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

DATA PACKAGE

VOLATILE ORGANICS

PROJECT NAME : CTO WE13

TETRA TECH NUS, INC.

661 Andersen Drive

Suite 200

Pittsburgh, PA - 15220-2745

Phone No: 412-921-7090

ORDER ID : Q1022

ATTENTION : Ernie Wu

Laboratory Certification ID # 20012

Table Of Contents for Q1022

1) VOLATILES DATA 2

2) Signature Page 4

3) Case Narrative 5

4) Qualifier Page 7

5) Conformance/Non Conformance 8

6) QA Checklist 10

7) Chronicle 11

8) Hit Summary 12

9) QC Data Summary For VOCMS Group1 13

- 9.1) Deuterated Monitoring Compound Summary 14
- 9.2) LCS/LCSD Summary 15
- 9.3) Method Blank Summary 17
- 9.4) GS/MS Tune Summary 18
- 9.5) Internal Standard Area and RT Summary 19

10) Sample Data 21

- 10.1) BP-VPB-190A-TB-20250103 22
- 10.2) BP-VPB-190A-DUP-20250103 36
- 10.3) BP-VPB-190A-GW-838-840 50
- 10.4) BP-VPB-190A-GW-858-860 64

11) Calibration Data Summary 78

- 11.1) Initial Calibration Data 79
  - 11.1.1) VX010725 79
- 11.2) Continued Calibration Data 450
  - 11.2.1) VX044613.D 450

12) QC Sample Data 510

- 12.1) Tune Raw Data 511
- 12.2) Method Blank Data 512
- 12.3) LCS Data 524
- 12.4) LCSD Data 578

13) Manual Integration 632

14) Analytical Runlogs 634

15) Standard Prep Logs 637

16) Shipping Document 754

- 16.1) Chain Of Custody 755
- 16.2) Lab Certificate 756

Table Of Contents for Q1022

16.3) Internal COC 757

17) Not Reviewed Data 758

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

Cover Page

Order ID : Q1022

Project ID : CTO WE13

Client : Tetra Tech NUS, Inc.

Lab Sample Number	Client Sample Number
Q1022-01	BP-VPB-190A-TB-20250103
Q1022-02	BP-VPB-190A-DUP-20250103
Q1022-03	BP-VPB-190A-GW-838-840
Q1022-04	BP-VPB-190A-GW-858-860

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 : APPROVED *By Nimisha Pandya, QA/QC Supervisor at 12:24 pm, Jan 15, 2025* Date: 1/10/2025

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: CTO WE13
Project Manager: Ernie Wu
Chemtech Project # Q1022
Test Name: VOCMS Group1

A. Number of Samples and Date of Receipt:
4 Water samples were received on 01/06/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: SVOC-SIMGroup1 and VOCMS Group1. This data package contains results for VOCMS Group1.

C. Analytical Techniques:
The analysis performed on instrument MSVOA_X were done using GC column DB-624UI 20m 0.18mm 1.0 um. Cat#121-1324UIThe analysis of VOCMS Group1 was based on method 8260D.

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

The RPD for {VX0107WBSD02} with File ID: VX044607.D met criteria except for 1,1,2,2-Tetrachloroethane[22%] due to difference in results of BS-BSD.

The Blank Spike met requirements for all samples .
The Blank Spike Duplicate met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.

The %RSD is greater than 20% in the Initial Calibration method (82X010725W.M) for Bromoform is passing on Quadratic Regression.

The Continuous Calibration met the requirements .
The Tuning criteria met requirements.

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

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

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 not QT review data is reported in the Miscellaneous.
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

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_____ **APPROVED**
By Nimisha Pandya, QA/QC Supervisor at 12:24 pm, Jan 15, 2025

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

CHEMTECH PROJECT NUMBER: Q1022 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 %RSD is greater than 20% in the Initial Calibration method (82X010725W.M) for Bromoform is passing on Quadratic Regression. The Continuous Calibration met the requirements .			✓
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. The Blank Spike met requirements for all samples . The Blank Spike Duplicate met requirements for all samples The RPD for {VX0107WBSD02} with File ID: VX044607.D met criteria except for 1,1,2,2-Tetrachloroethane[22%] due to difference in results of BS-BSD.		✓	
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:			✓

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

NA NO YES

ADDITIONAL COMMENTS:

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

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 not QT review data is reported in the Miscellaneous.

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 12:24 pm, Jan 15, 2025

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 #: Q1022

	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: MOHAMMAD AHMED **Date:** 01/10/2025

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

LAB CHRONICLE

OrderID:	Q1022	**OrderDate:**	1/6/2025 3:27:00 PM
Client:	Tetra Tech NUS, Inc.	**Project:**	CTO WE13
Contact:	Ernie Wu	**Location:**	N41,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1022-01	**BP-VPB-190A-TB-20250103**	**Water**			**01/03/25**			**01/06/25**
			VOCMS Group1	8260-Low			01/07/25	
Q1022-02	**BP-VPB-190A-DUP-20250103**	**Water**			**01/03/25**			**01/06/25**
			VOCMS Group1	8260-Low			01/07/25	
Q1022-03	**BP-VPB-190A-GW-838-840**	**Water**			**01/03/25**			**01/06/25**
			VOCMS Group1	8260-Low			01/07/25	
Q1022-04	**BP-VPB-190A-GW-858-860**	**Water**			**01/03/25**			**01/06/25**
			VOCMS Group1	8260-Low			01/07/25	

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

Hit Summary Sheet
SW-846

SDG No.: Q1022

Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID:	**BP-VPB-190A-TB-20250103**								
Q1022-01	BP-VPB-190A-TB-	Water	Acetone	1.50	J	1.40	3.80	5.00	ug/L
			Total Voc :	1.50					
			Total Concentration:	1.50					
Client ID:	**BP-VPB-190A-DUP-20250103**								
Q1022-02	BP-VPB-190A-DUI	Water	Acetone	4.00	J	1.40	3.80	5.00	ug/L
			Total Voc :	4.00					
			Total Concentration:	4.00					
Client ID:	**BP-VPB-190A-GW-838-840**								
Q1022-03	BP-VPB-190A-GW	Water	Acetone	6.30		1.40	3.80	5.00	ug/L
			Total Voc :	6.30					
			Total Concentration:	6.30					
Client ID:	**BP-VPB-190A-GW-858-860**								
Q1022-04	BP-VPB-190A-GW	Water	Acetone	3.70	J	1.40	3.80	5.00	ug/L
			Total Voc :	3.70					
			Total Concentration:	3.70					

QC SUMMARY

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

Surrogate Summary

SDG No.: Q1022

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
Q1022-01	BP-VPB-190A-TB-20250103	1,2-Dichloroethane-d4	50	50.5	101	81	118
		Dibromofluoromethane	50	47.5	95	80	119
		Toluene-d8	50	50.9	102	89	112
		4-Bromofluorobenzene	50	51.8	104	85	114
Q1022-02	BP-VPB-190A-DUP-20250103	1,2-Dichloroethane-d4	50	51.3	103	81	118
		Dibromofluoromethane	50	47.1	94	80	119
		Toluene-d8	50	51.7	103	89	112
		4-Bromofluorobenzene	50	52.4	105	85	114
Q1022-03	BP-VPB-190A-GW-838-840	1,2-Dichloroethane-d4	50	50.3	101	81	118
		Dibromofluoromethane	50	47.5	95	80	119
		Toluene-d8	50	51.3	103	89	112
		4-Bromofluorobenzene	50	51.7	103	85	114
Q1022-04	BP-VPB-190A-GW-858-860	1,2-Dichloroethane-d4	50	50.5	101	81	118
		Dibromofluoromethane	50	45.8	92	80	119
		Toluene-d8	50	50.9	102	89	112
		4-Bromofluorobenzene	50	49.5	99	85	114
VX0107WBL01	VX0107WBL01	1,2-Dichloroethane-d4	50	50.6	101	81	118
		Dibromofluoromethane	50	47.1	94	80	119
		Toluene-d8	50	49.5	99	89	112
		4-Bromofluorobenzene	50	47.6	95	85	114
VX0107WBS02	VX0107WBS02	1,2-Dichloroethane-d4	50	50.2	100	81	118
		Dibromofluoromethane	50	48.5	97	80	119
		Toluene-d8	50	49.3	99	89	112
		4-Bromofluorobenzene	50	50.5	101	85	114
VX0107WBSD0	VX0107WBSD02	1,2-Dichloroethane-d4	50	49.7	99	81	118
		Dibromofluoromethane	50	46.3	93	80	119
		Toluene-d8	50	47.5	95	89	112
		4-Bromofluorobenzene	50	48.4	97	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.: Q1022

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260-Low **Datafile :** VX044606.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0107WBS02	Chloromethane	20	17.3	ug/L	86			50	139	
	Vinyl chloride	20	18.2	ug/L	91			58	137	
	Bromomethane	20	18.0	ug/L	90			53	141	
	Chloroethane	20	17.6	ug/L	88			60	138	
	Trichlorofluoromethane	20	19.5	ug/L	98			65	141	
	1,1,2-Trichlorotrifluoroethane	20	18.4	ug/L	92			70	136	
	1,1-Dichloroethene	20	17.7	ug/L	89			71	131	
	Acetone	100	110	ug/L	110			39	160	
	Carbon disulfide	20	17.6	ug/L	88			64	133	
	Methyl tert-butyl Ether	20	18.8	ug/L	94			71	124	
	Methylene Chloride	20	17.5	ug/L	88			74	124	
	trans-1,2-Dichloroethene	20	17.8	ug/L	89			75	124	
	1,1-Dichloroethane	20	18.0	ug/L	90			77	125	
	2-Butanone	100	110	ug/L	110			56	143	
	Carbon Tetrachloride	20	17.9	ug/L	90			72	136	
	cis-1,2-Dichloroethene	20	17.6	ug/L	88			78	123	
	Chloroform	20	17.8	ug/L	89			79	124	
	1,1,1-Trichloroethane	20	18.9	ug/L	95			74	131	
	Methylcyclohexane	20	18.7	ug/L	94			72	132	
	Benzene	20	17.6	ug/L	88			79	120	
	1,2-Dichloroethane	20	18.9	ug/L	95			73	128	
	Trichloroethene	20	16.8	ug/L	84			79	123	
	1,2-Dichloropropane	20	18.0	ug/L	90			78	122	
	Bromodichloromethane	20	18.6	ug/L	93			79	125	
	4-Methyl-2-Pentanone	100	100	ug/L	100			67	130	
	Toluene	20	18.4	ug/L	92			80	121	
	t-1,3-Dichloropropene	20	19.3	ug/L	97			73	127	
	cis-1,3-Dichloropropene	20	18.6	ug/L	93			75	124	
	1,1,2-Trichloroethane	20	18.3	ug/L	92			80	119	
	2-Hexanone	100	110	ug/L	110			57	139	
	Dibromochloromethane	20	18.4	ug/L	92			74	126	
	Tetrachloroethene	20	17.3	ug/L	86			74	129	
	Chlorobenzene	20	18.3	ug/L	92			82	118	
	Ethyl Benzene	20	18.8	ug/L	94			79	121	
	m/p-Xylenes	40	38.0	ug/L	95			80	121	
	o-Xylene	20	18.3	ug/L	92			78	122	
	Styrene	20	18.9	ug/L	95			78	123	
	Bromoform	20	17.8	ug/L	89			66	130	
	Isopropylbenzene	20	17.2	ug/L	86			72	131	
	1,1,2,2-Tetrachloroethane	20	17.1	ug/L	86			71	121	
	1,3-Dichlorobenzene	20	18.5	ug/L	93			80	119	
	1,4-Dichlorobenzene	20	17.8	ug/L	89			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.: Q1022

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260-Low **Datafile :** VX044607.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0107WBSD02	Chloromethane	20	20.1	ug/L	101	16		50	139	20
	Vinyl chloride	20	19.4	ug/L	97	6		58	137	20
	Bromomethane	20	20.2	ug/L	101	12		53	141	20
	Chloroethane	20	19.5	ug/L	98	11		60	138	20
	Trichlorofluoromethane	20	20.3	ug/L	102	4		65	141	20
	1,1,2-Trichlorotrifluoroethane	20	19.3	ug/L	97	5		70	136	20
	1,1-Dichloroethene	20	18.8	ug/L	94	5		71	131	20
	Acetone	100	120	ug/L	120	9		39	160	20
	Carbon disulfide	20	18.9	ug/L	95	8		64	133	20
	Methyl tert-butyl Ether	20	21.3	ug/L	106	12		71	124	20
	Methylene Chloride	20	19.7	ug/L	99	12		74	124	20
	trans-1,2-Dichloroethene	20	19.3	ug/L	97	9		75	124	20
	1,1-Dichloroethane	20	20.4	ug/L	102	13		77	125	20
	2-Butanone	100	120	ug/L	120	9		56	143	20
	Carbon Tetrachloride	20	19.0	ug/L	95	5		72	136	20
	cis-1,2-Dichloroethene	20	19.6	ug/L	98	11		78	123	20
	Chloroform	20	20.4	ug/L	102	14		79	124	20
	1,1,1-Trichloroethane	20	21.1	ug/L	106	11		74	131	20
	Methylcyclohexane	20	19.1	ug/L	96	2		72	132	20
	Benzene	20	19.3	ug/L	97	10		79	120	20
	1,2-Dichloroethane	20	21.3	ug/L	106	11		73	128	20
	Trichloroethene	20	18.5	ug/L	93	10		79	123	20
	1,2-Dichloropropane	20	20.5	ug/L	103	13		78	122	20
	Bromodichloromethane	20	20.6	ug/L	103	10		79	125	20
	4-Methyl-2-Pentanone	100	120	ug/L	120	18		67	130	20
	Toluene	20	20.3	ug/L	102	10		80	121	20
	t-1,3-Dichloropropene	20	20.8	ug/L	104	7		73	127	20
	cis-1,3-Dichloropropene	20	20.4	ug/L	102	9		75	124	20
	1,1,2-Trichloroethane	20	20.7	ug/L	104	12		80	119	20
	2-Hexanone	100	120	ug/L	120	9		57	139	20
	Dibromochloromethane	20	20.0	ug/L	100	8		74	126	20
	Tetrachloroethene	20	18.6	ug/L	93	8		74	129	20
	Chlorobenzene	20	19.9	ug/L	100	8		82	118	20
	Ethyl Benzene	20	20.2	ug/L	101	7		79	121	20
	m/p-Xylenes	40	40.8	ug/L	102	7		80	121	20
	o-Xylene	20	20.0	ug/L	100	8		78	122	20
	Styrene	20	20.5	ug/L	103	8		78	123	20
	Bromoform	20	20.2	ug/L	101	13		66	130	20
	Isopropylbenzene	20	20.9	ug/L	104	19		72	131	20
	1,1,2,2-Tetrachloroethane	20	21.4	ug/L	107	22	*	71	121	20
	1,3-Dichlorobenzene	20	20.5	ug/L	103	10		80	119	20
	1,4-Dichlorobenzene	20	19.3	ug/L	97	9		79	118	20
	1,2-Dichlorobenzene	20	20.1	ug/L	101	9		80	119	20

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

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX0107WBL01

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1022 SAS No.: Q1022 SDG NO.: Q1022

Lab File ID: VX044604.D Lab Sample ID: VX0107WBL01

Date Analyzed: 01/07/2025 Time Analyzed: 16:06

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

Instrument ID: MSVOA_X

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VX0107WBS02	VX0107WBS02	VX044606.D	01/07/2025
VX0107WBSD02	VX0107WBSD02	VX044607.D	01/07/2025
BP-VPB-190A-TB-20250103	Q1022-01	VX044609.D	01/07/2025
BP-VPB-190A-GW-838-840	Q1022-03	VX044610.D	01/07/2025
BP-VPB-190A-GW-858-860	Q1022-04	VX044611.D	01/07/2025
BP-VPB-190A-DUP-20250103	Q1022-02	VX044612.D	01/07/2025

COMMENTS:

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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1022 SAS No.: Q1022 SDG NO.: Q1022

Lab File ID: VX044595.D BFB Injection Date: 01/07/2025

Instrument ID: MSVOA_X BFB Injection Time: 09:14

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.7
75	30.0 - 60.0% of mass 95	53.5
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.1
173	Less than 2.0% of mass 174	0.7 (1) 1
174	50.0 - 100.0% of mass 95	71.5
175	5.0 - 9.0% of mass 174	5.7 (8) 1
176	95.0 - 101.0% of mass 174	70.2 (98.2) 1
177	5.0 - 9.0% of mass 176	4.6 (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:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC001	VSTDICC001	VX044596.D	01/07/2025	10:06
VSTDICC005	VSTDICC005	VX044597.D	01/07/2025	10:29
VSTDICC020	VSTDICC020	VX044598.D	01/07/2025	10:51
VSTDICCC050	VSTDICCC050	VX044599.D	01/07/2025	11:14
VSTDICC100	VSTDICC100	VX044600.D	01/07/2025	11:37
VSTDICC150	VSTDICC150	VX044601.D	01/07/2025	12:00
VX0107WBL01	VX0107WBL01	VX044604.D	01/07/2025	16:06
VX0107WBS02	VX0107WBS02	VX044606.D	01/07/2025	16:57
VX0107WBSD02	VX0107WBSD02	VX044607.D	01/07/2025	17:19
BP-VPB-190A-TB-20250103	Q1022-01	VX044609.D	01/07/2025	18:05
BP-VPB-190A-GW-838-840	Q1022-03	VX044610.D	01/07/2025	18:28
BP-VPB-190A-GW-858-860	Q1022-04	VX044611.D	01/07/2025	18:51
BP-VPB-190A-DUP-20250103	Q1022-02	VX044612.D	01/07/2025	19:14
VSTDCCC050EC	VSTDCCC050	VX044613.D	01/07/2025	19:37

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1022 SAS No.: Q1022 SDG NO.: Q1022

Lab File ID: VX044599.D Date Analyzed: 01/07/2025

Instrument ID: MSVOA_X Time Analyzed: 11:14

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	173796	5.54	298796	6.76	260263	10.05
UPPER LIMIT	347592	6.044	597592	7.257	520526	10.549
LOWER LIMIT	86898	5.044	149398	6.257	130132	9.549
EPA SAMPLE NO.						
BP-VPB-190A-TB-20250103	176098	5.54	318982	6.76	290099	10.05
BP-VPB-190A-DUP-20250103	172596	5.54	314042	6.76	292342	10.05
BP-VPB-190A-GW-838-840	188583	5.54	335673	6.76	308993	10.05
BP-VPB-190A-GW-858-860	178481	5.54	326468	6.76	293289	10.05
VX0107WBL01	173540	5.54	316021	6.75	270881	10.05
VX0107WBS02	220733	5.54	377450	6.75	324333	10.05
VX0107WBSD02	171730	5.54	300759	6.76	266797	10.05

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

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

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

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1022 SAS No.: Q1022 SDG NO.: Q1022

Lab File ID: VX044599.D Date Analyzed: 01/07/2025

Instrument ID: MSVOA_X Time Analyzed: 11:14

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

	IS4 AREA #	RT #				
12 HOUR STD	121154	12.018				
UPPER LIMIT	242308	12.518				
LOWER LIMIT	60577	11.518				
EPA SAMPLE NO.						
BP-VPB-190A-TB-20250103	127980	12.02				
BP-VPB-190A-DUP-20250103	123056	12.02				
BP-VPB-190A-GW-838-840	131138	12.02				
BP-VPB-190A-GW-858-860	119305	12.02				
VX0107WBL01	109213	12.02				
VX0107WBS02	167120	12.02				
VX0107WBSD02	120544	12.02				

IS4 = 1,4-Dichlorobenzene-d4

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

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

SAMPLE DATA

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:	01/03/25
Project:	CTO WE13	Date Received:	01/06/25
Client Sample ID:	BP-VPB-190A-TB-20250103	SDG No.:	Q1022
Lab Sample ID:	Q1022-01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044609.D	1		01/07/25 18:05	VX010725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.26	0.75	1.00	ug/L
67-64-1	Acetone	1.50	J	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.25	0.75	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L

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:	01/03/25
Project:	CTO WE13	Date Received:	01/06/25
Client Sample ID:	BP-VPB-190A-TB-20250103	SDG No.:	Q1022
Lab Sample ID:	Q1022-01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044609.D	1		01/07/25 18:05	VX010725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	50.5		81 - 118		101%	SPK: 50
1868-53-7	Dibromofluoromethane	47.5		80 - 119		95%	SPK: 50
2037-26-5	Toluene-d8	50.9		89 - 112		102%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.8		85 - 114		104%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	176000	5.544				
540-36-3	1,4-Difluorobenzene	319000	6.757				
3114-55-4	Chlorobenzene-d5	290000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	128000	12.018				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.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:	01/03/25
Project:	CTO WE13	Date Received:	01/06/25
Client Sample ID:	BP-VPB-190A-TB-20250103	SDG No.:	Q1022
Lab Sample ID:	Q1022-01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044609.D	1		01/07/25 18:05	VX010725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044609.D
Acq On : 07 Jan 2025 18:05
Operator : JC/MD
Sample : Q1022-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-TB-20250103

Quant Time: Jan 08 05:56:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 03:57:12 2025
Response via : Initial Calibration

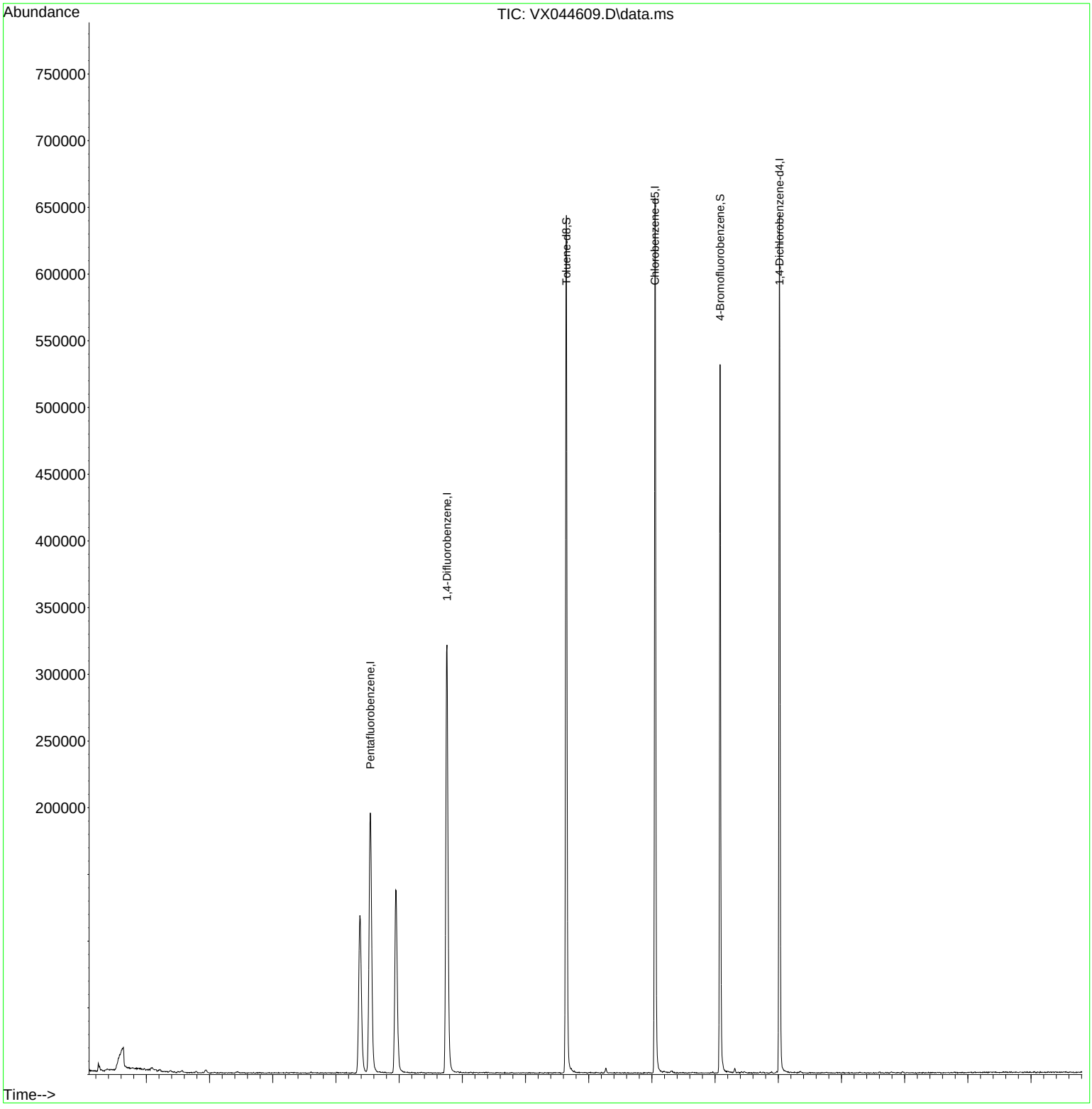
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	176098	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	318982	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	290099	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	127980	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	143405	50.506	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 101.020%			
35) Dibromofluoromethane	5.385	113	103794	47.453	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 94.900%			
50) Toluene-d8	8.647	98	380100	50.874	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.740%			
62) 4-Bromofluorobenzene	11.079	95	136590	51.795	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 103.600%			
Target Compounds						Qvalue
16) Acetone	2.386	43	1342	1.500	ug/l	96

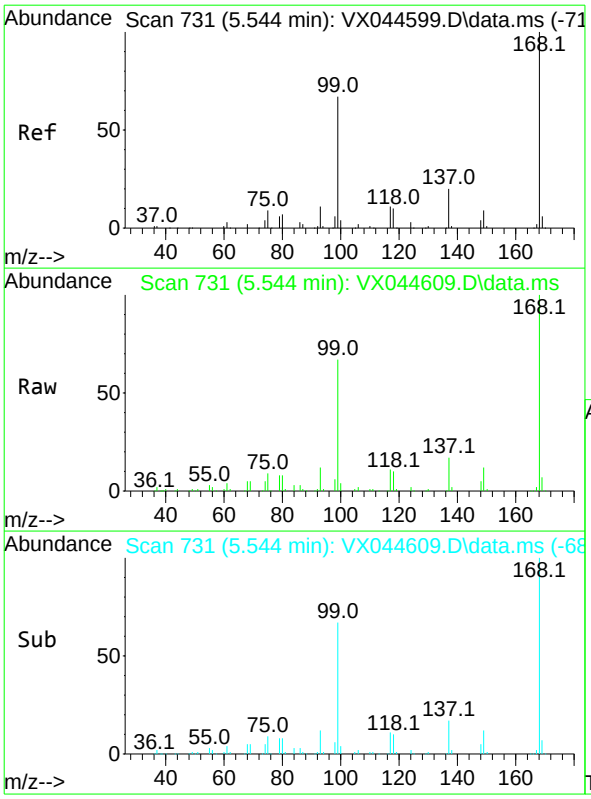
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044609.D
Acq On : 07 Jan 2025 18:05
Operator : JC/MD
Sample : Q1022-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-TB-20250103

Quant Time: Jan 08 05:56:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 03:57:12 2025
Response via : Initial Calibration



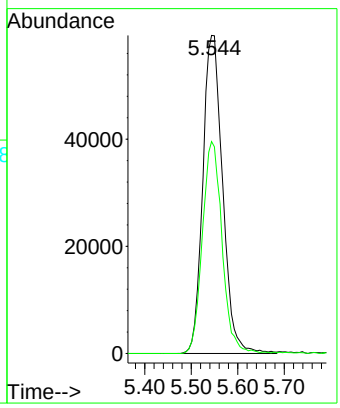


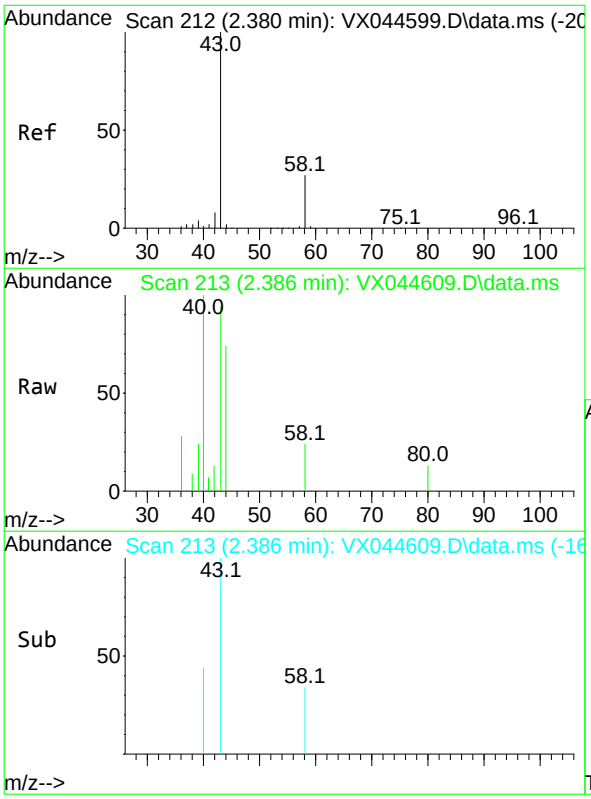
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 73
Delta R.T. -0.000 min
Lab File: VX044609.D
Acq: 07 Jan 2025 18:05

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-TB-20250103

Tgt Ion:168 Resp: 176098

Ion	Ratio	Lower	Upper
168	100		
99	66.6	53.5	80.3

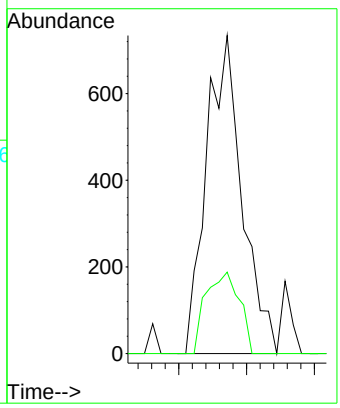


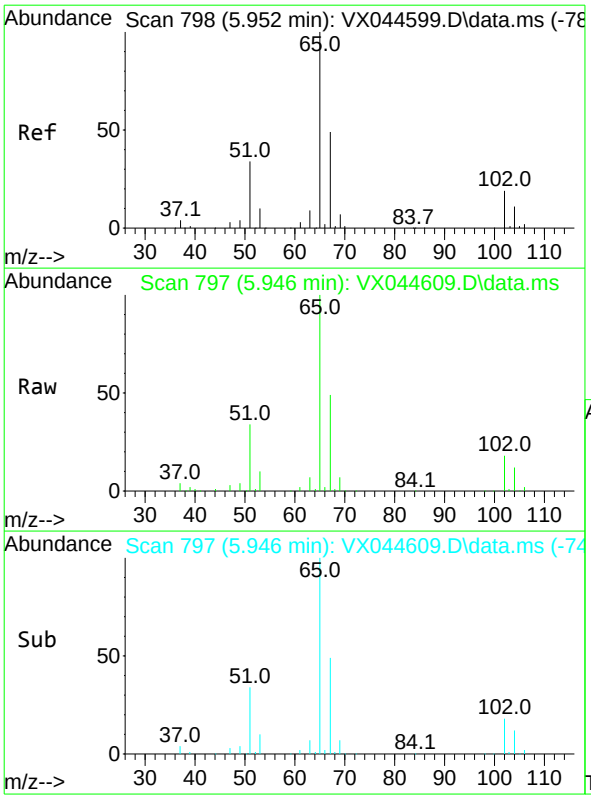


#16
Acetone
Concen: 1.500 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.006 min
Lab File: VX044609.D
Acq: 07 Jan 2025 18:05

Tgt Ion: 43 Resp: 1342

Ion	Ratio	Lower	Upper
43	100		
58	25.6	22.0	33.0



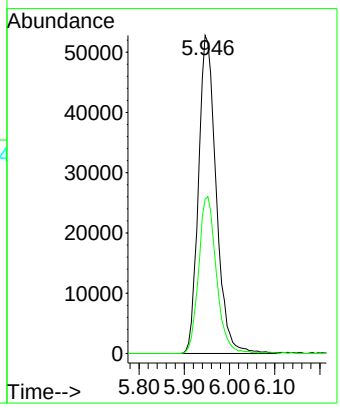


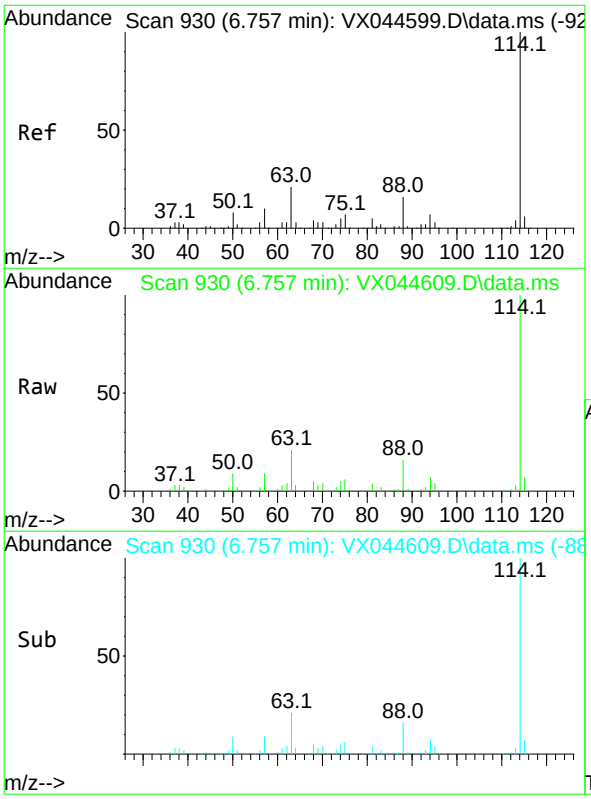
#33
1,2-Dichloroethane-d4
Concen: 50.506 ug/l
RT: 5.946 min Scan# 79
Delta R.T. -0.006 min
Lab File: VX044609.D
Acq: 07 Jan 2025 18:05

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-TB-20250103

Tgt Ion: 65 Resp: 143405

Ion	Ratio	Lower	Upper
65	100		
67	49.5	0.0	99.0

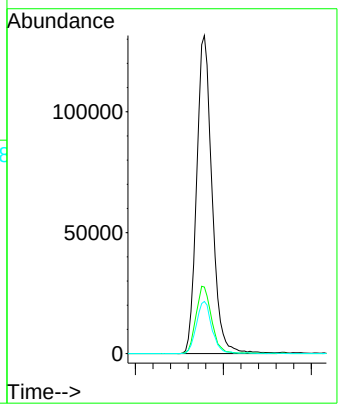


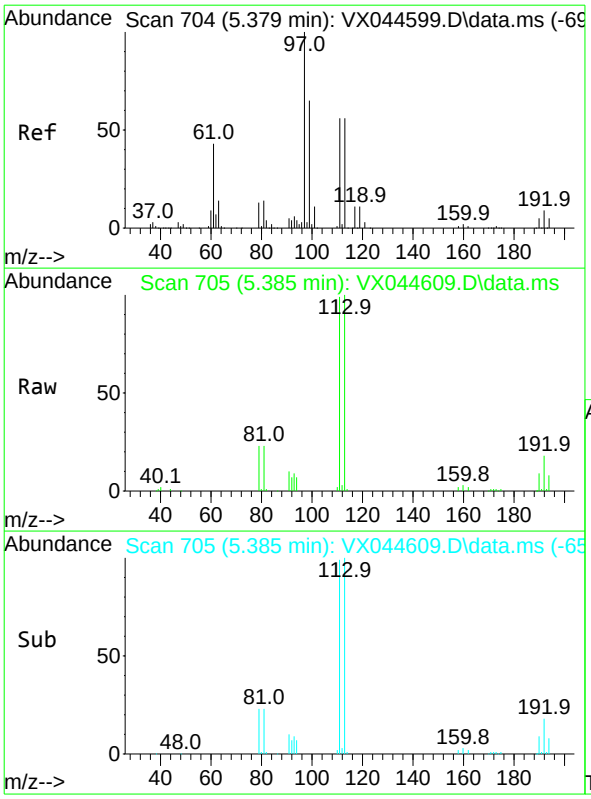


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044609.D
Acq: 07 Jan 2025 18:05

Tgt Ion:114 Resp: 318982

Ion	Ratio	Lower	Upper
114	100		
63	20.9	0.0	42.6
88	16.4	0.0	32.6



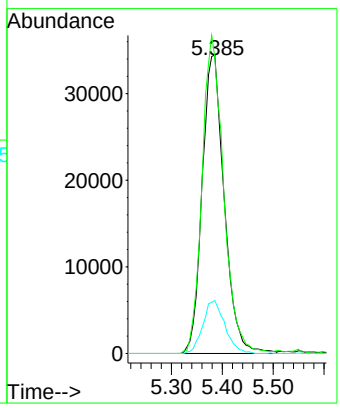


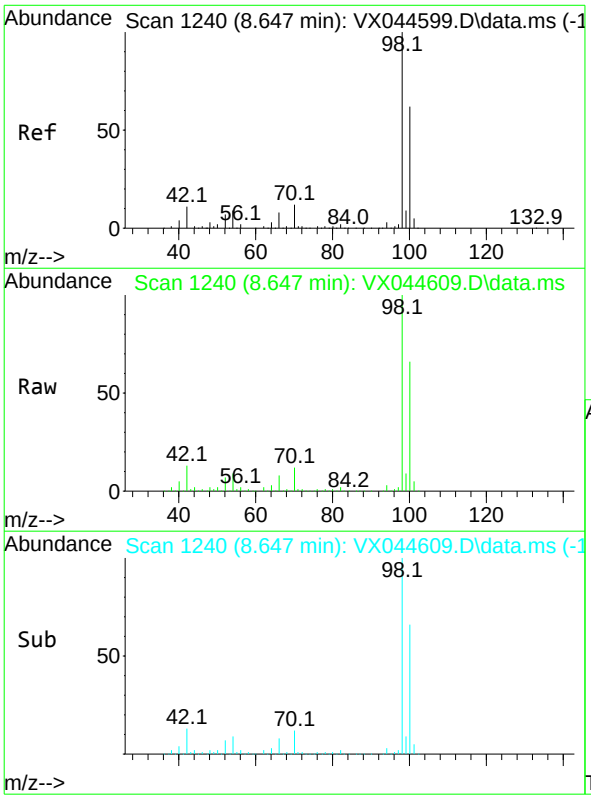
#35
Dibromofluoromethane
Concen: 47.453 ug/l
RT: 5.385 min Scan# 70
Delta R.T. 0.006 min
Lab File: VX044609.D
Acq: 07 Jan 2025 18:05

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-TB-20250103

Tgt Ion:113 Resp: 103794

Ion	Ratio	Lower	Upper
113	100		
111	103.8	83.3	124.9
192	17.7	14.3	21.5

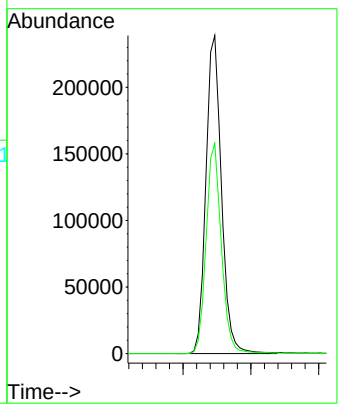


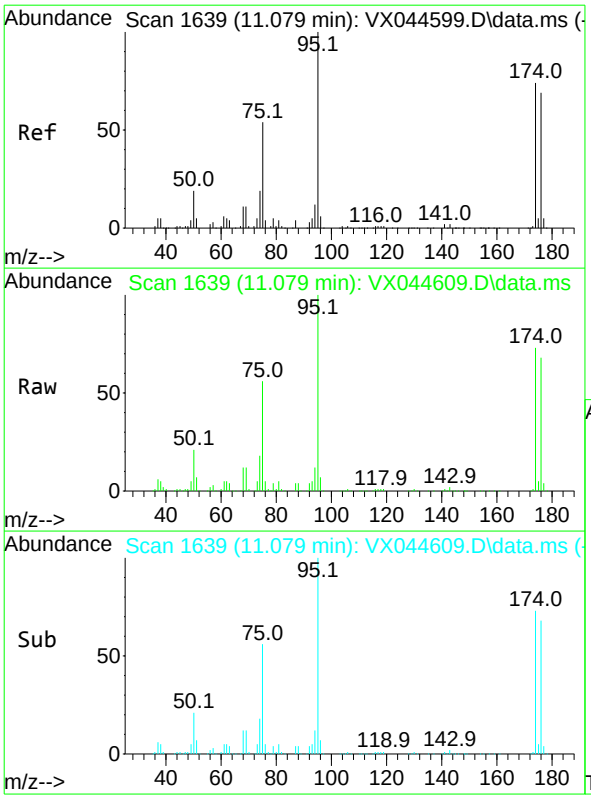


#50
Toluene-d8
Concen: 50.874 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX044609.D
Acq: 07 Jan 2025 18:05

Tgt Ion: 98 Resp: 380100

Ion	Ratio	Lower	Upper
98	100		
100	64.4	52.5	78.7



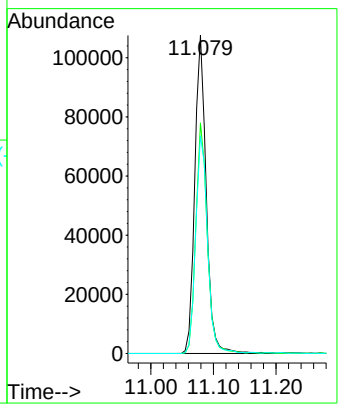


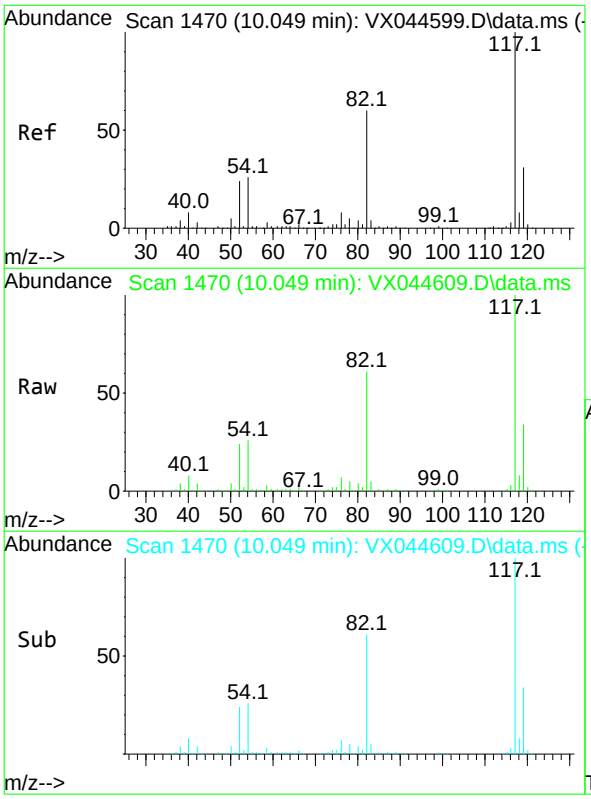
#62
4-Bromofluorobenzene
Concen: 51.795 ug/l
RT: 11.079 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044609.D
Acq: 07 Jan 2025 18:05

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-TB-20250103

Tgt Ion: 95 Resp: 136590

Ion	Ratio	Lower	Upper
95	100		
174	72.6	0.0	148.8
176	70.8	0.0	139.8

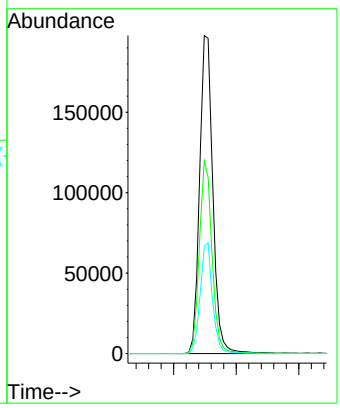


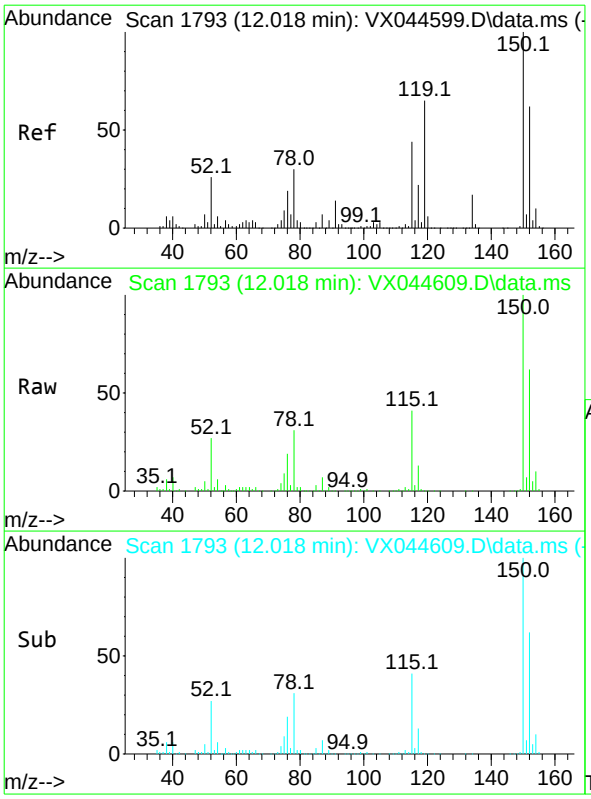


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. -0.000 min
Lab File: VX044609.D
Acq: 07 Jan 2025 18:05

Tgt Ion:117 Resp: 290099

Ion	Ratio	Lower	Upper
117	100		
82	60.7	47.8	71.6
119	33.7	25.0	37.6



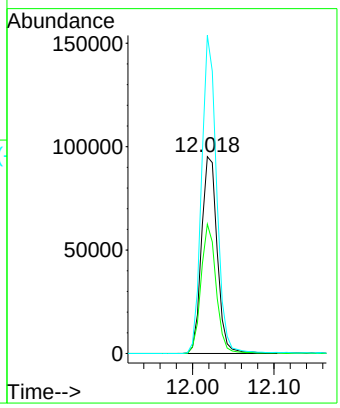


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044609.D
Acq: 07 Jan 2025 18:05

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-TB-20250103

Tgt Ion:152 Resp: 127980

Ion	Ratio	Lower	Upper
152	100		
115	63.0	44.4	133.1
150	154.0	0.0	355.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044609.D
Acq On : 07 Jan 2025 18:05
Operator : JC/MD
Sample : Q1022-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-TB-20250103

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\82X010725W.M
Title : SW846 8260

Signal : TIC: VX044608.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.575	67	80	81	rBV3	11717	29842	2.89%	0.535%
2	5.379	694	704	720	rBV	118167	353792	34.29%	6.338%
3	5.544	720	731	751	rVB	194490	569168	55.16%	10.196%
4	5.946	789	797	818	rBV	136909	374682	36.31%	6.712%
5	6.757	921	930	950	rBV	320820	781231	75.72%	13.996%
6	8.647	1233	1240	1251	rBV	642535	1031782	100.00%	18.484%
7	10.049	1465	1470	1484	rBV	655684	939139	91.02%	16.824%
8	11.079	1634	1639	1654	rBV	530793	680004	65.91%	12.182%
9	12.018	1788	1793	1805	rBV	642354	822366	79.70%	14.732%

Sum of corrected areas: 5582006

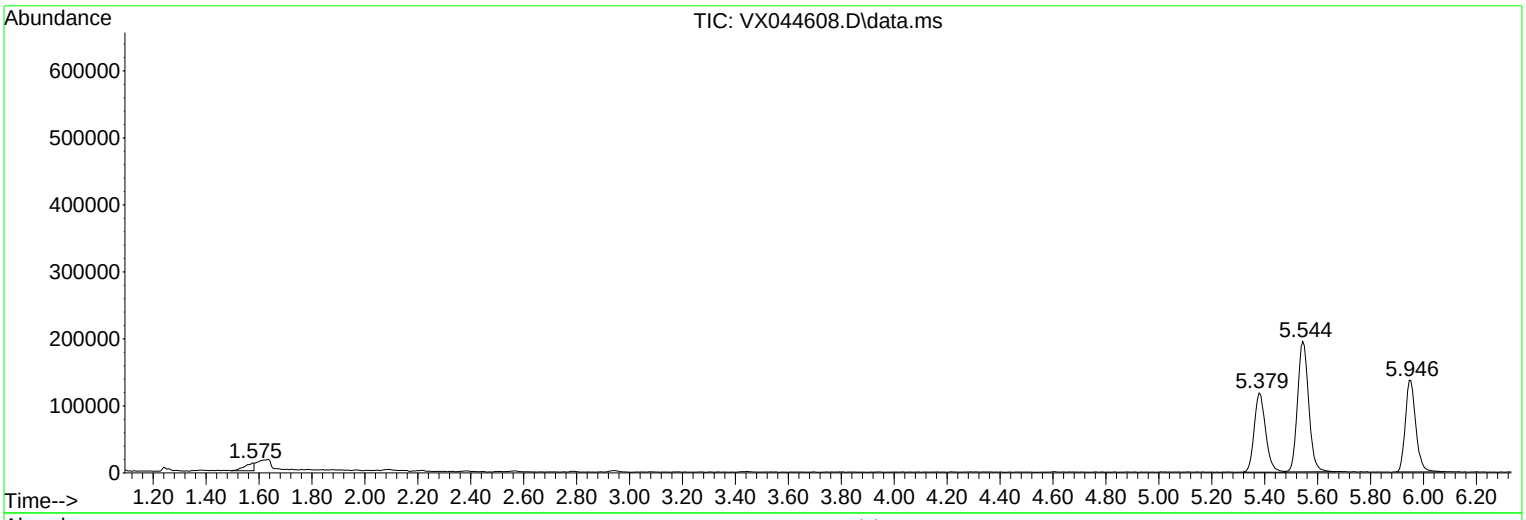
Sample Results: **VX044609.D**

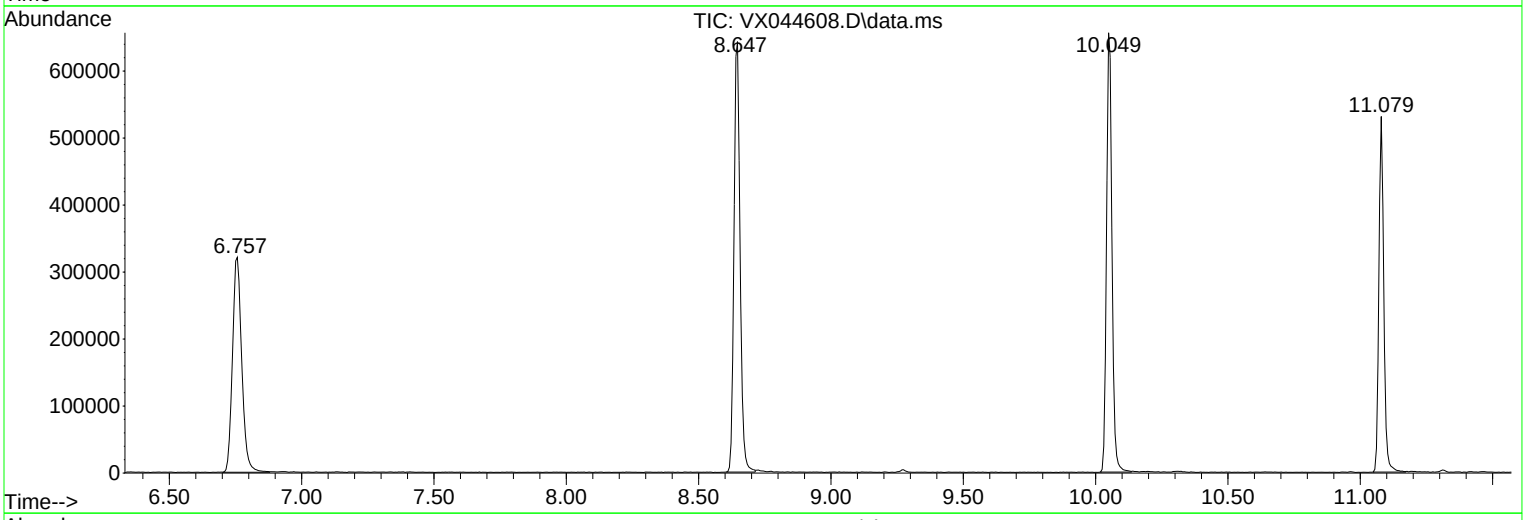
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044609.D
Acq On : 07 Jan 2025 18:05
Operator : JC/MD
Sample : Q1022-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

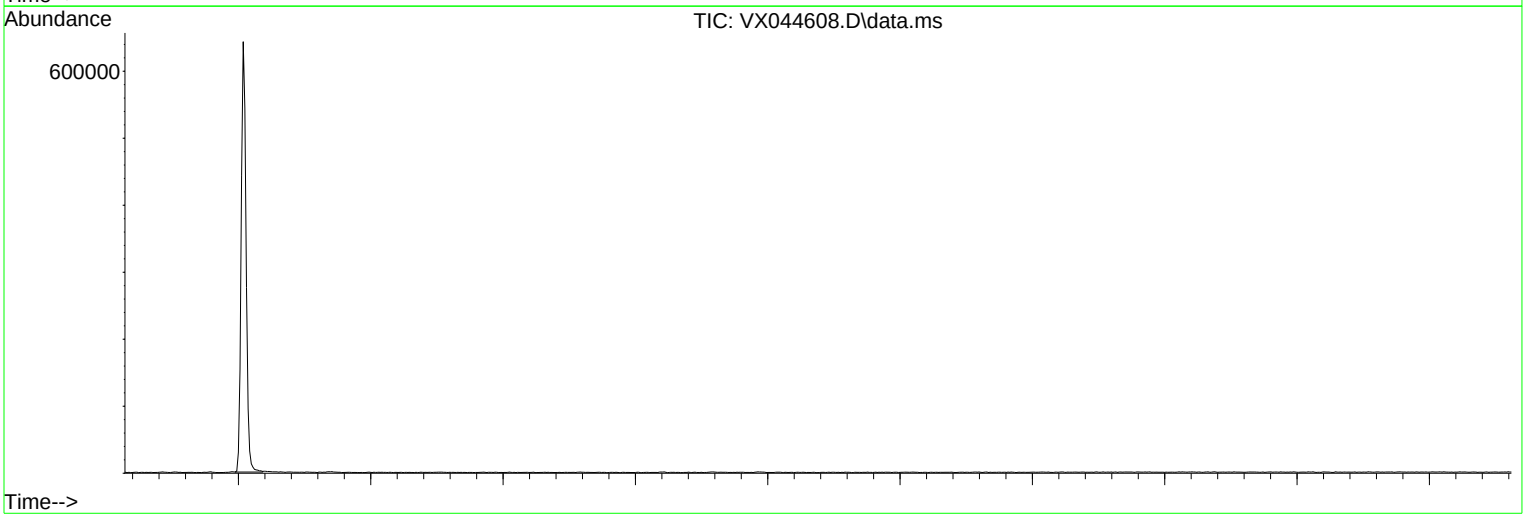
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-TB-20250103

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260

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







Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044609.D
Acq On : 07 Jan 2025 18:05
Operator : JC/MD
Sample : Q1022-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-TB-20250103

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.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\VX010725\
Data File : VX044609.D
Acq On : 07 Jan 2025 18:05
Operator : JC/MD
Sample : Q1022-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-TB-20250103

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.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

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:	01/03/25
Project:	CTO WE13	Date Received:	01/06/25
Client Sample ID:	BP-VPB-190A-DUP-20250103	SDG No.:	Q1022
Lab Sample ID:	Q1022-02	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044612.D	1		01/07/25 19:14	VX010725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.26	0.75	1.00	ug/L
67-64-1	Acetone	4.00	J	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.25	0.75	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L

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:	01/03/25
Project:	CTO WE13	Date Received:	01/06/25
Client Sample ID:	BP-VPB-190A-DUP-20250103	SDG No.:	Q1022
Lab Sample ID:	Q1022-02	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044612.D	1		01/07/25 19:14	VX010725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	51.3		81 - 118		103%	SPK: 50
1868-53-7	Dibromofluoromethane	47.1		80 - 119		94%	SPK: 50
2037-26-5	Toluene-d8	51.7		89 - 112		103%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.4		85 - 114		105%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	173000	5.544				
540-36-3	1,4-Difluorobenzene	314000	6.757				
3114-55-4	Chlorobenzene-d5	292000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	123000	12.018				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.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:	01/03/25
Project:	CTO WE13	Date Received:	01/06/25
Client Sample ID:	BP-VPB-190A-DUP-20250103	SDG No.:	Q1022
Lab Sample ID:	Q1022-02	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044612.D	1		01/07/25 19:14	VX010725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044612.D
Acq On : 07 Jan 2025 19:14
Operator : JC/MD
Sample : Q1022-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-DUP-20250103

Quant Time: Jan 08 05:57:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 03:57:12 2025
Response via : Initial Calibration

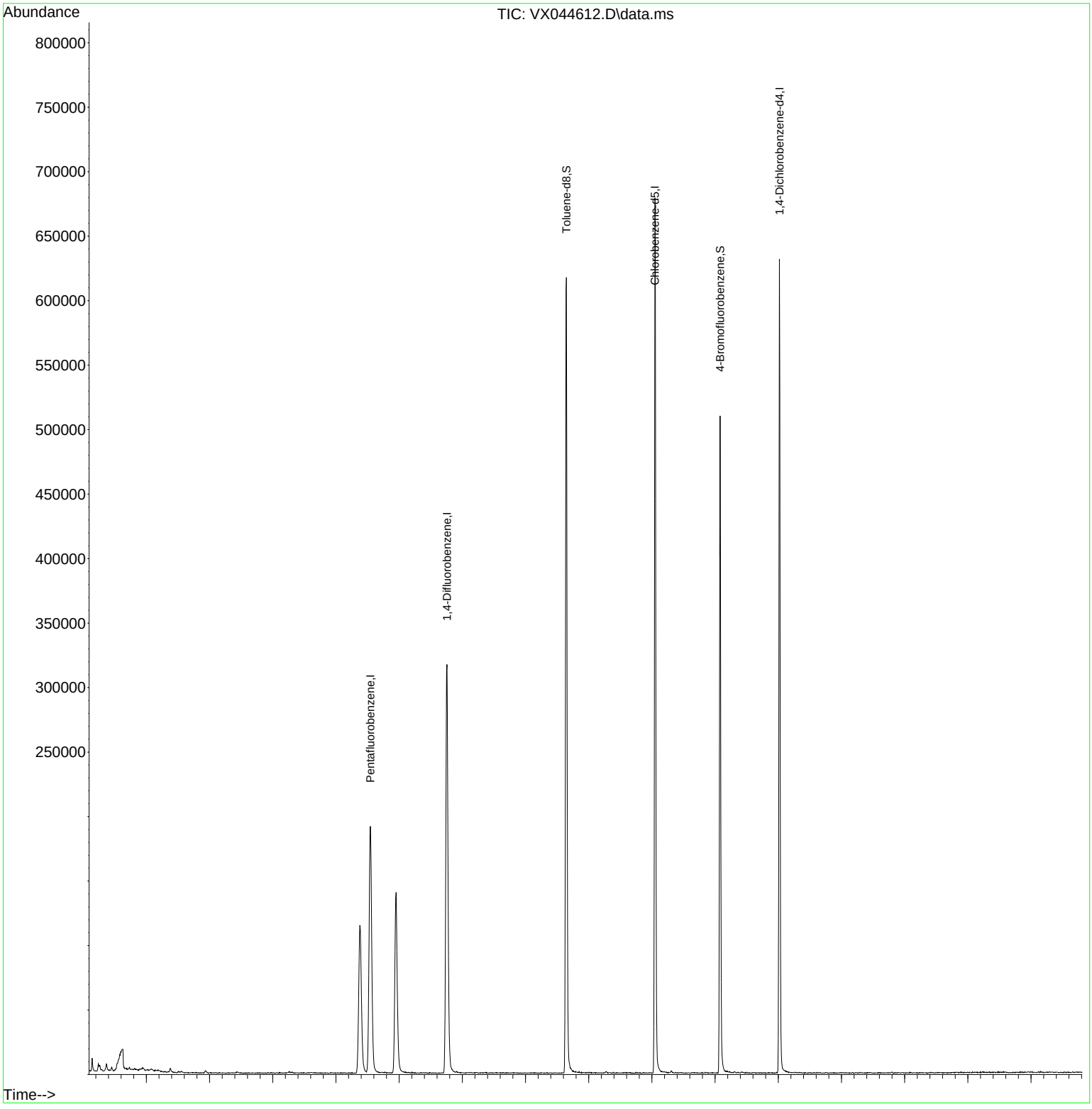
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	172596	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	314042	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	292342	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	123056	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	142884	51.343	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 102.680%			
35) Dibromofluoromethane	5.379	113	101480	47.125	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 94.240%			
50) Toluene-d8	8.647	98	380394	51.714	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 103.420%			
62) 4-Bromofluorobenzene	11.079	95	136144	52.438	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 104.880%			
Target Compounds						Qvalue
16) Acetone	2.380	43	3541	4.037	ug/l #	83

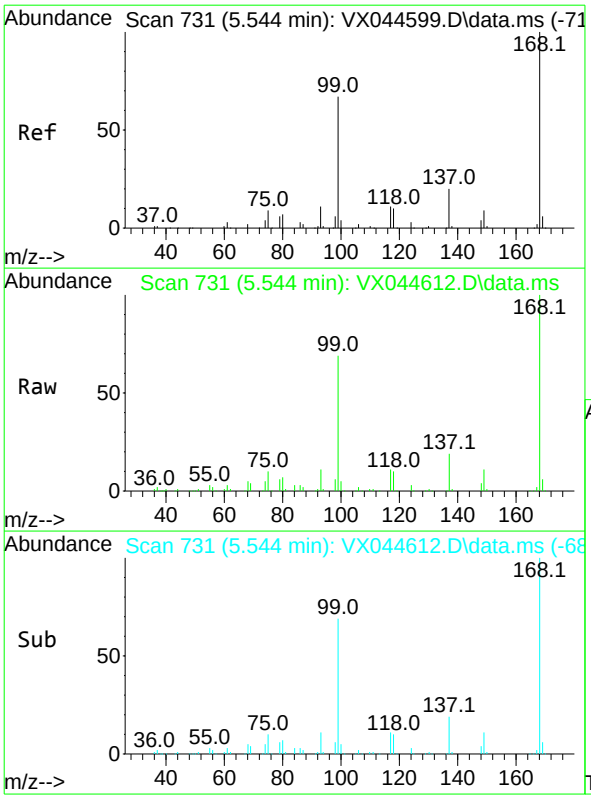
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044612.D
Acq On : 07 Jan 2025 19:14
Operator : JC/MD
Sample : Q1022-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-DUP-20250103

Quant Time: Jan 08 05:57:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 03:57:12 2025
Response via : Initial Calibration



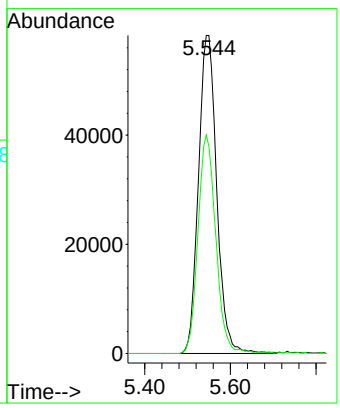


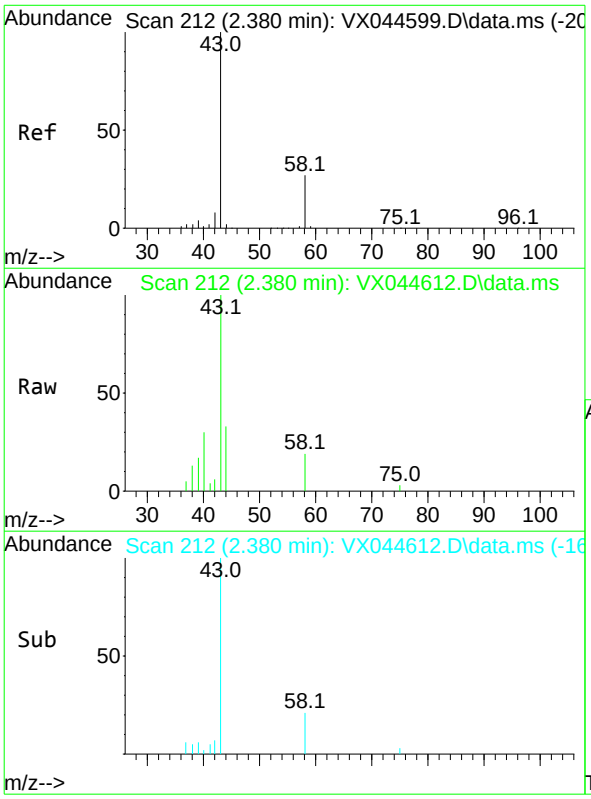
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 73
Delta R.T. -0.000 min
Lab File: VX044612.D
Acq: 07 Jan 2025 19:14

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-DUP-20250103

Tgt Ion:168 Resp: 172596

Ion	Ratio	Lower	Upper
168	100		
99	68.7	53.5	80.3

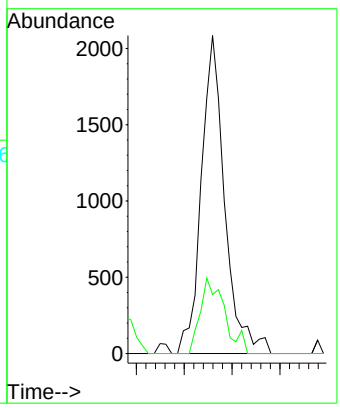


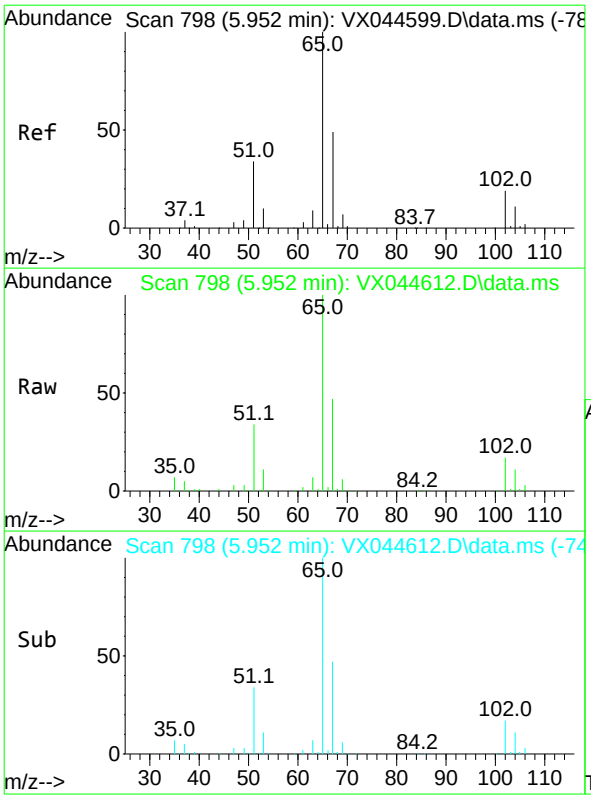


#16
Acetone
Concen: 4.037 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.000 min
Lab File: VX044612.D
Acq: 07 Jan 2025 19:14

Tgt Ion: 43 Resp: 3541

Ion	Ratio	Lower	Upper
43	100		
58	18.6	22.0	33.0#



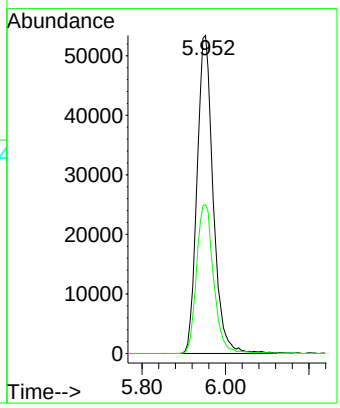


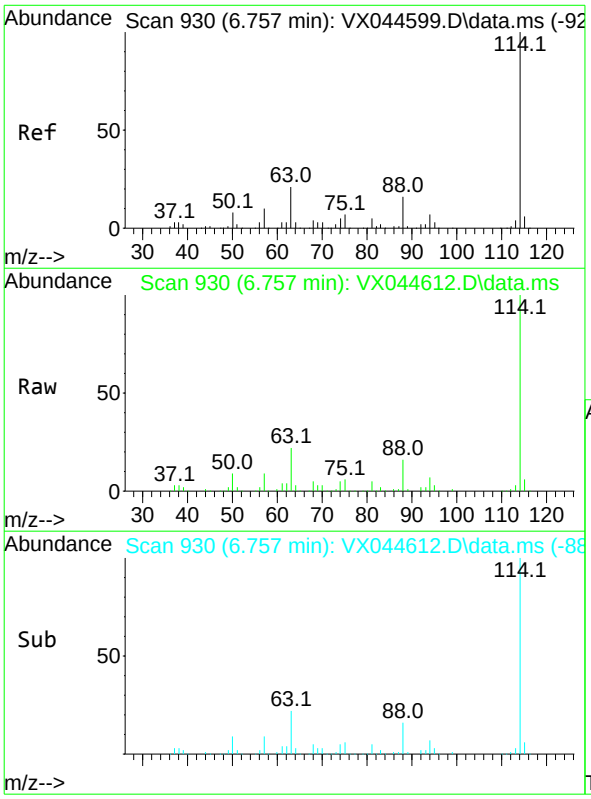
#33
1,2-Dichloroethane-d4
Concen: 51.343 ug/l
RT: 5.952 min Scan# 79
Delta R.T. -0.000 min
Lab File: VX044612.D
Acq: 07 Jan 2025 19:14

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-DUP-20250103

Tgt Ion: 65 Resp: 142884

Ion	Ratio	Lower	Upper
65	100		
67	49.5	0.0	99.0

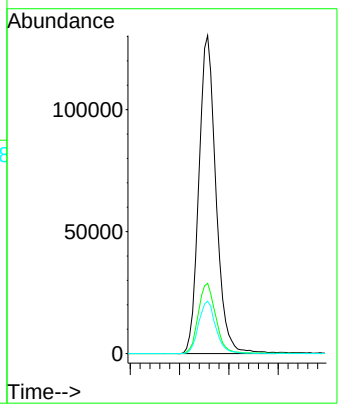


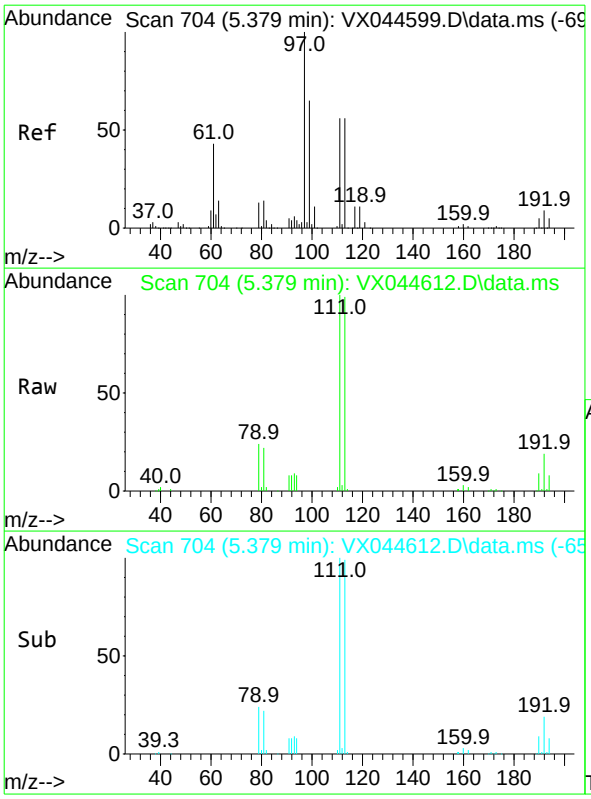


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044612.D
Acq: 07 Jan 2025 19:14

Tgt Ion:114 Resp: 314042

Ion	Ratio	Lower	Upper
114	100		
63	22.1	0.0	42.6
88	16.4	0.0	32.6



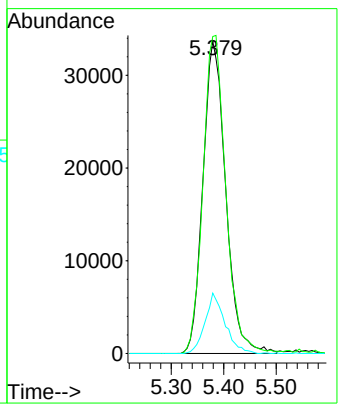


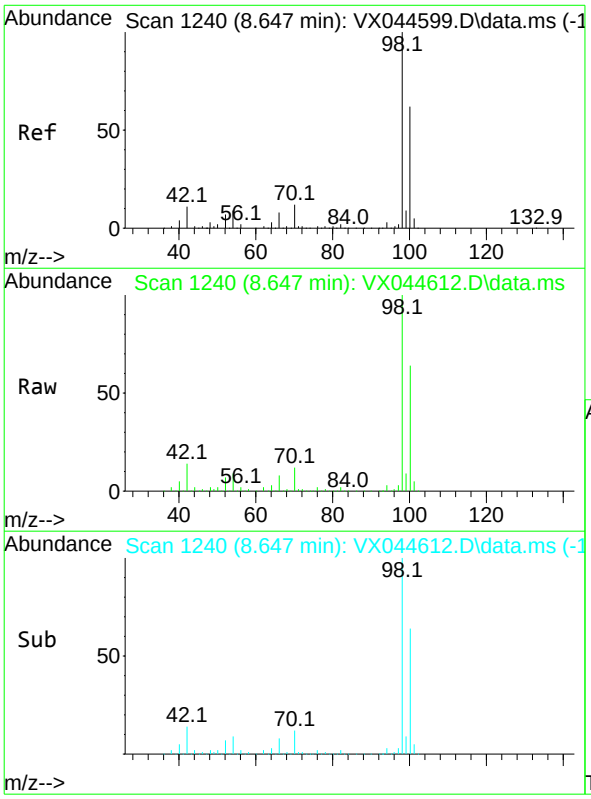
#35
Dibromofluoromethane
Concen: 47.125 ug/l
RT: 5.379 min Scan# 70
Delta R.T. -0.000 min
Lab File: VX044612.D
Acq: 07 Jan 2025 19:14

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-DUP-20250103

Tgt Ion:113 Resp: 101480

Ion	Ratio	Lower	Upper
113	100		
111	102.2	83.3	124.9
192	16.9	14.3	21.5

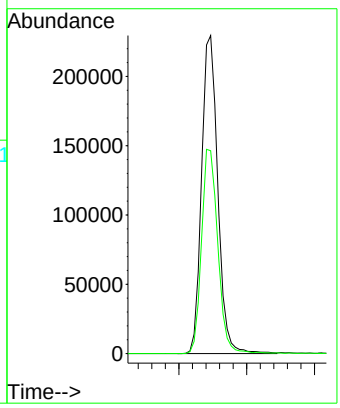


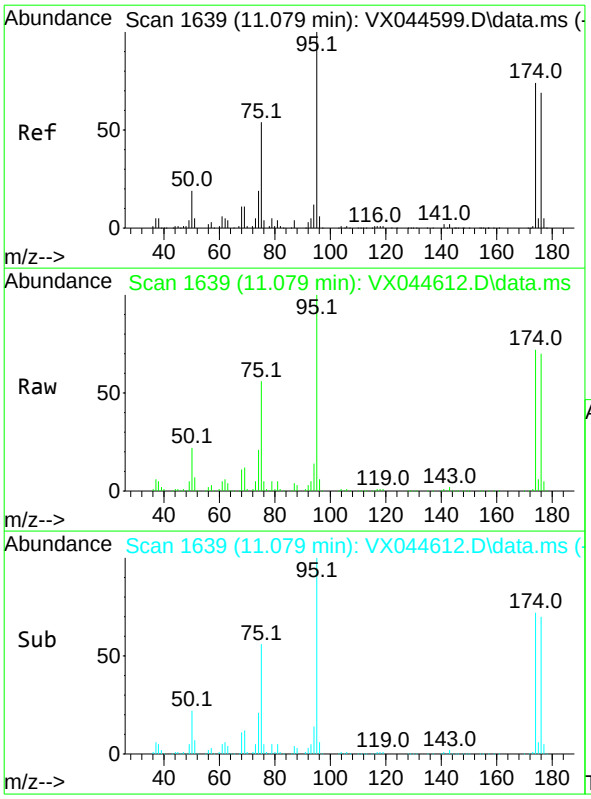


#50
Toluene-d8
Concen: 51.714 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX044612.D
Acq: 07 Jan 2025 19:14

Tgt Ion: 98 Resp: 380394

Ion	Ratio	Lower	Upper
98	100		
100	64.7	52.5	78.7



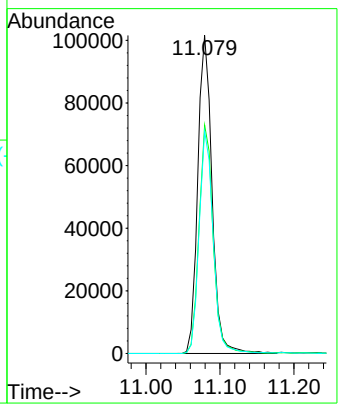


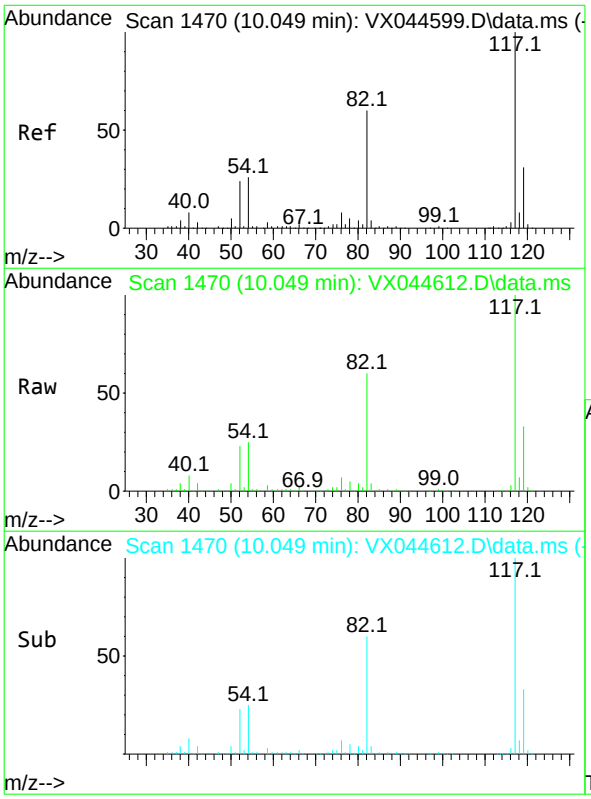
#62
4-Bromofluorobenzene
Concen: 52.438 ug/l
RT: 11.079 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044612.D
Acq: 07 Jan 2025 19:14

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-DUP-20250103

Tgt Ion: 95 Resp: 136144

Ion	Ratio	Lower	Upper
95	100		
174	71.1	0.0	148.8
176	69.0	0.0	139.8

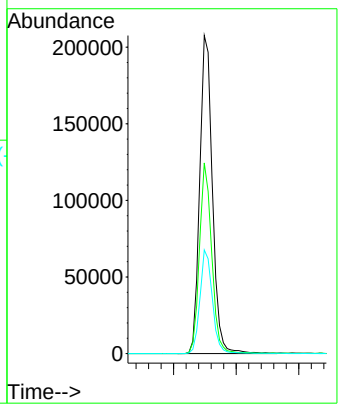


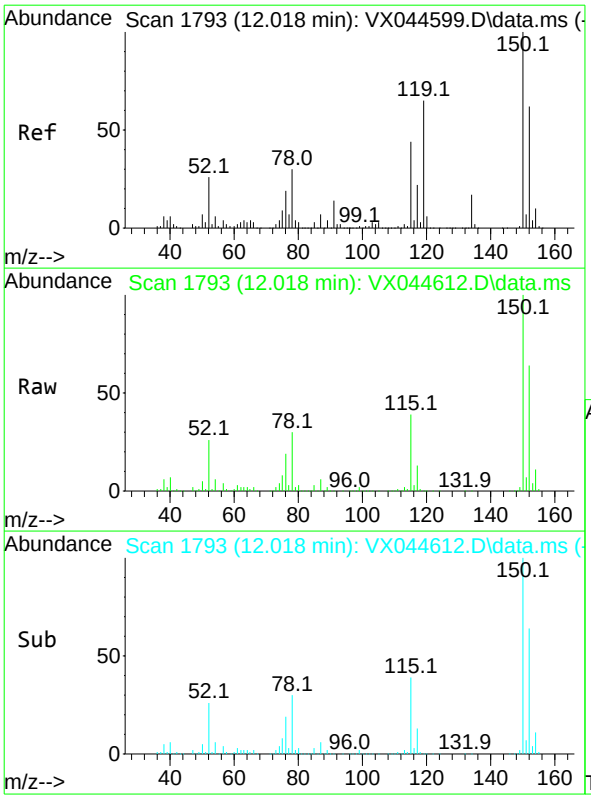


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. -0.000 min
Lab File: VX044612.D
Acq: 07 Jan 2025 19:14

Tgt Ion:117 Resp: 292342

Ion	Ratio	Lower	Upper
117	100		
82	59.9	47.8	71.6
119	32.6	25.0	37.6



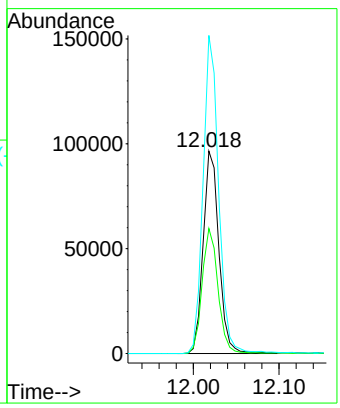


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044612.D
Acq: 07 Jan 2025 19:14

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-DUP-20250103

Tgt Ion:152 Resp: 123056

Ion	Ratio	Lower	Upper
152	100		
115	62.4	44.4	133.1
150	156.0	0.0	355.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044612.D
Acq On : 07 Jan 2025 19:14
Operator : JC/MD
Sample : Q1022-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-DUP-20250103

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\82X010725W.M
Title : SW846 8260

Signal : TIC: VX044611.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.630	71	89	93	rBV5	15485	67116	6.48%	1.209%
2	5.379	693	704	719	rBV	114715	344587	33.27%	6.207%
3	5.544	721	731	749	rVB	190670	554232	53.51%	9.984%
4	5.952	788	798	815	rBV	140135	372899	36.00%	6.717%
5	6.757	921	930	947	rBV	316730	770663	74.40%	13.883%
6	8.647	1233	1240	1258	rBV	616747	1035806	100.00%	18.659%
7	10.049	1465	1470	1485	rBV	678478	944150	91.15%	17.008%
8	11.079	1634	1639	1652	rBV	509497	670207	64.70%	12.073%
9	12.018	1788	1793	1802	rBV	630746	791606	76.42%	14.260%

Sum of corrected areas: 5551266

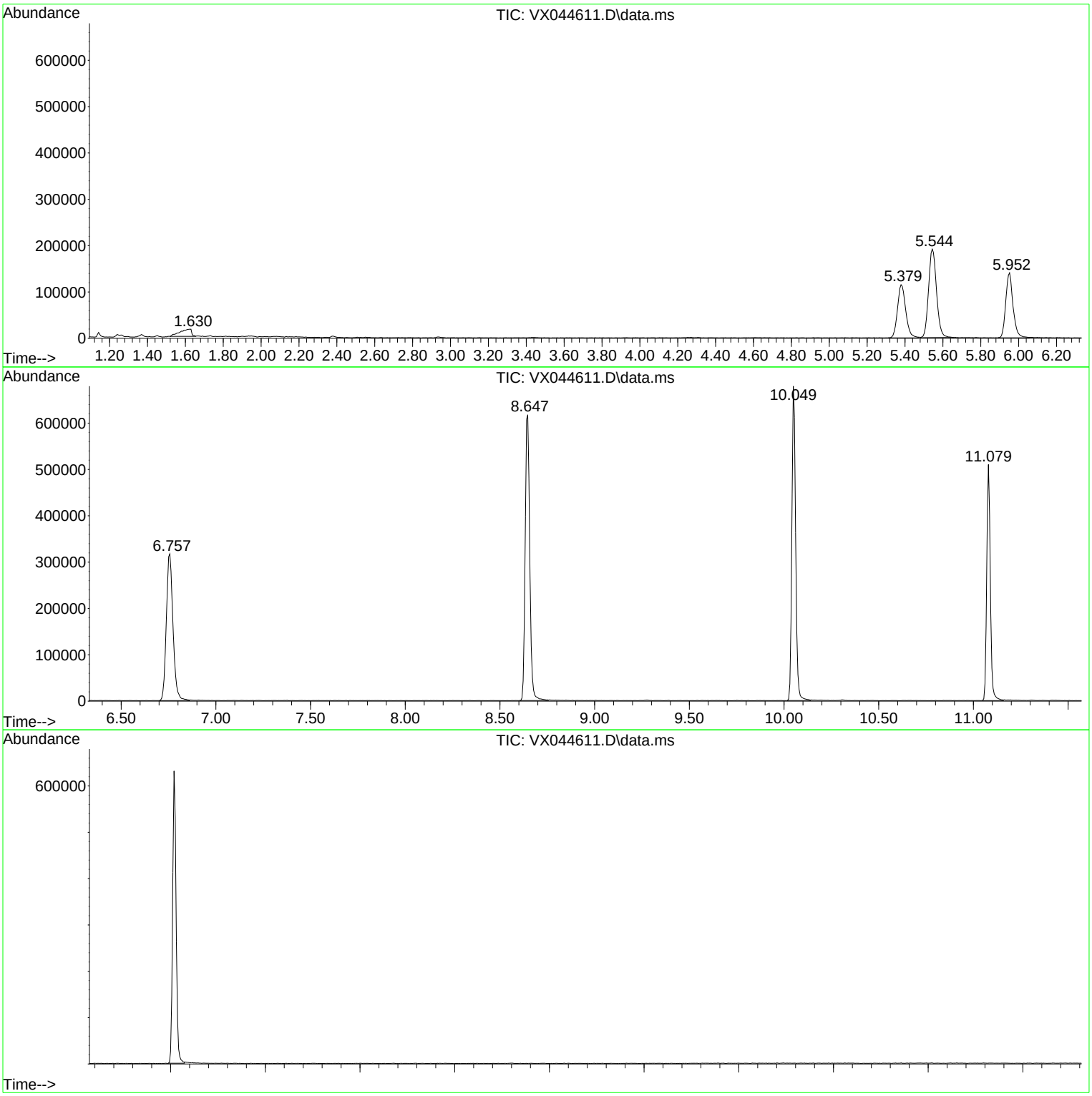
Sample Results: **VX044612.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044612.D
Acq On : 07 Jan 2025 19:14
Operator : JC/MD
Sample : Q1022-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-DUP-20250103

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044612.D
Acq On : 07 Jan 2025 19:14
Operator : JC/MD
Sample : Q1022-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-DUP-20250103

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.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\VX010725\
Data File : VX044612.D
Acq On : 07 Jan 2025 19:14
Operator : JC/MD
Sample : Q1022-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-DUP-20250103

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.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

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:	01/03/25
Project:	CTO WE13	Date Received:	01/06/25
Client Sample ID:	BP-VPB-190A-GW-838-840	SDG No.:	Q1022
Lab Sample ID:	Q1022-03	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044610.D	1		01/07/25 18:28	VX010725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.26	0.75	1.00	ug/L
67-64-1	Acetone	6.30		1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.25	0.75	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L

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:	01/03/25
Project:	CTO WE13	Date Received:	01/06/25
Client Sample ID:	BP-VPB-190A-GW-838-840	SDG No.:	Q1022
Lab Sample ID:	Q1022-03	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044610.D	1		01/07/25 18:28	VX010725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	50.3		81 - 118		101%	SPK: 50
1868-53-7	Dibromofluoromethane	47.5		80 - 119		95%	SPK: 50
2037-26-5	Toluene-d8	51.3		89 - 112		103%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.7		85 - 114		103%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	189000	5.544				
540-36-3	1,4-Difluorobenzene	336000	6.757				
3114-55-4	Chlorobenzene-d5	309000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	131000	12.018				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.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:	01/03/25
Project:	CTO WE13	Date Received:	01/06/25
Client Sample ID:	BP-VPB-190A-GW-838-840	SDG No.:	Q1022
Lab Sample ID:	Q1022-03	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044610.D	1		01/07/25 18:28	VX010725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044610.D
Acq On : 07 Jan 2025 18:28
Operator : JC/MD
Sample : Q1022-03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-GW-838-840

Quant Time: Jan 08 05:56:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 03:57:12 2025
Response via : Initial Calibration

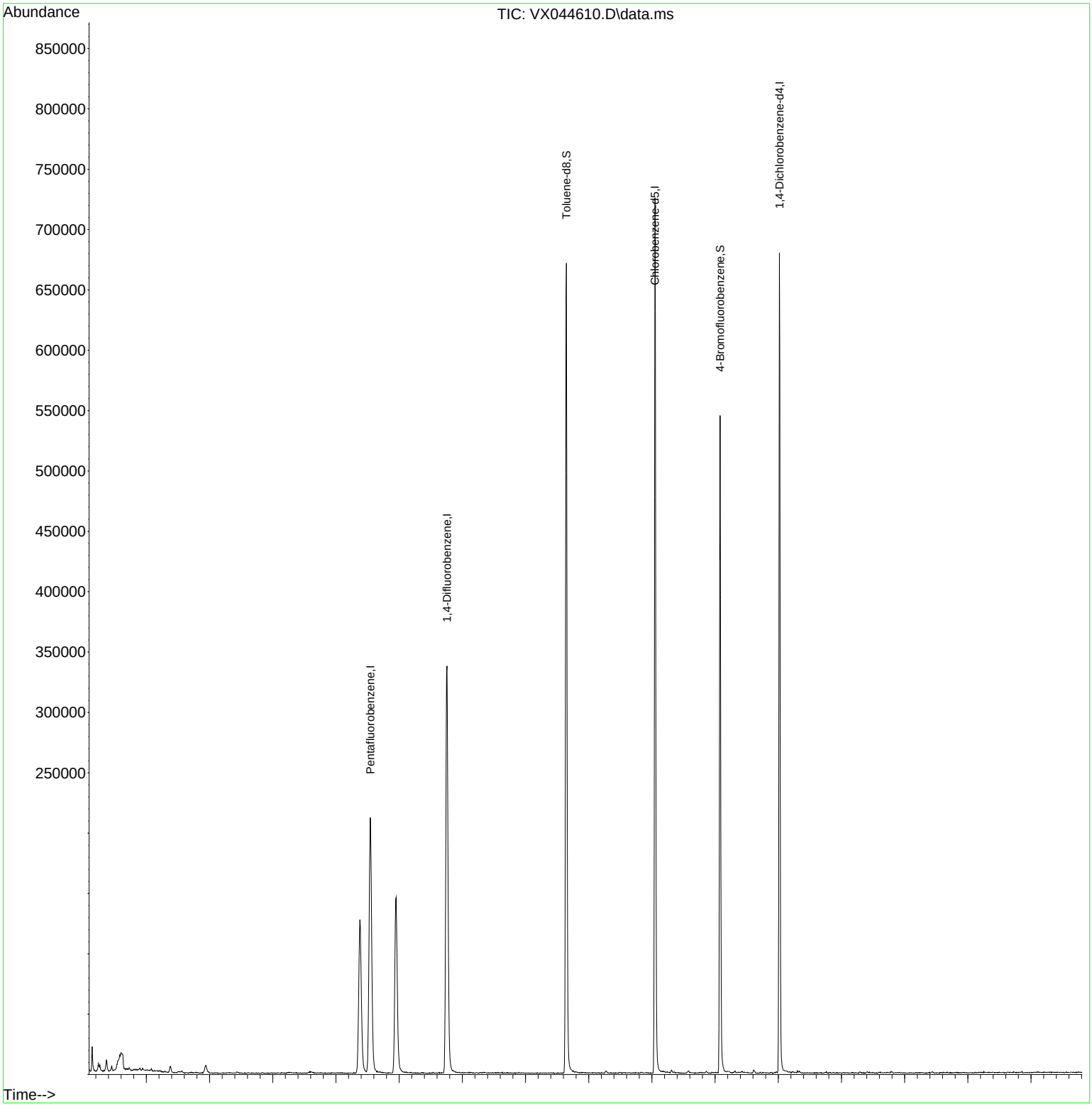
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	188583	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	335673	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	308993	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	131138	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	153060	50.337	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 100.680%			
35) Dibromofluoromethane	5.379	113	109447	47.549	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 95.100%			
50) Toluene-d8	8.647	98	403684	51.344	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.680%			
62) 4-Bromofluorobenzene	11.079	95	143530	51.721	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 103.440%			
Target Compounds						Qvalue
16) Acetone	2.374	43	6058	6.321	ug/l #	88

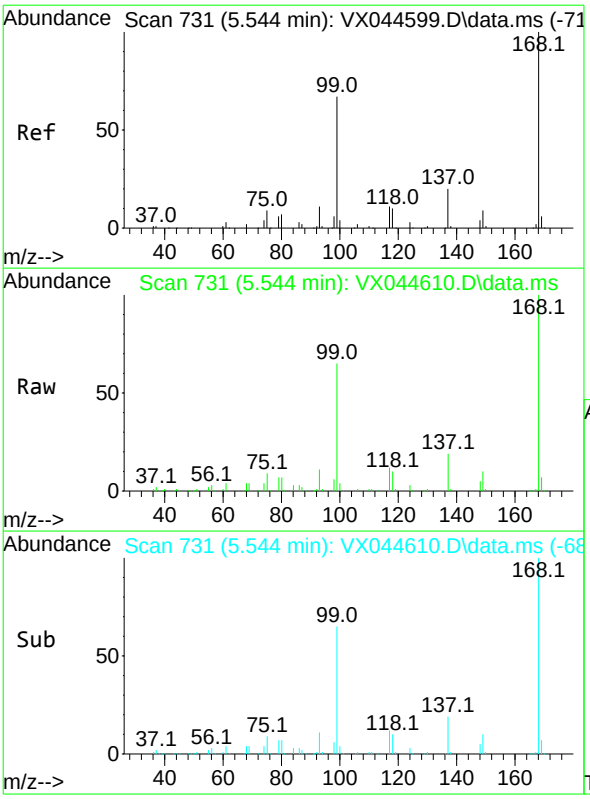
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044610.D
Acq On : 07 Jan 2025 18:28
Operator : JC/MD
Sample : Q1022-03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-GW-838-840

Quant Time: Jan 08 05:56:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 03:57:12 2025
Response via : Initial Calibration



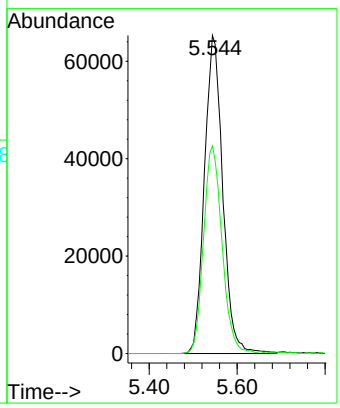


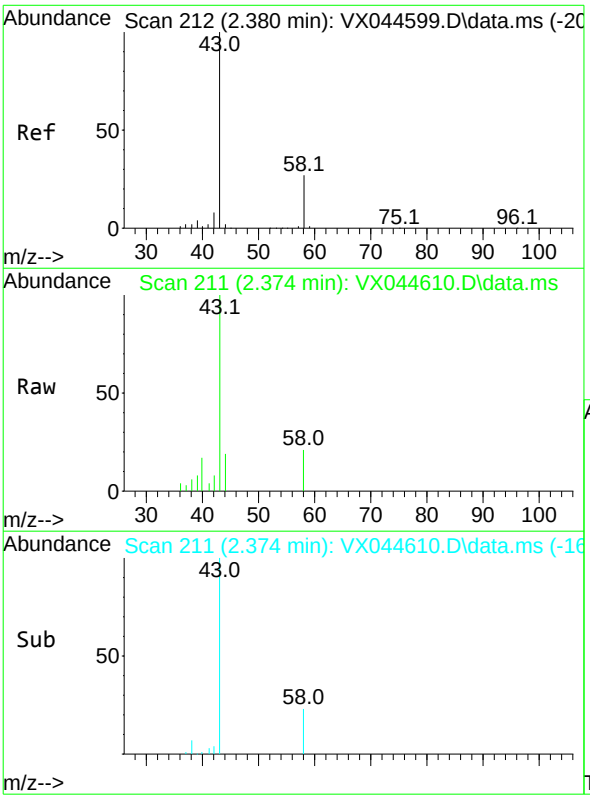
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 73
Delta R.T. -0.000 min
Lab File: VX044610.D
Acq: 07 Jan 2025 18:28

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-GW-838-840

Tgt Ion:168 Resp: 188583

Ion	Ratio	Lower	Upper
168	100		
99	65.2	53.5	80.3

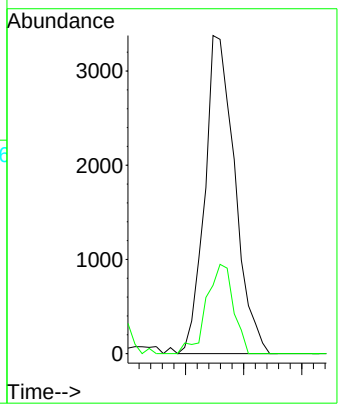


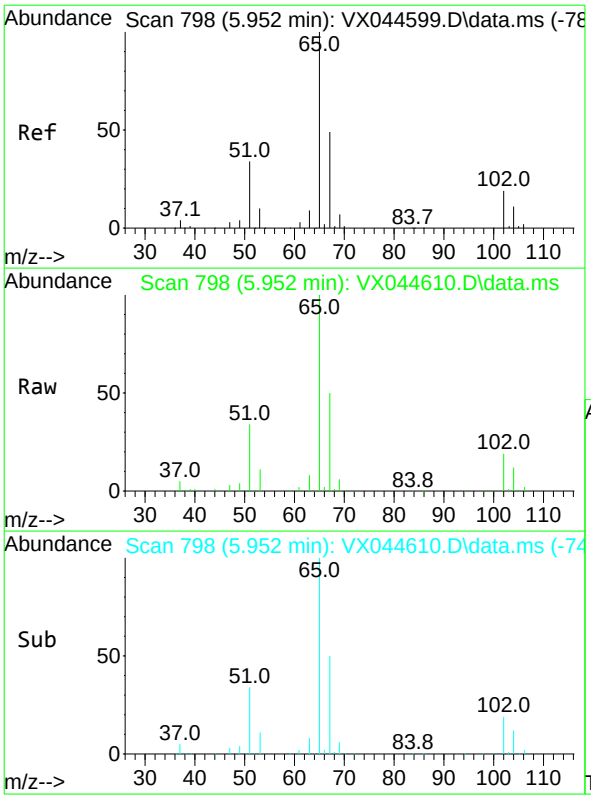


#16
Acetone
Concen: 6.321 ug/l
RT: 2.374 min Scan# 211
Delta R.T. -0.006 min
Lab File: VX044610.D
Acq: 07 Jan 2025 18:28

Tgt Ion: 43 Resp: 6058

Ion	Ratio	Lower	Upper
43	100		
58	21.5	22.0	33.0#



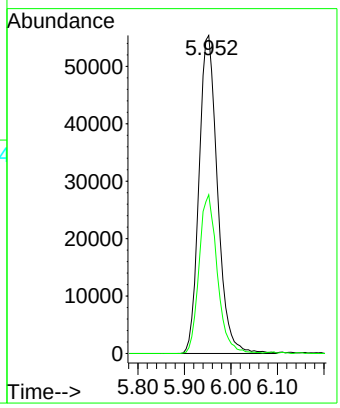


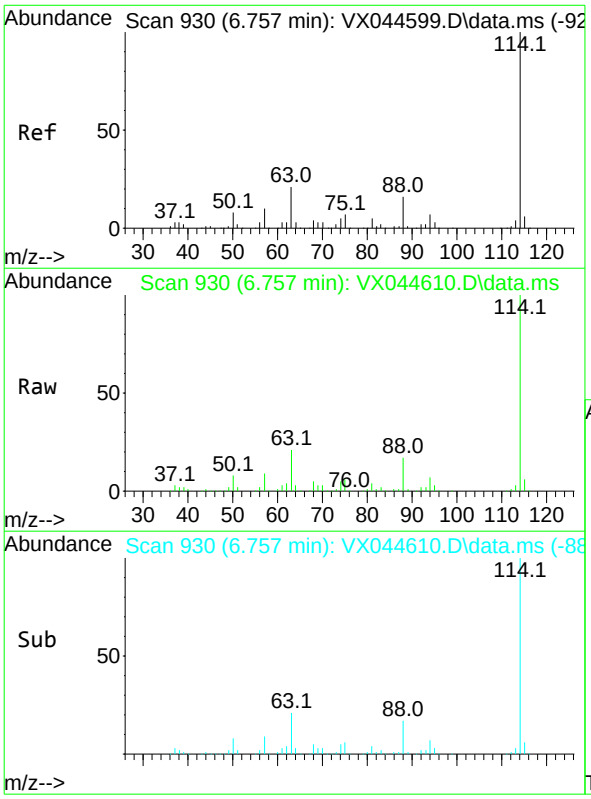
#33
1,2-Dichloroethane-d4
Concen: 50.337 ug/l
RT: 5.952 min Scan# 79
Delta R.T. 0.000 min
Lab File: VX044610.D
Acq: 07 Jan 2025 18:28

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-GW-838-840

Tgt Ion: 65 Resp: 153060

Ion	Ratio	Lower	Upper
65	100		
67	49.2	0.0	99.0

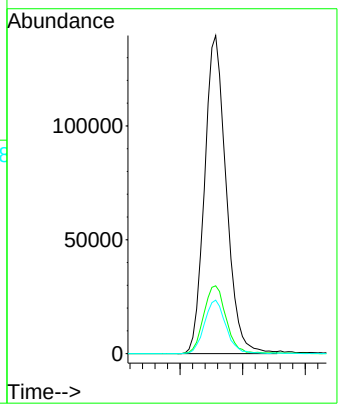


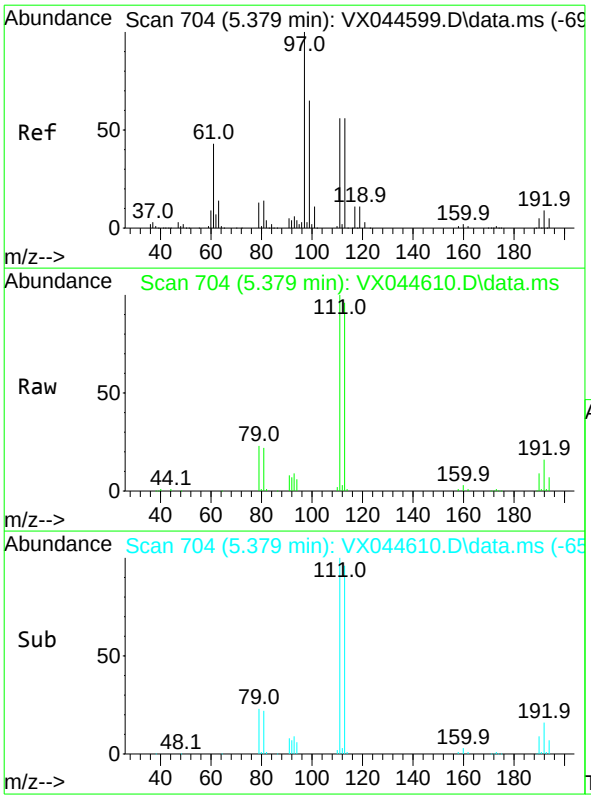


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX044610.D
Acq: 07 Jan 2025 18:28

Tgt Ion:114 Resp: 335673

Ion	Ratio	Lower	Upper
114	100		
63	21.3	0.0	42.6
88	16.8	0.0	32.6



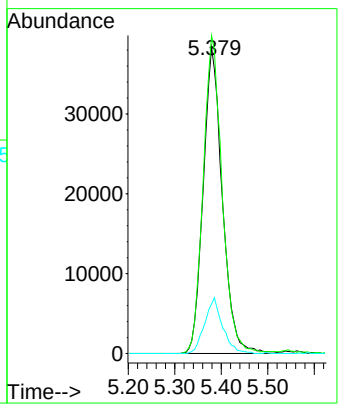


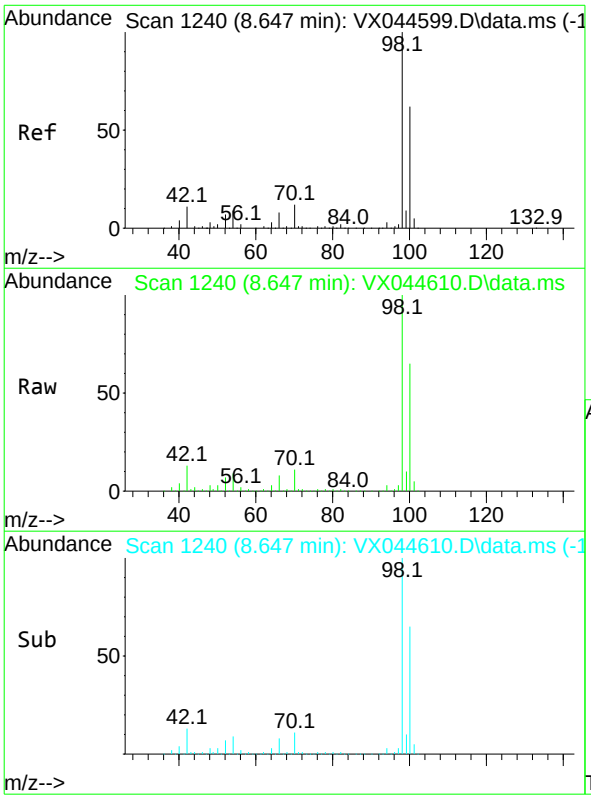
#35
Dibromofluoromethane
Concen: 47.549 ug/l
RT: 5.379 min Scan# 70
Delta R.T. 0.000 min
Lab File: VX044610.D
Acq: 07 Jan 2025 18:28

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-GW-838-840

Tgt Ion:113 Resp: 109447

Ion	Ratio	Lower	Upper
113	100		
111	103.1	83.3	124.9
192	17.1	14.3	21.5

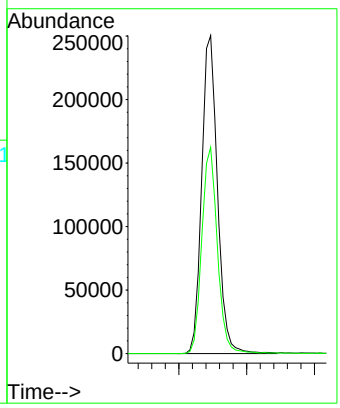


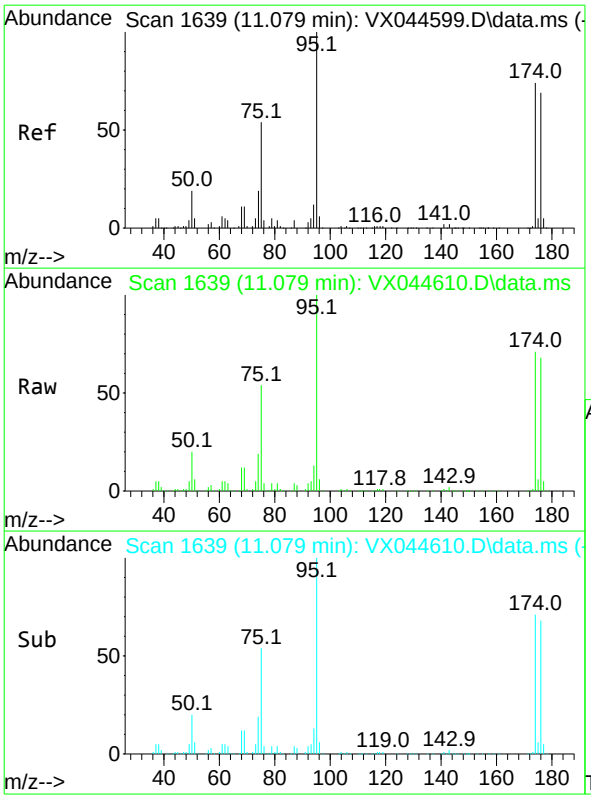


#50
Toluene-d8
Concen: 51.344 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX044610.D
Acq: 07 Jan 2025 18:28

Tgt Ion: 98 Resp: 403684

Ion	Ratio	Lower	Upper
98	100		
100	64.3	52.5	78.7



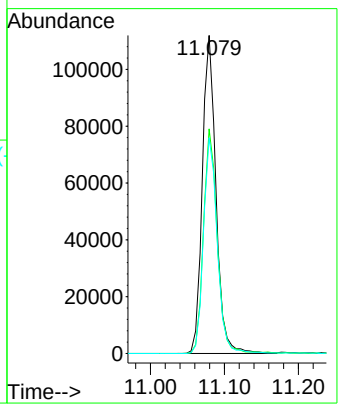


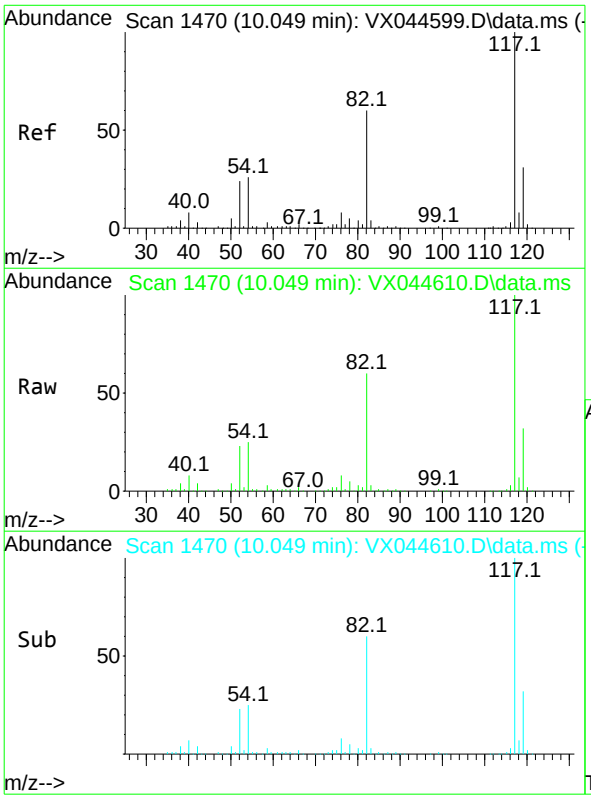
#62
4-Bromofluorobenzene
Concen: 51.721 ug/l
RT: 11.079 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX044610.D
Acq: 07 Jan 2025 18:28

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-GW-838-840

Tgt Ion: 95 Resp: 143530

Ion	Ratio	Lower	Upper
95	100		
174	71.2	0.0	148.8
176	68.5	0.0	139.8

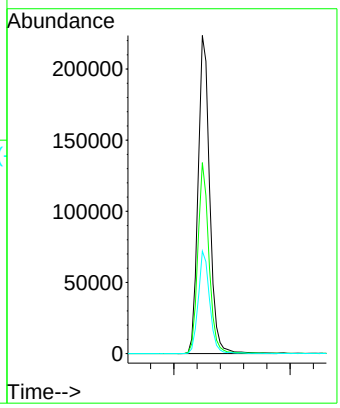


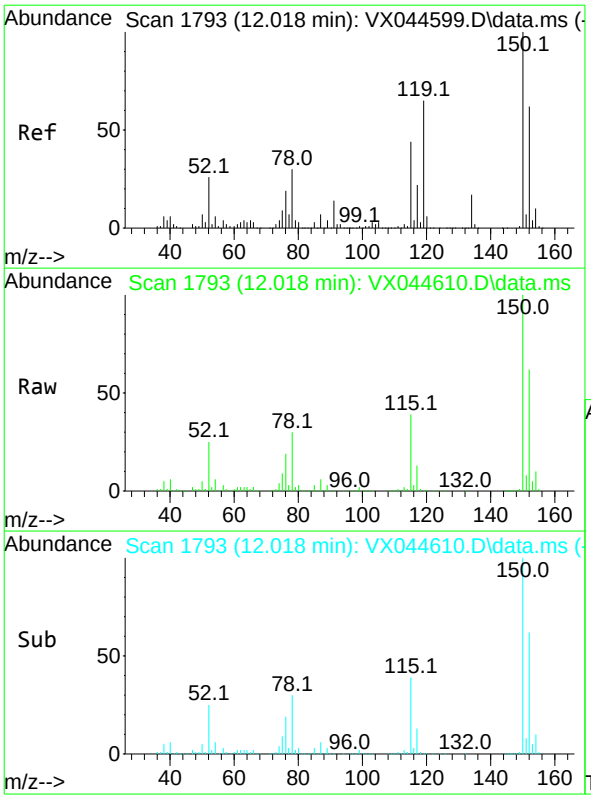


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX044610.D
Acq: 07 Jan 2025 18:28

Tgt Ion:117 Resp: 308993

Ion	Ratio	Lower	Upper
117	100		
82	60.0	47.8	71.6
119	32.2	25.0	37.6



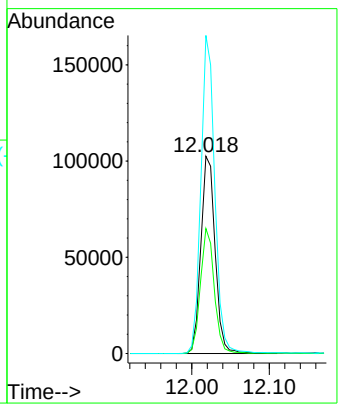


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 17
Delta R.T. 0.000 min
Lab File: VX044610.D
Acq: 07 Jan 2025 18:28

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-GW-838-840

Tgt Ion:152 Resp: 131138

Ion	Ratio	Lower	Upper
152	100		
115	61.5	44.4	133.1
150	157.4	0.0	355.0



Sample Results: **VX044610.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044610.D
Acq On : 07 Jan 2025 18:28
Operator : JC/MD
Sample : Q1022-03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-GW-838-840

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\82X010725W.M
Title : SW846 8260

Signal : TIC: VX044609.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.142	5	9	14	rBV2	20589	21651	1.97%	0.366%
2	1.368	41	46	52	rVB2	9143	14466	1.32%	0.244%
3	1.581	69	81	82	rBV5	12353	32260	2.94%	0.545%
4	2.941	296	304	314	rBV3	6492	16961	1.54%	0.286%
5	5.379	692	704	721	rBV2	127149	371856	33.87%	6.278%
6	5.544	721	731	748	rVB	210966	602068	54.84%	10.164%
7	5.952	788	798	817	rBV	145438	401303	36.55%	6.775%
8	6.757	921	930	945	rBV	337225	824090	75.06%	13.912%
9	8.647	1233	1240	1256	rBV	670908	1097903	100.00%	18.535%
10	10.049	1465	1470	1486	rBV	725050	991343	90.29%	16.736%
11	11.079	1634	1639	1651	rBV	544544	700654	63.82%	11.828%
12	12.018	1788	1793	1807	rBV	679391	848917	77.32%	14.331%

Sum of corrected areas: 5923472

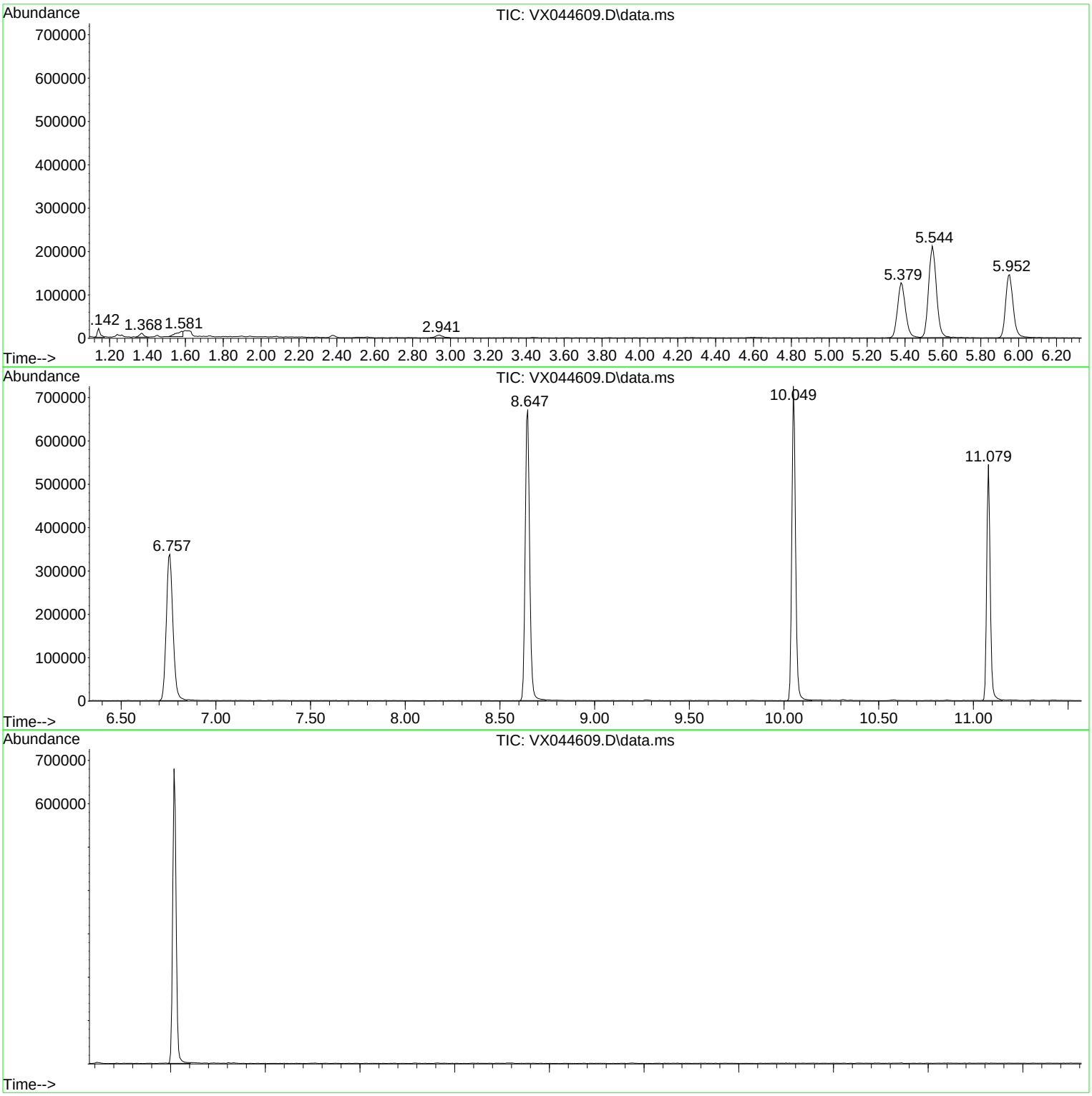
Sample Results: **VX044610.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044610.D
Acq On : 07 Jan 2025 18:28
Operator : JC/MD
Sample : Q1022-03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-GW-838-840

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044610.D
Acq On : 07 Jan 2025 18:28
Operator : JC/MD
Sample : Q1022-03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-GW-838-840

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.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\VX010725\
Data File : VX044610.D
Acq On : 07 Jan 2025 18:28
Operator : JC/MD
Sample : Q1022-03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-GW-838-840

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.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

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:	01/03/25
Project:	CTO WE13	Date Received:	01/06/25
Client Sample ID:	BP-VPB-190A-GW-858-860	SDG No.:	Q1022
Lab Sample ID:	Q1022-04	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044611.D	1		01/07/25 18:51	VX010725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.26	0.75	1.00	ug/L
67-64-1	Acetone	3.70	J	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.25	0.75	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L

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:	01/03/25
Project:	CTO WE13	Date Received:	01/06/25
Client Sample ID:	BP-VPB-190A-GW-858-860	SDG No.:	Q1022
Lab Sample ID:	Q1022-04	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044611.D	1		01/07/25 18:51	VX010725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	50.5		81 - 118		101%	SPK: 50
1868-53-7	Dibromofluoromethane	45.8		80 - 119		92%	SPK: 50
2037-26-5	Toluene-d8	50.9		89 - 112		102%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.5		85 - 114		99%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	178000	5.544				
540-36-3	1,4-Difluorobenzene	326000	6.757				
3114-55-4	Chlorobenzene-d5	293000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	119000	12.018				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.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:	01/03/25
Project:	CTO WE13	Date Received:	01/06/25
Client Sample ID:	BP-VPB-190A-GW-858-860	SDG No.:	Q1022
Lab Sample ID:	Q1022-04	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044611.D	1		01/07/25 18:51	VX010725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044611.D
Acq On : 07 Jan 2025 18:51
Operator : JC/MD
Sample : Q1022-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-GW-858-860

Quant Time: Jan 08 05:57:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 03:57:12 2025
Response via : Initial Calibration

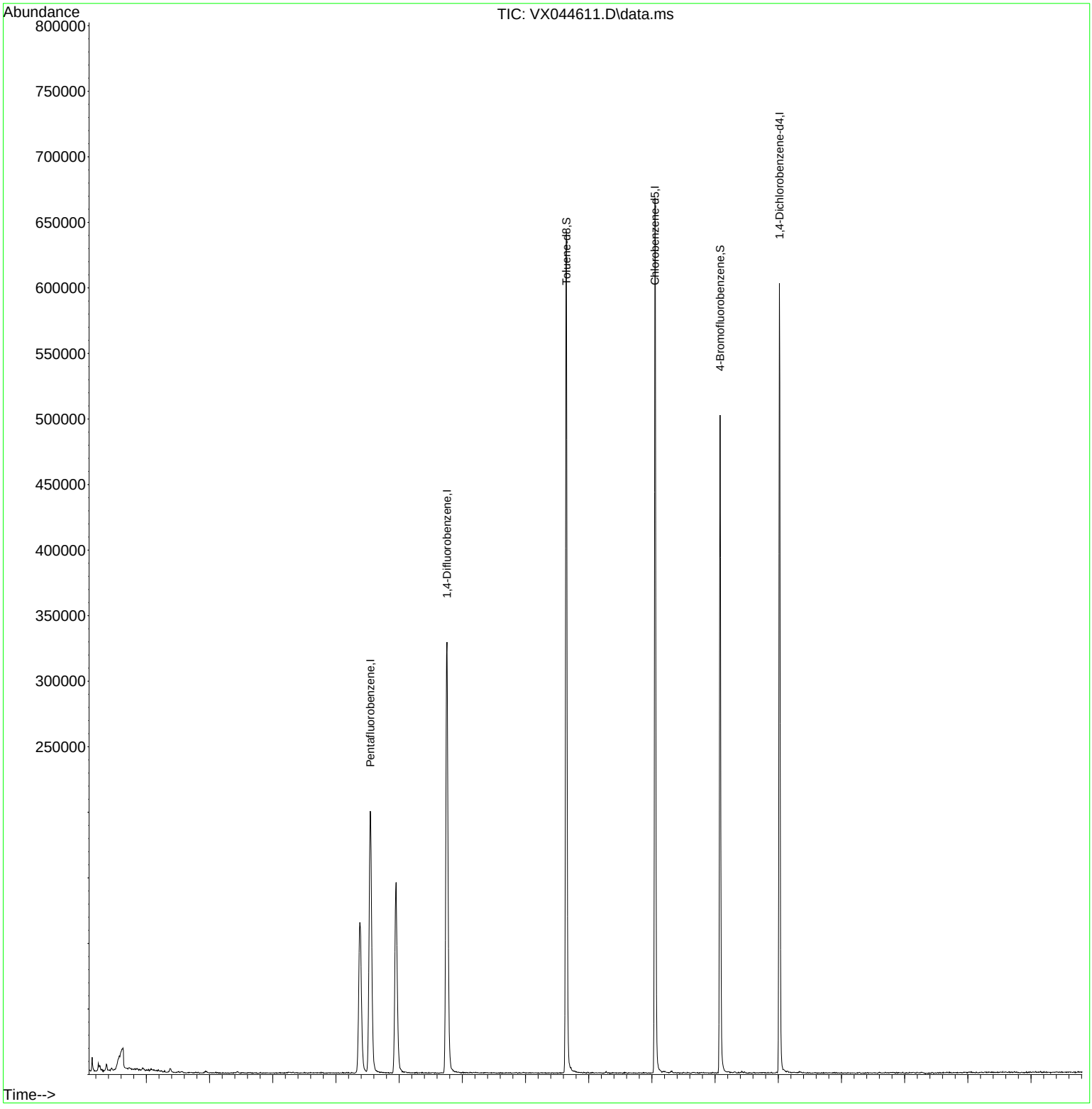
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	178481	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	326468	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	293289	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	119305	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	145465	50.547	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 101.100%			
35) Dibromofluoromethane	5.379	113	102441	45.760	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 91.520%			
50) Toluene-d8	8.647	98	388881	50.856	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.720%			
62) 4-Bromofluorobenzene	11.079	95	133679	49.529	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 99.060%			
Target Compounds						Qvalue
16) Acetone	2.380	43	3376	3.722	ug/l	91

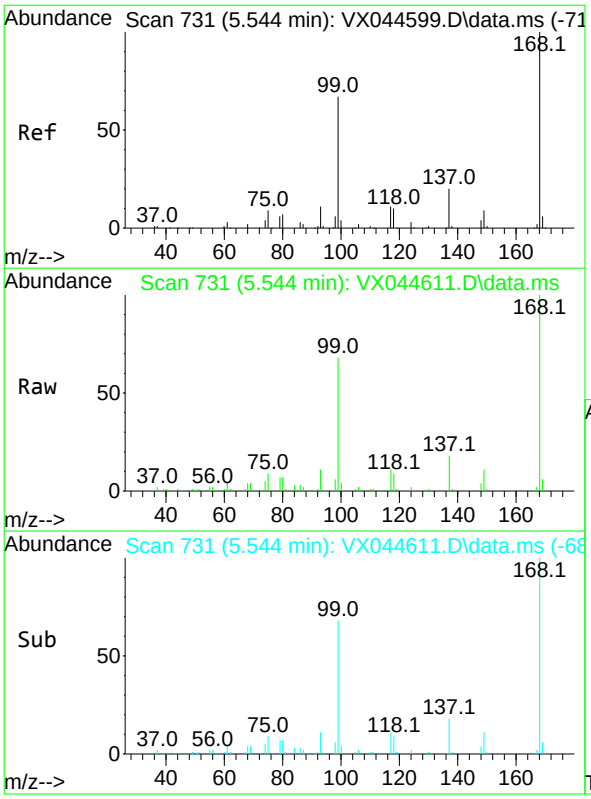
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044611.D
Acq On : 07 Jan 2025 18:51
Operator : JC/MD
Sample : Q1022-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-GW-858-860

Quant Time: Jan 08 05:57:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 03:57:12 2025
Response via : Initial Calibration



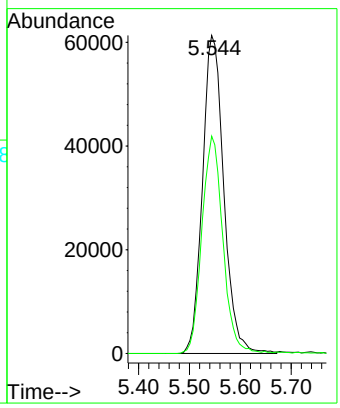


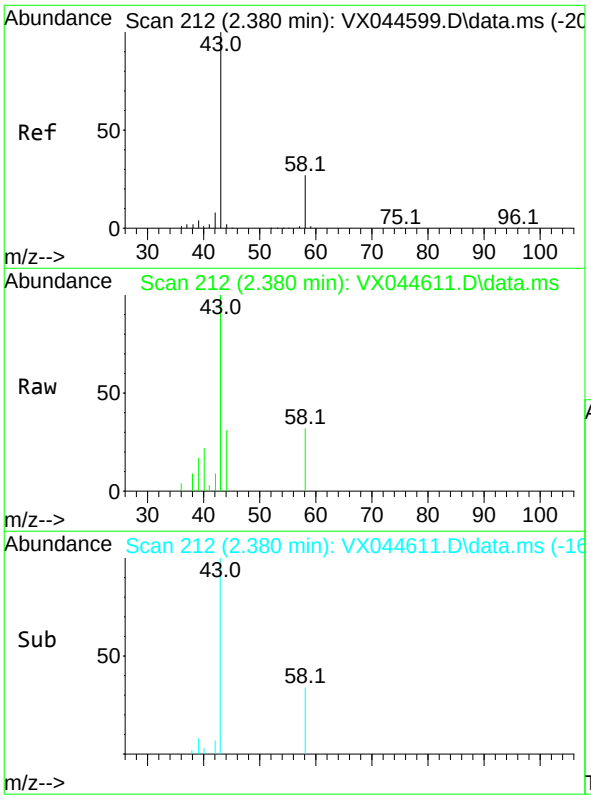
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 73
Delta R.T. -0.000 min
Lab File: VX044611.D
Acq: 07 Jan 2025 18:51

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-GW-858-860

Tgt Ion:168 Resp: 178481

Ion	Ratio	Lower	Upper
168	100		
99	68.3	53.5	80.3

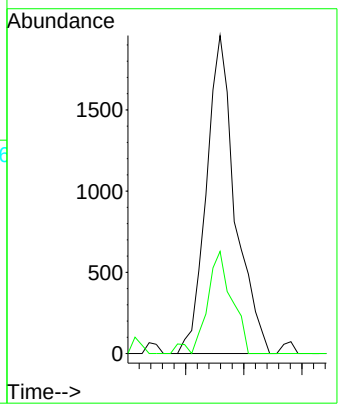


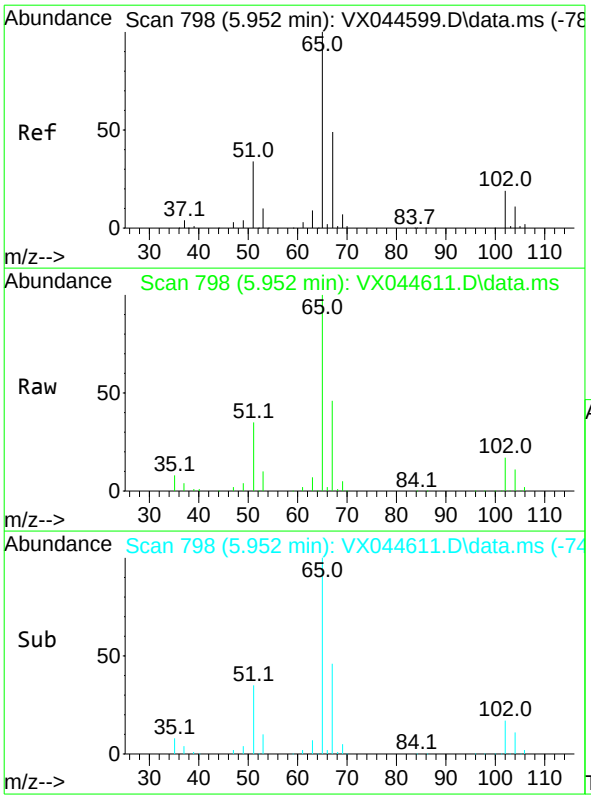


#16
Acetone
Concen: 3.722 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.000 min
Lab File: VX044611.D
Acq: 07 Jan 2025 18:51

Tgt Ion: 43 Resp: 3376

Ion	Ratio	Lower	Upper
43	100		
58	32.1	22.0	33.0



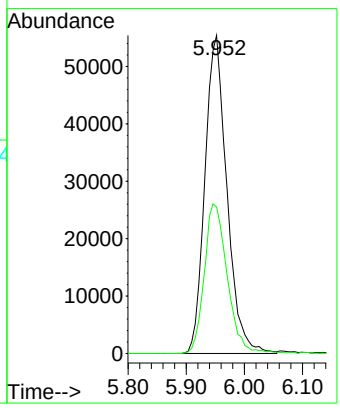


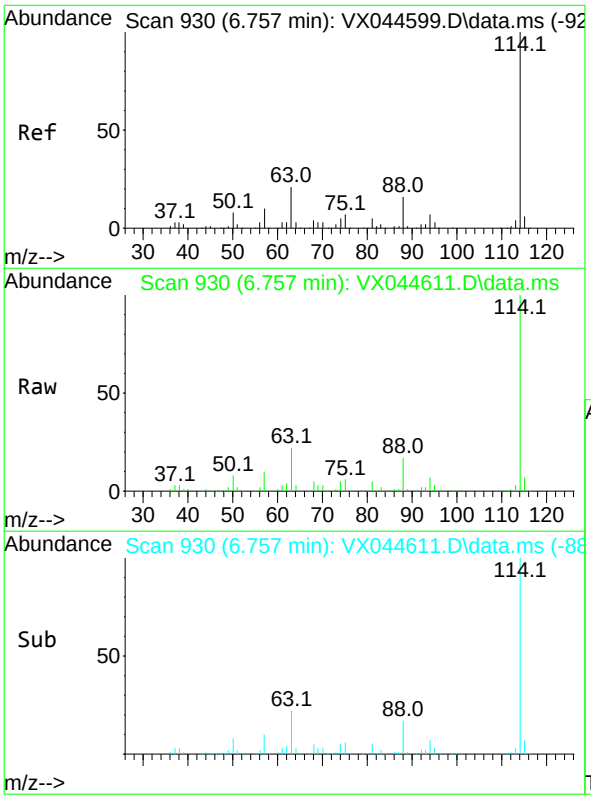
#33
1,2-Dichloroethane-d4
Concen: 50.547 ug/l
RT: 5.952 min Scan# 79
Delta R.T. -0.000 min
Lab File: VX044611.D
Acq: 07 Jan 2025 18:51

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-GW-858-860

Tgt Ion: 65 Resp: 145465

Ion	Ratio	Lower	Upper
65	100		
67	49.2	0.0	99.0

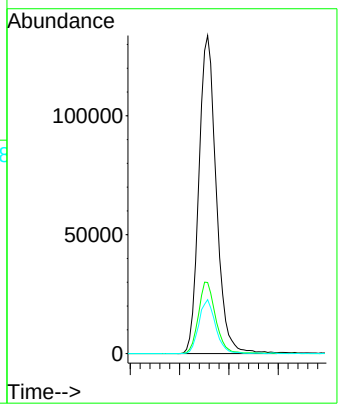


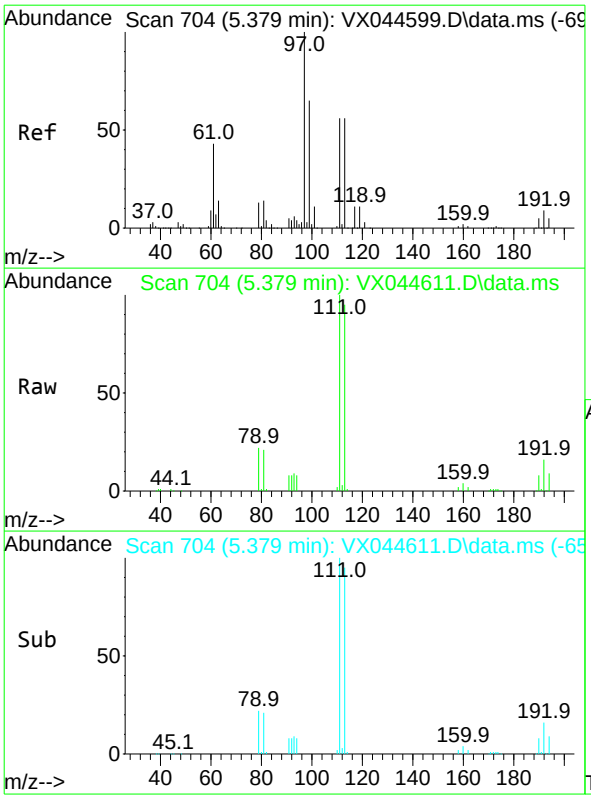


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044611.D
Acq: 07 Jan 2025 18:51

Tgt Ion:114 Resp: 326468

Ion	Ratio	Lower	Upper
114	100		
63	22.4	0.0	42.6
88	17.0	0.0	32.6



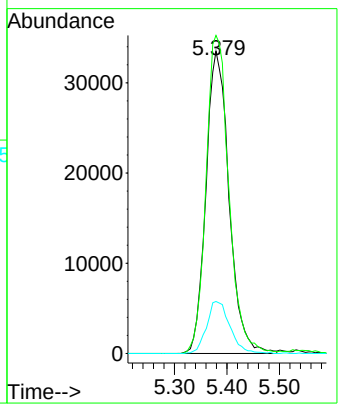


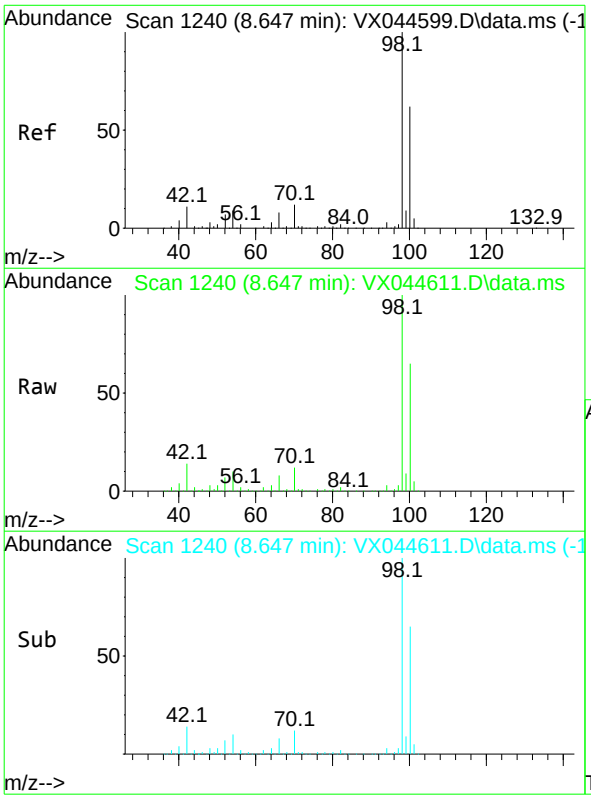
#35
Dibromofluoromethane
Concen: 45.760 ug/l
RT: 5.379 min Scan# 70
Delta R.T. -0.000 min
Lab File: VX044611.D
Acq: 07 Jan 2025 18:51

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-GW-858-860

Tgt Ion:113 Resp: 102441

Ion	Ratio	Lower	Upper
113	100		
111	104.1	83.3	124.9
192	17.4	14.3	21.5

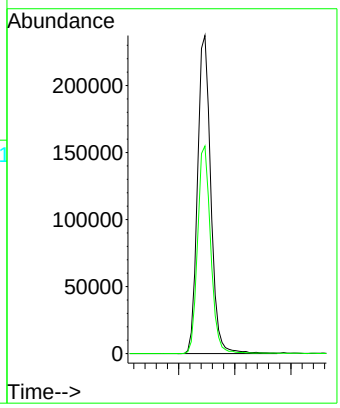


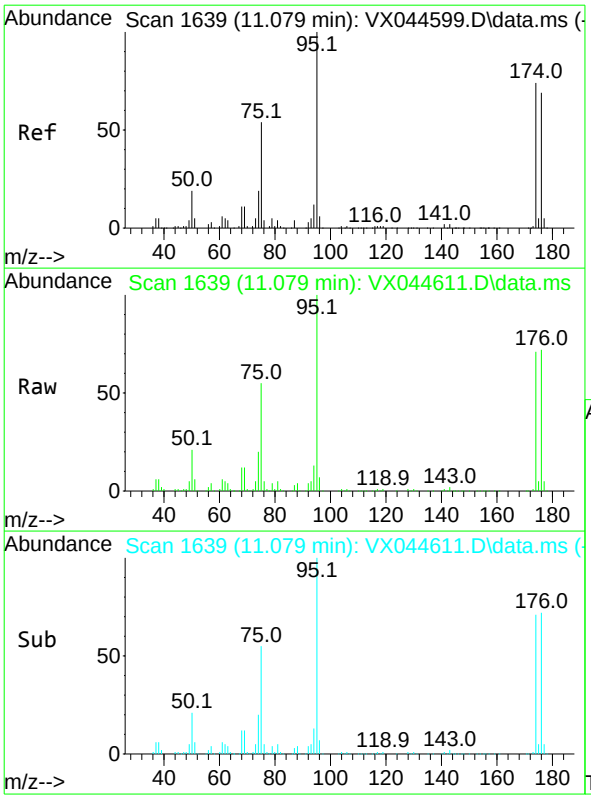


#50
Toluene-d8
Concen: 50.856 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX044611.D
Acq: 07 Jan 2025 18:51

Tgt Ion: 98 Resp: 388881

Ion	Ratio	Lower	Upper
98	100		
100	64.4	52.5	78.7



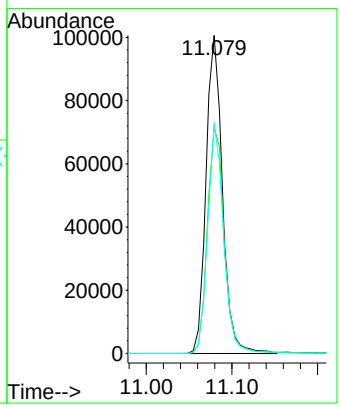


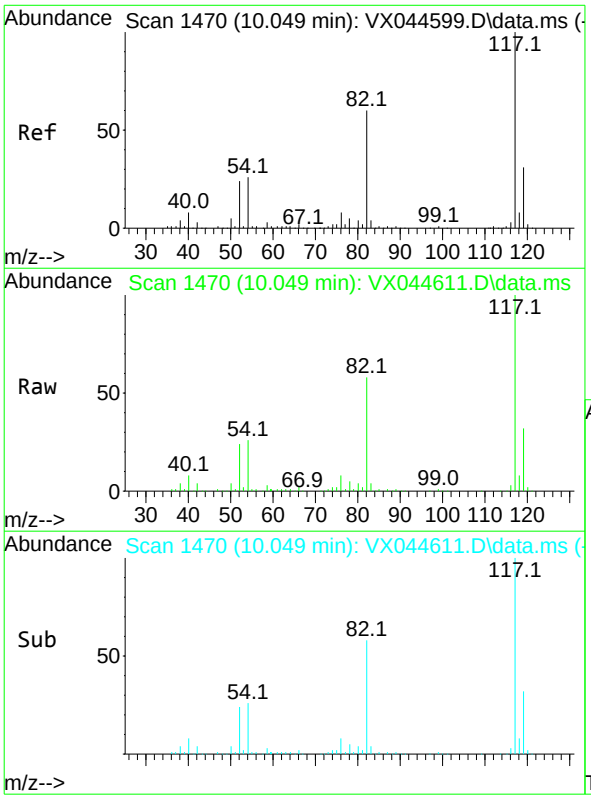
#62
4-Bromofluorobenzene
Concen: 49.529 ug/l
RT: 11.079 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044611.D
Acq: 07 Jan 2025 18:51

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-GW-858-860

Tgt Ion: 95 Resp: 133679

Ion	Ratio	Lower	Upper
95	100		
174	73.1	0.0	148.8
176	71.1	0.0	139.8

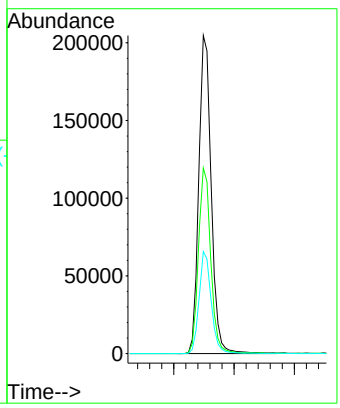


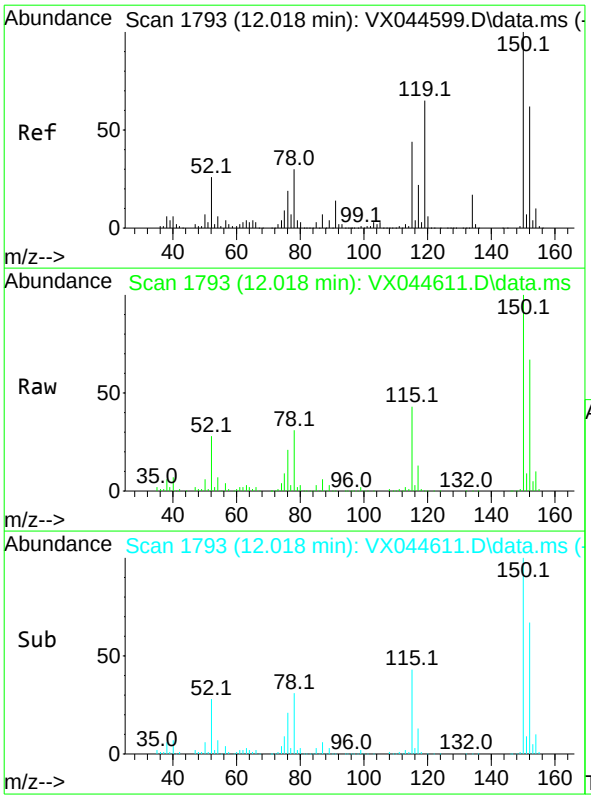


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. -0.000 min
Lab File: VX044611.D
Acq: 07 Jan 2025 18:51

Tgt Ion:117 Resp: 293289

Ion	Ratio	Lower	Upper
117	100		
82	58.4	47.8	71.6
119	32.1	25.0	37.6



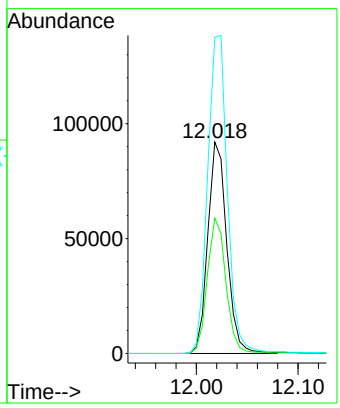


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044611.D
Acq: 07 Jan 2025 18:51

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-GW-858-860

Tgt Ion:152 Resp: 119305

Ion	Ratio	Lower	Upper
152	100		
115	63.1	44.4	133.1
150	157.5	0.0	355.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044611.D
Acq On : 07 Jan 2025 18:51
Operator : JC/MD
Sample : Q1022-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-GW-858-860

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\82X010725W.M
Title : SW846 8260

Signal : TIC: VX044610.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.142	6	9	16	rVB	10571	10516	1.00%	0.188%
2	1.575	70	80	81	rBV4	10028	24903	2.38%	0.446%
3	5.379	689	704	721	rBV2	115078	353108	33.70%	6.327%
4	5.544	721	731	751	rVB	199011	574253	54.80%	10.289%
5	5.952	787	798	814	rBV	145612	386631	36.90%	6.928%
6	6.757	920	930	946	rBV	328731	797600	76.11%	14.291%
7	8.647	1233	1240	1251	rBV	641448	1047920	100.00%	18.776%
8	10.049	1465	1470	1488	rBV	667347	944055	90.09%	16.915%
9	11.079	1634	1639	1654	rBV	501635	667901	63.74%	11.967%
10	12.018	1788	1793	1802	rBV	602208	774185	73.88%	13.872%

Sum of corrected areas: 5581072

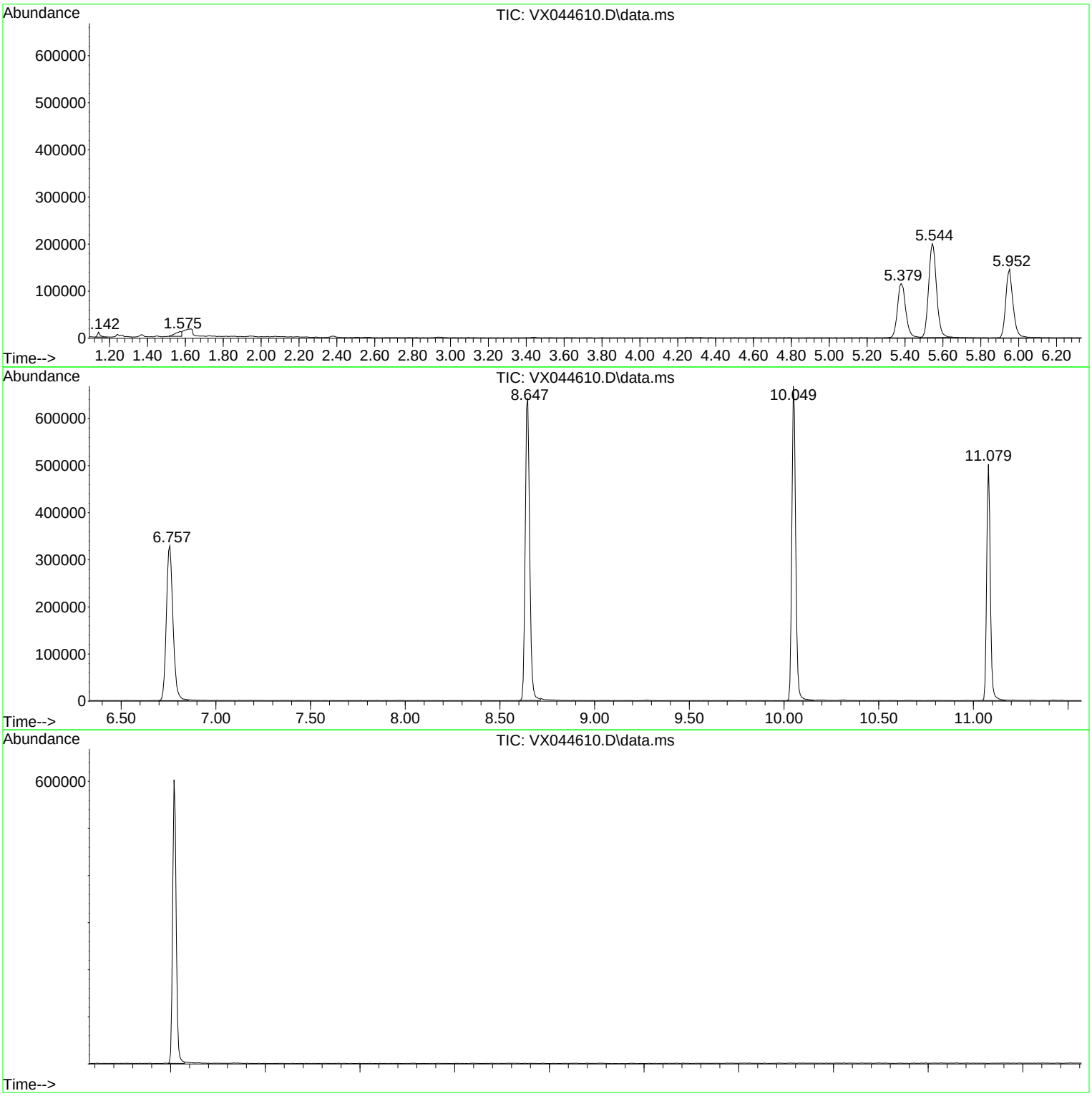
Sample Results: **VX044611.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044611.D
Acq On : 07 Jan 2025 18:51
Operator : JC/MD
Sample : Q1022-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-GW-858-860

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044611.D
Acq On : 07 Jan 2025 18:51
Operator : JC/MD
Sample : Q1022-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-GW-858-860

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.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\VX010725\
Data File : VX044611.D
Acq On : 07 Jan 2025 18:51
Operator : JC/MD
Sample : Q1022-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-190A-GW-858-860

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.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

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: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1022 SAS No.: Q1022 SDG No.: Q1022

Instrument ID: MSVOA_X Calibration Date(s): 01/07/2025 01/07/2025

Heated Purge: (Y/N) N Calibration Time(s): 10:06 12:00

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

LAB FILE ID: RRF001 = VX044596.D RRF005 = VX044597.D RRF020 = VX044598.D
RRF050 = VX044599.D RRF100 = VX044600.D RRF150 = VX044601.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Chloromethane	0.736	0.794	0.736	0.736	0.703	0.621	0.721	7.9
Vinyl Chloride	0.629	0.704	0.696	0.710	0.696	0.624	0.676	5.8
Bromomethane		0.380	0.364	0.369	0.369	0.270	0.350	13
Chloroethane	0.482	0.371	0.371	0.324	0.387		0.387	15.1
Trichlorofluoromethane	0.982	1.037	0.991	1.084	1.092	0.855	1.007	8.7
1,1,2-Trichlorotrifluoroethane	0.557	0.586	0.583	0.588	0.596	0.554	0.577	3.1
1,1-Dichloroethene	0.539	0.587	0.549	0.562	0.565	0.553	0.559	3
Acetone	0.310	0.215	0.270	0.275	0.263	0.192	0.254	17
Carbon Disulfide	0.909	1.045	1.058	1.220	1.356	1.352	1.157	15.7
Methyl tert-butyl Ether	1.768	1.979	1.965	2.051	2.012	1.726	1.917	7.1
Methylene Chloride	0.687	0.657	0.661	0.657	0.629	0.598	0.648	4.7
trans-1,2-Dichloroethene	0.554	0.579	0.580	0.580	0.588	0.562	0.574	2.3
1,1-Dichloroethane	1.017	1.181	1.171	1.182	1.156	0.980	1.114	8.2
2-Butanone	0.295	0.393	0.403	0.409	0.399	0.303	0.367	14.4
Carbon Tetrachloride	0.467	0.457	0.491	0.516	0.534	0.488	0.492	5.9
cis-1,2-Dichloroethene	0.601	0.763	0.715	0.731	0.711	0.679	0.700	7.9
Chloroform	1.142	1.316	1.258	1.253	1.210	1.028	1.201	8.5
1,1,1-Trichloroethane	0.848	1.057	1.051	1.087	1.084	0.939	1.011	9.5
Methylcyclohexane	0.512	0.566	0.572	0.580	0.592	0.571	0.566	4.9
Benzene	1.291	1.449	1.463	1.448	1.399	1.324	1.396	5.2
1,2-Dichloroethane	0.473	0.586	0.603	0.599	0.577	0.437	0.546	13.2
Trichloroethene	0.355	0.364	0.358	0.349	0.353	0.362	0.357	1.6
1,2-Dichloropropane	0.314	0.340	0.363	0.362	0.353	0.310	0.340	6.9
Bromodichloromethane	0.401	0.472	0.503	0.524	0.530	0.459	0.482	10
4-Methyl-2-Pentanone	0.361	0.455	0.486	0.491	0.477	0.354	0.437	14.4
Toluene	0.736	0.867	0.896	0.878	0.865	0.811	0.842	7
t-1,3-Dichloropropene	0.330	0.416	0.486	0.519	0.537	0.473	0.460	16.6
cis-1,3-Dichloropropene	0.426	0.480	0.533	0.570	0.575	0.521	0.517	11
1,1,2-Trichloroethane	0.308	0.345	0.349	0.345	0.326	0.308	0.330	5.7
2-Hexanone	0.232	0.310	0.348	0.359	0.348	0.259	0.309	17.1

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

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: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1022 SAS No.: Q1022 SDG No.: Q1022

Instrument ID: MSVOA_X Calibration Date(s): 01/07/2025 01/07/2025

Heated Purge: (Y/N) N Calibration Time(s): 10:06 12:00

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

LAB FILE ID: RRF001 = VX044596.D RRF005 = VX044597.D RRF020 = VX044598.D
RRF050 = VX044599.D RRF100 = VX044600.D RRF150 = VX044601.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dibromochloromethane	0.231	0.305	0.339	0.368	0.371	0.362	0.329	16.4
Tetrachloroethene	0.360	0.370	0.362	0.346	0.338	0.345	0.354	3.5
Chlorobenzene	0.977	1.089	1.086	1.088	1.063	1.065	1.061	4
Ethyl Benzene	1.555	1.854	1.919	1.928	1.895	1.783	1.822	7.8
m/p-Xylenes	0.518	0.677	0.713	0.715	0.711	0.684	0.670	11.4
o-Xylene	0.636	0.650	0.696	0.696	0.693	0.683	0.676	3.8
Styrene	0.790	1.026	1.156	1.187	1.181	1.145	1.081	14.3
Bromoform	0.153	0.200	0.225	0.248	0.271	0.293	0.232	21.9
Isopropylbenzene	3.392	3.801	3.892	3.885	3.740	3.516	3.704	5.6
1,1,2,2-Tetrachloroethane	1.145	1.320	1.227	1.255	1.166	1.051	1.194	7.9
1,3-Dichlorobenzene	1.456	1.659	1.683	1.688	1.629	1.653	1.628	5.4
1,4-Dichlorobenzene	1.762	1.780	1.665	1.685	1.637	1.646	1.696	3.6
1,2-Dichlorobenzene	1.560	1.699	1.669	1.699	1.612	1.630	1.645	3.3
1,2-Dichloroethane-d4		0.919	0.850	0.817	0.819	0.626	0.806	13.5
Dibromofluoromethane		0.354	0.347	0.335	0.348	0.330	0.343	3
Toluene-d8		1.192	1.213	1.156	1.185	1.109	1.171	3.5
4-Bromofluorobenzene		0.404	0.416	0.415	0.432	0.400	0.413	3

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

Response Factor Report MSVOA_X

Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
Method File : 82X010725W.M
Title : SW846 8260
Last Update : Wed Jan 08 03:57:12 2025
Response Via : Initial Calibration

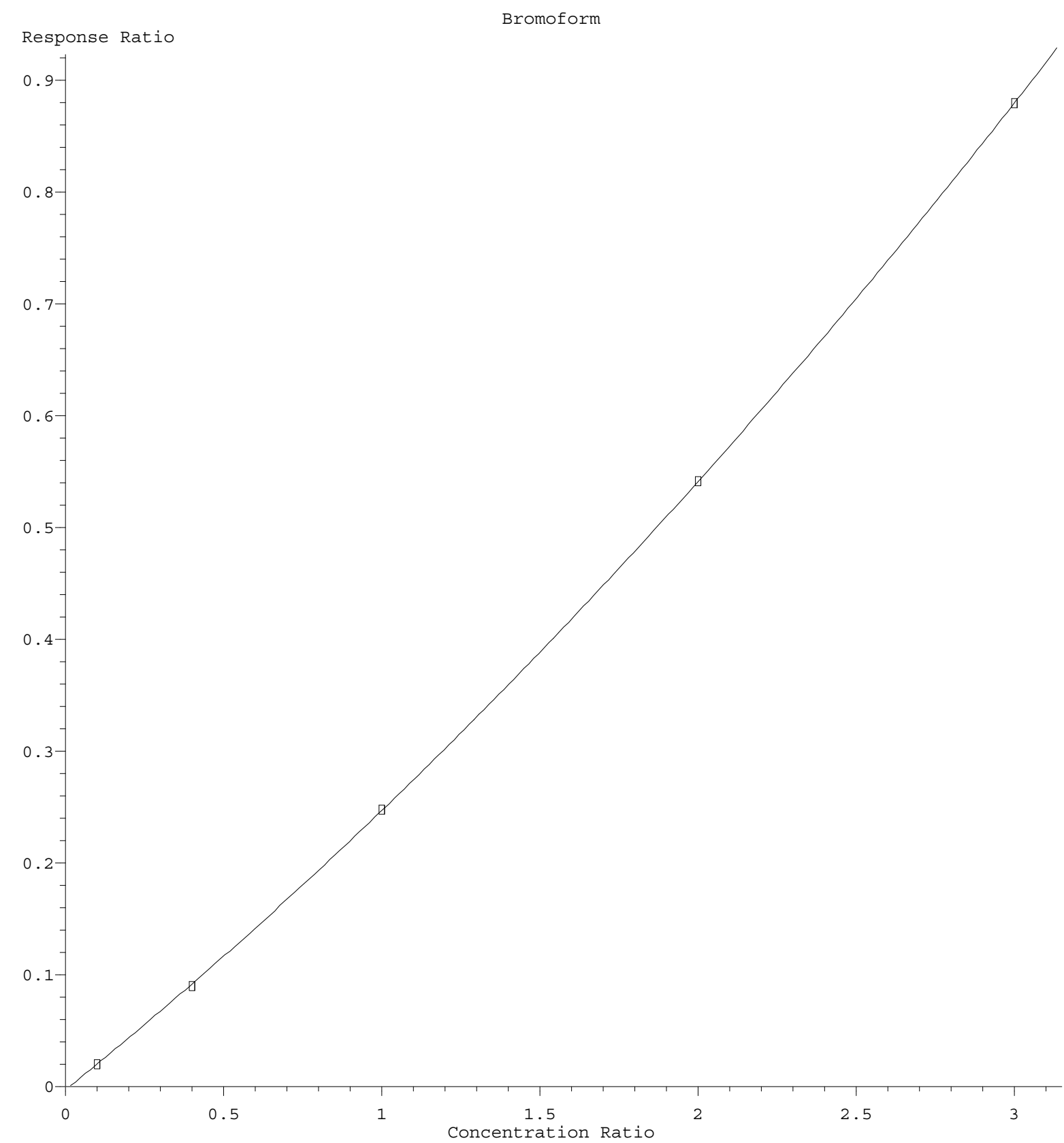
Calibration Files
1 =VX044596.D 5 =VX044597.D 20 =VX044598.D 50 =VX044599.D 100 =VX044600.D 150 =VX044601.D

		Compound	1	5	20	50	100	150	Avg	%RSD
1)	I	Pentafluorobenzene	----------ISTD----------							
2)	T	Dichlorodifluo...	0.686	0.708	0.713	0.779	0.772	0.682	0.723	5.86
3)	P	Chloromethane	0.736	0.794	0.736	0.736	0.703	0.621	0.721	7.93
4)	C	Vinyl Chloride	0.629	0.704	0.696	0.710	0.696	0.624	0.676	5.77#
5)	T	Bromomethane		0.380	0.364	0.369	0.369	0.270	0.350	12.97
6)	T	Chloroethane	0.482	0.371	0.371	0.324	0.387		0.387	15.08
7)	T	Trichlorofluor...	0.982	1.037	0.991	1.084	1.092	0.855	1.007	8.65
8)	T	Diethyl Ether	0.404	0.324	0.383	0.350	0.377	0.297	0.356	11.28
9)	T	1,1,2-Trichlor...	0.557	0.586	0.583	0.588	0.596	0.554	0.577	3.06
10)	T	Methyl Iodide		0.839	0.795	0.811	0.792	0.789	0.805	2.58
11)	T	Tert butyl alc...		0.113	0.096	0.101	0.102	0.084	0.099	10.62
12)	CM	1,1-Dichloroet...	0.539	0.587	0.549	0.562	0.565	0.553	0.559	2.96#
13)	T	Acrolein		0.133	0.128	0.133	0.142	0.120	0.131	6.16
14)	T	Allyl chloride	0.865	0.904	0.954	1.012	1.019	0.827	0.930	8.41
15)	T	Acrylonitrile	0.265	0.301	0.299	0.306	0.295	0.251	0.286	7.86
16)	T	Acetone	0.310	0.215	0.270	0.275	0.263	0.192	0.254	16.97
17)	T	Carbon Disulfide	0.909	1.045	1.058	1.220	1.356	1.352	1.157	15.73
18)	T	Methyl Acetate	0.772	0.799	0.762	0.776	0.774	0.617	0.750	8.83
19)	T	Methyl tert-bu...	1.768	1.979	1.965	2.051	2.012	1.726	1.917	7.06
20)	T	Methylene Chlo...	0.687	0.657	0.661	0.657	0.629	0.598	0.648	4.74
21)	T	trans-1,2-Dich...	0.554	0.579	0.580	0.580	0.588	0.562	0.574	2.26
22)	T	Diisopropyl ether	1.709	2.084	2.026	2.082	2.021	1.552	1.912	11.80
23)	T	Vinyl Acetate	1.181	1.533	1.673	1.779	1.790	1.322	1.546	16.20
24)	P	1,1-Dichloroet...	1.017	1.181	1.171	1.182	1.156	0.980	1.114	8.17
25)	T	2-Butanone	0.295	0.393	0.403	0.409	0.399	0.303	0.367	14.44
26)	T	2,2-Dichloropr...	0.943	0.957	0.992	1.008	1.024	0.855	0.963	6.34
27)	T	cis-1,2-Dichlo...	0.601	0.763	0.715	0.731	0.711	0.679	0.700	7.95
28)	T	Bromochloromet...	0.521	0.542	0.550	0.548	0.528	0.423	0.519	9.27
29)	T	Tetrahydrofuran	0.248	0.267	0.265	0.265	0.262	0.200	0.251	10.43
30)	C	Chloroform	1.142	1.316	1.258	1.253	1.210	1.028	1.201	8.54#
31)	T	Cyclohexane		0.912	0.950	0.953	0.942	0.818	0.915	6.16
32)	T	1,1,1-Trichlor...	0.848	1.057	1.051	1.087	1.084	0.939	1.011	9.54
33)	S	1,2-Dichloroet...		0.919	0.850	0.817	0.819	0.626	0.806	13.52
34)	I	1,4-Difluorobenzene	----------ISTD----------							
35)	S	Dibromofluorom...		0.354	0.347	0.335	0.348	0.330	0.343	2.96
36)	T	1,1-Dichloropr...	0.393	0.457	0.461	0.466	0.464	0.420	0.443	6.72
37)	T	Ethyl Acetate	0.414	0.453	0.495	0.491	0.492	0.376	0.454	10.87
38)	T	Carbon Tetrach...	0.467	0.457	0.491	0.516	0.534	0.488	0.492	5.92
39)	T	Methylcyclohexane	0.512	0.566	0.572	0.580	0.592	0.571	0.566	4.89
40)	TM	Benzene	1.291	1.449	1.463	1.448	1.399	1.324	1.396	5.19
41)	T	Methacrylonitrile	0.185	0.254	0.269	0.273	0.277	0.203	0.243	16.14
42)	TM	1,2-Dichloroet...	0.473	0.586	0.603	0.599	0.577	0.437	0.546	13.17
43)	T	Isopropyl Acetate	0.658	0.759	0.798	0.819	0.823	0.632	0.748	11.14
44)	TM	Trichloroethene	0.355	0.364	0.358	0.349	0.353	0.362	0.357	1.56
45)	C	1,2-Dichloropr...	0.314	0.340	0.363	0.362	0.353	0.310	0.340	6.93#
46)	T	Dibromomethane	0.254	0.268	0.277	0.276	0.269	0.244	0.265	4.90
47)	T	Bromodichlorom...	0.401	0.472	0.503	0.524	0.530	0.459	0.482	10.04
48)	T	Methyl methacr...	0.285	0.348	0.387	0.411	0.404	0.307	0.357	14.77
49)	T	1,4-Dioxane	0.004	0.005	0.006	0.006	0.005	0.005	0.005	13.22
50)	S	Toluene-d8		1.192	1.213	1.156	1.185	1.109	1.171	3.46
51)	T	4-Methyl-2-Pen...	0.361	0.455	0.486	0.491	0.477	0.354	0.437	14.43
52)	CM	Toluene	0.736	0.867	0.896	0.878	0.865	0.811	0.842	7.02#
53)	T	t-1,3-Dichloro...	0.330	0.416	0.486	0.519	0.537	0.473	0.460	16.56
54)	T	cis-1,3-Dichlo...	0.426	0.480	0.533	0.570	0.575	0.521	0.517	10.98
55)	T	1,1,2-Trichlor...	0.308	0.345	0.349	0.345	0.326	0.308	0.330	5.73

Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
Method File : 82X010725W.M

56)	T	Ethyl methacry...	0.350	0.455	0.506	0.545	0.541	0.485	0.480	15.04
57)	T	1,3-Dichloropr...	0.464	0.584	0.609	0.598	0.566	0.506	0.554	10.35
58)	T	2-Chloroethyl ...	0.200	0.226	0.248	0.263	0.264	0.227	0.238	10.43
59)	T	2-Hexanone	0.232	0.310	0.348	0.359	0.348	0.259	0.309	17.05
60)	T	Dibromochlorom...	0.231	0.305	0.339	0.368	0.371	0.362	0.329	16.41
61)	T	1,2-Dibromoethane	0.282	0.340	0.359	0.349	0.344	0.327	0.333	8.18
62)	S	4-Bromofluorob...		0.404	0.416	0.415	0.432	0.400	0.413	2.95
63)	I	Chlorobenzene-d5	----------ISTD----------							
64)	T	Tetrachloroethene	0.360	0.370	0.362	0.346	0.338	0.345	0.354	3.49
65)	PM	Chlorobenzene	0.977	1.089	1.086	1.088	1.063	1.065	1.061	4.04
66)	T	1,1,1,2-Tetrac...	0.286	0.341	0.366	0.370	0.379	0.373	0.352	9.90
67)	C	Ethyl Benzene	1.555	1.854	1.919	1.928	1.895	1.783	1.822	7.76#
68)	T	m/p-Xylenes	0.518	0.677	0.713	0.715	0.711	0.684	0.670	11.35
69)	T	o-Xylene	0.636	0.650	0.696	0.696	0.693	0.683	0.676	3.85
70)	T	Styrene	0.790	1.026	1.156	1.187	1.181	1.145	1.081	14.26
71)	P	Bromoform	0.153	0.200	0.225	0.248	0.271	0.293	0.232	21.87
72)	I	1,4-Dichlorobenzen...	----------ISTD----------							
73)	T	Isopropylbenzene	3.392	3.801	3.892	3.885	3.740	3.516	3.704	5.55
74)	T	N-amyl acetate	1.108	1.537	1.580	1.709	1.745	1.339	1.503	16.05
75)	P	1,1,2,2-Tetrac...	1.145	1.320	1.227	1.255	1.166	1.051	1.194	7.87
76)	T	1,2,3-Trichlor...	1.014	1.055	1.038	1.043	0.996	0.869	1.002	6.86
77)	T	Bromobenzene	0.799	0.974	0.910	0.926	0.894	0.897	0.900	6.38
78)	T	n-propylbenzene	3.430	4.370	4.397	4.501	4.369	3.967	4.172	9.76
79)	T	2-Chlorotoluene	2.756	2.882	2.777	2.787	2.629	2.391	2.704	6.41
80)	T	1,3,5-Trimethy...	2.473	3.331	3.270	3.304	3.160	2.891	3.071	10.89
81)	T	trans-1,4-Dich...		0.262	0.297	0.357	0.374	0.357	0.329	14.55
82)	T	4-Chlorotoluene	2.847	3.223	3.173	3.200	3.064	2.744	3.042	6.61
83)	T	tert-Butylbenzene	2.630	3.226	3.104	3.225	3.121	3.043	3.058	7.24
84)	T	1,2,4-Trimethy...	2.634	3.061	3.354	3.315	3.152	2.995	3.085	8.47
85)	T	sec-Butylbenzene	3.131	3.853	3.913	3.921	3.842	3.688	3.725	8.12
86)	T	p-Isopropyltol...	2.484	3.154	3.271	3.369	3.298	3.175	3.125	10.37
87)	T	1,3-Dichlorobe...	1.456	1.659	1.683	1.688	1.629	1.653	1.628	5.35
88)	T	1,4-Dichlorobe...	1.762	1.780	1.665	1.685	1.637	1.646	1.696	3.59
89)	T	n-Butylbenzene	1.967	2.497	2.753	2.929	2.977	2.711	2.639	14.06
90)	T	Hexachloroethane	0.496	0.427	0.454	0.518	0.558	0.559	0.502	10.73
91)	T	1,2-Dichlorobe...	1.560	1.699	1.669	1.699	1.612	1.630	1.645	3.33
92)	T	1,2-Dibromo-3-...	0.197	0.208	0.221	0.249	0.257	0.226	0.226	10.22
93)	T	1,2,4-Trichlor...	0.818	0.899	0.942	0.995	1.024	1.123	0.967	10.91
94)	T	Hexachlorobuta...	0.363	0.403	0.391	0.407	0.412	0.439	0.403	6.17
95)	T	Naphthalene	2.119	2.828	3.227	3.403	3.436	3.703	3.120	18.24
96)	T	1,2,3-Trichlor...	0.849	0.922	0.992	1.019	1.022	1.124	0.988	9.51

(#) = Out of Range



R = 2.220e-002 A*A + 2.276e-001 A - 2.772e-003
Coef of Det (r^2) = 0.999991 Curve Fit: Quadratic
Method Name: Z:\corpsrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Calibration Table Last Updated: Wed Jan 08 03:57:12 2025

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044596.D
Acq On : 07 Jan 2025 10:06
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

Quant Time: Jan 08 02:56:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 02:50:31 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	171763	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	304446	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	256598	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	105249	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	0.000	65	0d	0.000	ug/l	
Spiked Amount 50.000	Range 74 - 125		Recovery =	0.000%#		
35) Dibromofluoromethane	0.000	113	0d	0.000	ug/l	
Spiked Amount 50.000	Range 75 - 124		Recovery =	0.000%#		
50) Toluene-d8	0.000	98	0d	0.000	ug/l	
Spiked Amount 50.000	Range 86 - 113		Recovery =	0.000%#		
62) 4-Bromofluorobenzene	0.000	95	0d	0.000	ug/l	
Spiked Amount 50.000	Range 77 - 121		Recovery =	0.000%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	2356	0.948	ug/l	87
3) Chloromethane	1.294	50	2528	1.021	ug/l	90
4) Vinyl Chloride	1.374	62	2161	0.930	ug/l	98
6) Chloroethane	1.666	64	1657	1.343	ug/l #	84
7) Trichlorofluoromethane	1.873	101	3373	0.975	ug/l	85
8) Diethyl Ether	2.136	74	1388	1.136	ug/l	92
9) 1,1,2-Trichlorotrifluo...	2.325	101	1913m	0.964	ug/l	
12) 1,1-Dichloroethene	2.312	96	1851	0.963	ug/l	89
14) Allyl chloride	2.654	41	2973	0.930	ug/l	96
15) Acrylonitrile	3.068	53	4546	4.629	ug/l	99
16) Acetone	2.386	43	5331	6.107	ug/l #	75
17) Carbon Disulfide	2.508	76	3121	0.785	ug/l	96
18) Methyl Acetate	2.697	43	2652	1.029	ug/l	92
19) Methyl tert-butyl Ether	3.111	73	6074	0.922	ug/l	96
20) Methylene Chloride	2.788	84	2360	1.060	ug/l	97
21) trans-1,2-Dichloroethene	3.087	96	1904	0.965	ug/l #	76
22) Diisopropyl ether	3.763	45	5870	0.894	ug/l #	57
23) Vinyl Acetate	3.727	43	20280	3.818	ug/l	99
24) 1,1-Dichloroethane	3.611	63	3494	0.913	ug/l #	86
25) 2-Butanone	4.593	43	5065	4.020	ug/l	91
26) 2,2-Dichloropropane	4.471	77	3241	0.979	ug/l	81
27) cis-1,2-Dichloroethene	4.483	96	2066	0.859	ug/l	90
28) Bromochloromethane	4.891	49	1791	1.005	ug/l #	88
29) Tetrahydrofuran	5.019	42	4263	4.941	ug/l	98
30) Chloroform	5.092	83	3923	0.951	ug/l #	83
32) 1,1,1-Trichloroethane	5.385	97	2914	0.839	ug/l #	46
36) 1,1-Dichloropropene	5.696	75	2395	0.887	ug/l #	86
37) Ethyl Acetate	4.739	43	2519m	0.912	ug/l	
38) Carbon Tetrachloride	5.659	117	2842	0.949	ug/l #	74
39) Methylcyclohexane	7.373	83	3120	0.906	ug/l #	81
40) Benzene	6.043	78	7861	0.925	ug/l #	90
41) Methacrylonitrile	4.934	41	1129m	0.762	ug/l	
42) 1,2-Dichloroethane	6.098	62	2879	0.866	ug/l	92
43) Isopropyl Acetate	6.361	43	4006m	0.879	ug/l	
44) Trichloroethene	7.147	130	2161m	0.995	ug/l	
45) 1,2-Dichloropropane	7.433	63	1913	0.923	ug/l	93

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044596.D
Acq On : 07 Jan 2025 10:06
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 08 02:56:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 02:50:31 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
46) Dibromomethane	7.580	93	1547	0.960 ug/l	87
47) Bromodichloromethane	7.824	83	2442	0.833 ug/l #	88
48) Methyl methacrylate	7.720	41	1733m	0.798 ug/l	
49) 1,4-Dioxane	7.702	88	483m	15.126 ug/l	
51) 4-Methyl-2-Pentanone	8.574	43	10986	4.125 ug/l	100
52) Toluene	8.720	92	4484	0.874 ug/l	97
53) t-1,3-Dichloropropene	8.994	75	2011	0.717 ug/l #	87
54) cis-1,3-Dichloropropene	8.366	75	2591	0.822 ug/l #	87
55) 1,1,2-Trichloroethane	9.153	97	1876	0.933 ug/l	89
56) Ethyl methacrylate	9.128	69	2131	0.729 ug/l #	84
57) 1,3-Dichloropropane	9.311	76	2823	0.836 ug/l	99
58) 2-Chloroethyl Vinyl ether	8.250	63	6102	4.210 ug/l	96
59) 2-Hexanone	9.445	43	7059	3.748 ug/l	92
60) Dibromochloromethane	9.518	129	1408	0.702 ug/l	78
61) 1,2-Dibromoethane	9.610	107	1717	0.846 ug/l	92
64) Tetrachloroethene	9.269	164	1846	1.018 ug/l	91
65) Chlorobenzene	10.073	112	5014	0.921 ug/l	97
66) 1,1,1,2-Tetrachloroethane	10.153	131	1470	0.813 ug/l #	64
67) Ethyl Benzene	10.195	91	7980	0.853 ug/l	98
68) m/p-Xylenes	10.305	106	5317	1.547 ug/l	93
69) o-Xylene	10.640	106	3266	0.942 ug/l	81
70) Styrene	10.659	104	4055	0.731 ug/l	87
71) Bromoform	10.805	173	784	1.277 ug/l #	96
73) Isopropylbenzene	10.963	105	7140	0.916 ug/l	97
74) N-amyl acetate	10.854	43	2332	0.737 ug/l	96
75) 1,1,2,2-Tetrachloroethane	11.207	83	2410	0.959 ug/l	98
76) 1,2,3-Trichloropropane	11.238	75	2134m	1.011 ug/l	
77) Bromobenzene	11.201	156	1682	0.888 ug/l	95
78) n-propylbenzene	11.305	91	7221	0.822 ug/l	97
79) 2-Chlorotoluene	11.366	91	5802	1.019 ug/l	94
80) 1,3,5-Trimethylbenzene	11.451	105	5205	0.805 ug/l	97
82) 4-Chlorotoluene	11.457	91	5992	0.936 ug/l	91
83) tert-Butylbenzene	11.713	119	5537	0.860 ug/l	95
84) 1,2,4-Trimethylbenzene	11.750	105	5545	0.854 ug/l	96
85) sec-Butylbenzene	11.890	105	6591	0.841 ug/l	98
86) p-Isopropyltoluene	12.006	119	5229	0.795 ug/l	91
87) 1,3-Dichlorobenzene	11.969	146	3064	0.894 ug/l	96
88) 1,4-Dichlorobenzene	12.042	146	3710m	1.039 ug/l	
89) n-Butylbenzene	12.335	91	4140	0.745 ug/l	92
90) Hexachloroethane	12.536	117	1044	0.988 ug/l	82
91) 1,2-Dichlorobenzene	12.341	146	3284	0.948 ug/l	93
92) 1,2-Dibromo-3-Chloropr...	12.945	75	415	0.871 ug/l	89
93) 1,2,4-Trichlorobenzene	13.591	180	1722	0.846 ug/l	90
94) Hexachlorobutadiene	13.719	225	765	0.903 ug/l	92
95) Naphthalene	13.780	128	4461	0.679 ug/l	98
96) 1,2,3-Trichlorobenzene	13.963	180	1788	0.859 ug/l	90

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

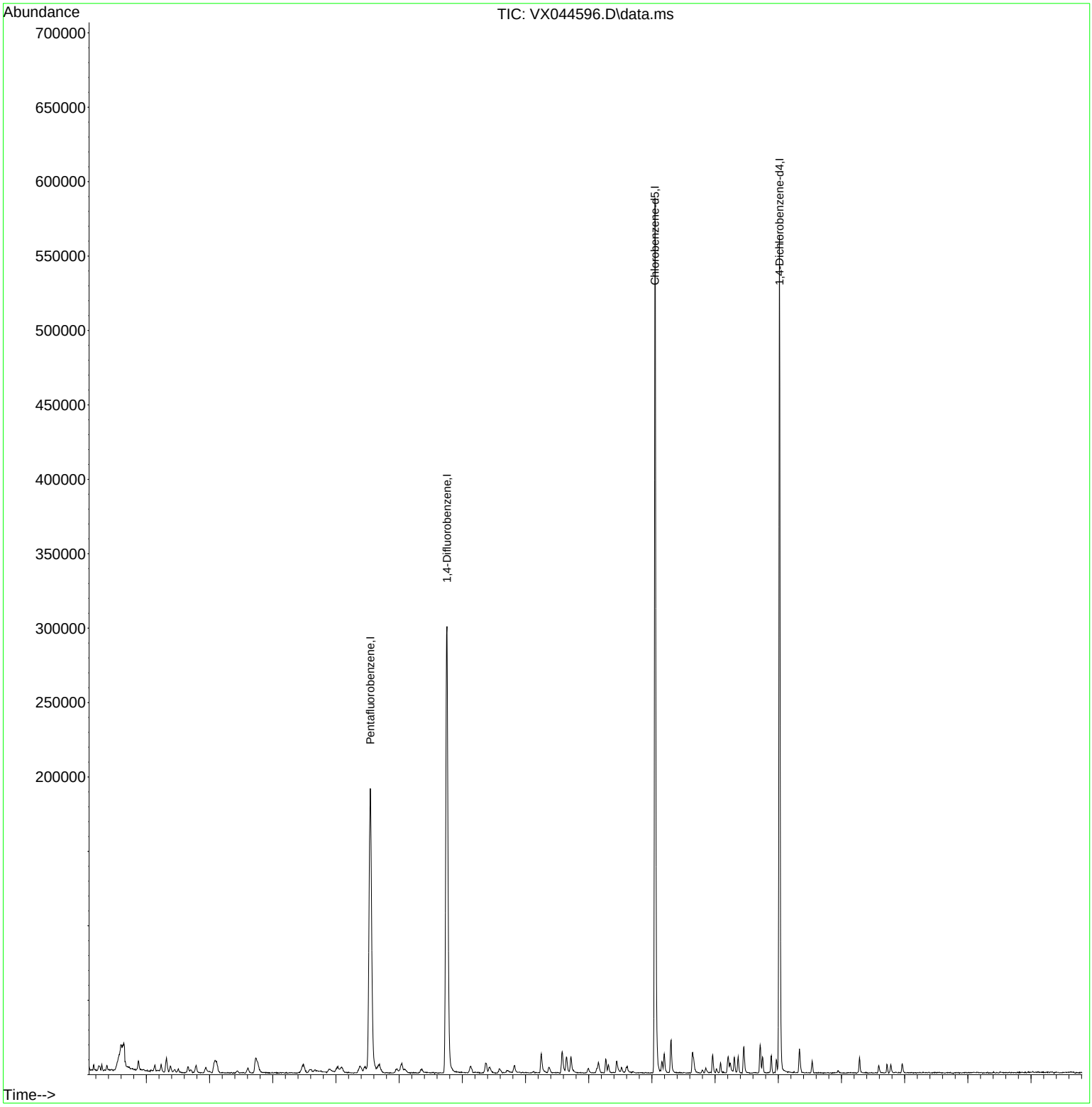
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044596.D
Acq On : 07 Jan 2025 10:06
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 3 Sample Multiplier: 1

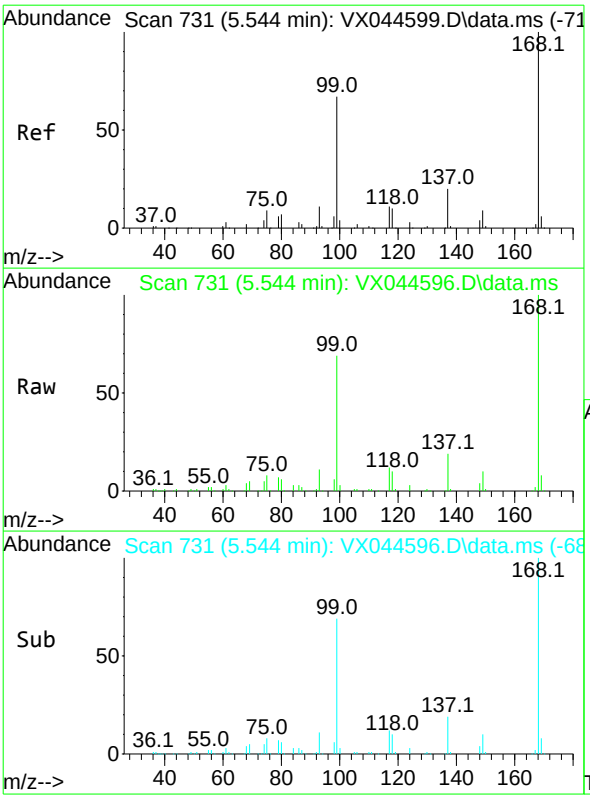
Quant Time: Jan 08 02:56:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 02:50:31 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

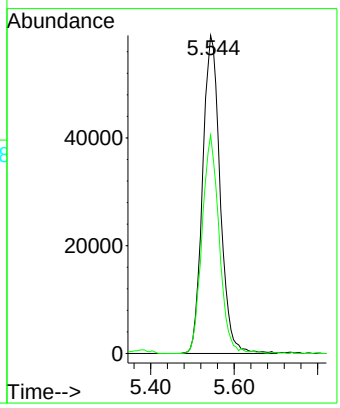




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 73
Delta R.T. -0.000 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion:168 Resp: 171763

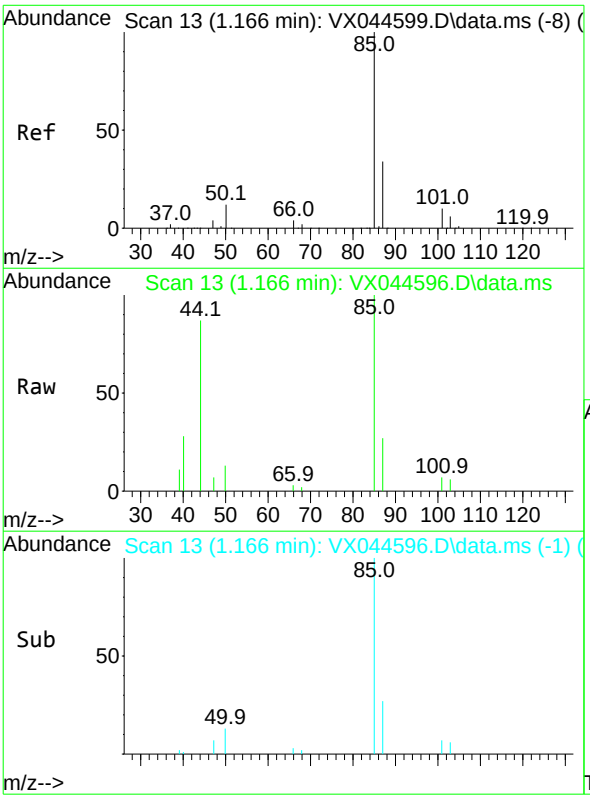
Ion	Ratio	Lower	Upper
168	100		
99	68.6	53.5	80.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

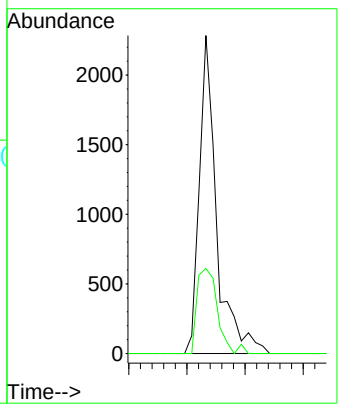
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

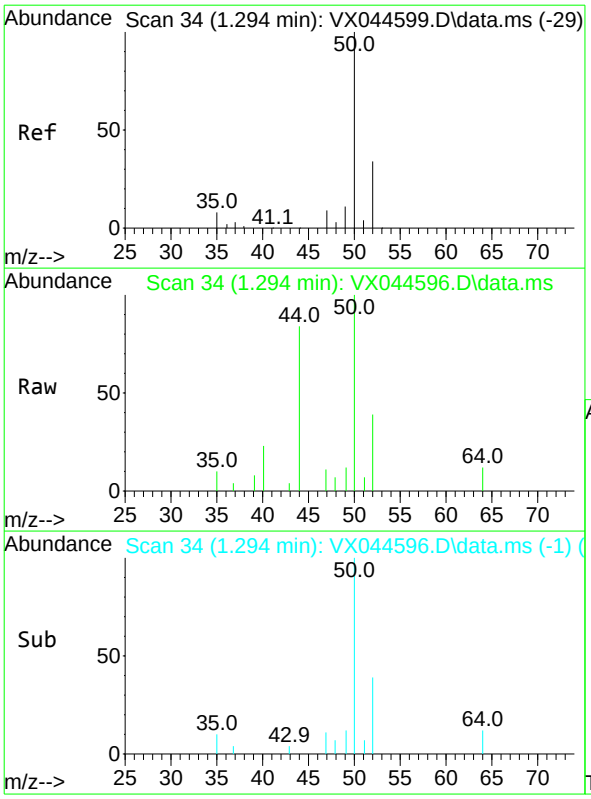


#2
Dichlorodifluoromethane
Concen: 0.948 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 85 Resp: 2356

Ion	Ratio	Lower	Upper
85	100		
87	26.8	17.2	51.5

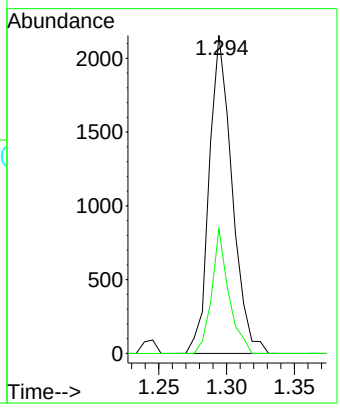




#3
Chloromethane
Concen: 1.021 ug/l
RT: 1.294 min Scan# 34
Delta R.T. -0.000 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 50 Resp: 2528

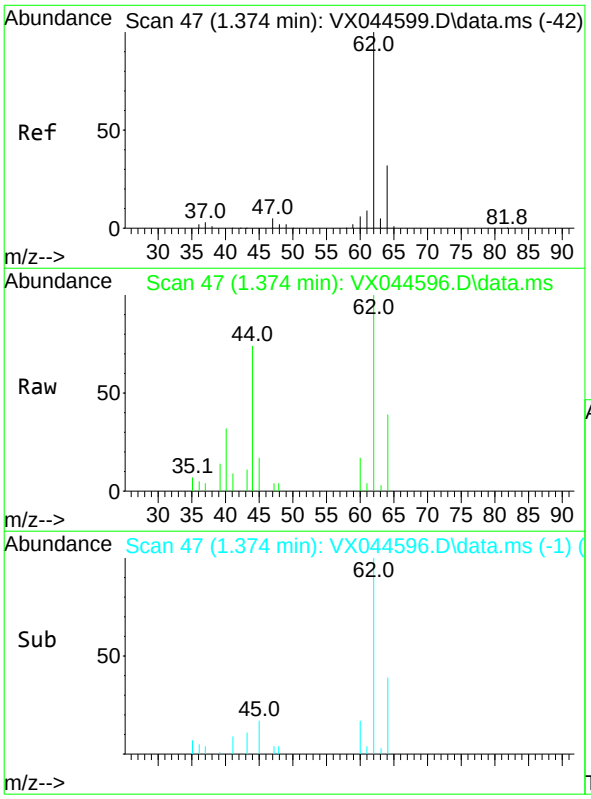
Ion	Ratio	Lower	Upper
50	100		
52	39.2	27.0	40.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

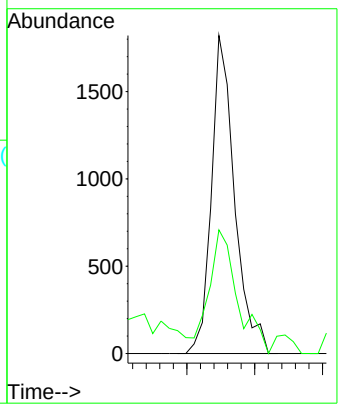
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

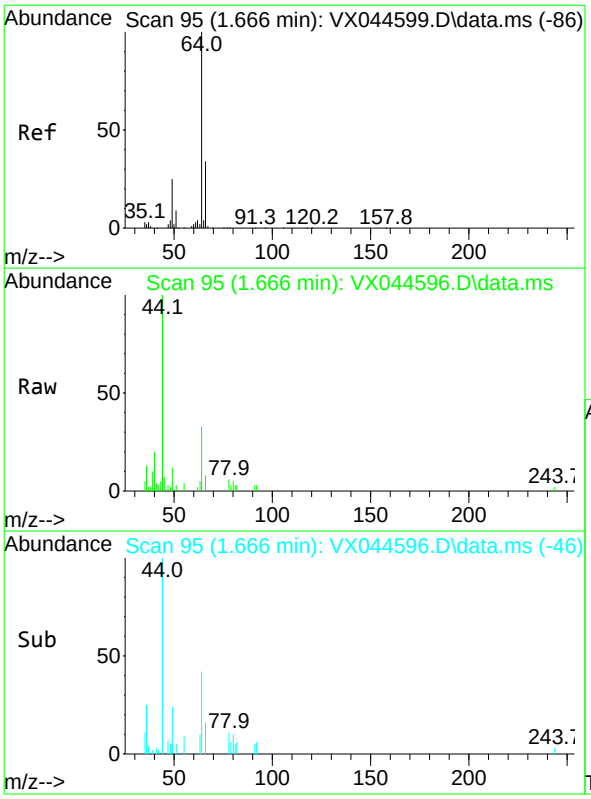


#4
Vinyl Chloride
Concen: 0.930 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 62 Resp: 2161

Ion	Ratio	Lower	Upper
62	100		
64	33.4	26.0	39.0

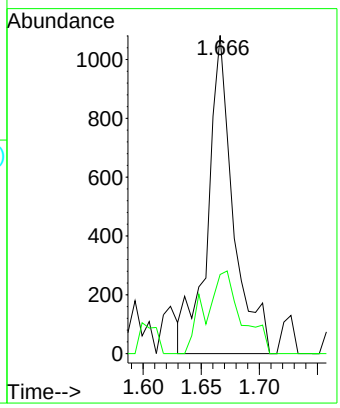




#6
Chloroethane
Concen: 1.343 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.000 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 64 Resp: 1657

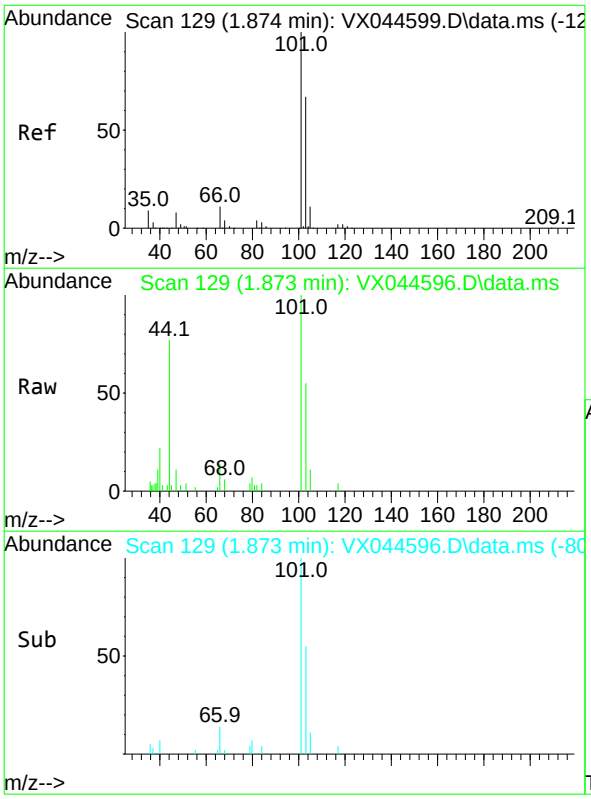
Ion	Ratio	Lower	Upper
64	100		
66	24.9	27.3	40.9#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

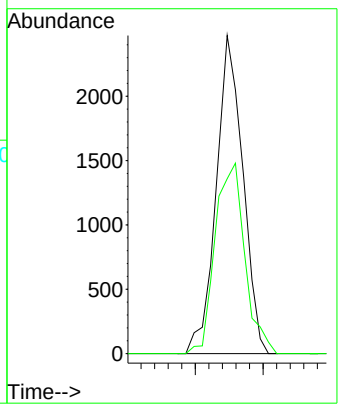
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

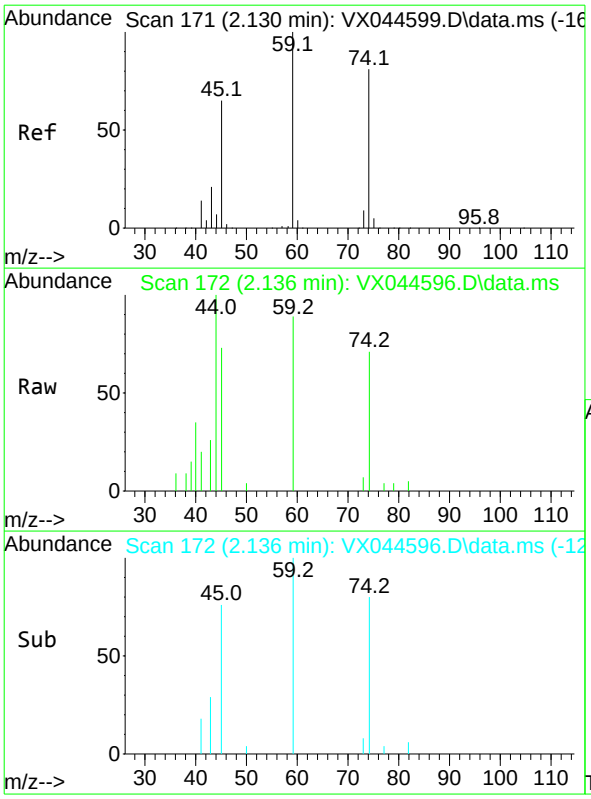


#7
Trichlorofluoromethane
Concen: 0.975 ug/l
RT: 1.873 min Scan# 129
Delta R.T. -0.000 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion:101 Resp: 3373

Ion	Ratio	Lower	Upper
101	100		
103	55.0	53.3	79.9

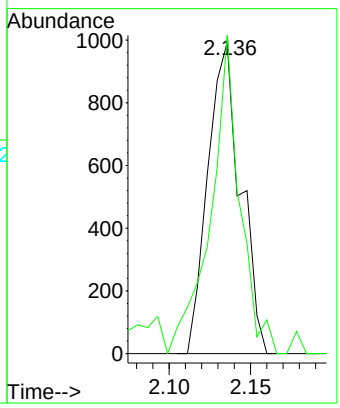




#8
Diethyl Ether
Concen: 1.136 ug/l
RT: 2.136 min Scan# 17
Delta R.T. 0.006 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 74 Resp: 1388

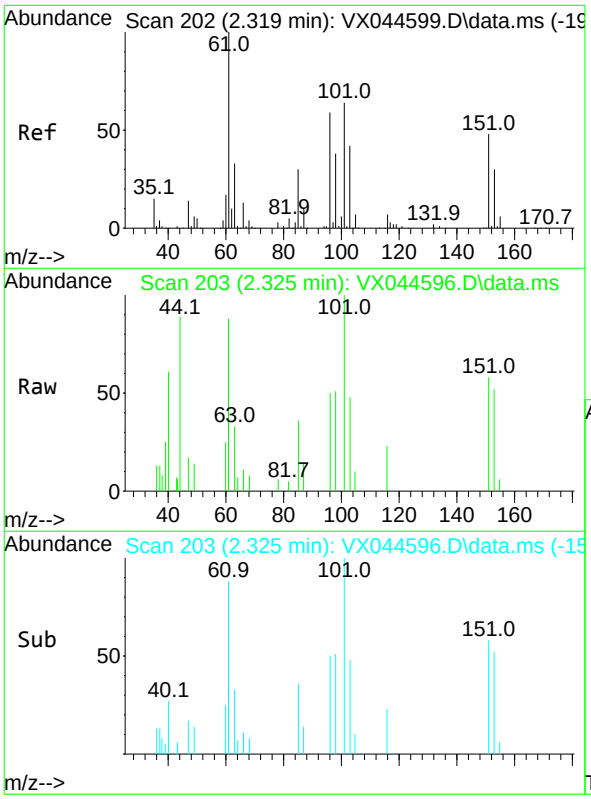
Ion	Ratio	Lower	Upper
74	100		
45	90.7	41.7	125.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

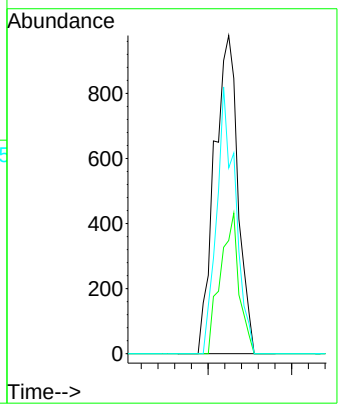
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

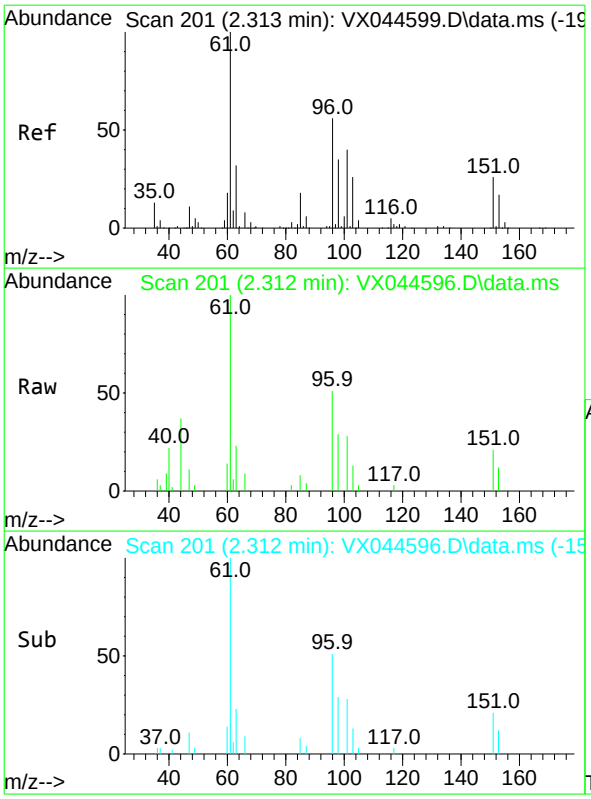


#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.964 ug/l m
RT: 2.325 min Scan# 203
Delta R.T. 0.006 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion:101 Resp: 1913

Ion	Ratio	Lower	Upper
101	100		
85	0.0	36.5	54.7#
151	0.0	58.6	87.8#

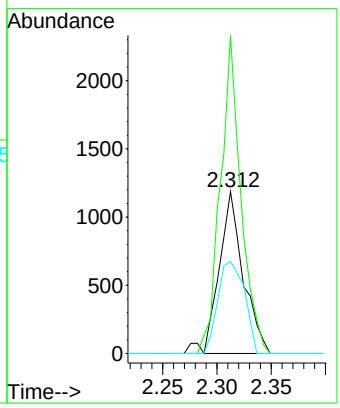




#12
1,1-Dichloroethene
Concen: 0.963 ug/l
RT: 2.312 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 96 Resp: 1851

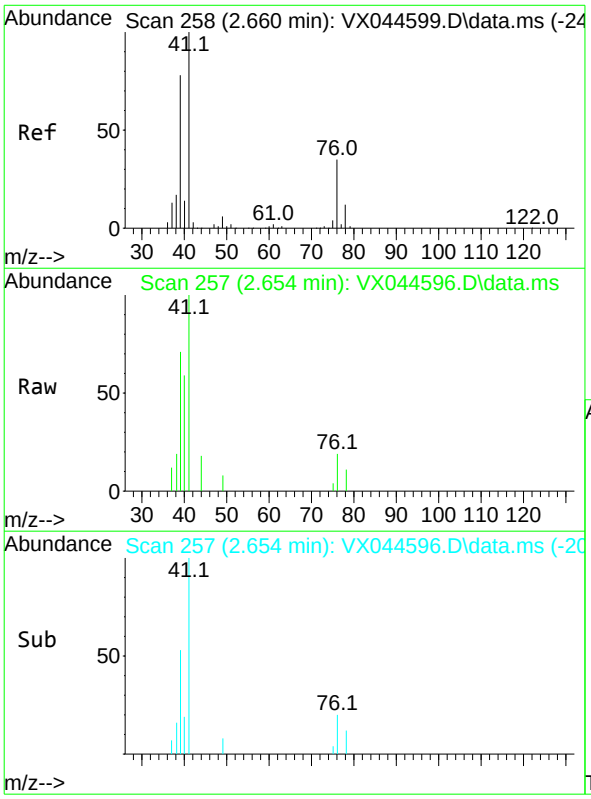
Ion	Ratio	Lower	Upper
96	100		
61	196.3	143.3	214.9
98	56.7	50.6	76.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

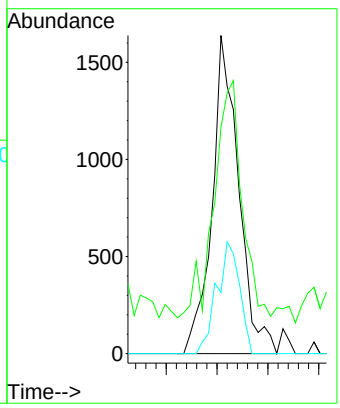
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

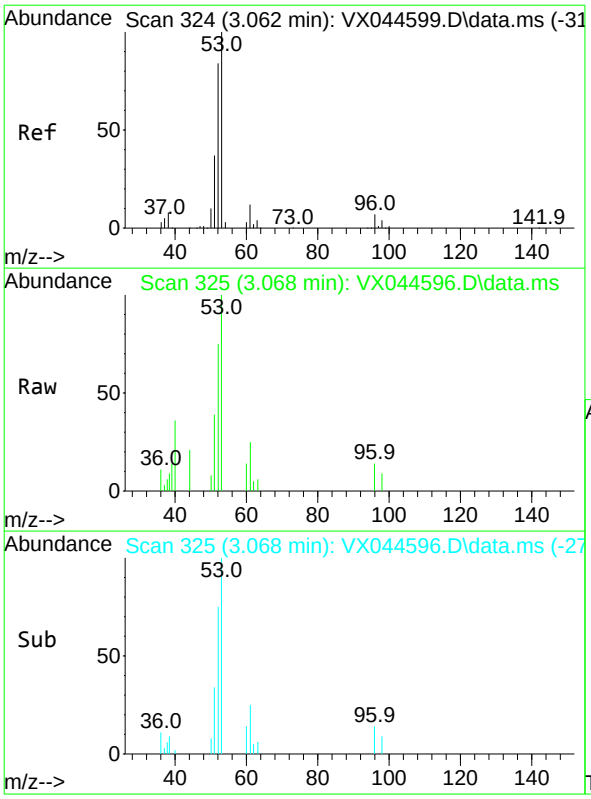


#14
Allyl chloride
Concen: 0.930 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.006 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 41 Resp: 2973

Ion	Ratio	Lower	Upper
41	100		
39	77.9	60.2	90.2
76	30.0	25.9	38.9

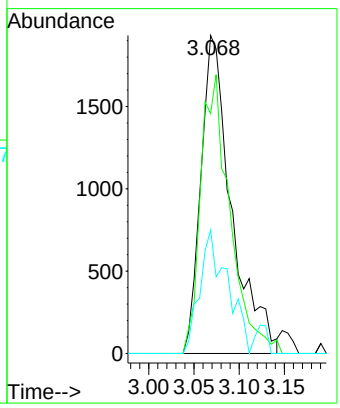




#15
Acrylonitrile
Concen: 4.629 ug/l
RT: 3.068 min Scan# 32
Delta R.T. 0.006 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 53 Resp: 4546

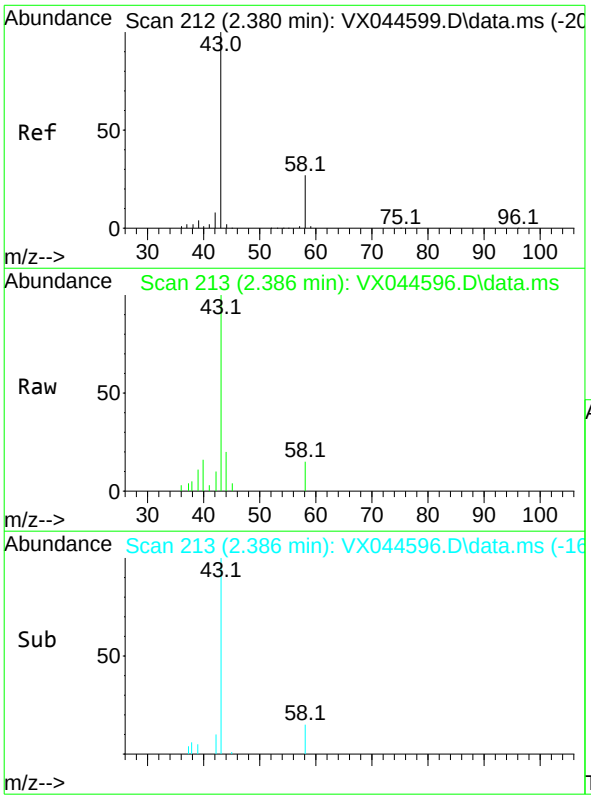
Ion	Ratio	Lower	Upper
53	100		
52	83.8	67.0	100.6
51	35.1	29.4	44.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

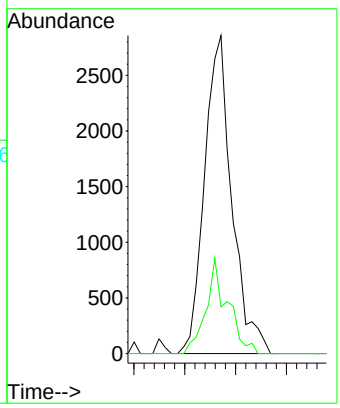
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

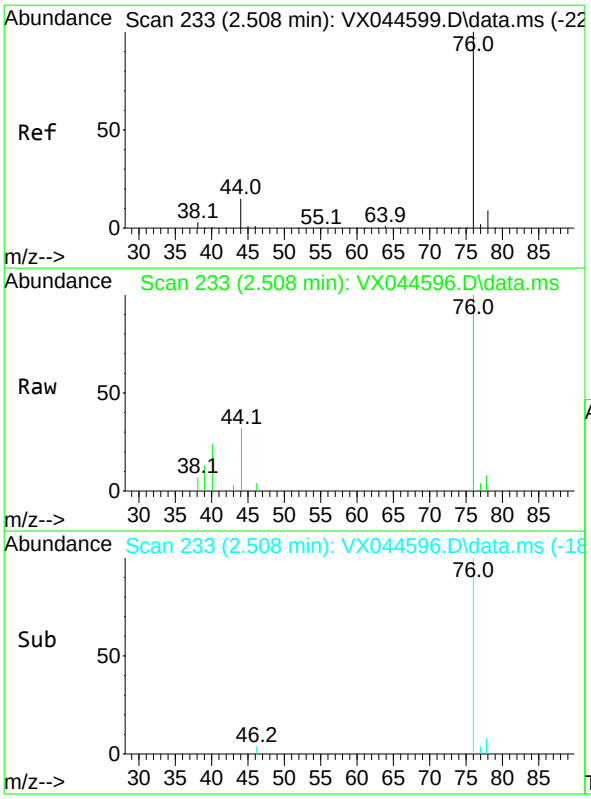


#16
Acetone
Concen: 6.107 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.006 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 43 Resp: 5331

Ion	Ratio	Lower	Upper
43	100		
58	14.7	22.0	33.0#

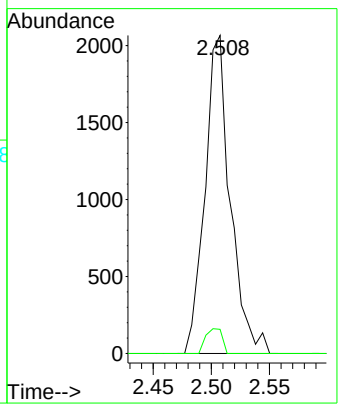




#17
Carbon Disulfide
Concen: 0.785 ug/l
RT: 2.508 min Scan# 23
Delta R.T. -0.000 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 76 Resp: 3121

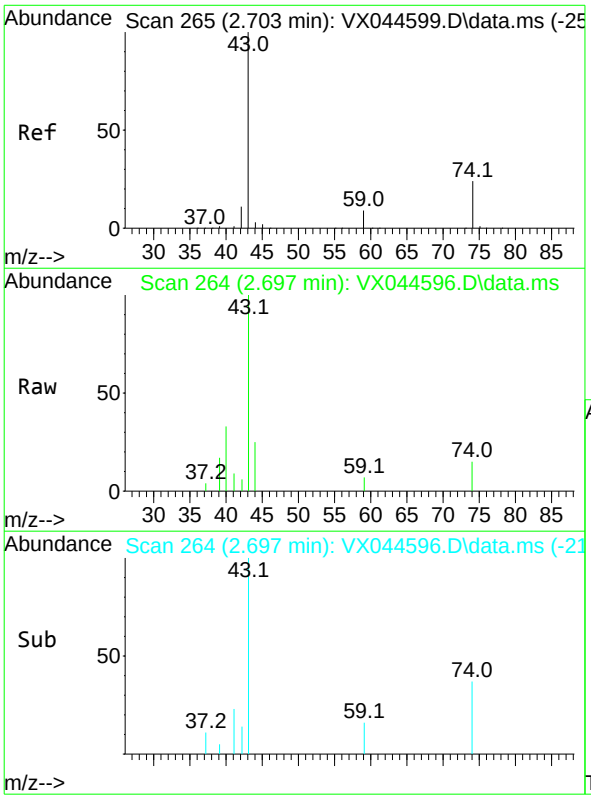
Ion	Ratio	Lower	Upper
76	100		
78	7.6	7.1	10.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

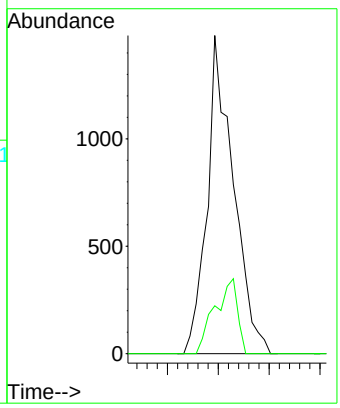
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

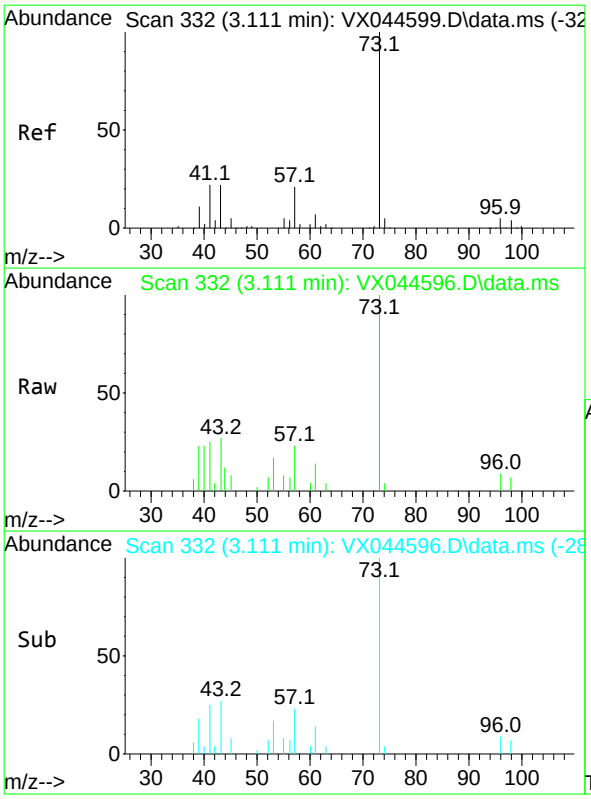


#18
Methyl Acetate
Concen: 1.029 ug/l
RT: 2.697 min Scan# 264
Delta R.T. -0.006 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 43 Resp: 2652

Ion	Ratio	Lower	Upper
43	100		
74	20.4	19.3	28.9

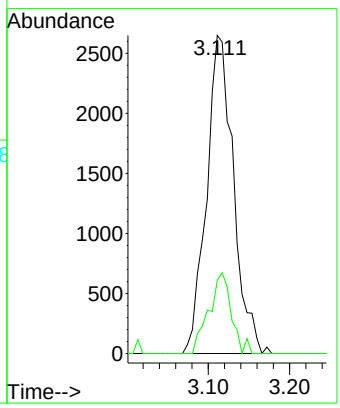




#19
Methyl tert-butyl Ether
Concen: 0.922 ug/l
RT: 3.111 min Scan# 33
Delta R.T. -0.000 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 73 Resp: 6074

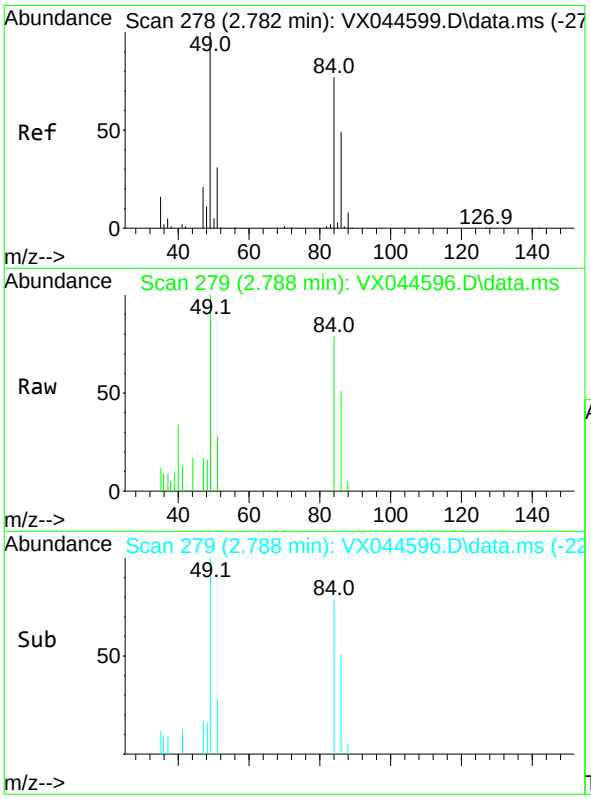
Ion	Ratio	Lower	Upper
73	100		
57	23.0	17.0	25.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

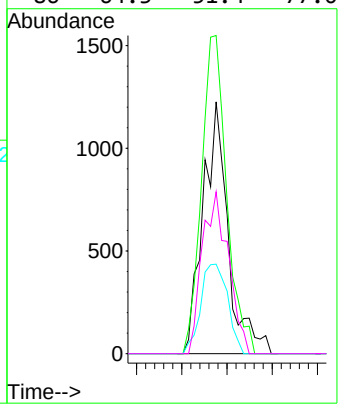
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

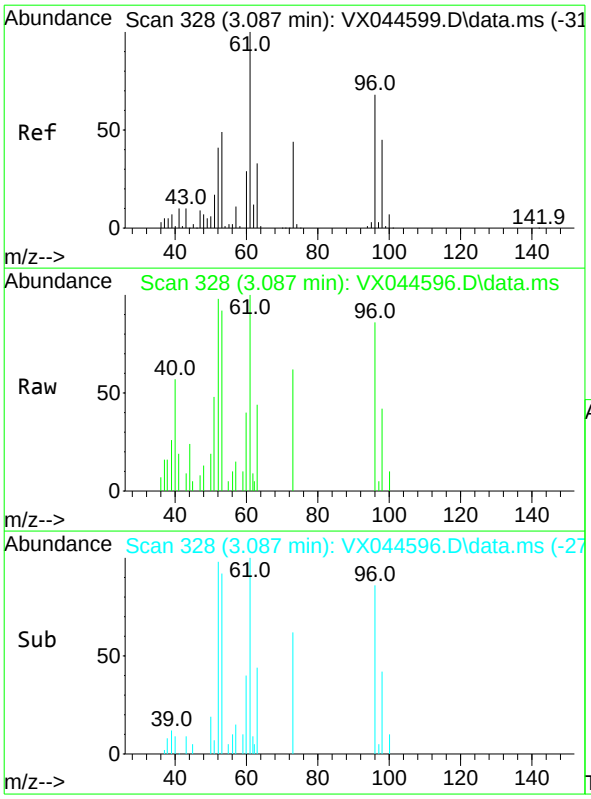


#20
Methylene Chloride
Concen: 1.060 ug/l
RT: 2.788 min Scan# 279
Delta R.T. 0.006 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 84 Resp: 2360

Ion	Ratio	Lower	Upper
84	100		
49	126.3	104.4	156.6
51	35.6	32.0	48.0
86	64.3	51.4	77.0

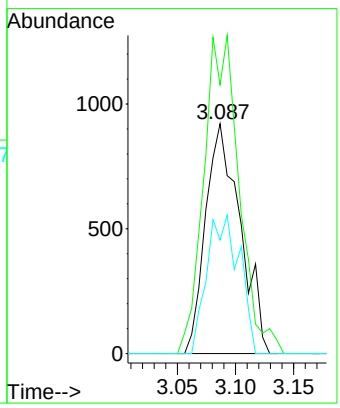




#21
trans-1,2-Dichloroethene
Concen: 0.965 ug/l
RT: 3.087 min Scan# 32
Delta R.T. -0.000 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 96 Resp: 1904

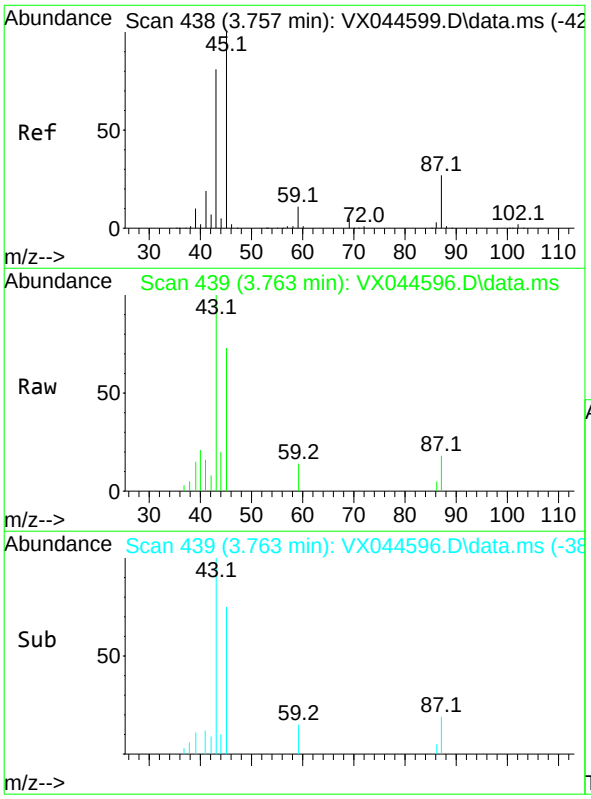
Ion	Ratio	Lower	Upper
96	100		
61	116.9	118.5	177.7#
98	49.4	53.4	80.0#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

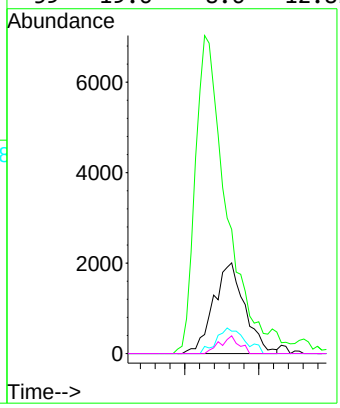
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

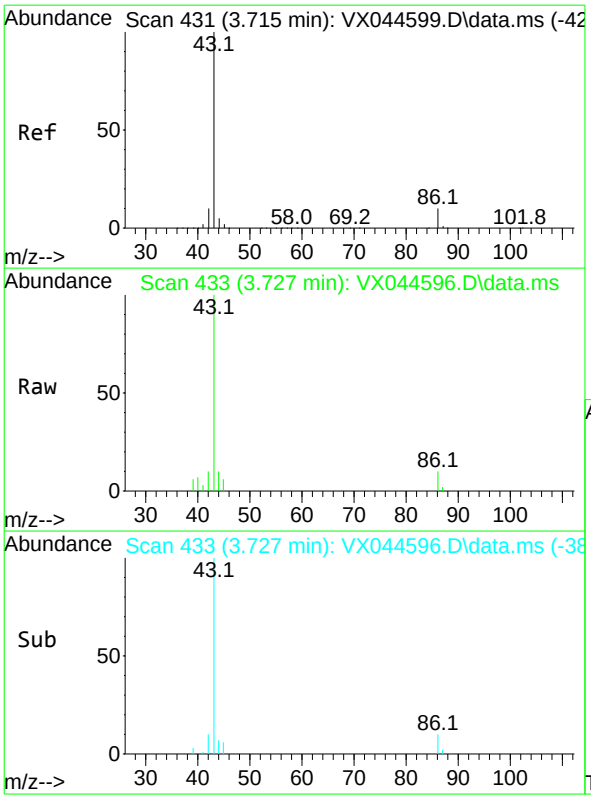


#22
Diisopropyl ether
Concen: 0.894 ug/l
RT: 3.763 min Scan# 439
Delta R.T. 0.006 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 45 Resp: 5870

Ion	Ratio	Lower	Upper
45	100		
43	132.1	64.6	97.0#
87	24.7	21.8	32.8
59	19.6	8.6	12.8#

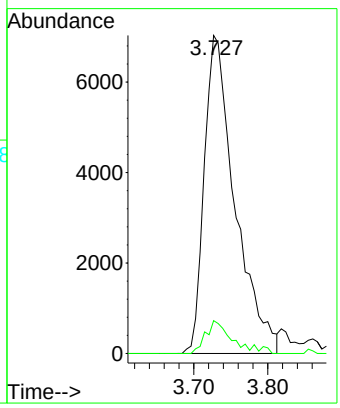




#23
Vinyl Acetate
Concen: 3.818 ug/l
RT: 3.727 min Scan# 43
Delta R.T. 0.012 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 43 Resp: 20280

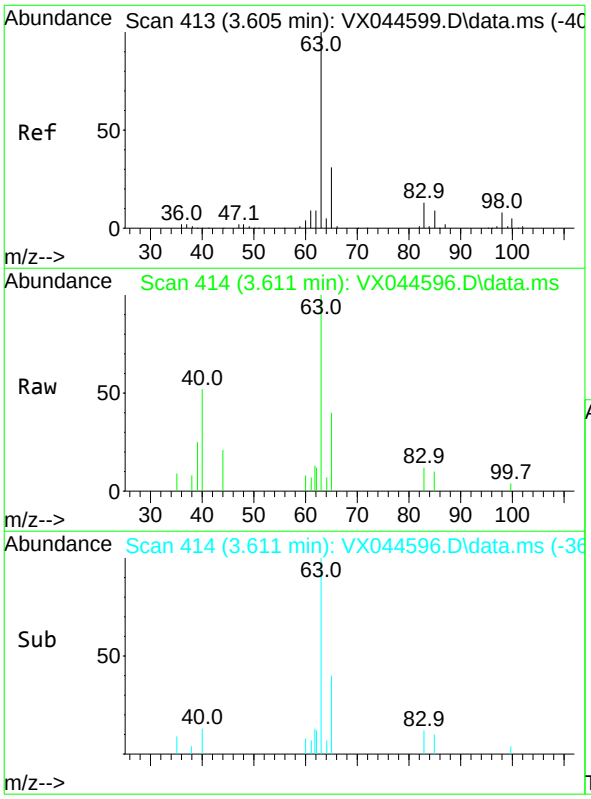
Ion	Ratio	Lower	Upper
43	100		
86	10.3	8.1	12.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

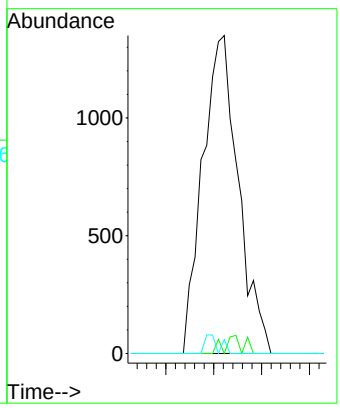
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

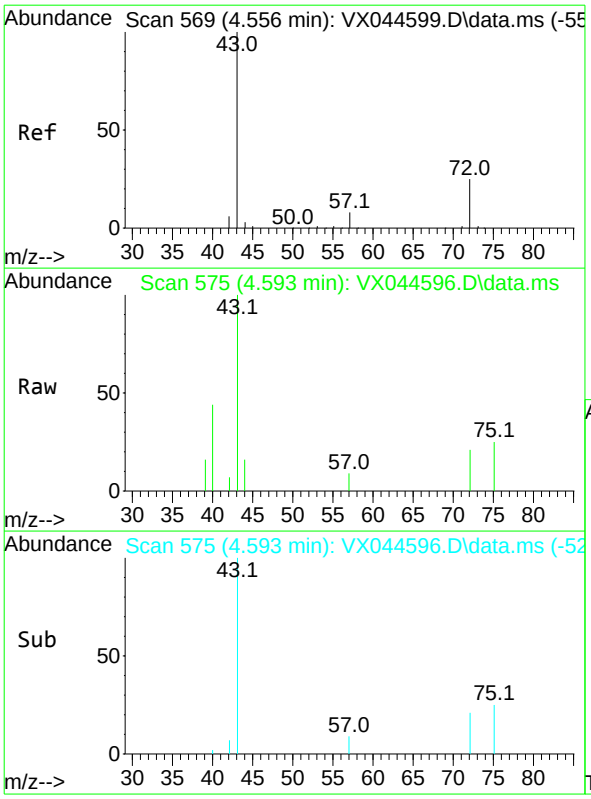


#24
1,1-Dichloroethane
Concen: 0.913 ug/l
RT: 3.611 min Scan# 414
Delta R.T. 0.006 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 63 Resp: 3494

Ion	Ratio	Lower	Upper
63	100		
98	0.0	3.8	11.4#
100	4.4	2.4	7.2

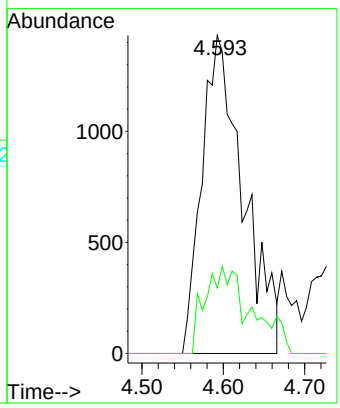




#25
2-Butanone
Concen: 4.020 ug/l
RT: 4.593 min Scan# 57
Delta R.T. 0.036 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 43 Resp: 5065

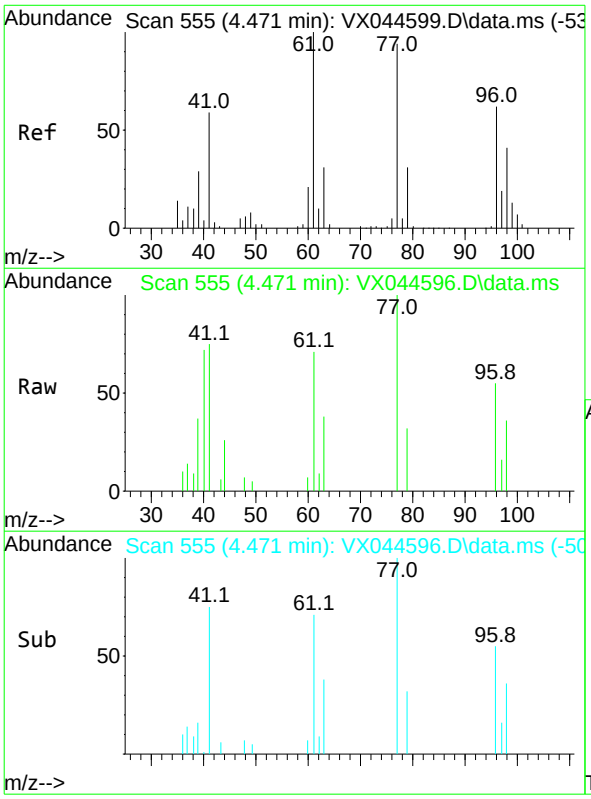
Ion	Ratio	Lower	Upper
43	100		
72	20.6	20.2	30.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

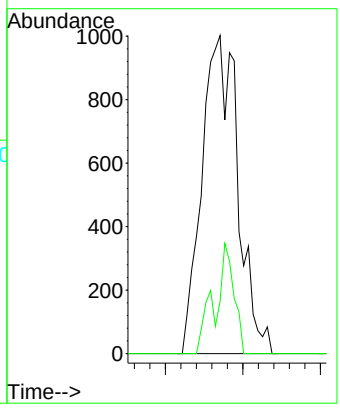
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

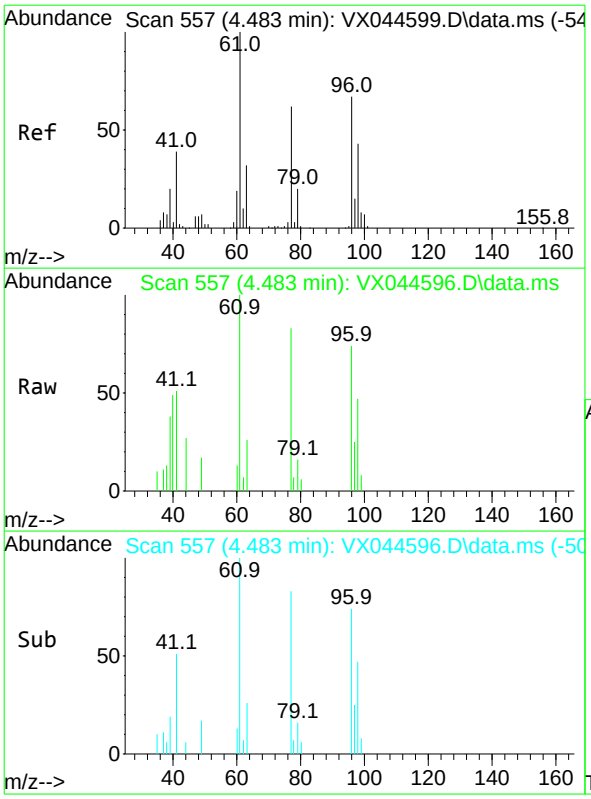


#26
2,2-Dichloropropane
Concen: 0.979 ug/l
RT: 4.471 min Scan# 555
Delta R.T. -0.000 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 77 Resp: 3241

Ion	Ratio	Lower	Upper
77	100		
97	12.5	10.7	32.1

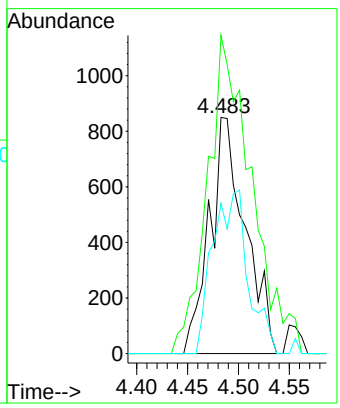




#27
cis-1,2-Dichloroethene
Concen: 0.859 ug/l
RT: 4.483 min Scan# 55
Delta R.T. -0.000 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 96 Resp: 2066

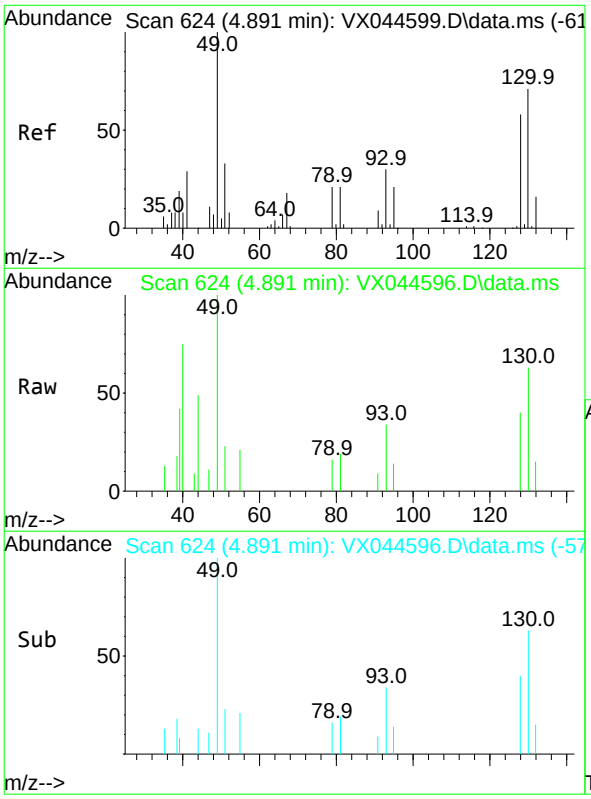
Ion	Ratio	Lower	Upper
96	100		
61	166.8	0.0	302.8
98	68.8	0.0	130.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

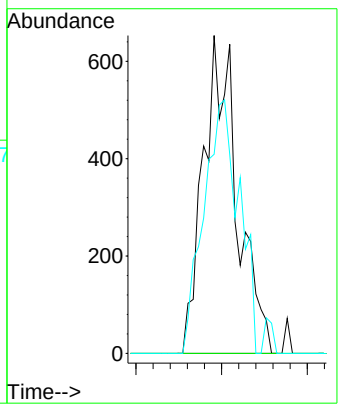
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

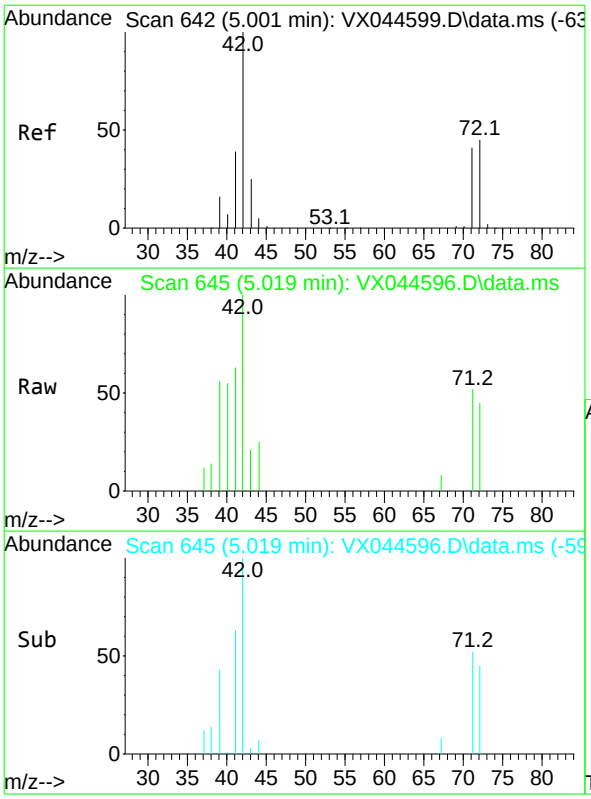


#28
Bromochloromethane
Concen: 1.005 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.000 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 49 Resp: 1791

Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.2
130	83.9	58.8	88.2

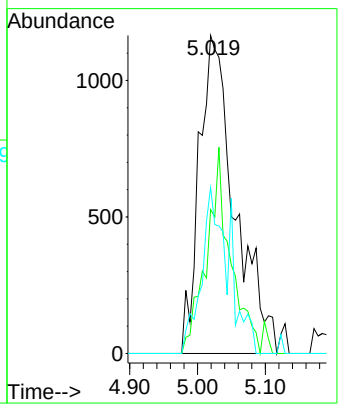




#29
Tetrahydrofuran
Concen: 4.941 ug/l
RT: 5.019 min Scan# 64
Delta R.T. 0.018 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 42 Resp: 4263

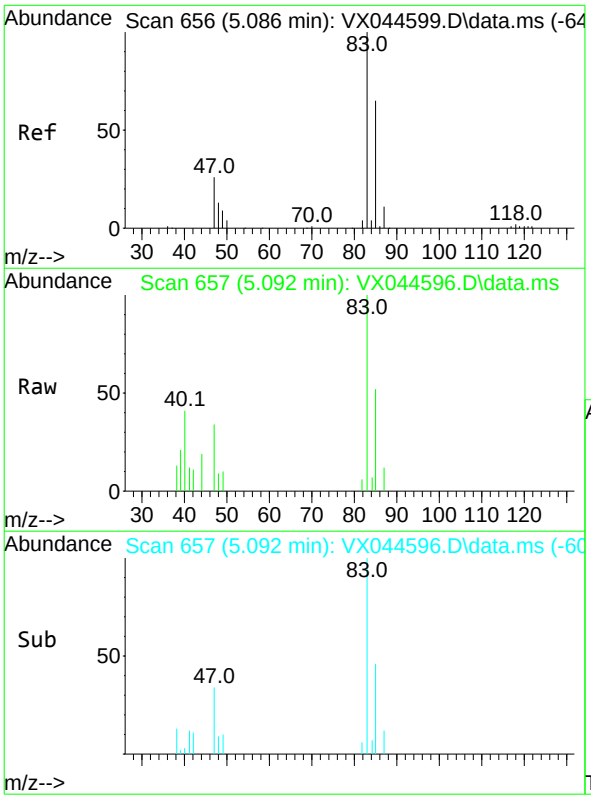
Ion	Ratio	Lower	Upper
42	100		
72	43.0	36.1	54.1
71	40.4	33.0	49.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

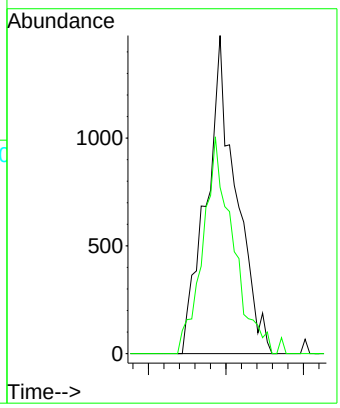
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

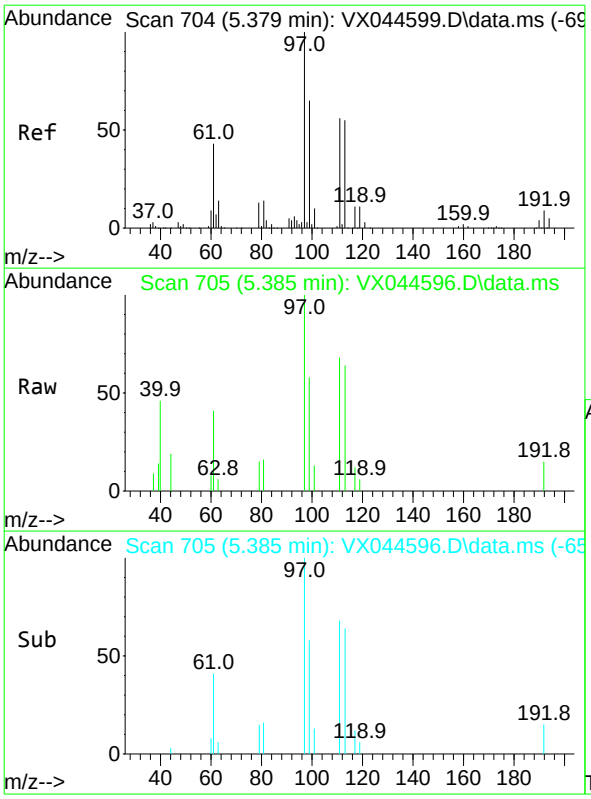


#30
Chloroform
Concen: 0.951 ug/l
RT: 5.092 min Scan# 657
Delta R.T. 0.006 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 83 Resp: 3923

Ion	Ratio	Lower	Upper
83	100		
85	52.3	52.3	78.5#

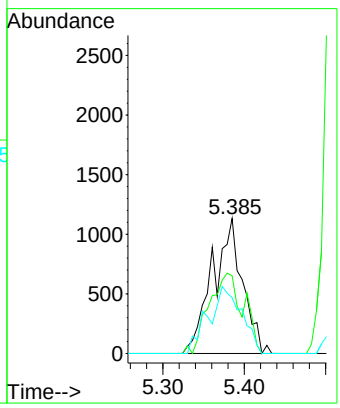




#32
1,1,1-Trichloroethane
Concen: 0.839 ug/l
RT: 5.385 min Scan# 70
Delta R.T. 0.006 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 97 Resp: 2914

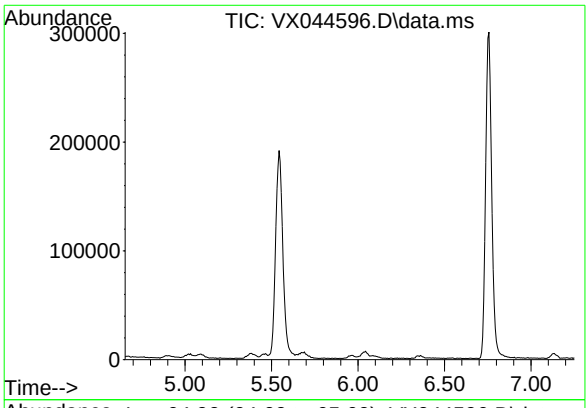
Ion	Ratio	Lower	Upper
97	100		
99	0.0	52.1	78.1#
61	54.8	36.8	55.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

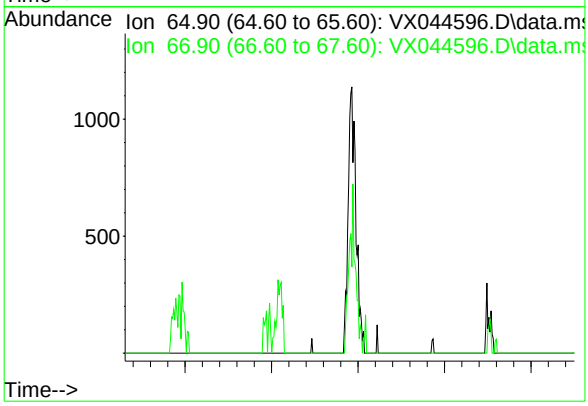


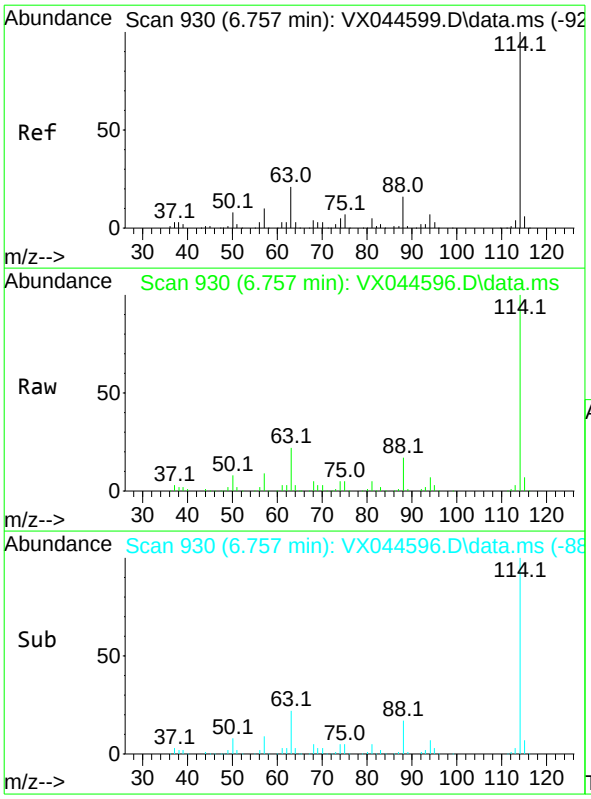
#33
1,2-Dichloroethane-d4
Concen: 0.000 ug/l
Expected RT: 5.95 min

Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 65

Sig	Exp Ratio
65	100
67	49.5

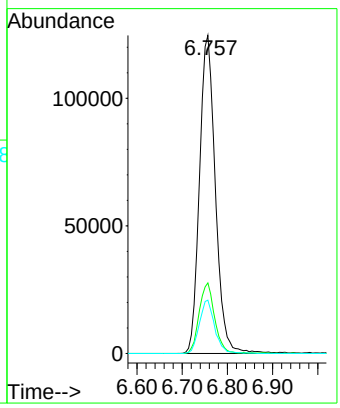




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 93
Delta R.T. -0.000 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion:114 Resp: 304446

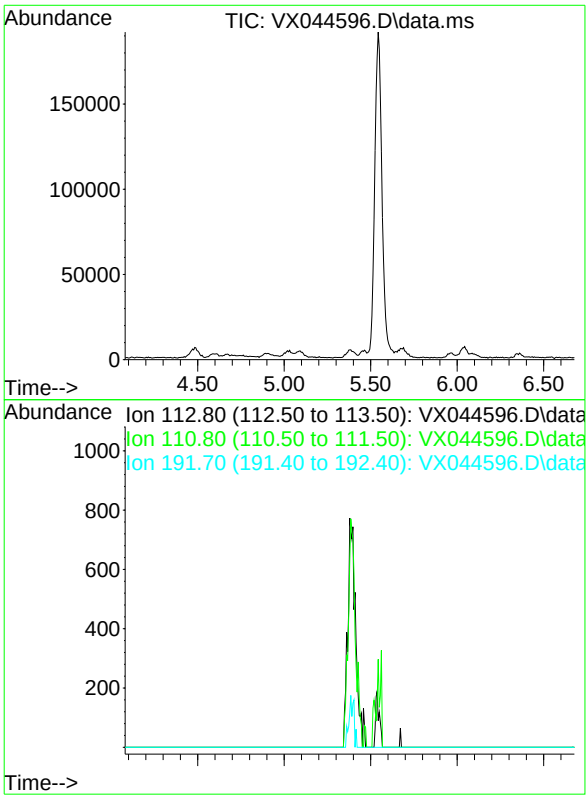
Ion	Ratio	Lower	Upper
114	100		
63	22.2	0.0	42.6
88	16.8	0.0	32.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

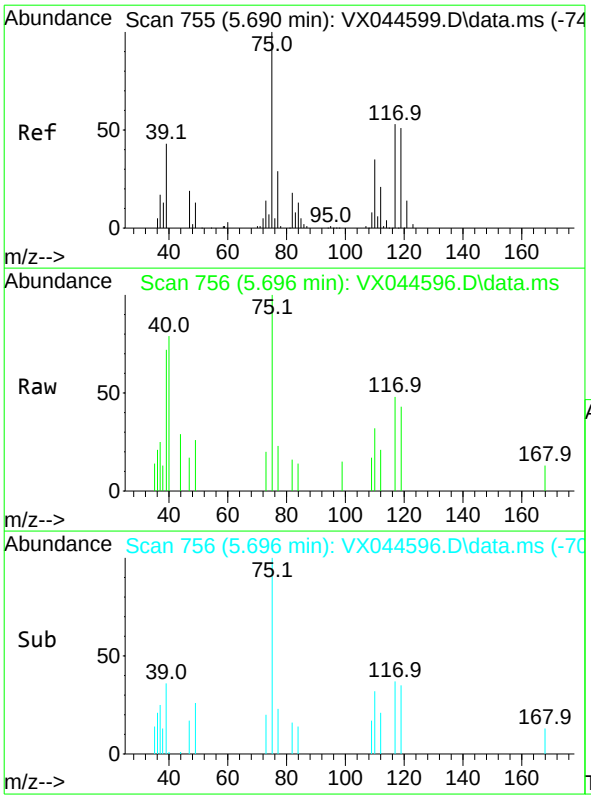


#35
Dibromofluoromethane
Concen: 0.000 ug/l
Expected RT: 5.38 min

Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 113

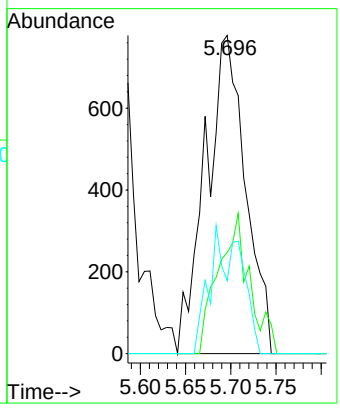
Sig	Exp Ratio
113	100
111	104.1
192	17.9



#36
1,1-Dichloropropene
Concen: 0.887 ug/l
RT: 5.696 min Scan# 75
Delta R.T. 0.006 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 75 Resp: 2395

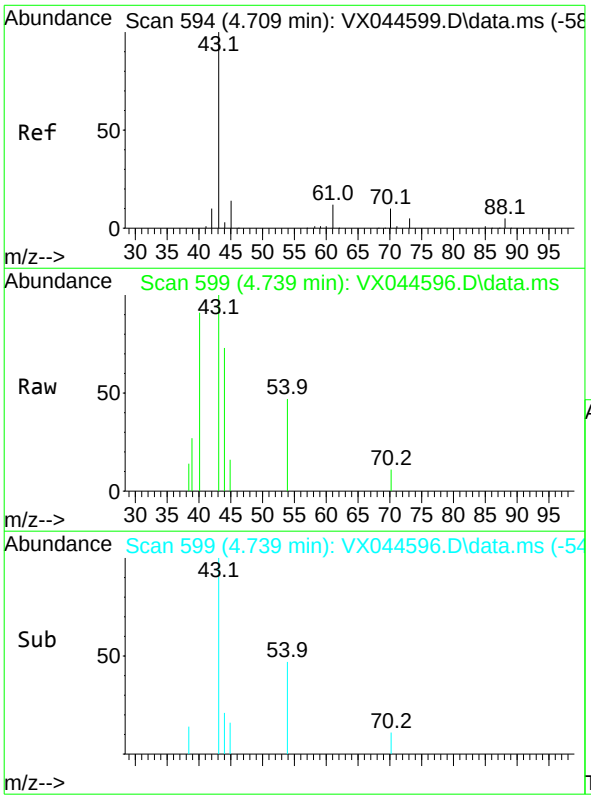
Ion	Ratio	Lower	Upper
75	100		
110	34.6	17.3	51.9
77	14.6	24.7	37.1#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

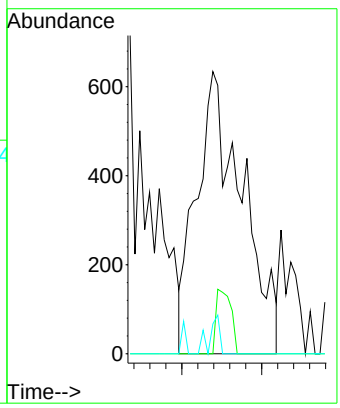
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

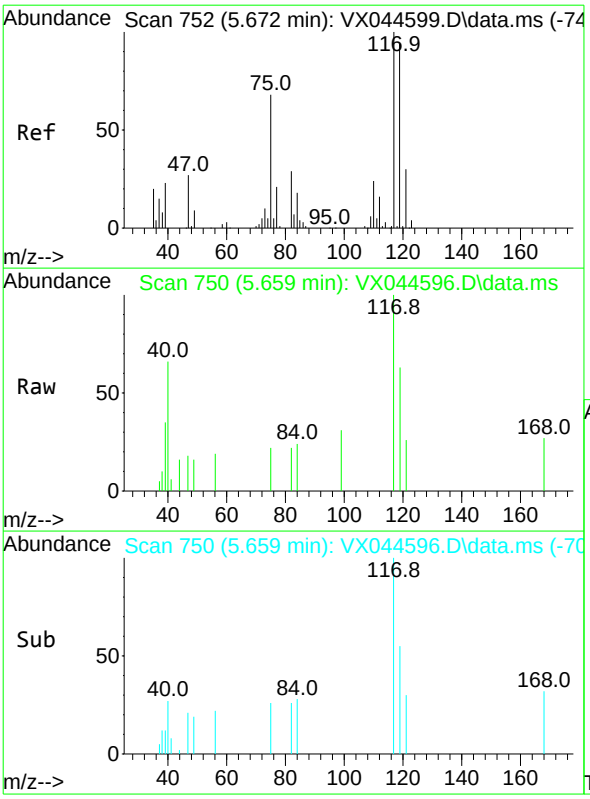


#37
Ethyl Acetate
Concen: 0.912 ug/l m
RT: 4.739 min Scan# 599
Delta R.T. 0.030 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 43 Resp: 2519

Ion	Ratio	Lower	Upper
43	100		
61	7.4	9.9	14.9#
70	3.0	8.0	12.0#





#38
Carbon Tetrachloride
Concen: 0.949 ug/l
RT: 5.659 min Scan# 75
Delta R.T. -0.012 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

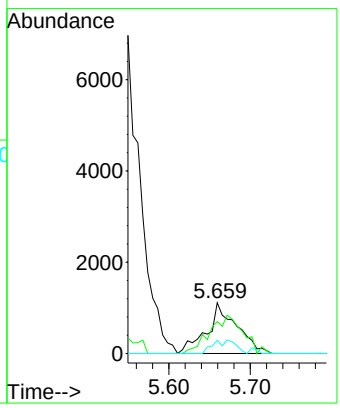
Tgt Ion:117 Resp: 2842

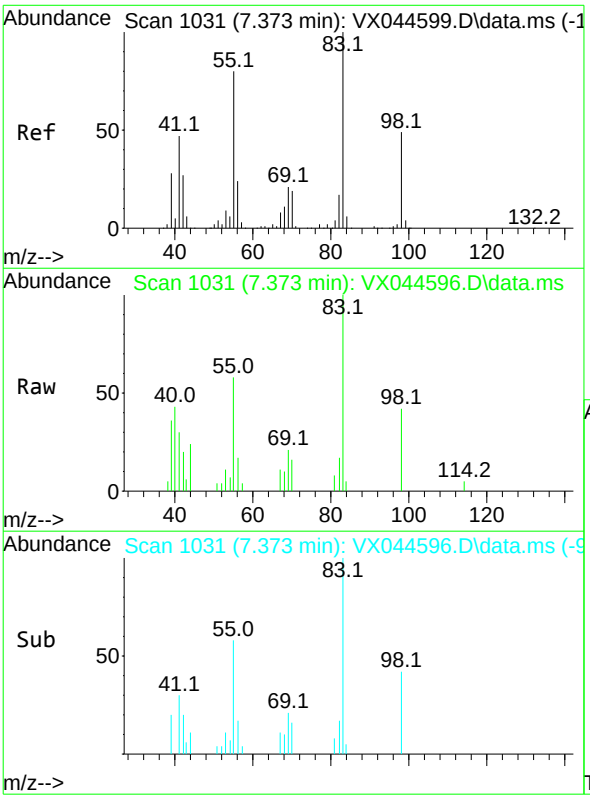
Ion	Ratio	Lower	Upper
117	100		
119	62.8	74.5	111.7#
121	25.8	24.1	36.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

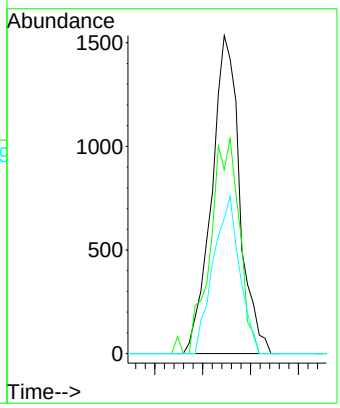


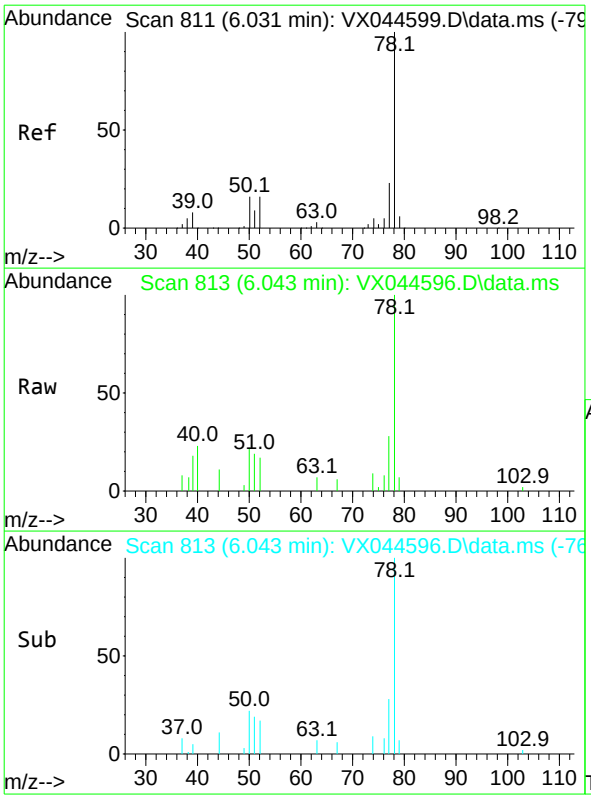


#39
Methylcyclohexane
Concen: 0.906 ug/l
RT: 7.373 min Scan# 1031
Delta R.T. -0.000 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 83 Resp: 3120

Ion	Ratio	Lower	Upper
83	100		
55	57.9	64.1	96.1#
98	42.4	38.9	58.3

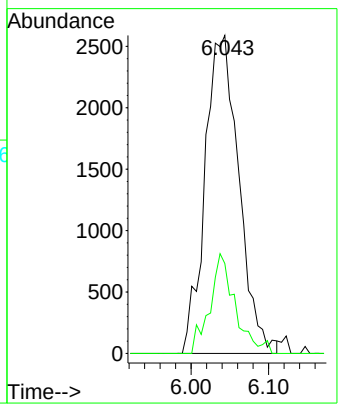




#40
Benzene
Concen: 0.925 ug/l
RT: 6.043 min Scan# 81
Delta R.T. 0.012 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 78 Resp: 7861

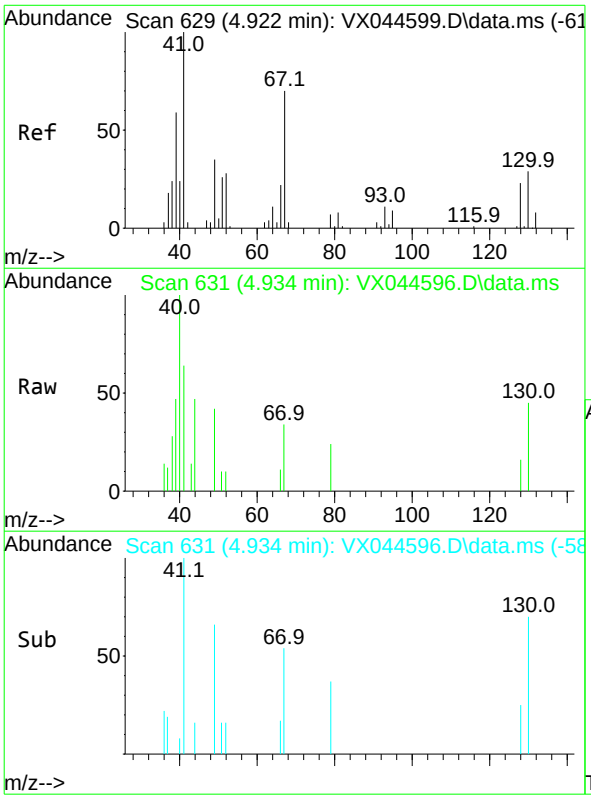
Ion	Ratio	Lower	Upper
78	100		
77	28.3	18.8	28.2#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

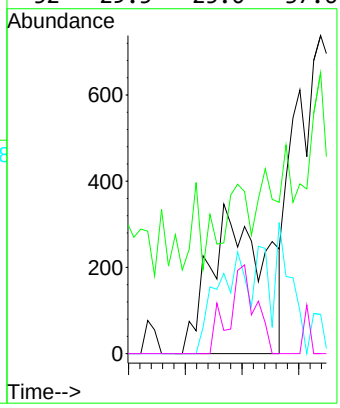
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

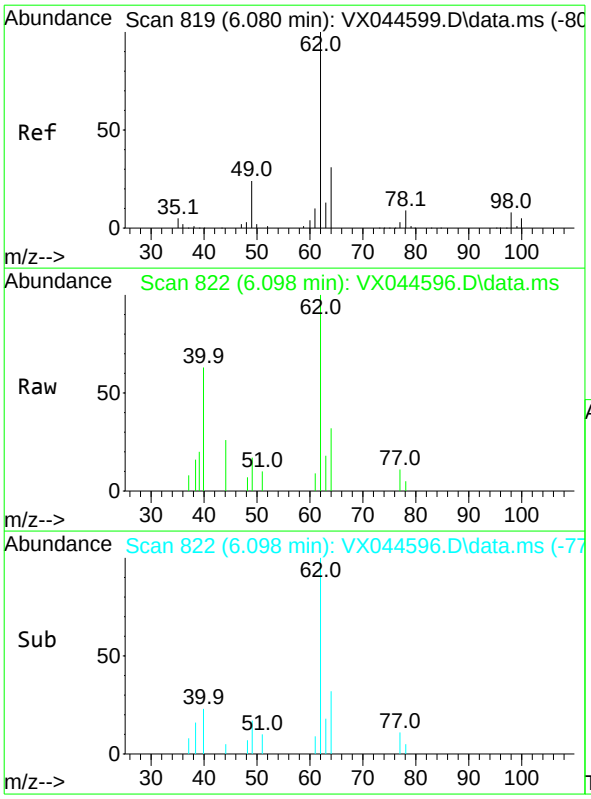


#41
Methacrylonitrile
Concen: 0.762 ug/l m
RT: 4.934 min Scan# 631
Delta R.T. 0.012 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 41 Resp: 1129

Ion	Ratio	Lower	Upper
41	100		
39	12.9	47.0	70.4#
67	39.4	57.4	86.2#
52	29.5	25.0	37.6

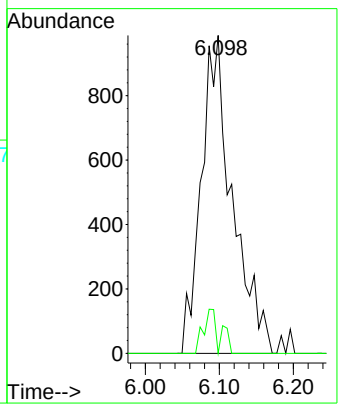




#42
1,2-Dichloroethane
Concen: 0.866 ug/l
RT: 6.098 min Scan# 82
Delta R.T. 0.018 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 62 Resp: 2879

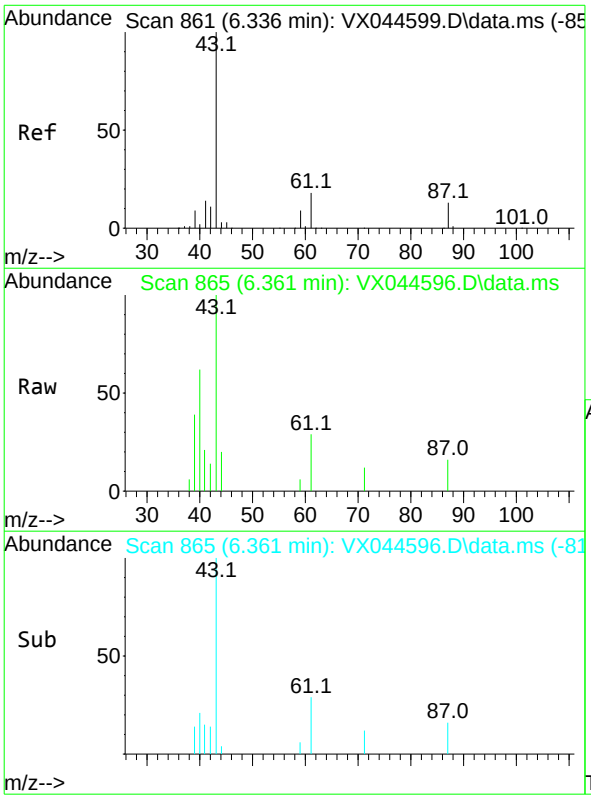
Ion	Ratio	Lower	Upper
62	100		
98	5.2	0.0	15.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

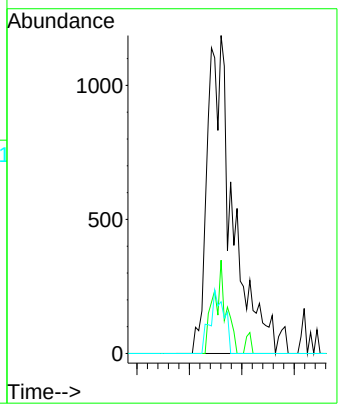
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

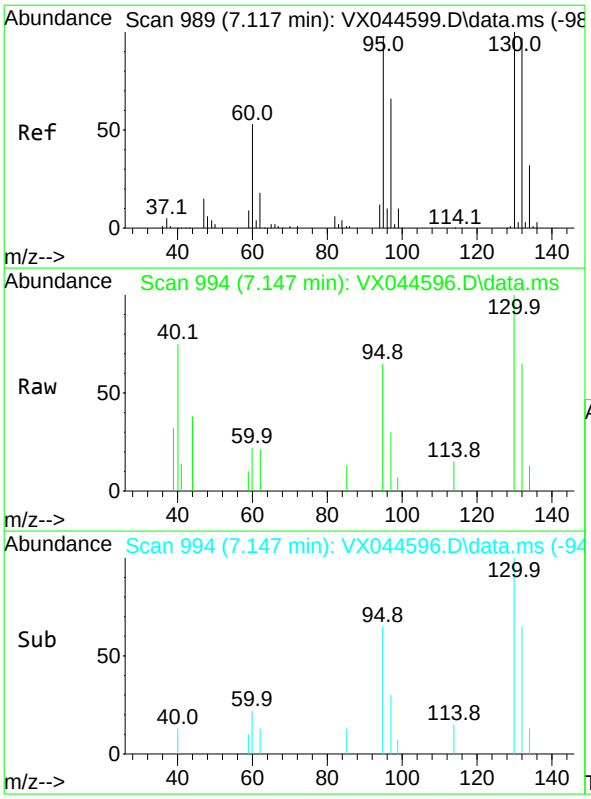


#43
Isopropyl Acetate
Concen: 0.879 ug/l m
RT: 6.361 min Scan# 865
Delta R.T. 0.024 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 43 Resp: 4006

Ion	Ratio	Lower	Upper
43	100		
61	14.4	14.5	21.7#
87	11.1	10.1	15.1

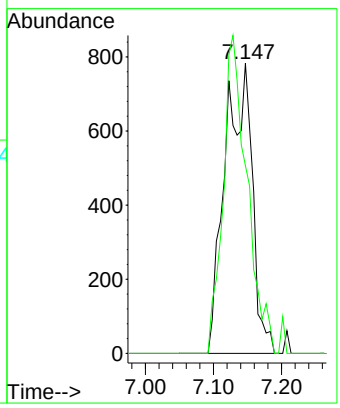




#44
Trichloroethene
Concen: 0.995 ug/l m
RT: 7.147 min Scan# 99
Delta R.T. 0.030 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion:130 Resp: 2161

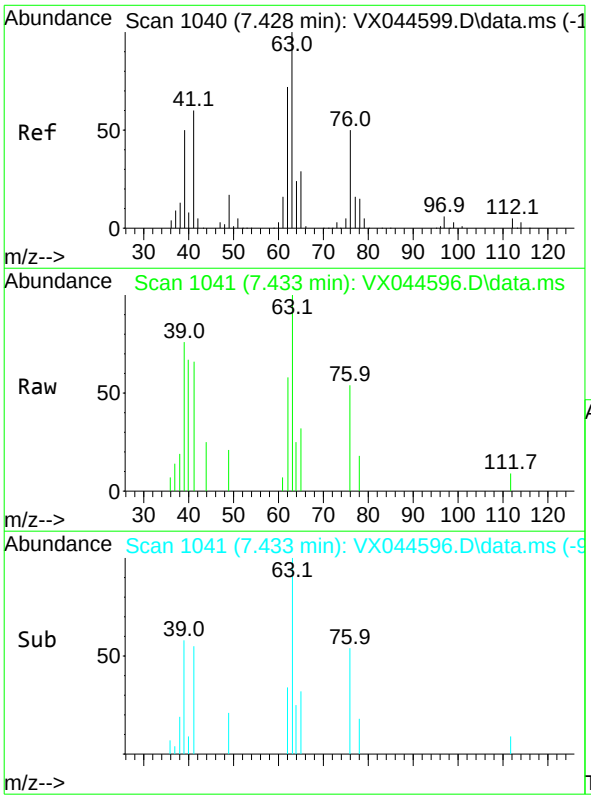
Ion	Ratio	Lower	Upper
130	100		
95	64.8	0.0	195.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

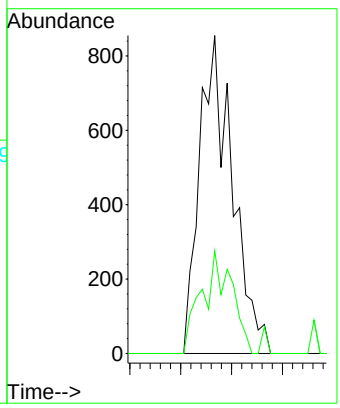
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

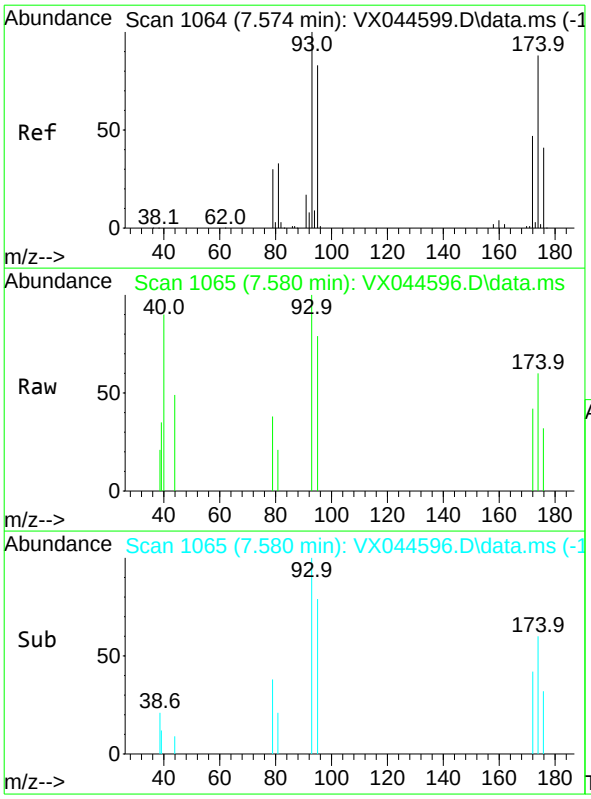


#45
1,2-Dichloropropane
Concen: 0.923 ug/l
RT: 7.433 min Scan# 1041
Delta R.T. 0.006 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 63 Resp: 1913

Ion	Ratio	Lower	Upper
63	100		
65	32.3	23.0	34.4

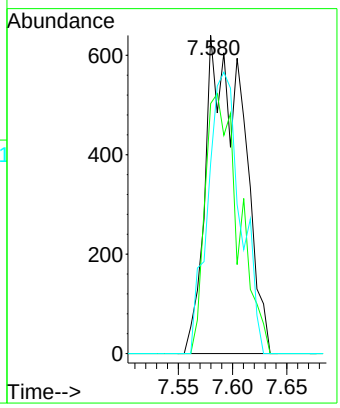




#46
Dibromomethane
Concen: 0.960 ug/l
RT: 7.580 min Scan# 10
Delta R.T. 0.006 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 93 Resp: 1547

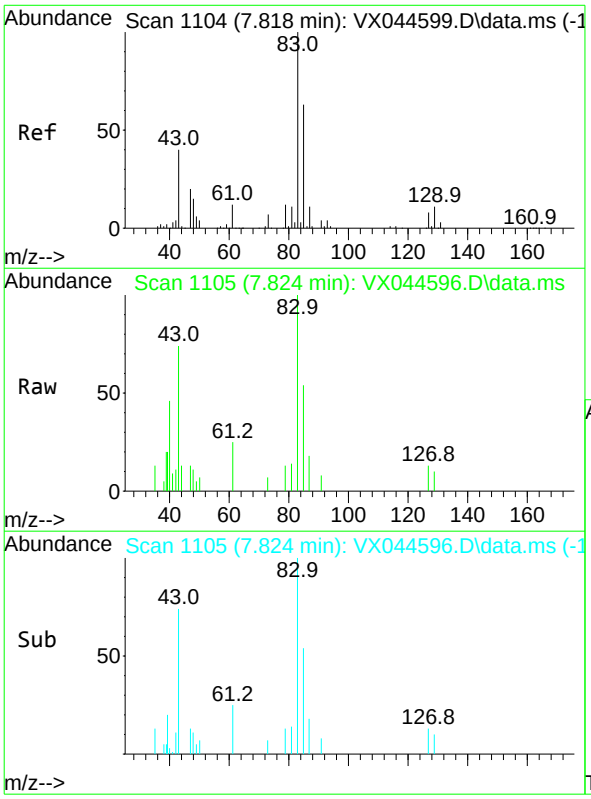
Ion	Ratio	Lower	Upper
93	100		
95	72.9	65.8	98.6
174	76.5	73.4	110.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

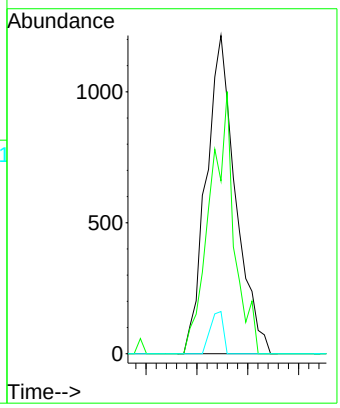
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

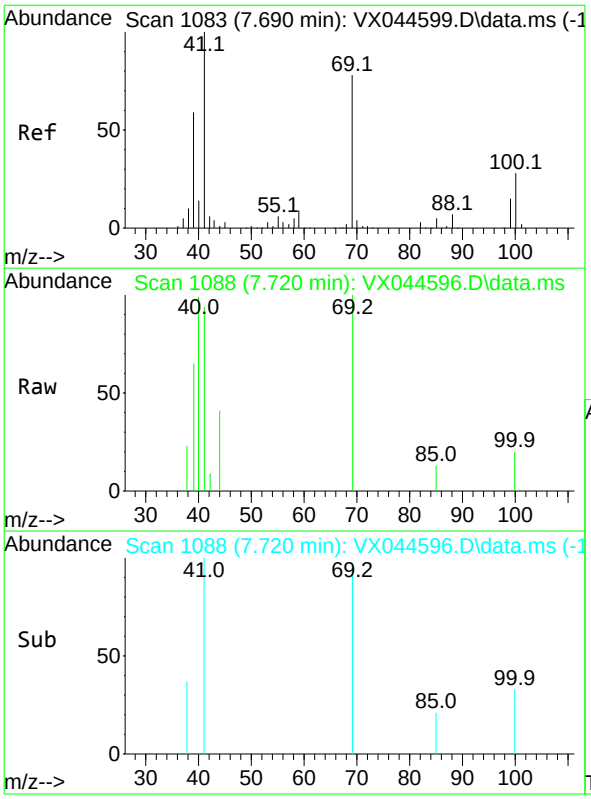


#47
Bromodichloromethane
Concen: 0.833 ug/l
RT: 7.824 min Scan# 1105
Delta R.T. 0.006 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 83 Resp: 2442

Ion	Ratio	Lower	Upper
83	100		
85	54.3	50.4	75.6
127	13.3	6.2	9.4#

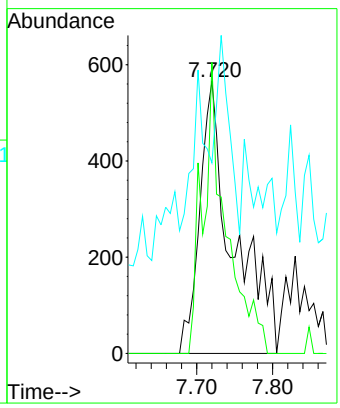




#48
Methyl methacrylate
Concen: 0.798 ug/l m
RT: 7.720 min Scan# 10
Delta R.T. 0.030 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 41 Resp: 1733

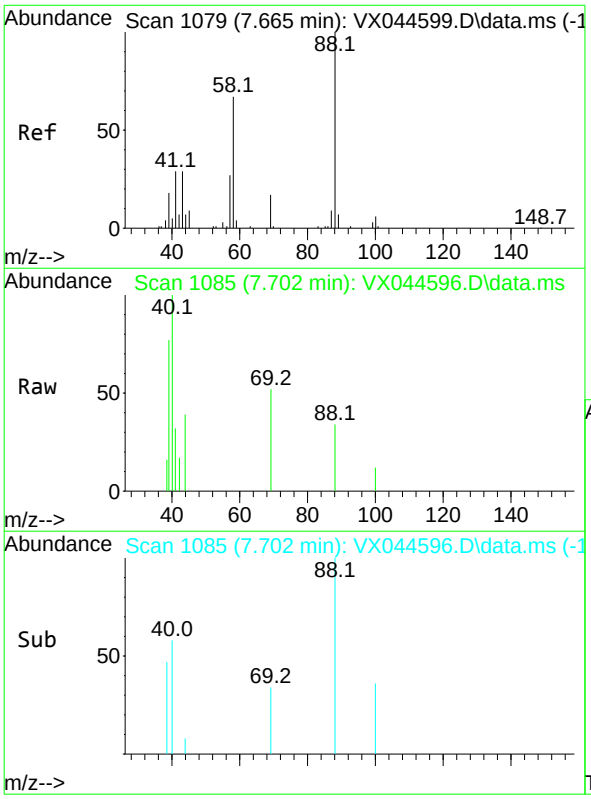
Ion	Ratio	Lower	Upper
41	100		
69	73.9	62.9	94.3
39	27.3	48.9	73.3#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

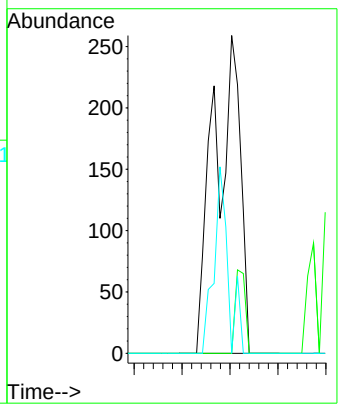
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

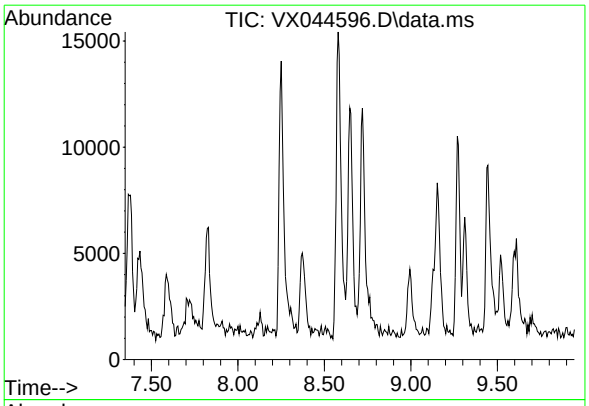


#49
1,4-Dioxane
Concen: 15.126 ug/l m
RT: 7.702 min Scan# 1085
Delta R.T. 0.036 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 88 Resp: 483

Ion	Ratio	Lower	Upper
88	100		
43	0.0	29.5	44.3#
58	32.3	56.3	84.5#





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

Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

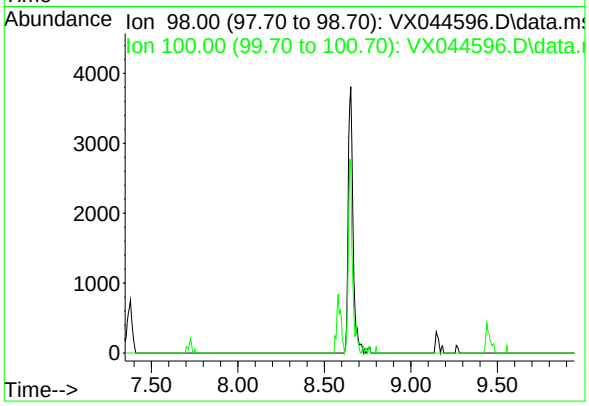
Tgt Ion: 98

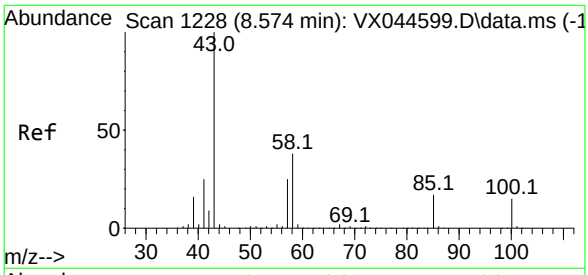
Sig	Exp Ratio
98	100
100	65.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

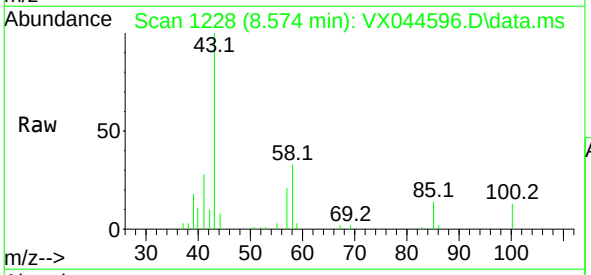


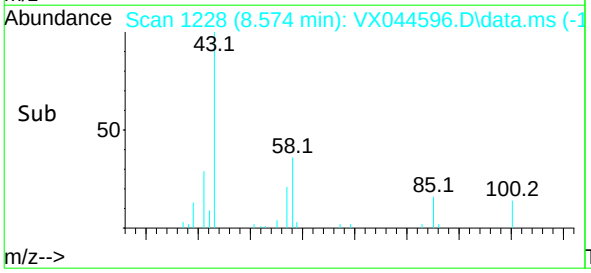


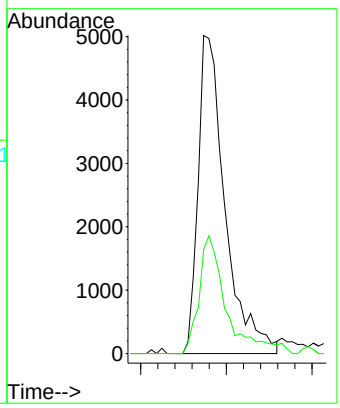
#51
4-Methyl-2-Pentanone
Concen: 4.125 ug/l
RT: 8.574 min Scan# 1228
Delta R.T. -0.000 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

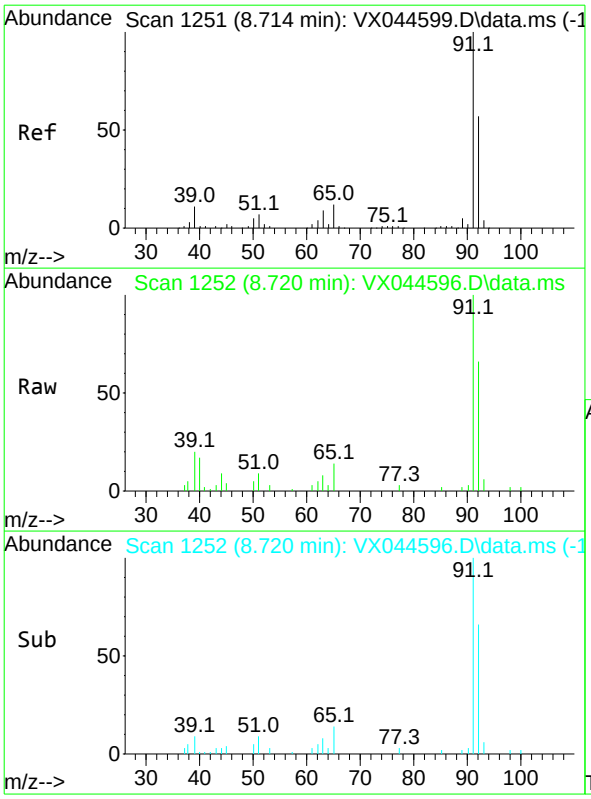
Tgt Ion: 43 Resp: 10986

Ion	Ratio	Lower	Upper
43	100		
58	37.3	30.0	45.0





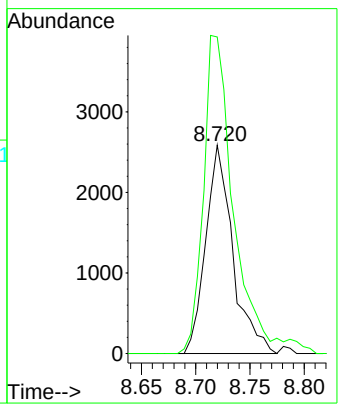




#52
Toluene
Concen: 0.874 ug/l
RT: 8.720 min Scan# 12
Delta R.T. 0.006 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 92 Resp: 4484

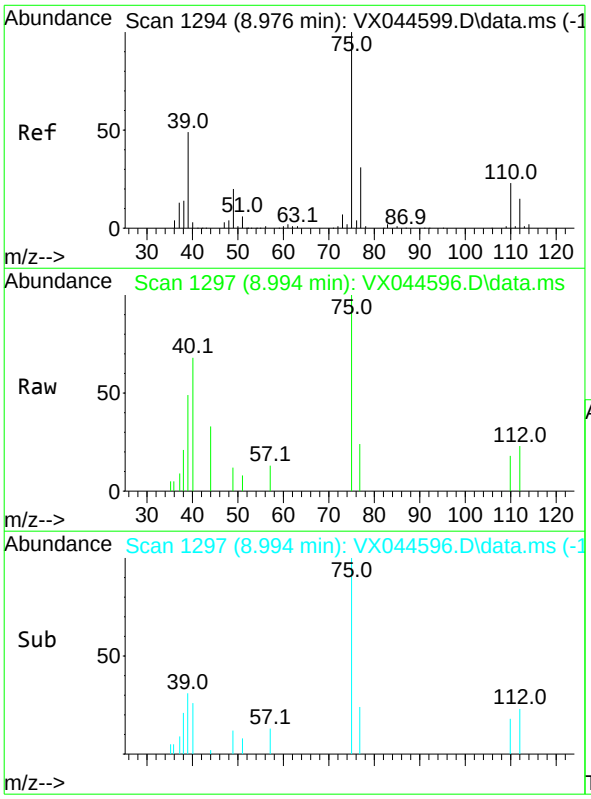
Ion	Ratio	Lower	Upper
92	100		
91	171.7	140.6	210.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

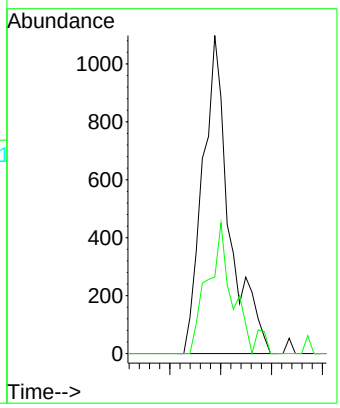
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

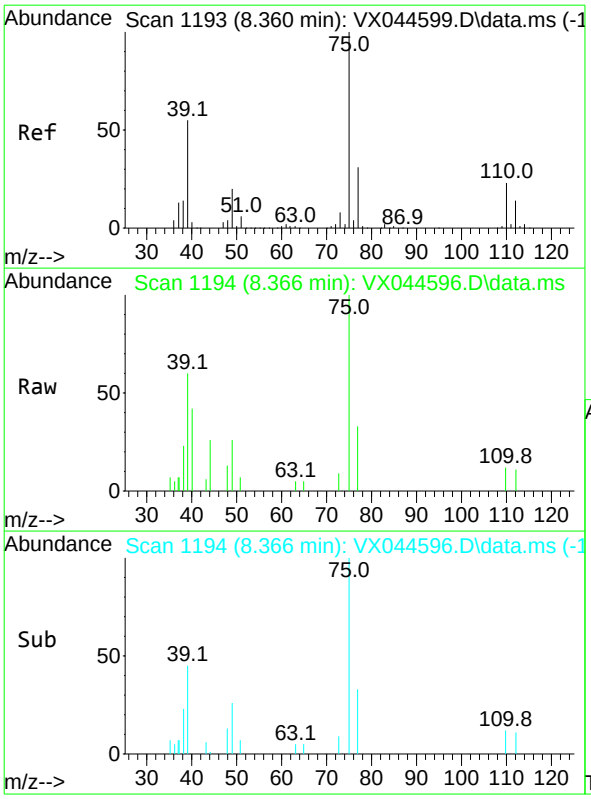


#53
t-1,3-Dichloropropene
Concen: 0.717 ug/l
RT: 8.994 min Scan# 1297
Delta R.T. 0.018 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 75 Resp: 2011

Ion	Ratio	Lower	Upper
75	100		
77	24.0	24.8	37.2#

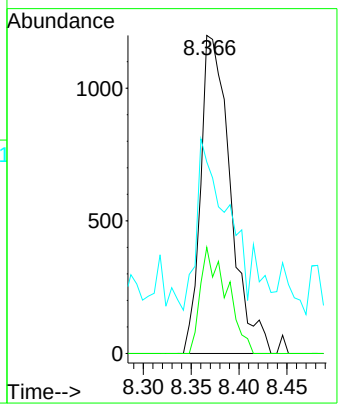




#54
cis-1,3-Dichloropropene
Concen: 0.822 ug/l
RT: 8.366 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 75 Resp: 2591

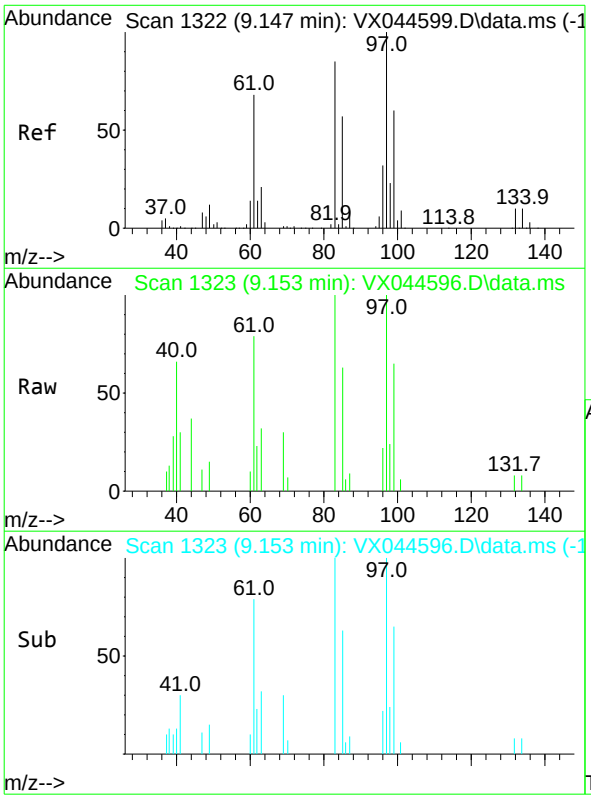
Ion	Ratio	Lower	Upper
75	100		
77	33.4	24.5	36.7
39	43.3	44.3	66.5#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

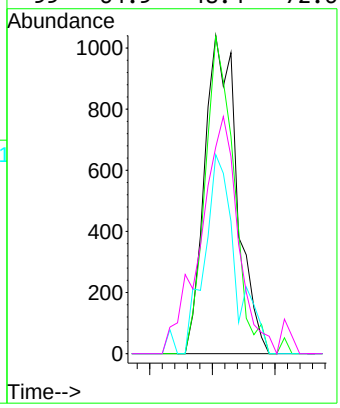
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

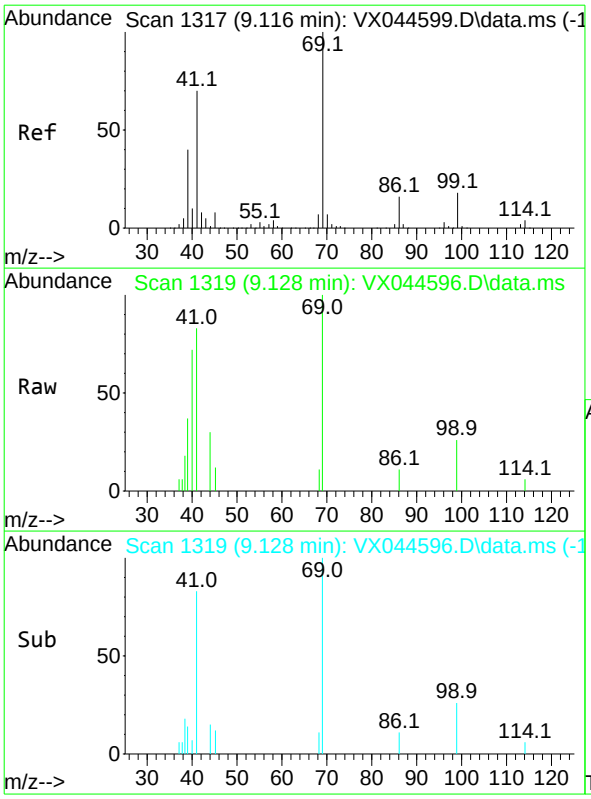


#55
1,1,2-Trichloroethane
Concen: 0.933 ug/l
RT: 9.153 min Scan# 1323
Delta R.T. 0.006 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 97 Resp: 1876

Ion	Ratio	Lower	Upper
97	100		
83	99.6	68.0	102.0
85	62.5	45.4	68.0
99	64.9	48.4	72.6

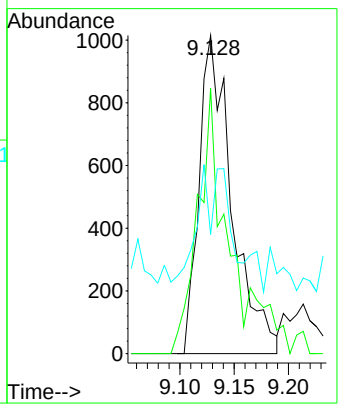




#56
Ethyl methacrylate
Concen: 0.729 ug/l
RT: 9.128 min Scan# 13
Delta R.T. 0.012 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 69 Resp: 2131

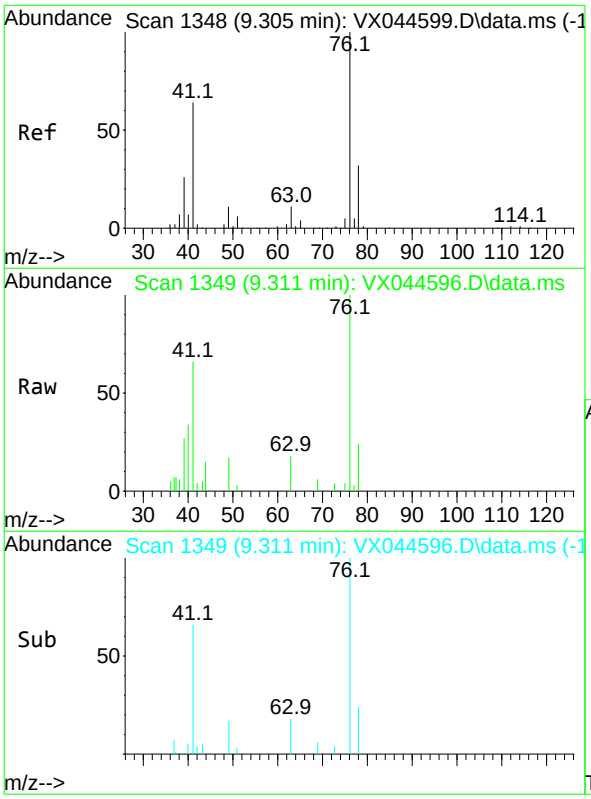
Ion	Ratio	Lower	Upper
69	100		
41	72.8	57.7	86.5
39	15.0	33.7	50.5#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

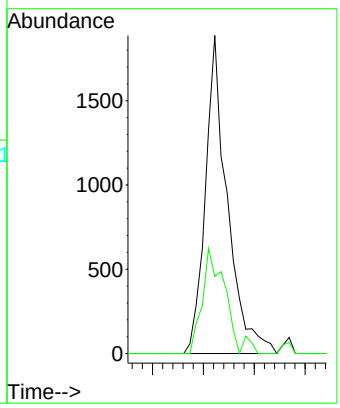
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

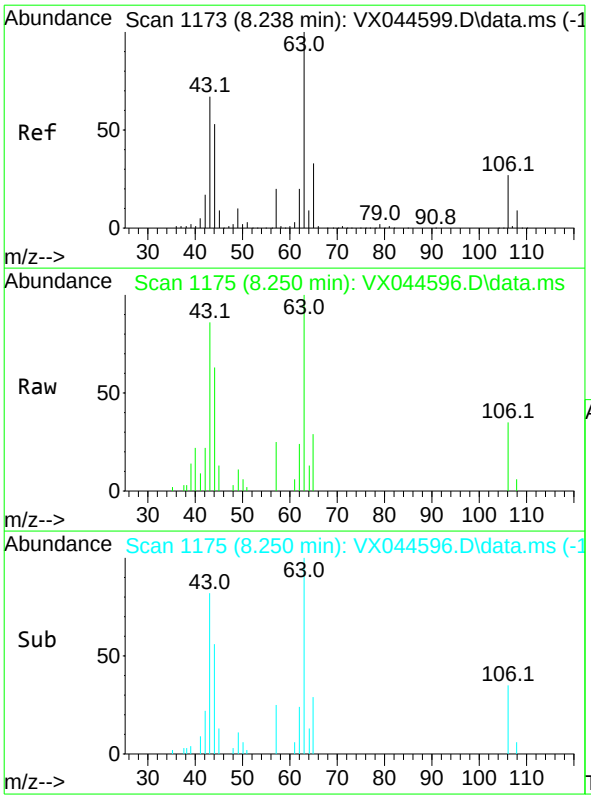


#57
1,3-Dichloropropane
Concen: 0.836 ug/l
RT: 9.311 min Scan# 1349
Delta R.T. 0.006 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 76 Resp: 2823

Ion	Ratio	Lower	Upper
76	100		
78	32.8	25.8	38.8

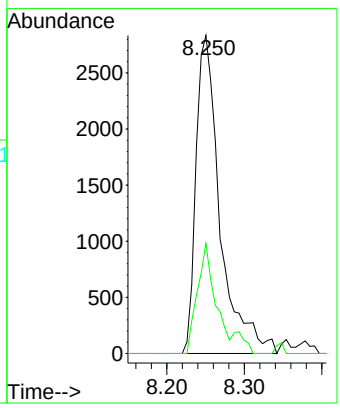




#58
2-Chloroethyl Vinyl ether
Concen: 4.210 ug/l
RT: 8.250 min Scan# 11
Delta R.T. 0.012 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 63 Resp: 6102

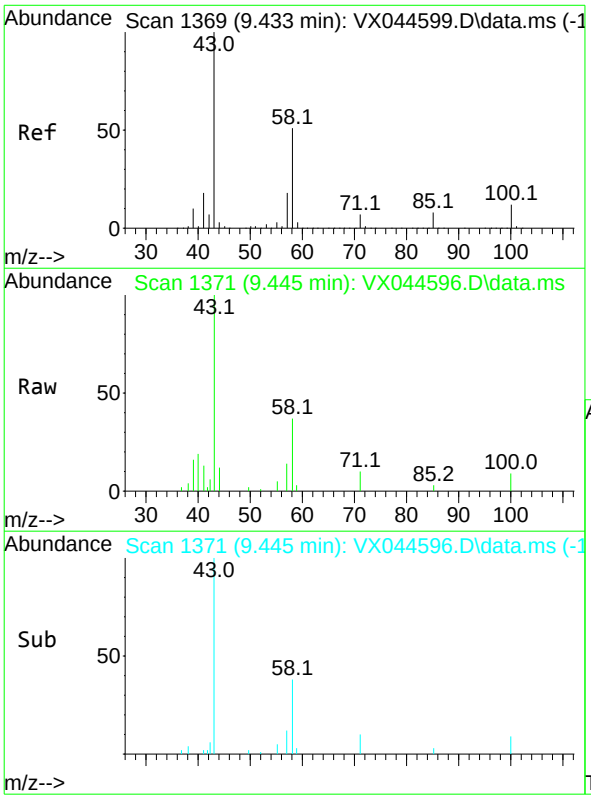
Ion	Ratio	Lower	Upper
63	100		
106	25.9	22.4	33.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

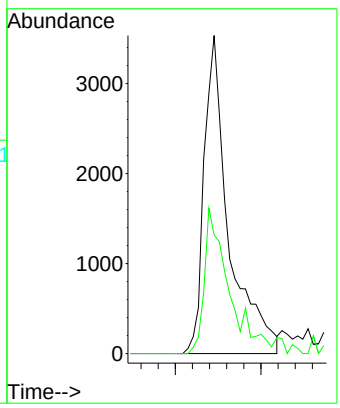
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

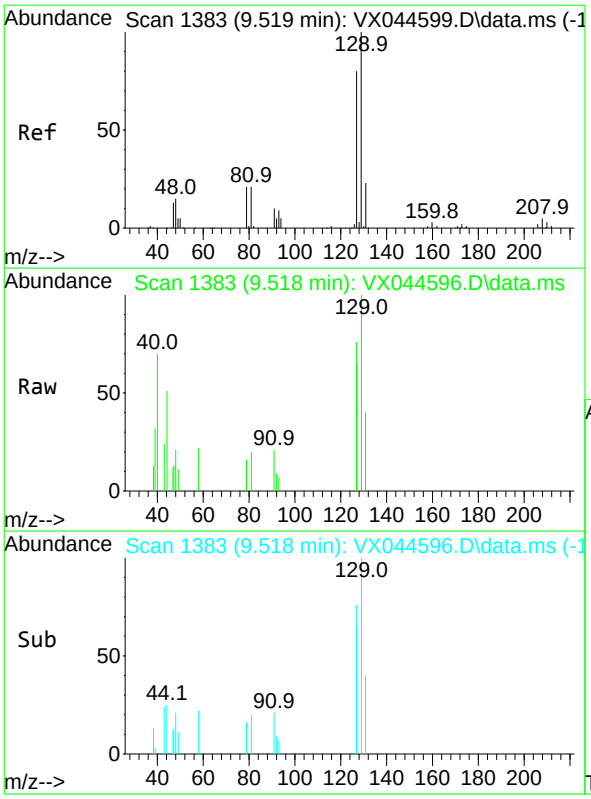


#59
2-Hexanone
Concen: 3.748 ug/l
RT: 9.445 min Scan# 1371
Delta R.T. 0.012 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 43 Resp: 7059

Ion	Ratio	Lower	Upper
43	100		
58	45.2	25.4	76.4

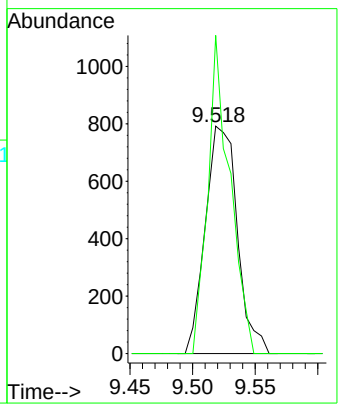




#60
Dibromochloromethane
Concen: 0.702 ug/l
RT: 9.518 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion:129 Resp: 1408

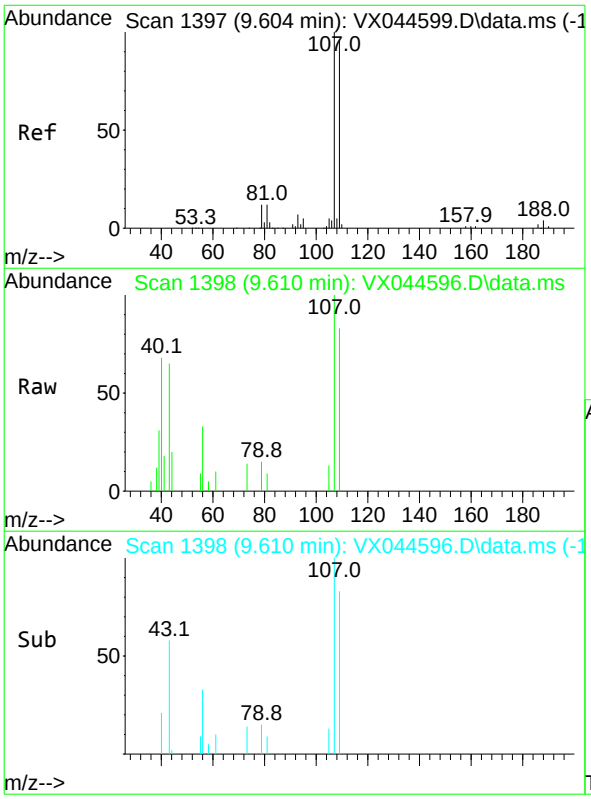
Ion	Ratio	Lower	Upper
129	100		
127	96.9	38.9	116.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

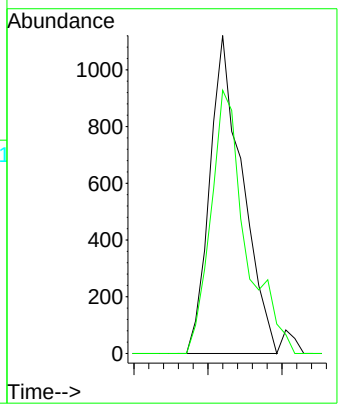
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

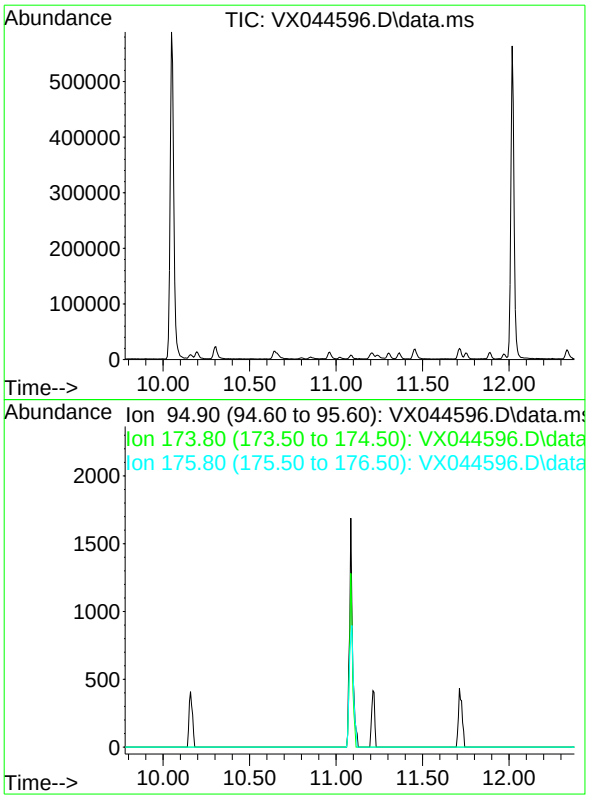


#61
1,2-Dibromoethane
Concen: 0.846 ug/l
RT: 9.610 min Scan# 1398
Delta R.T. 0.006 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion:107 Resp: 1717

Ion	Ratio	Lower	Upper
107	100		
109	88.5	76.7	115.1





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

Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

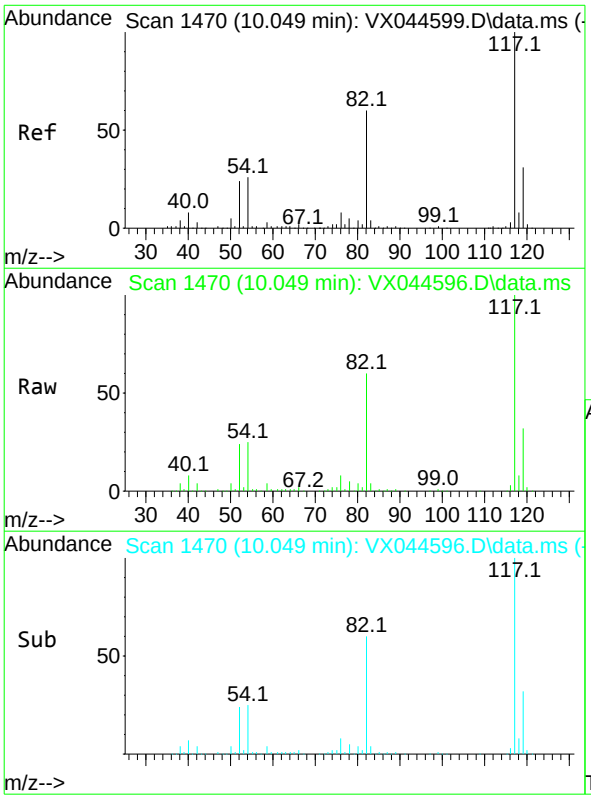
Tgt Ion: 95

Sig	Exp Ratio
95	100
174	74.4
176	69.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

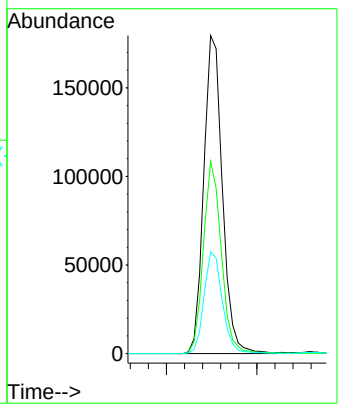
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

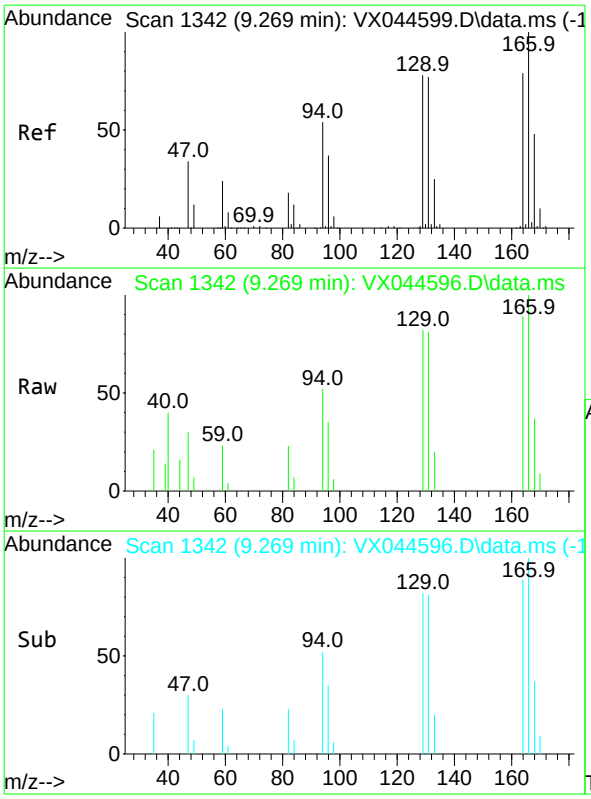


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. -0.000 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion:117 Resp: 256598

Ion	Ratio	Lower	Upper
117	100		
82	60.4	47.8	71.6
119	32.0	25.0	37.6

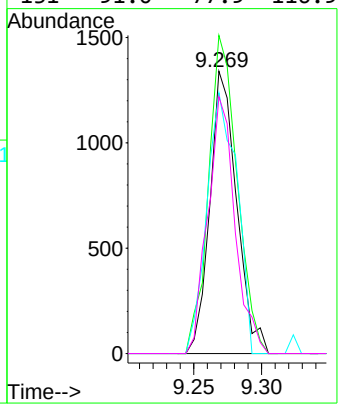




#64
Tetrachloroethene
Concen: 1.018 ug/l
RT: 9.269 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion:164 Resp: 1846

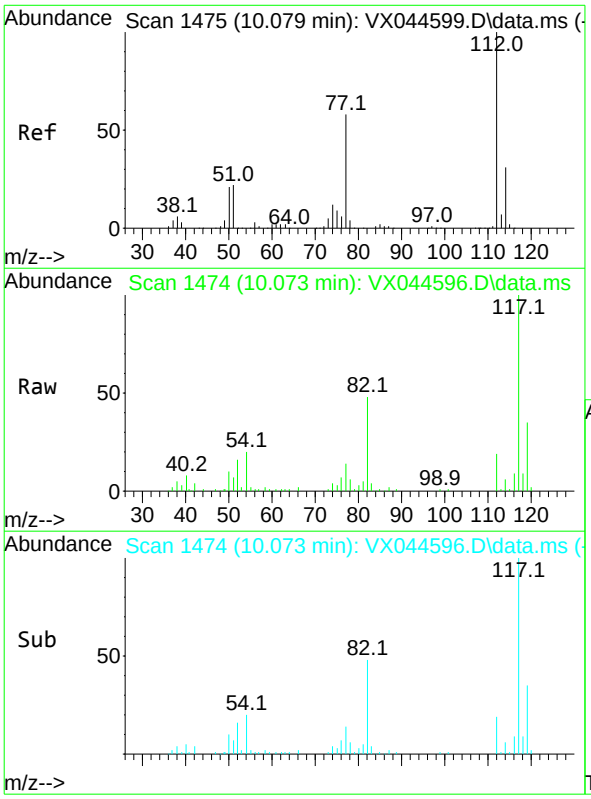
Ion	Ratio	Lower	Upper
164	100		
166	112.7	101.5	152.3
129	92.4	78.9	118.3
131	91.0	77.9	116.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

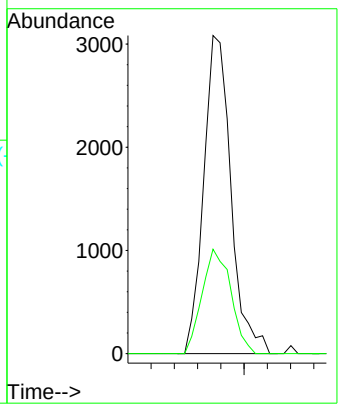
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

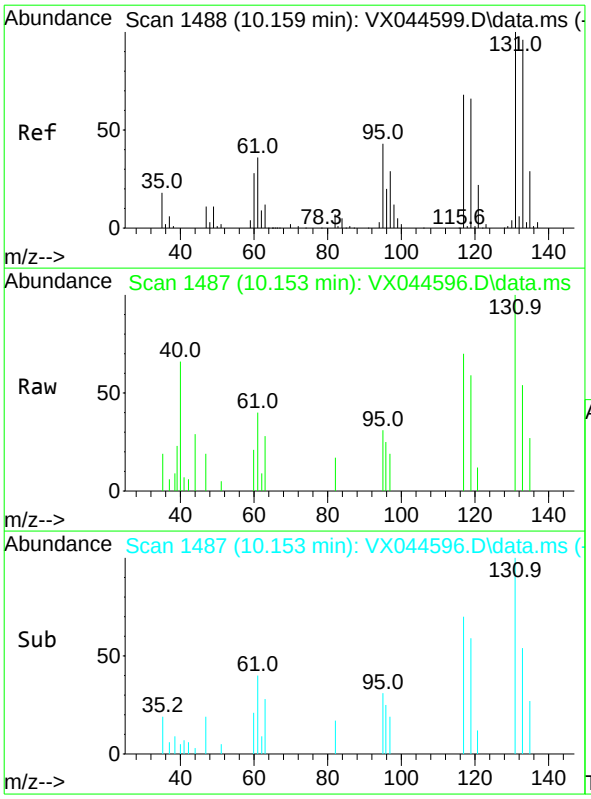


#65
Chlorobenzene
Concen: 0.921 ug/l
RT: 10.073 min Scan# 1474
Delta R.T. -0.006 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion:112 Resp: 5014

Ion	Ratio	Lower	Upper
112	100		
114	32.8	25.0	37.4

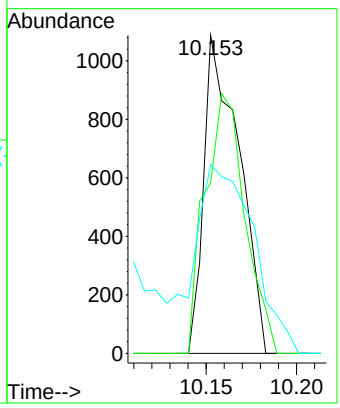




#66
1,1,1,2-Tetrachloroethane
Concen: 0.813 ug/l
RT: 10.153 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion:131 Resp: 1470

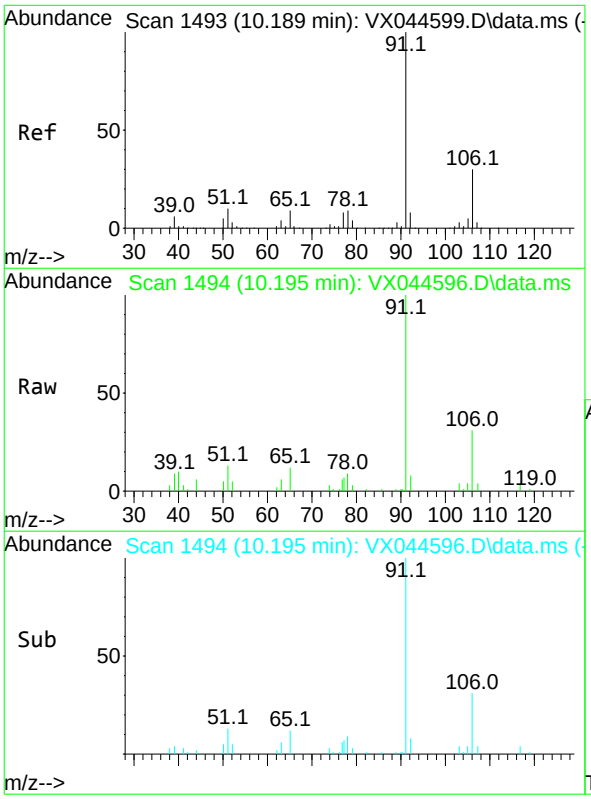
Ion	Ratio	Lower	Upper
131	100		
133	92.7	48.0	144.0
119	0.0	32.8	98.4#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

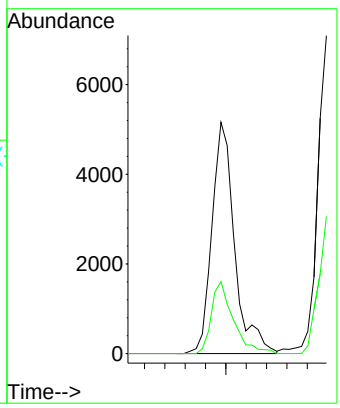
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

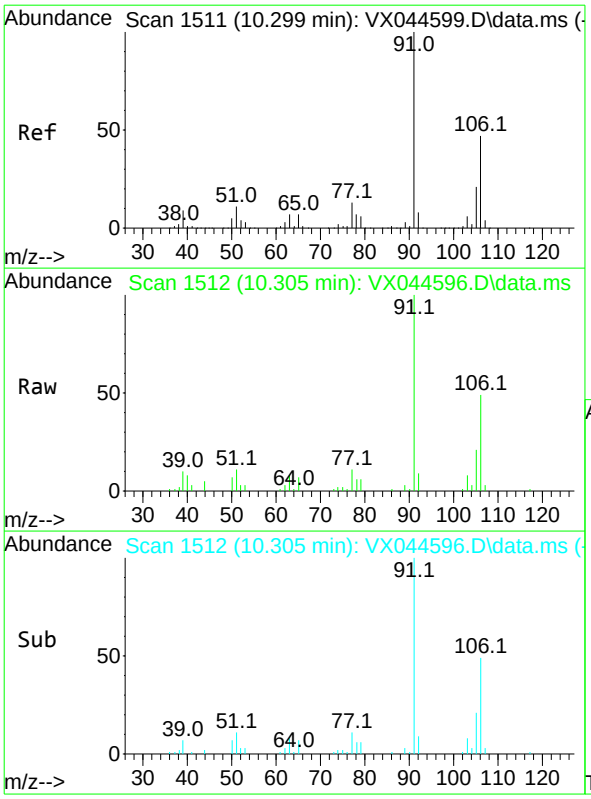


#67
Ethyl Benzene
Concen: 0.853 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. 0.006 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 91 Resp: 7980

Ion	Ratio	Lower	Upper
91	100		
106	31.1	23.8	35.8

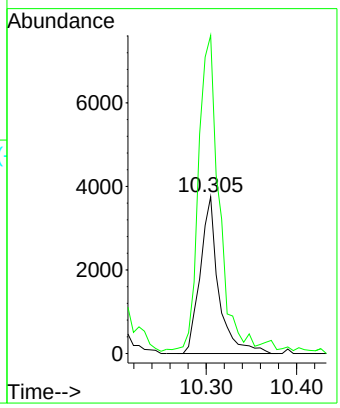




#68
m/p-Xylenes
Concen: 1.547 ug/l
RT: 10.305 min Scan# 15
Delta R.T. 0.006 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion:106 Resp: 5317

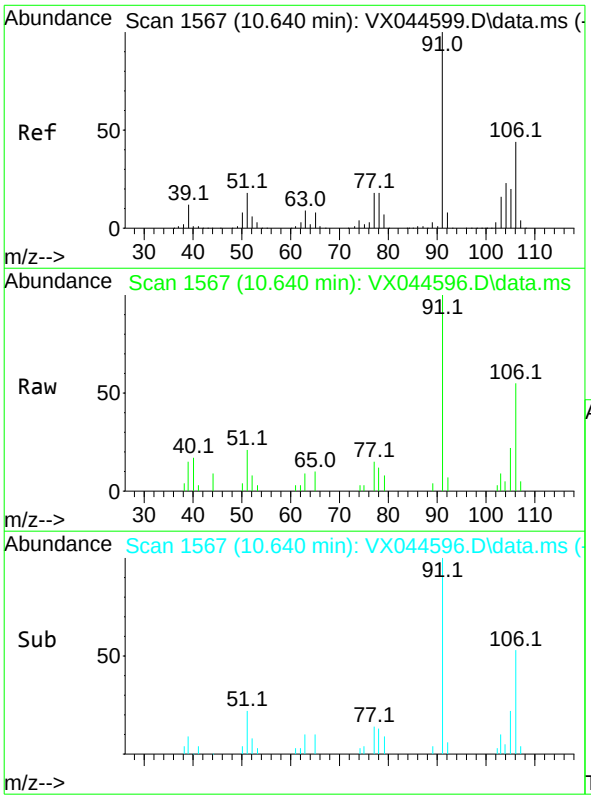
Ion	Ratio	Lower	Upper
106	100		
91	224.8	170.4	255.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

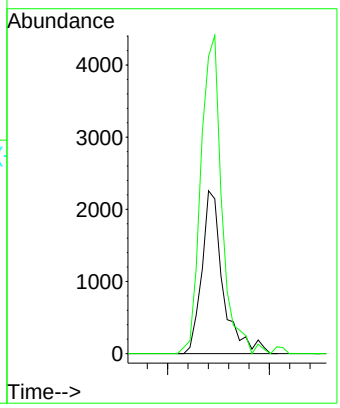
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

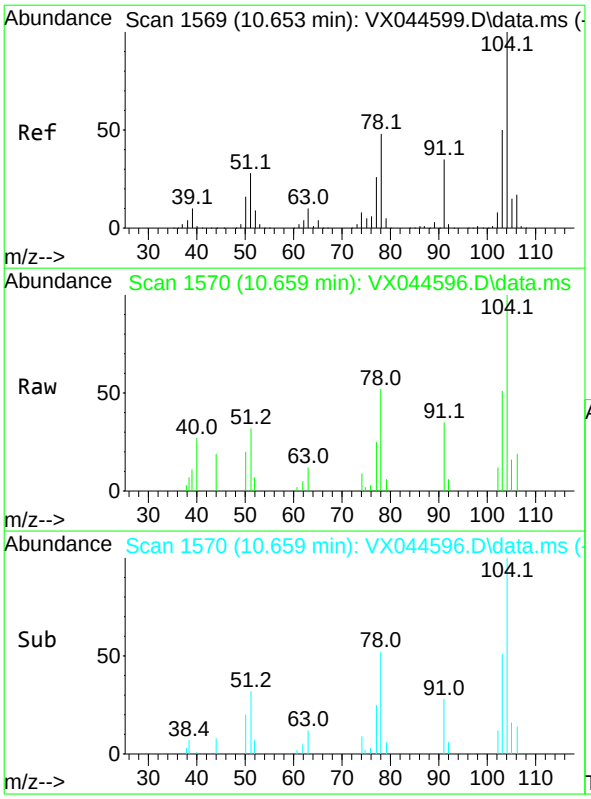


#69
o-Xylene
Concen: 0.942 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion:106 Resp: 3266

Ion	Ratio	Lower	Upper
106	100		
91	193.4	112.3	336.8

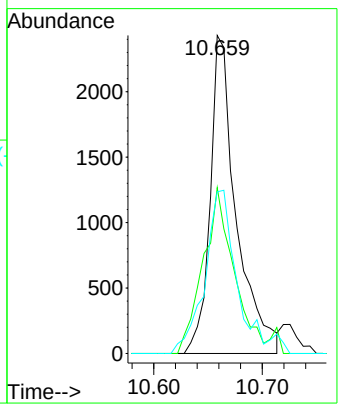




#70
Styrene
Concen: 0.731 ug/l
RT: 10.659 min Scan# 15
Delta R.T. 0.006 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion:104 Resp: 4055

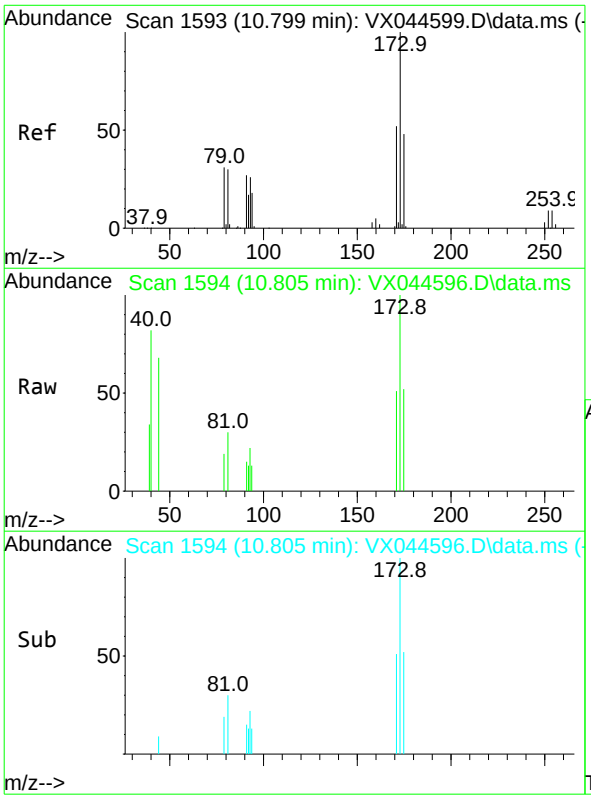
Ion	Ratio	Lower	Upper
104	100		
78	64.5	44.0	66.0
103	63.9	43.8	65.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

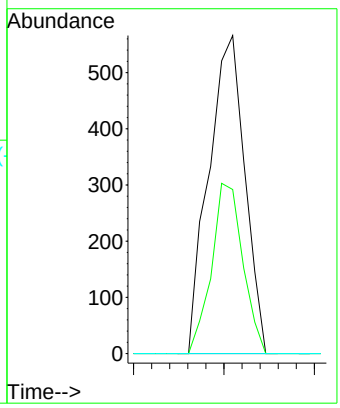
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

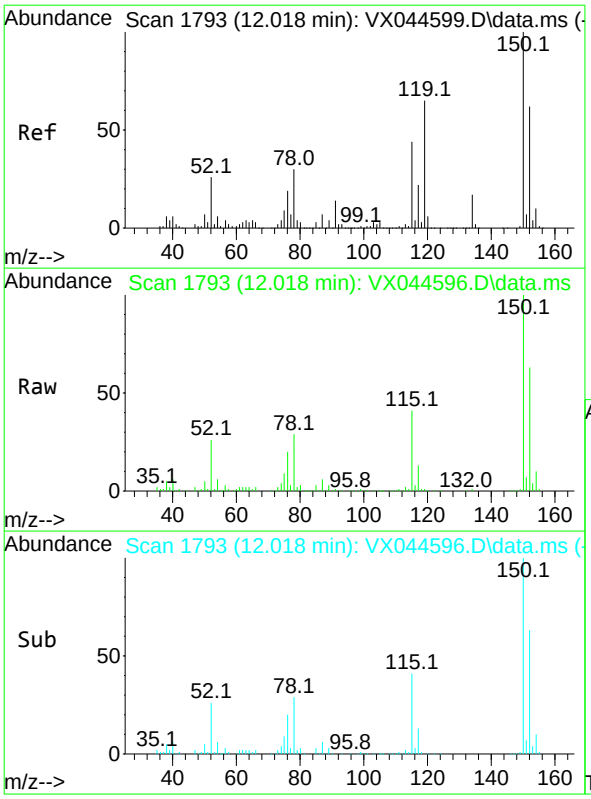


#71
Bromoform
Concen: 1.277 ug/l
RT: 10.805 min Scan# 1594
Delta R.T. 0.006 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion:173 Resp: 784

Ion	Ratio	Lower	Upper
173	100		
175	46.4	24.6	73.8
254	0.0	0.0	0.0

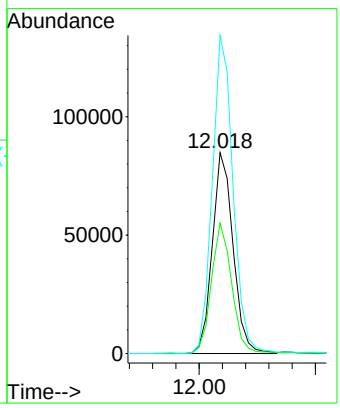




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion:152 Resp: 105249

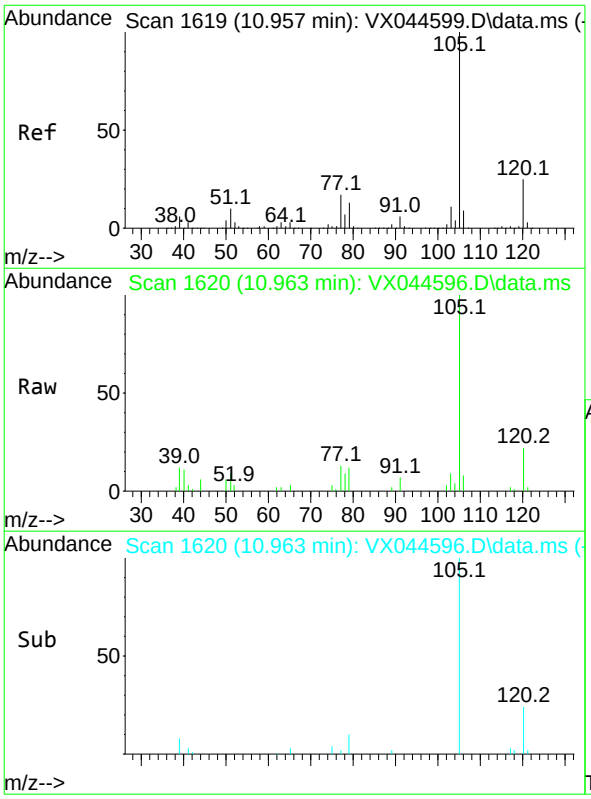
Ion	Ratio	Lower	Upper
152	100		
115	63.8	44.4	133.1
150	158.2	0.0	355.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

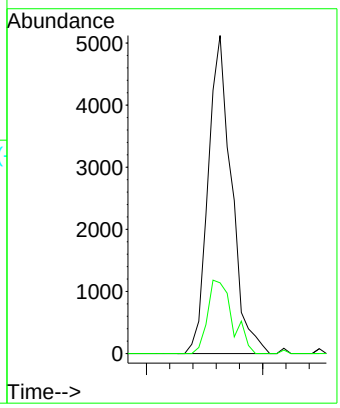
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

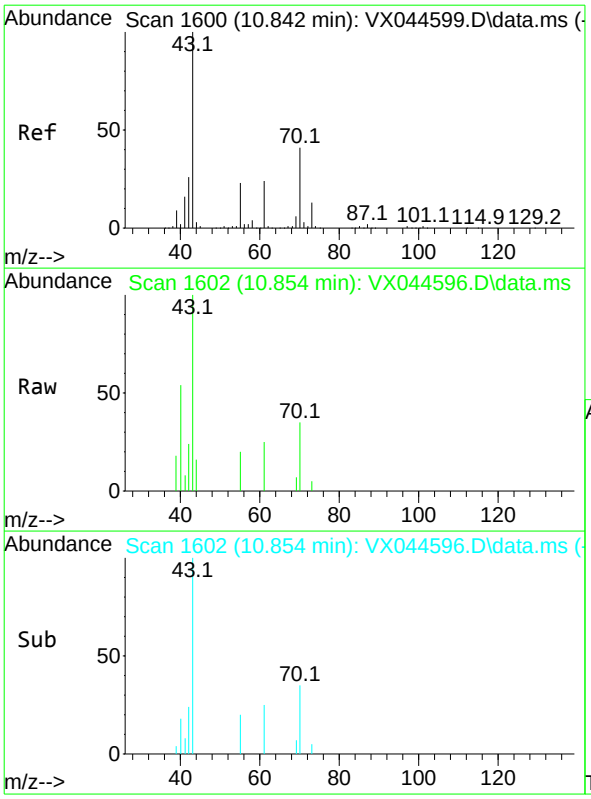


#73
Isopropylbenzene
Concen: 0.916 ug/l
RT: 10.963 min Scan# 1620
Delta R.T. 0.006 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion:105 Resp: 7140

Ion	Ratio	Lower	Upper
105	100		
120	24.5	13.0	38.9

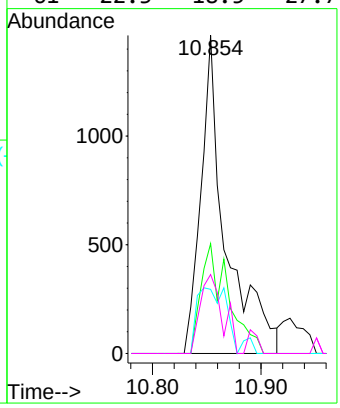




#74
N-amyl acetate
Concen: 0.737 ug/l
RT: 10.854 min Scan# 16
Delta R.T. 0.012 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 43 Resp: 2332

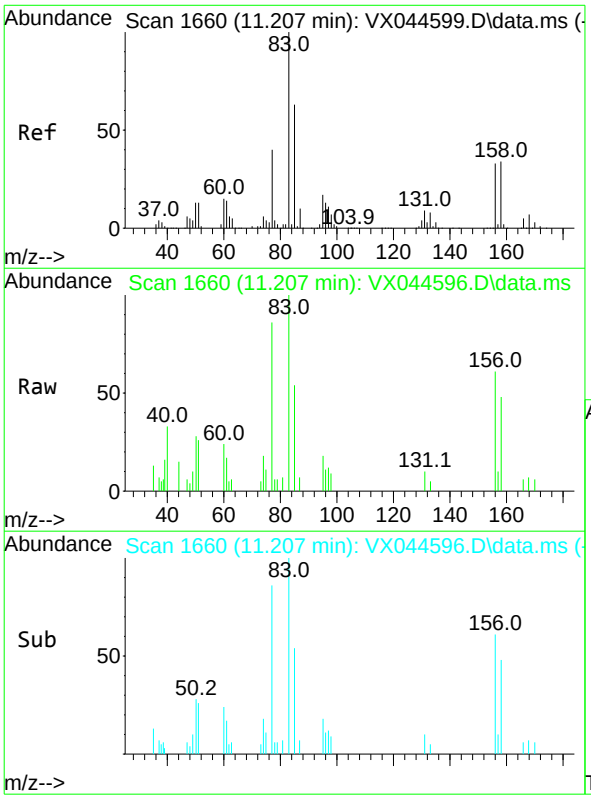
Ion	Ratio	Lower	Upper
43	100		
70	38.1	32.9	49.3
55	26.2	19.0	28.6
61	22.3	18.5	27.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

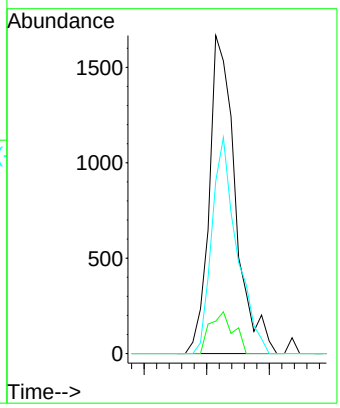
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

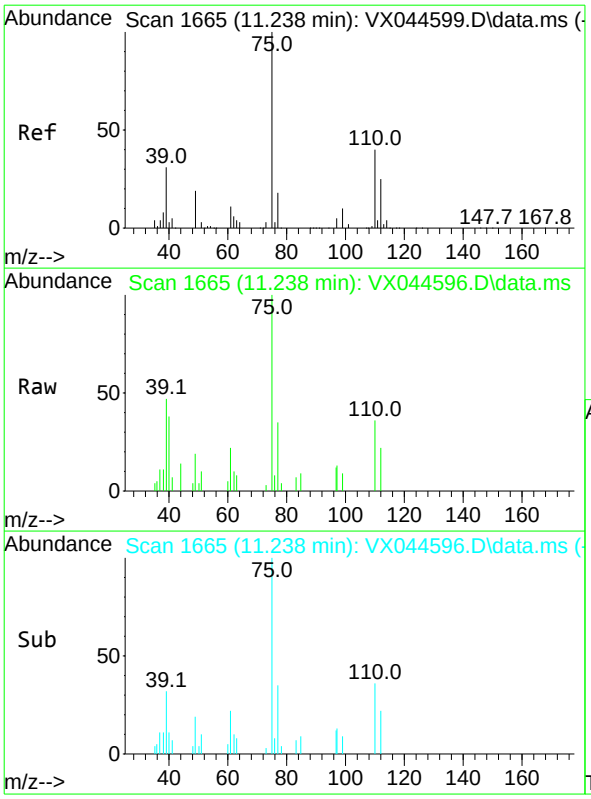


#75
1,1,2,2-Tetrachloroethane
Concen: 0.959 ug/l
RT: 11.207 min Scan# 1660
Delta R.T. -0.000 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 83 Resp: 2410

Ion	Ratio	Lower	Upper
83	100		
131	11.9	5.0	15.0
85	65.1	31.9	95.5

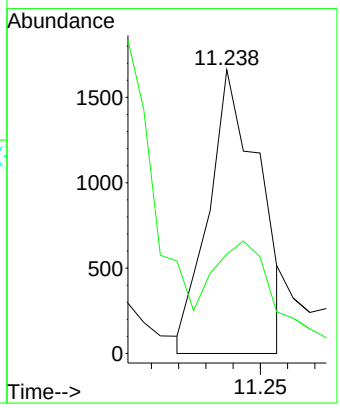




#76
1,2,3-Trichloropropane
Concen: 1.011 ug/l m
RT: 11.238 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 75 Resp: 2134

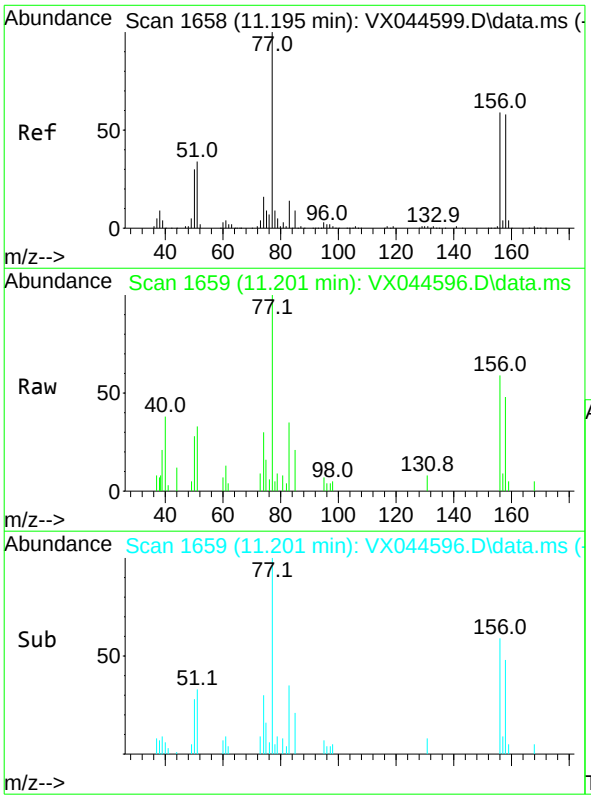
Ion	Ratio	Lower	Upper
75	100		
77	50.8	21.1	63.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

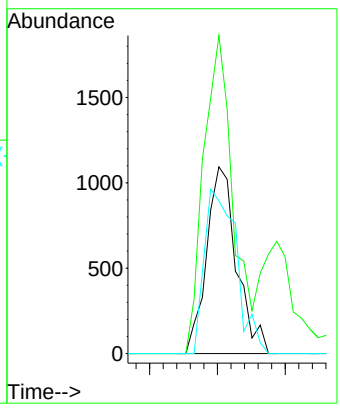
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

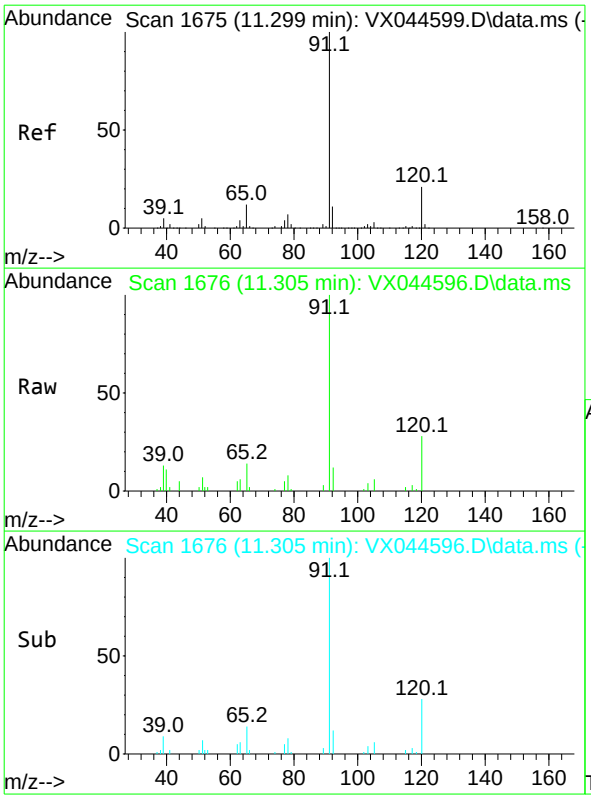


#77
Bromobenzene
Concen: 0.888 ug/l
RT: 11.201 min Scan# 1659
Delta R.T. 0.006 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion:156 Resp: 1682

Ion	Ratio	Lower	Upper
156	100		
77	165.7	85.7	257.1
158	94.2	49.9	149.6

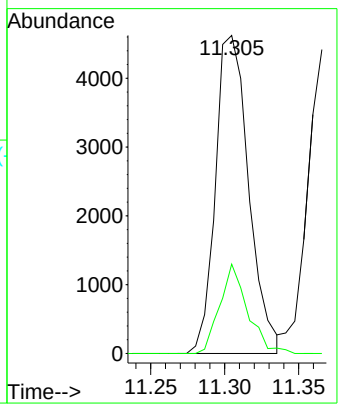




#78
n-propylbenzene
Concen: 0.822 ug/l
RT: 11.305 min Scan# 16
Delta R.T. 0.006 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 91 Resp: 7221

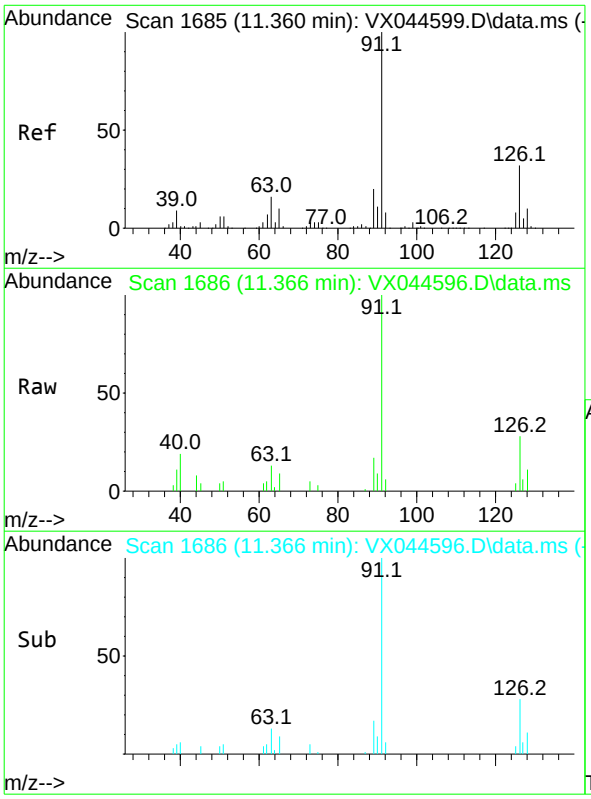
Ion	Ratio	Lower	Upper
91	100		
120	23.5	11.2	33.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

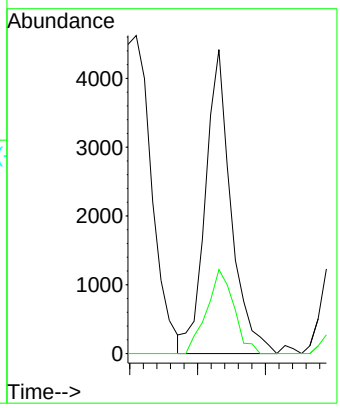
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

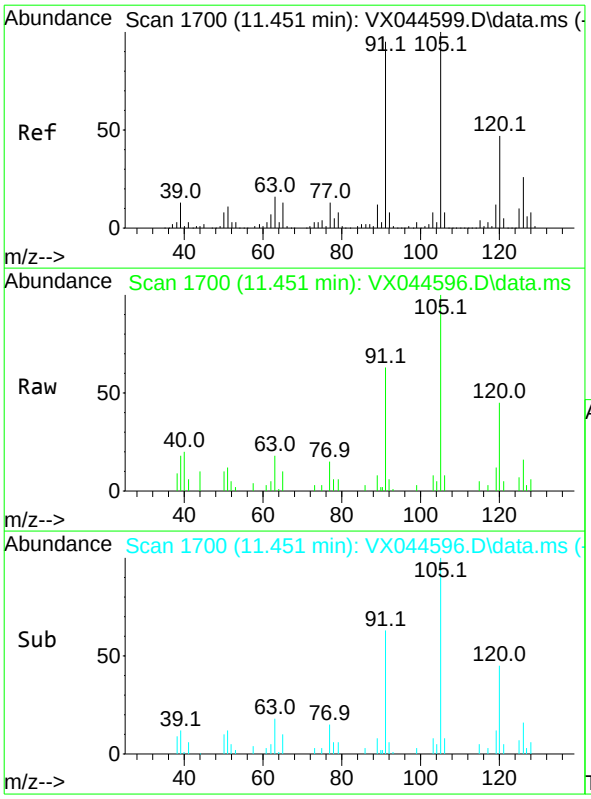


#79
2-Chlorotoluene
Concen: 1.019 ug/l
RT: 11.366 min Scan# 1686
Delta R.T. 0.006 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 91 Resp: 5802

Ion	Ratio	Lower	Upper
91	100		
126	29.2	16.4	49.2

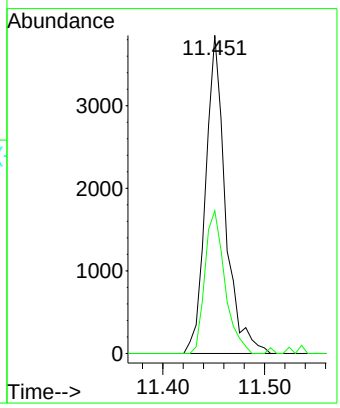




#80
1,3,5-Trimethylbenzene
Concen: 0.805 ug/l
RT: 11.451 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion:105 Resp: 5205

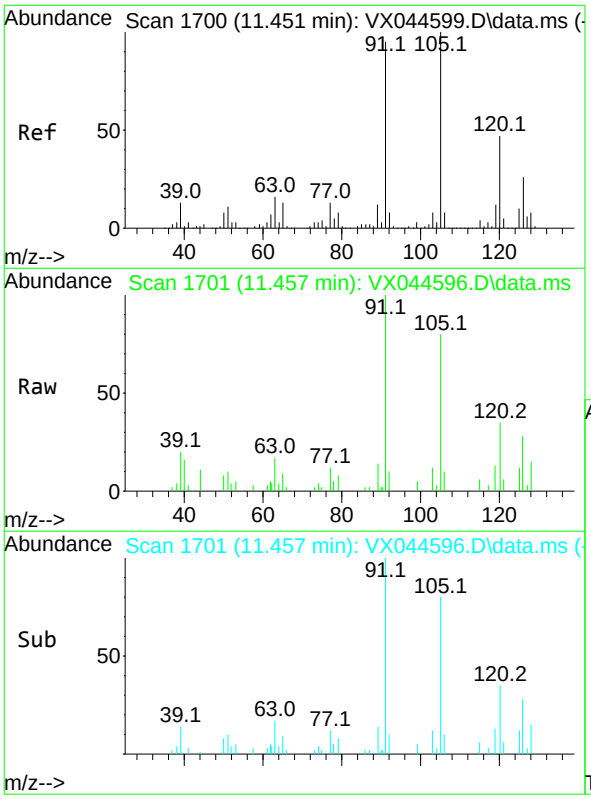
Ion	Ratio	Lower	Upper
105	100		
120	45.1	23.5	70.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

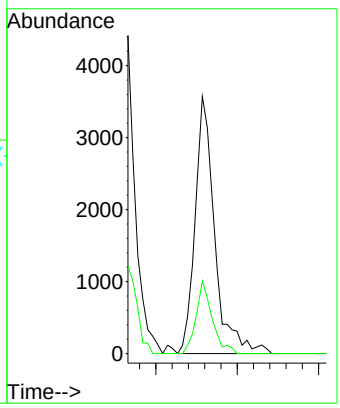
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

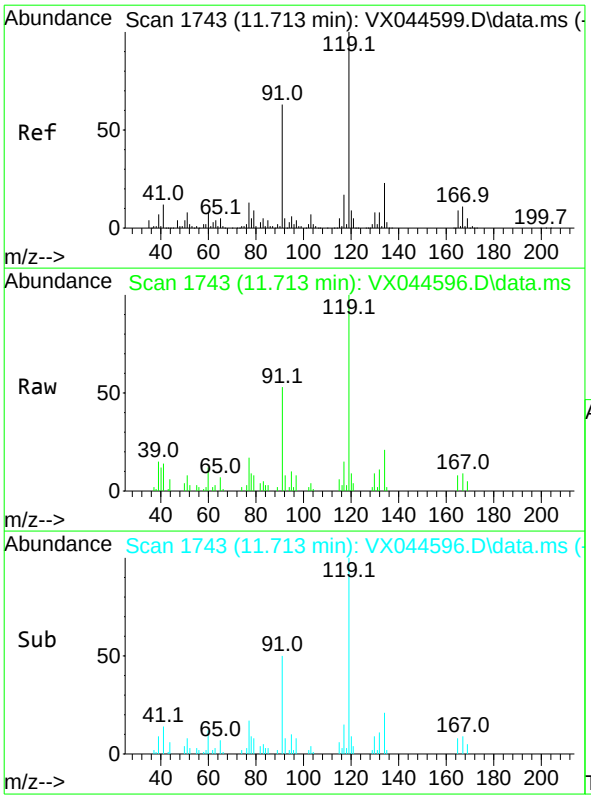


#82
4-Chlorotoluene
Concen: 0.936 ug/l
RT: 11.457 min Scan# 1701
Delta R.T. 0.006 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 91 Resp: 5992

Ion	Ratio	Lower	Upper
91	100		
126	23.2	14.0	42.0

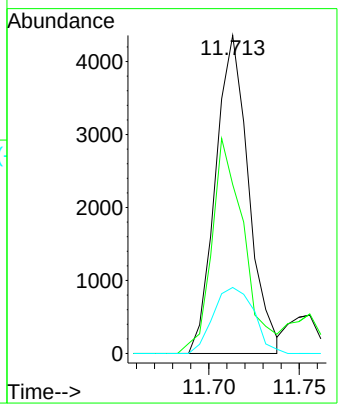




#83
tert-Butylbenzene
Concen: 0.860 ug/l
RT: 11.713 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion:119 Resp: 5537

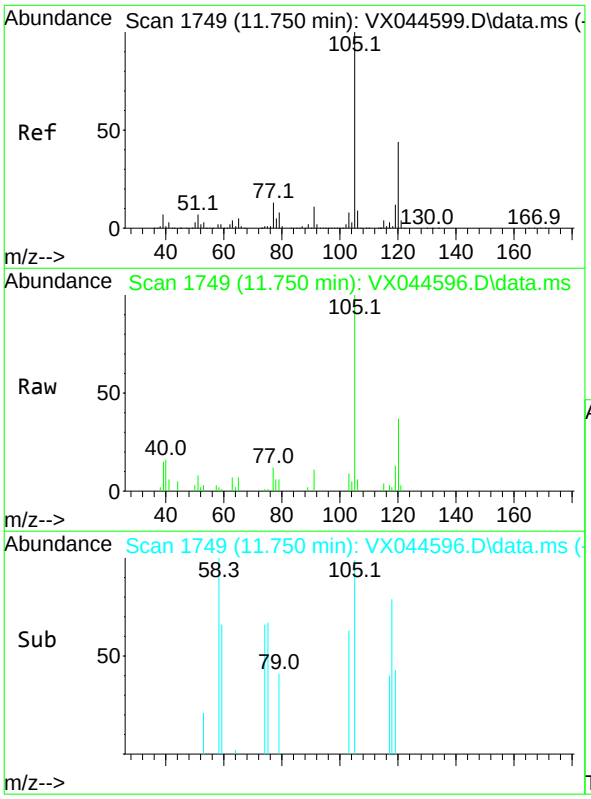
Ion	Ratio	Lower	Upper
119	100		
91	65.8	30.9	92.8
134	25.6	11.7	35.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

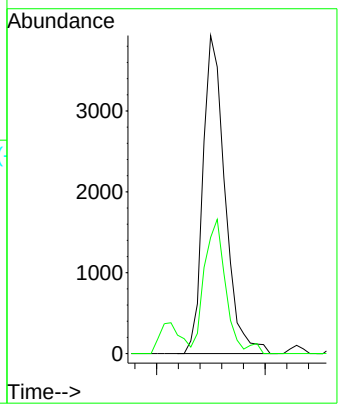
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

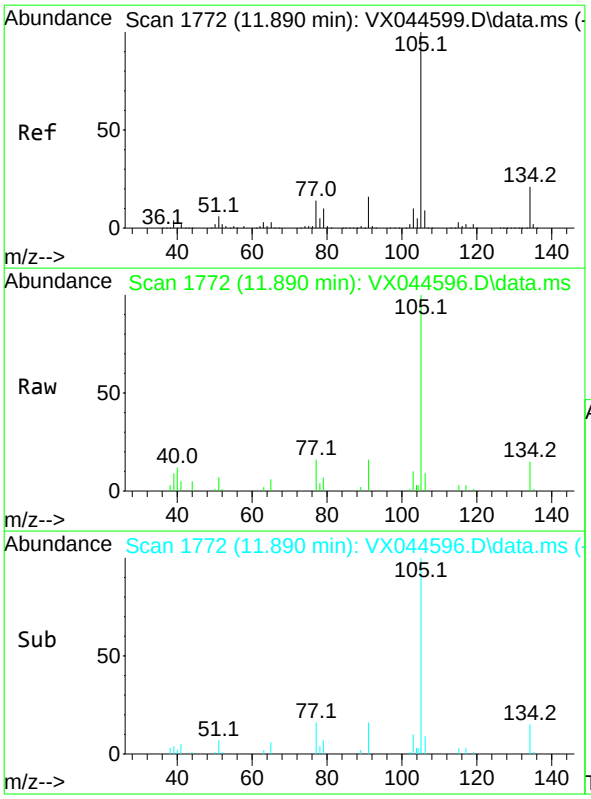


#84
1,2,4-Trimethylbenzene
Concen: 0.854 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion:105 Resp: 5545

Ion	Ratio	Lower	Upper
105	100		
120	41.3	21.9	65.7

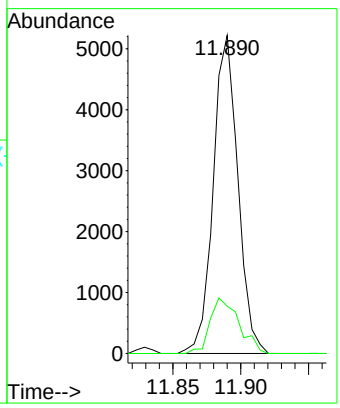




#85
sec-Butylbenzene
Concen: 0.841 ug/l
RT: 11.890 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion:105 Resp: 6591

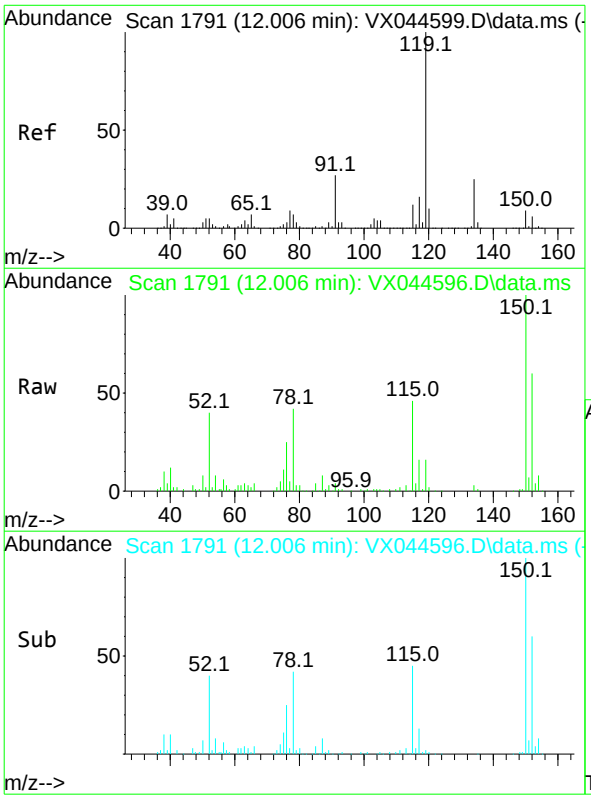
Ion	Ratio	Lower	Upper
105	100		
134	20.5	9.9	29.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

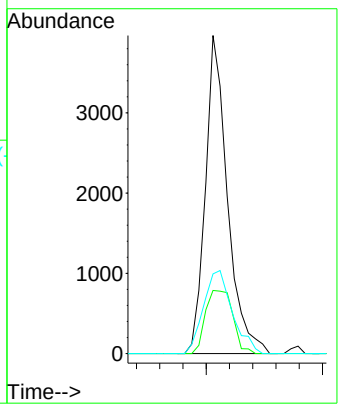
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

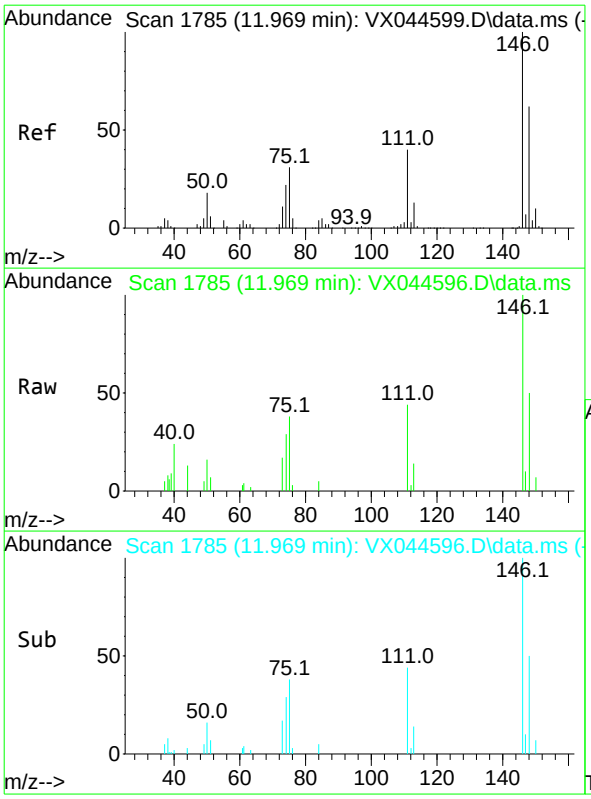


#86
p-Isopropyltoluene
Concen: 0.795 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion:119 Resp: 5229

Ion	Ratio	Lower	Upper
119	100		
134	24.5	12.6	37.8
91	34.1	13.1	39.1

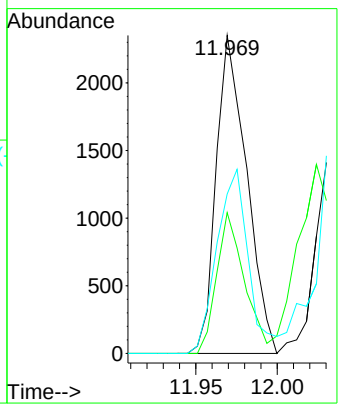




#87
1,3-Dichlorobenzene
Concen: 0.894 ug/l
RT: 11.969 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion:146 Resp: 3064

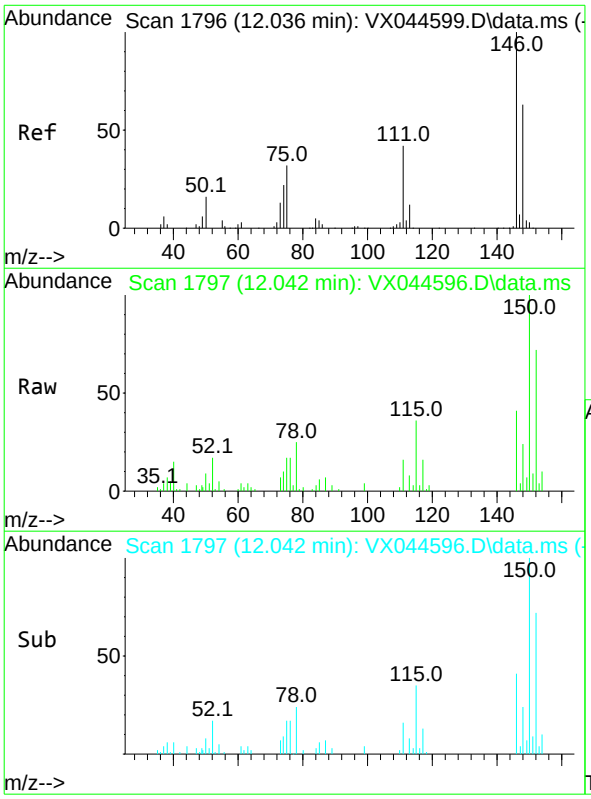
Ion	Ratio	Lower	Upper
146	100		
111	40.3	21.0	63.0
148	60.0	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

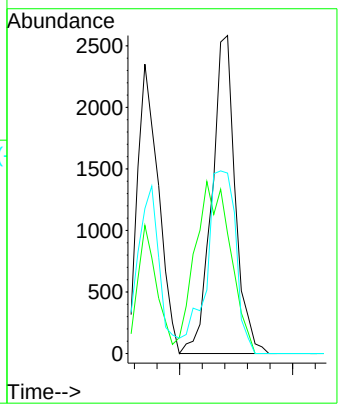
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

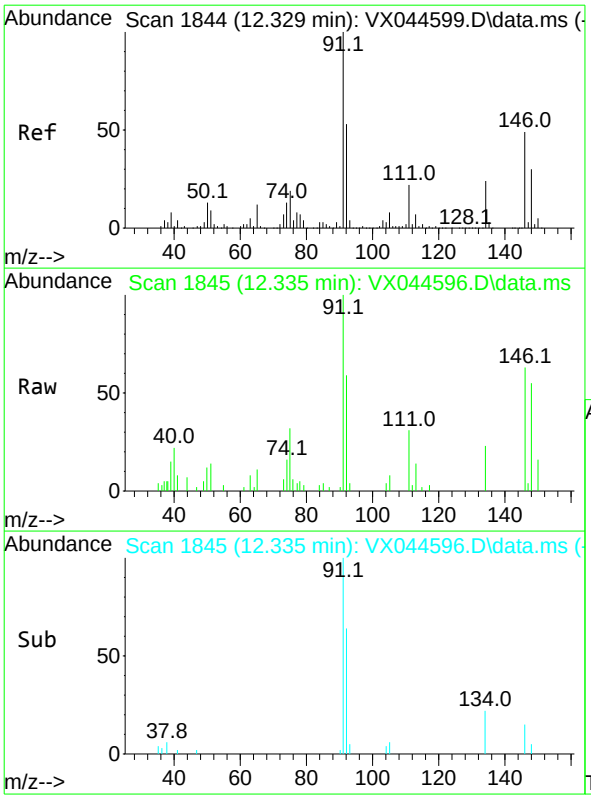


#88
1,4-Dichlorobenzene
Concen: 1.039 ug/l m
RT: 12.042 min Scan# 1797
Delta R.T. 0.006 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion:146 Resp: 3710

Ion	Ratio	Lower	Upper
146	100		
111	33.3	20.7	62.1
148	49.5	31.8	95.4

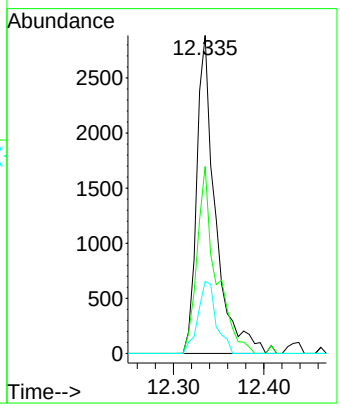




#89
n-Butylbenzene
Concen: 0.745 ug/l
RT: 12.335 min Scan# 18
Delta R.T. 0.006 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 91 Resp: 4140

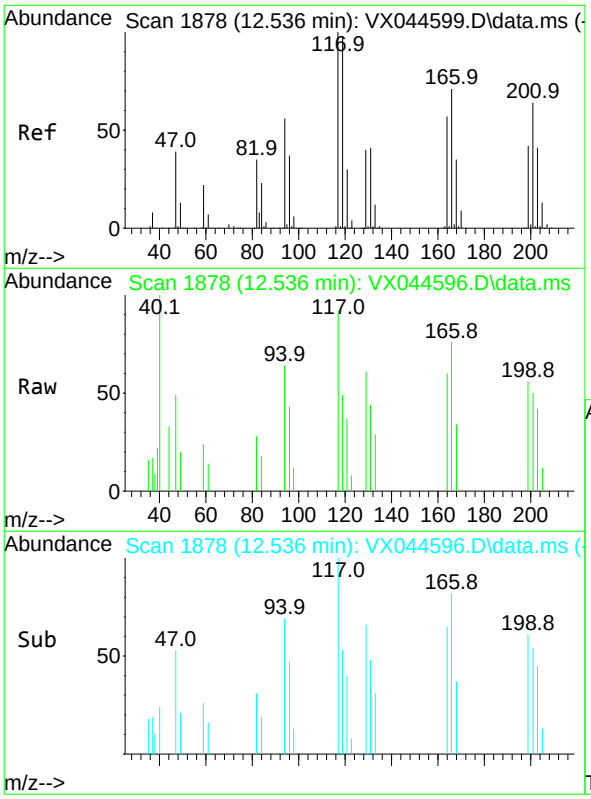
Ion	Ratio	Lower	Upper
91	100		
92	59.5	26.5	79.4
134	22.1	12.4	37.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

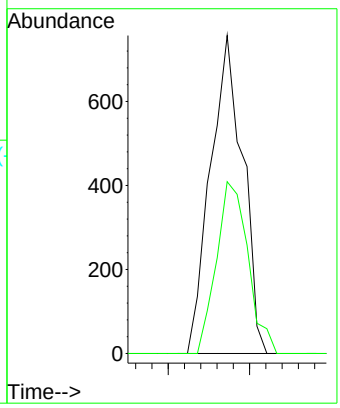
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

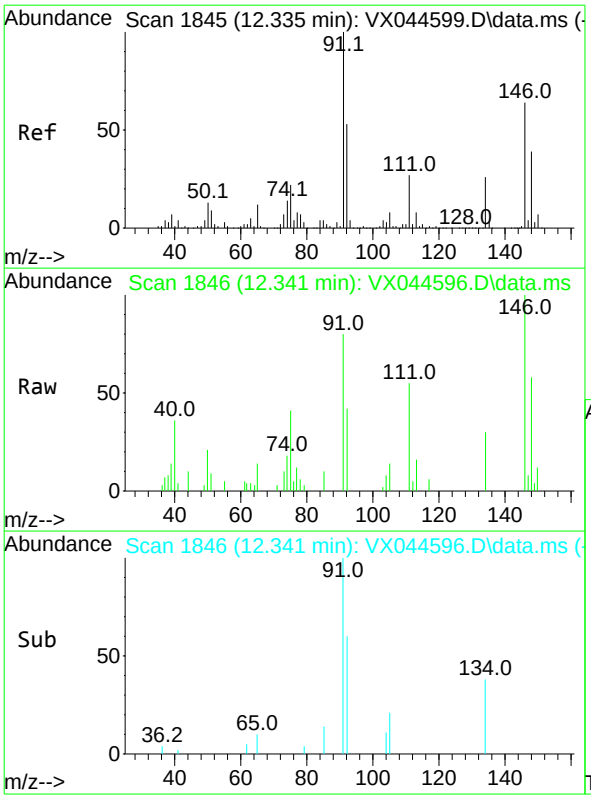


#90
Hexachloroethane
Concen: 0.988 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion:117 Resp: 1044

Ion	Ratio	Lower	Upper
117	100		
201	52.8	33.6	100.6

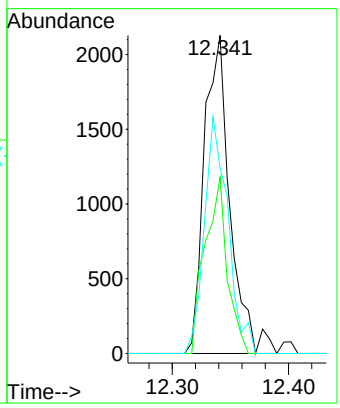




#91
1,2-Dichlorobenzene
Concen: 0.948 ug/l
RT: 12.341 min Scan# 18
Delta R.T. 0.006 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion:146 Resp: 3284

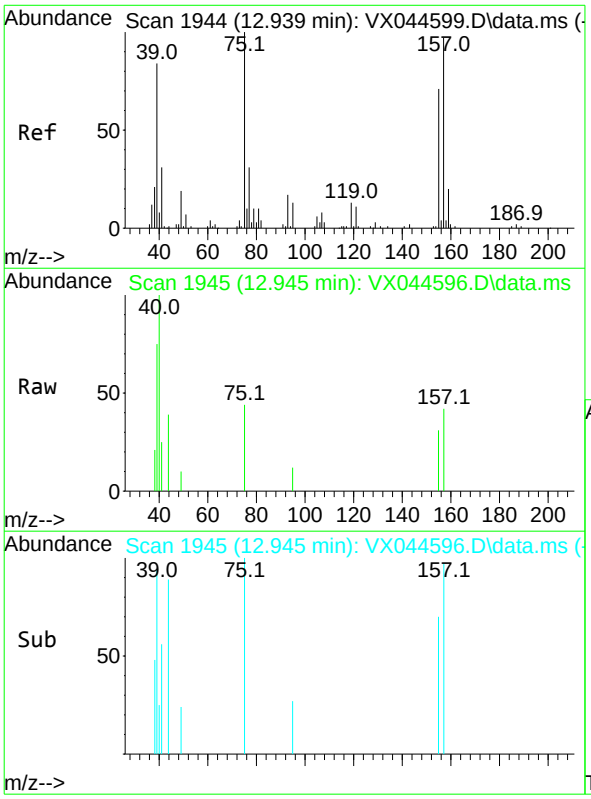
Ion	Ratio	Lower	Upper
146	100		
111	47.8	21.8	65.4
148	68.3	31.1	93.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

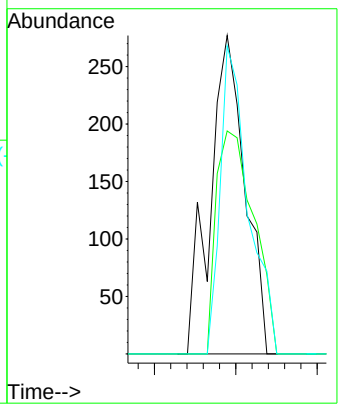
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

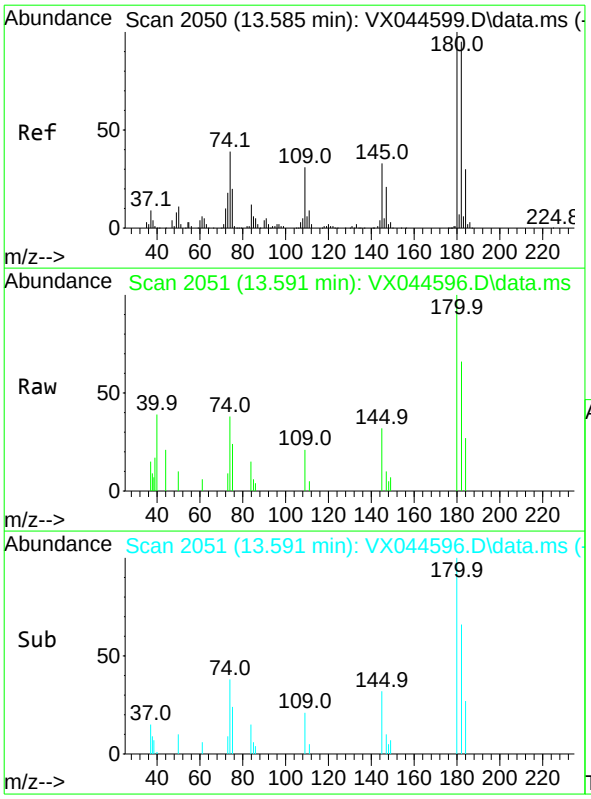


#92
1,2-Dibromo-3-Chloropropane
Concen: 0.871 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. 0.006 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 75 Resp: 415

Ion	Ratio	Lower	Upper
75	100		
155	75.4	37.4	112.1
157	77.3	48.0	144.2

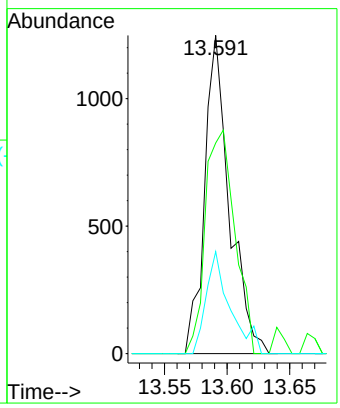




#93
1,2,4-Trichlorobenzene
Concen: 0.846 ug/l
RT: 13.591 min Scan# 20
Delta R.T. 0.006 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion:180 Resp: 1722

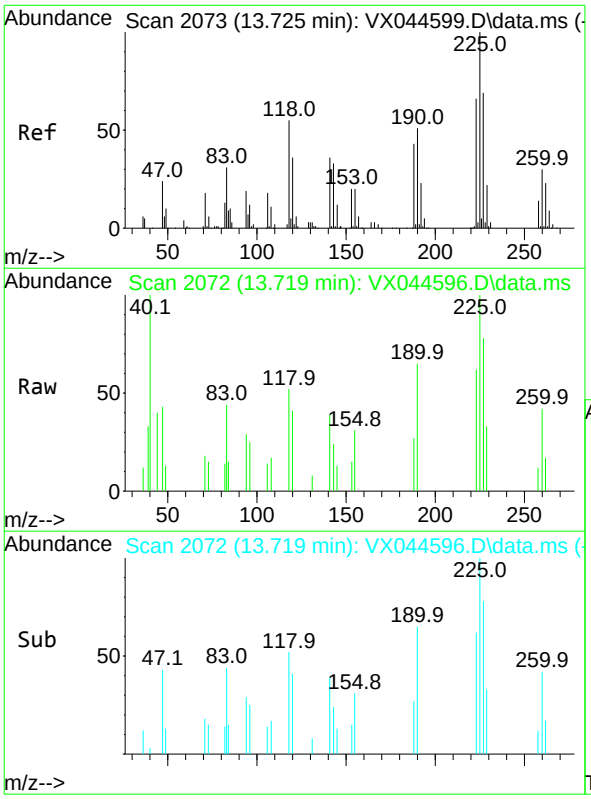
Ion	Ratio	Lower	Upper
180	100		
182	83.7	47.9	143.6
145	30.9	16.3	48.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

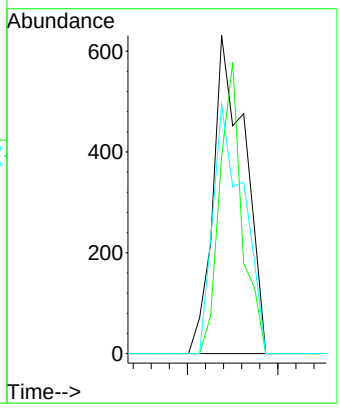
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

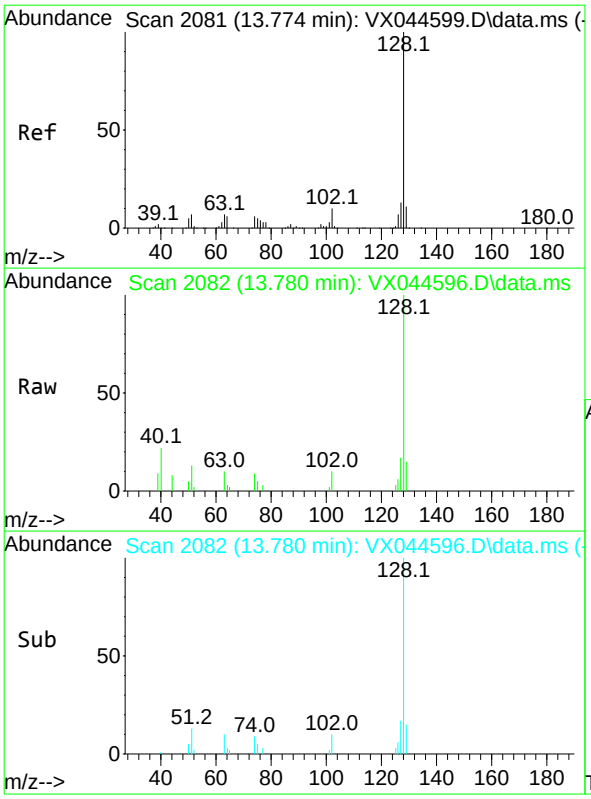


#94
Hexachlorobutadiene
Concen: 0.903 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. -0.006 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion:225 Resp: 765

Ion	Ratio	Lower	Upper
225	100		
223	64.7	31.6	94.8
227	75.2	31.9	95.9

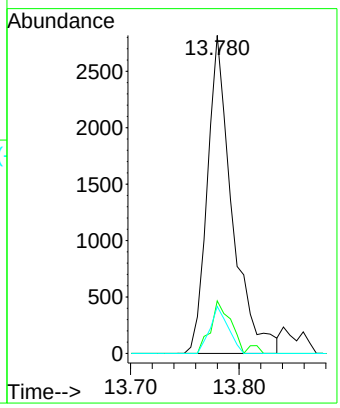




#95
Naphthalene
Concen: 0.679 ug/l
RT: 13.780 min Scan# 20
Delta R.T. 0.006 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion:128 Resp: 4461

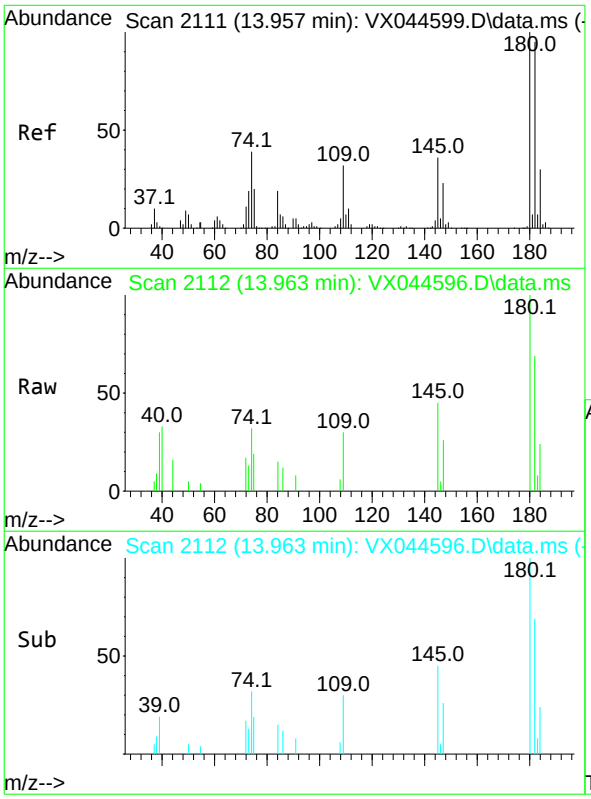
Ion	Ratio	Lower	Upper
128	100		
127	14.4	10.5	15.7
129	10.9	8.6	13.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

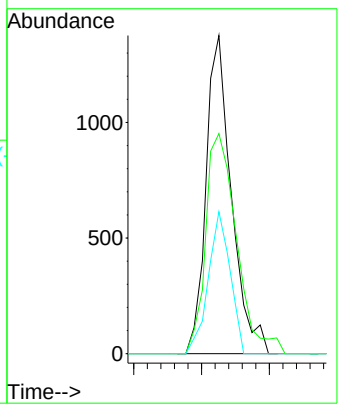
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025



#96
1,2,3-Trichlorobenzene
Concen: 0.859 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. 0.006 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion:180 Resp: 1788

Ion	Ratio	Lower	Upper
180	100		
182	84.4	47.6	142.9
145	38.4	17.6	52.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044597.D
Acq On : 07 Jan 2025 10:29
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 08 02:27:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 02:18:40 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.550	168	188117	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	6.751	114	328814	50.000	ug/l		0.00
63) Chlorobenzene-d5	10.055	117	281481	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	122676	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	5.958	65	17286	5.699	ug/l		0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 11.400%#				
35) Dibromofluoromethane	5.391	113	11648	5.166	ug/l		0.01
Spiked Amount 50.000	Range 75 - 124		Recovery = 10.340%#				
50) Toluene-d8	8.647	98	39205	5.090	ug/l		0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 10.180%#				
62) 4-Bromofluorobenzene	11.079	95	13290	4.889	ug/l		0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 9.780%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.166	85	13312	4.891	ug/l		98
3) Chloromethane	1.294	50	14940	5.508	ug/l		90
4) Vinyl Chloride	1.374	62	13242	5.204	ug/l		92
5) Bromomethane	1.599	94	7148	5.423	ug/l		98
6) Chloroethane	1.666	64	6970	5.160	ug/l		89
7) Trichlorofluoromethane	1.874	101	19516	5.151	ug/l		99
8) Diethyl Ether	2.130	74	6099	4.556	ug/l		92
9) 1,1,2-Trichlorotrifluo...	2.319	101	11029	5.077	ug/l		95
10) Methyl Iodide	2.447	142	15781	5.210	ug/l		91
11) Tert butyl alcohol	3.001	59	10600	28.381	ug/l		99
12) 1,1-Dichloroethene	2.312	96	11046	5.249	ug/l		86
13) Acrolein	2.233	56	12556	25.426	ug/l		99
14) Allyl chloride	2.660	41	17002	4.858	ug/l		92
15) Acrylonitrile	3.068	53	28298	26.307	ug/l		100
16) Acetone	2.380	43	20234	21.165	ug/l		93
17) Carbon Disulfide	2.501	76	19658	4.517	ug/l		99
18) Methyl Acetate	2.703	43	15024	5.325	ug/l		97
19) Methyl tert-butyl Ether	3.111	73	37226	5.162	ug/l		99
20) Methylene Chloride	2.788	84	12356	5.066	ug/l		96
21) trans-1,2-Dichloroethene	3.087	96	10897	5.045	ug/l		97
22) Diisopropyl ether	3.757	45	39202	5.449	ug/l	#	83
23) Vinyl Acetate	3.721	43	144231	24.790	ug/l		100
24) 1,1-Dichloroethane	3.605	63	22208	5.297	ug/l		99
25) 2-Butanone	4.562	43	36925	26.760	ug/l		95
26) 2,2-Dichloropropane	4.458	77	18007	4.968	ug/l		97
27) cis-1,2-Dichloroethene	4.489	96	14357	5.451	ug/l		91
28) Bromochloromethane	4.891	49	10190	5.222	ug/l	#	15
29) Tetrahydrofuran	5.007	42	25119	26.583	ug/l		99
30) Chloroform	5.086	83	24763	5.479	ug/l		100
31) Cyclohexane	5.464	56	17152	4.983	ug/l		87
32) 1,1,1-Trichloroethane	5.379	97	19887	5.229	ug/l		97
36) 1,1-Dichloropropene	5.684	75	15012	5.149	ug/l	#	82
37) Ethyl Acetate	4.721	43	14899	4.999	ug/l		98
38) Carbon Tetrachloride	5.666	117	15014	4.641	ug/l		98
39) Methylcyclohexane	7.373	83	18627	5.007	ug/l		96
40) Benzene	6.031	78	47650	5.191	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044597.D
Acq On : 07 Jan 2025 10:29
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 08 02:27:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 02:18:40 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	4.934	41	8340	5.209 ug/l #	91
42) 1,2-Dichloroethane	6.086	62	19283	5.371 ug/l	100
43) Isopropyl Acetate	6.336	43	24971	5.075 ug/l	98
44) Trichloroethene	7.123	130	11966	5.099 ug/l	91
45) 1,2-Dichloropropane	7.434	63	11185	4.997 ug/l	98
46) Dibromomethane	7.586	93	8827	5.071 ug/l	96
47) Bromodichloromethane	7.818	83	15524	4.901 ug/l	98
48) Methyl methacrylate	7.696	41	11428	4.870 ug/l	95
49) 1,4-Dioxane	7.677	88	3337	96.762 ug/l #	76
51) 4-Methyl-2-Pentanone	8.574	43	74867	26.029 ug/l	98
52) Toluene	8.720	92	28506	5.147 ug/l	97
53) t-1,3-Dichloropropene	8.982	75	13689	4.521 ug/l #	87
54) cis-1,3-Dichloropropene	8.366	75	15789	4.640 ug/l	95
55) 1,1,2-Trichloroethane	9.147	97	11331	5.218 ug/l	97
56) Ethyl methacrylate	9.122	69	14973	4.741 ug/l	97
57) 1,3-Dichloropropane	9.305	76	19219	5.271 ug/l	99
58) 2-Chloroethyl Vinyl ether	8.238	63	37113	23.707 ug/l	100
59) 2-Hexanone	9.433	43	51047	25.095 ug/l	98
60) Dibromochloromethane	9.518	129	10022	4.629 ug/l	97
61) 1,2-Dibromoethane	9.610	107	11169	5.093 ug/l	96
64) Tetrachloroethene	9.269	164	10421	5.236 ug/l	90
65) Chlorobenzene	10.079	112	30656	5.132 ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.159	131	9592	4.834 ug/l	96
67) Ethyl Benzene	10.195	91	52173	5.086 ug/l	97
68) m/p-Xylenes	10.299	106	38109	10.109 ug/l	97
69) o-Xylene	10.640	106	18309	4.812 ug/l	96
70) Styrene	10.659	104	28881	4.745 ug/l	100
71) Bromoform	10.799	173	5635	4.960 ug/l #	98
73) Isopropylbenzene	10.963	105	46634	5.131 ug/l	98
74) N-amyl acetate	10.848	43	18861	5.114 ug/l	96
75) 1,1,2,2-Tetrachloroethane	11.213	83	16194	5.528 ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	12940m	5.262 ug/l	
77) Bromobenzene	11.201	156	11951	5.413 ug/l	94
78) n-propylbenzene	11.305	91	53610	5.237 ug/l	99
79) 2-Chlorotoluene	11.366	91	35356	5.330 ug/l	98
80) 1,3,5-Trimethylbenzene	11.451	105	40862	5.422 ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	3211	3.975 ug/l #	82
82) 4-Chlorotoluene	11.457	91	39535	5.298 ug/l	95
83) tert-Butylbenzene	11.713	119	39571	5.274 ug/l	97
84) 1,2,4-Trimethylbenzene	11.750	105	37556	4.961 ug/l	97
85) sec-Butylbenzene	11.890	105	47269	5.173 ug/l	99
86) p-Isopropyltoluene	12.006	119	38691	5.046 ug/l	97
87) 1,3-Dichlorobenzene	11.969	146	20352	5.096 ug/l	97
88) 1,4-Dichlorobenzene	12.042	146	21839	5.248 ug/l	95
89) n-Butylbenzene	12.329	91	30630	4.731 ug/l	98
90) Hexachloroethane	12.536	117	5241	4.255 ug/l	100
91) 1,2-Dichlorobenzene	12.335	146	20848	5.165 ug/l	97
92) 1,2-Dibromo-3-Chloropr...	12.945	75	2550	4.591 ug/l	93
93) 1,2,4-Trichlorobenzene	13.591	180	11030	4.650 ug/l	97
94) Hexachlorobutadiene	13.725	225	4946	5.007 ug/l	95
95) Naphthalene	13.774	128	34693	4.533 ug/l	99
96) 1,2,3-Trichlorobenzene	13.963	180	11316	4.667 ug/l	98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044597.D
Acq On : 07 Jan 2025 10:29
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

Quant Time: Jan 08 02:27:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 02:18:40 2025
Response via : Initial Calibration

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

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

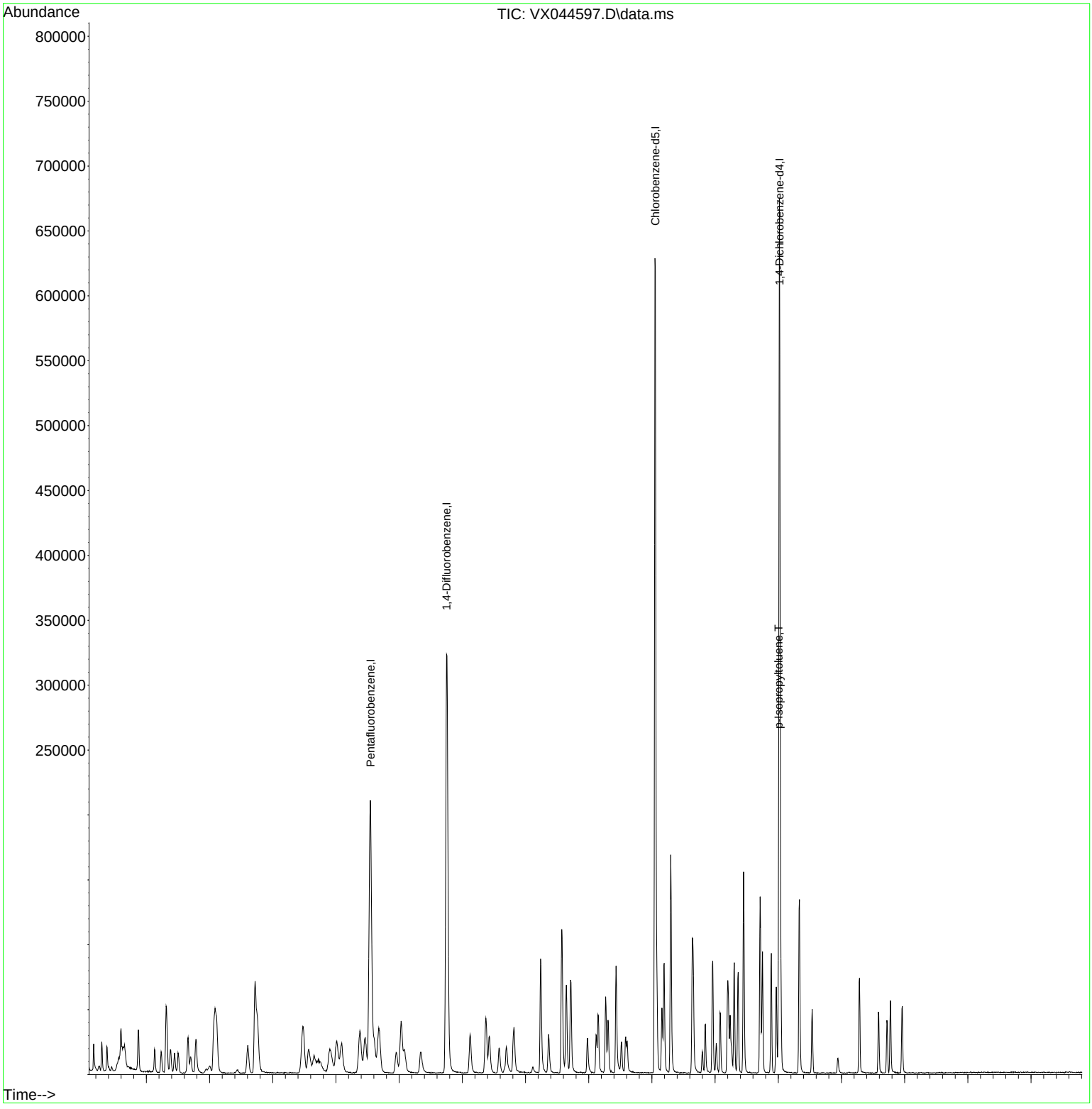
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044597.D
Acq On : 07 Jan 2025 10:29
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

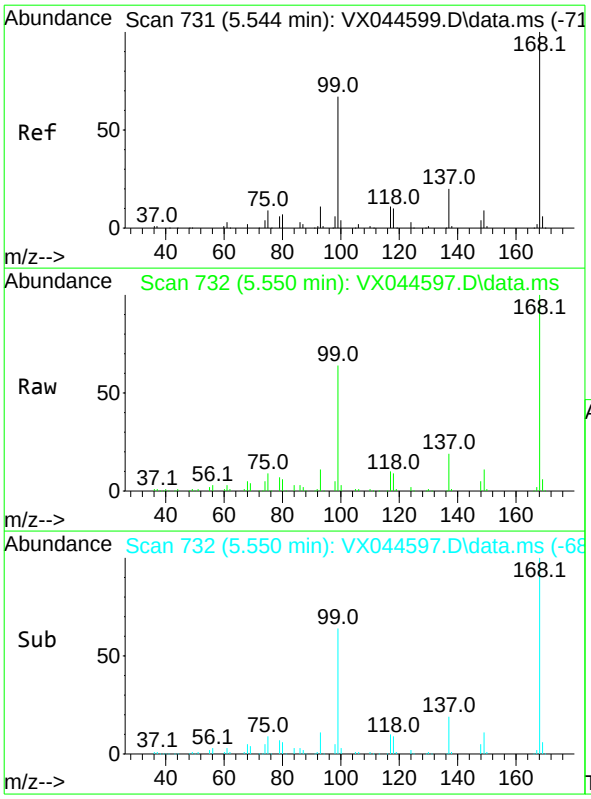
Quant Time: Jan 08 02:27:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 02:18:40 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

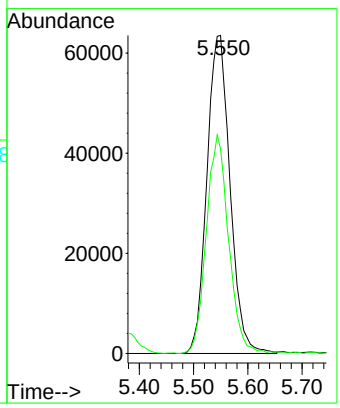




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 73
Delta R.T. 0.006 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion:168 Resp: 188117

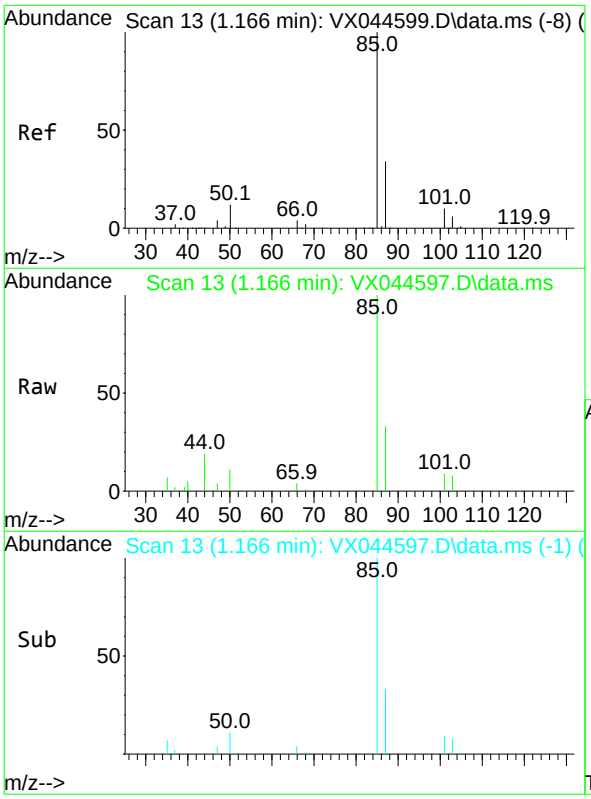
Ion	Ratio	Lower	Upper
168	100		
99	64.3	53.5	80.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

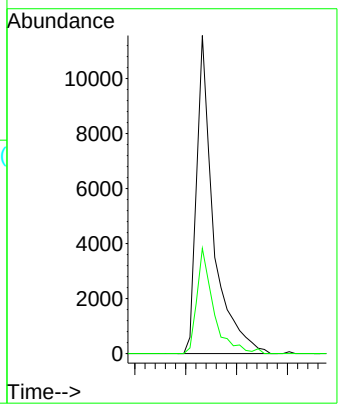
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

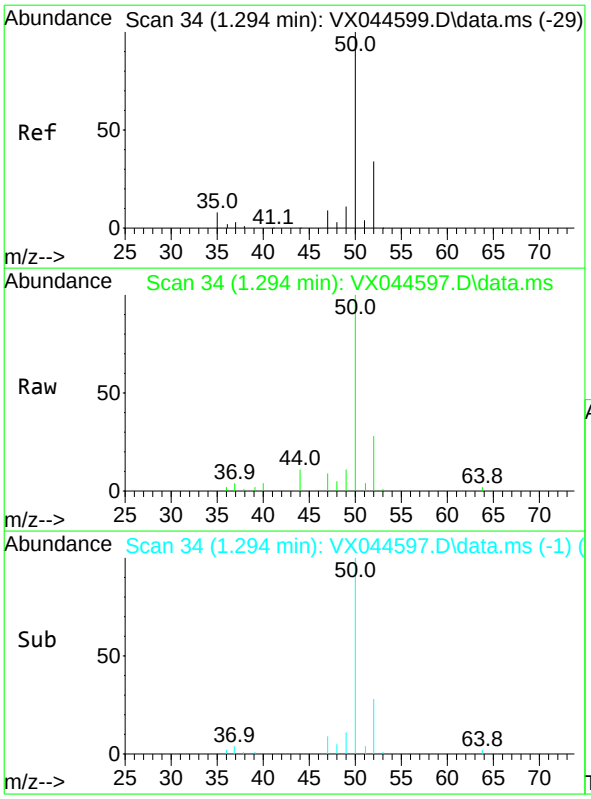


#2
Dichlorodifluoromethane
Concen: 4.891 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 85 Resp: 13312

Ion	Ratio	Lower	Upper
85	100		
87	33.1	17.2	51.5

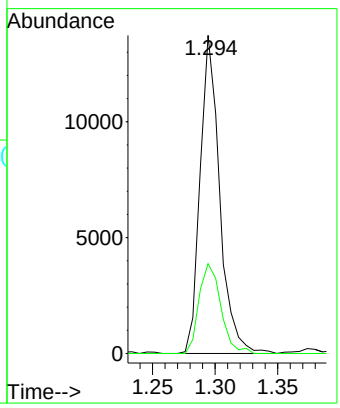




#3
Chloromethane
Concen: 5.508 ug/l
RT: 1.294 min Scan# 34
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 50 Resp: 14940

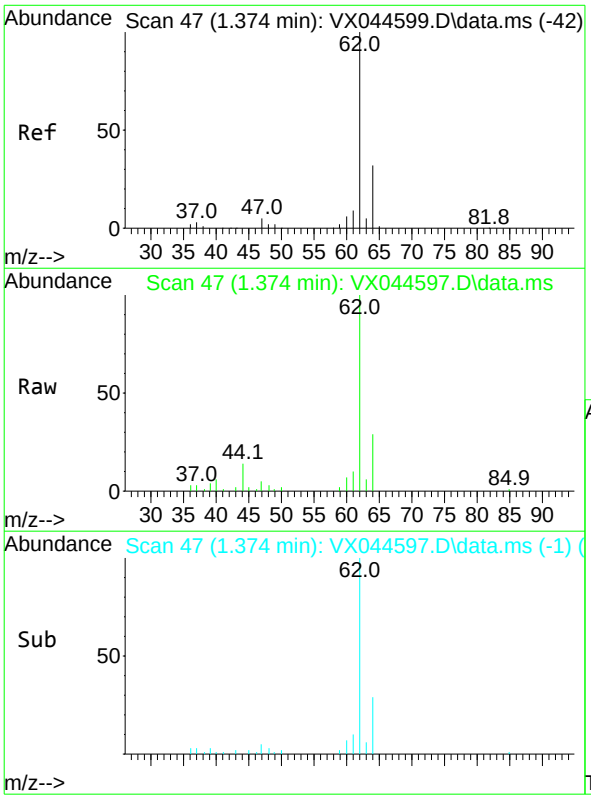
Ion	Ratio	Lower	Upper
50	100		
52	28.2	27.0	40.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

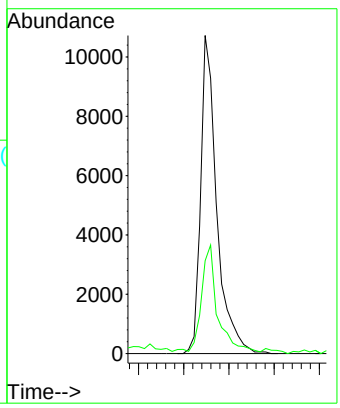
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

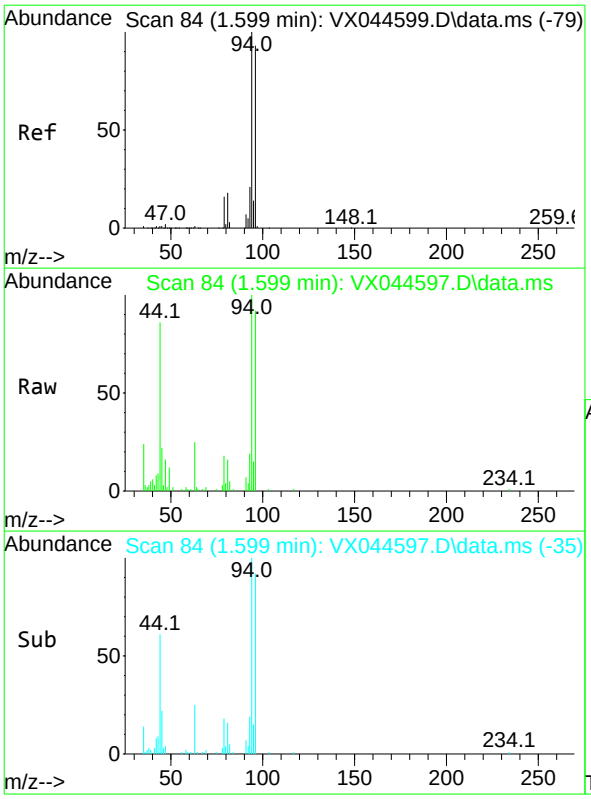


#4
Vinyl Chloride
Concen: 5.204 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 62 Resp: 13242

Ion	Ratio	Lower	Upper
62	100		
64	28.2	26.0	39.0

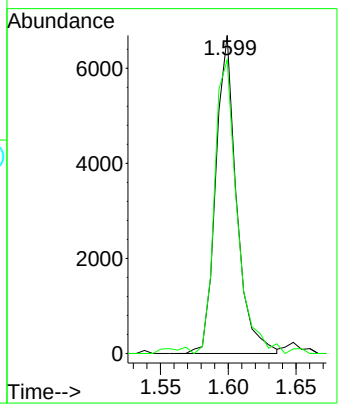




#5
Bromomethane
Concen: 5.423 ug/l
RT: 1.599 min Scan# 84
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 94 Resp: 7148

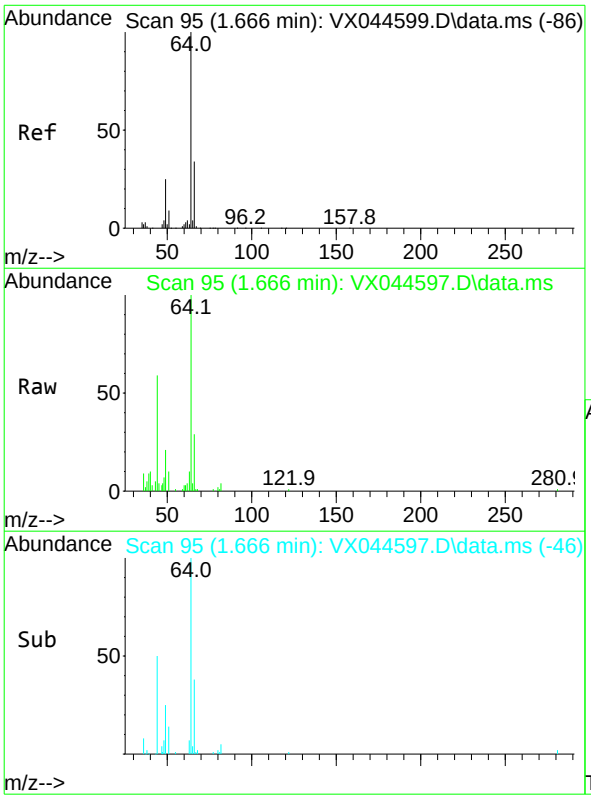
Ion	Ratio	Lower	Upper
94	100		
96	91.3	74.6	112.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

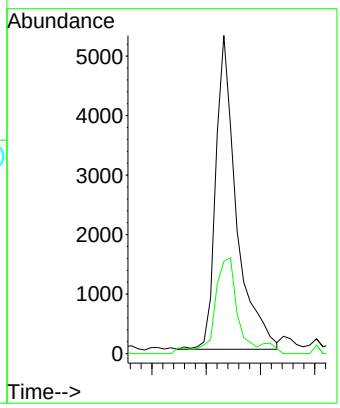
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

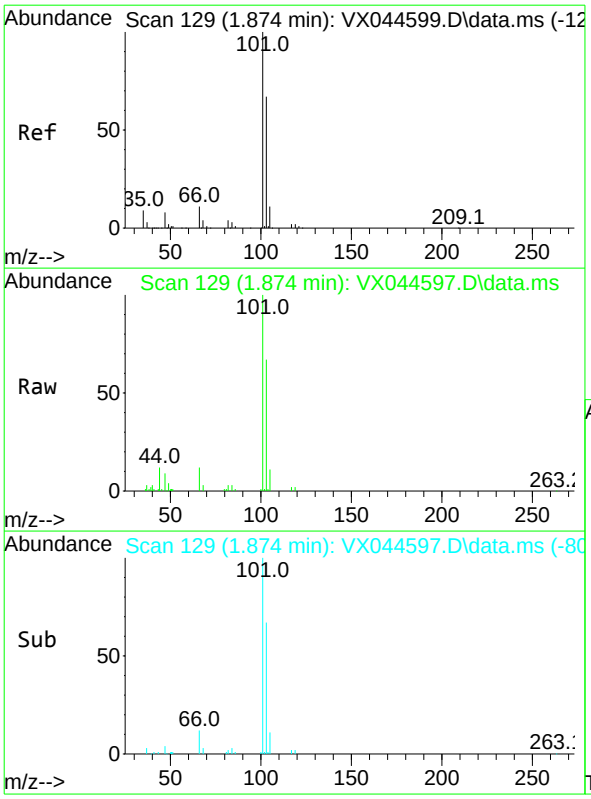


#6
Chloroethane
Concen: 5.160 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 64 Resp: 6970

Ion	Ratio	Lower	Upper
64	100		
66	27.8	27.3	40.9

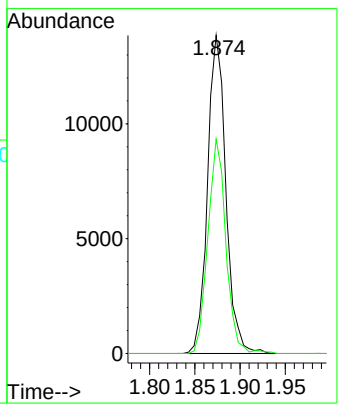




#7
Trichlorofluoromethane
Concen: 5.151 ug/l
RT: 1.874 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion:101 Resp: 19516

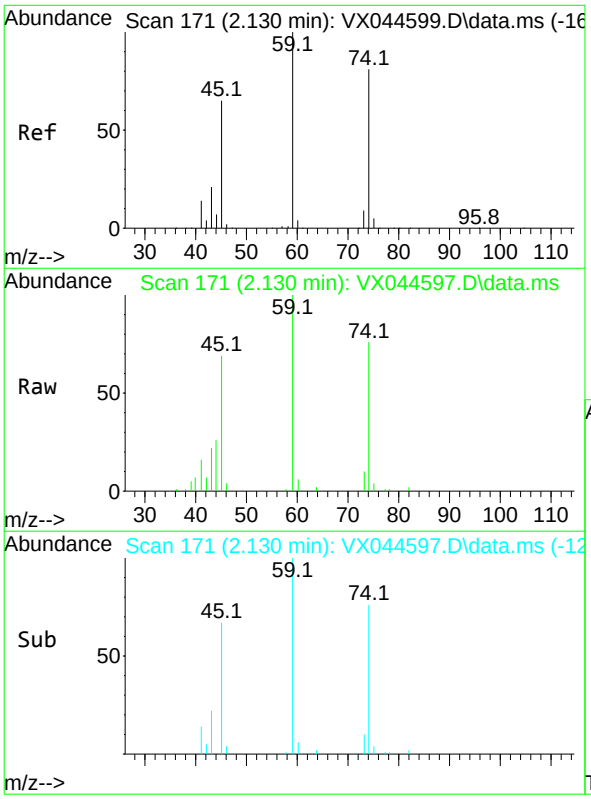
Ion	Ratio	Lower	Upper
101	100		
103	67.4	53.3	79.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

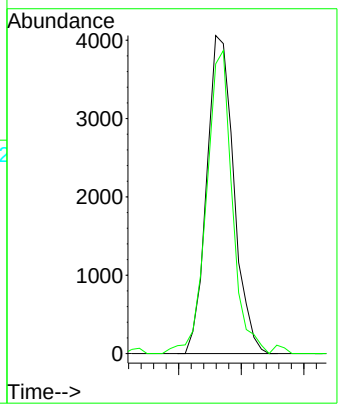
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

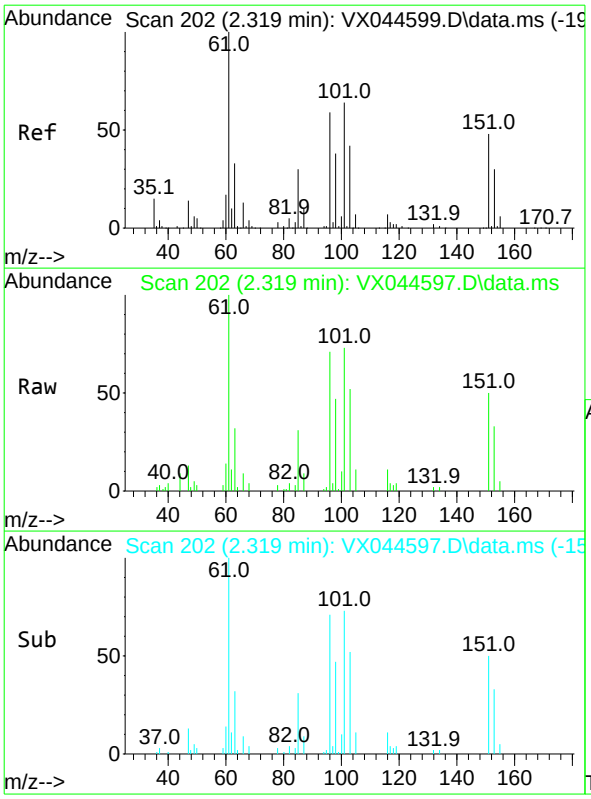


#8
Diethyl Ether
Concen: 4.556 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 74 Resp: 6099

Ion	Ratio	Lower	Upper
74	100		
45	90.3	41.7	125.1

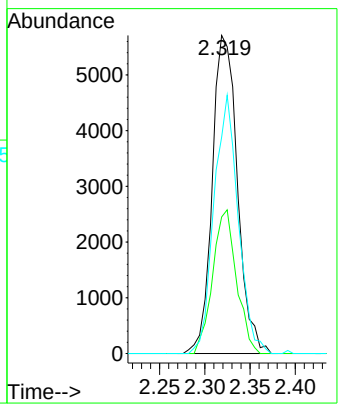




#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.077 ug/l
RT: 2.319 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion:101 Resp: 11029

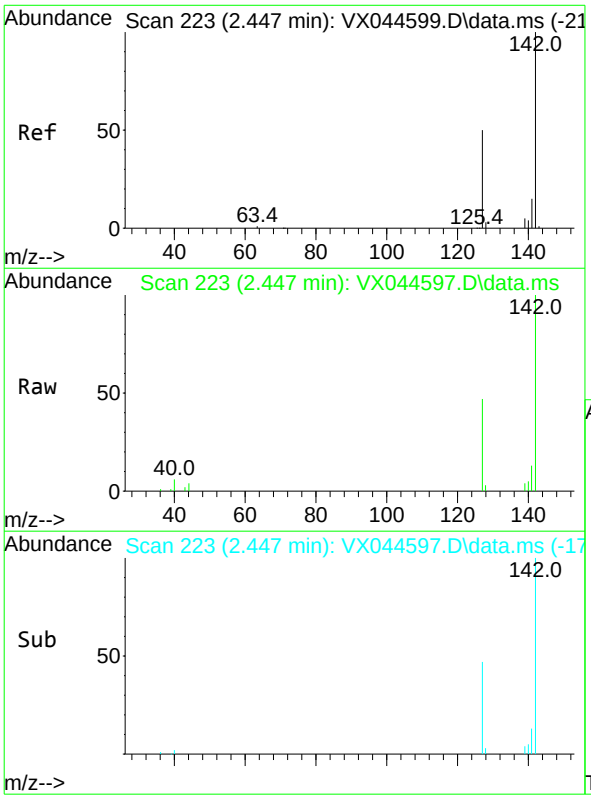
Ion	Ratio	Lower	Upper
101	100		
85	42.9	36.5	54.7
151	78.3	58.6	87.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

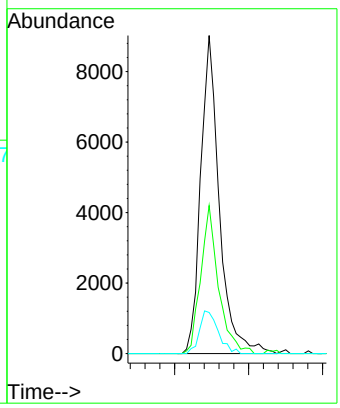
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

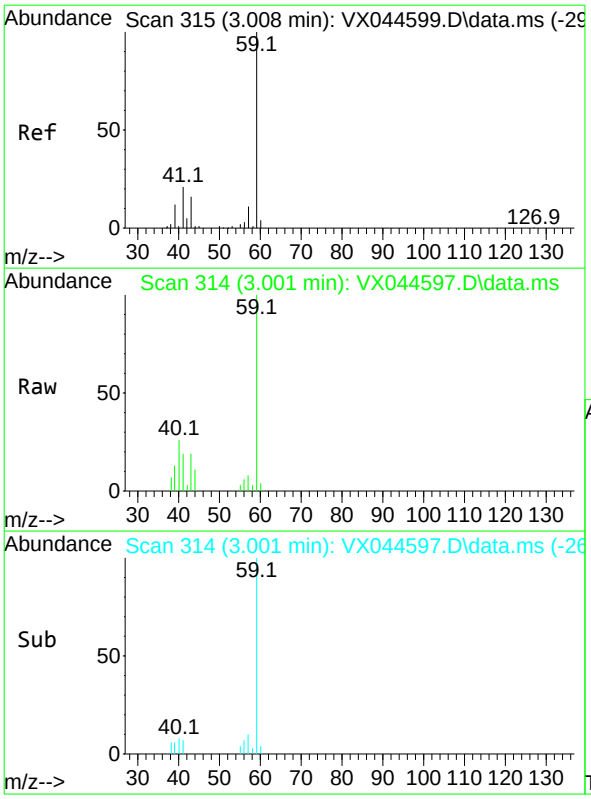


#10
Methyl Iodide
Concen: 5.210 ug/l
RT: 2.447 min Scan# 223
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion:142 Resp: 15781

Ion	Ratio	Lower	Upper
142	100		
127	44.4	41.9	62.9
141	13.5	11.8	17.6

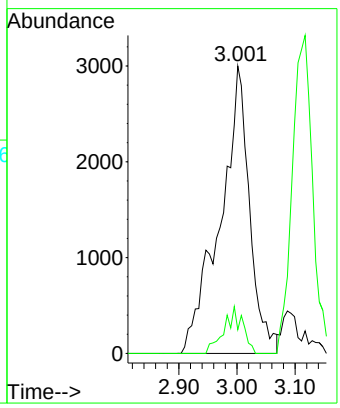




#11
Tert butyl alcohol
Concen: 28.381 ug/l
RT: 3.001 min Scan# 31
Delta R.T. -0.006 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 59 Resp: 10600

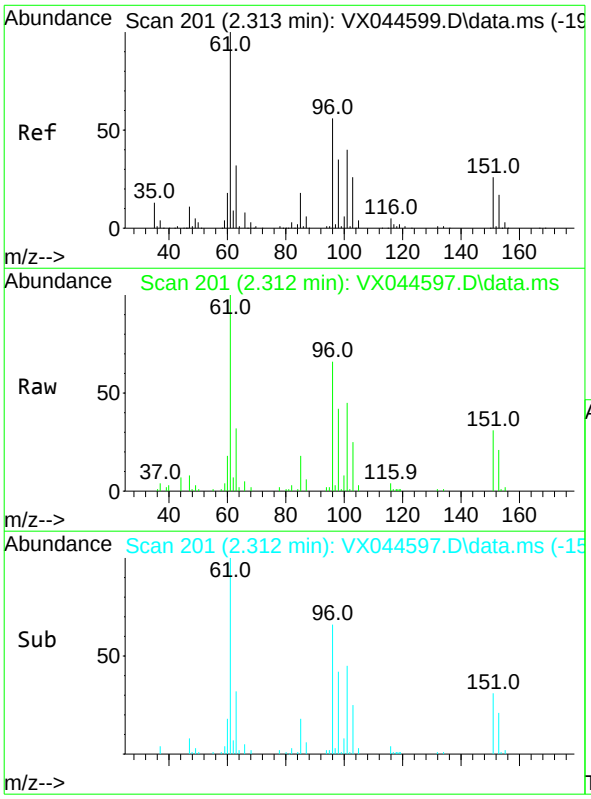
Ion	Ratio	Lower	Upper
59	100		
57	10.2	8.6	12.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

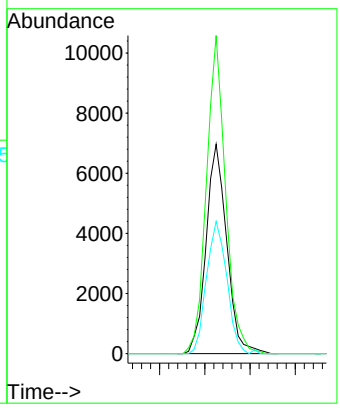
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

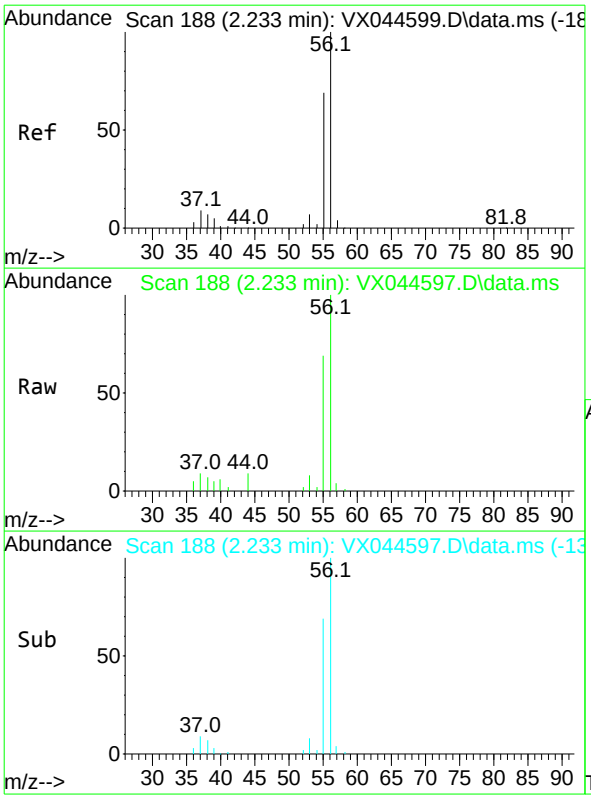


#12
1,1-Dichloroethene
Concen: 5.249 ug/l
RT: 2.312 min Scan# 201
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 96 Resp: 11046

Ion	Ratio	Lower	Upper
96	100		
61	152.0	143.3	214.9
98	63.2	50.6	76.0

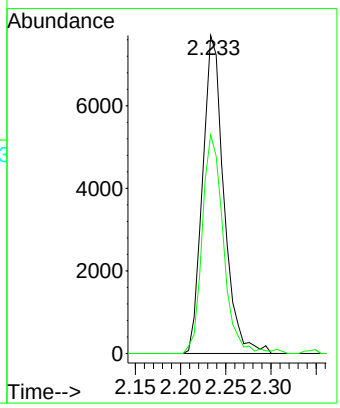




#13
Acrolein
Concen: 25.426 ug/l
RT: 2.233 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 56 Resp: 12556

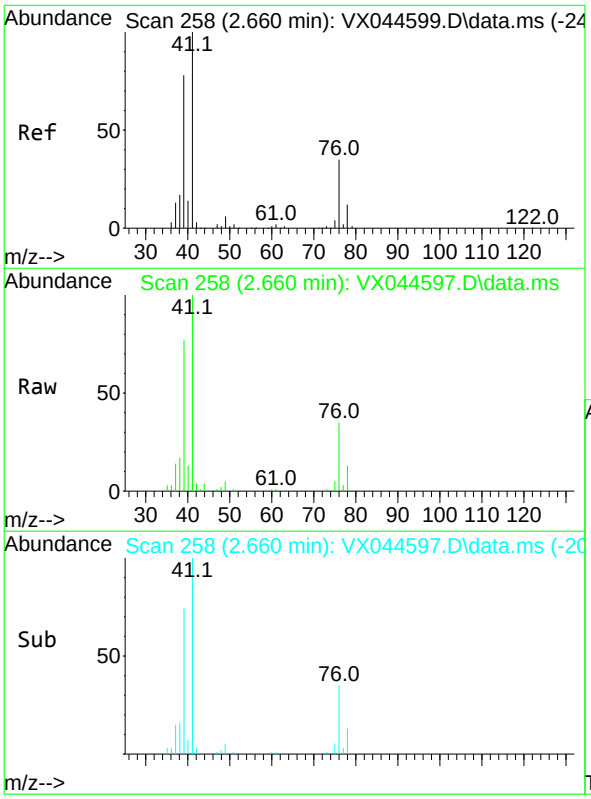
Ion	Ratio	Lower	Upper
56	100		
55	68.7	55.8	83.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

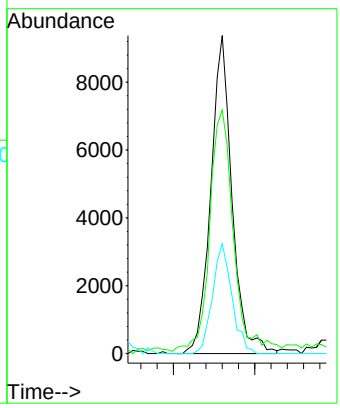
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

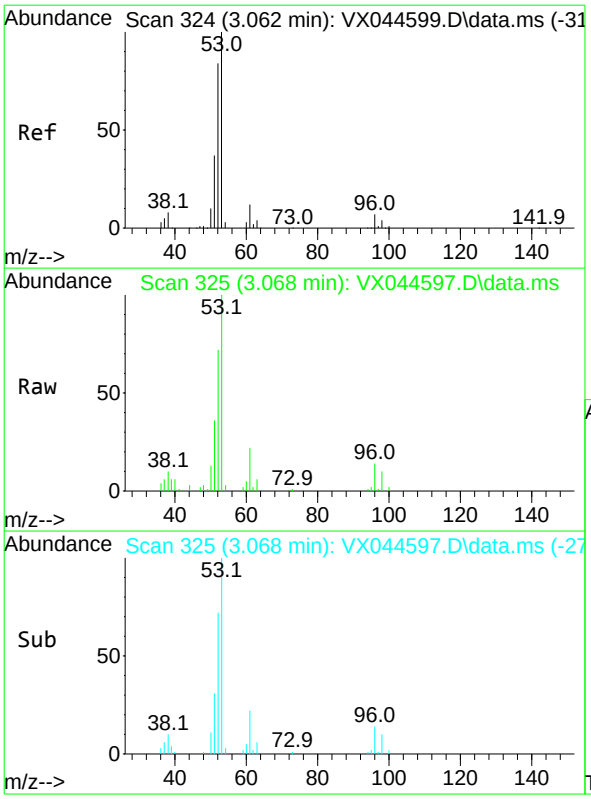


#14
Allyl chloride
Concen: 4.858 ug/l
RT: 2.660 min Scan# 258
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 41 Resp: 17002

Ion	Ratio	Lower	Upper
41	100		
39	83.9	60.2	90.2
76	31.5	25.9	38.9

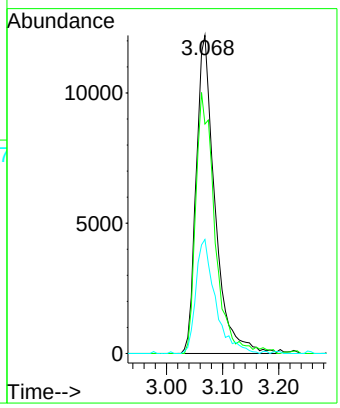




#15
Acrylonitrile
Concen: 26.307 ug/l
RT: 3.068 min Scan# 32
Delta R.T. 0.006 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 53 Resp: 28298

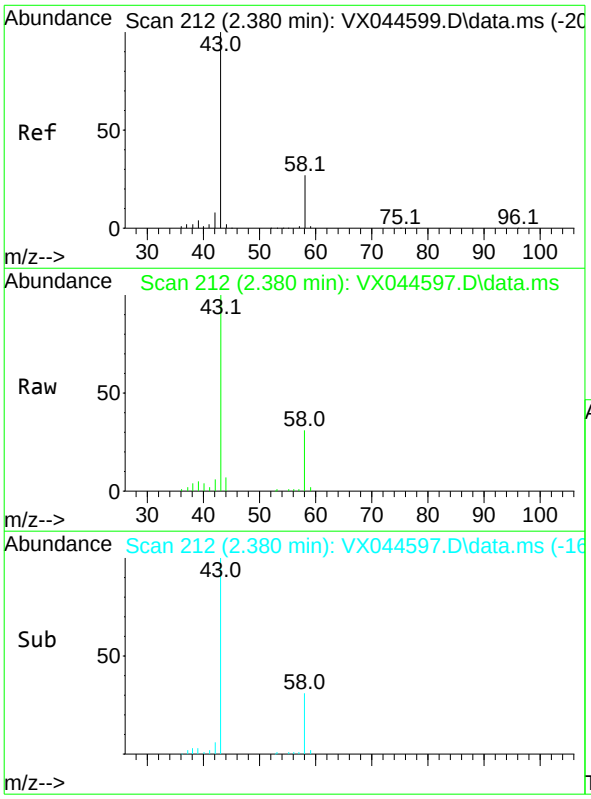
Ion	Ratio	Lower	Upper
53	100		
52	83.6	67.0	100.6
51	37.4	29.4	44.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

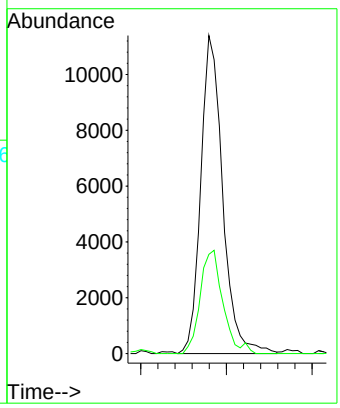
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

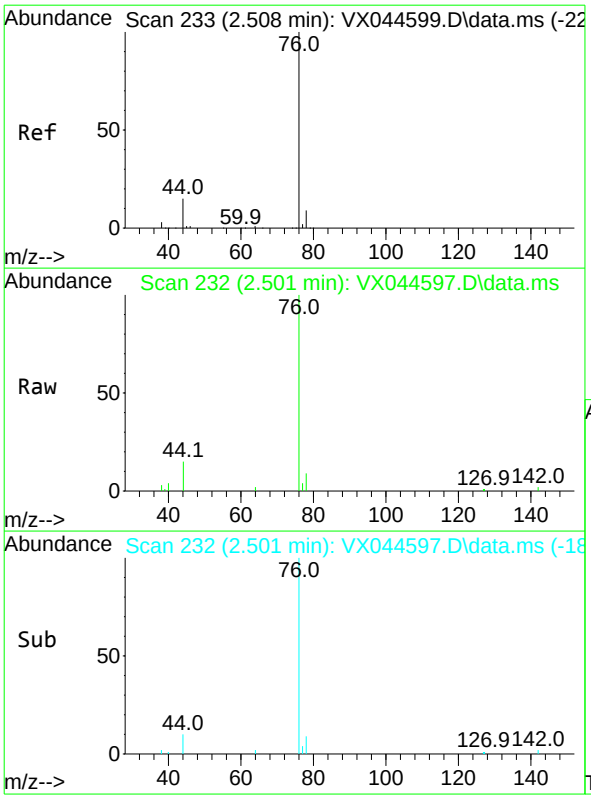


#16
Acetone
Concen: 21.165 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 43 Resp: 20234

Ion	Ratio	Lower	Upper
43	100		
58	31.2	22.0	33.0

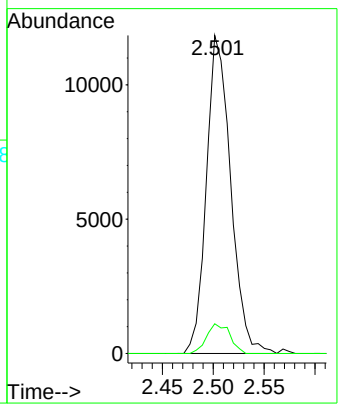




#17
Carbon Disulfide
Concen: 4.517 ug/l
RT: 2.501 min Scan# 23
Delta R.T. -0.006 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 76 Resp: 19658

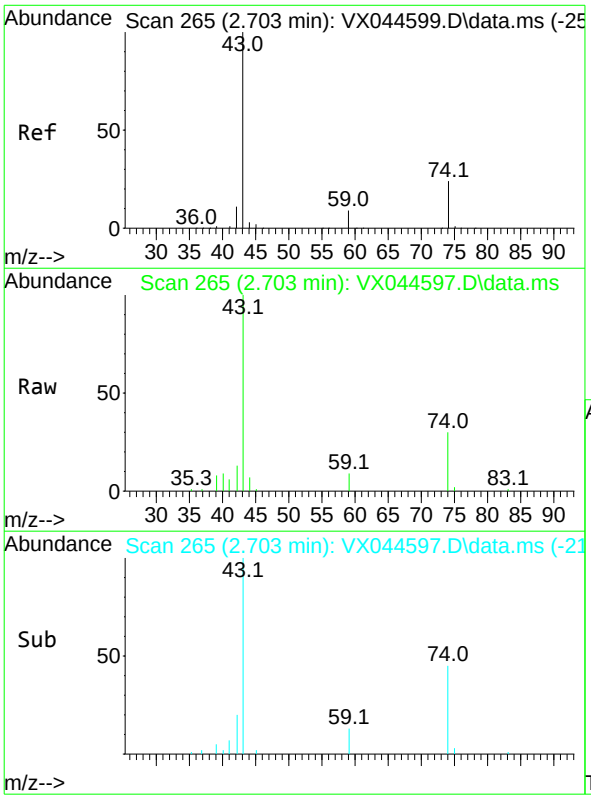
Ion	Ratio	Lower	Upper
76	100		
78	9.3	7.1	10.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

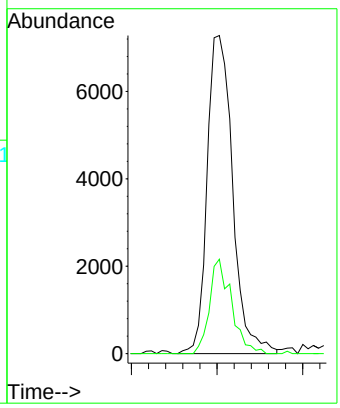
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

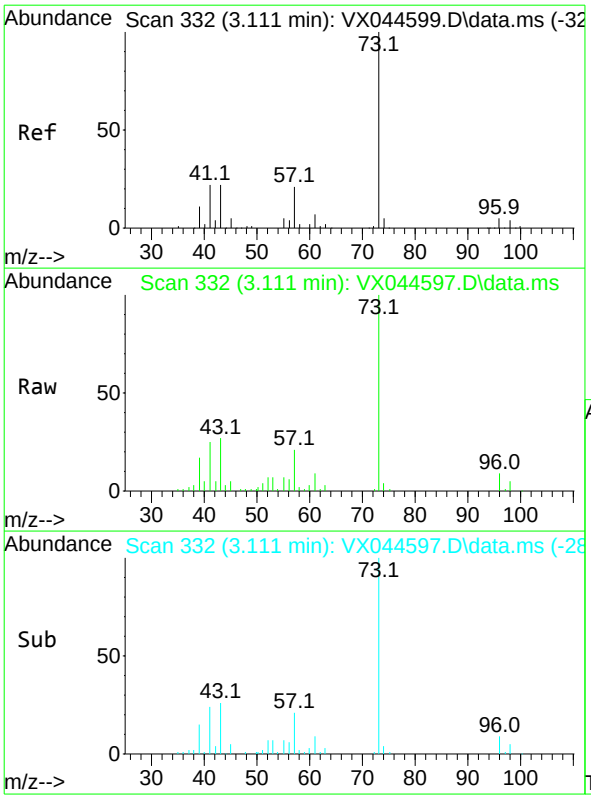


#18
Methyl Acetate
Concen: 5.325 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 43 Resp: 15024

Ion	Ratio	Lower	Upper
43	100		
74	25.6	19.3	28.9

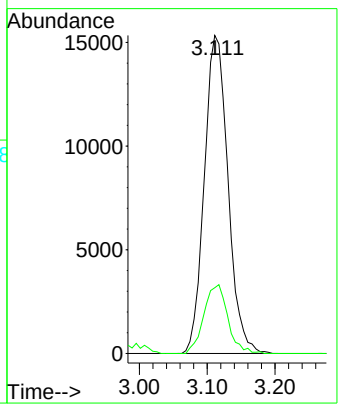




#19
Methyl tert-butyl Ether
Concen: 5.162 ug/l
RT: 3.111 min Scan# 33
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 73 Resp: 37226

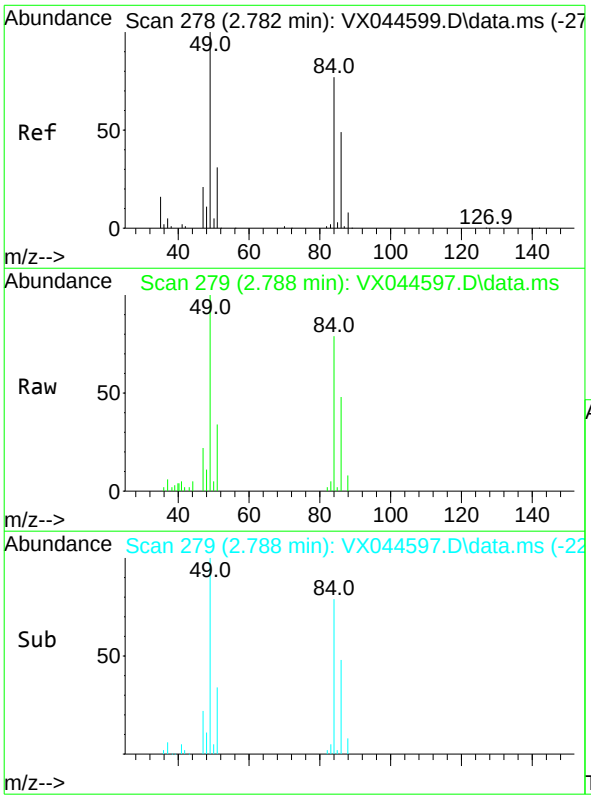
Ion	Ratio	Lower	Upper
73	100		
57	20.7	17.0	25.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

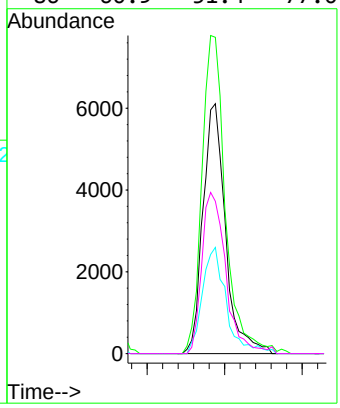
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

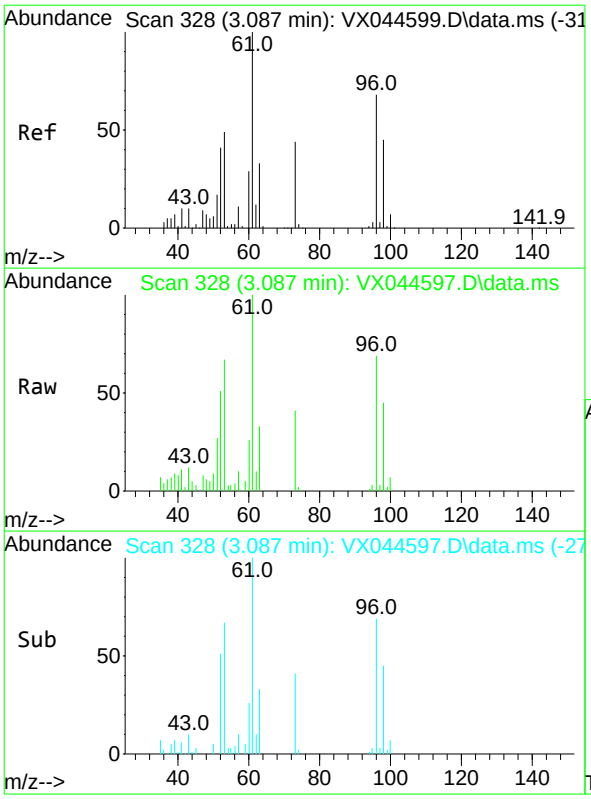


#20
Methylene Chloride
Concen: 5.066 ug/l
RT: 2.788 min Scan# 279
Delta R.T. 0.006 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 84 Resp: 12356

Ion	Ratio	Lower	Upper
84	100		
49	126.6	104.4	156.6
51	42.5	32.0	48.0
86	60.9	51.4	77.0

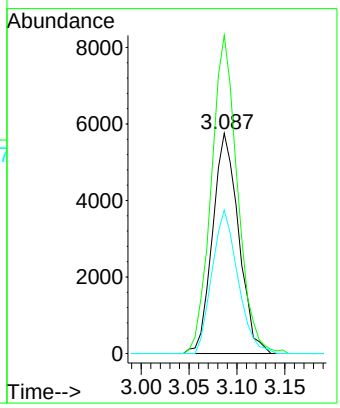




#21
trans-1,2-Dichloroethene
Concen: 5.045 ug/l
RT: 3.087 min Scan# 32
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 96 Resp: 10897

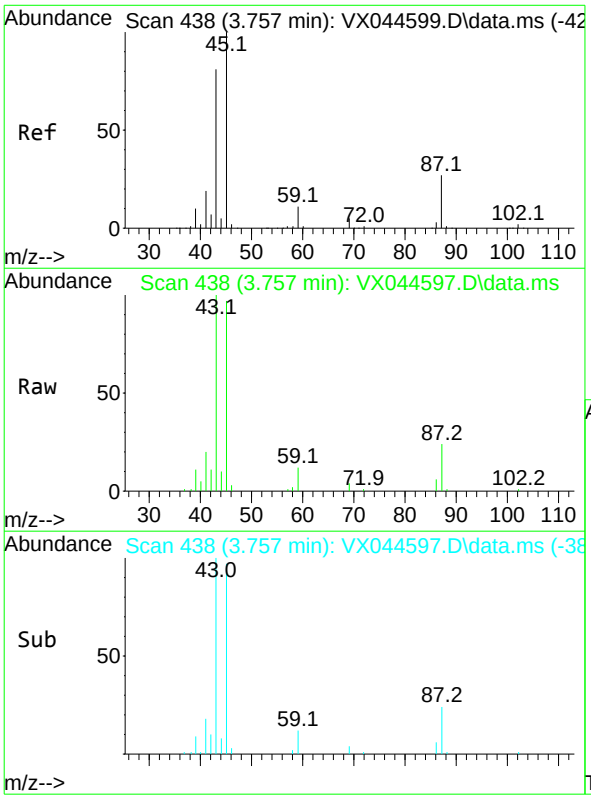
Ion	Ratio	Lower	Upper
96	100		
61	144.4	118.5	177.7
98	65.1	53.4	80.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

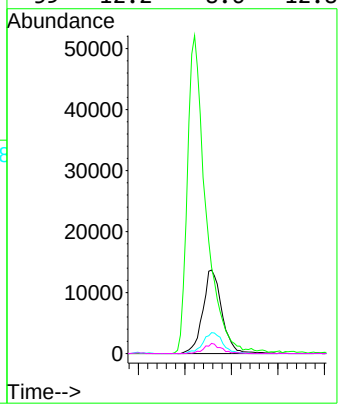
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

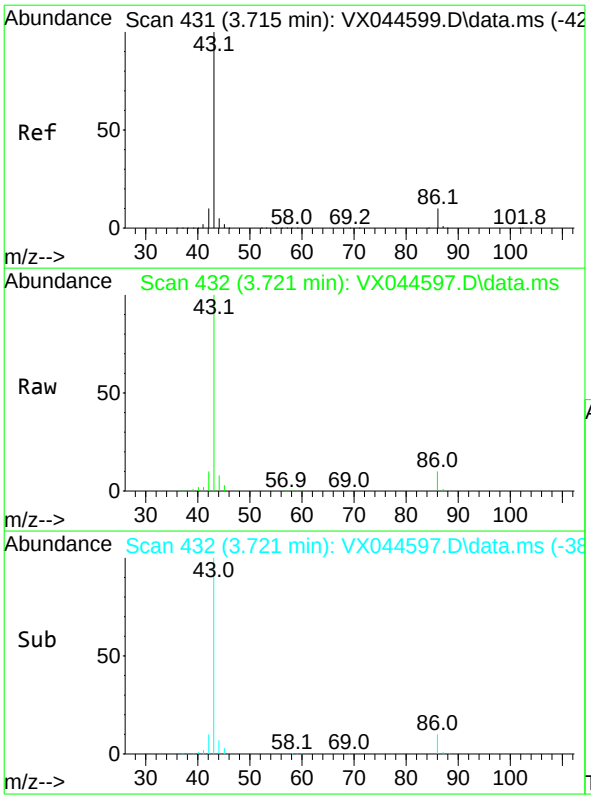


#22
Diisopropyl ether
Concen: 5.449 ug/l
RT: 3.757 min Scan# 438
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 45 Resp: 39202

Ion	Ratio	Lower	Upper
45	100		
43	100.8	64.6	97.0#
87	25.0	21.8	32.8
59	12.2	8.6	12.8

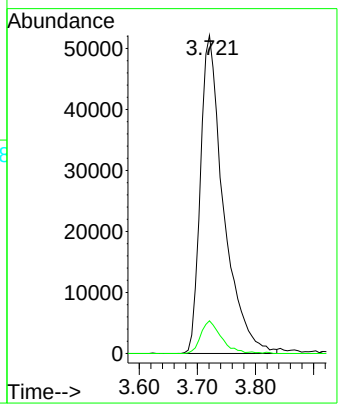




#23
Vinyl Acetate
Concen: 24.790 ug/l
RT: 3.721 min Scan# 43
Delta R.T. 0.006 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 43 Resp: 144231

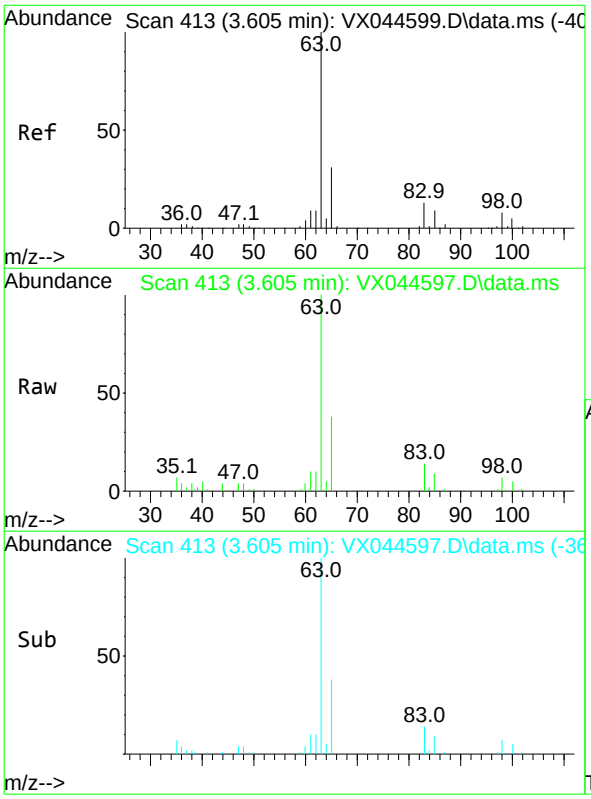
Ion	Ratio	Lower	Upper
43	100		
86	10.3	8.1	12.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

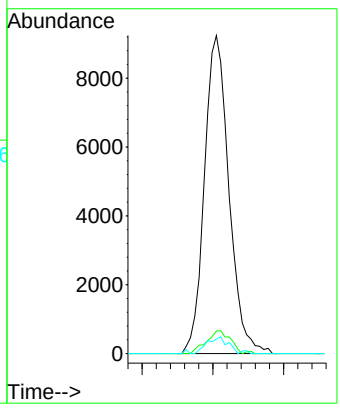
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

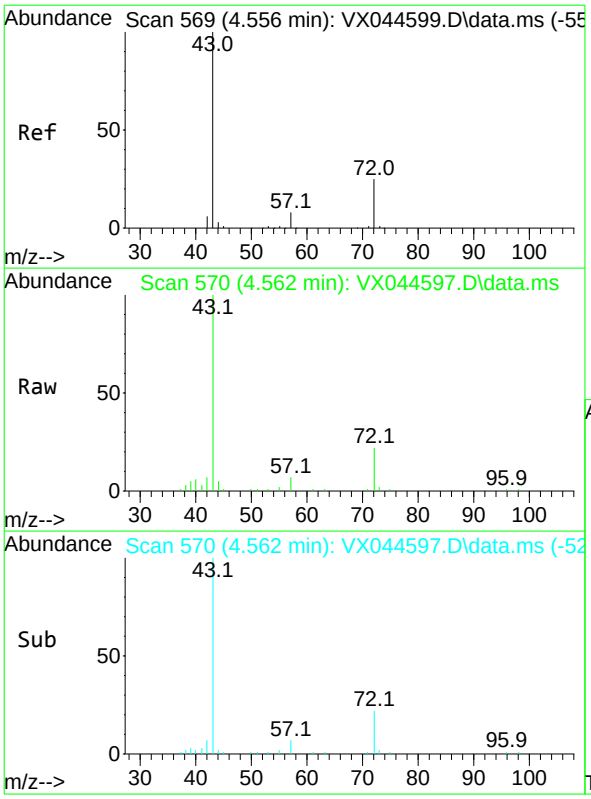


#24
1,1-Dichloroethane
Concen: 5.297 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 63 Resp: 22208

Ion	Ratio	Lower	Upper
63	100		
98	7.1	3.8	11.4
100	4.5	2.4	7.2

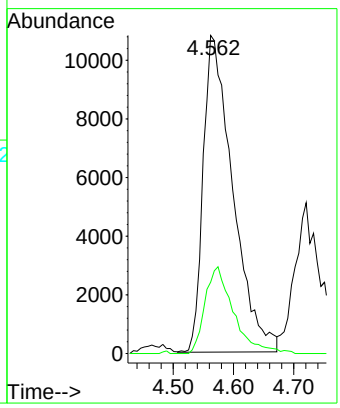




#25
2-Butanone
Concen: 26.760 ug/l
RT: 4.562 min Scan# 57
Delta R.T. 0.006 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 43 Resp: 36925

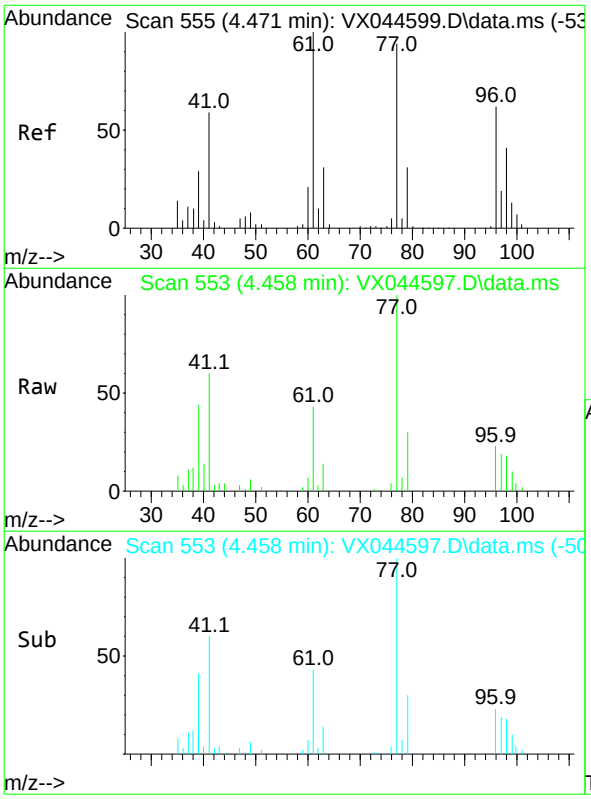
Ion	Ratio	Lower	Upper
43	100		
72	22.5	20.2	30.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

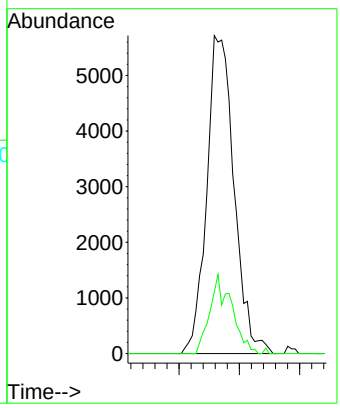
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

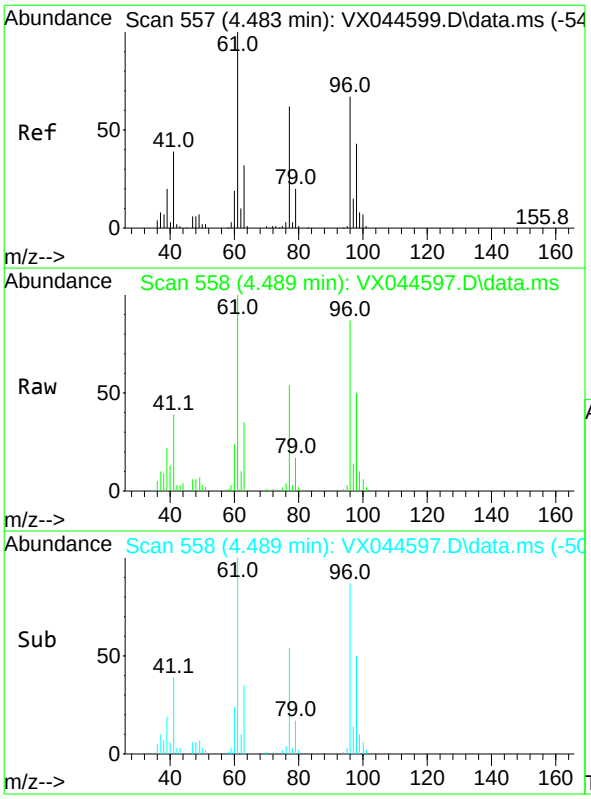


#26
2,2-Dichloropropane
Concen: 4.968 ug/l
RT: 4.458 min Scan# 553
Delta R.T. -0.012 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 77 Resp: 18007

Ion	Ratio	Lower	Upper
77	100		
97	20.0	10.7	32.1

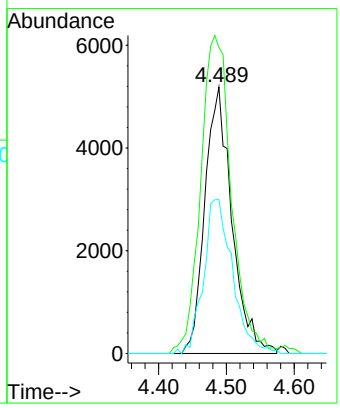




#27
cis-1,2-Dichloroethene
Concen: 5.451 ug/l
RT: 4.489 min Scan# 55
Delta R.T. 0.006 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 96 Resp: 14357

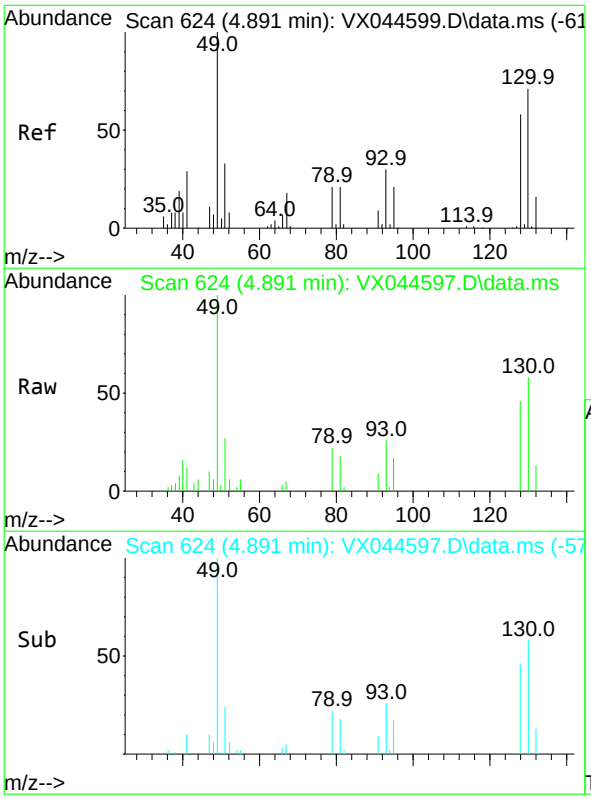
Ion	Ratio	Lower	Upper
96	100		
61	136.4	0.0	302.8
98	62.1	0.0	130.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

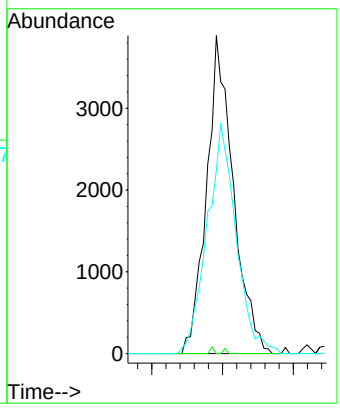
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

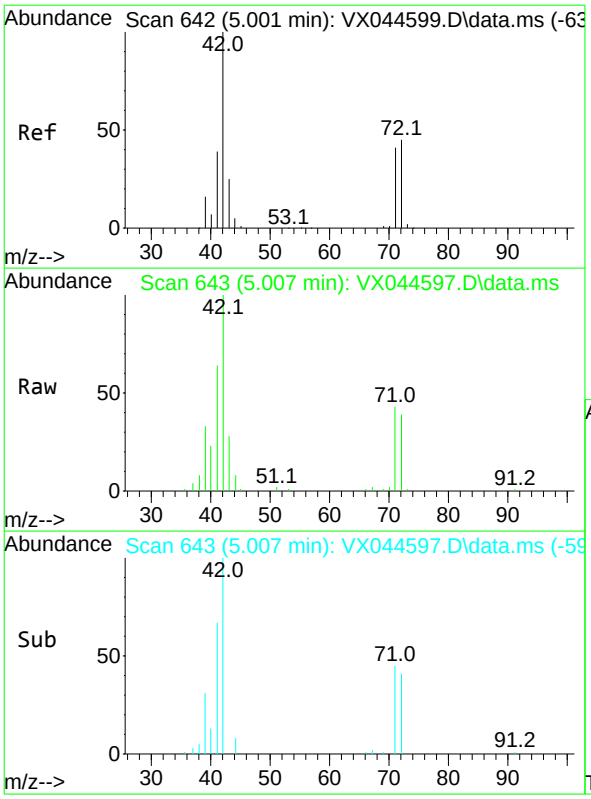


#28
Bromochloromethane
Concen: 5.222 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 49 Resp: 10190

Ion	Ratio	Lower	Upper
49	100		
129	0.3	0.0	4.2
130	0.0	58.8	88.2#

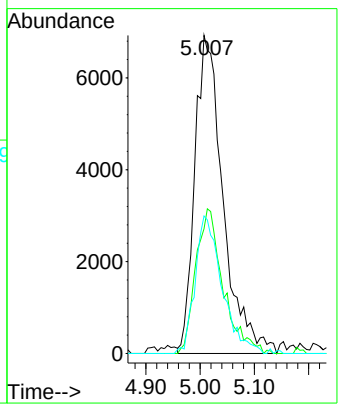




#29
Tetrahydrofuran
Concen: 26.583 ug/l
RT: 5.007 min Scan# 64
Delta R.T. 0.006 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 42 Resp: 25119

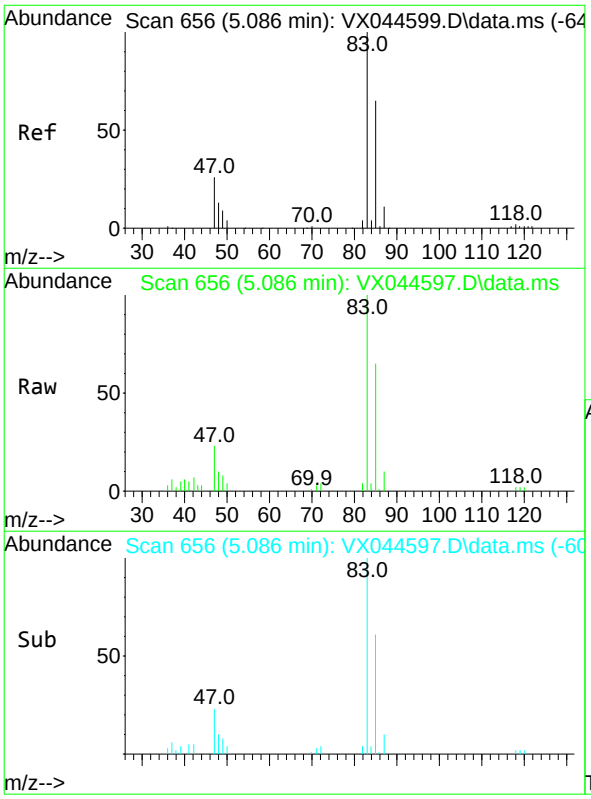
Ion	Ratio	Lower	Upper
42	100		
72	44.1	36.1	54.1
71	41.0	33.0	49.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

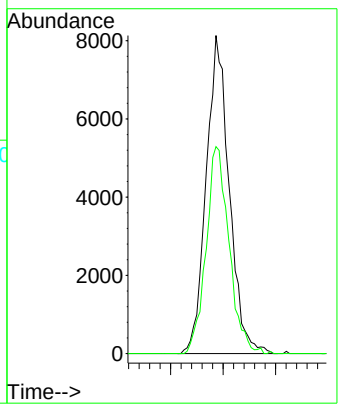
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

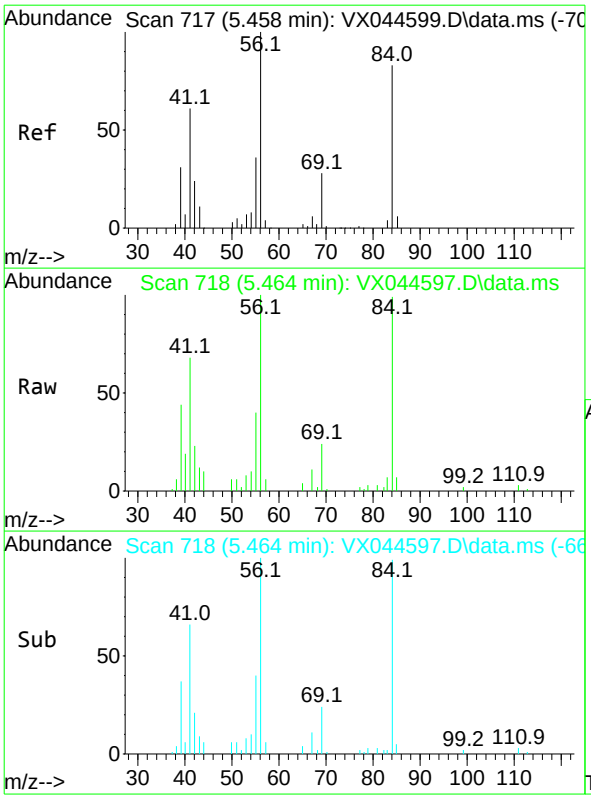


#30
Chloroform
Concen: 5.479 ug/l
RT: 5.086 min Scan# 656
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 83 Resp: 24763

Ion	Ratio	Lower	Upper
83	100		
85	65.1	52.3	78.5

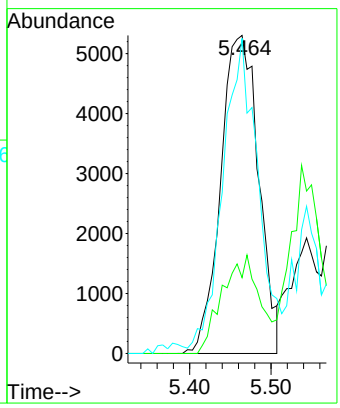




#31
Cyclohexane
Concen: 4.983 ug/l
RT: 5.464 min Scan# 71
Delta R.T. 0.006 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 56 Resp: 17152

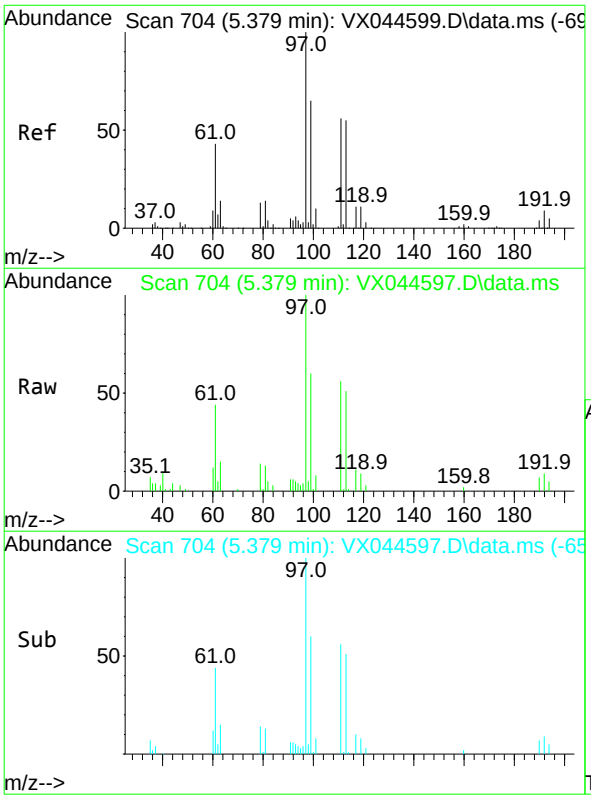
Ion	Ratio	Lower	Upper
56	100		
69	23.9	22.2	33.4
84	96.2	66.6	100.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

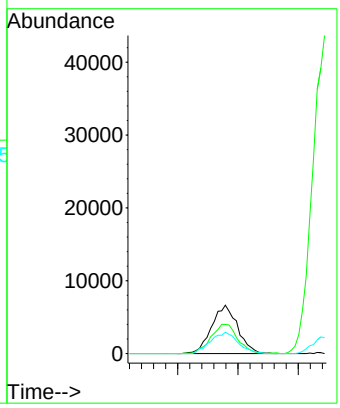
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

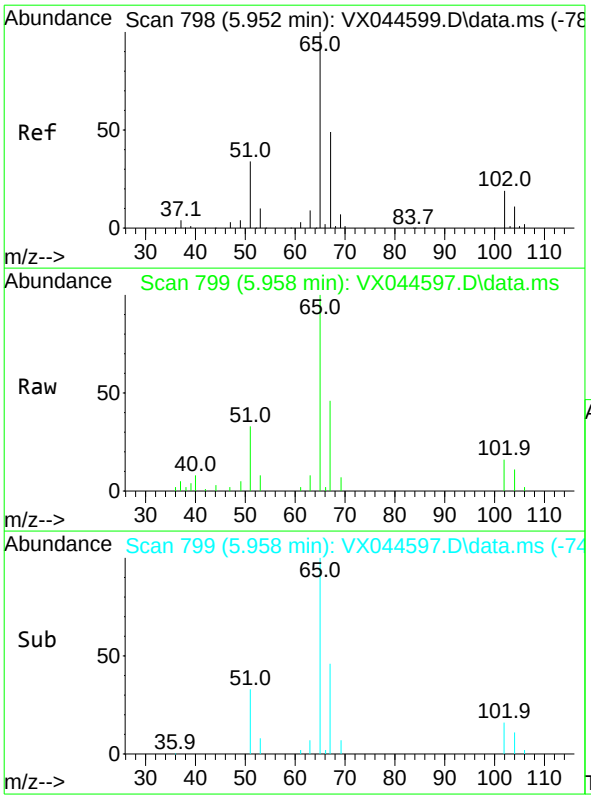


#32
1,1,1-Trichloroethane
Concen: 5.229 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 97 Resp: 19887

Ion	Ratio	Lower	Upper
97	100		
99	61.6	52.1	78.1
61	46.6	36.8	55.2

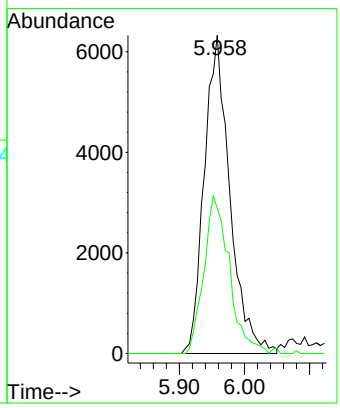




#33
1,2-Dichloroethane-d4
Concen: 5.699 ug/l
RT: 5.958 min Scan# 79
Delta R.T. 0.006 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 65 Resp: 17286

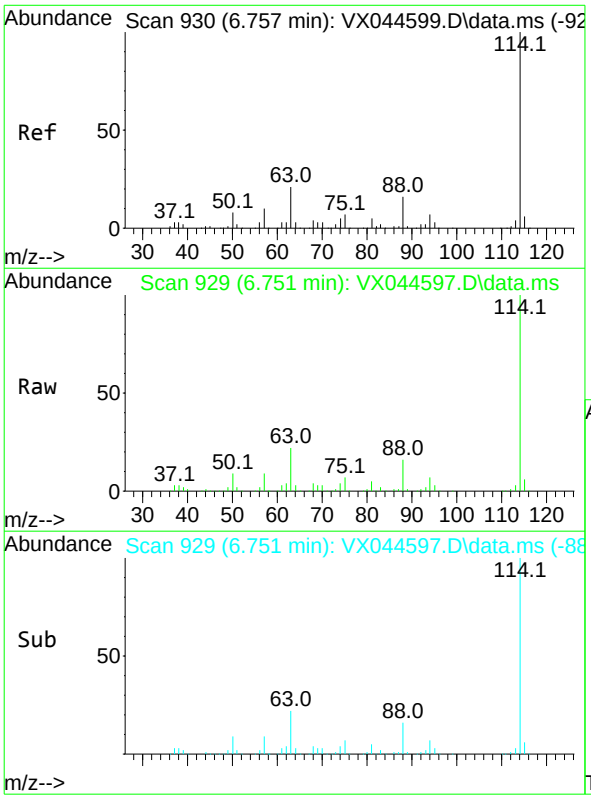
Ion	Ratio	Lower	Upper
65	100		
67	49.2	0.0	99.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

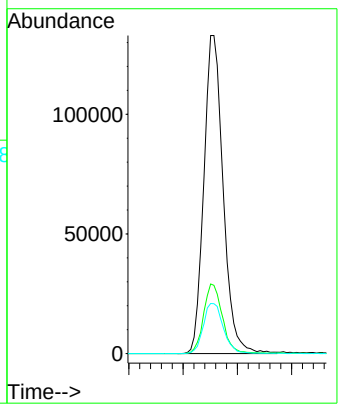
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

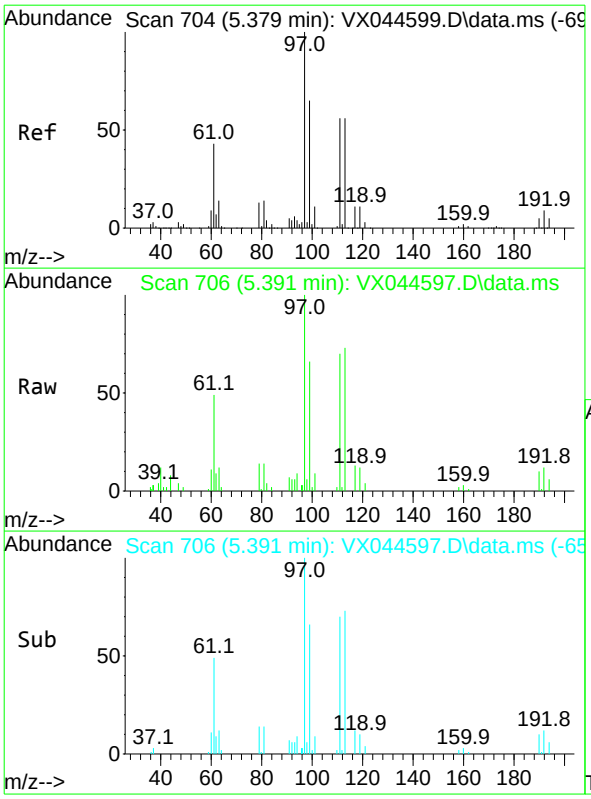


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. -0.006 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion:114 Resp: 328814

Ion	Ratio	Lower	Upper
114	100		
63	21.9	0.0	42.6
88	15.7	0.0	32.6

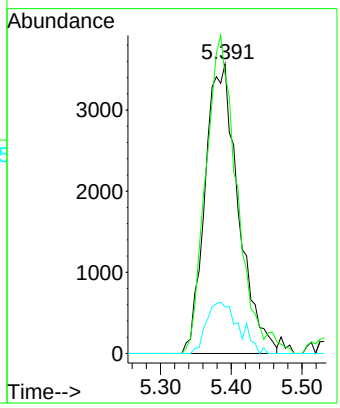




#35
Dibromofluoromethane
Concen: 5.166 ug/l
RT: 5.391 min Scan# 70
Delta R.T. 0.012 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion:113 Resp: 11648

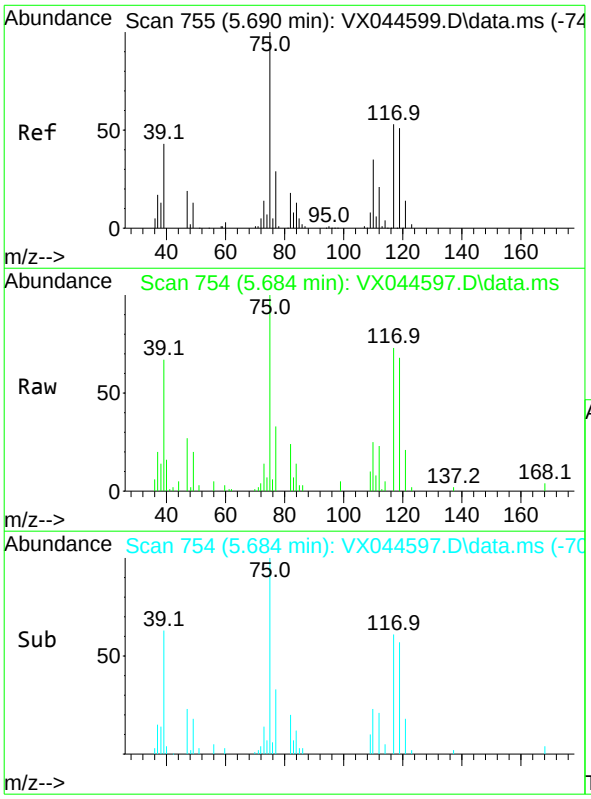
Ion	Ratio	Lower	Upper
113	100		
111	103.3	83.3	124.9
192	17.2	14.3	21.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

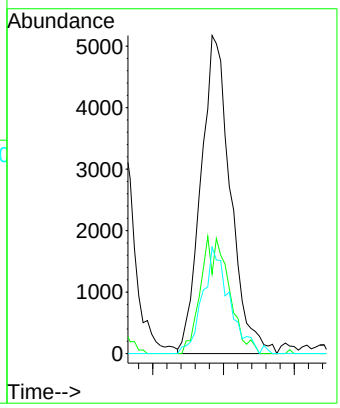
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

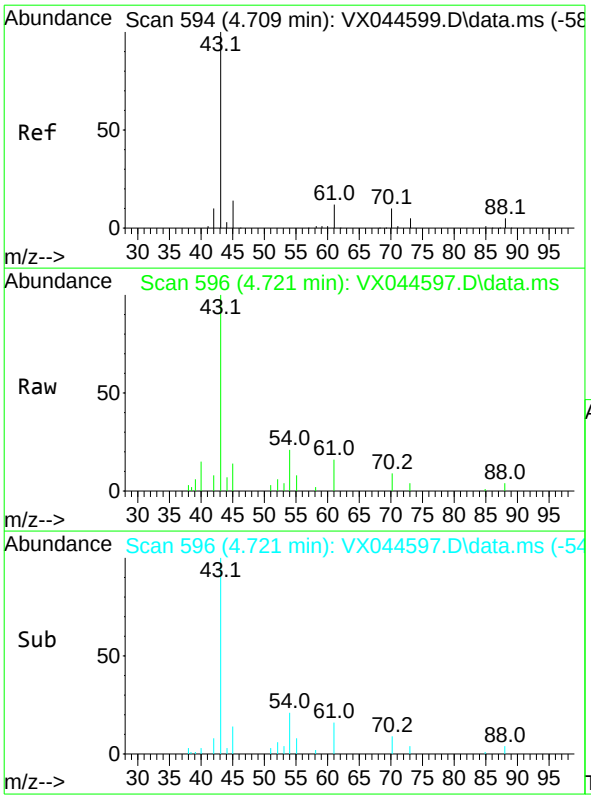


#36
1,1-Dichloropropene
Concen: 5.149 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 75 Resp: 15012

Ion	Ratio	Lower	Upper
75	100		
110	15.9	17.3	51.9#
77	30.1	24.7	37.1

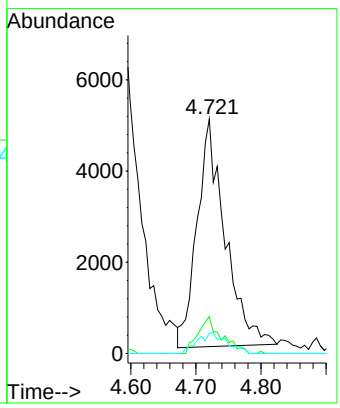




#37
Ethyl Acetate
Concen: 4.999 ug/l
RT: 4.721 min Scan# 59
Delta R.T. 0.012 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 43 Resp: 14899

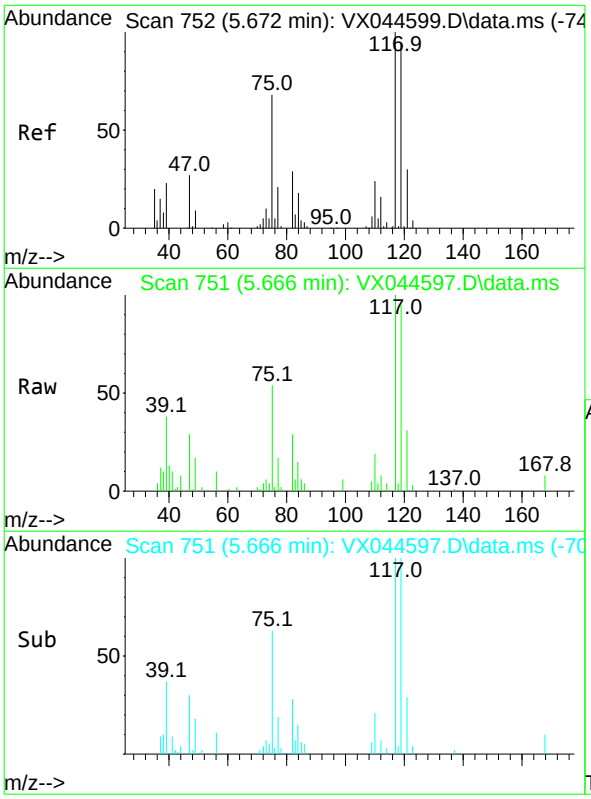
Ion	Ratio	Lower	Upper
43	100		
61	13.3	9.9	14.9
70	9.7	8.0	12.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

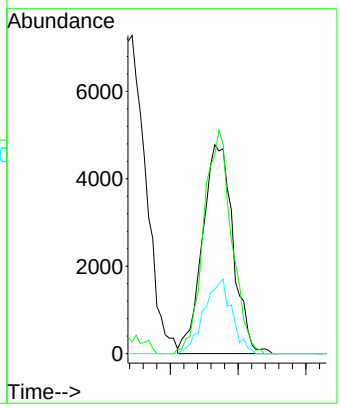
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

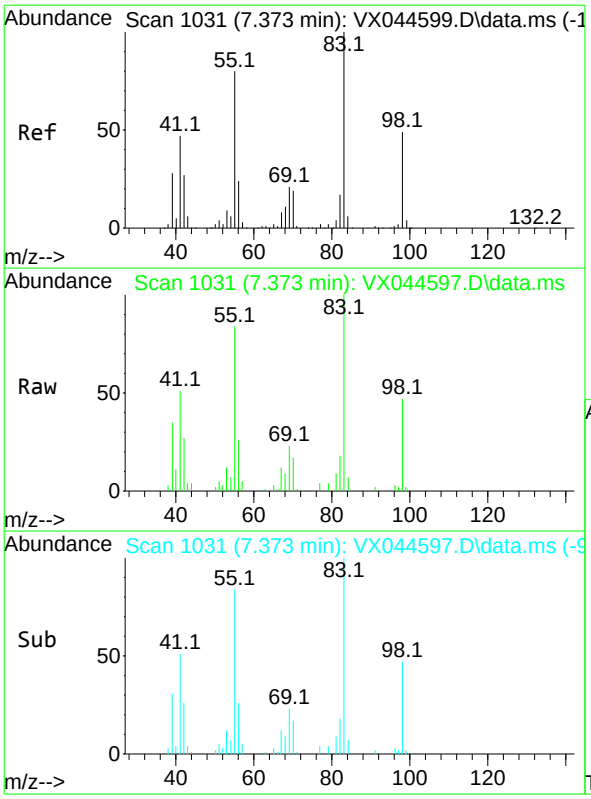


#38
Carbon Tetrachloride
Concen: 4.641 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion:117 Resp: 15014

Ion	Ratio	Lower	Upper
117	100		
119	95.1	74.5	111.7
121	30.7	24.1	36.1

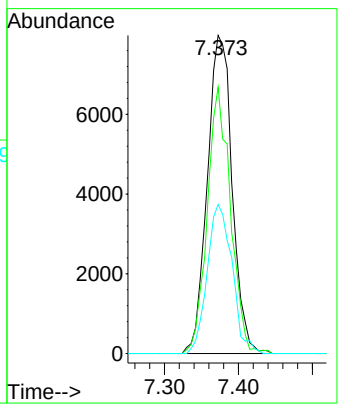




#39
Methylcyclohexane
Concen: 5.007 ug/l
RT: 7.373 min Scan# 10
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 83 Resp: 18627

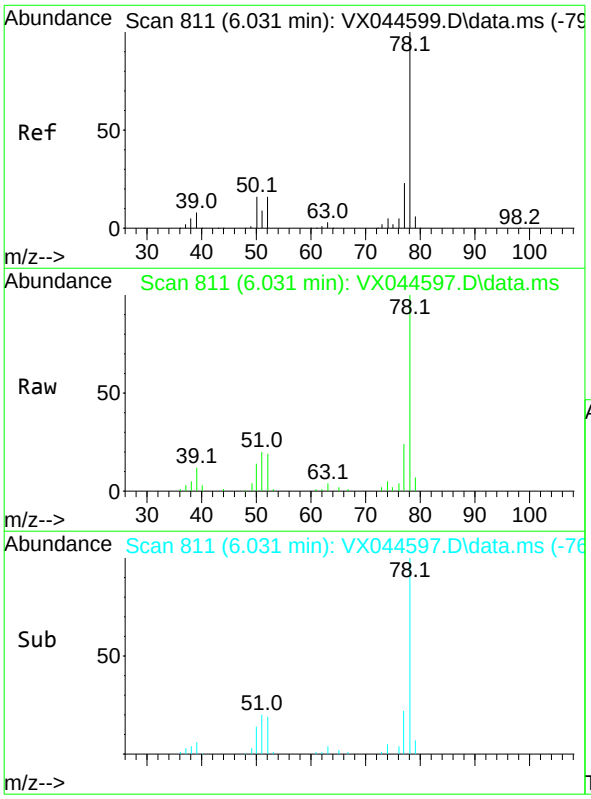
Ion	Ratio	Lower	Upper
83	100		
55	83.7	64.1	96.1
98	46.8	38.9	58.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

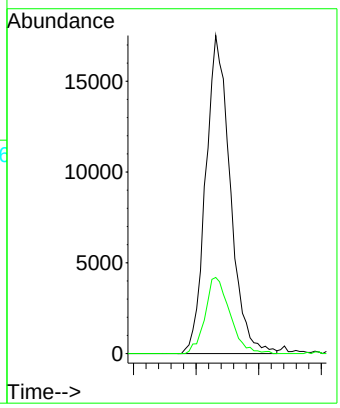
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

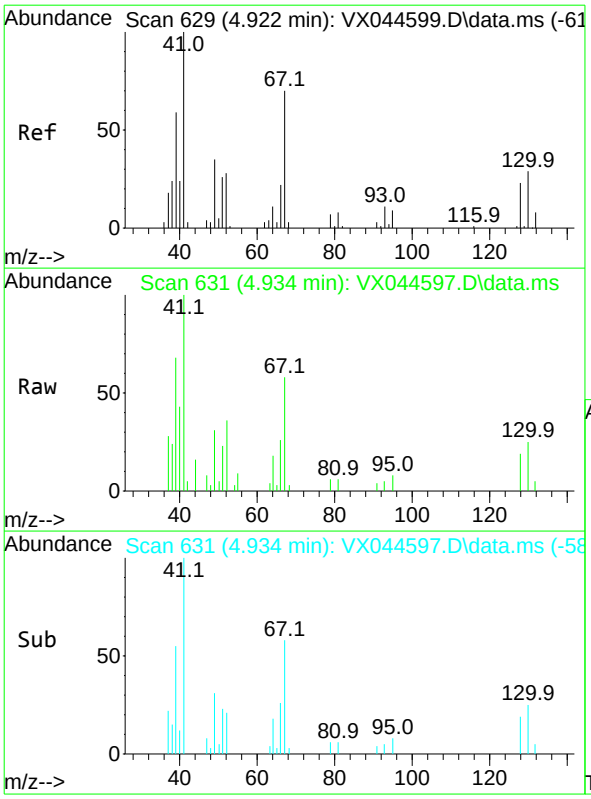


#40
Benzene
Concen: 5.191 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 78 Resp: 47650

Ion	Ratio	Lower	Upper
78	100		
77	23.9	18.8	28.2

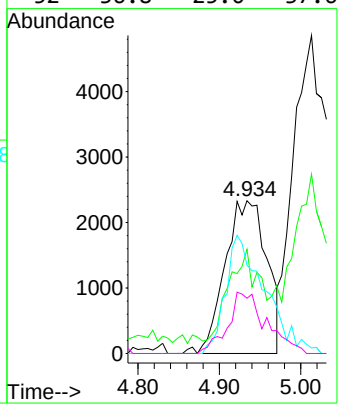




#41
Methacrylonitrile
Concen: 5.209 ug/l
RT: 4.934 min Scan# 63
Delta R.T. 0.012 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 41 Resp: 8340

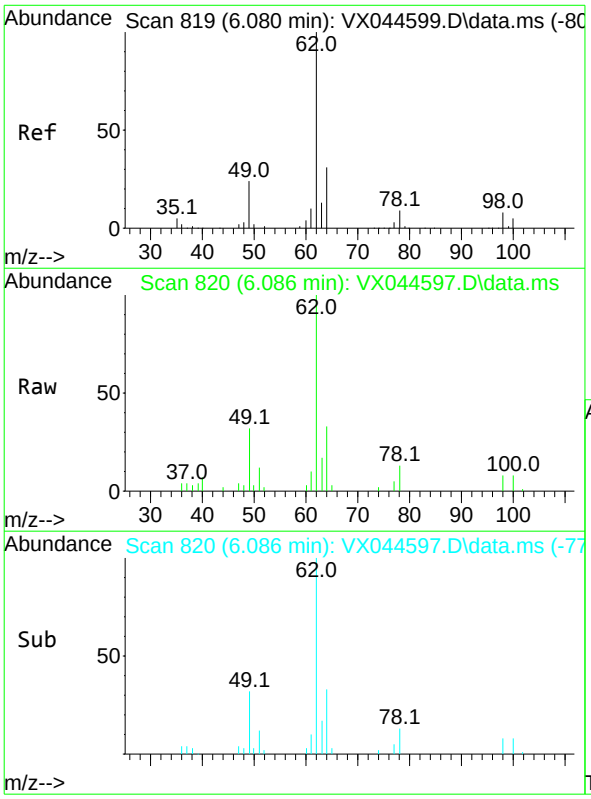
Ion	Ratio	Lower	Upper
41	100		
39	46.3	47.0	70.4#
67	72.9	57.4	86.2
52	36.8	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

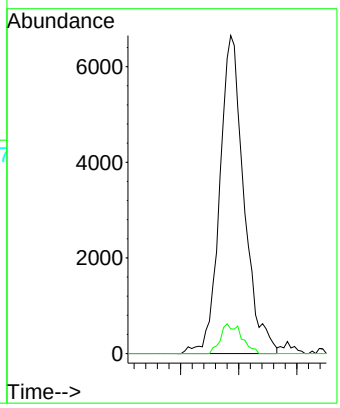
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

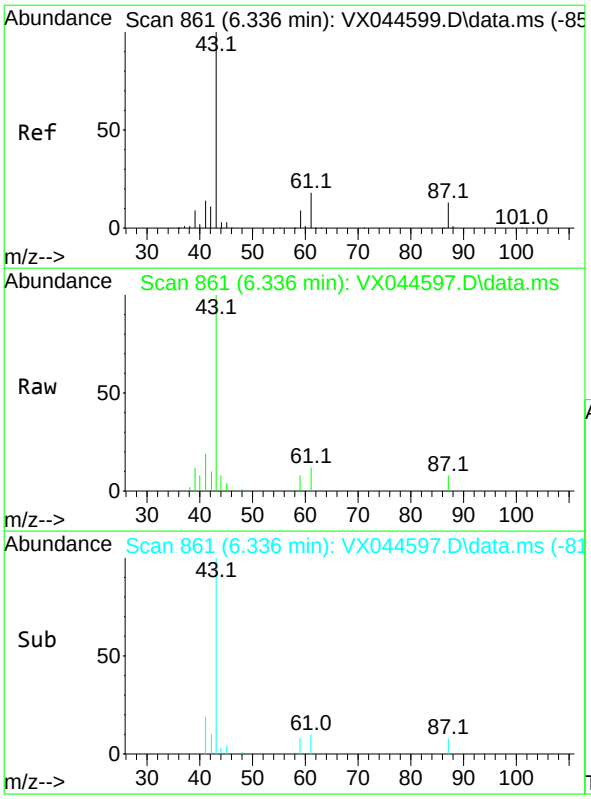


#42
1,2-Dichloroethane
Concen: 5.371 ug/l
RT: 6.086 min Scan# 820
Delta R.T. 0.006 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 62 Resp: 19283

Ion	Ratio	Lower	Upper
62	100		
98	8.1	0.0	15.8





#43
Isopropyl Acetate
Concen: 5.075 ug/l
RT: 6.336 min Scan# 86
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

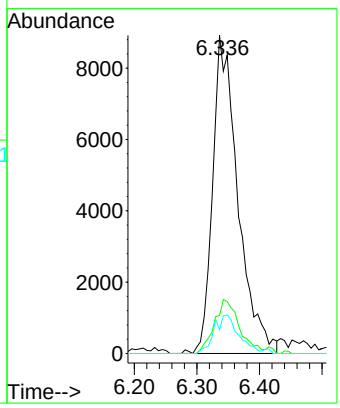
Tgt Ion: 43 Resp: 24971

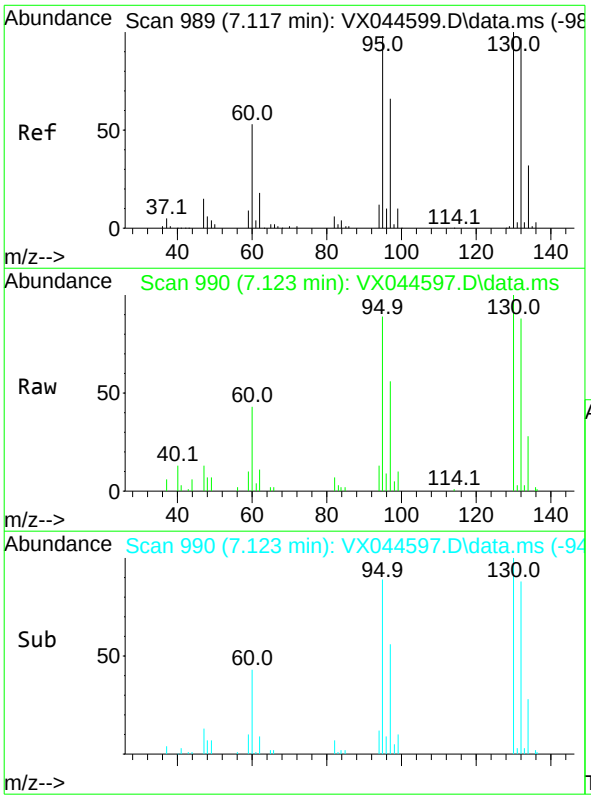
Ion	Ratio	Lower	Upper
43	100		
61	17.0	14.5	21.7
87	11.7	10.1	15.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

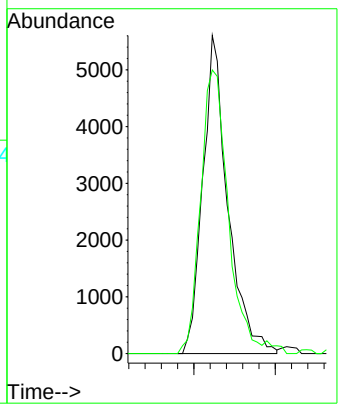


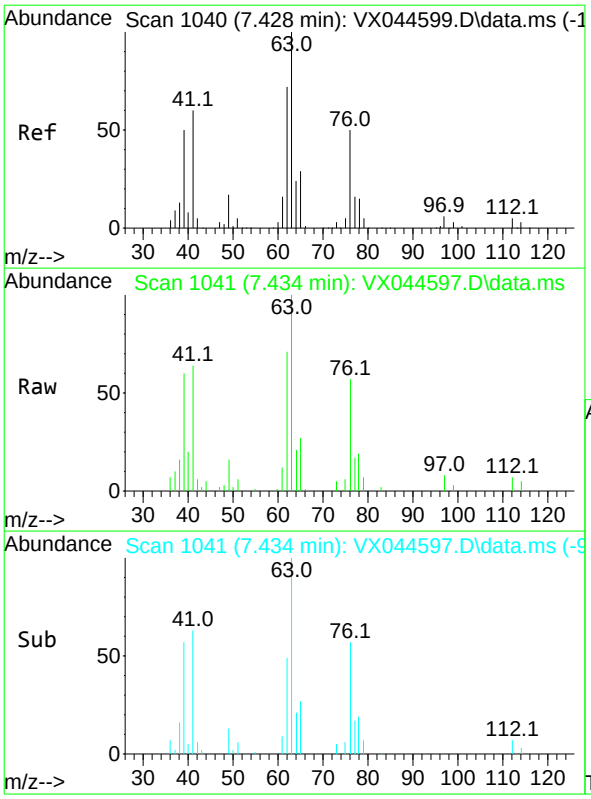


#44
Trichloroethene
Concen: 5.099 ug/l
RT: 7.123 min Scan# 990
Delta R.T. 0.006 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion:130 Resp: 11966

Ion	Ratio	Lower	Upper
130	100		
95	89.2	0.0	195.6

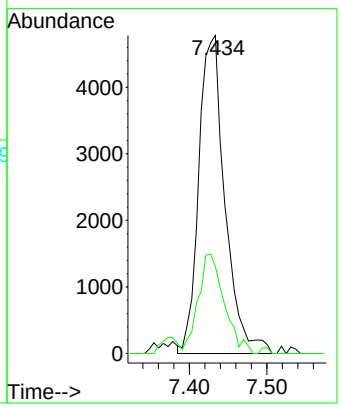




#45
1,2-Dichloropropane
Concen: 4.997 ug/l
RT: 7.434 min Scan# 10
Delta R.T. 0.006 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 63 Resp: 11185

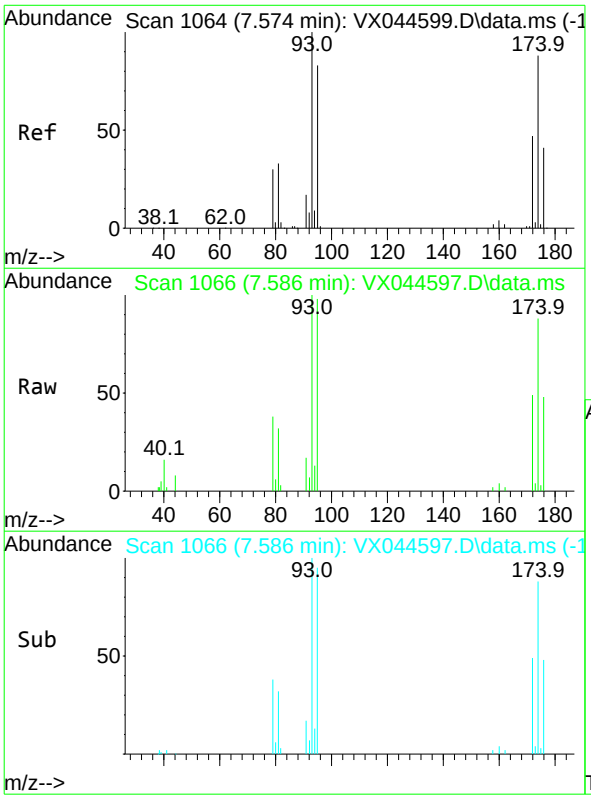
Ion	Ratio	Lower	Upper
63	100		
65	27.4	23.0	34.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

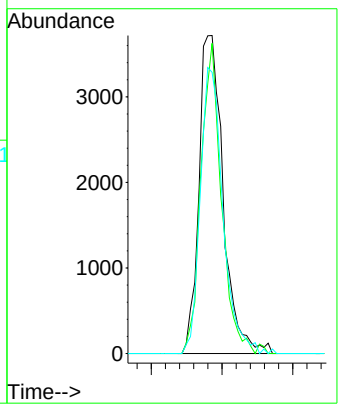
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

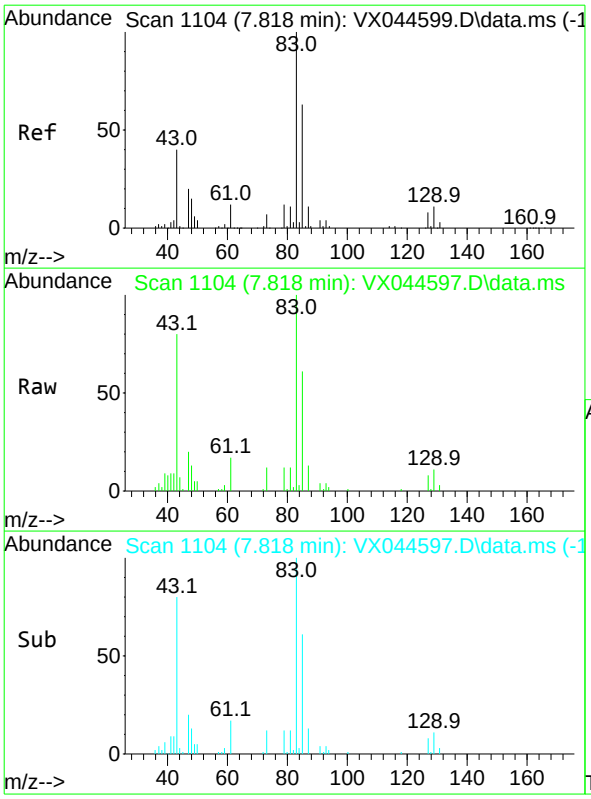


#46
Dibromomethane
Concen: 5.071 ug/l
RT: 7.586 min Scan# 1066
Delta R.T. 0.012 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 93 Resp: 8827

Ion	Ratio	Lower	Upper
93	100		
95	82.7	65.8	98.6
174	84.5	73.4	110.0

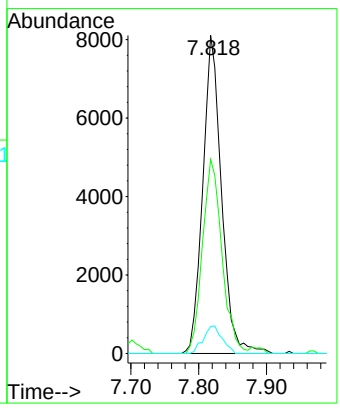




#47
Bromodichloromethane
Concen: 4.901 ug/l
RT: 7.818 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 83 Resp: 15524

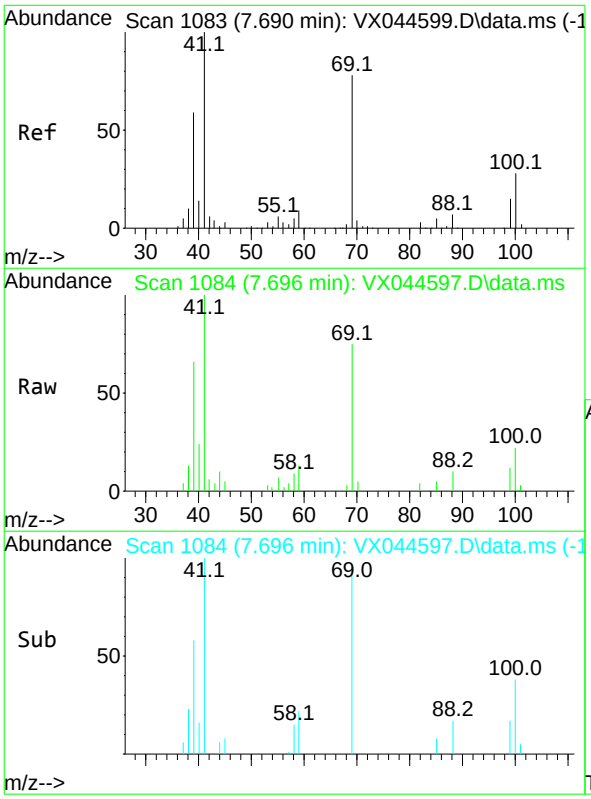
Ion	Ratio	Lower	Upper
83	100		
85	61.1	50.4	75.6
127	8.5	6.2	9.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

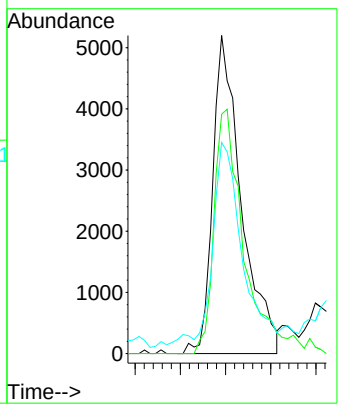
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

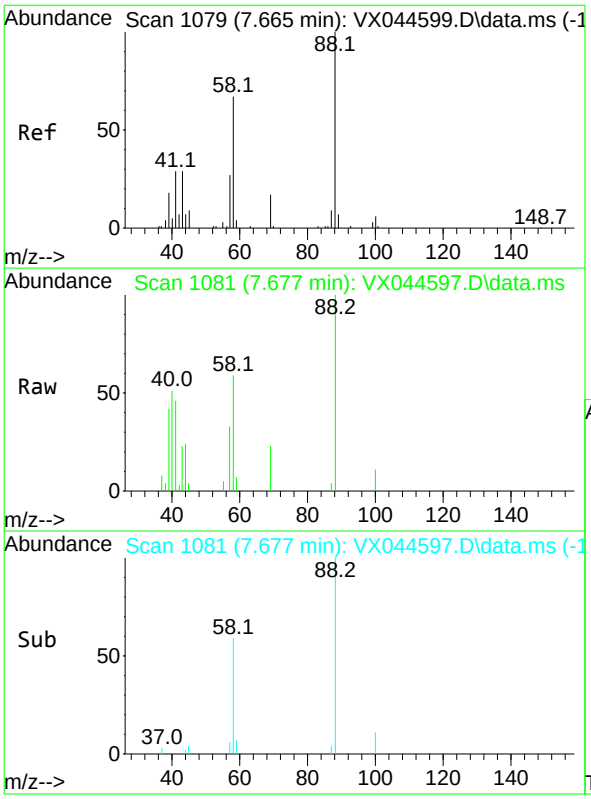


#48
Methyl methacrylate
Concen: 4.870 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. 0.006 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 41 Resp: 11428

Ion	Ratio	Lower	Upper
41	100		
69	80.3	62.9	94.3
39	68.6	48.9	73.3

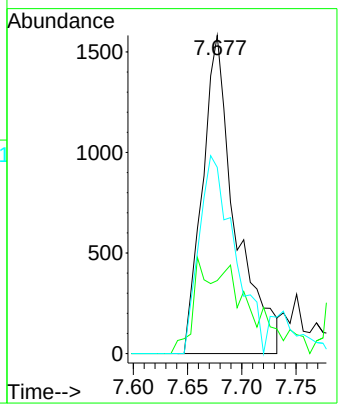




#49
1,4-Dioxane
Concen: 96.762 ug/l
RT: 7.677 min Scan# 10
Delta R.T. 0.012 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 88 Resp: 3337

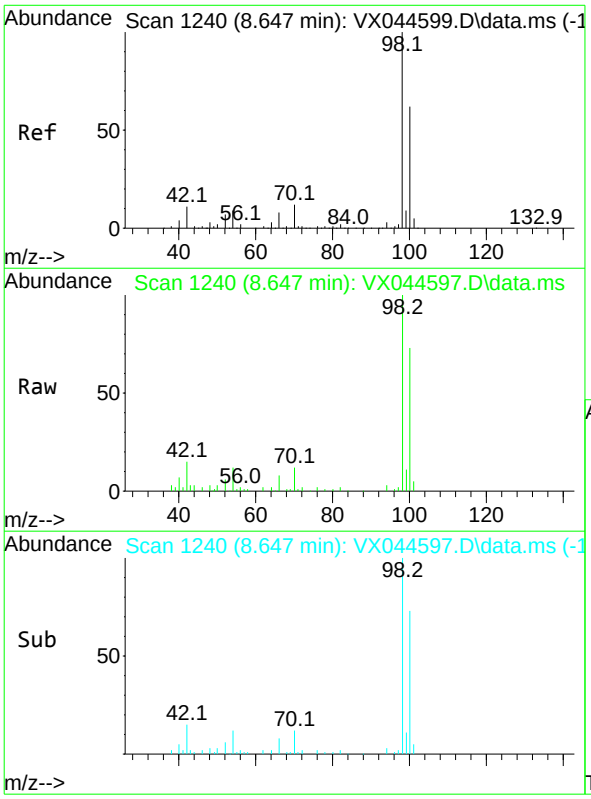
Ion	Ratio	Lower	Upper
88	100		
43	0.0	29.5	44.3#
58	66.5	56.3	84.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

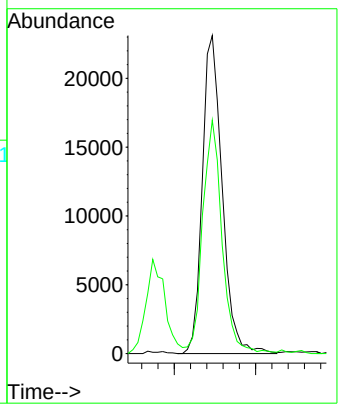
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

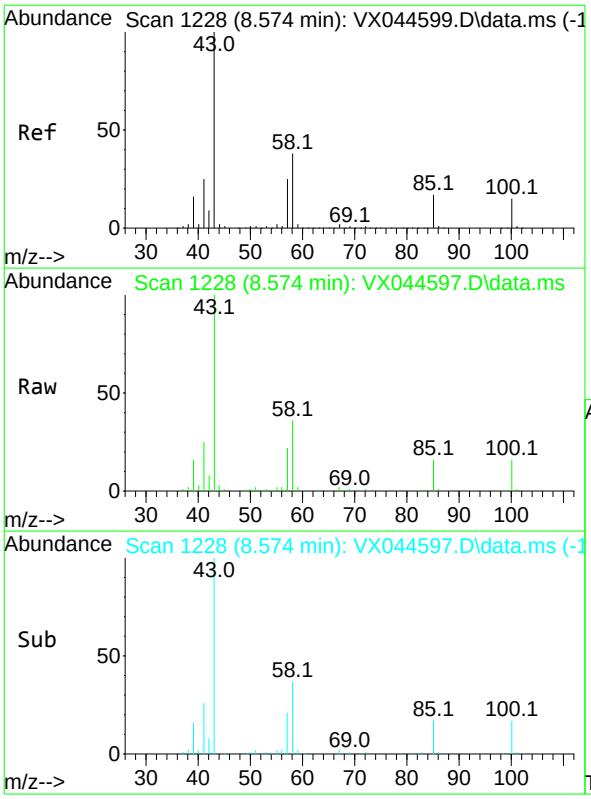


#50
Toluene-d8
Concen: 5.090 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 98 Resp: 39205

Ion	Ratio	Lower	Upper
98	100		
100	70.3	52.5	78.7

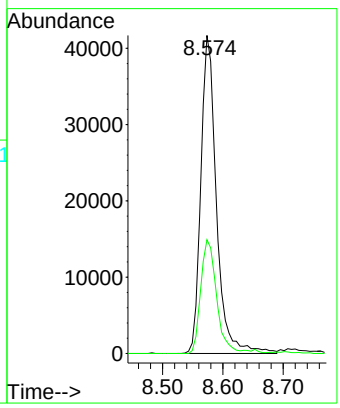




#51
4-Methyl-2-Pentanone
Concen: 26.029 ug/l
RT: 8.574 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 43 Resp: 74867

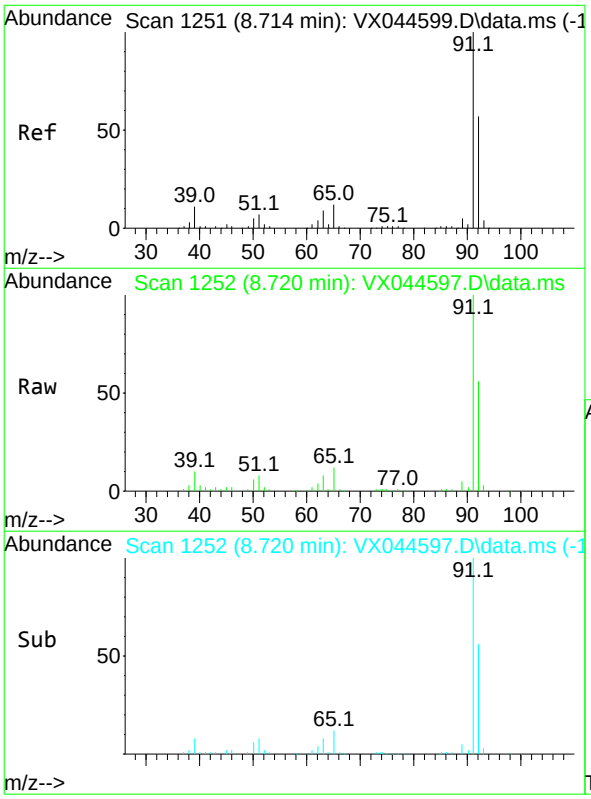
Ion	Ratio	Lower	Upper
43	100		
58	36.5	30.0	45.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

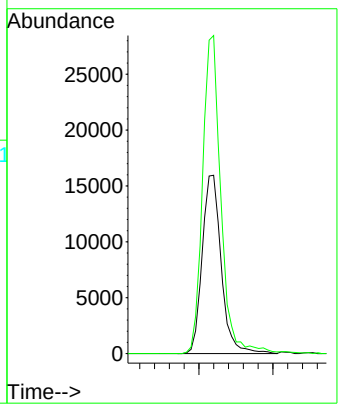
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

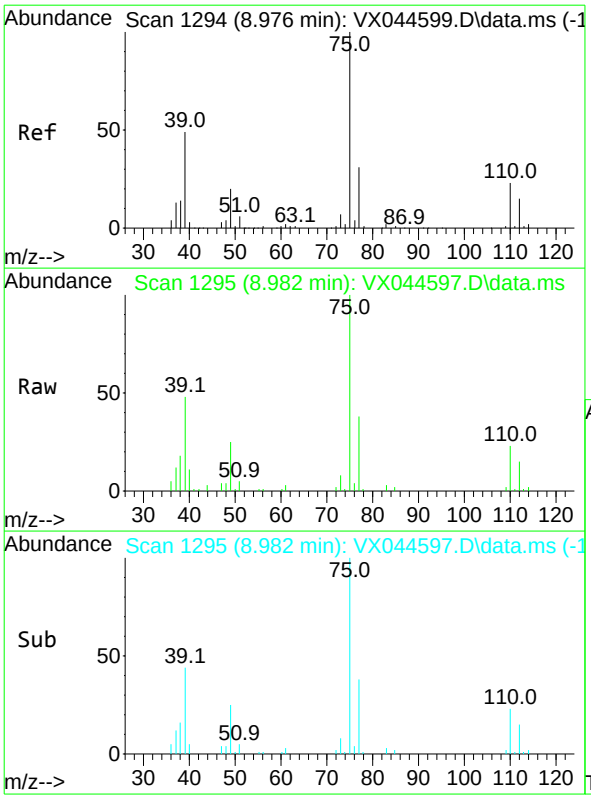


#52
Toluene
Concen: 5.147 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.006 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 92 Resp: 28506

Ion	Ratio	Lower	Upper
92	100		
91	172.1	140.6	210.8

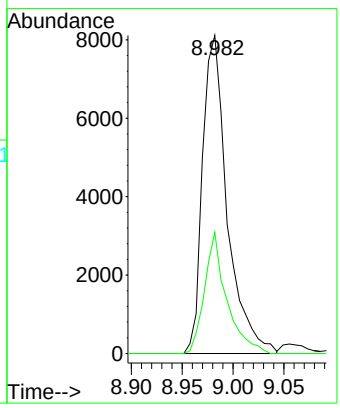




#53
t-1,3-Dichloropropene
Concen: 4.521 ug/l
RT: 8.982 min Scan# 12
Delta R.T. 0.006 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 75 Resp: 13689

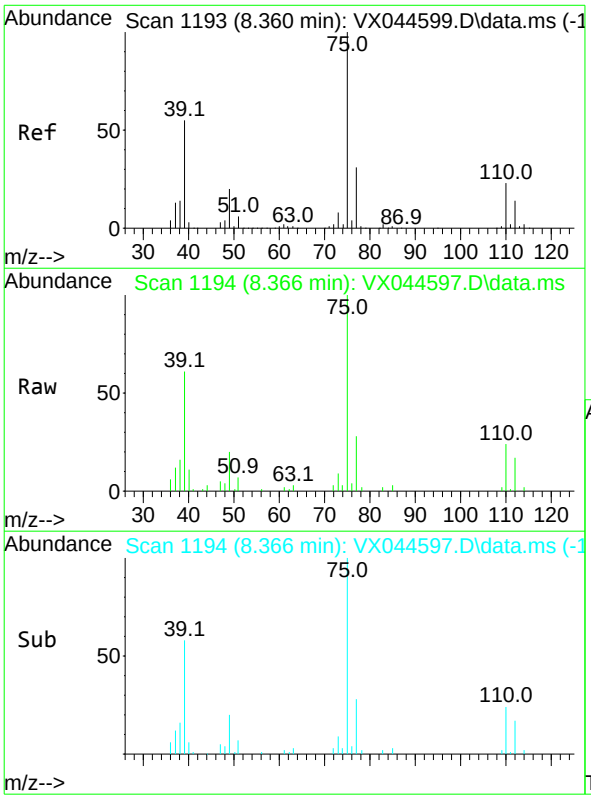
Ion	Ratio	Lower	Upper
75	100		
77	38.1	24.8	37.2#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

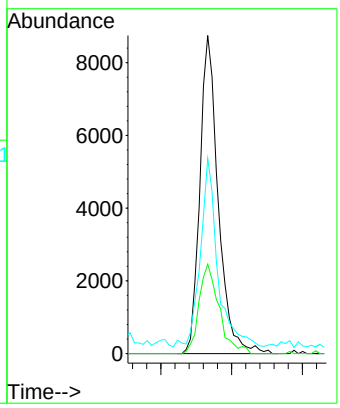
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

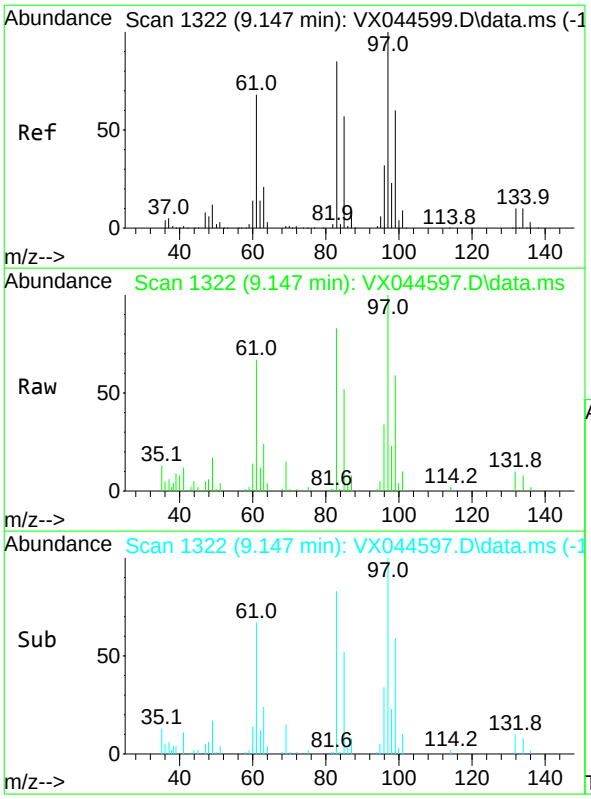


#54
cis-1,3-Dichloropropene
Concen: 4.640 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.006 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 75 Resp: 15789

Ion	Ratio	Lower	Upper
75	100		
77	28.1	24.5	36.7
39	59.0	44.3	66.5

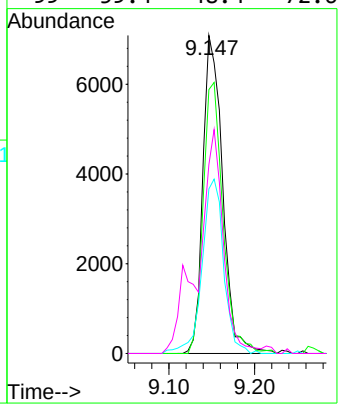




#55
1,1,2-Trichloroethane
Concen: 5.218 ug/l
RT: 9.147 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 97 Resp: 11331

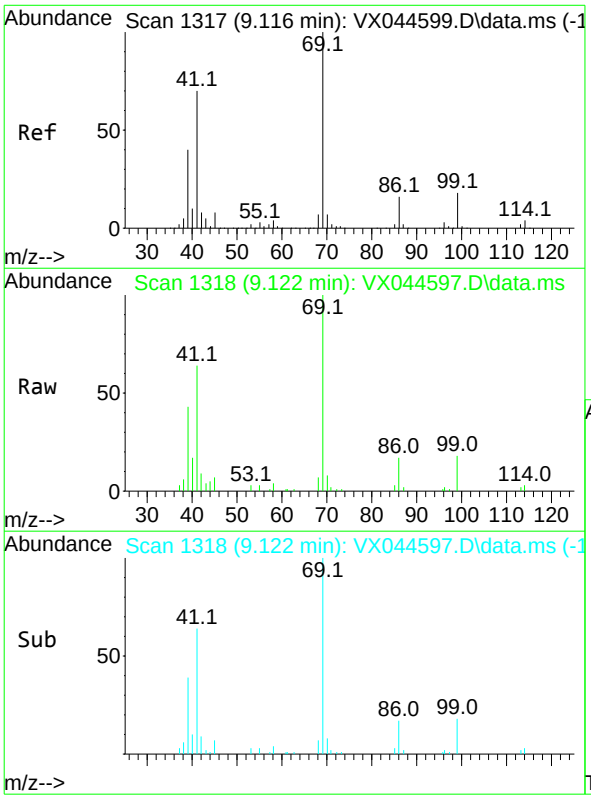
Ion	Ratio	Lower	Upper
97	100		
83	83.0	68.0	102.0
85	51.7	45.4	68.0
99	59.4	48.4	72.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

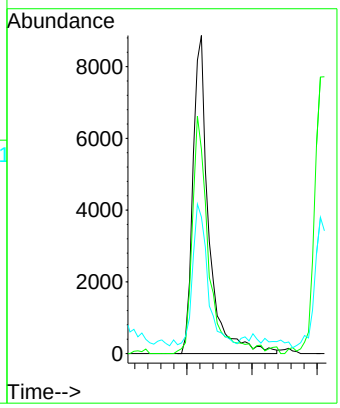
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

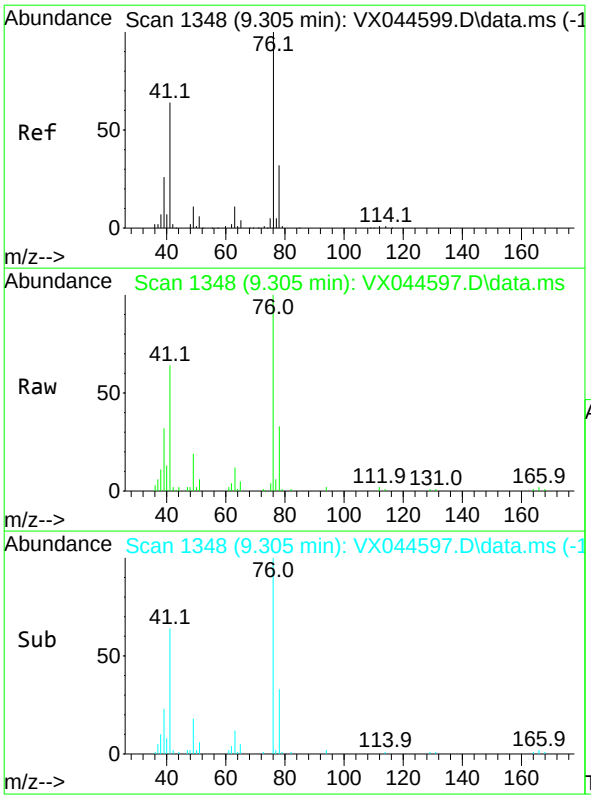


#56
Ethyl methacrylate
Concen: 4.741 ug/l
RT: 9.122 min Scan# 1318
Delta R.T. 0.006 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 69 Resp: 14973

Ion	Ratio	Lower	Upper
69	100		
41	75.3	57.7	86.5
39	42.6	33.7	50.5

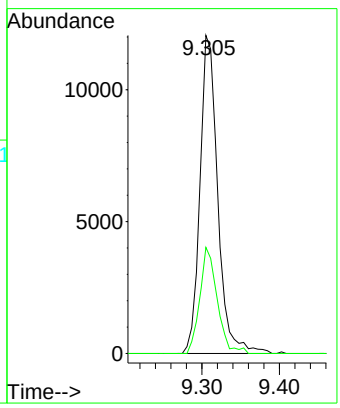




#57
1,3-Dichloropropane
Concen: 5.271 ug/l
RT: 9.305 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 76 Resp: 19219

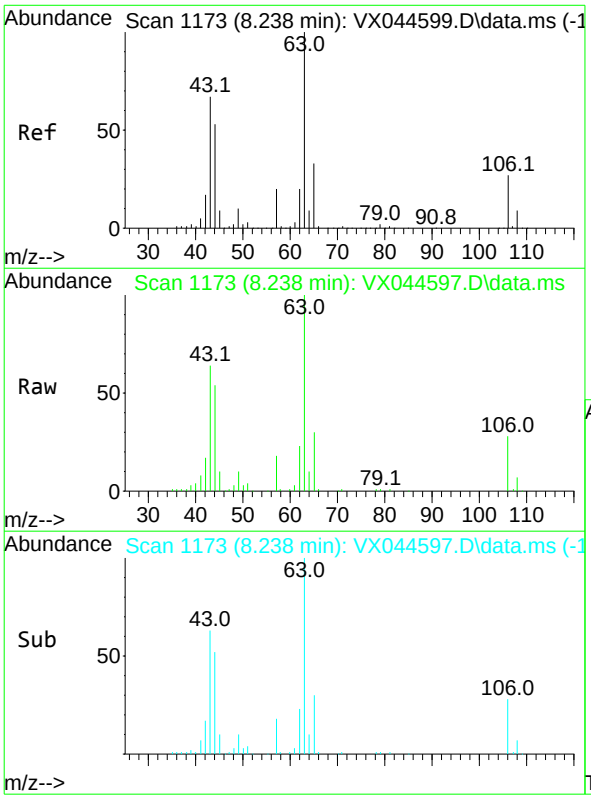
Ion	Ratio	Lower	Upper
76	100		
78	32.6	25.8	38.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

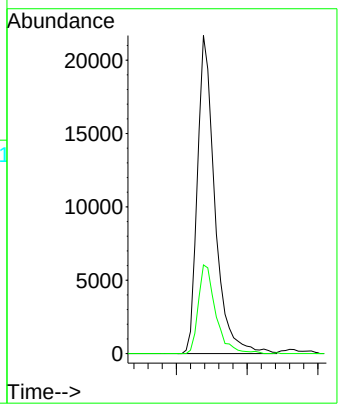
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

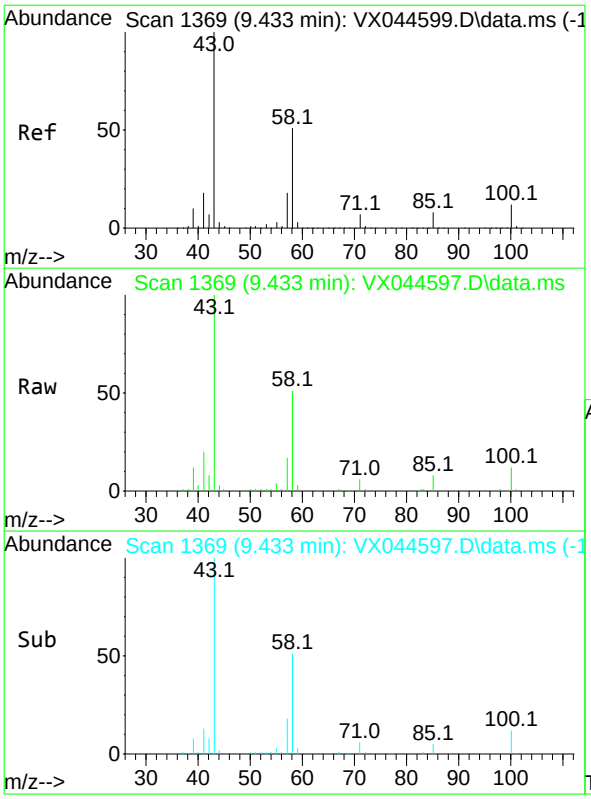


#58
2-Chloroethyl Vinyl ether
Concen: 23.707 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 63 Resp: 37113

Ion	Ratio	Lower	Upper
63	100		
106	27.8	22.4	33.6

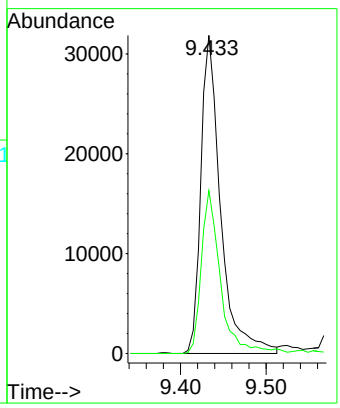




#59
2-Hexanone
Concen: 25.095 ug/l
RT: 9.433 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 43 Resp: 51047

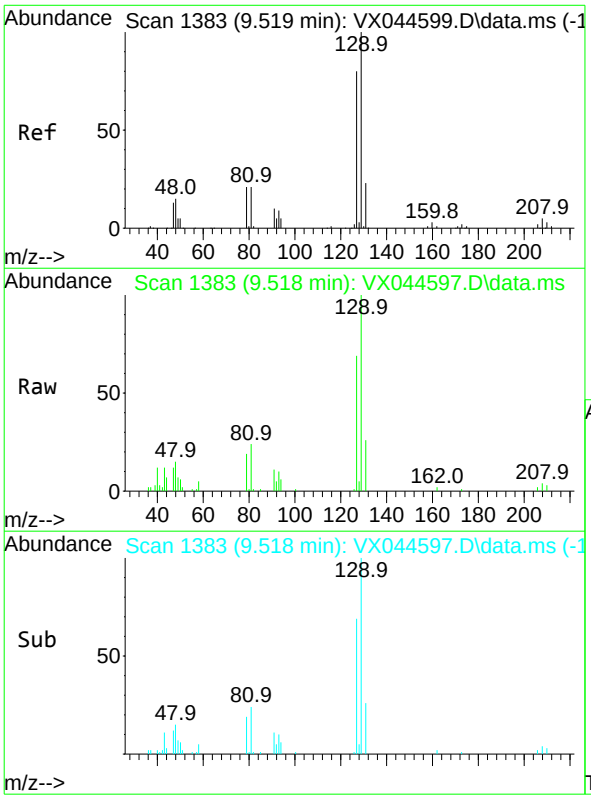
Ion	Ratio	Lower	Upper
43	100		
58	49.5	25.4	76.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

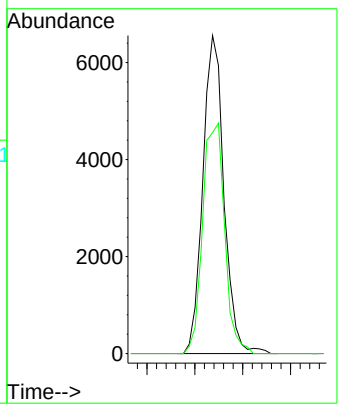
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

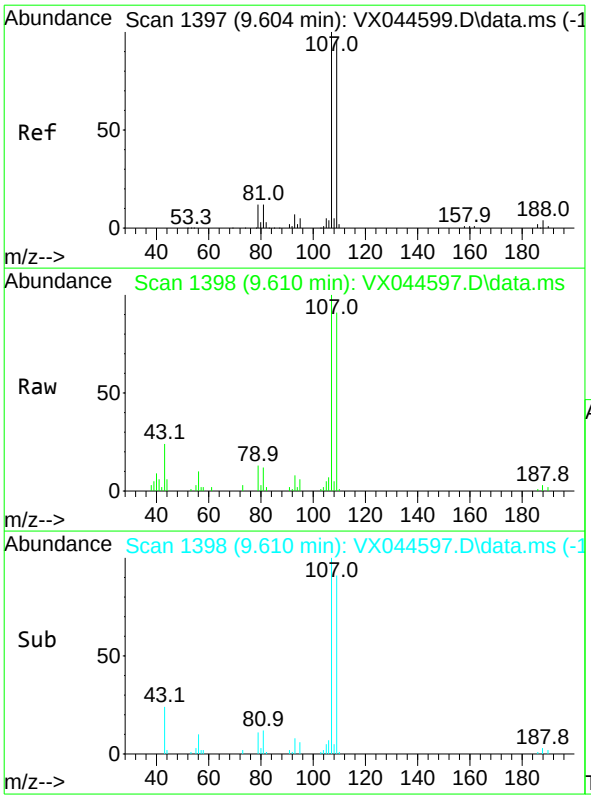


#60
Dibromochloromethane
Concen: 4.629 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion:129 Resp: 10022

Ion	Ratio	Lower	Upper
129	100		
127	75.6	38.9	116.7

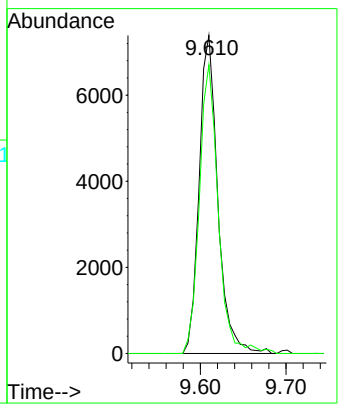




#61
1,2-Dibromoethane
Concen: 5.093 ug/l
RT: 9.610 min Scan# 13
Delta R.T. 0.006 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion:107 Resp: 11169

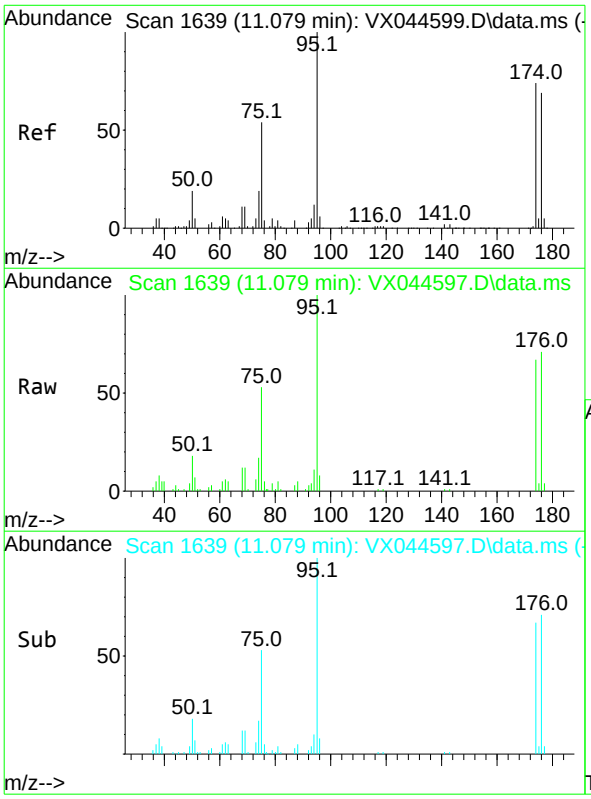
Ion	Ratio	Lower	Upper
107	100		
109	92.1	76.7	115.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

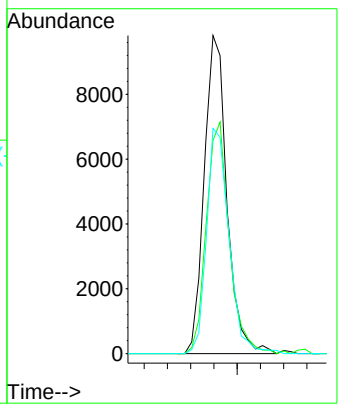
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

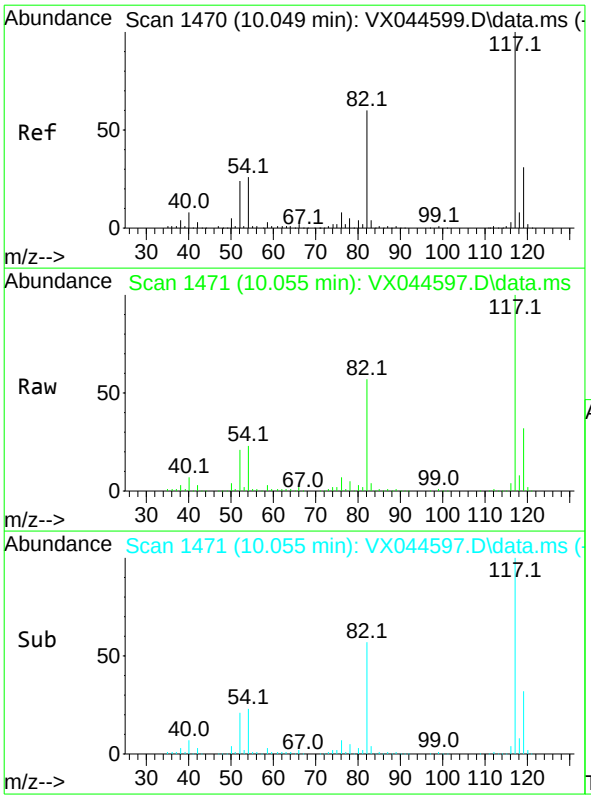


#62
4-Bromofluorobenzene
Concen: 4.889 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 95 Resp: 13290

Ion	Ratio	Lower	Upper
95	100		
174	73.4	0.0	148.8
176	70.1	0.0	139.8

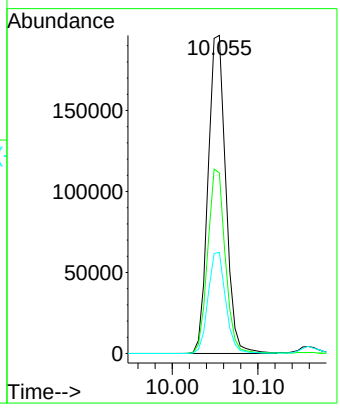




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion:117 Resp: 281481

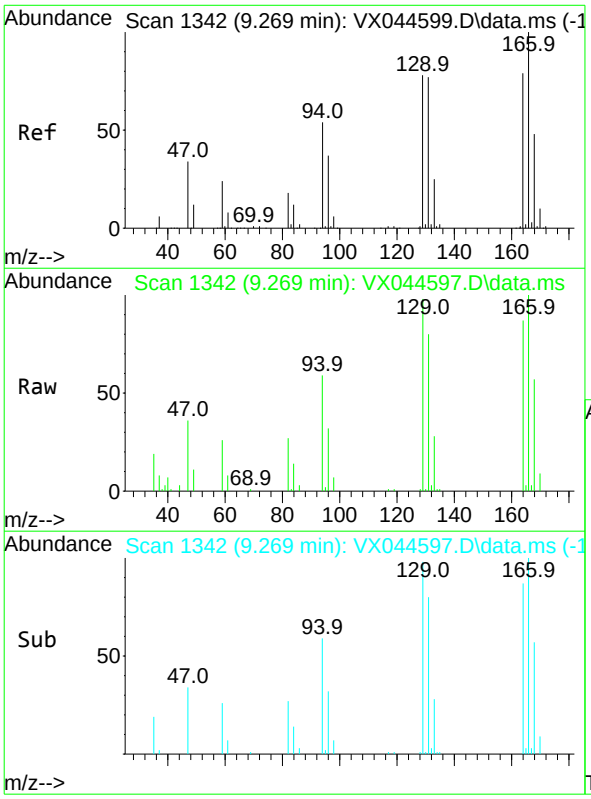
Ion	Ratio	Lower	Upper
117	100		
82	56.8	47.8	71.6
119	31.8	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

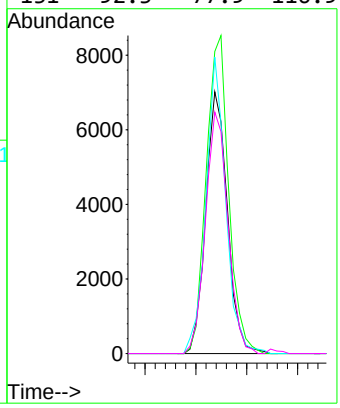
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

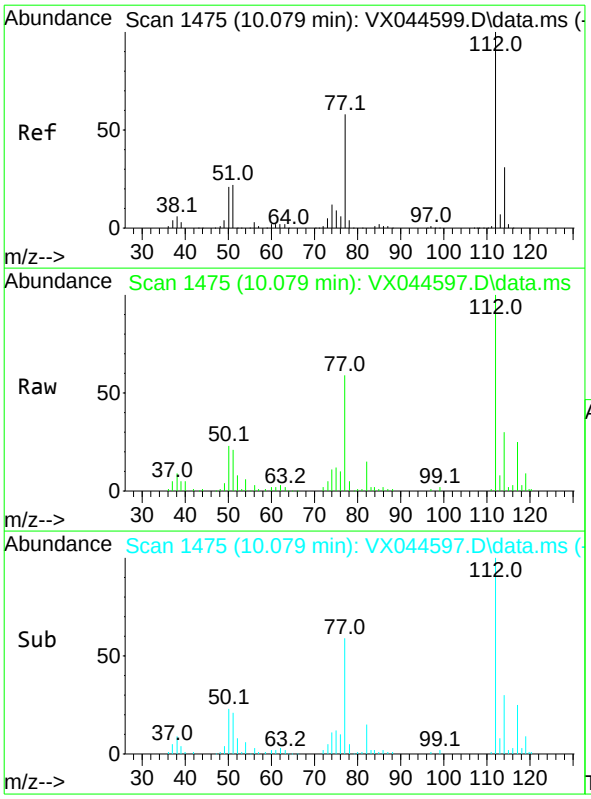


#64
Tetrachloroethene
Concen: 5.236 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion:164 Resp: 10421

Ion	Ratio	Lower	Upper
164	100		
166	115.4	101.5	152.3
129	113.2	78.9	118.3
131	92.3	77.9	116.9

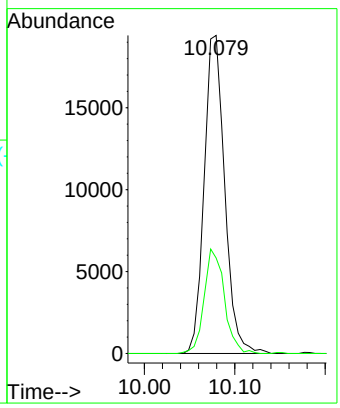




#65
Chlorobenzene
Concen: 5.132 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion:112 Resp: 30656

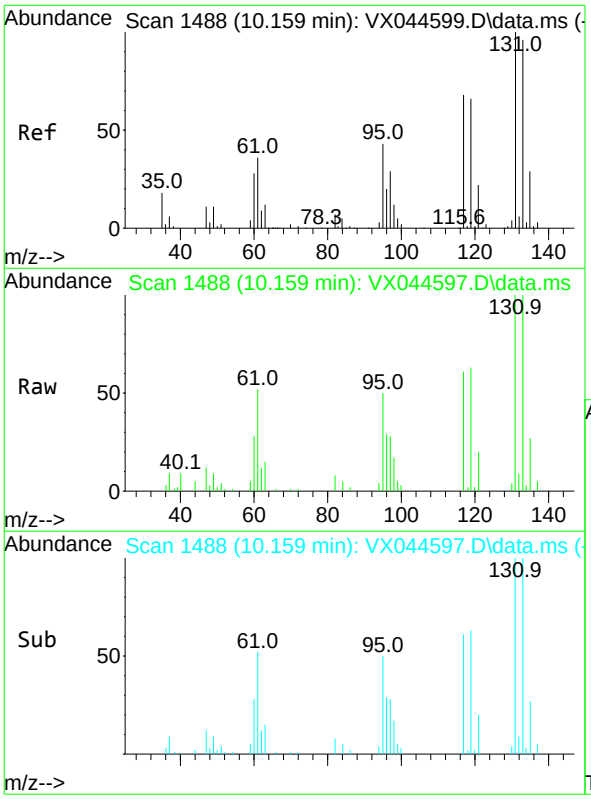
Ion	Ratio	Lower	Upper
112	100		
114	30.0	25.0	37.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

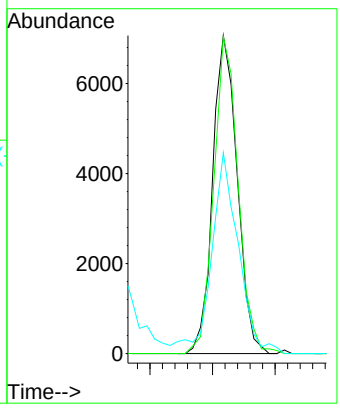
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

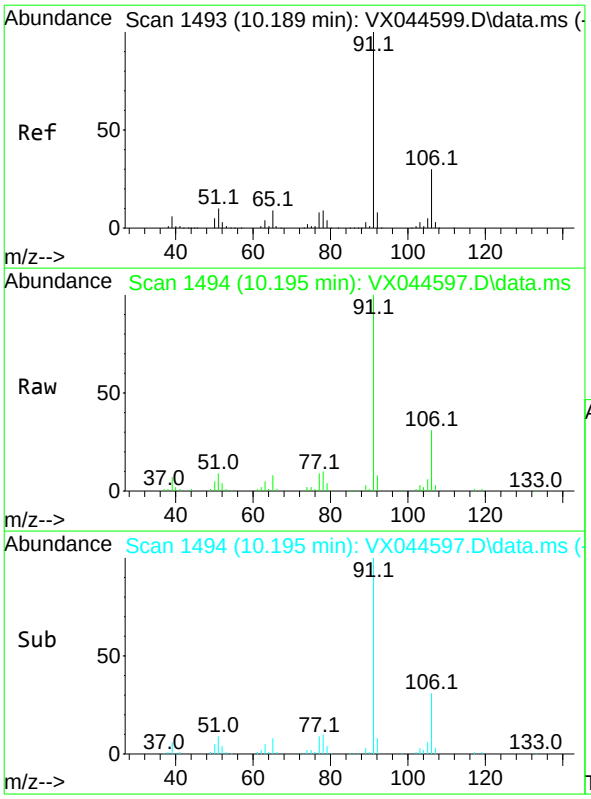


#66
1,1,1,2-Tetrachloroethane
Concen: 4.834 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion:131 Resp: 9592

Ion	Ratio	Lower	Upper
131	100		
133	99.1	48.0	144.0
119	69.1	32.8	98.4

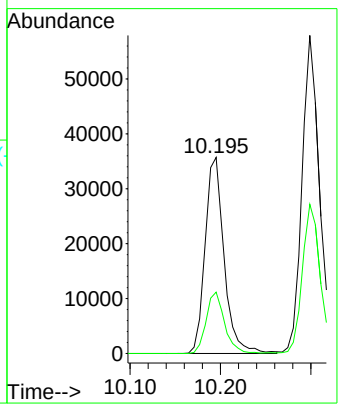




#67
Ethyl Benzene
Concen: 5.086 ug/l
RT: 10.195 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 91 Resp: 52173

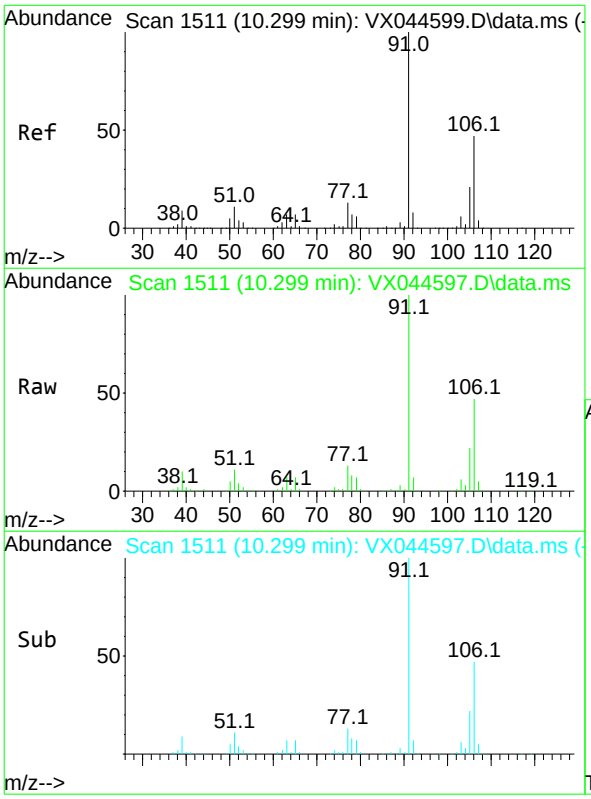
Ion	Ratio	Lower	Upper
91	100		
106	31.3	23.8	35.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

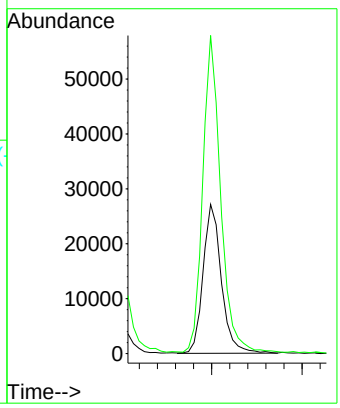
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

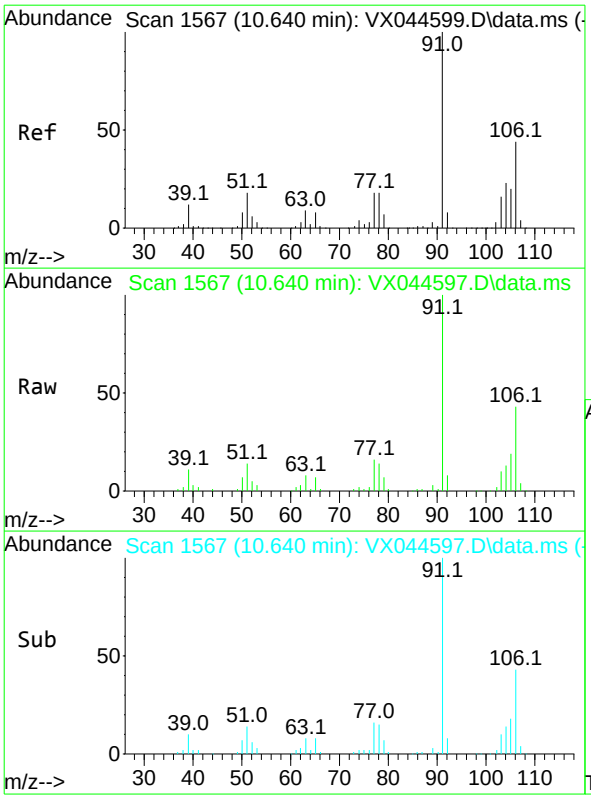


#68
m/p-Xylenes
Concen: 10.109 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion:106 Resp: 38109

Ion	Ratio	Lower	Upper
106	100		
91	207.7	170.4	255.6

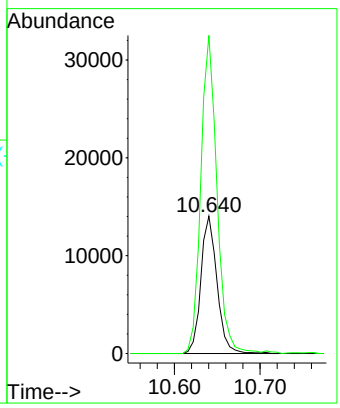




#69
o-Xylene
Concen: 4.812 ug/l
RT: 10.640 min Scan# 15
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion:106 Resp: 18309

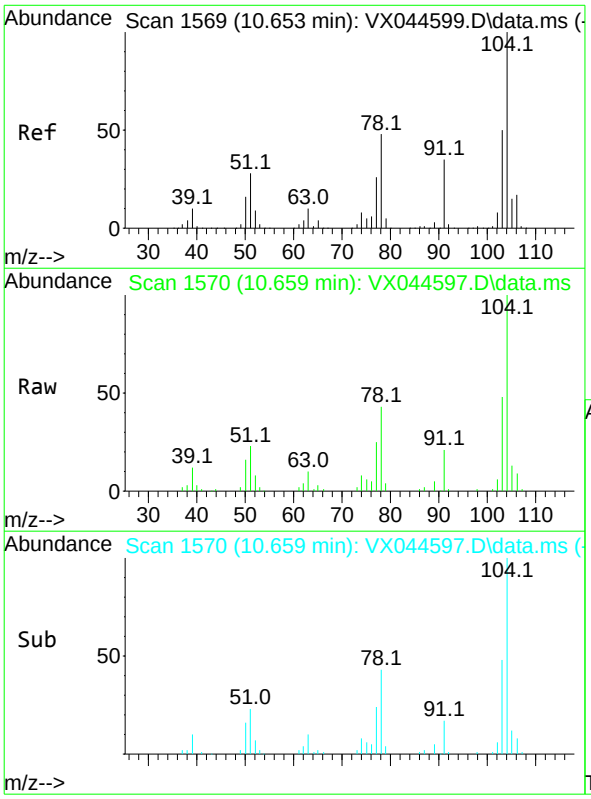
Ion	Ratio	Lower	Upper
106	100		
91	231.2	112.3	336.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

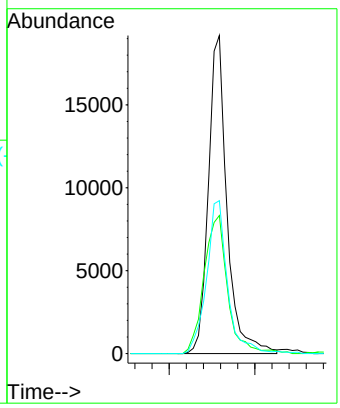
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

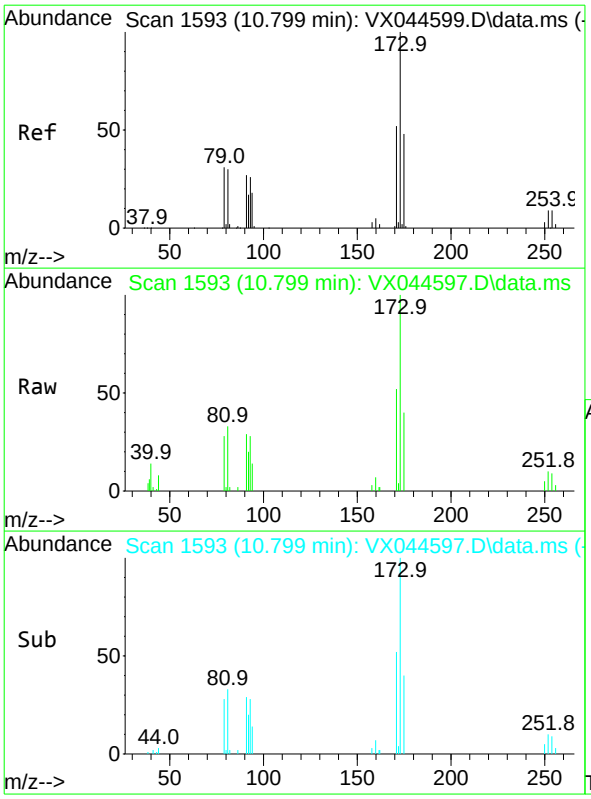


#70
Styrene
Concen: 4.745 ug/l
RT: 10.659 min Scan# 1570
Delta R.T. 0.006 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion:104 Resp: 28881

Ion	Ratio	Lower	Upper
104	100		
78	55.2	44.0	66.0
103	54.6	43.8	65.6

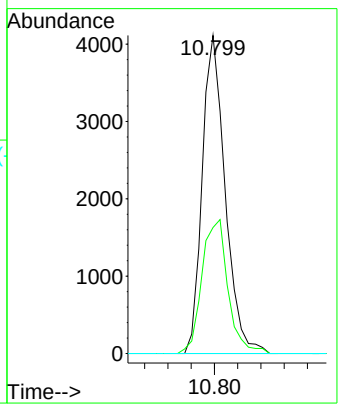




#71
Bromoform
Concen: 4.960 ug/l
RT: 10.799 min Scan# 15
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion:173 Resp: 5635

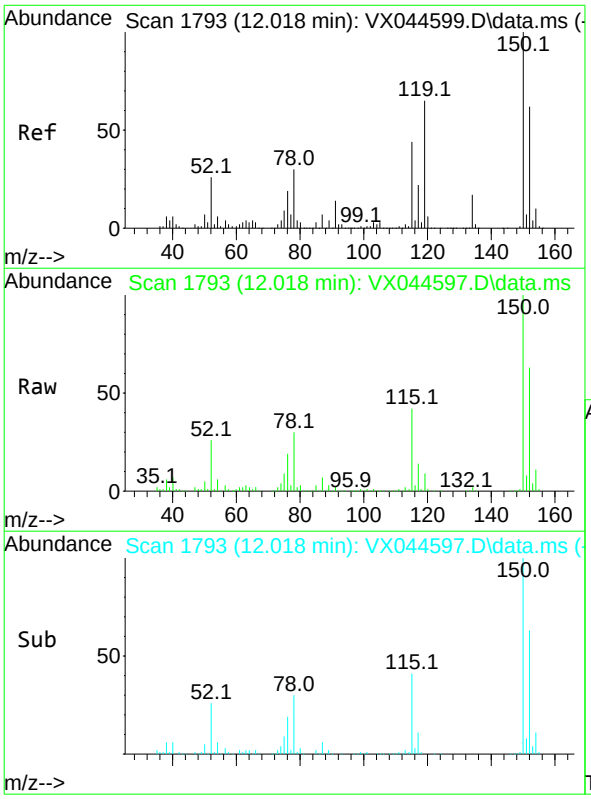
Ion	Ratio	Lower	Upper
173	100		
175	47.7	24.6	73.8
254	0.0	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

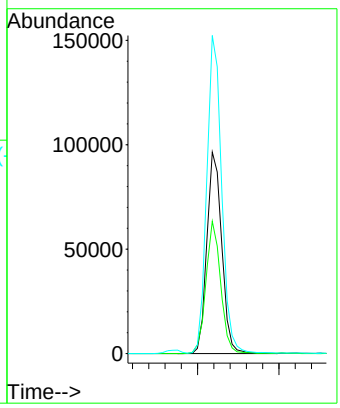
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

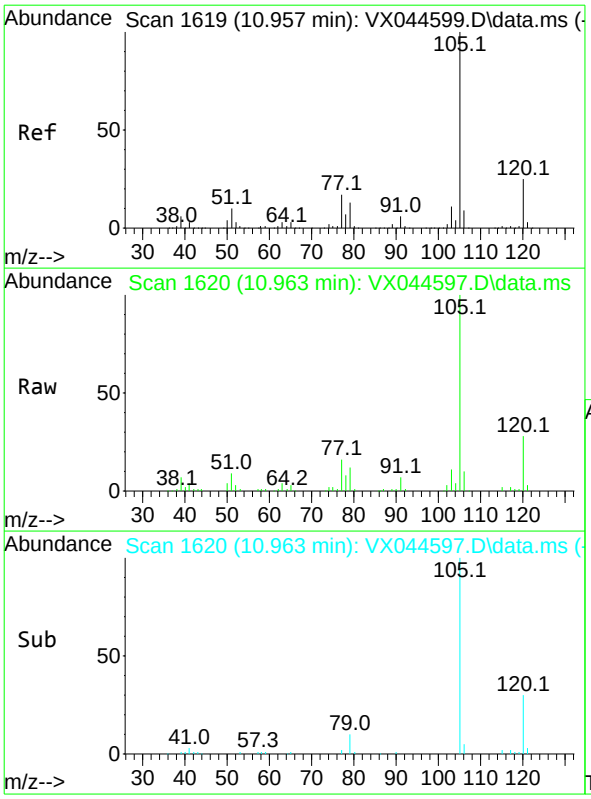


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion:152 Resp: 122676

Ion	Ratio	Lower	Upper
152	100		
115	64.8	44.4	133.1
150	156.9	0.0	355.0

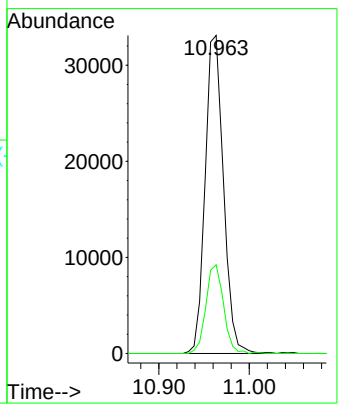




#73
Isopropylbenzene
Concen: 5.131 ug/l
RT: 10.963 min Scan# 16
Delta R.T. 0.006 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion:105 Resp: 46634

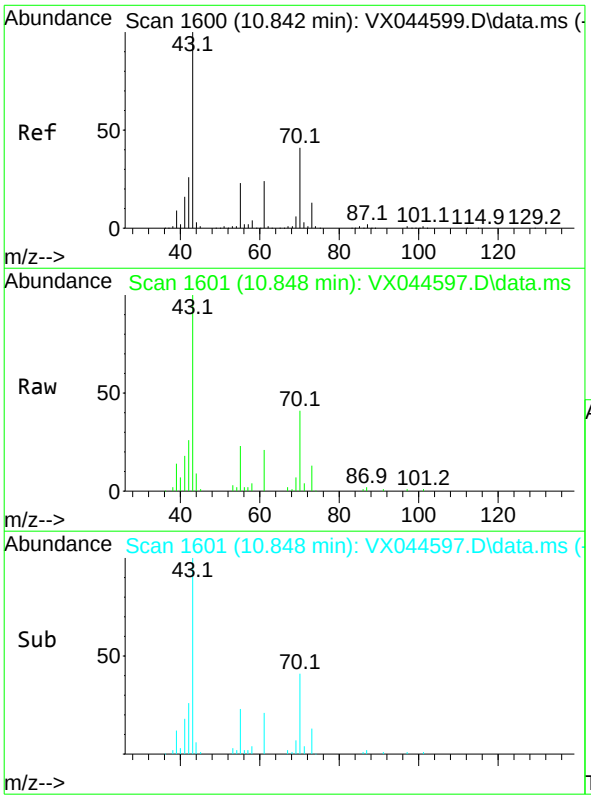
Ion	Ratio	Lower	Upper
105	100		
120	26.9	13.0	38.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

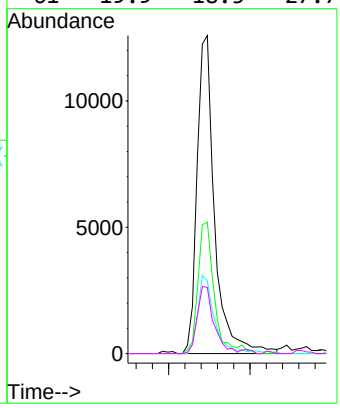
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

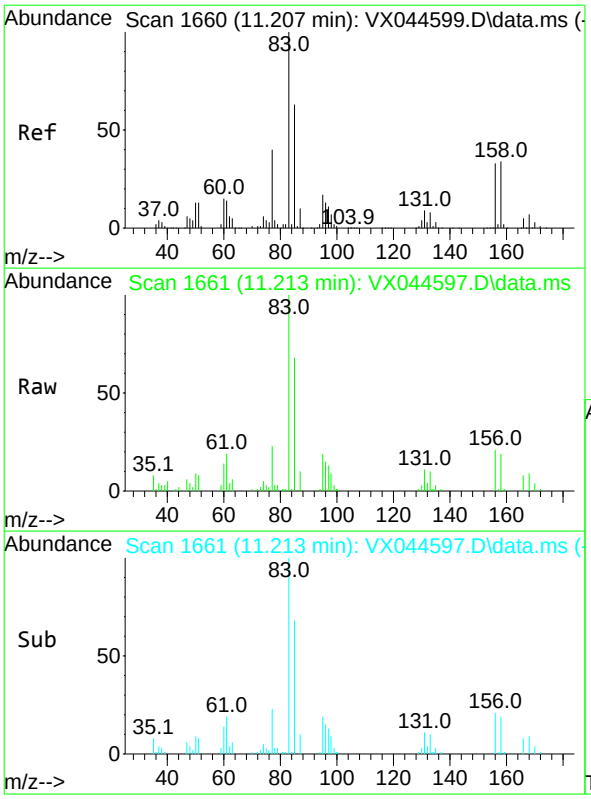


#74
N-amyl acetate
Concen: 5.114 ug/l
RT: 10.848 min Scan# 1601
Delta R.T. 0.006 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 43 Resp: 18861

Ion	Ratio	Lower	Upper
43	100		
70	38.5	32.9	49.3
55	23.9	19.0	28.6
61	19.9	18.5	27.7

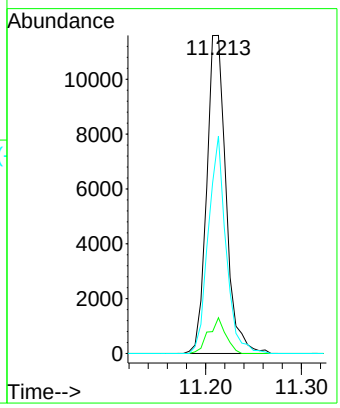




#75
1,1,2,2-Tetrachloroethane
Concen: 5.528 ug/l
RT: 11.213 min Scan# 16
Delta R.T. 0.006 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 83 Resp: 16194

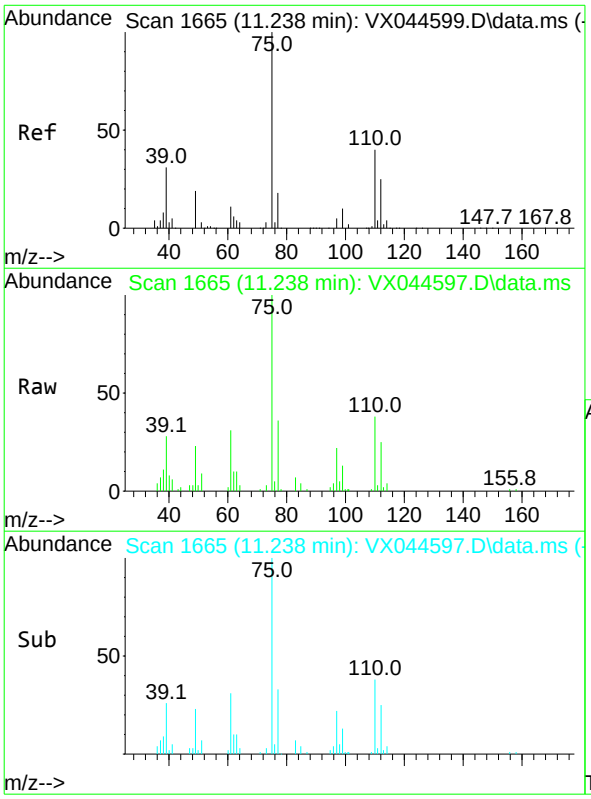
Ion	Ratio	Lower	Upper
83	100		
131	10.0	5.0	15.0
85	62.9	31.9	95.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

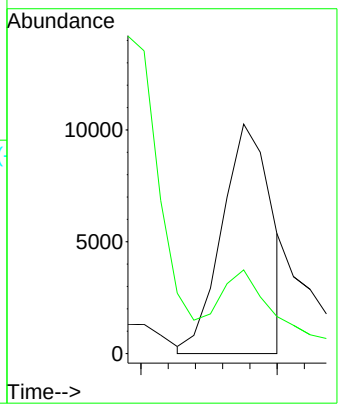
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

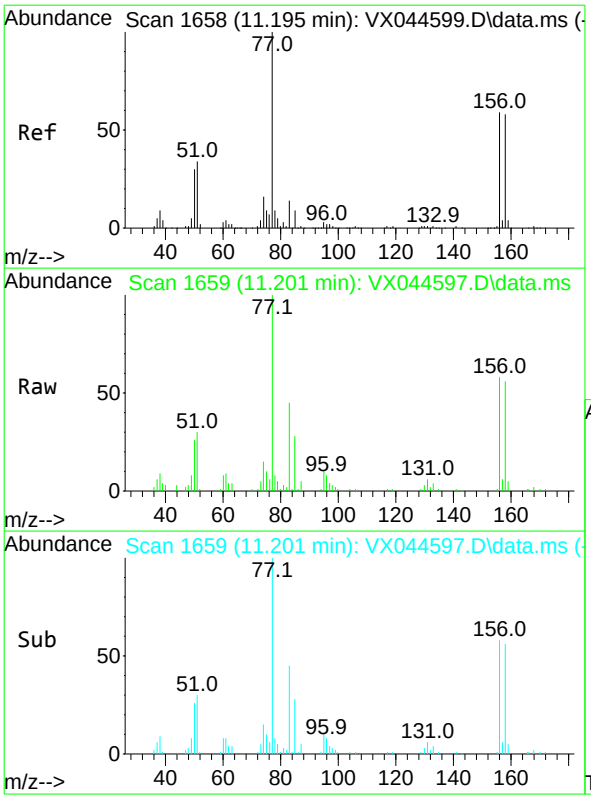


#76
1,2,3-Trichloropropane
Concen: 5.262 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 75 Resp: 12940

Ion	Ratio	Lower	Upper
75	100		
77	46.4	21.1	63.1

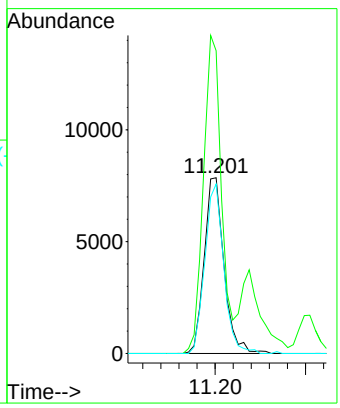




#77
Bromobenzene
Concen: 5.413 ug/l
RT: 11.201 min Scan# 16
Delta R.T. 0.006 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion:156 Resp: 11951

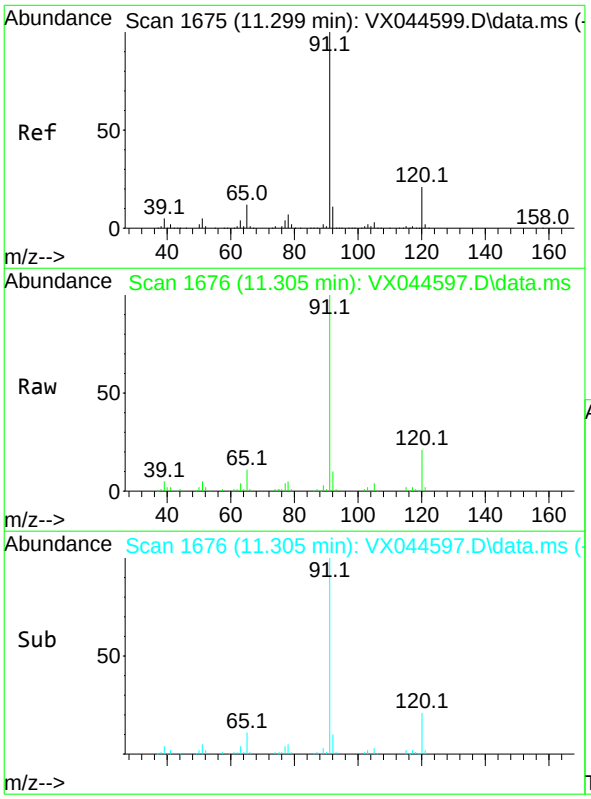
Ion	Ratio	Lower	Upper
156	100		
77	164.0	85.7	257.1
158	92.2	49.9	149.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

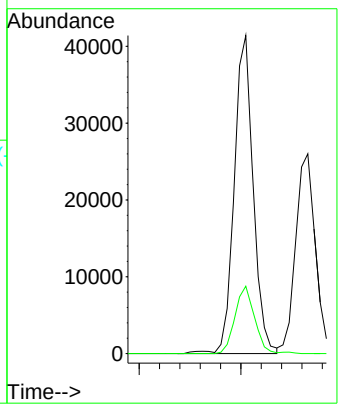
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

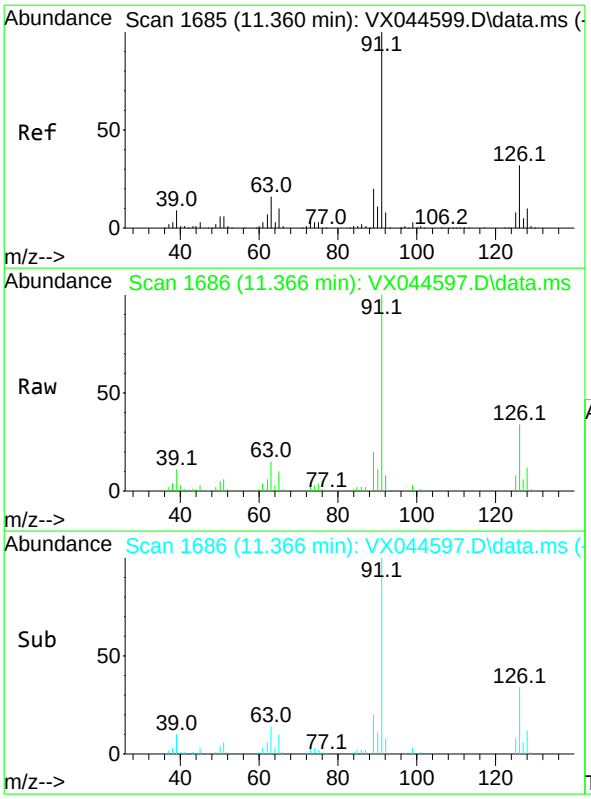


#78
n-propylbenzene
Concen: 5.237 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.006 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 91 Resp: 53610

Ion	Ratio	Lower	Upper
91	100		
120	22.0	11.2	33.5

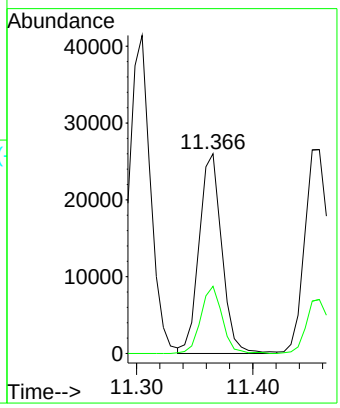




#79
2-Chlorotoluene
Concen: 5.330 ug/l
RT: 11.366 min Scan# 16
Delta R.T. 0.006 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 91 Resp: 35356

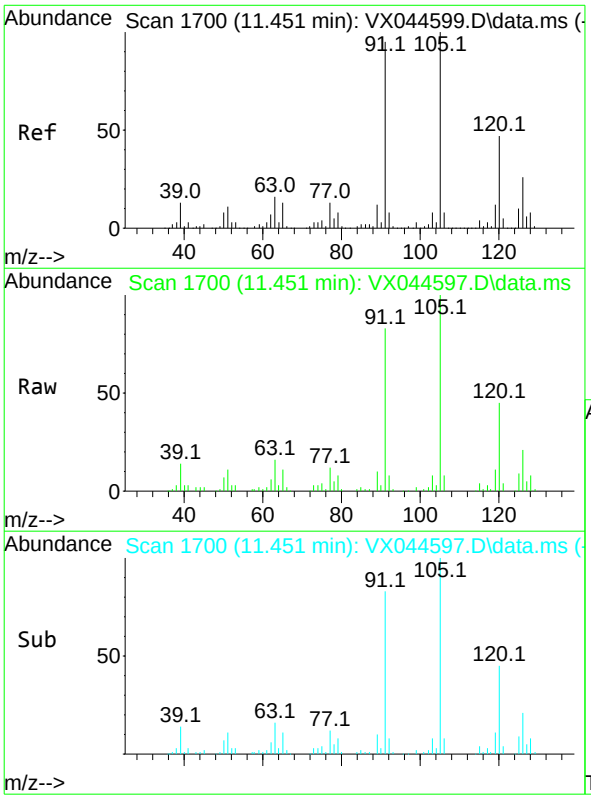
Ion	Ratio	Lower	Upper
91	100		
126	31.7	16.4	49.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

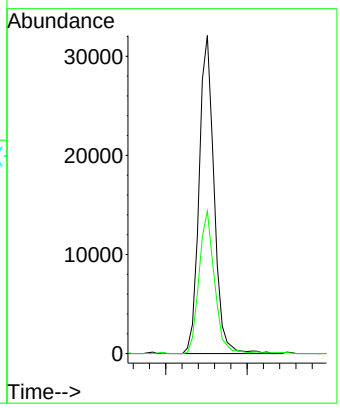
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

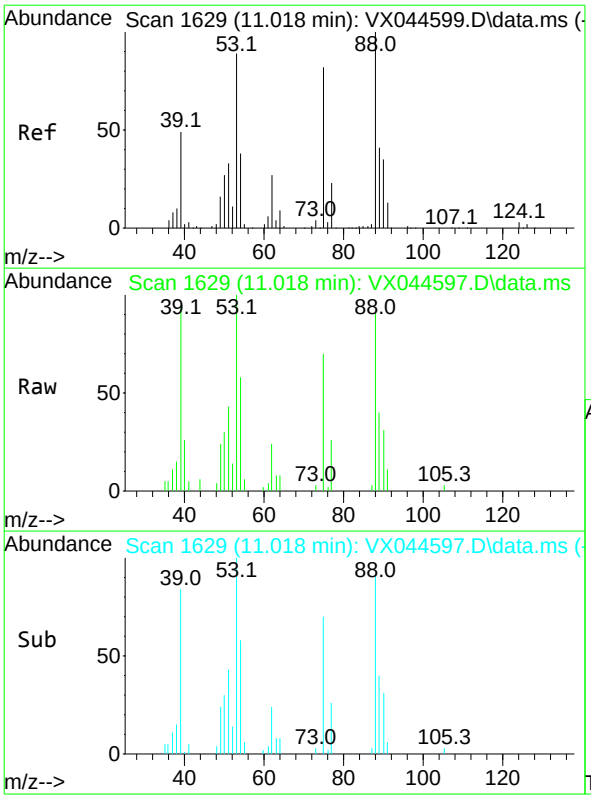


#80
1,3,5-Trimethylbenzene
Concen: 5.422 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion:105 Resp: 40862

Ion	Ratio	Lower	Upper
105	100		
120	46.3	23.5	70.5





#81
trans-1,4-Dichloro-2-butene
Concen: 3.975 ug/l
RT: 11.018 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

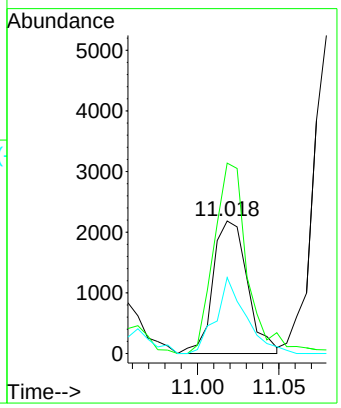
Tgt Ion: 75 Resp: 3211

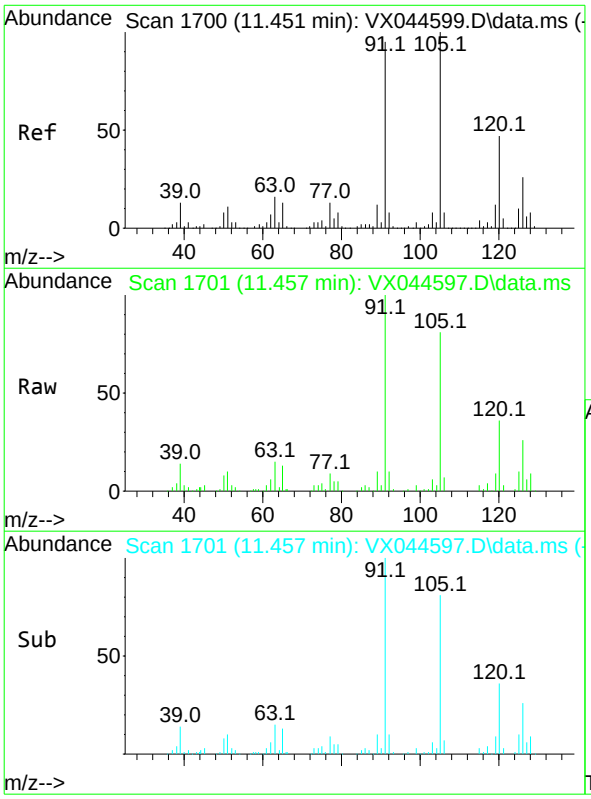
Ion	Ratio	Lower	Upper
75	100		
53	142.3	92.7	139.1#
89	50.1	38.3	57.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

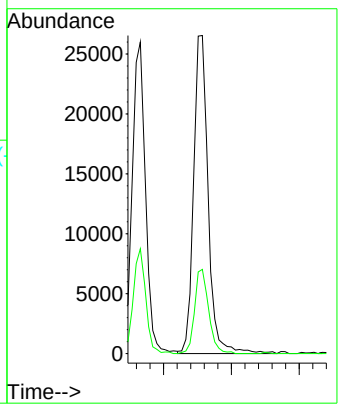


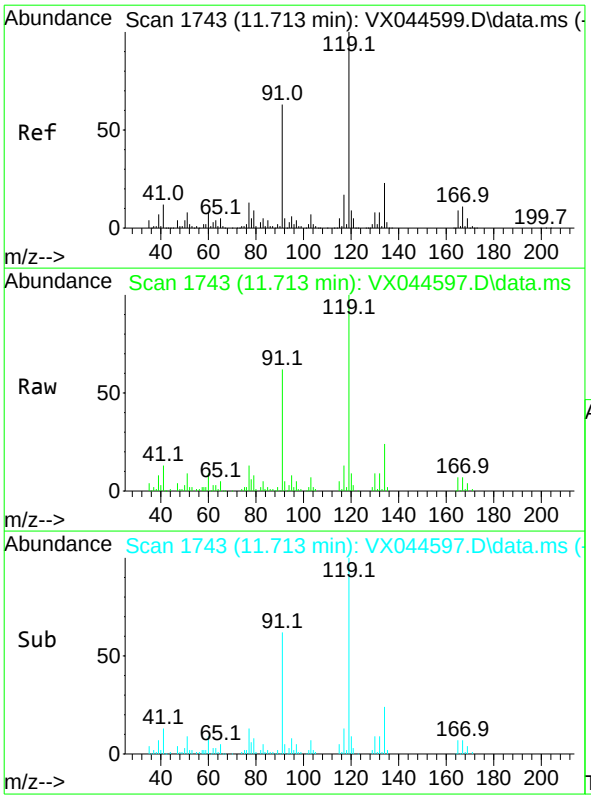


#82
4-Chlorotoluene
Concen: 5.298 ug/l
RT: 11.457 min Scan# 1701
Delta R.T. 0.006 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 91 Resp: 39535

Ion	Ratio	Lower	Upper
91	100		
126	25.6	14.0	42.0

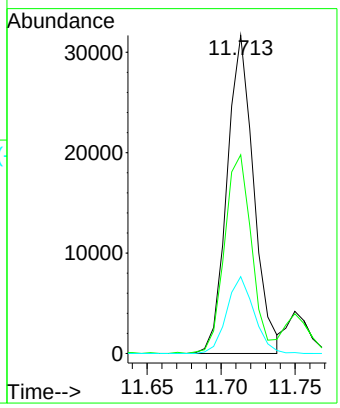




#83
tert-Butylbenzene
Concen: 5.274 ug/l
RT: 11.713 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion:119 Resp: 39571

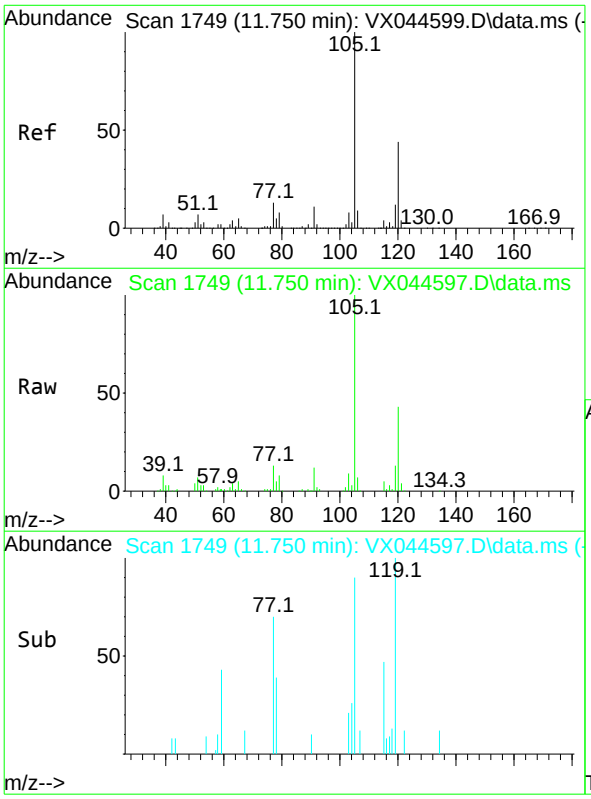
Ion	Ratio	Lower	Upper
119	100		
91	64.4	30.9	92.8
134	24.8	11.7	35.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

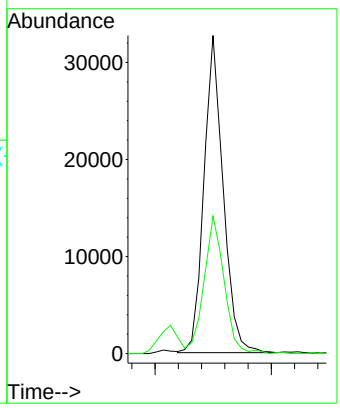
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

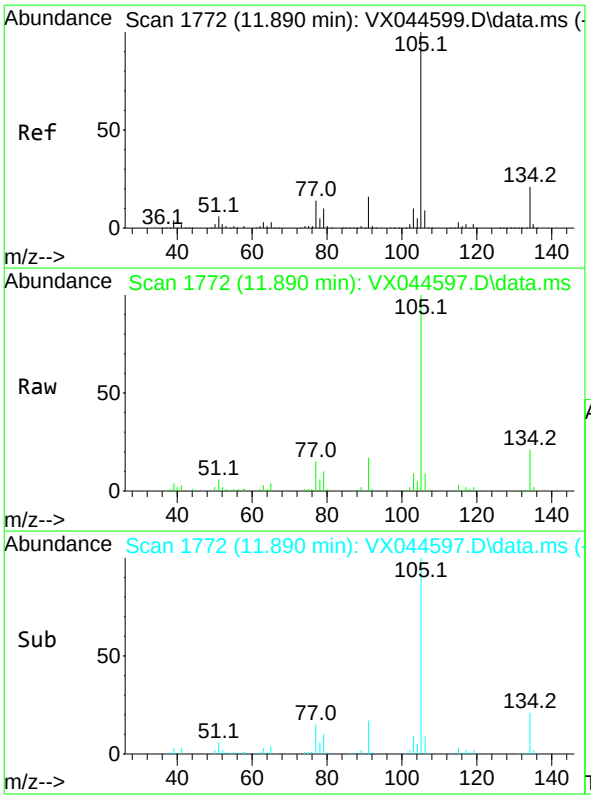


#84
1,2,4-Trimethylbenzene
Concen: 4.961 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion:105 Resp: 37556

Ion	Ratio	Lower	Upper
105	100		
120	45.5	21.9	65.7





#85
sec-Butylbenzene
Concen: 5.173 ug/l
RT: 11.890 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

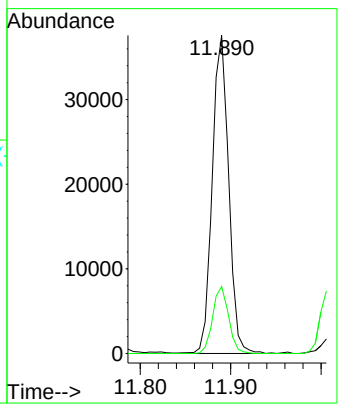
Tgt Ion:105 Resp: 47269

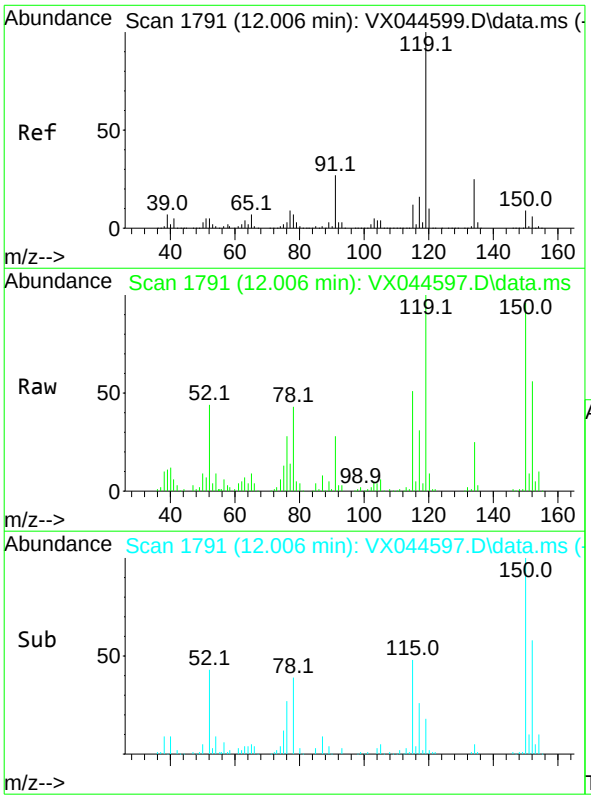
Ion	Ratio	Lower	Upper
105	100		
134	20.4	9.9	29.7

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

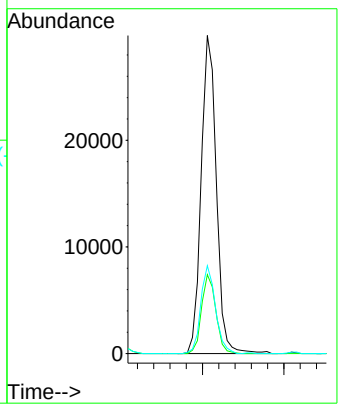


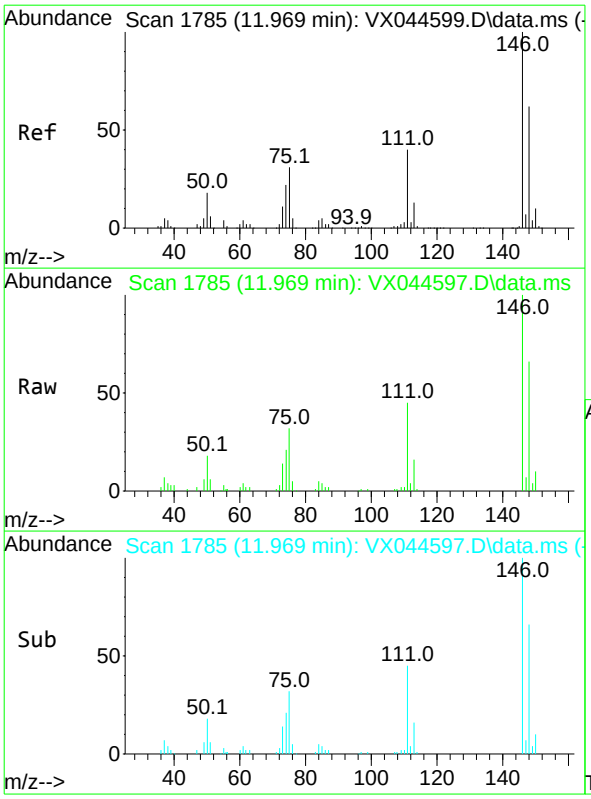


#86
p-Isopropyltoluene
Concen: 5.046 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion:119 Resp: 38691

Ion	Ratio	Lower	Upper
119	100		
134	23.3	12.6	37.8
91	26.8	13.1	39.1

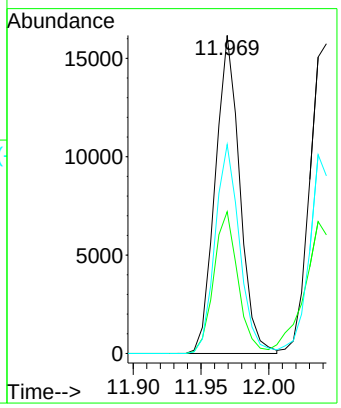




#87
1,3-Dichlorobenzene
Concen: 5.096 ug/l
RT: 11.969 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion:146 Resp: 20352

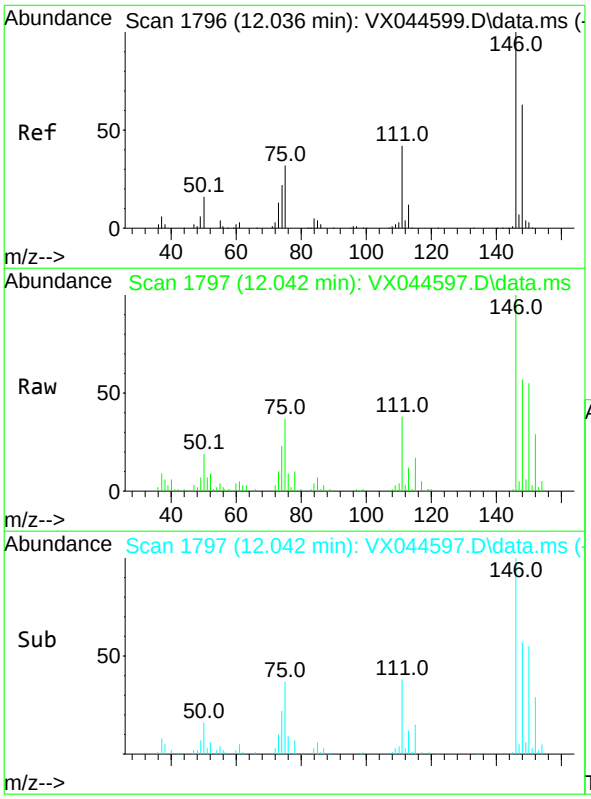
Ion	Ratio	Lower	Upper
146	100		
111	44.2	21.0	63.0
148	65.7	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

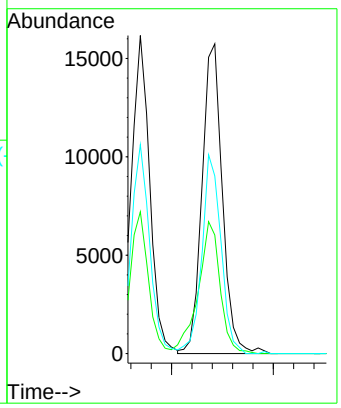
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

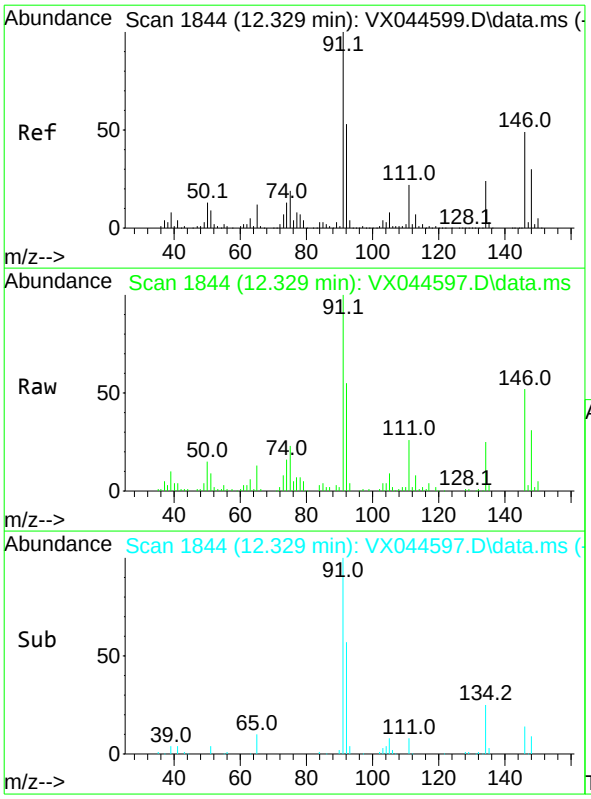


#88
1,4-Dichlorobenzene
Concen: 5.248 ug/l
RT: 12.042 min Scan# 1797
Delta R.T. 0.006 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion:146 Resp: 21839

Ion	Ratio	Lower	Upper
146	100		
111	46.1	20.7	62.1
148	60.4	31.8	95.4

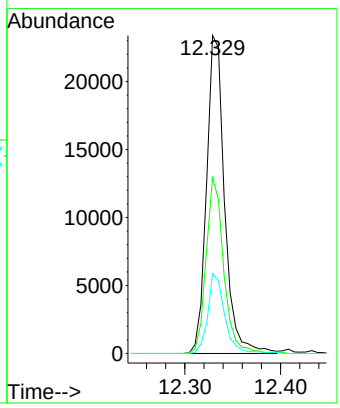




#89
n-Butylbenzene
Concen: 4.731 ug/l
RT: 12.329 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 91 Resp: 30630

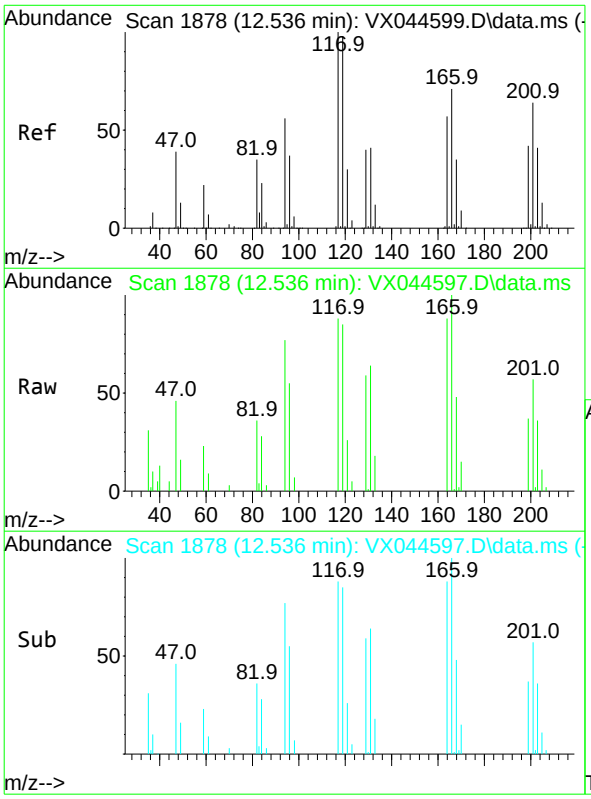
Ion	Ratio	Lower	Upper
91	100		
92	53.7	26.5	79.4
134	23.7	12.4	37.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

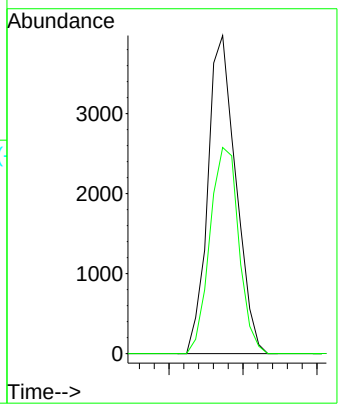
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

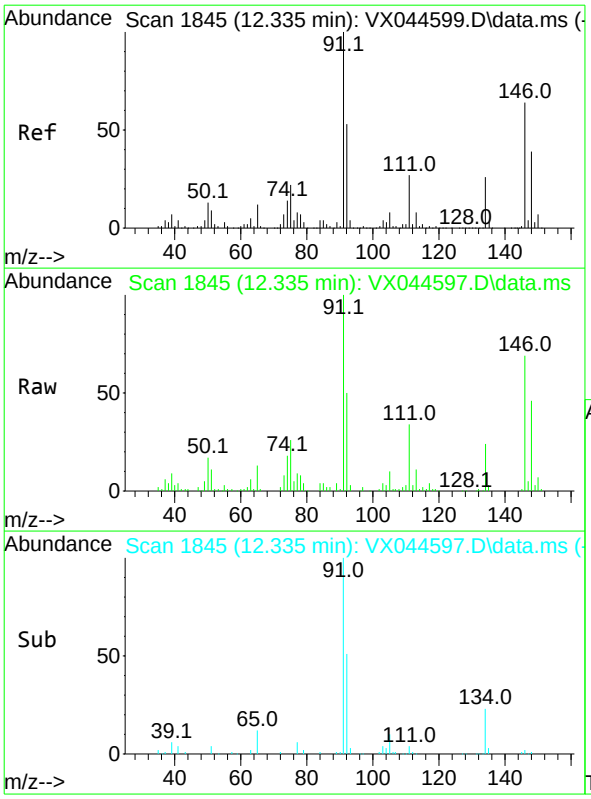


#90
Hexachloroethane
Concen: 4.255 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion:117 Resp: 5241

Ion	Ratio	Lower	Upper
117	100		
201	66.9	33.6	100.6

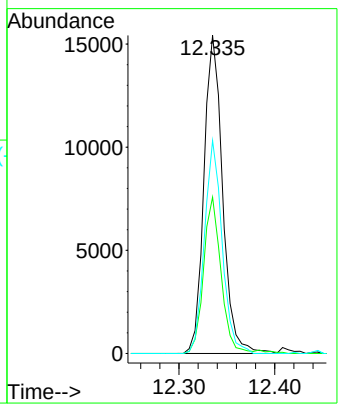




#91
1,2-Dichlorobenzene
Concen: 5.165 ug/l
RT: 12.335 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion:146 Resp: 20848

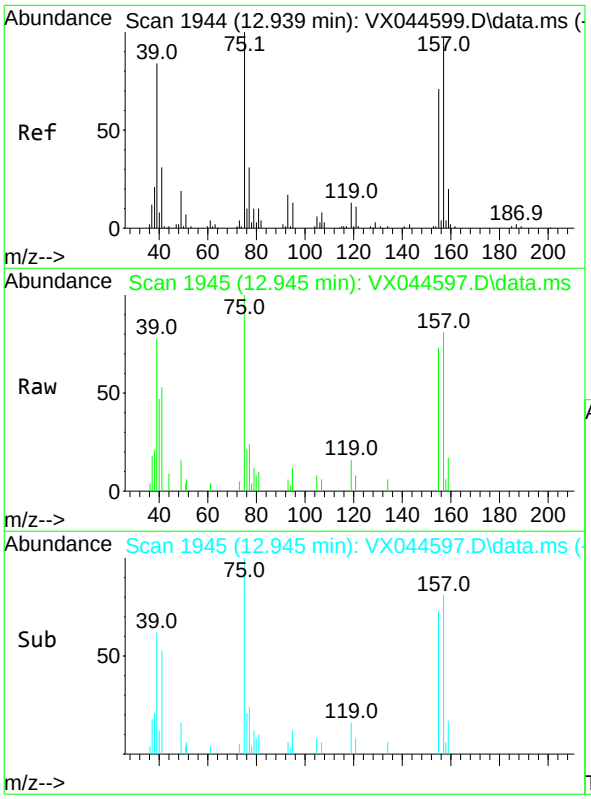
Ion	Ratio	Lower	Upper
146	100		
111	45.9	21.8	65.4
148	63.6	31.1	93.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

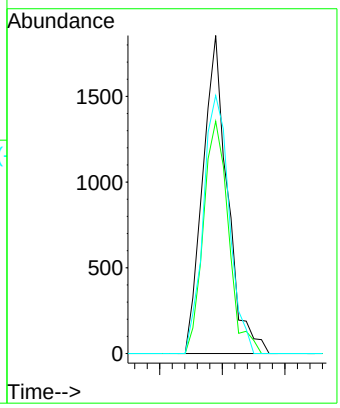
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

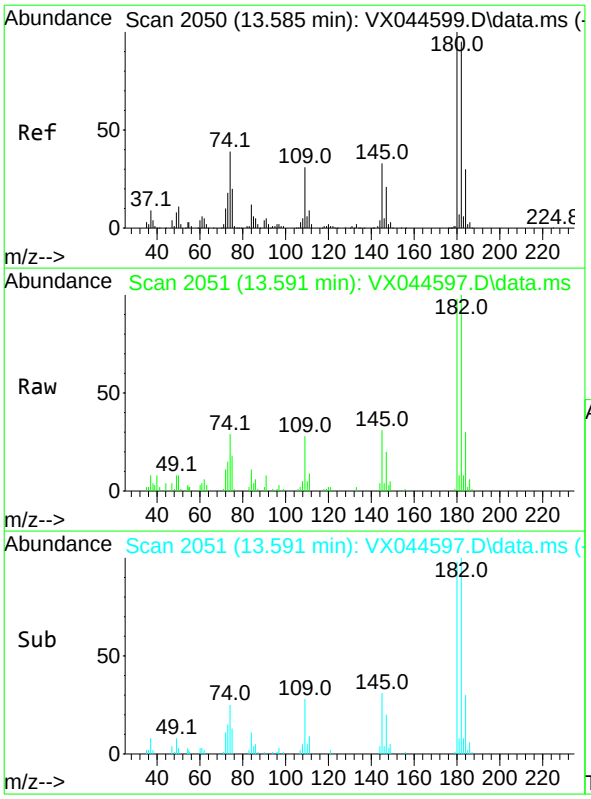


#92
1,2-Dibromo-3-Chloropropane
Concen: 4.591 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. 0.006 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 75 Resp: 2550

Ion	Ratio	Lower	Upper
75	100		
155	73.8	37.4	112.1
157	85.1	48.0	144.2

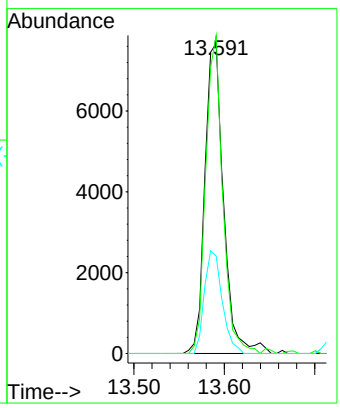




#93
1,2,4-Trichlorobenzene
Concen: 4.650 ug/l
RT: 13.591 min Scan# 20
Delta R.T. 0.006 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion:180 Resp: 11030

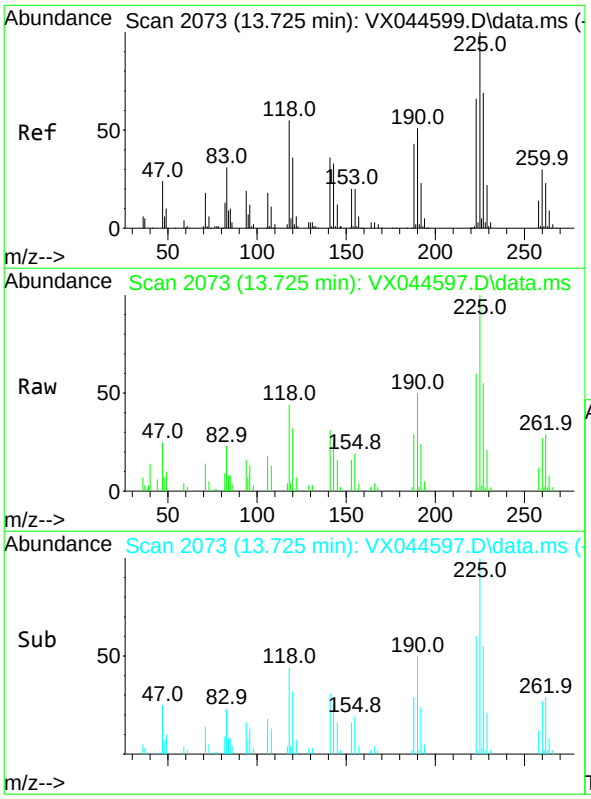
Ion	Ratio	Lower	Upper
180	100		
182	92.9	47.9	143.6
145	31.5	16.3	48.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

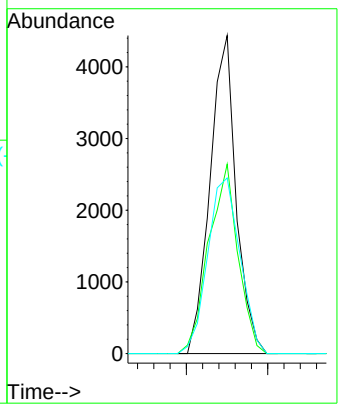
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

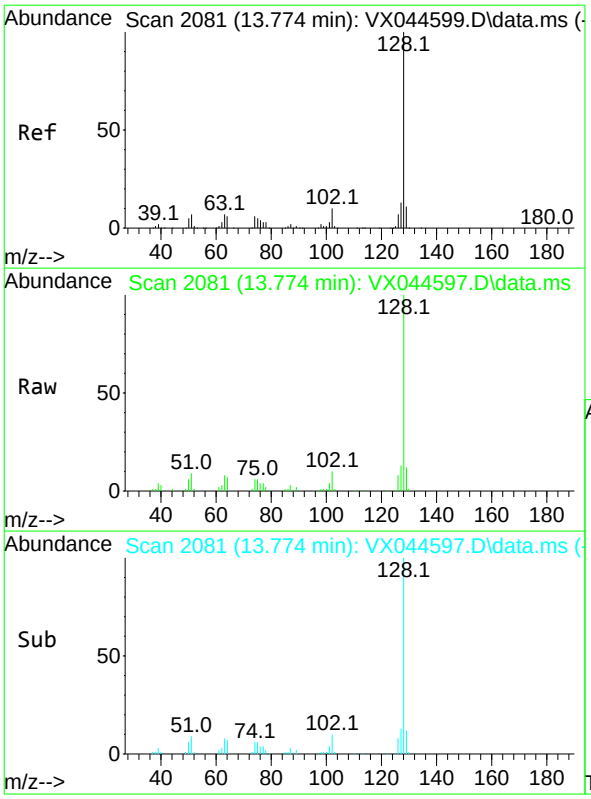


#94
Hexachlorobutadiene
Concen: 5.007 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion:225 Resp: 4946

Ion	Ratio	Lower	Upper
225	100		
223	66.4	31.6	94.8
227	68.4	31.9	95.9

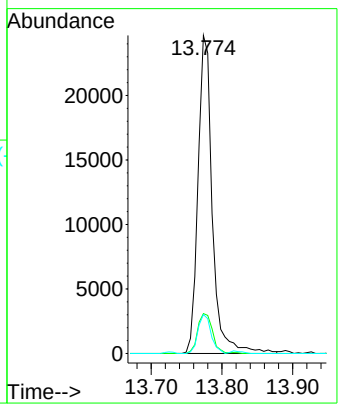




#95
Naphthalene
Concen: 4.533 ug/l
RT: 13.774 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion:128 Resp: 34693

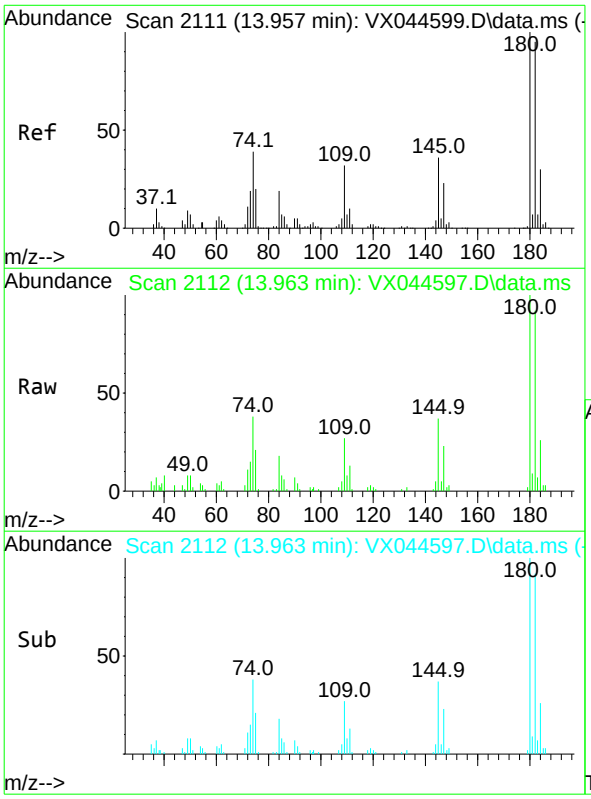
Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.5	15.7
129	11.2	8.6	13.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

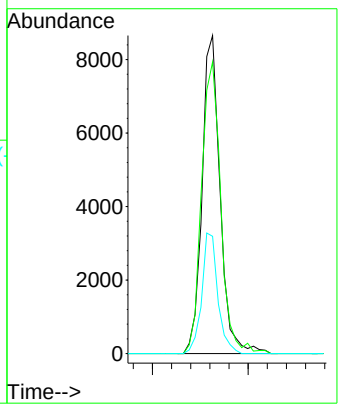
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025



#96
1,2,3-Trichlorobenzene
Concen: 4.667 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. 0.006 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion:180 Resp: 11316

Ion	Ratio	Lower	Upper
180	100		
182	97.6	47.6	142.9
145	33.8	17.6	52.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044598.D
Acq On : 07 Jan 2025 10:51
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 08 02:28:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 02:18:40 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	182852	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	312202	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	273147	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	125618	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	62203	21.098	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	42.200%#		
35) Dibromofluoromethane	5.379	113	43312	20.232	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	40.460%#		
50) Toluene-d8	8.647	98	151532	20.722	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	41.440%#		
62) 4-Bromofluorobenzene	11.079	95	51959	20.131	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	40.260%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	52176	19.721	ug/l	99
3) Chloromethane	1.294	50	53813	20.411	ug/l	95
4) Vinyl Chloride	1.374	62	50882	20.572	ug/l	100
5) Bromomethane	1.599	94	26588	20.753	ug/l	99
6) Chloroethane	1.666	64	27162	20.687	ug/l	100
7) Trichlorofluoromethane	1.873	101	72487	19.683	ug/l	98
8) Diethyl Ether	2.130	74	28020	21.533	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.319	101	42666	20.206	ug/l	99
10) Methyl Iodide	2.447	142	58125	19.741	ug/l	99
11) Tert butyl alcohol	2.995	59	35287	97.199	ug/l	99
12) 1,1-Dichloroethene	2.312	96	40189	19.647	ug/l	92
13) Acrolein	2.233	56	46887	97.681	ug/l	100
14) Allyl chloride	2.660	41	69790	20.514	ug/l	99
15) Acrylonitrile	3.062	53	109174	104.416	ug/l	99
16) Acetone	2.380	43	98646	106.158	ug/l	98
17) Carbon Disulfide	2.501	76	77403	18.299	ug/l	99
18) Methyl Acetate	2.703	43	55761	20.331	ug/l	98
19) Methyl tert-butyl Ether	3.111	73	143696	20.498	ug/l	97
20) Methylene Chloride	2.782	84	48372	20.404	ug/l	97
21) trans-1,2-Dichloroethene	3.087	96	42447	20.218	ug/l	94
22) Diisopropyl ether	3.757	45	148218	21.193	ug/l	96
23) Vinyl Acetate	3.715	43	611827	108.186	ug/l	100
24) 1,1-Dichloroethane	3.605	63	85657	21.020	ug/l	97
25) 2-Butanone	4.562	43	147205	109.752	ug/l	95
26) 2,2-Dichloropropane	4.464	77	72557	20.594	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	52269	20.418	ug/l	99
28) Bromochloromethane	4.891	49	40221	21.204	ug/l	96
29) Tetrahydrofuran	5.001	42	96792	105.382	ug/l	98
30) Chloroform	5.086	83	92017	20.946	ug/l	99
31) Cyclohexane	5.464	56	69453	20.758	ug/l	93
32) 1,1,1-Trichloroethane	5.379	97	76888	20.797	ug/l	99
36) 1,1-Dichloropropene	5.690	75	57525	20.780	ug/l	99
37) Ethyl Acetate	4.708	43	61814	21.845	ug/l	99
38) Carbon Tetrachloride	5.665	117	61261	19.945	ug/l	99
39) Methylcyclohexane	7.372	83	71421	20.220	ug/l	98
40) Benzene	6.031	78	182735	20.965	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044598.D
Acq On : 07 Jan 2025 10:51
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 08 02:28:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 02:18:40 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.916	41	33545	22.068	ug/l		98
42) 1,2-Dichloroethane	6.080	62	75362	22.109	ug/l		100
43) Isopropyl Acetate	6.342	43	99627	21.325	ug/l		100
44) Trichloroethene	7.116	130	44753	20.086	ug/l		99
45) 1,2-Dichloropropane	7.427	63	45374	21.352	ug/l		94
46) Dibromomethane	7.580	93	34533	20.895	ug/l		98
47) Bromodichloromethane	7.818	83	62867	20.903	ug/l		94
48) Methyl methacrylate	7.690	41	48354	21.700	ug/l		98
49) 1,4-Dioxane	7.665	88	14556	444.533	ug/l		94
51) 4-Methyl-2-Pentanone	8.573	43	303467	111.120	ug/l		100
52) Toluene	8.714	92	111872	21.272	ug/l		98
53) t-1,3-Dichloropropene	8.976	75	60752	21.133	ug/l		99
54) cis-1,3-Dichloropropene	8.360	75	66510	20.586	ug/l		95
55) 1,1,2-Trichloroethane	9.153	97	43622	21.158	ug/l		97
56) Ethyl methacrylate	9.116	69	63170	21.068	ug/l		98
57) 1,3-Dichloropropane	9.305	76	76059	21.969	ug/l		98
58) 2-Chloroethyl Vinyl ether	8.238	63	155083	104.333	ug/l		100
59) 2-Hexanone	9.433	43	216998	112.353	ug/l		99
60) Dibromochloromethane	9.518	129	42282	20.568	ug/l		99
61) 1,2-Dibromoethane	9.610	107	44770	21.501	ug/l		96
64) Tetrachloroethene	9.268	164	39569	20.489	ug/l		97
65) Chlorobenzene	10.079	112	118653	20.467	ug/l		98
66) 1,1,1,2-Tetrachloroethane	10.159	131	39956	20.752	ug/l		99
67) Ethyl Benzene	10.189	91	209710	21.066	ug/l		98
68) m/p-Xylenes	10.299	106	155810	42.593	ug/l		98
69) o-Xylene	10.640	106	76065	20.601	ug/l		99
70) Styrene	10.652	104	126293	21.385	ug/l		99
71) Bromoform	10.799	173	24563	19.617	ug/l	#	95
73) Isopropylbenzene	10.957	105	195554	21.012	ug/l		100
74) N-amyl acetate	10.841	43	79390	21.023	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.213	83	61645	20.550	ug/l		98
76) 1,2,3-Trichloropropane	11.238	75	52133m	20.703	ug/l		
77) Bromobenzene	11.195	156	45702	20.215	ug/l		100
78) n-propylbenzene	11.305	91	220954	21.078	ug/l		100
79) 2-Chlorotoluene	11.360	91	139531	20.541	ug/l		98
80) 1,3,5-Trimethylbenzene	11.451	105	164285	21.290	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	14902	18.014	ug/l		89
82) 4-Chlorotoluene	11.451	91	159459	20.867	ug/l		99
83) tert-Butylbenzene	11.713	119	155984	20.301	ug/l		95
84) 1,2,4-Trimethylbenzene	11.750	105	168552	21.745	ug/l		100
85) sec-Butylbenzene	11.890	105	196607	21.010	ug/l		100
86) p-Isopropyltoluene	12.006	119	164348	20.932	ug/l		100
87) 1,3-Dichlorobenzene	11.969	146	84583	20.681	ug/l		99
88) 1,4-Dichlorobenzene	12.036	146	83680	19.638	ug/l		97
89) n-Butylbenzene	12.329	91	138330	20.864	ug/l		99
90) Hexachloroethane	12.536	117	22825	18.096	ug/l		100
91) 1,2-Dichlorobenzene	12.335	146	83880	20.296	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.945	75	11101	19.520	ug/l		96
93) 1,2,4-Trichlorobenzene	13.585	180	47350	19.494	ug/l		98
94) Hexachlorobutadiene	13.719	225	19641	19.419	ug/l		97
95) Naphthalene	13.774	128	162161	20.691	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	49865	20.082	ug/l		100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044598.D
Acq On : 07 Jan 2025 10:51
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 08 02:28:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 02:18:40 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

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

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

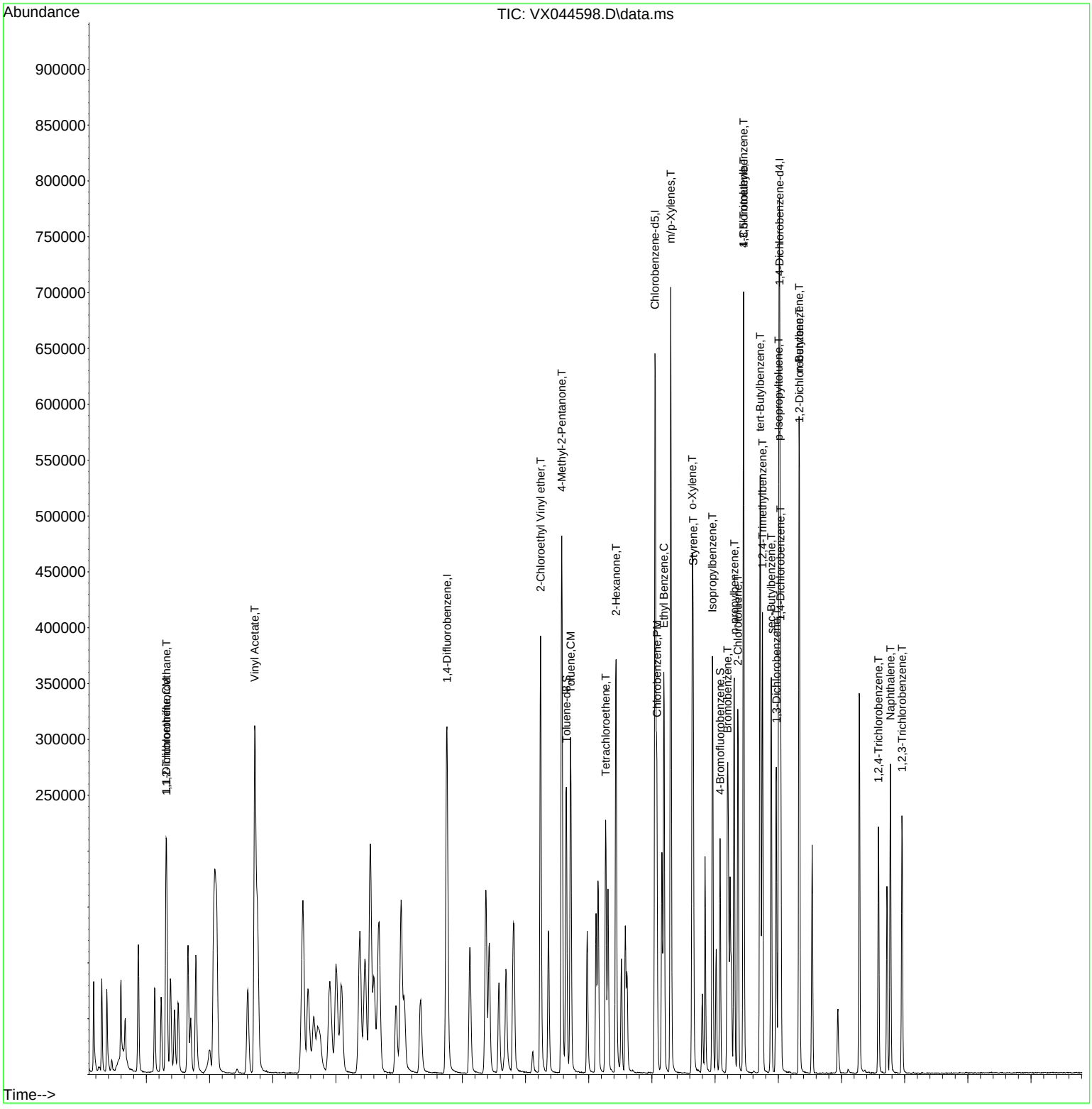
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044598.D
Acq On : 07 Jan 2025 10:51
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

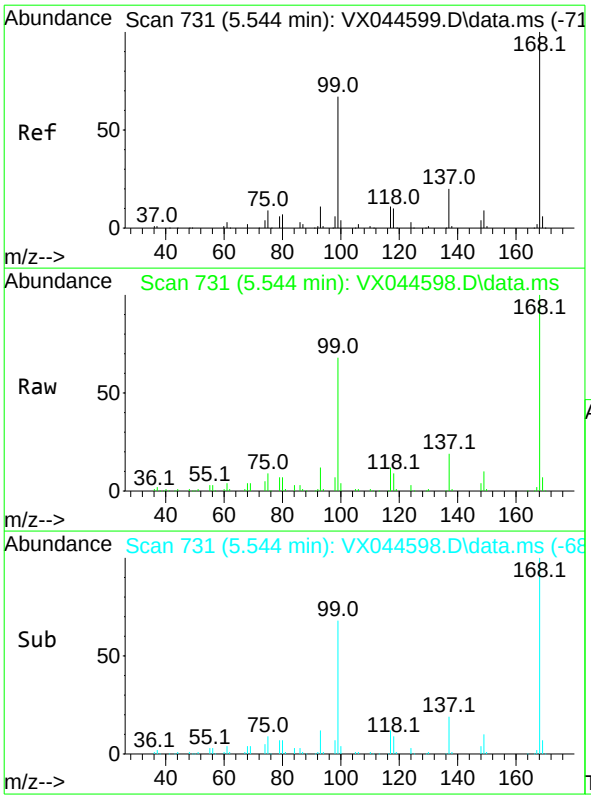
Quant Time: Jan 08 02:28:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 02:18:40 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

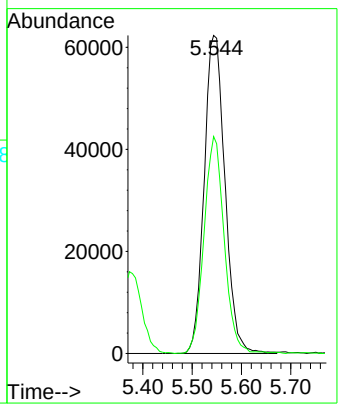




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 73
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion:168 Resp: 182852

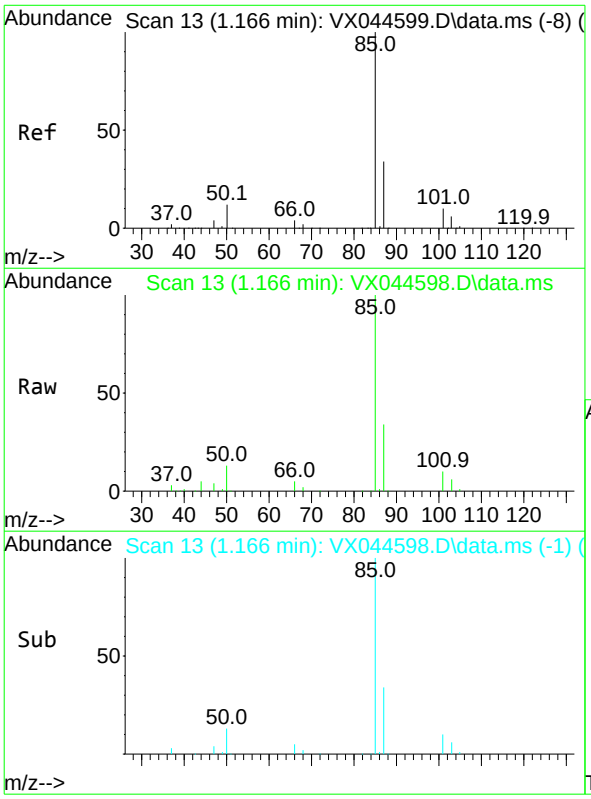
Ion	Ratio	Lower	Upper
168	100		
99	68.1	53.5	80.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

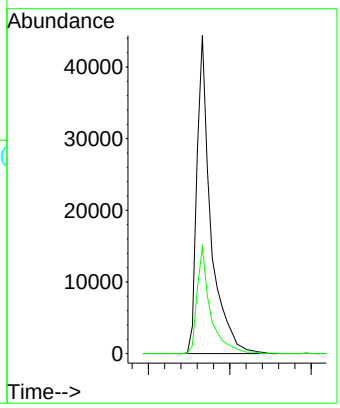
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

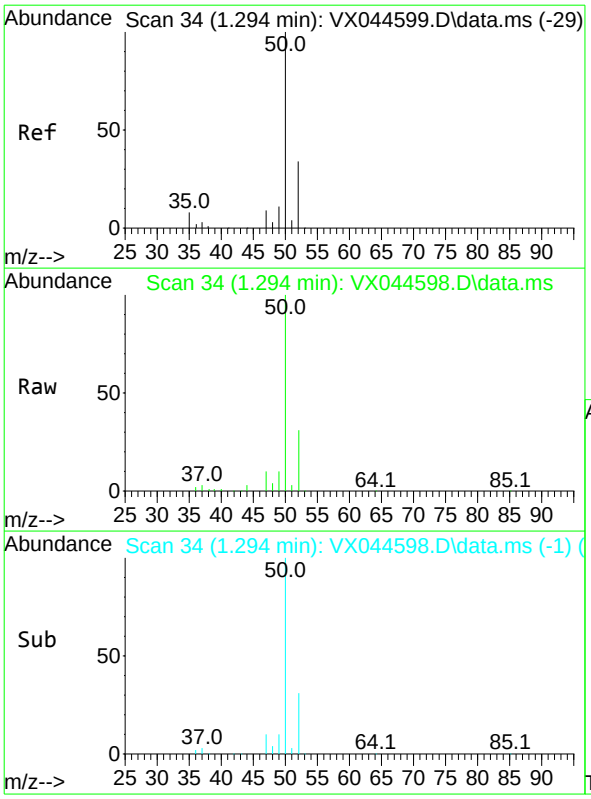


#2
Dichlorodifluoromethane
Concen: 19.721 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 85 Resp: 52176

Ion	Ratio	Lower	Upper
85	100		
87	33.5	17.2	51.5

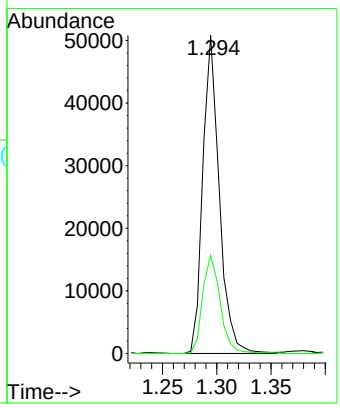




#3
Chloromethane
Concen: 20.411 ug/l
RT: 1.294 min Scan# 34
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 50 Resp: 53813

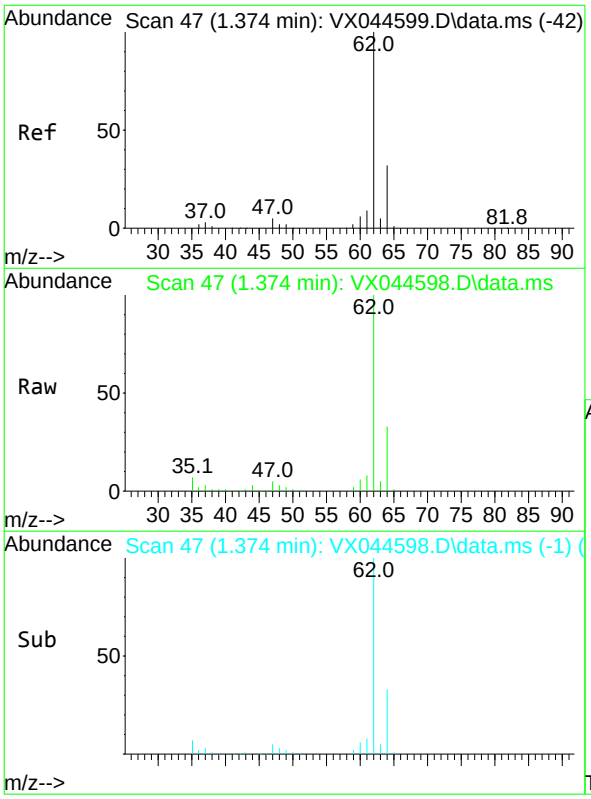
Ion	Ratio	Lower	Upper
50	100		
52	30.9	27.0	40.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

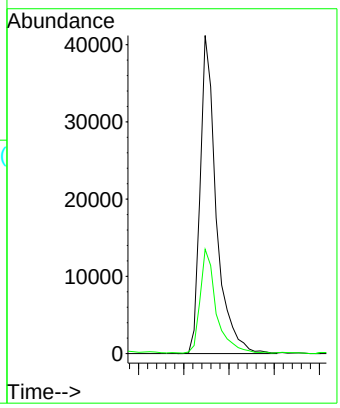
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

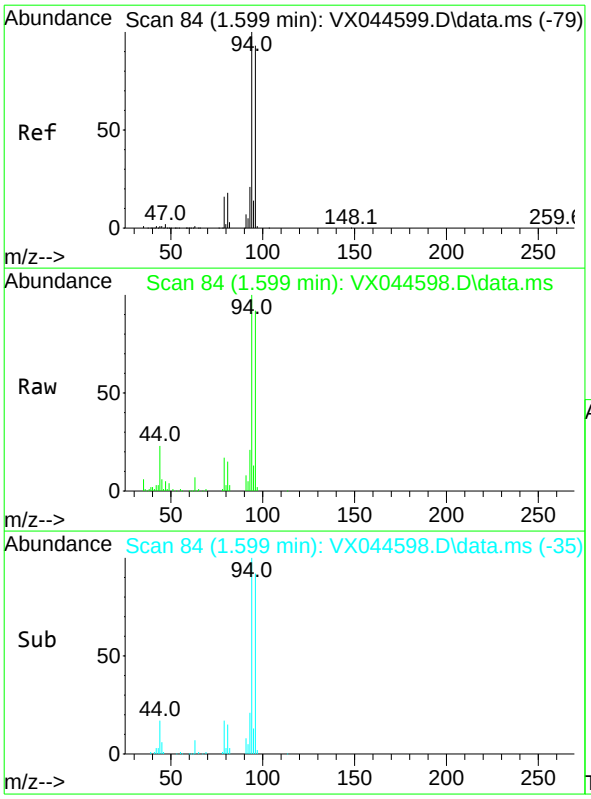


#4
Vinyl Chloride
Concen: 20.572 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 62 Resp: 50882

Ion	Ratio	Lower	Upper
62	100		
64	32.6	26.0	39.0

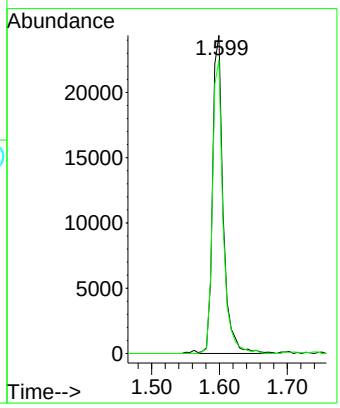




#5
Bromomethane
Concen: 20.753 ug/l
RT: 1.599 min Scan# 84
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 94 Resp: 26588

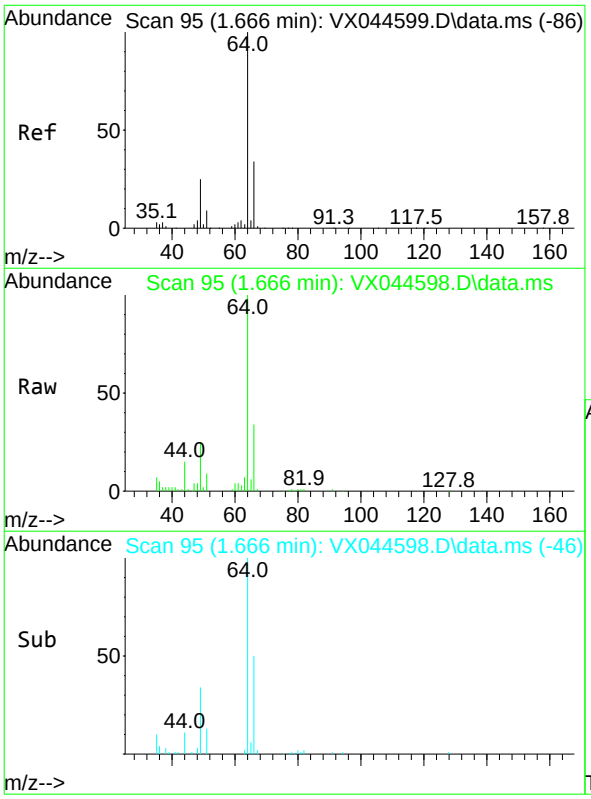
Ion	Ratio	Lower	Upper
94	100		
96	92.2	74.6	112.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

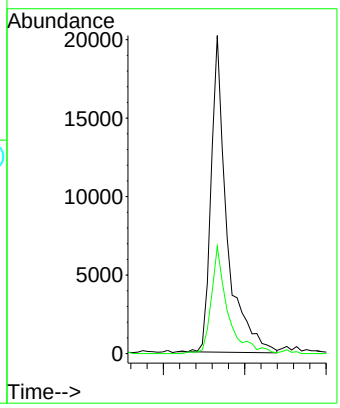
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

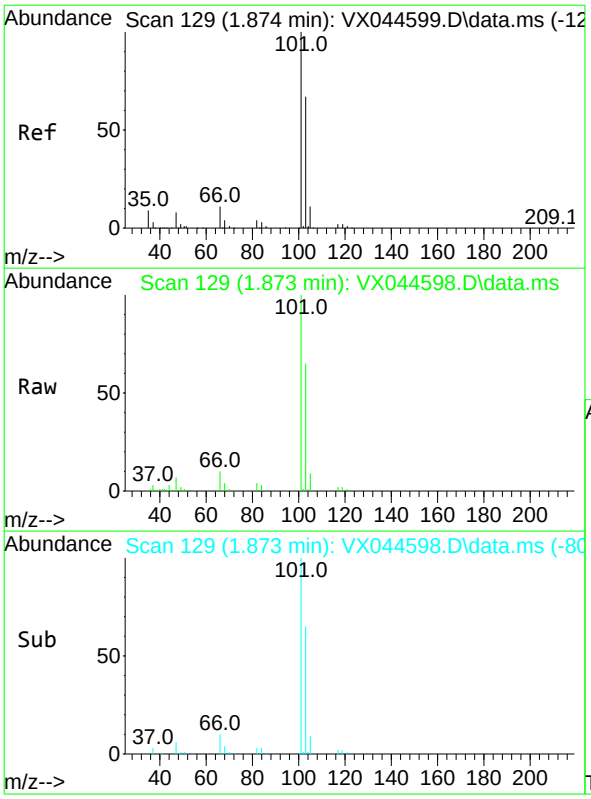


#6
Chloroethane
Concen: 20.687 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 64 Resp: 27162

Ion	Ratio	Lower	Upper
64	100		
66	33.9	27.3	40.9

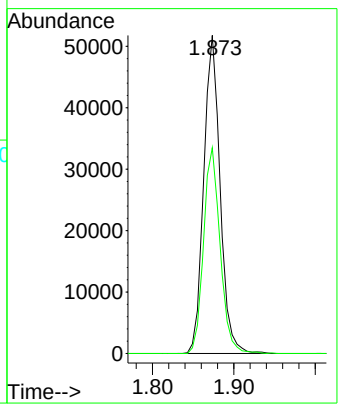




#7
Trichlorofluoromethane
Concen: 19.683 ug/l
RT: 1.873 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion:101 Resp: 72487

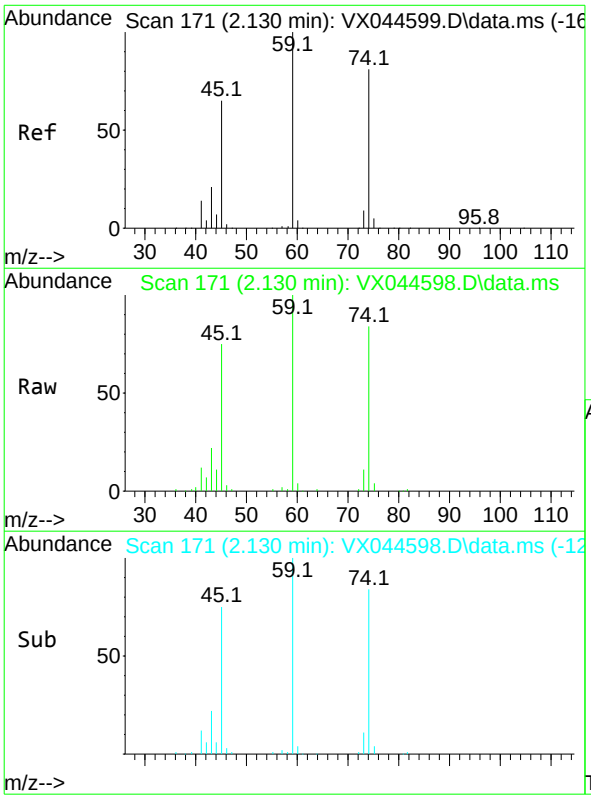
Ion	Ratio	Lower	Upper
101	100		
103	64.7	53.3	79.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

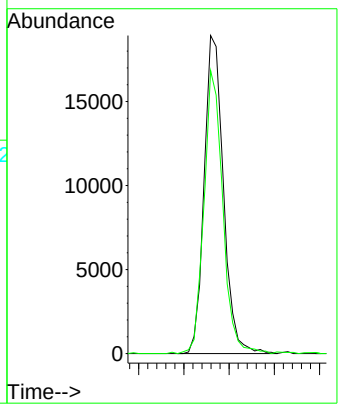
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

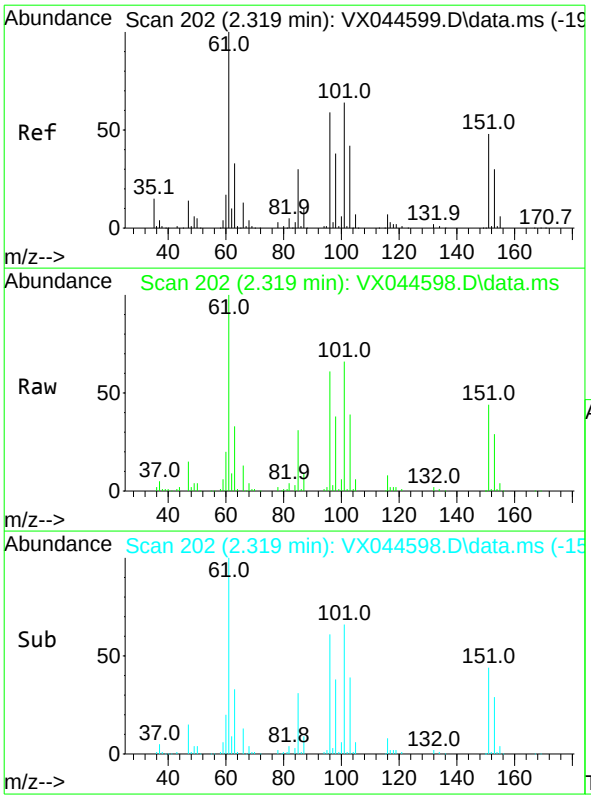


#8
Diethyl Ether
Concen: 21.533 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 74 Resp: 28020

Ion	Ratio	Lower	Upper
74	100		
45	86.8	41.7	125.1

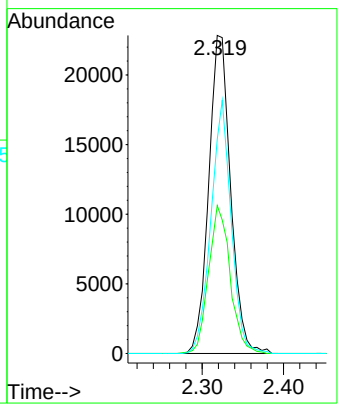




#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.206 ug/l
RT: 2.319 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion:101 Resp: 42666

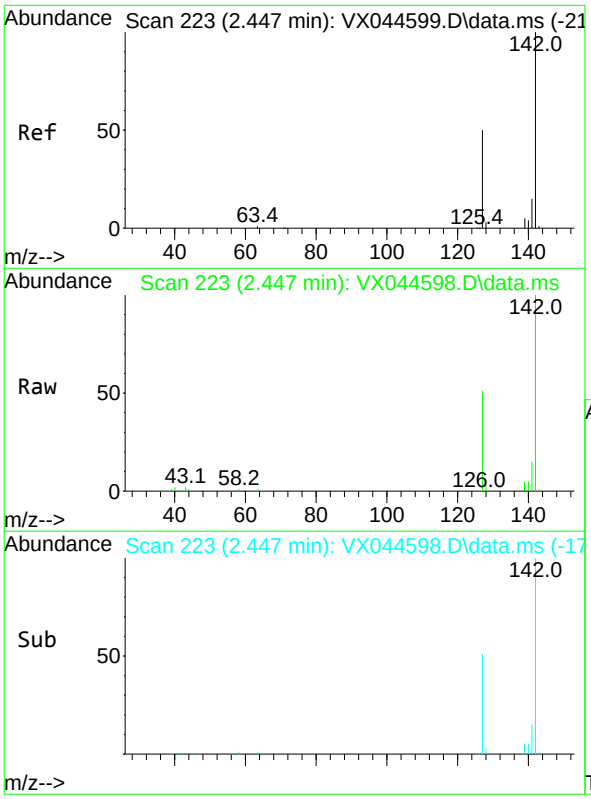
Ion	Ratio	Lower	Upper
101	100		
85	45.9	36.5	54.7
151	73.7	58.6	87.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

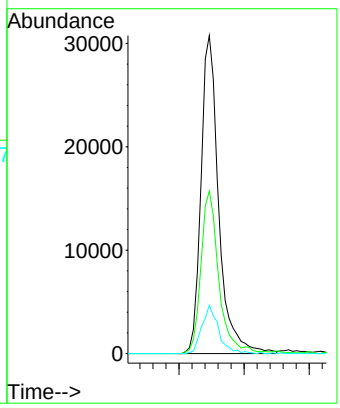
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

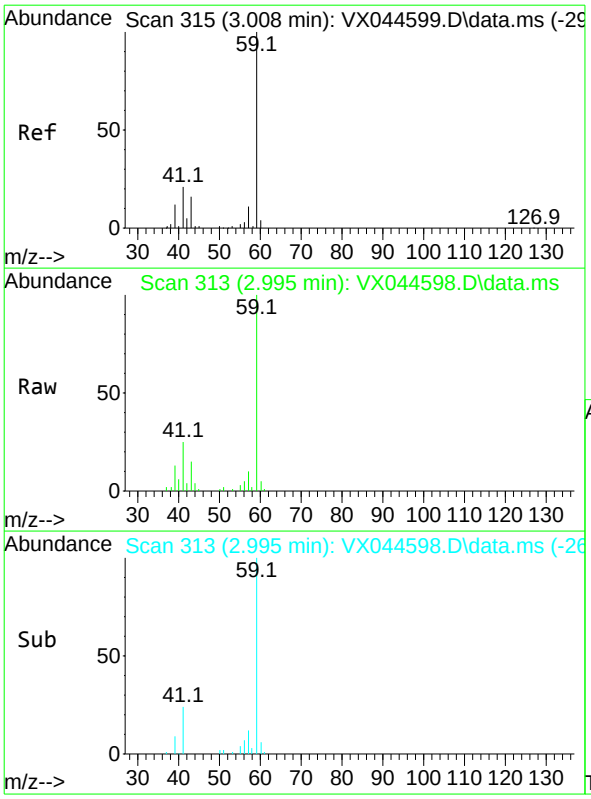


#10
Methyl Iodide
Concen: 19.741 ug/l
RT: 2.447 min Scan# 223
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion:142 Resp: 58125

Ion	Ratio	Lower	Upper
142	100		
127	51.6	41.9	62.9
141	14.4	11.8	17.6

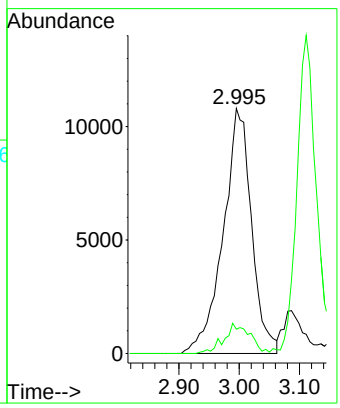




#11
Tert butyl alcohol
Concen: 97.199 ug/l
RT: 2.995 min Scan# 31
Delta R.T. -0.012 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 59 Resp: 35287

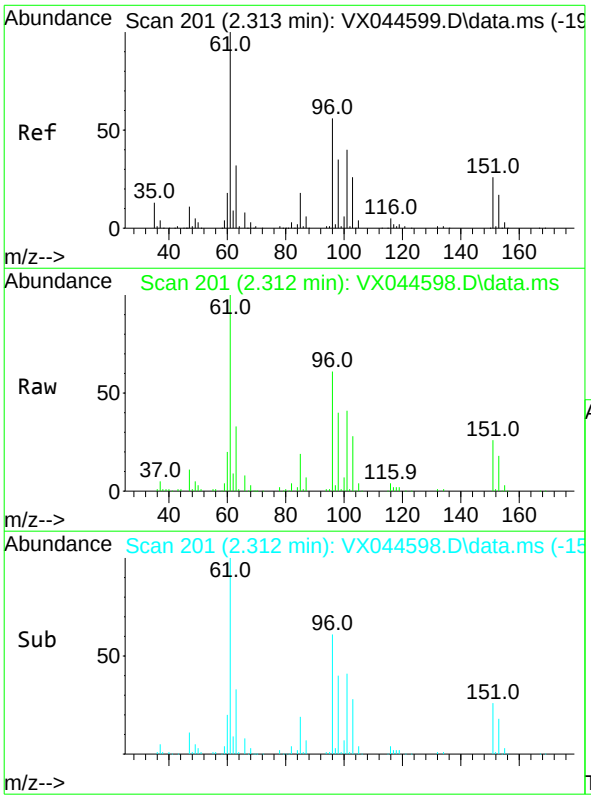
Ion	Ratio	Lower	Upper
59	100		
57	11.2	8.6	12.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

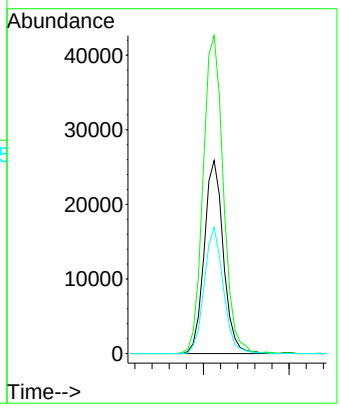
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

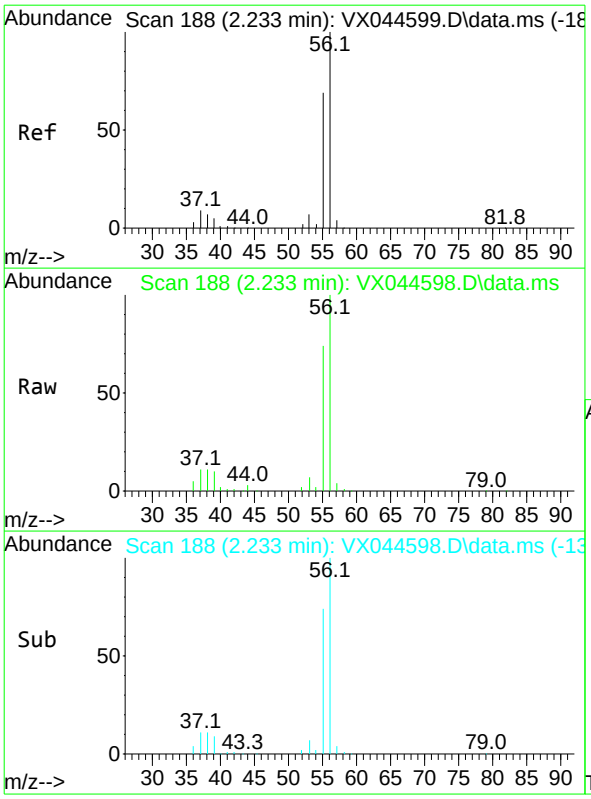


#12
1,1-Dichloroethene
Concen: 19.647 ug/l
RT: 2.312 min Scan# 201
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 96 Resp: 40189

Ion	Ratio	Lower	Upper
96	100		
61	164.7	143.3	214.9
98	65.4	50.6	76.0

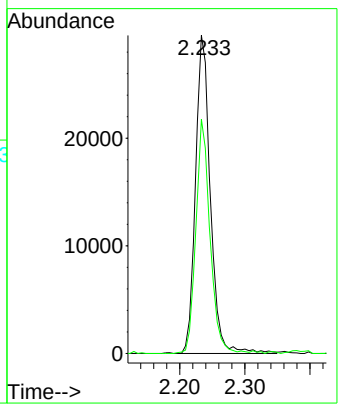




#13
Acrolein
Concen: 97.681 ug/l
RT: 2.233 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 56 Resp: 46887

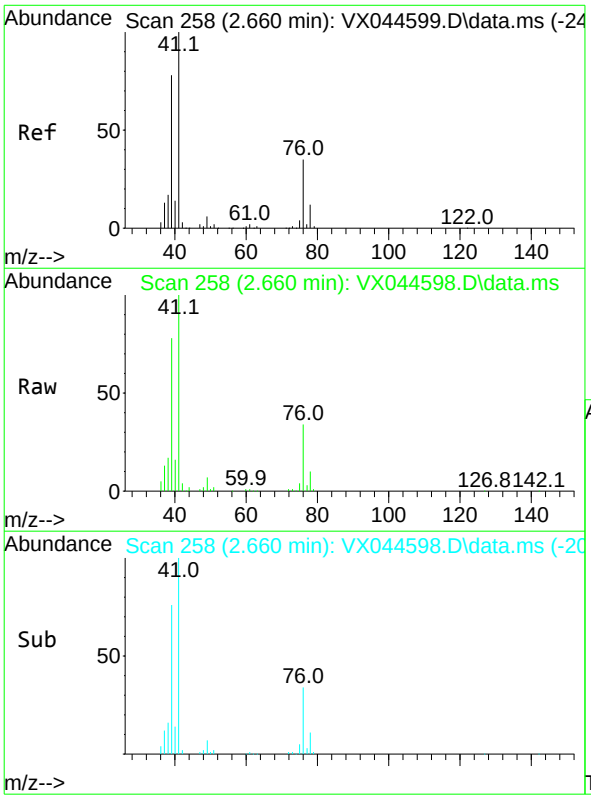
Ion	Ratio	Lower	Upper
56	100		
55	70.1	55.8	83.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

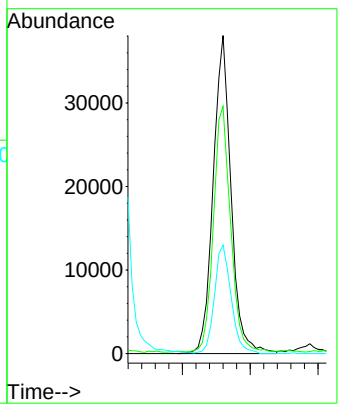
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

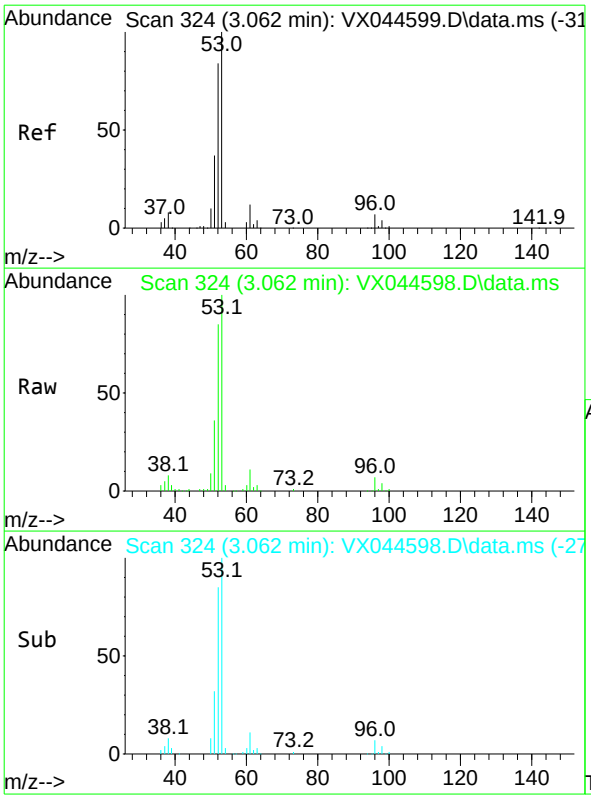


#14
Allyl chloride
Concen: 20.514 ug/l
RT: 2.660 min Scan# 258
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 41 Resp: 69790

Ion	Ratio	Lower	Upper
41	100		
39	73.9	60.2	90.2
76	31.8	25.9	38.9

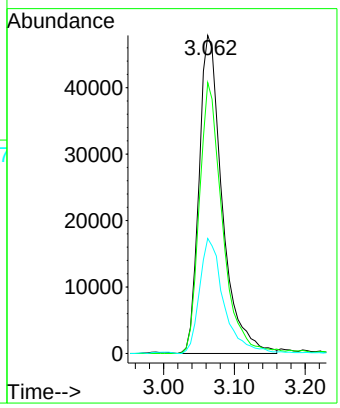




#15
Acrylonitrile
Concen: 104.416 ug/l
RT: 3.062 min Scan# 32
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 53 Resp: 109174

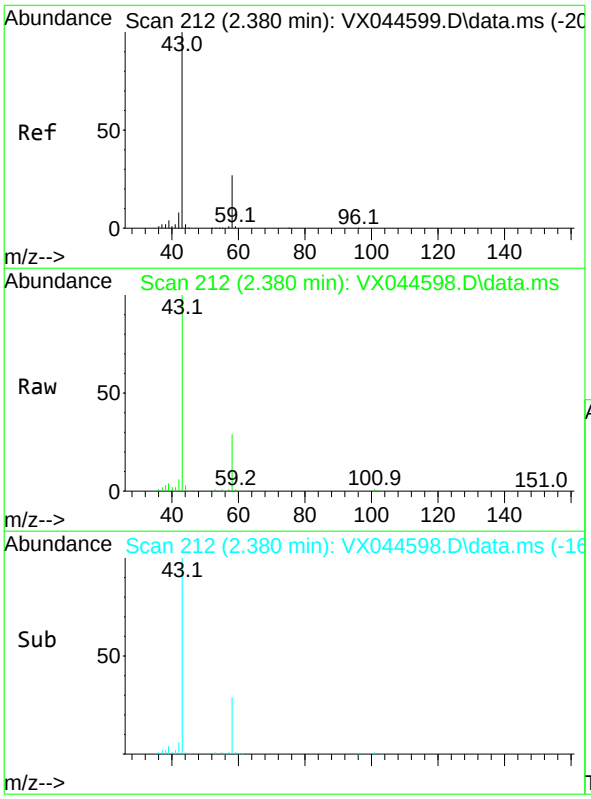
Ion	Ratio	Lower	Upper
53	100		
52	84.3	67.0	100.6
51	37.8	29.4	44.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

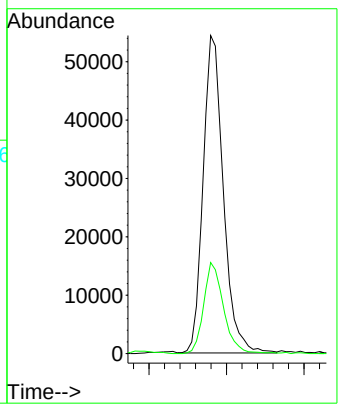
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

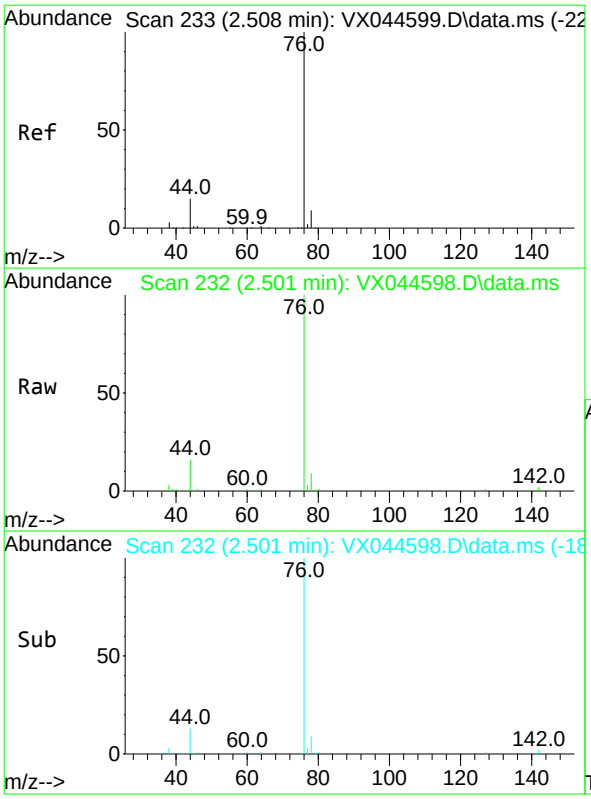


#16
Acetone
Concen: 106.158 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 43 Resp: 98646

Ion	Ratio	Lower	Upper
43	100		
58	28.7	22.0	33.0

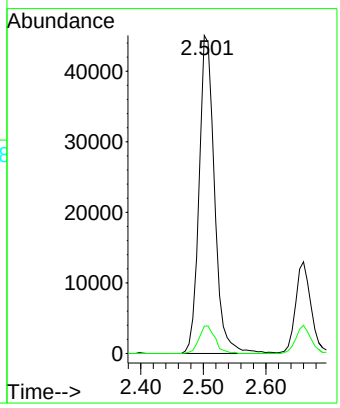




#17
Carbon Disulfide
Concen: 18.299 ug/l
RT: 2.501 min Scan# 23
Delta R.T. -0.006 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 76 Resp: 77403

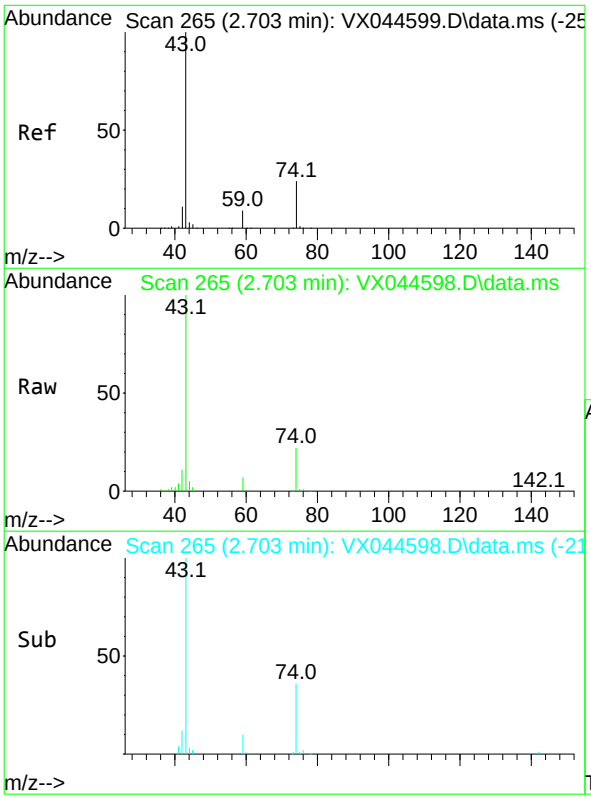
Ion	Ratio	Lower	Upper
76	100		
78	8.6	7.1	10.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

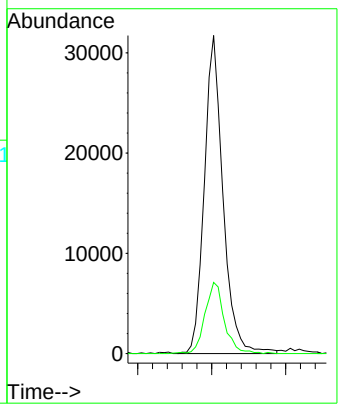
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

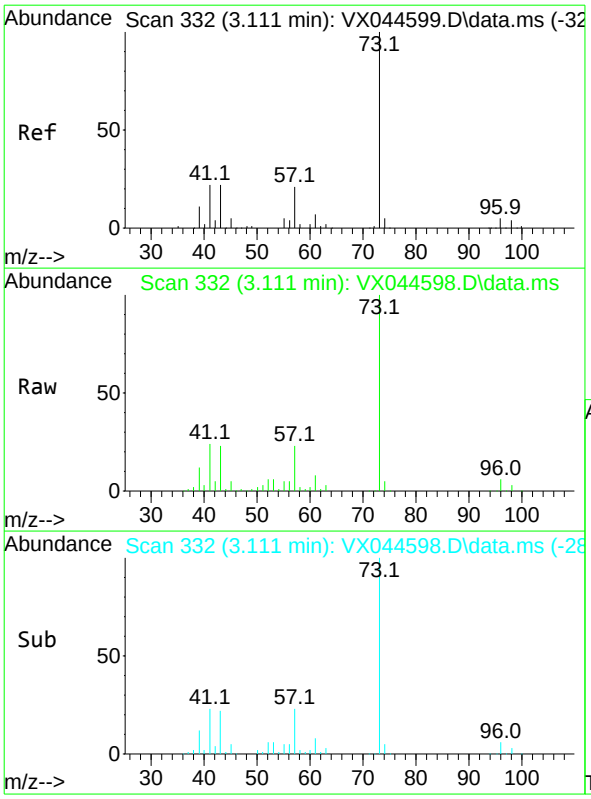


#18
Methyl Acetate
Concen: 20.331 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 43 Resp: 55761

Ion	Ratio	Lower	Upper
43	100		
74	23.1	19.3	28.9

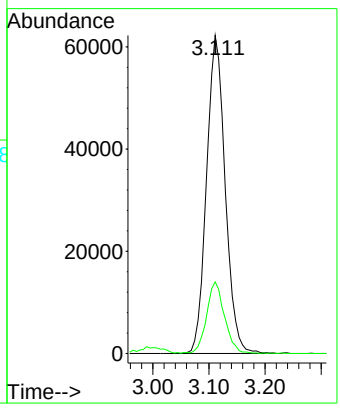




#19
Methyl tert-butyl Ether
Concen: 20.498 ug/l
RT: 3.111 min Scan# 33
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 73 Resp: 143696

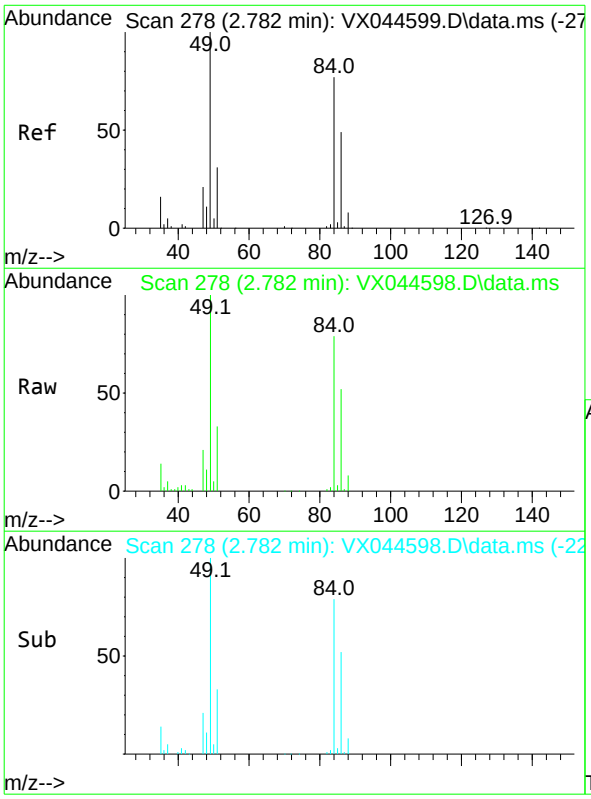
Ion	Ratio	Lower	Upper
73	100		
57	22.5	17.0	25.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

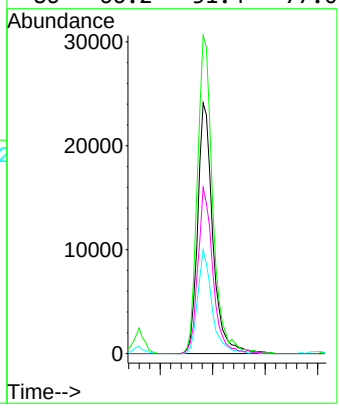
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

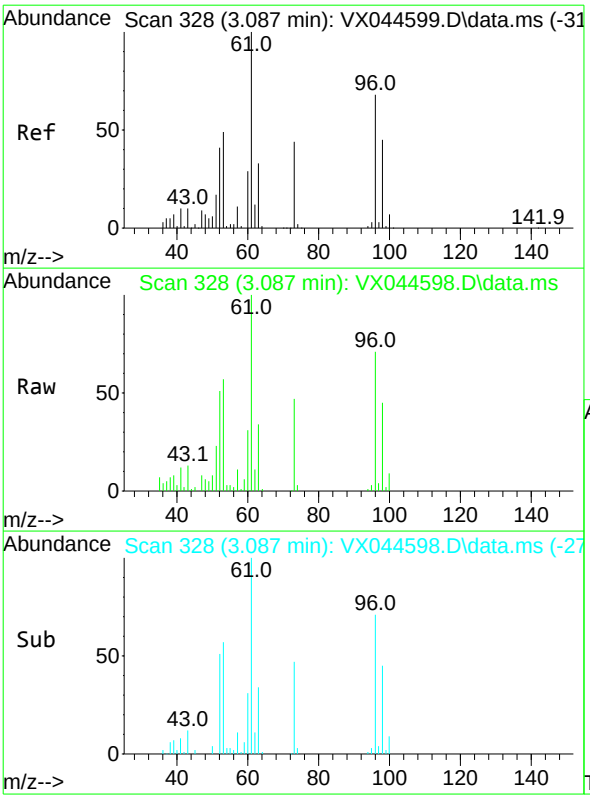


#20
Methylene Chloride
Concen: 20.404 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 84 Resp: 48372

Ion	Ratio	Lower	Upper
84	100		
49	126.9	104.4	156.6
51	41.4	32.0	48.0
86	66.2	51.4	77.0

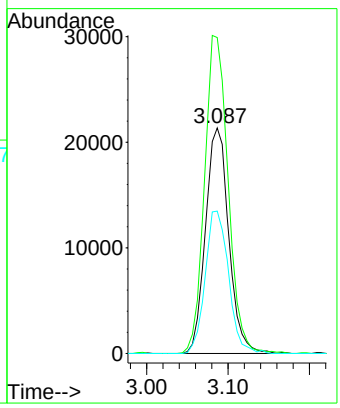




#21
trans-1,2-Dichloroethene
Concen: 20.218 ug/l
RT: 3.087 min Scan# 32
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 96 Resp: 42447

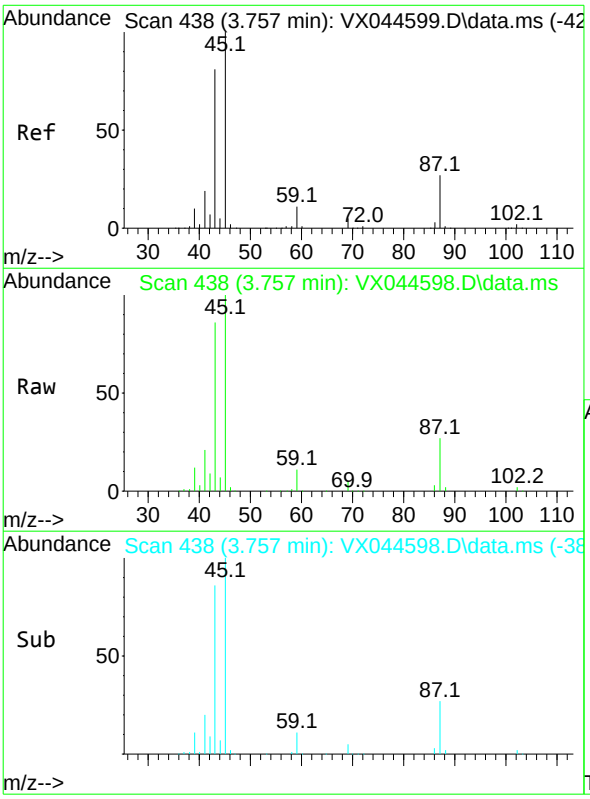
Ion	Ratio	Lower	Upper
96	100		
61	140.1	118.5	177.7
98	63.1	53.4	80.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

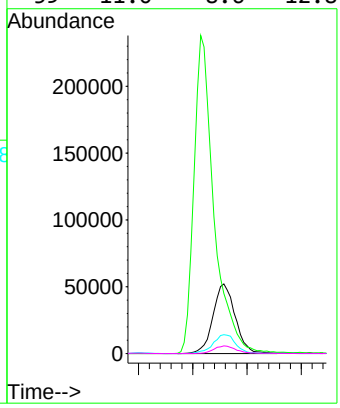
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

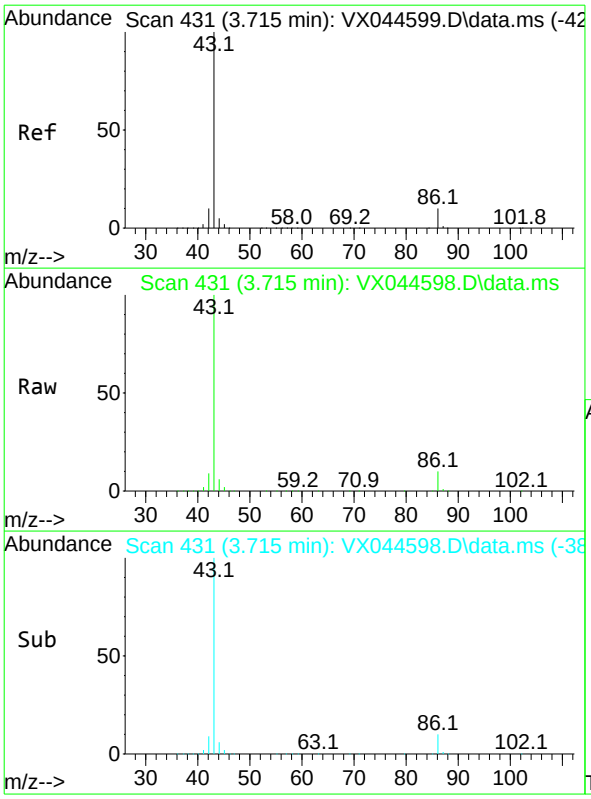


#22
Diisopropyl ether
Concen: 21.193 ug/l
RT: 3.757 min Scan# 438
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 45 Resp: 148218

Ion	Ratio	Lower	Upper
45	100		
43	85.8	64.6	97.0
87	27.1	21.8	32.8
59	11.0	8.6	12.8

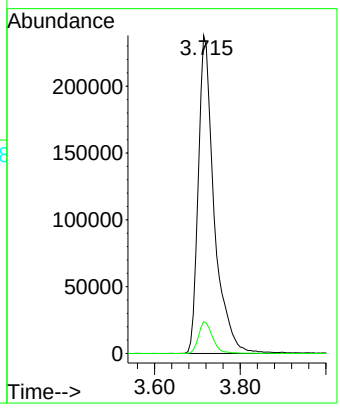




#23
Vinyl Acetate
Concen: 108.186 ug/l
RT: 3.715 min Scan# 43
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 43 Resp: 611827

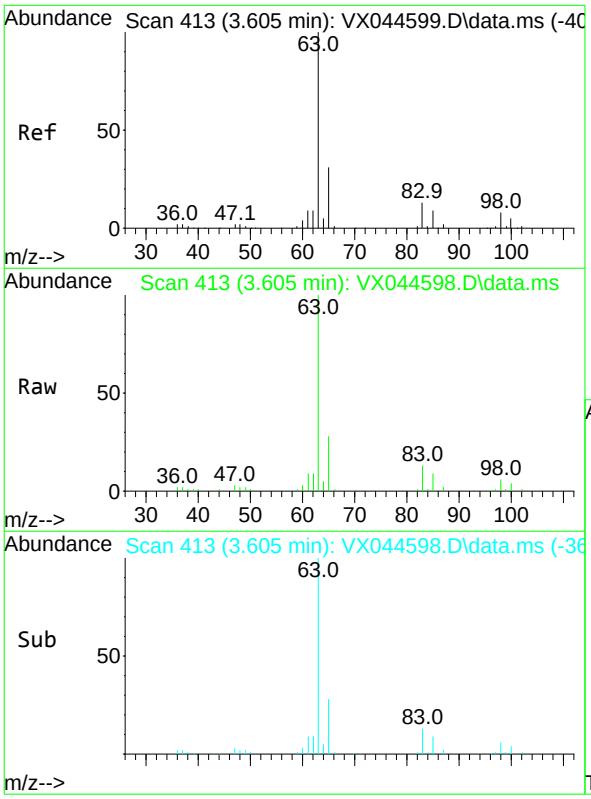
Ion	Ratio	Lower	Upper
43	100		
86	10.0	8.1	12.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

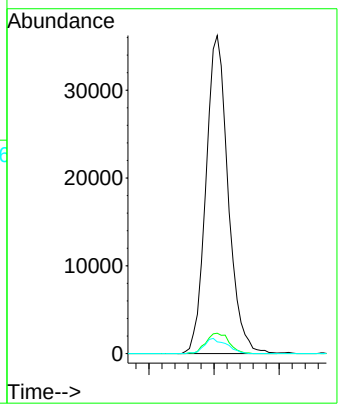
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

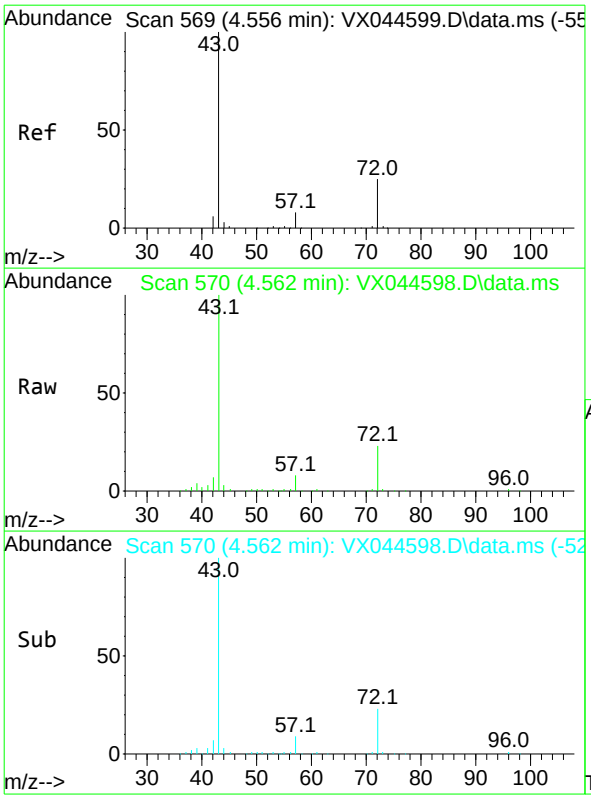


#24
1,1-Dichloroethane
Concen: 21.020 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 63 Resp: 85657

Ion	Ratio	Lower	Upper
63	100		
98	6.4	3.8	11.4
100	3.7	2.4	7.2

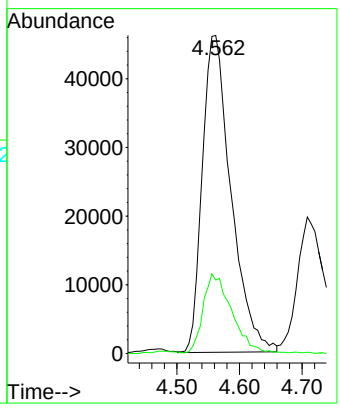




#25
2-Butanone
Concen: 109.752 ug/l
RT: 4.562 min Scan# 57
Delta R.T. 0.006 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 43 Resp: 147205

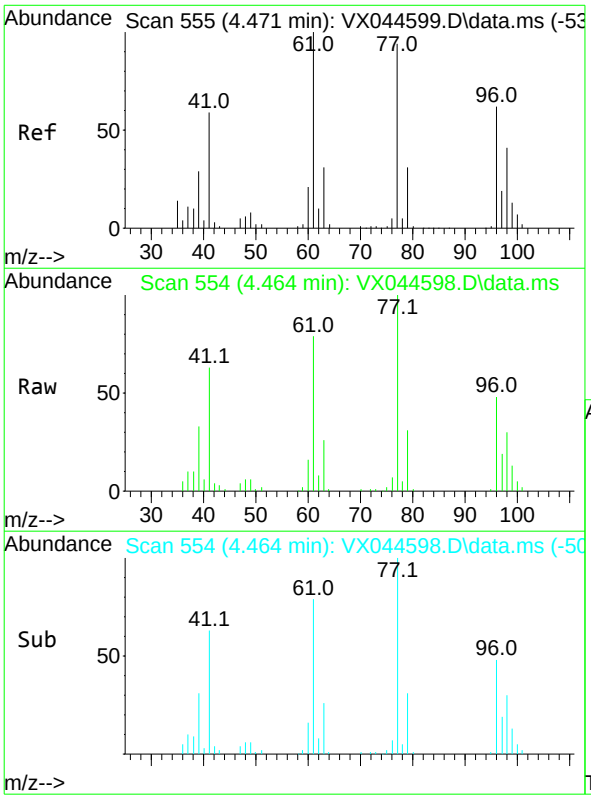
Ion	Ratio	Lower	Upper
43	100		
72	22.8	20.2	30.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

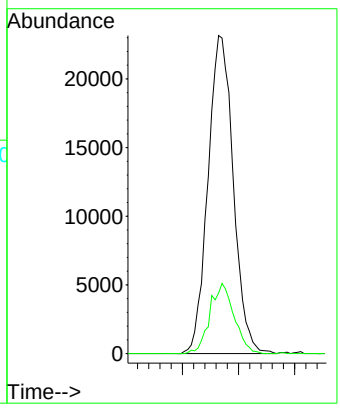
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

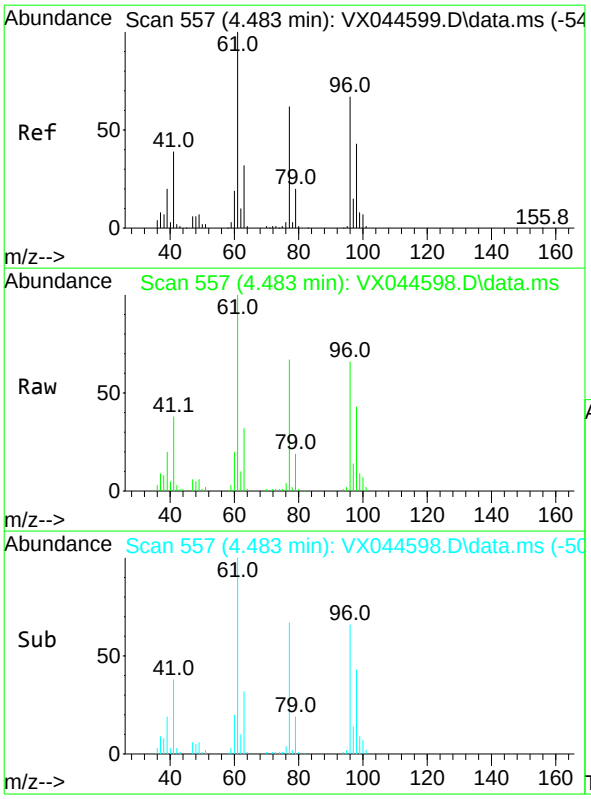


#26
2,2-Dichloropropane
Concen: 20.594 ug/l
RT: 4.464 min Scan# 554
Delta R.T. -0.006 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 77 Resp: 72557

Ion	Ratio	Lower	Upper
77	100		
97	21.1	10.7	32.1

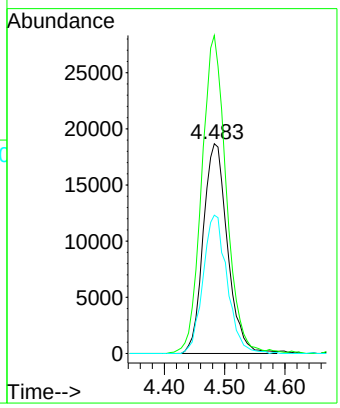




#27
cis-1,2-Dichloroethene
Concen: 20.418 ug/l
RT: 4.483 min Scan# 55
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 96 Resp: 52269

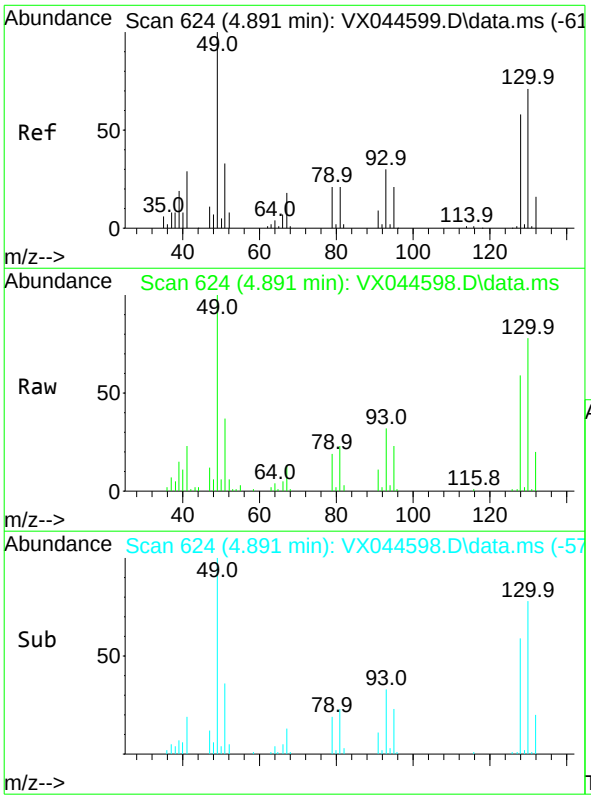
Ion	Ratio	Lower	Upper
96	100		
61	152.7	0.0	302.8
98	65.6	0.0	130.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

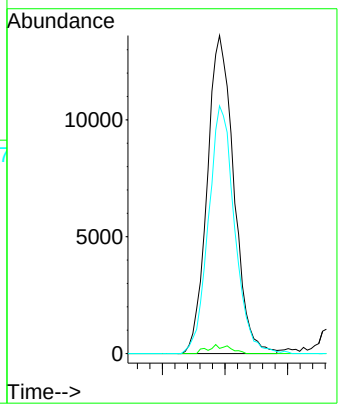
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

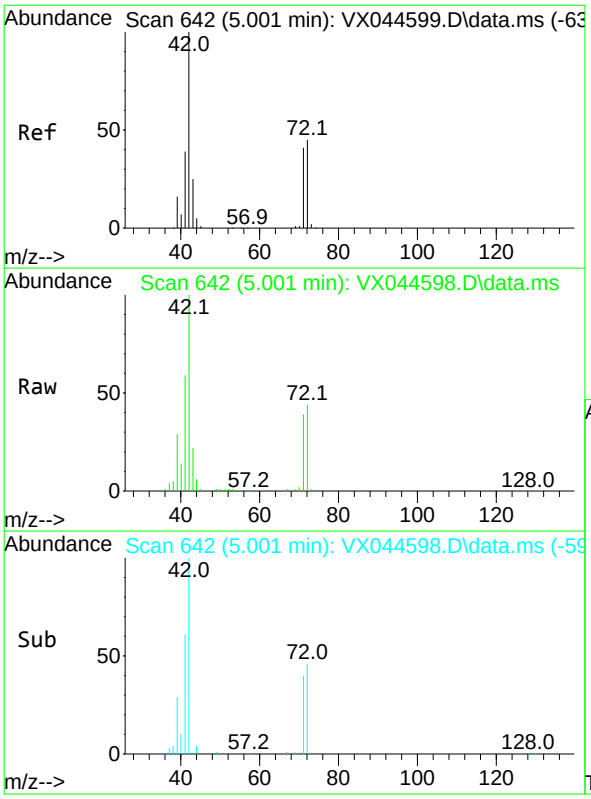


#28
Bromochloromethane
Concen: 21.204 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 49 Resp: 40221

Ion	Ratio	Lower	Upper
49	100		
129	2.3	0.0	4.2
130	76.6	58.8	88.2

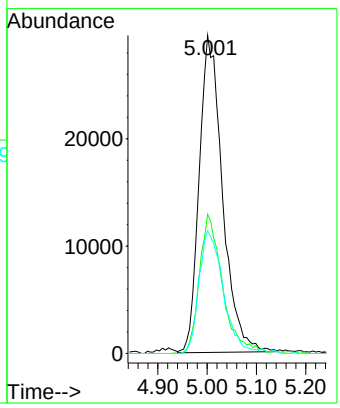




#29
Tetrahydrofuran
Concen: 105.382 ug/l
RT: 5.001 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 42 Resp: 96792

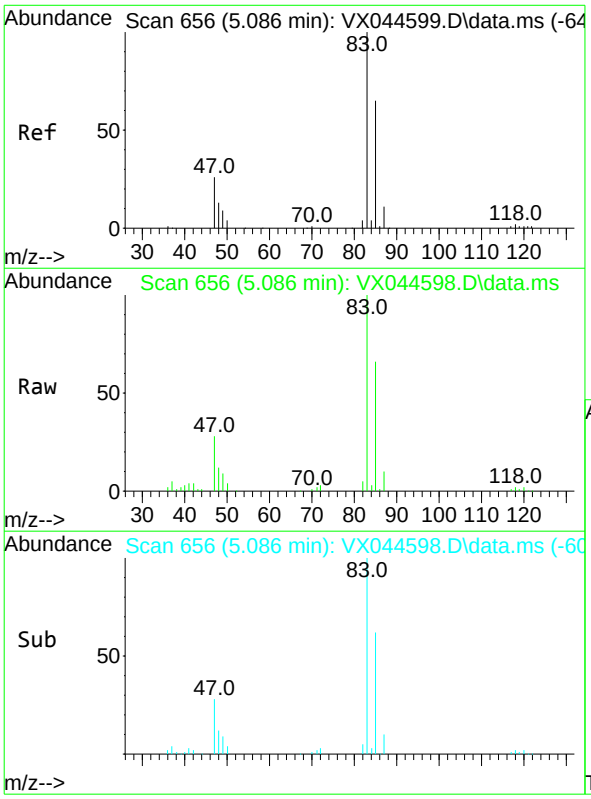
Ion	Ratio	Lower	Upper
42	100		
72	43.3	36.1	54.1
71	40.4	33.0	49.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

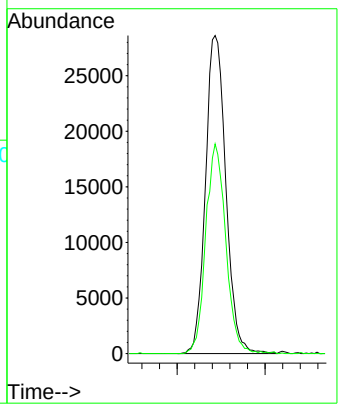
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

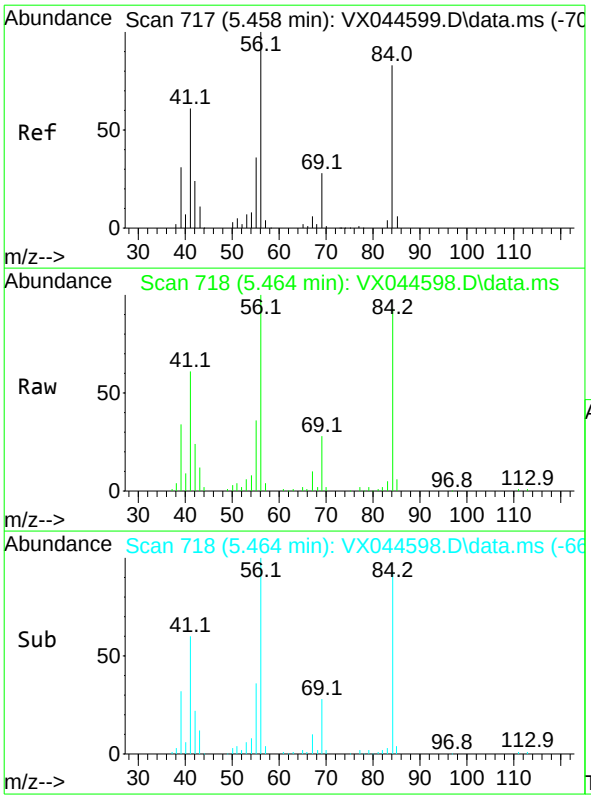


#30
Chloroform
Concen: 20.946 ug/l
RT: 5.086 min Scan# 656
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 83 Resp: 92017

Ion	Ratio	Lower	Upper
83	100		
85	65.9	52.3	78.5

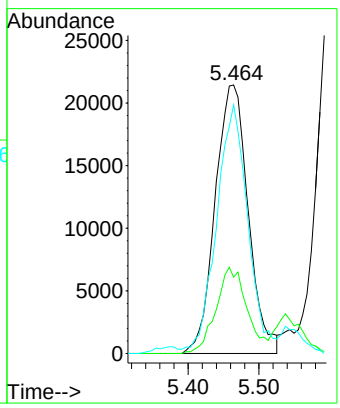




#31
Cyclohexane
Concen: 20.758 ug/l
RT: 5.464 min Scan# 71
Delta R.T. 0.006 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 56 Resp: 69453

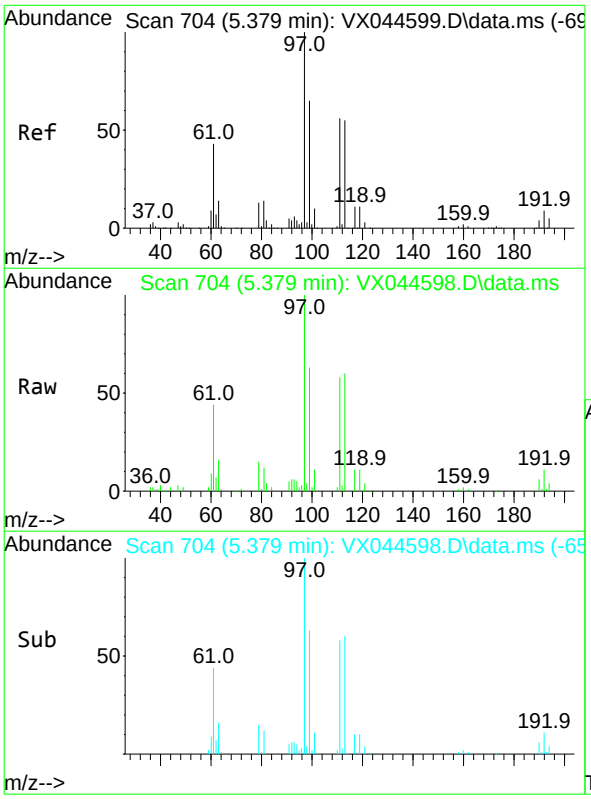
Ion	Ratio	Lower	Upper
56	100		
69	28.4	22.2	33.4
84	90.9	66.6	100.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

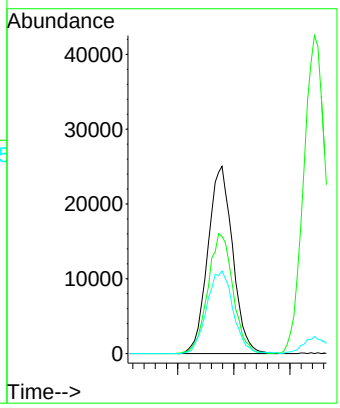
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

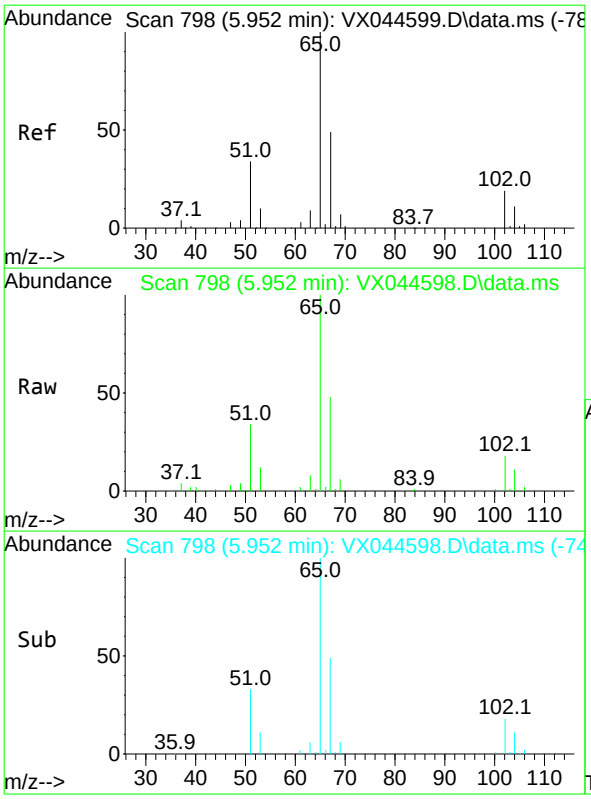


#32
1,1,1-Trichloroethane
Concen: 20.797 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 97 Resp: 76888

Ion	Ratio	Lower	Upper
97	100		
99	64.6	52.1	78.1
61	47.0	36.8	55.2

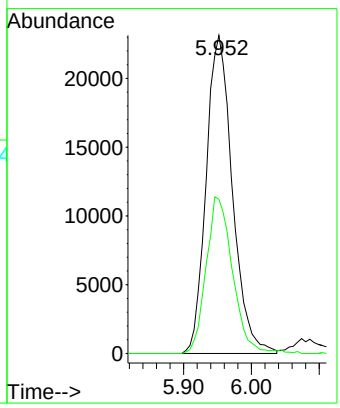




#33
1,2-Dichloroethane-d4
Concen: 21.098 ug/l
RT: 5.952 min Scan# 79
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 65 Resp: 62203

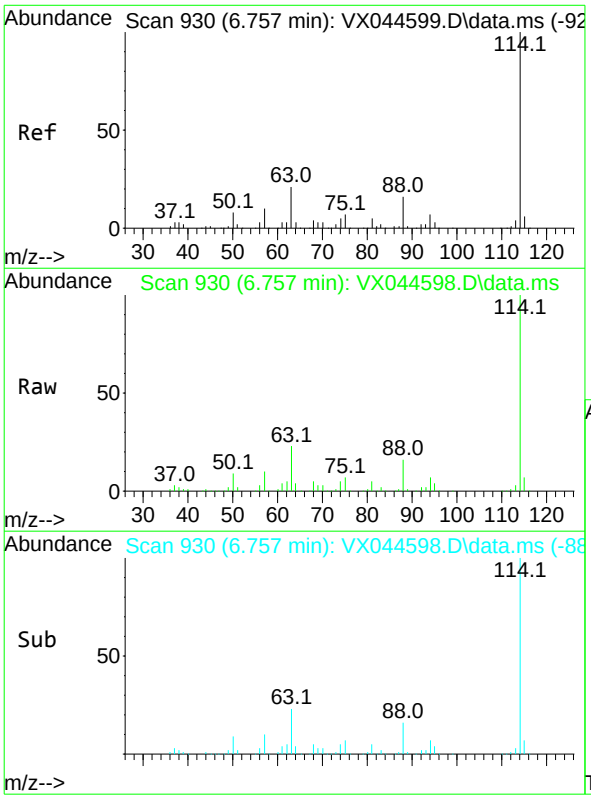
Ion	Ratio	Lower	Upper
65	100		
67	49.7	0.0	99.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

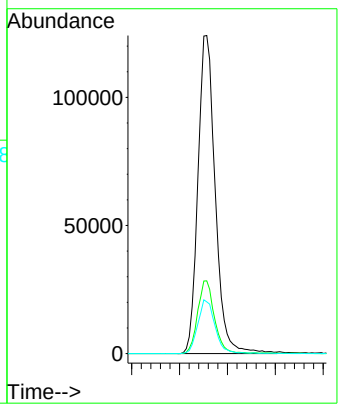
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

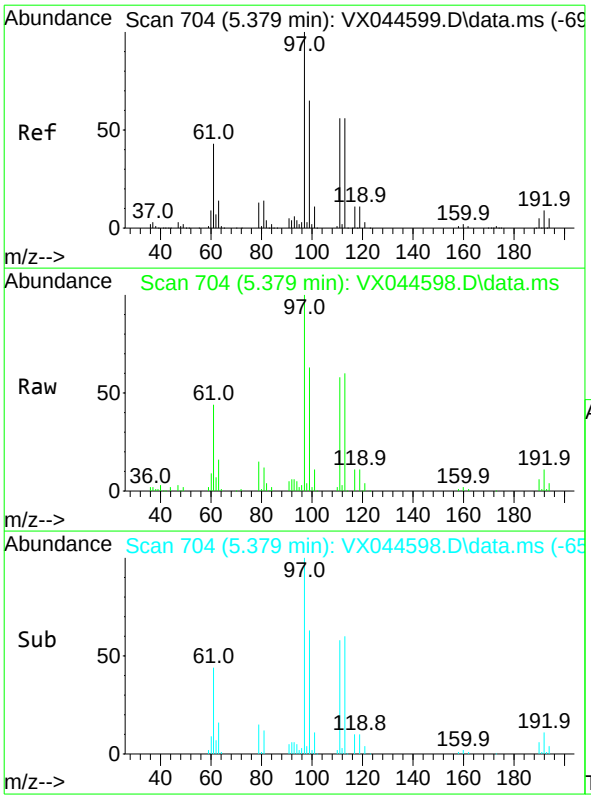


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion:114 Resp: 312202

Ion	Ratio	Lower	Upper
114	100		
63	22.9	0.0	42.6
88	16.3	0.0	32.6

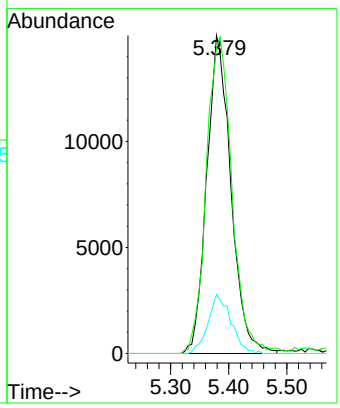




#35
Dibromofluoromethane
Concen: 20.232 ug/l
RT: 5.379 min Scan# 70
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion:113 Resp: 43312

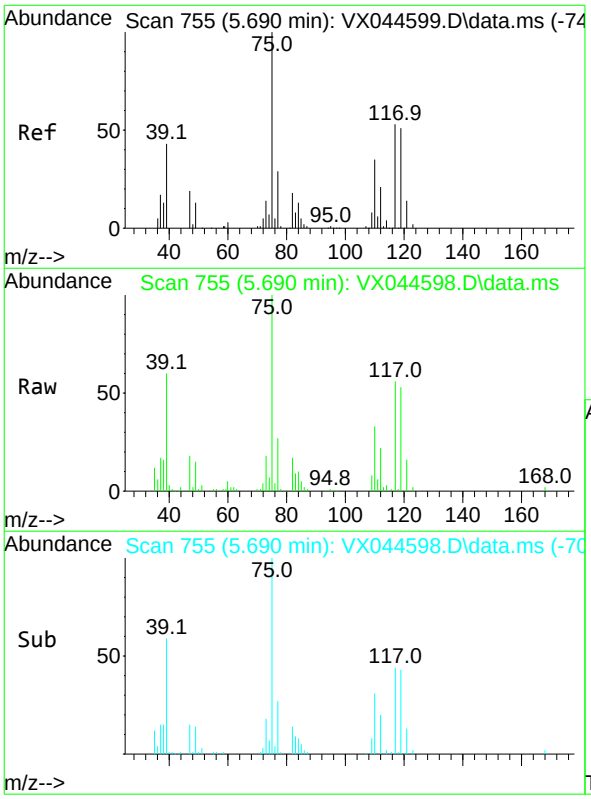
Ion	Ratio	Lower	Upper
113	100		
111	105.2	83.3	124.9
192	17.7	14.3	21.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

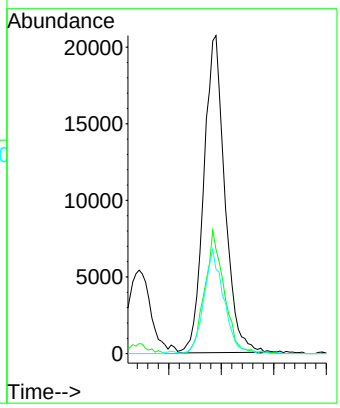
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

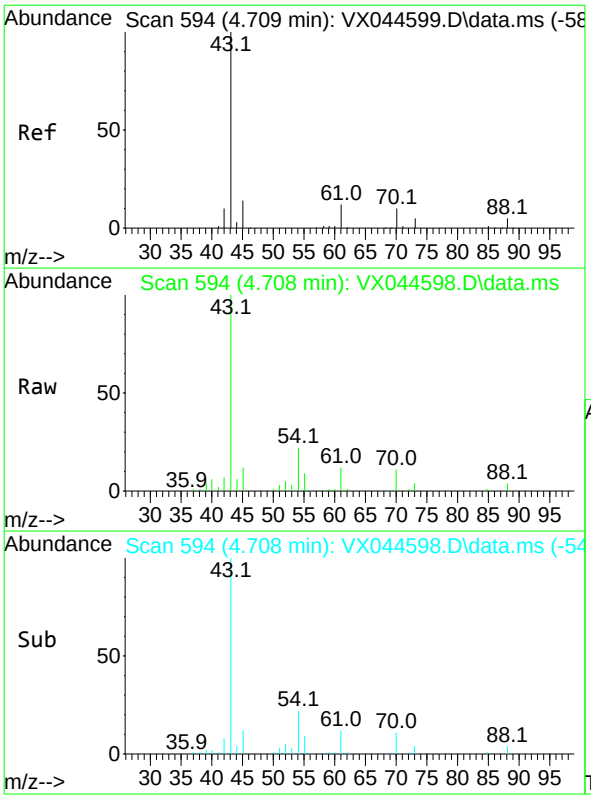


#36
1,1-Dichloropropene
Concen: 20.780 ug/l
RT: 5.690 min Scan# 755
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 75 Resp: 57525

Ion	Ratio	Lower	Upper
75	100		
110	35.5	17.3	51.9
77	31.1	24.7	37.1

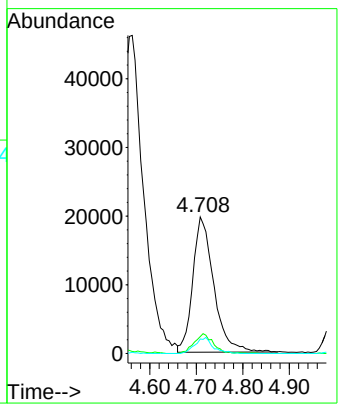




#37
Ethyl Acetate
Concen: 21.845 ug/l
RT: 4.708 min Scan# 59
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 43 Resp: 61814

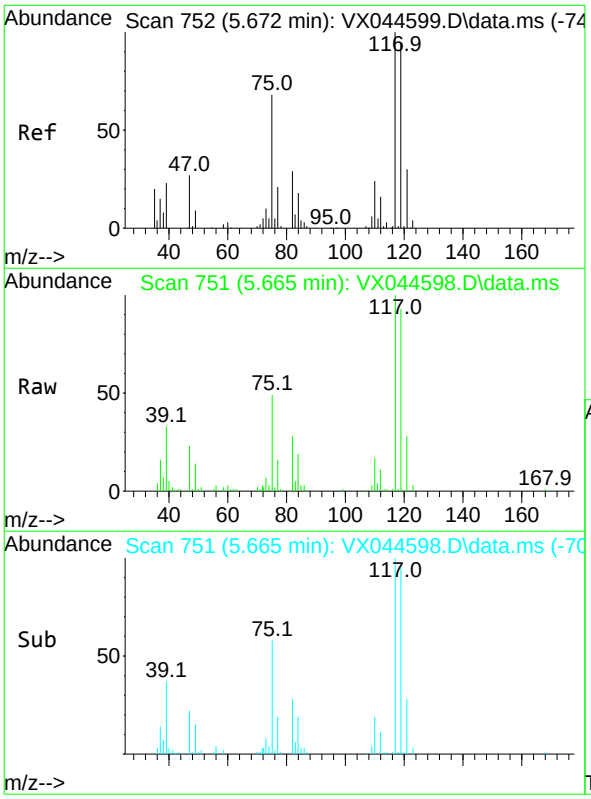
Ion	Ratio	Lower	Upper
43	100		
61	13.1	9.9	14.9
70	10.1	8.0	12.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

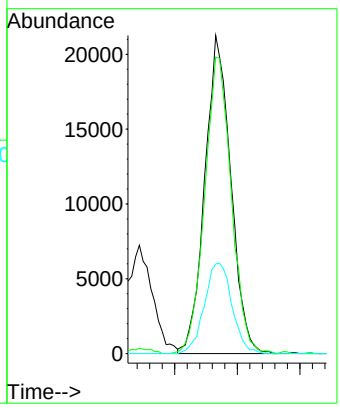
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

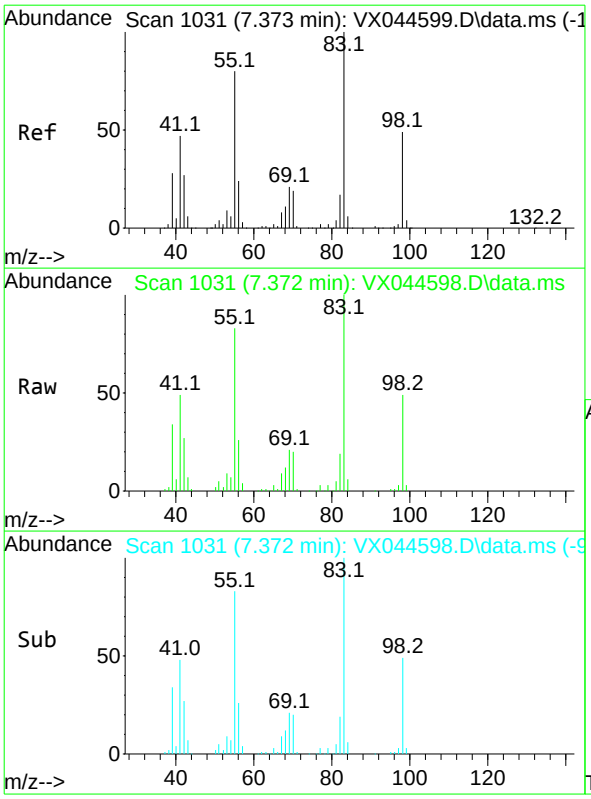


#38
Carbon Tetrachloride
Concen: 19.945 ug/l
RT: 5.665 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion:117 Resp: 61261

Ion	Ratio	Lower	Upper
117	100		
119	93.2	74.5	111.7
121	28.2	24.1	36.1

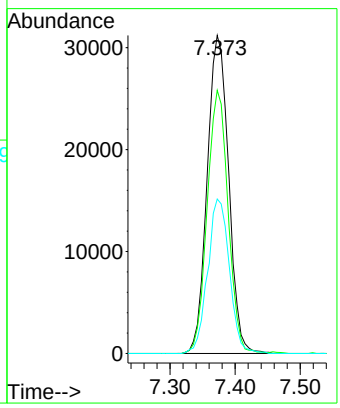




#39
Methylcyclohexane
Concen: 20.220 ug/l
RT: 7.372 min Scan# 10
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 83 Resp: 71421

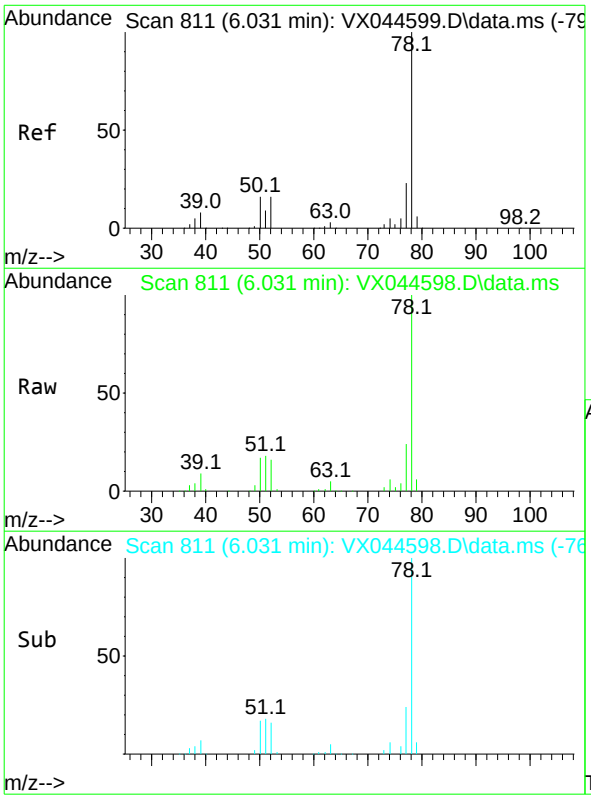
Ion	Ratio	Lower	Upper
83	100		
55	82.7	64.1	96.1
98	48.6	38.9	58.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

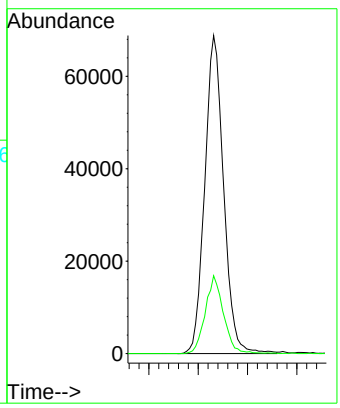
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

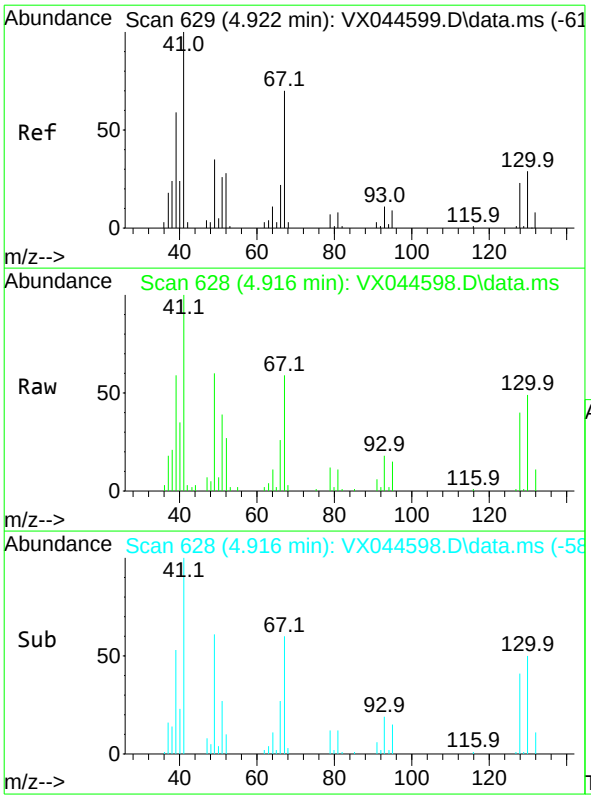


#40
Benzene
Concen: 20.965 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 78 Resp: 182735

Ion	Ratio	Lower	Upper
78	100		
77	24.5	18.8	28.2

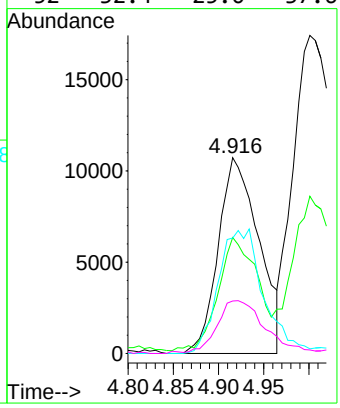




#41
Methacrylonitrile
Concen: 22.068 ug/l
RT: 4.916 min Scan# 62
Delta R.T. -0.006 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 41 Resp: 33545

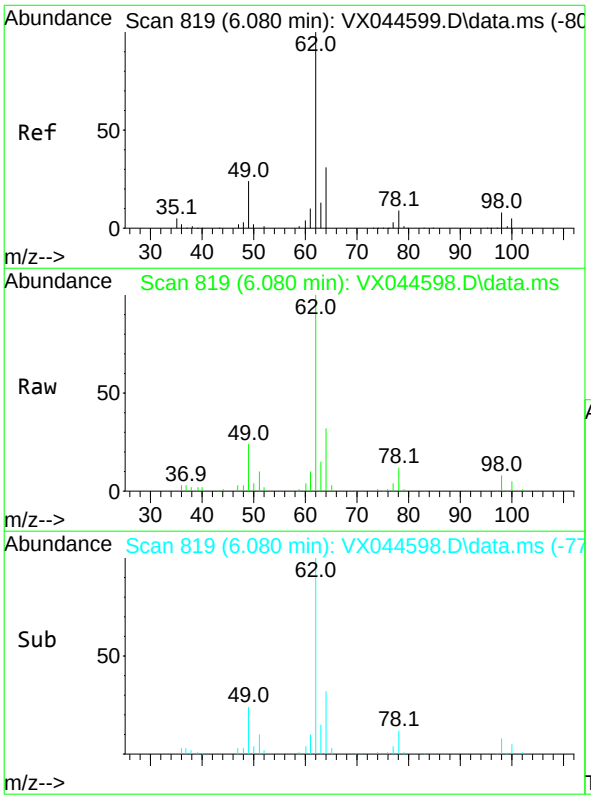
Ion	Ratio	Lower	Upper
41	100		
39	55.8	47.0	70.4
67	71.1	57.4	86.2
52	32.4	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

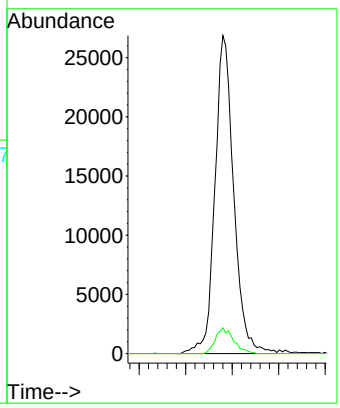
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

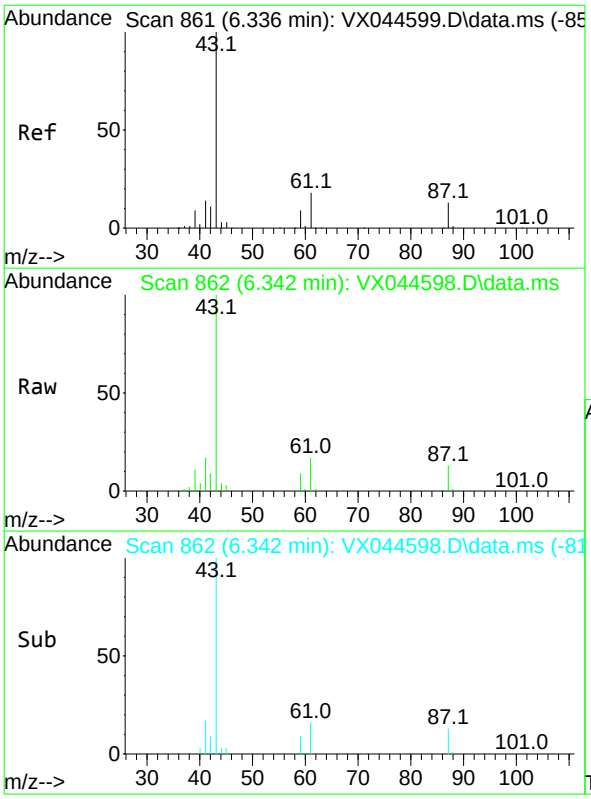


#42
1,2-Dichloroethane
Concen: 22.109 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 62 Resp: 75362

Ion	Ratio	Lower	Upper
62	100		
98	7.8	0.0	15.8

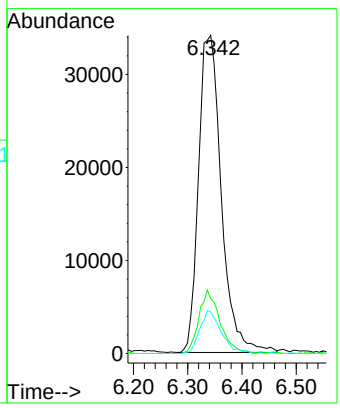




#43
Isopropyl Acetate
Concen: 21.325 ug/l
RT: 6.342 min Scan# 86
Delta R.T. 0.006 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 43 Resp: 99627

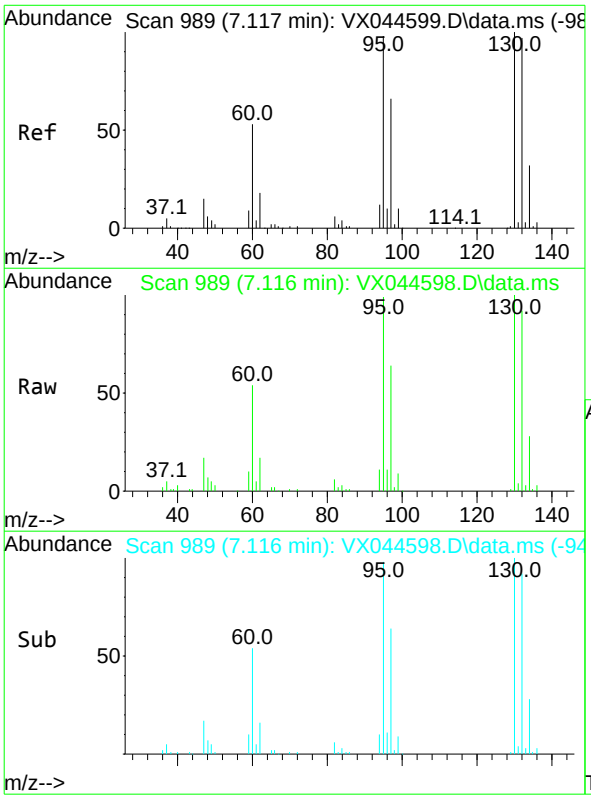
Ion	Ratio	Lower	Upper
43	100		
61	18.4	14.5	21.7
87	12.6	10.1	15.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

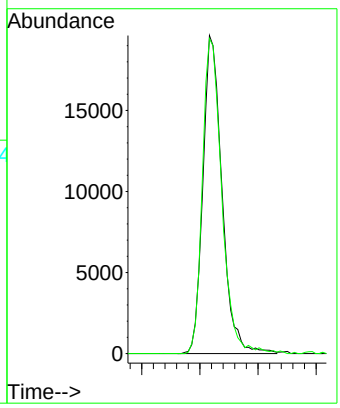
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

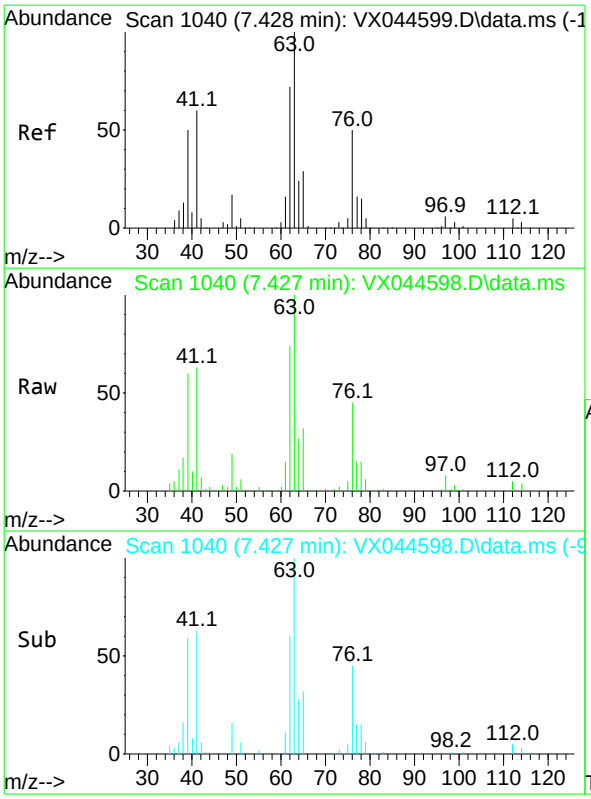


#44
Trichloroethene
Concen: 20.086 ug/l
RT: 7.116 min Scan# 989
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion:130 Resp: 44753

Ion	Ratio	Lower	Upper
130	100		
95	99.1	0.0	195.6

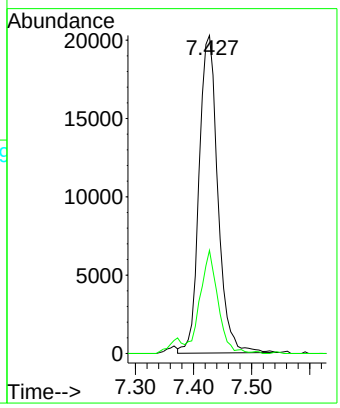




#45
1,2-Dichloropropane
Concen: 21.352 ug/l
RT: 7.427 min Scan# 10
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 63 Resp: 45374

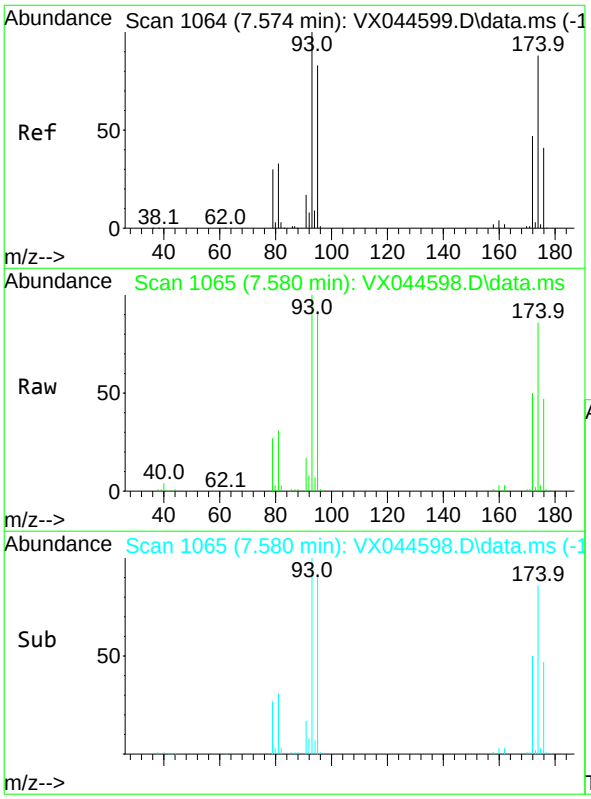
Ion	Ratio	Lower	Upper
63	100		
65	31.9	23.0	34.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

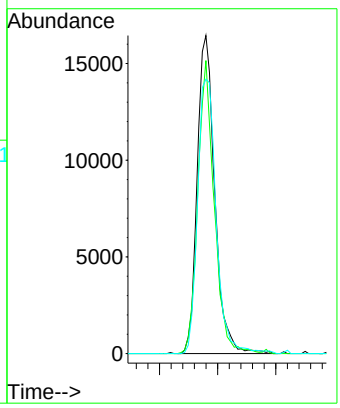
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

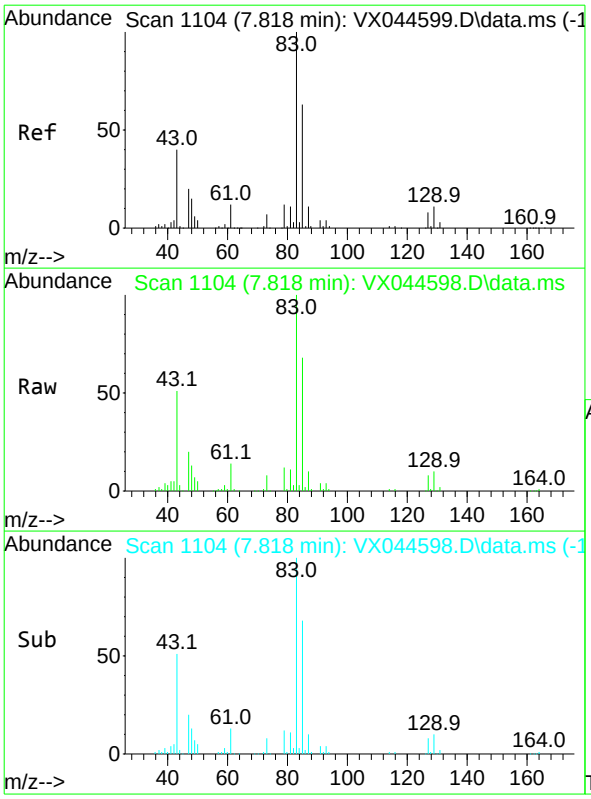


#46
Dibromomethane
Concen: 20.895 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. 0.006 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 93 Resp: 34533

Ion	Ratio	Lower	Upper
93	100		
95	86.0	65.8	98.6
174	91.5	73.4	110.0

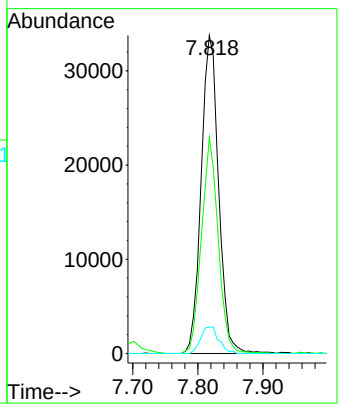




#47
Bromodichloromethane
Concen: 20.903 ug/l
RT: 7.818 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 83 Resp: 62867

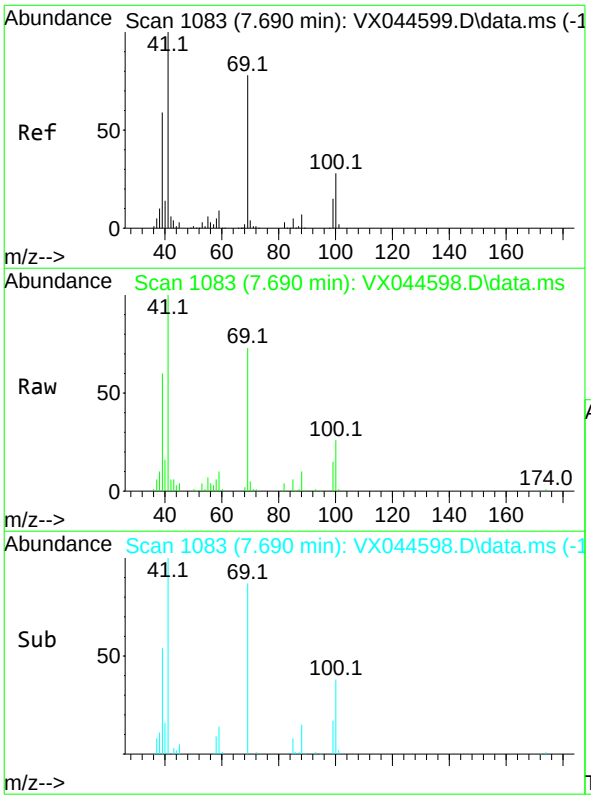
Ion	Ratio	Lower	Upper
83	100		
85	68.0	50.4	75.6
127	8.3	6.2	9.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

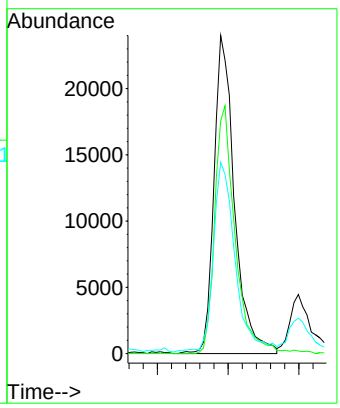
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

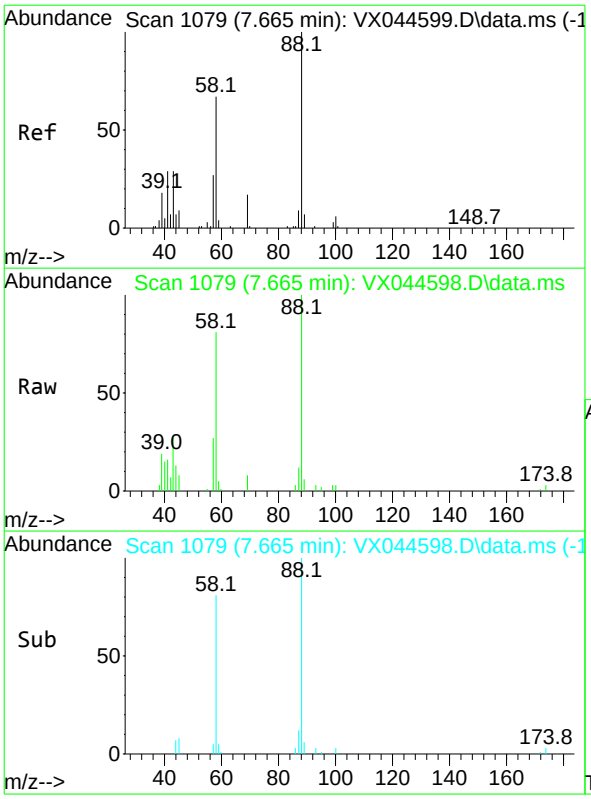


#48
Methyl methacrylate
Concen: 21.700 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 41 Resp: 48354

Ion	Ratio	Lower	Upper
41	100		
69	77.1	62.9	94.3
39	63.4	48.9	73.3

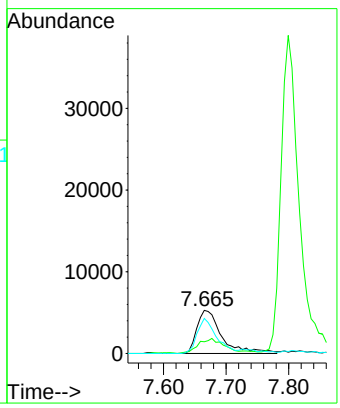




#49
1,4-Dioxane
Concen: 444.533 ug/l
RT: 7.665 min Scan# 10
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 88 Resp: 14556

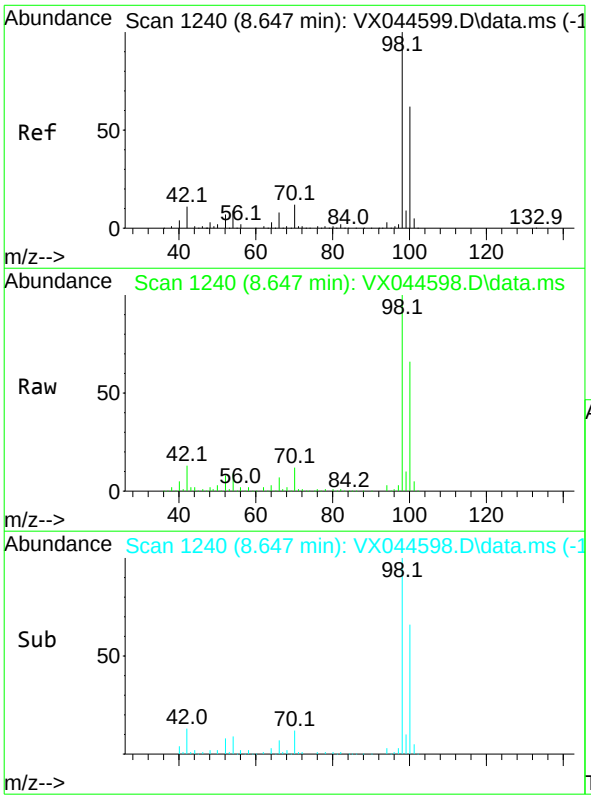
Ion	Ratio	Lower	Upper
88	100		
43	38.7	29.5	44.3
58	63.7	56.3	84.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

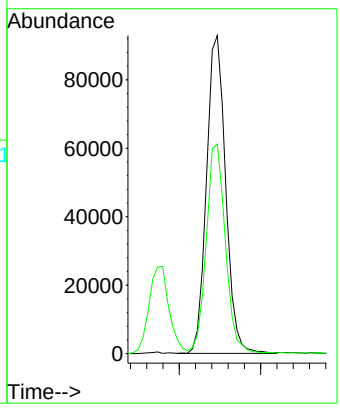
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

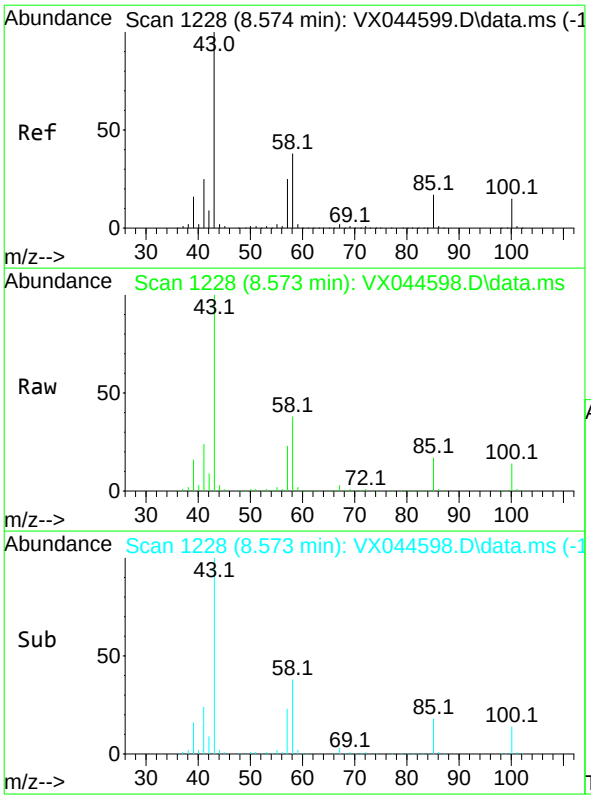


#50
Toluene-d8
Concen: 20.722 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 98 Resp: 151532

Ion	Ratio	Lower	Upper
98	100		
100	66.0	52.5	78.7

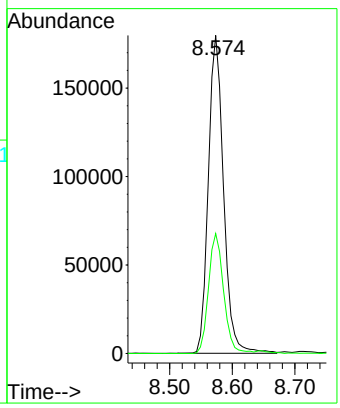




#51
4-Methyl-2-Pentanone
Concen: 111.120 ug/l
RT: 8.573 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 43 Resp: 303467

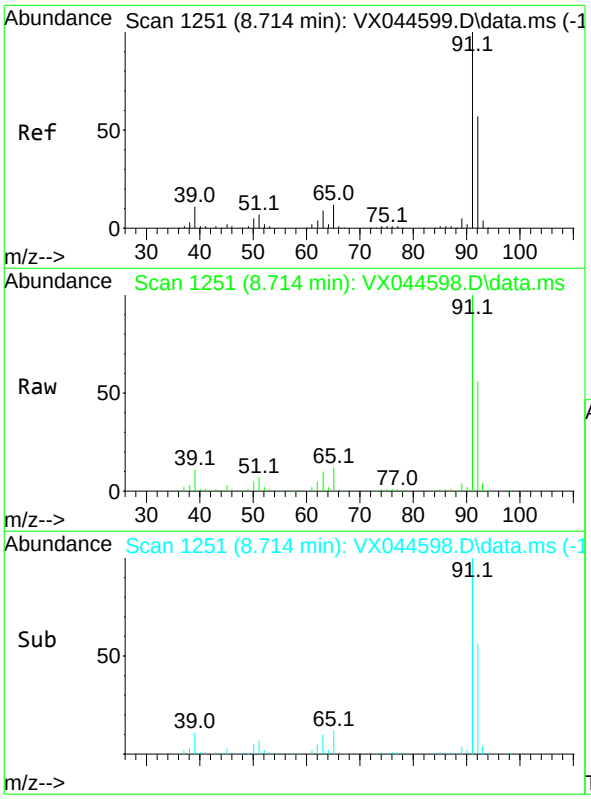
Ion	Ratio	Lower	Upper
43	100		
58	37.5	30.0	45.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

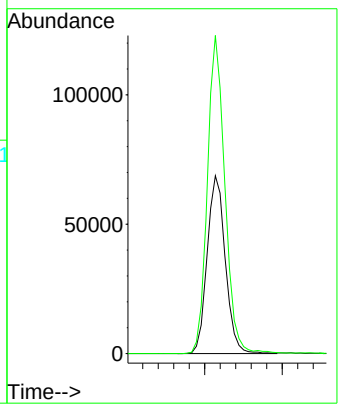
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

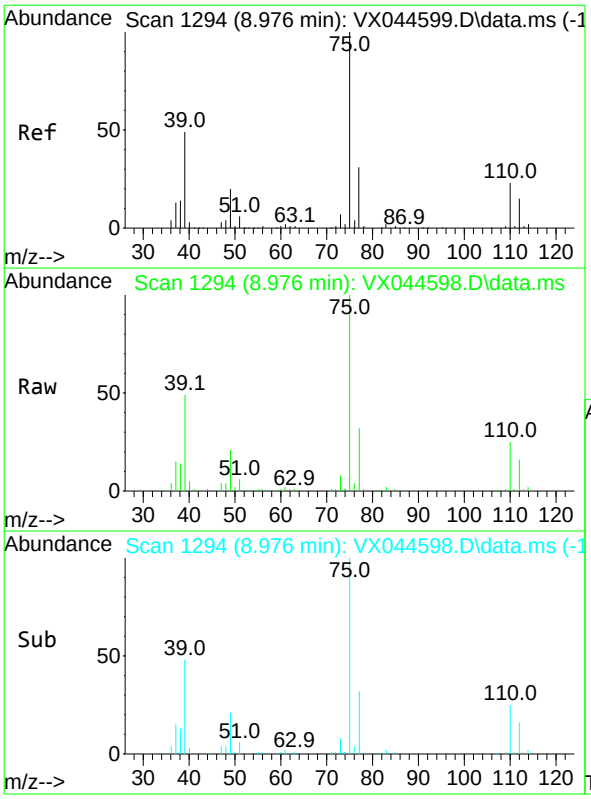


#52
Toluene
Concen: 21.272 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 92 Resp: 111872

Ion	Ratio	Lower	Upper
92	100		
91	172.6	140.6	210.8

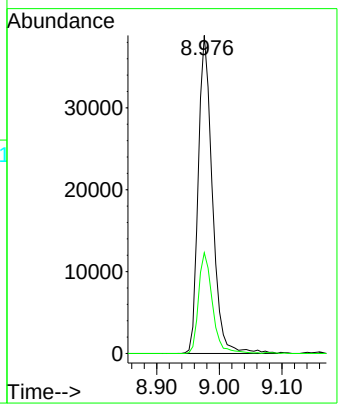




#53
t-1,3-Dichloropropene
Concen: 21.133 ug/l
RT: 8.976 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 75 Resp: 60752

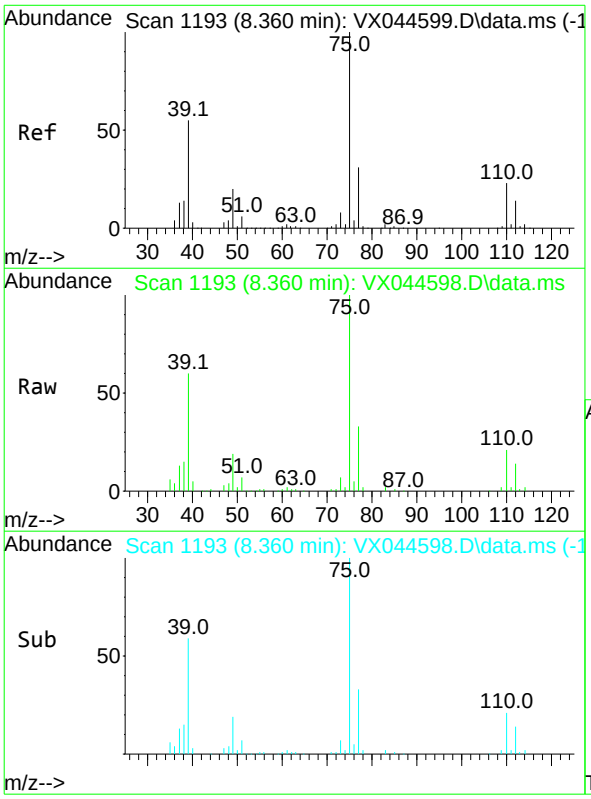
Ion	Ratio	Lower	Upper
75	100		
77	31.7	24.8	37.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

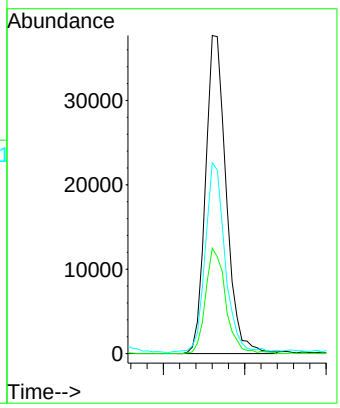
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

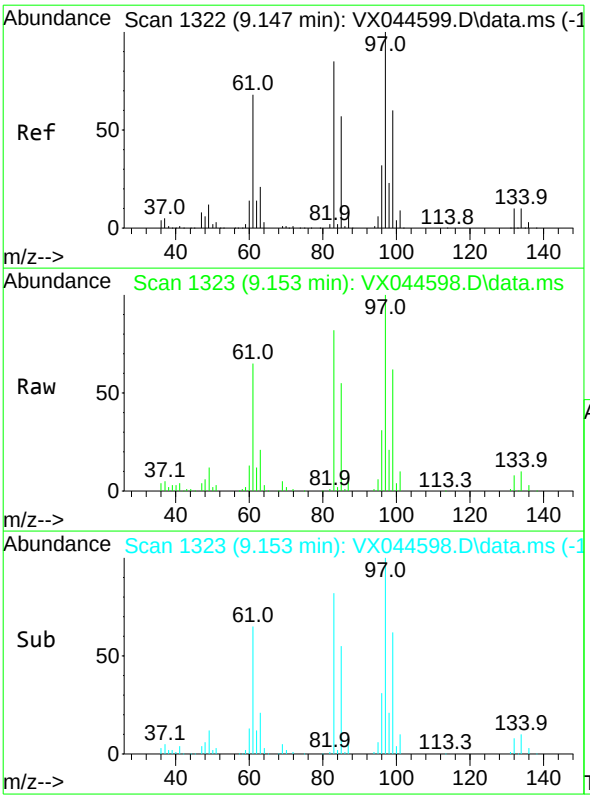


#54
cis-1,3-Dichloropropene
Concen: 20.586 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 75 Resp: 66510

Ion	Ratio	Lower	Upper
75	100		
77	33.2	24.5	36.7
39	59.3	44.3	66.5

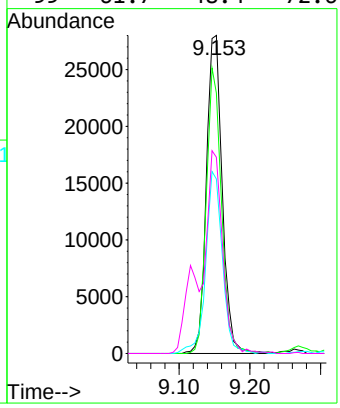




#55
1,1,2-Trichloroethane
Concen: 21.158 ug/l
RT: 9.153 min Scan# 13
Delta R.T. 0.006 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 97 Resp: 43622

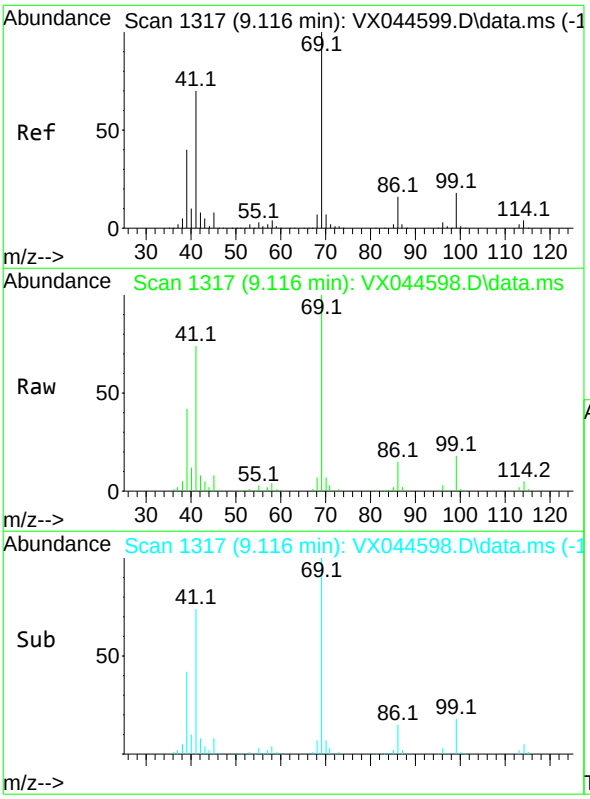
Ion	Ratio	Lower	Upper
97	100		
83	81.9	68.0	102.0
85	54.9	45.4	68.0
99	61.7	48.4	72.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

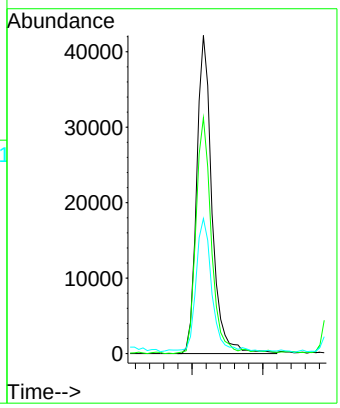
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

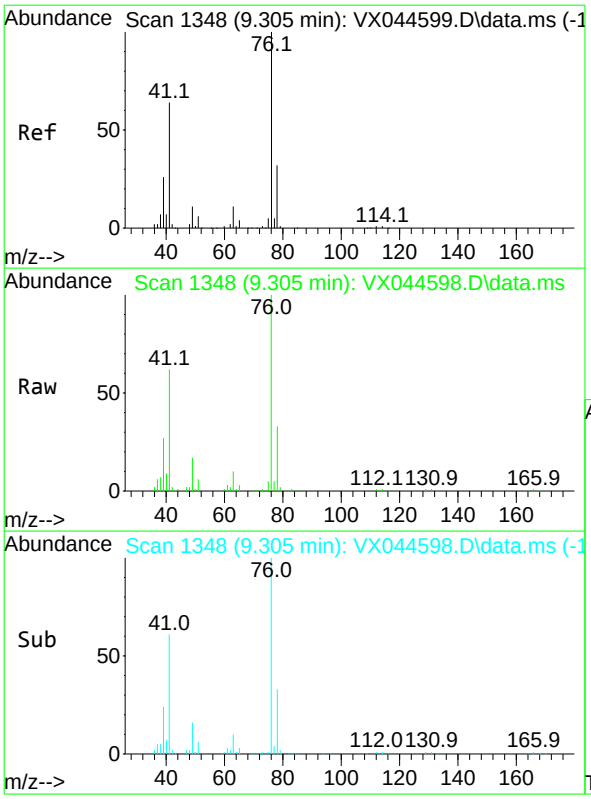


#56
Ethyl methacrylate
Concen: 21.068 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 69 Resp: 63170

Ion	Ratio	Lower	Upper
69	100		
41	73.6	57.7	86.5
39	43.5	33.7	50.5

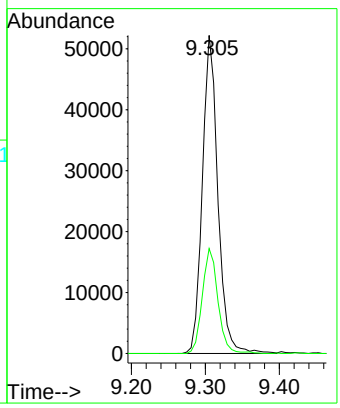




#57
1,3-Dichloropropane
Concen: 21.969 ug/l
RT: 9.305 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 76 Resp: 76059

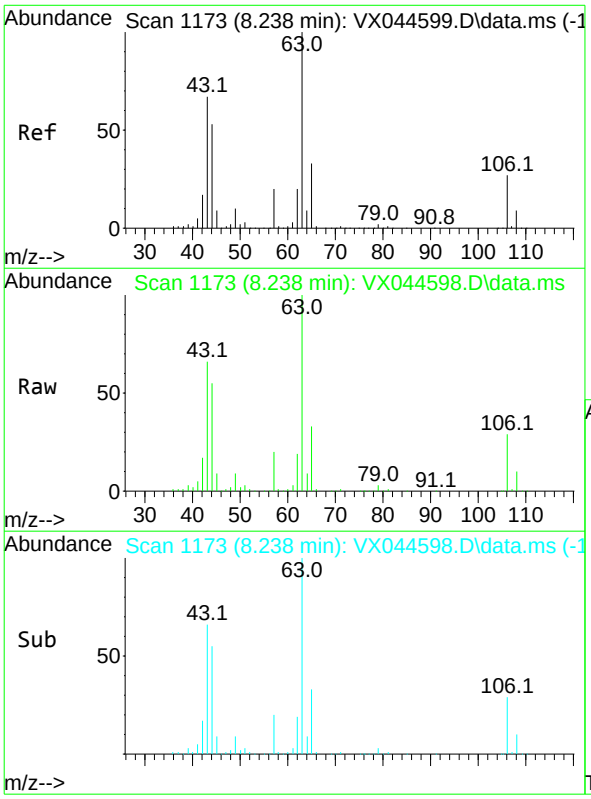
Ion	Ratio	Lower	Upper
76	100		
78	33.2	25.8	38.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

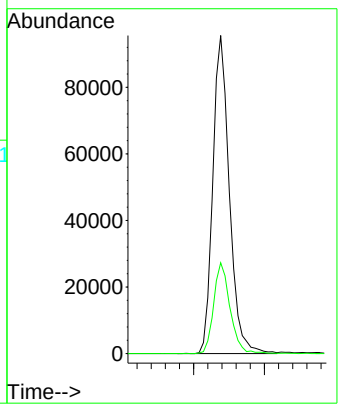
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

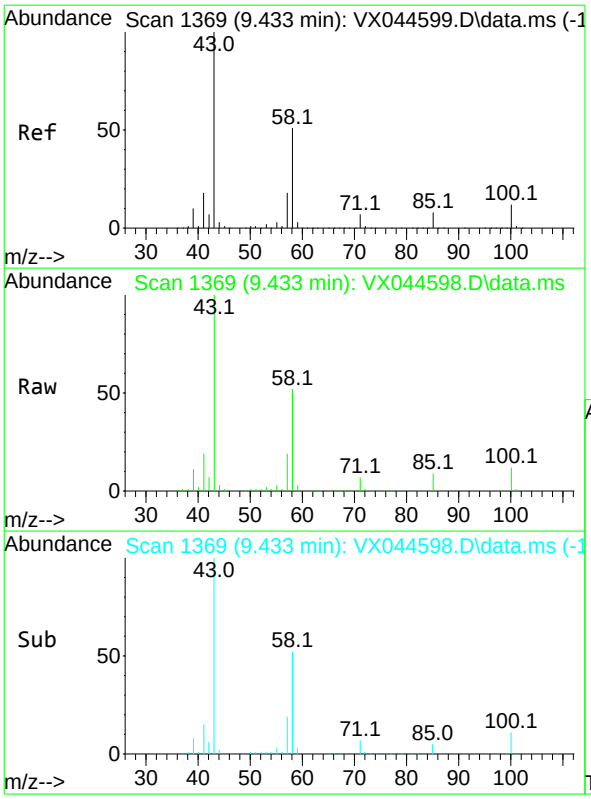


#58
2-Chloroethyl Vinyl ether
Concen: 104.333 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 63 Resp: 155083

Ion	Ratio	Lower	Upper
63	100		
106	28.2	22.4	33.6

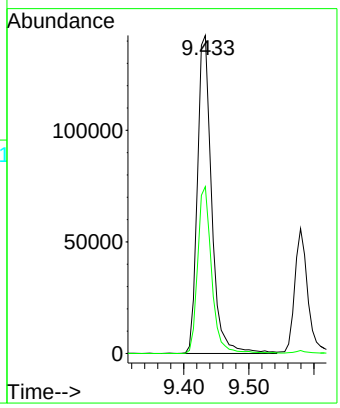




#59
2-Hexanone
Concen: 112.353 ug/l
RT: 9.433 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 43 Resp: 216998

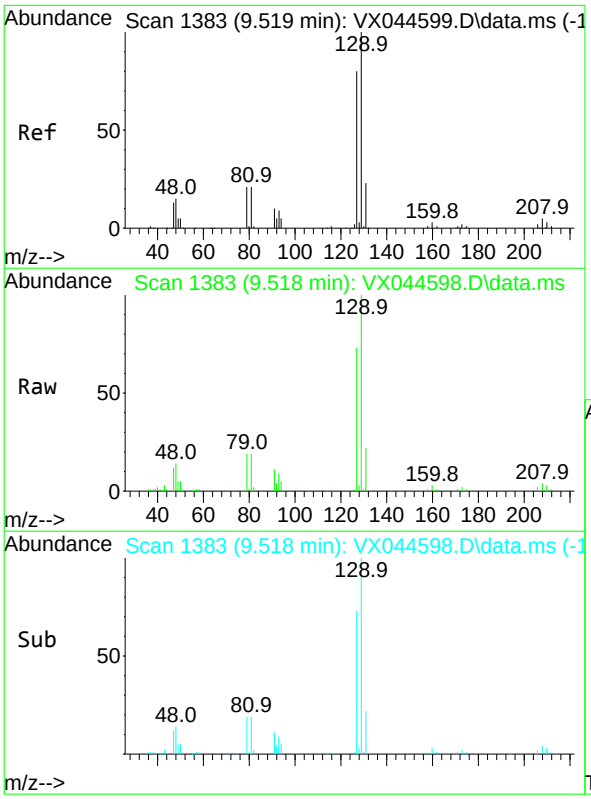
Ion	Ratio	Lower	Upper
43	100		
58	51.4	25.4	76.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

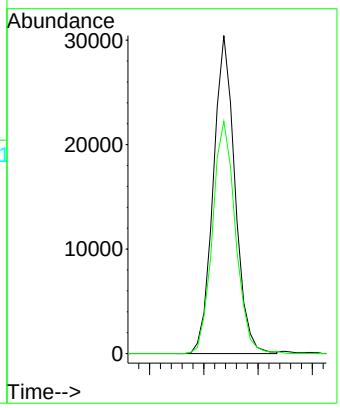
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

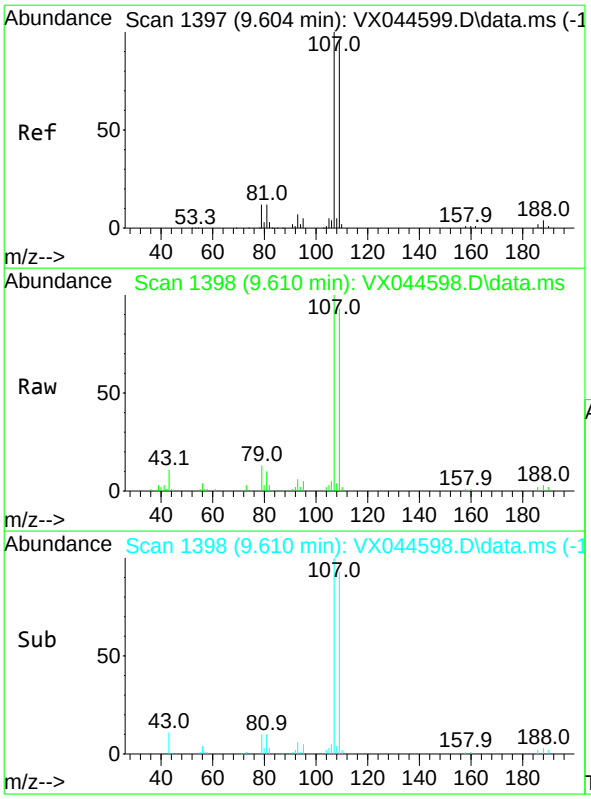


#60
Dibromochloromethane
Concen: 20.568 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion:129 Resp: 42282

Ion	Ratio	Lower	Upper
129	100		
127	77.3	38.9	116.7

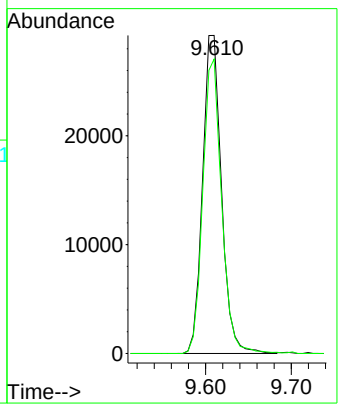




#61
1,2-Dibromoethane
Concen: 21.501 ug/l
RT: 9.610 min Scan# 13
Delta R.T. 0.006 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion:107 Resp: 44770

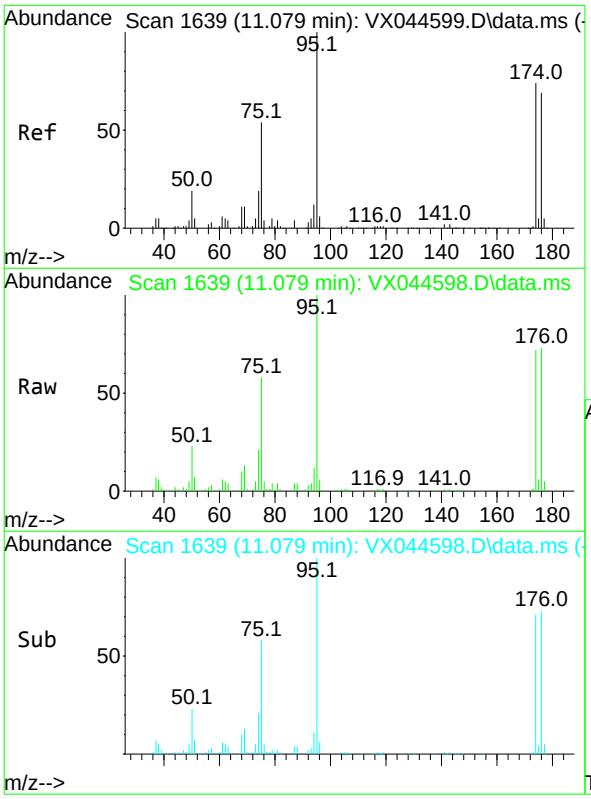
Ion	Ratio	Lower	Upper
107	100		
109	92.2	76.7	115.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

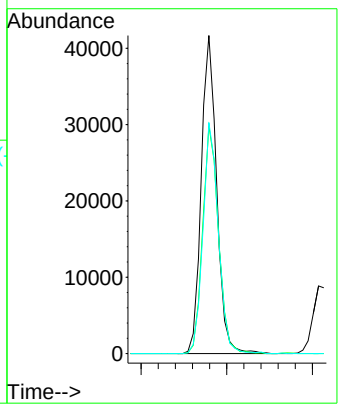
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

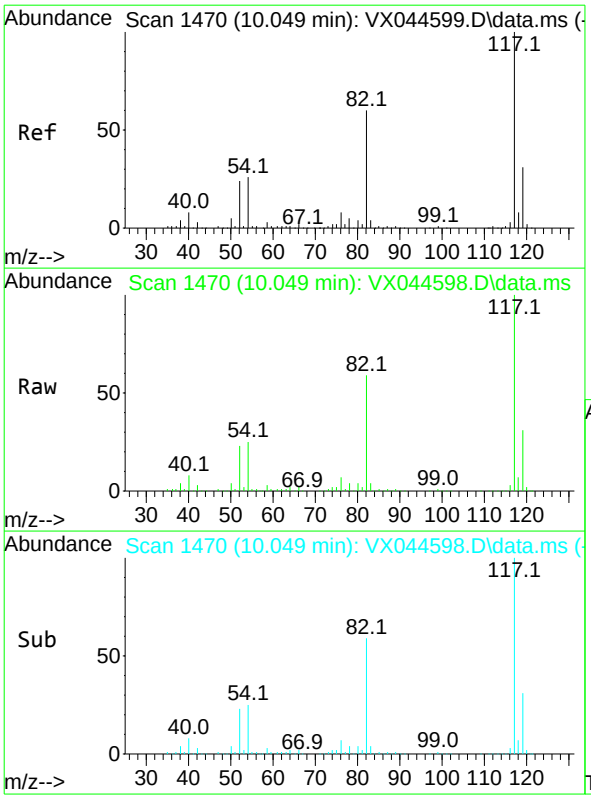


#62
4-Bromofluorobenzene
Concen: 20.131 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 95 Resp: 51959

Ion	Ratio	Lower	Upper
95	100		
174	73.4	0.0	148.8
176	72.6	0.0	139.8

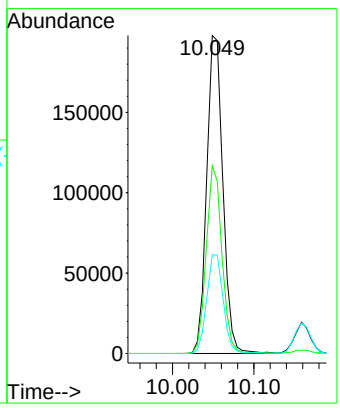




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion:117 Resp: 273147

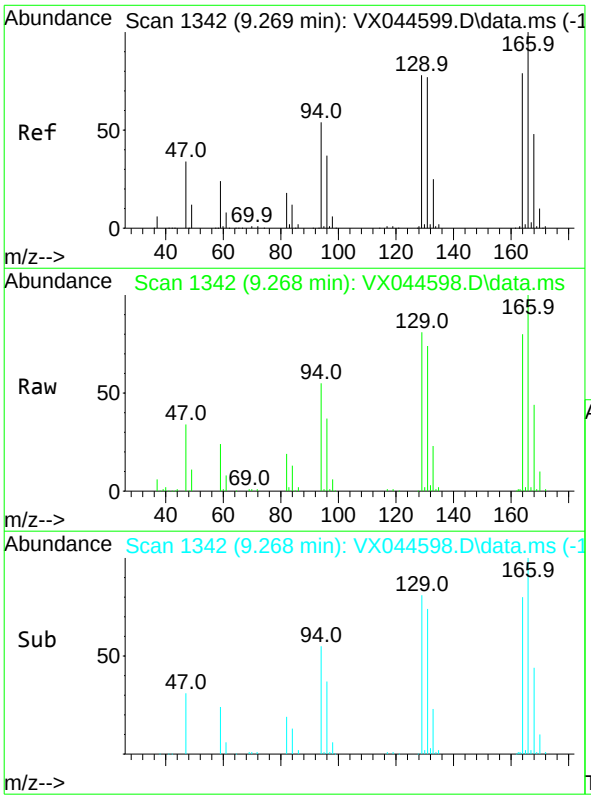
Ion	Ratio	Lower	Upper
117	100		
82	59.0	47.8	71.6
119	31.0	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

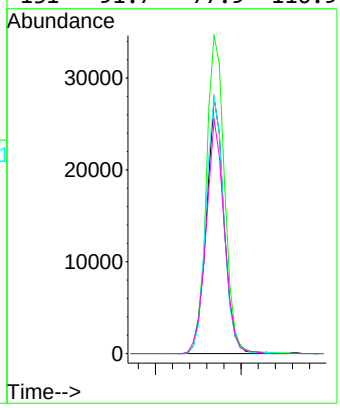
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

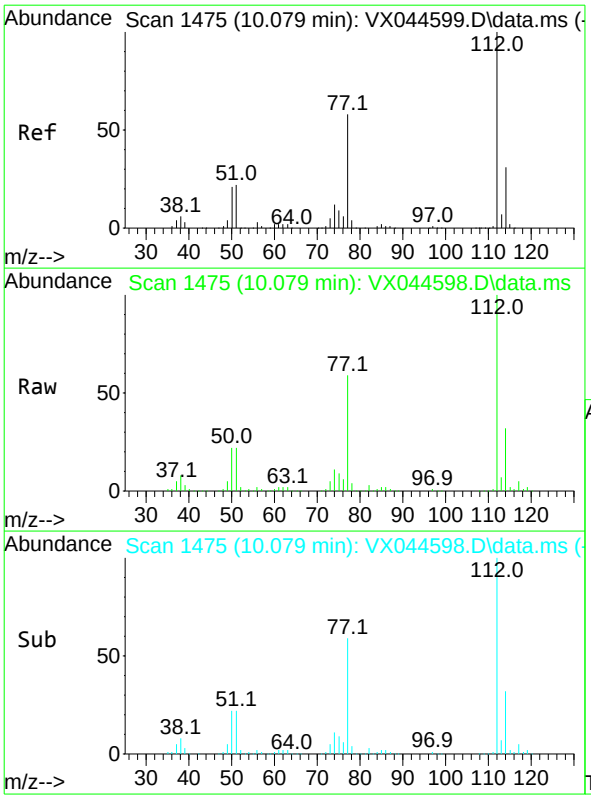


#64
Tetrachloroethene
Concen: 20.489 ug/l
RT: 9.268 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion:164 Resp: 39569

Ion	Ratio	Lower	Upper
164	100		
166	124.4	101.5	152.3
129	100.2	78.9	118.3
131	91.7	77.9	116.9

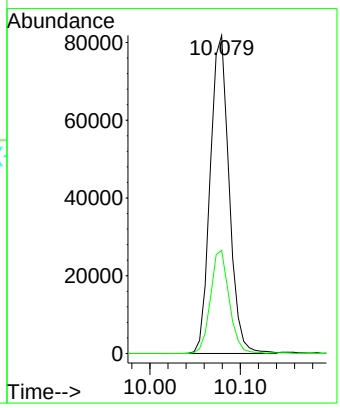




#65
Chlorobenzene
Concen: 20.467 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion:112 Resp: 118653

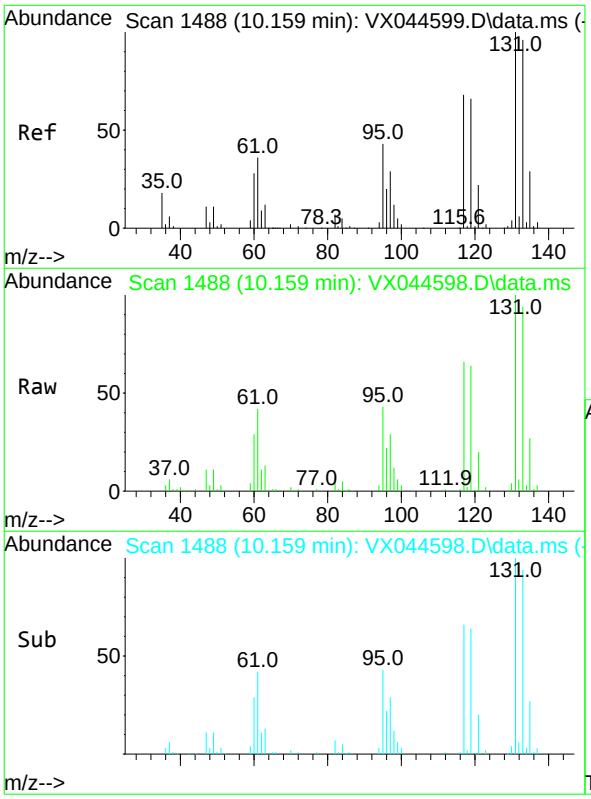
Ion	Ratio	Lower	Upper
112	100		
114	32.4	25.0	37.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

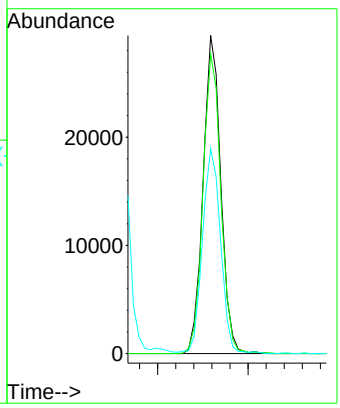
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

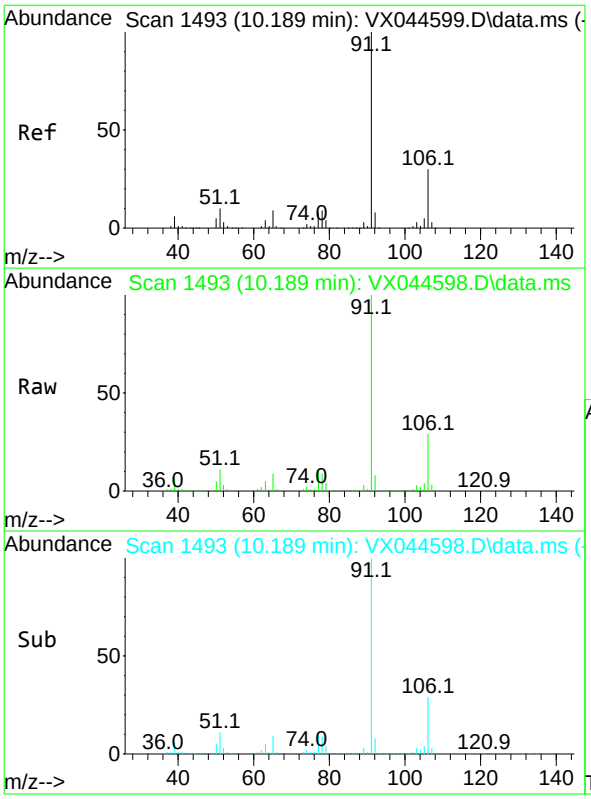


#66
1,1,1,2-Tetrachloroethane
Concen: 20.752 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion:131 Resp: 39956

Ion	Ratio	Lower	Upper
131	100		
133	94.9	48.0	144.0
119	65.9	32.8	98.4

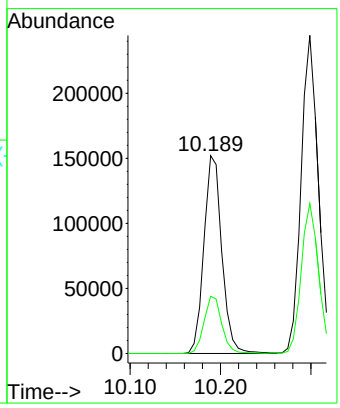




#67
Ethyl Benzene
Concen: 21.066 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 91 Resp: 209710

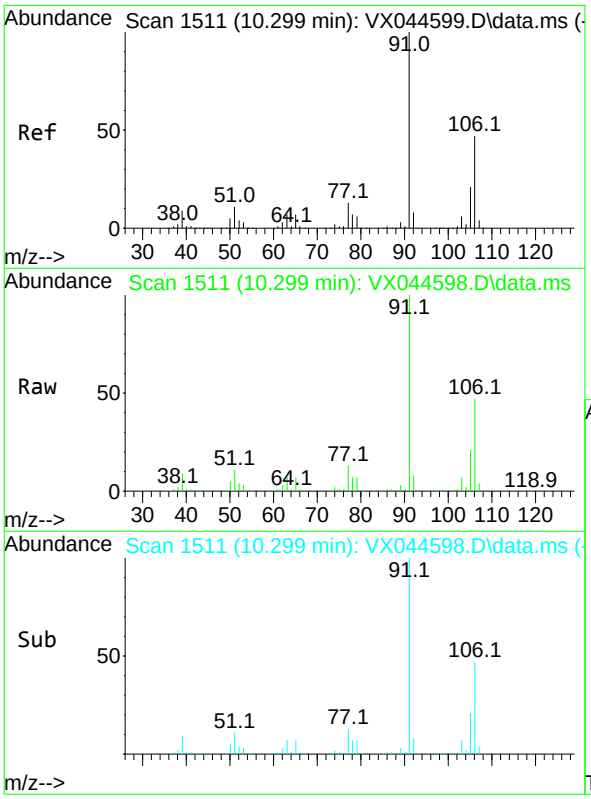
Ion	Ratio	Lower	Upper
91	100		
106	28.9	23.8	35.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

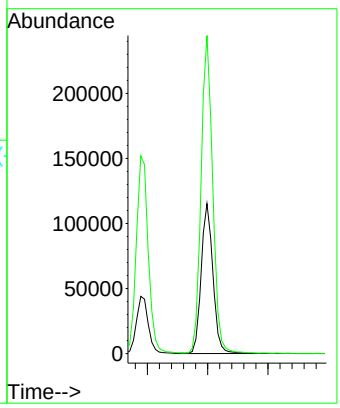
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

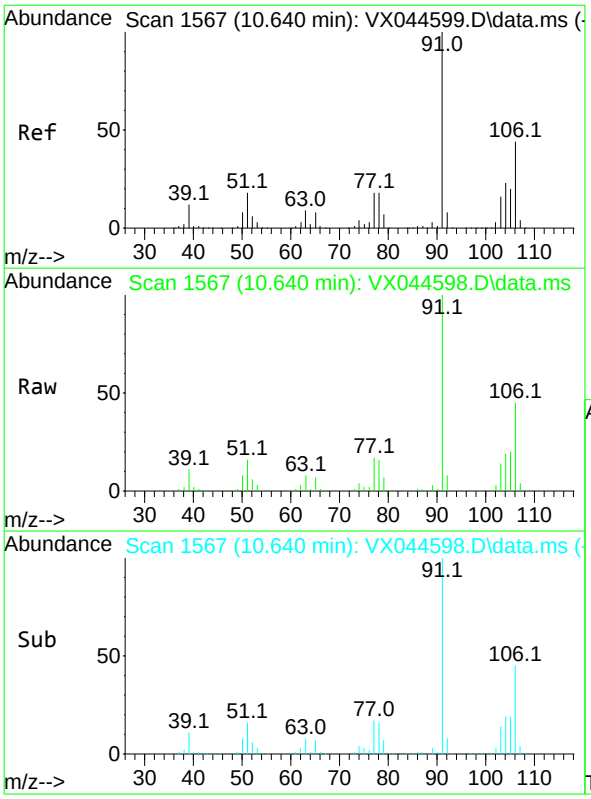


#68
m/p-Xylenes
Concen: 42.593 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion:106 Resp: 155810

Ion	Ratio	Lower	Upper
106	100		
91	209.5	170.4	255.6

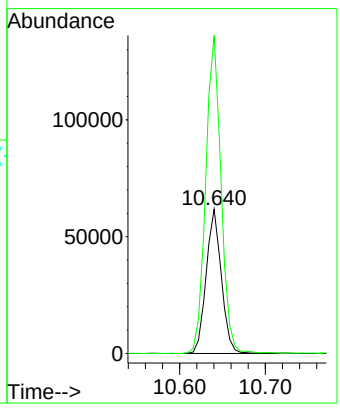




#69
o-Xylene
Concen: 20.601 ug/l
RT: 10.640 min Scan# 15
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion:106 Resp: 76065

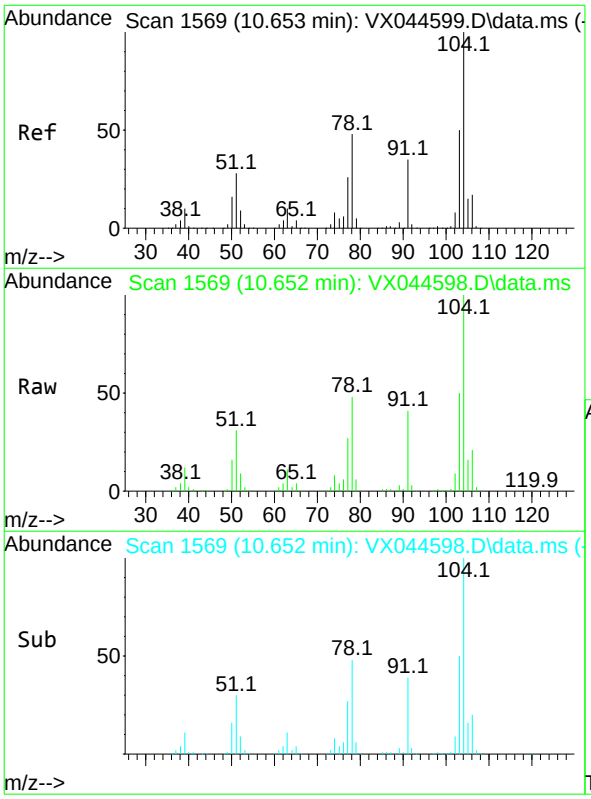
Ion	Ratio	Lower	Upper
106	100		
91	223.2	112.3	336.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

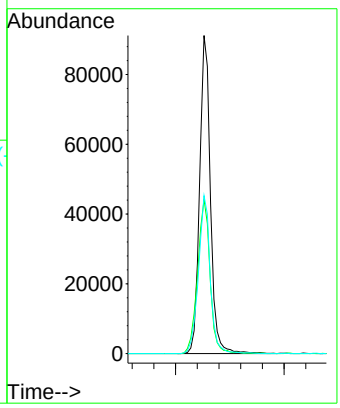
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

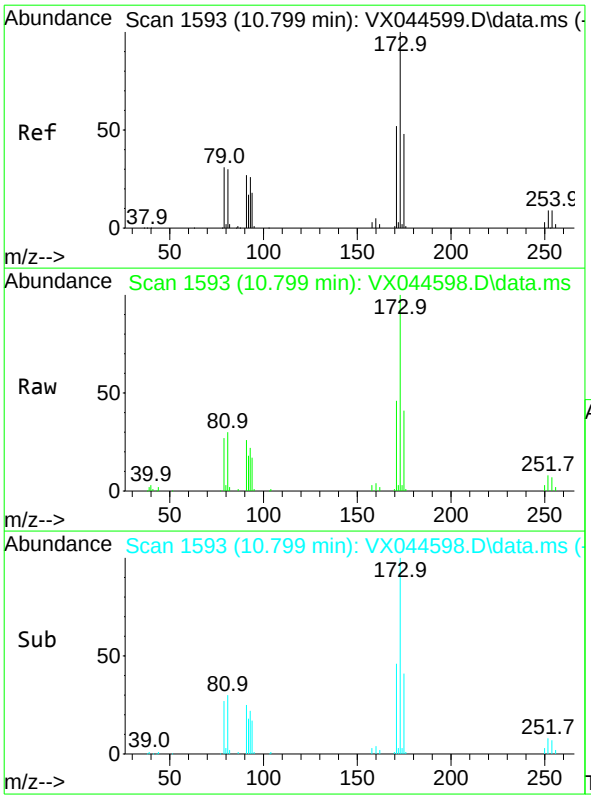


#70
Styrene
Concen: 21.385 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion:104 Resp: 126293

Ion	Ratio	Lower	Upper
104	100		
78	55.6	44.0	66.0
103	54.4	43.8	65.6





#71
Bromoform
Concen: 19.617 ug/l
RT: 10.799 min Scan# 15
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

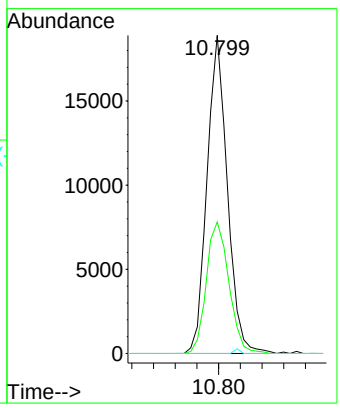
Tgt Ion:173 Resp: 24563

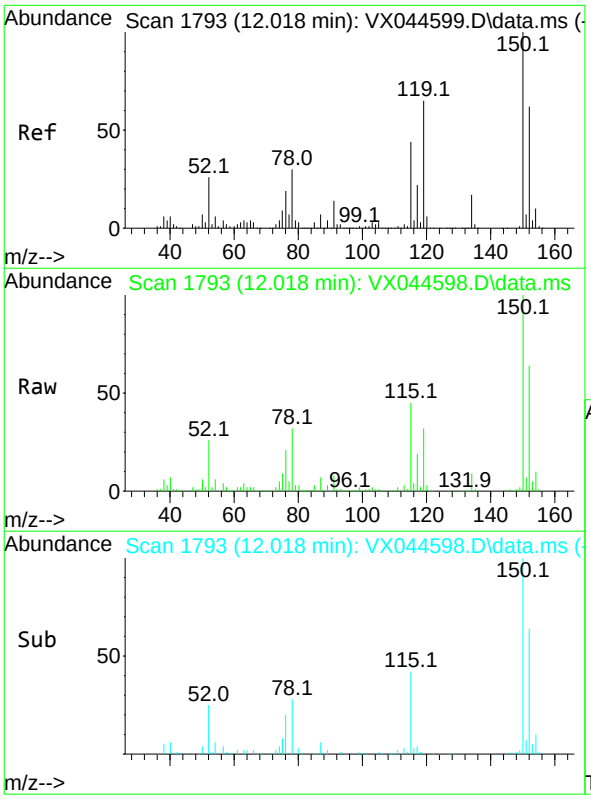
Ion	Ratio	Lower	Upper
173	100		
175	45.9	24.6	73.8
254	0.4	0.0	0.0#

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

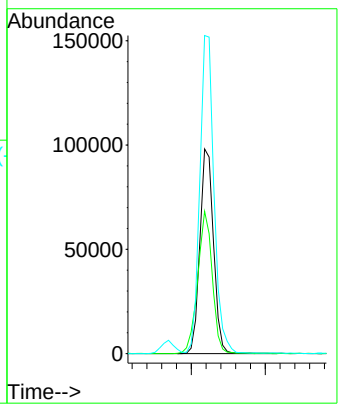


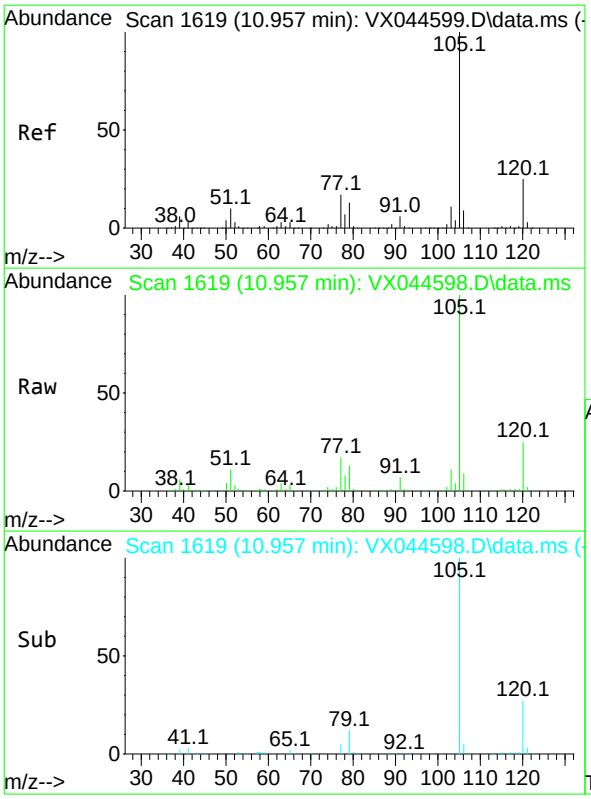


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion:152 Resp: 125618

Ion	Ratio	Lower	Upper
152	100		
115	74.1	44.4	133.1
150	161.8	0.0	355.0

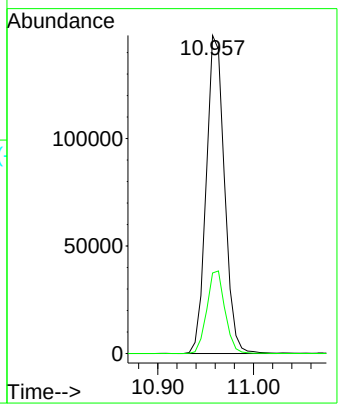




#73
Isopropylbenzene
Concen: 21.012 ug/l
RT: 10.957 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion:105 Resp: 195554

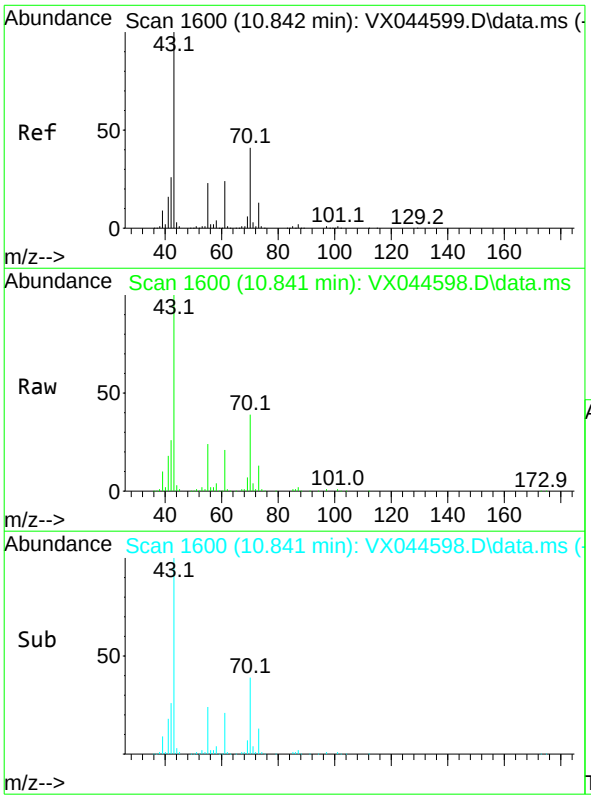
Ion	Ratio	Lower	Upper
105	100		
120	25.8	13.0	38.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

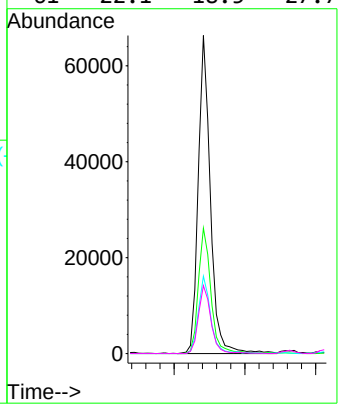
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

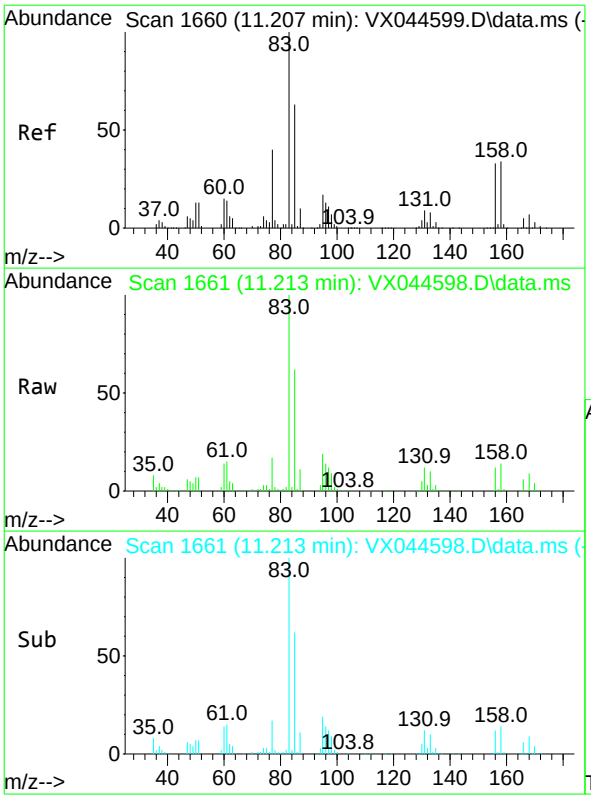


#74
N-amyl acetate
Concen: 21.023 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 43 Resp: 79390

Ion	Ratio	Lower	Upper
43	100		
70	40.5	32.9	49.3
55	24.7	19.0	28.6
61	22.1	18.5	27.7

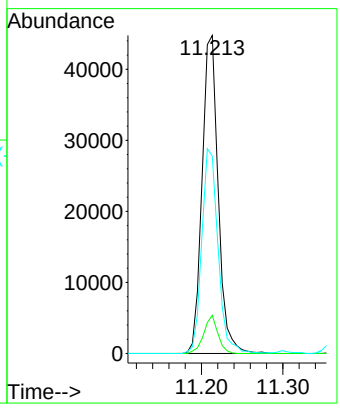




#75
1,1,2,2-Tetrachloroethane
Concen: 20.550 ug/l
RT: 11.213 min Scan# 16
Delta R.T. 0.006 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 83 Resp: 61645

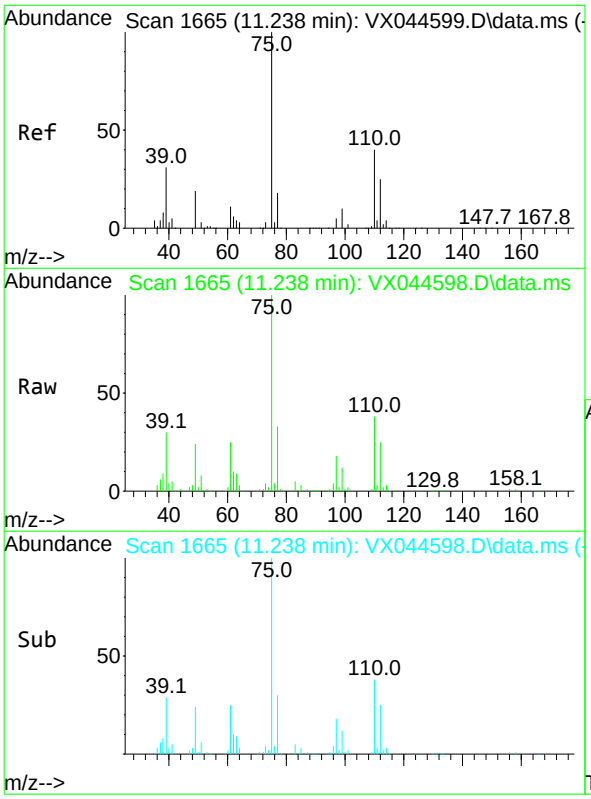
Ion	Ratio	Lower	Upper
83	100		
131	10.5	5.0	15.0
85	65.0	31.9	95.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

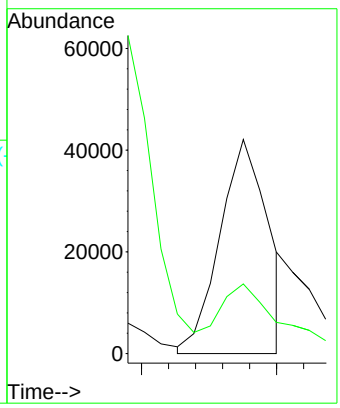
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

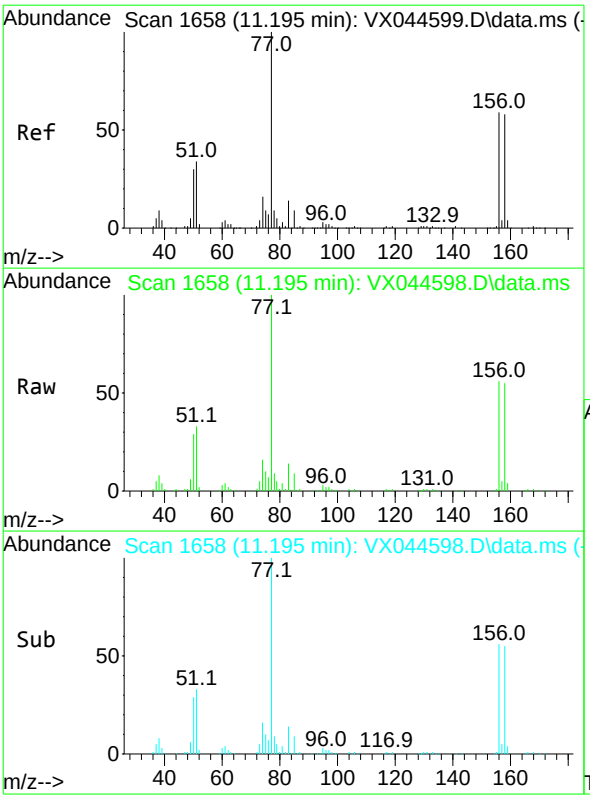


#76
1,2,3-Trichloropropane
Concen: 20.703 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 75 Resp: 52133

Ion	Ratio	Lower	Upper
75	100		
77	42.2	21.1	63.1

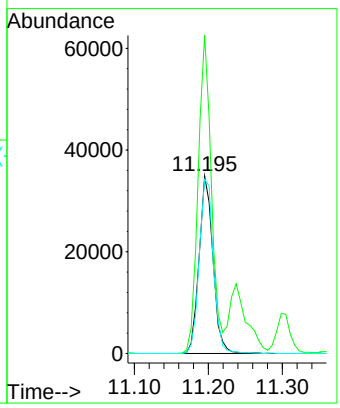




#77
Bromobenzene
Concen: 20.215 ug/l
RT: 11.195 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion:156 Resp: 45702

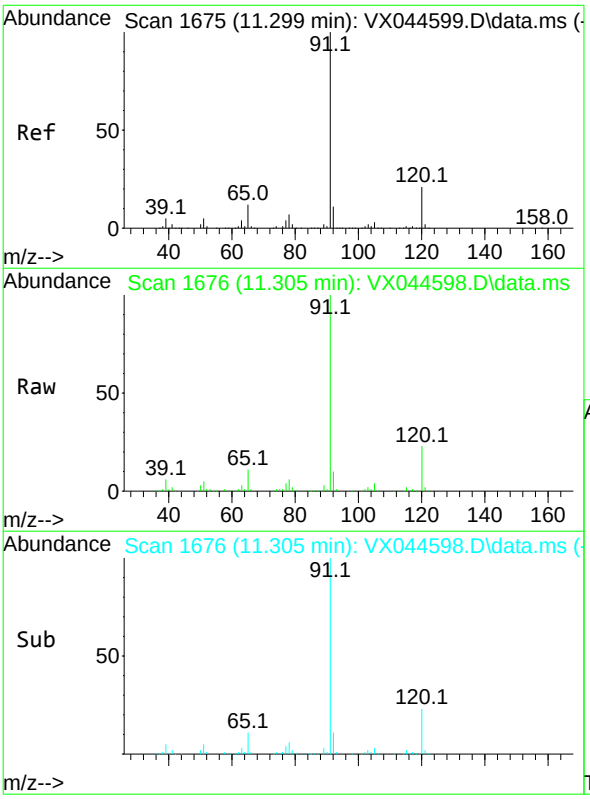
Ion	Ratio	Lower	Upper
156	100		
77	171.0	85.7	257.1
158	100.2	49.9	149.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

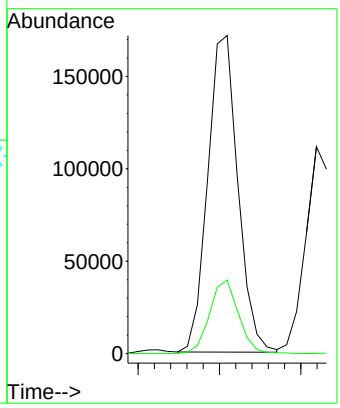
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

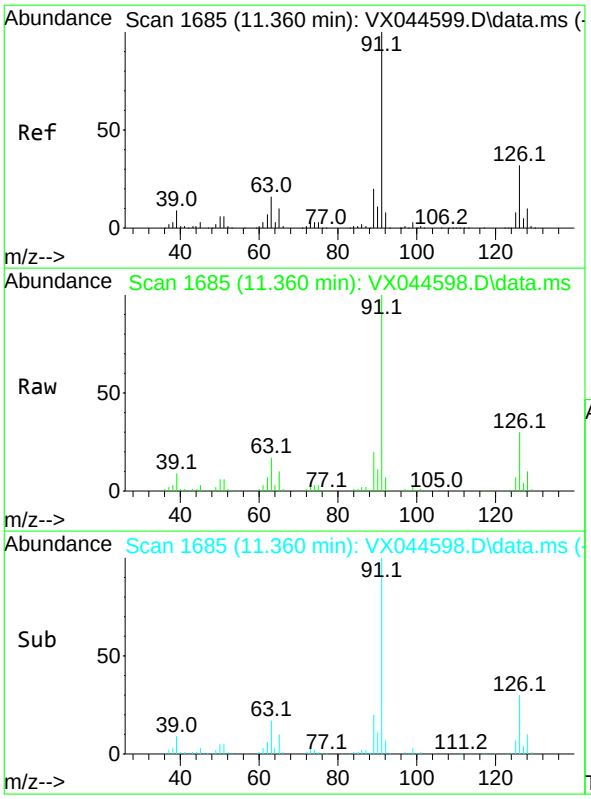


#78
n-propylbenzene
Concen: 21.078 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.006 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 91 Resp: 220954

Ion	Ratio	Lower	Upper
91	100		
120	22.3	11.2	33.5

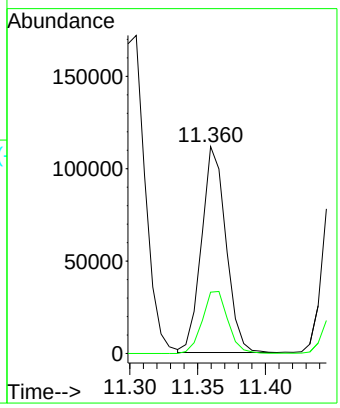




#79
2-Chlorotoluene
Concen: 20.541 ug/l
RT: 11.360 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 91 Resp: 139531

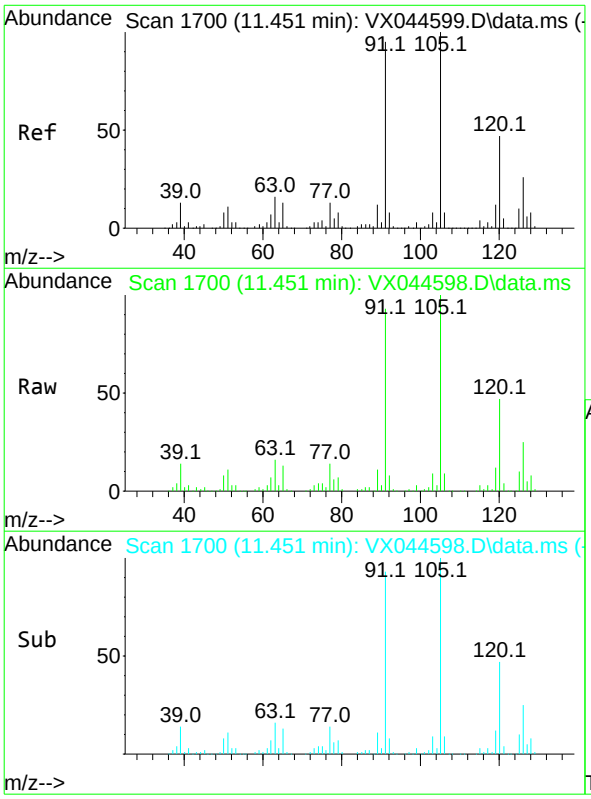
Ion	Ratio	Lower	Upper
91	100		
126	31.6	16.4	49.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

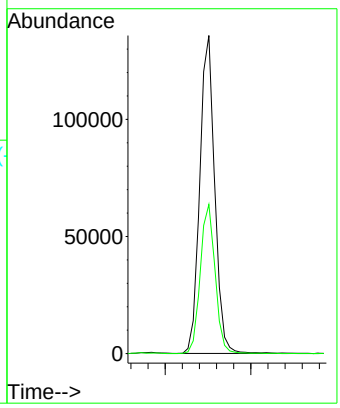
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

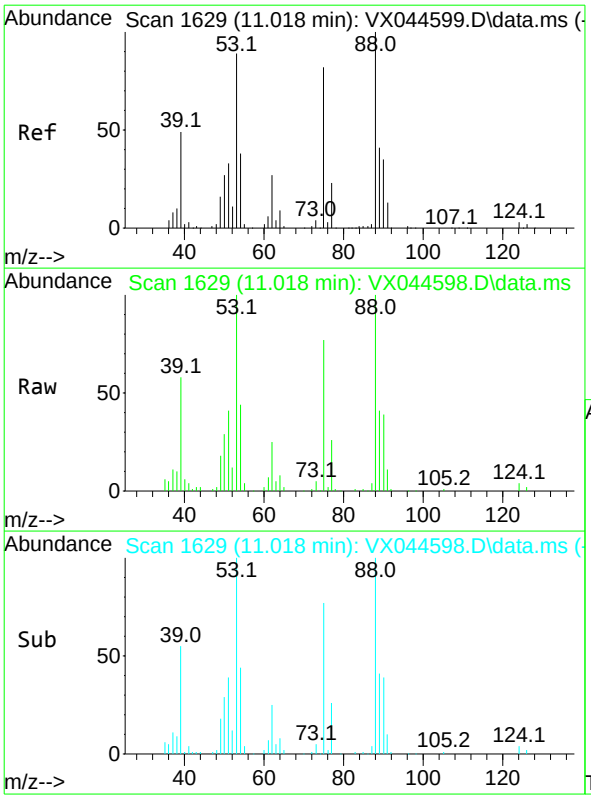


#80
1,3,5-Trimethylbenzene
Concen: 21.290 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion:105 Resp: 164285

Ion	Ratio	Lower	Upper
105	100		
120	46.7	23.5	70.5

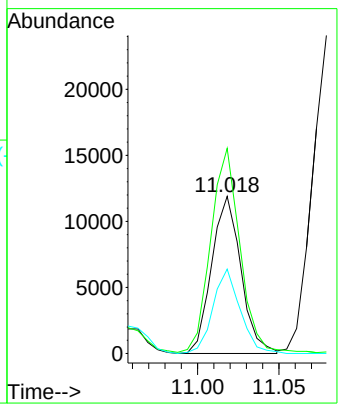




#81
trans-1,4-Dichloro-2-butene
Concen: 18.014 ug/l
RT: 11.018 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 75 Resp: 14902

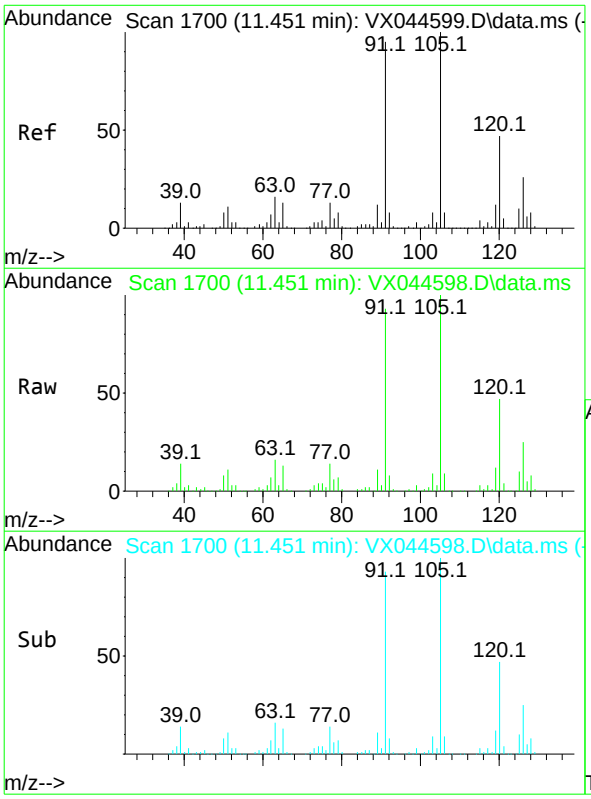
Ion	Ratio	Lower	Upper
75	100		
53	131.7	92.7	139.1
89	49.9	38.3	57.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

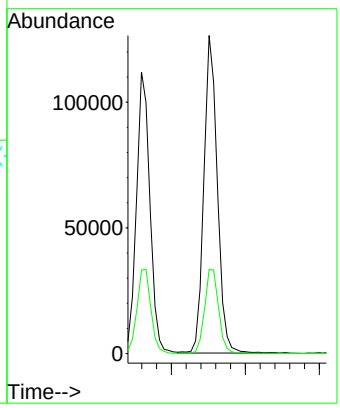
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

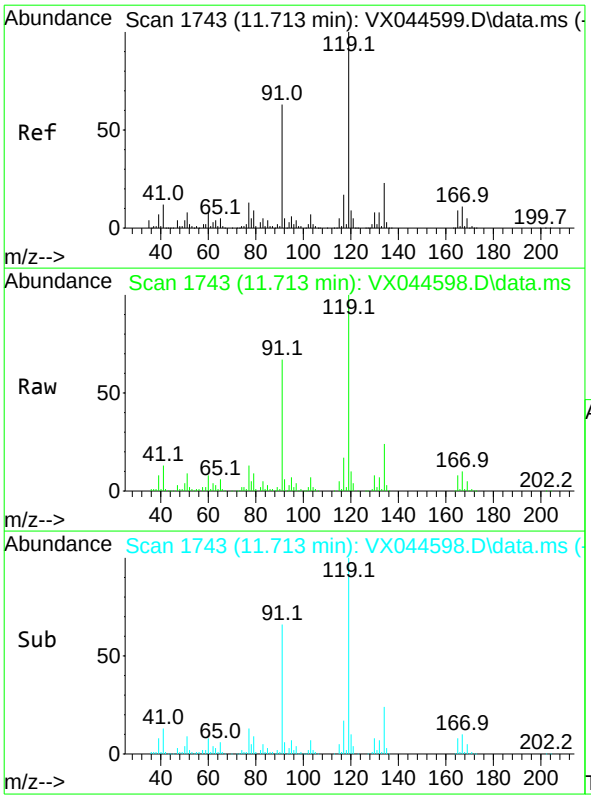


#82
4-Chlorotoluene
Concen: 20.867 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 91 Resp: 159459

Ion	Ratio	Lower	Upper
91	100		
126	27.5	14.0	42.0

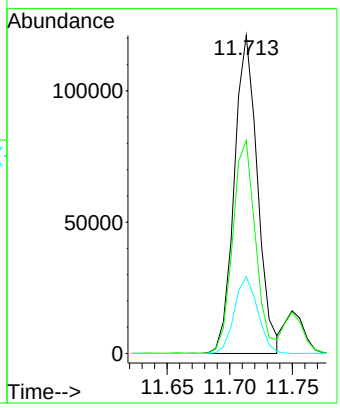




#83
tert-Butylbenzene
Concen: 20.301 ug/l
RT: 11.713 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion:119 Resp: 155984

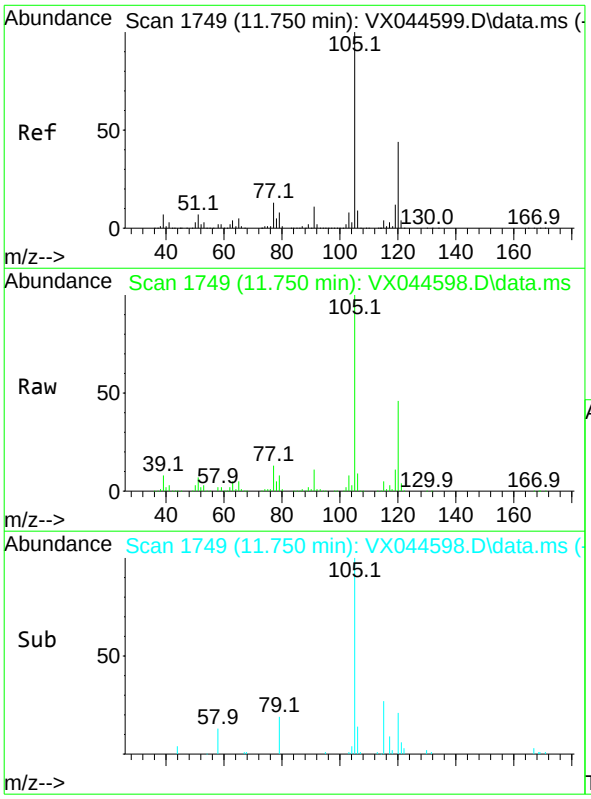
Ion	Ratio	Lower	Upper
119	100		
91	66.2	30.9	92.8
134	24.2	11.7	35.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

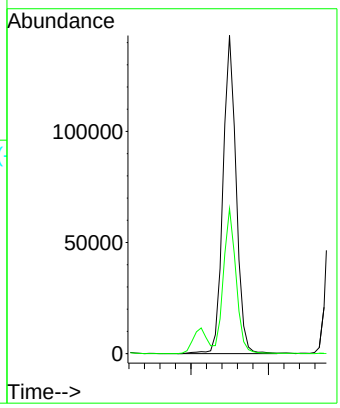
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

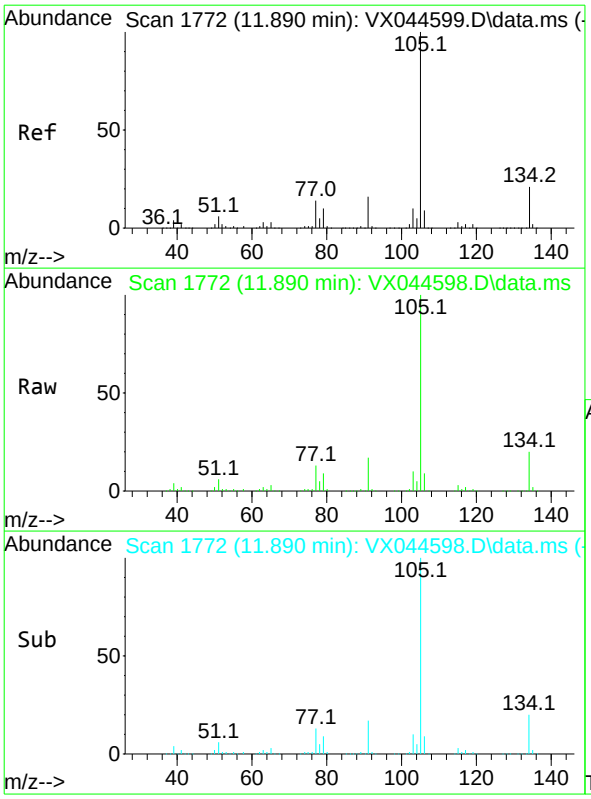


#84
1,2,4-Trimethylbenzene
Concen: 21.745 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion:105 Resp: 168552

Ion	Ratio	Lower	Upper
105	100		
120	43.7	21.9	65.7

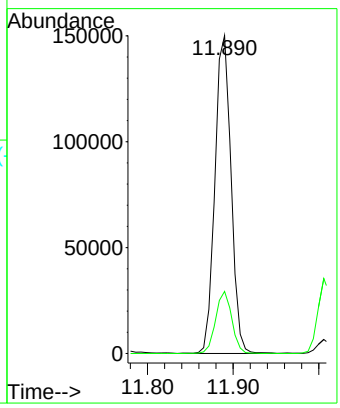




#85
sec-Butylbenzene
Concen: 21.010 ug/l
RT: 11.890 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion:105 Resp: 196607

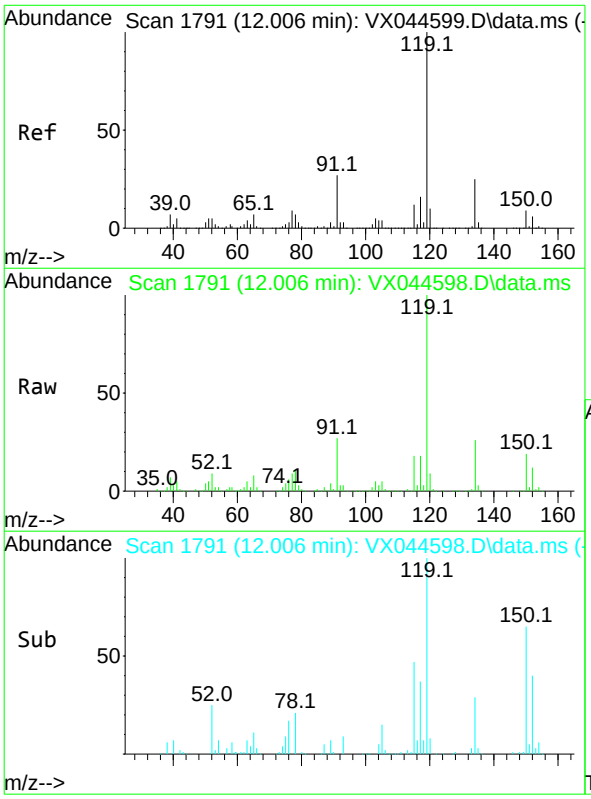
Ion	Ratio	Lower	Upper
105	100		
134	19.6	9.9	29.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

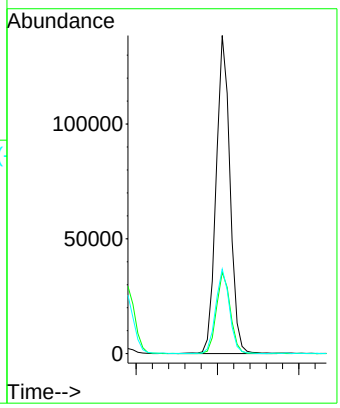
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

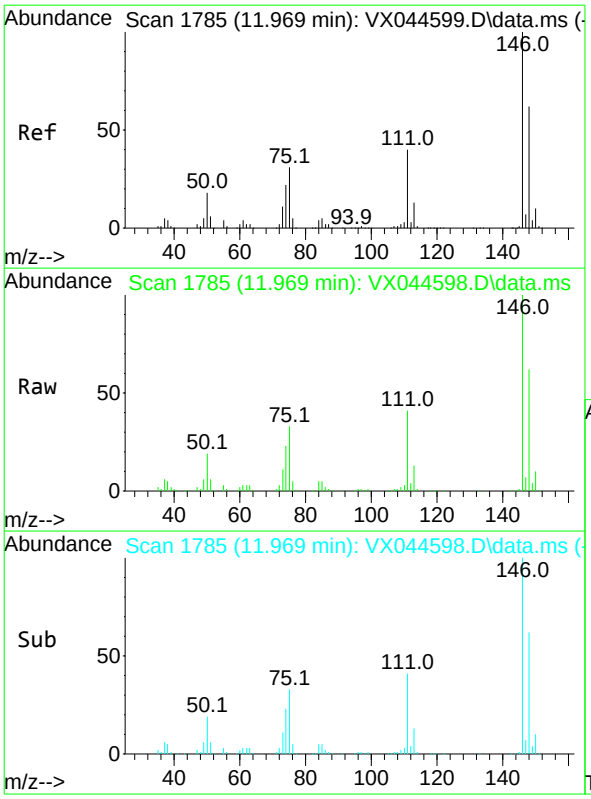


#86
p-Isopropyltoluene
Concen: 20.932 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion:119 Resp: 164348

Ion	Ratio	Lower	Upper
119	100		
134	25.4	12.6	37.8
91	26.3	13.1	39.1

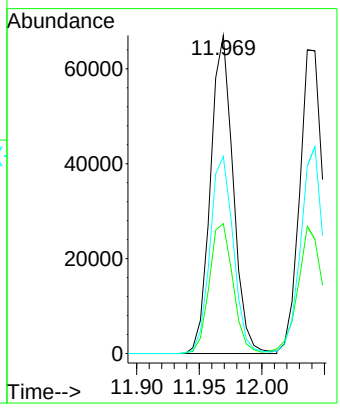




#87
1,3-Dichlorobenzene
Concen: 20.681 ug/l
RT: 11.969 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion:146 Resp: 84583

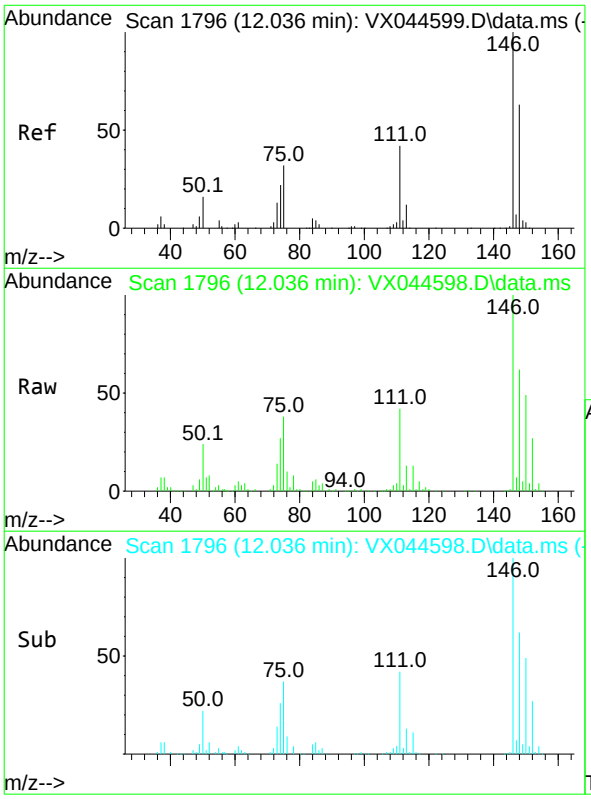
Ion	Ratio	Lower	Upper
146	100		
111	42.5	21.0	63.0
148	63.8	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

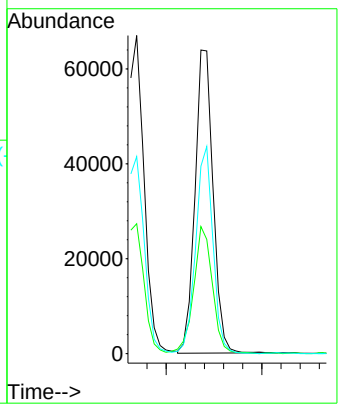
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

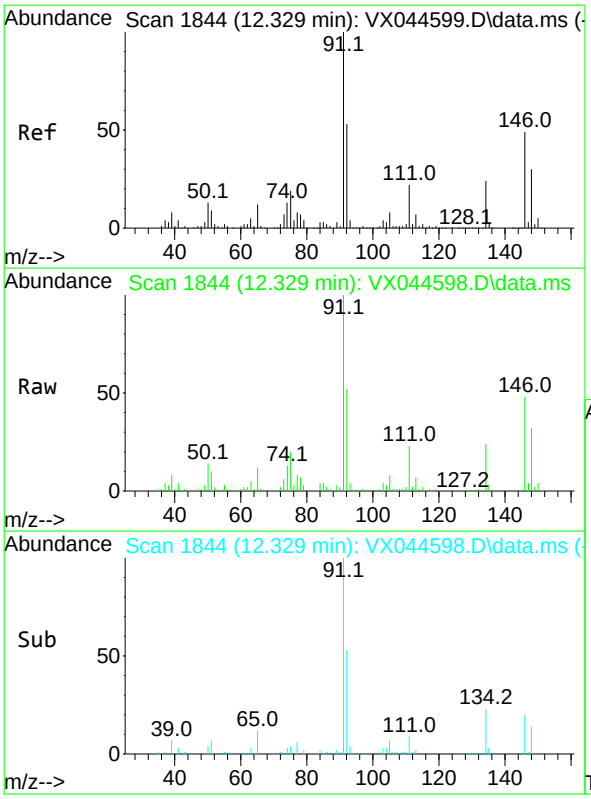


#88
1,4-Dichlorobenzene
Concen: 19.638 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion:146 Resp: 83680

Ion	Ratio	Lower	Upper
146	100		
111	43.7	20.7	62.1
148	65.4	31.8	95.4





#89
n-Butylbenzene
Concen: 20.864 ug/l
RT: 12.329 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

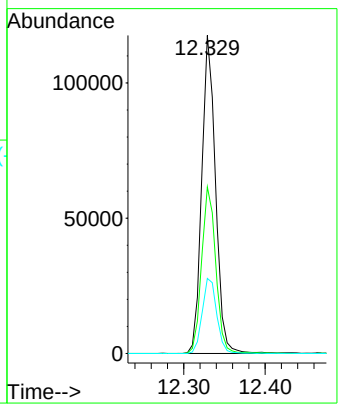
Tgt Ion: 91 Resp: 138330

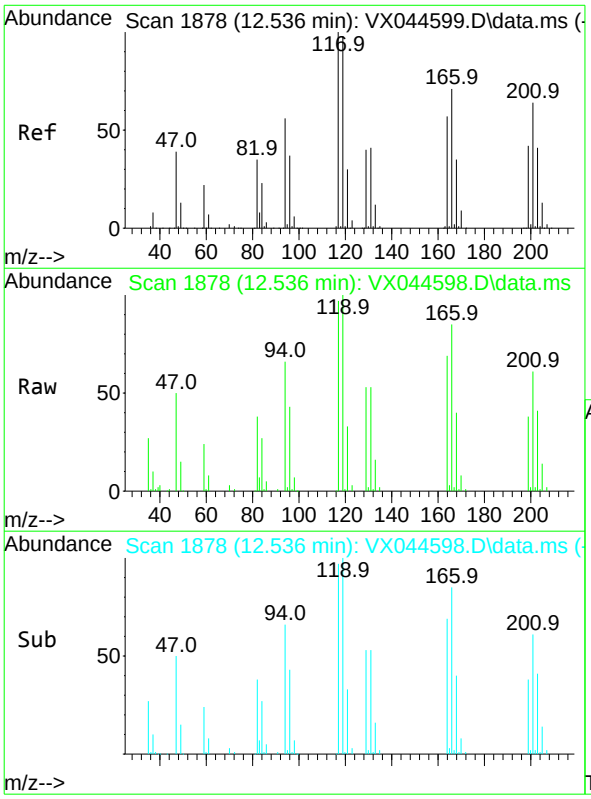
Ion	Ratio	Lower	Upper
91	100		
92	54.0	26.5	79.4
134	25.0	12.4	37.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

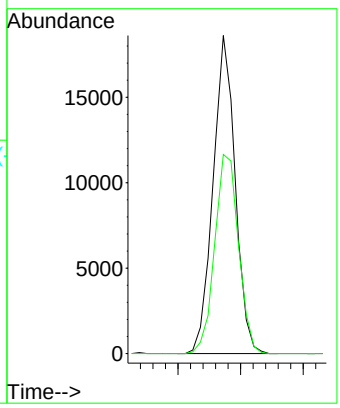


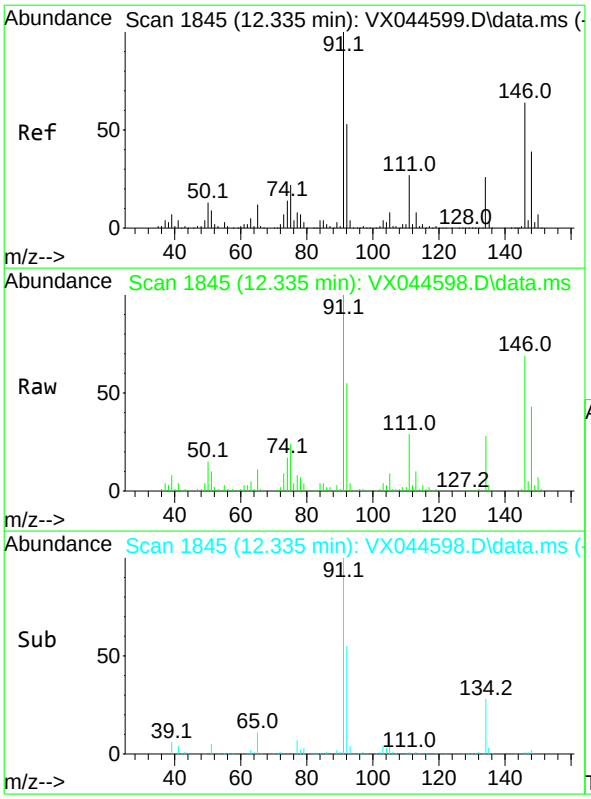


#90
Hexachloroethane
Concen: 18.096 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion:117 Resp: 22825

Ion	Ratio	Lower	Upper
117	100		
201	67.5	33.6	100.6

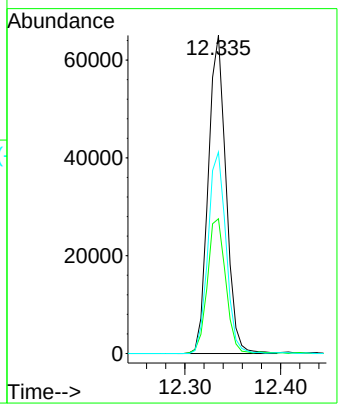




#91
1,2-Dichlorobenzene
Concen: 20.296 ug/l
RT: 12.335 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion:146 Resp: 83880

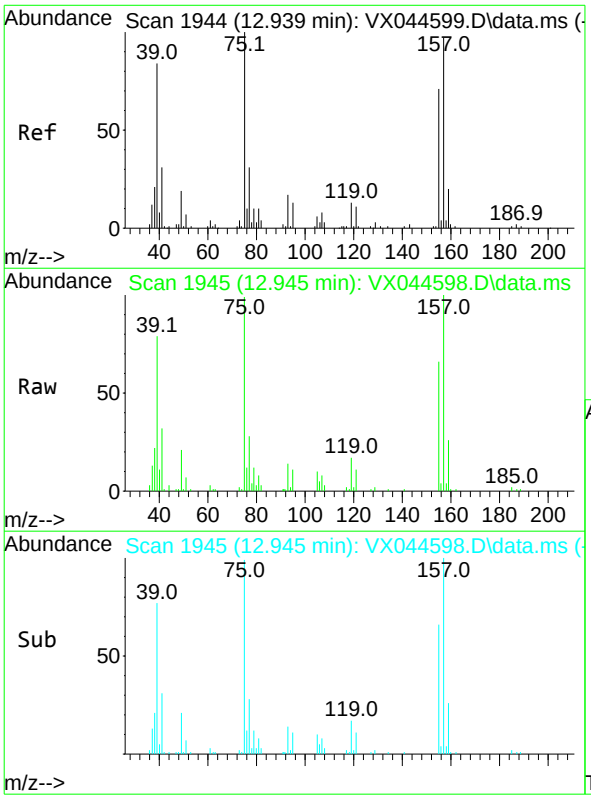
Ion	Ratio	Lower	Upper
146	100		
111	43.5	21.8	65.4
148	63.9	31.1	93.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

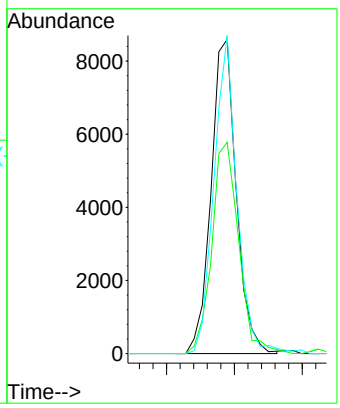
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

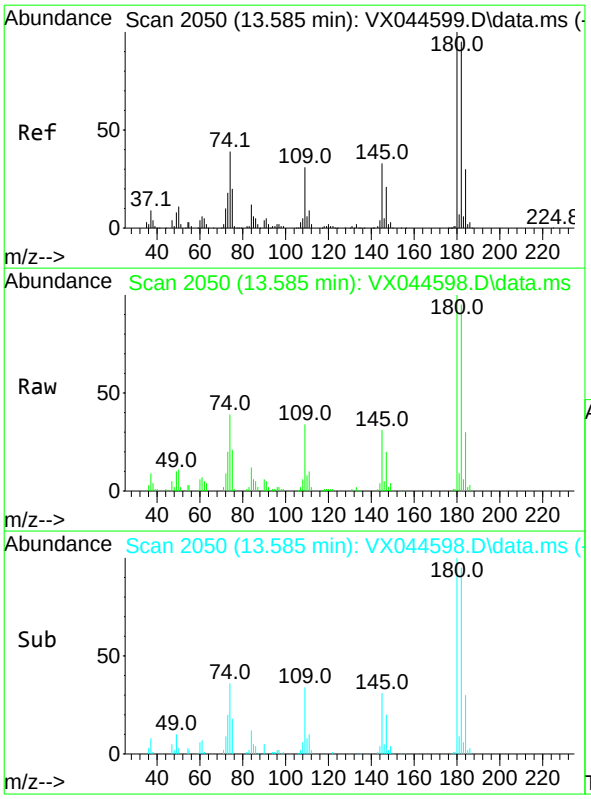


#92
1,2-Dibromo-3-Chloropropane
Concen: 19.520 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. 0.006 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 75 Resp: 11101

Ion	Ratio	Lower	Upper
75	100		
155	71.2	37.4	112.1
157	92.6	48.0	144.2

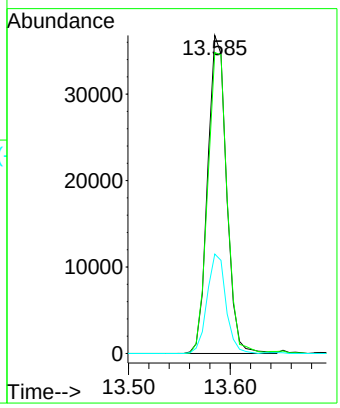




#93
1,2,4-Trichlorobenzene
Concen: 19.494 ug/l
RT: 13.585 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion:180 Resp: 47350

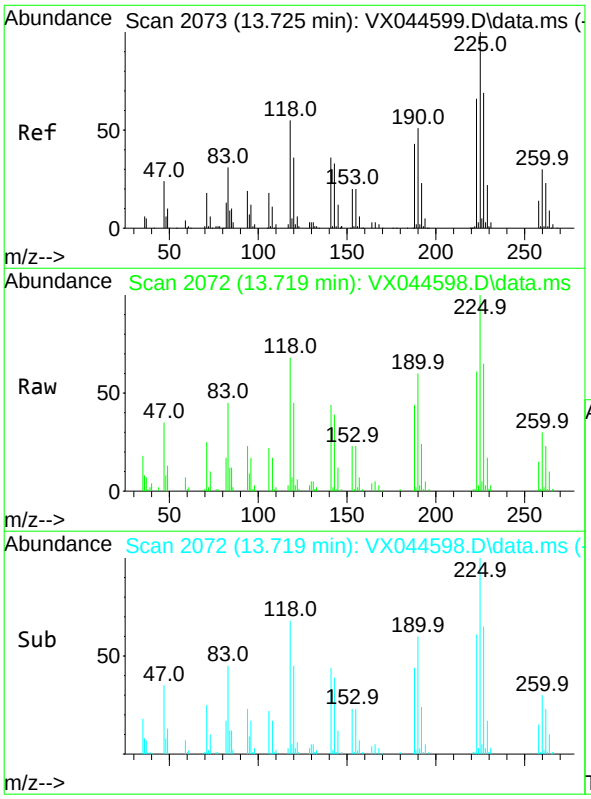
Ion	Ratio	Lower	Upper
180	100		
182	97.2	47.9	143.6
145	31.1	16.3	48.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

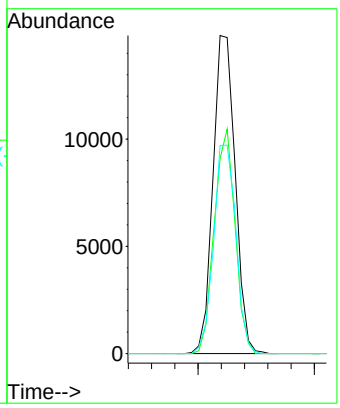
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

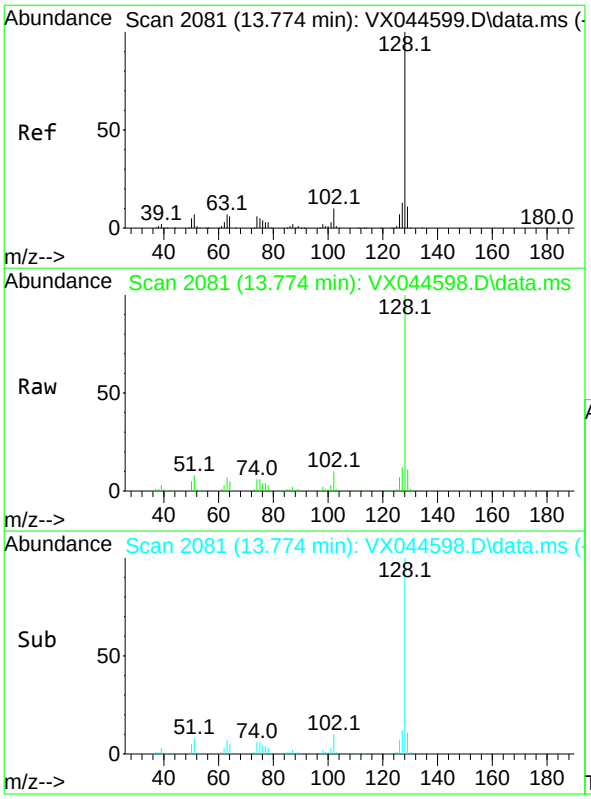


#94
Hexachlorobutadiene
Concen: 19.419 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. -0.006 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion:225 Resp: 19641

Ion	Ratio	Lower	Upper
225	100		
223	66.1	31.6	94.8
227	66.2	31.9	95.9

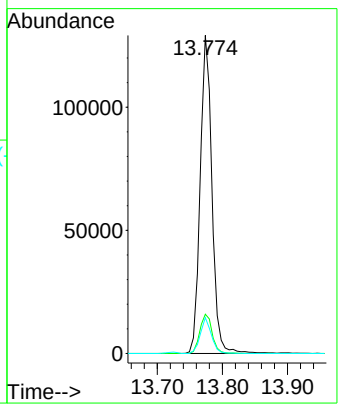




#95
Naphthalene
Concen: 20.691 ug/l
RT: 13.774 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion:128 Resp: 162161

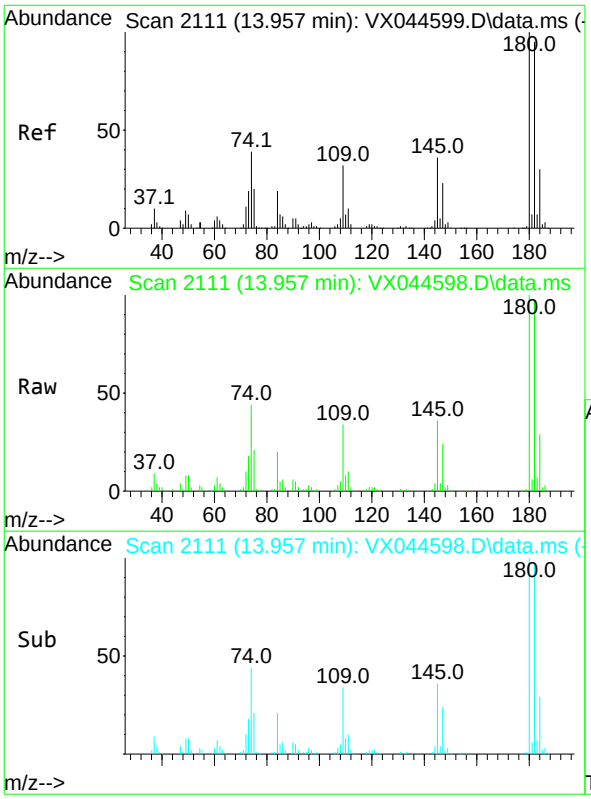
Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.5	15.7
129	10.7	8.6	13.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

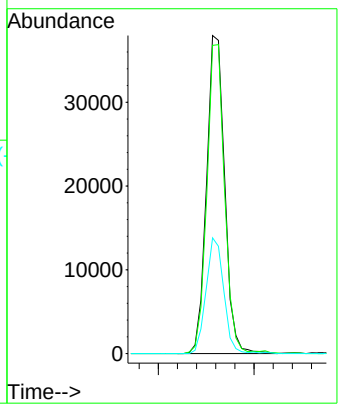
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025



#96
1,2,3-Trichlorobenzene
Concen: 20.082 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion:180 Resp: 49865

Ion	Ratio	Lower	Upper
180	100		
182	95.3	47.6	142.9
145	35.6	17.6	52.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044599.D
Acq On : 07 Jan 2025 11:14
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 08 02:30:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 02:18:40 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	173796	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	298796	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	260263	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	121154	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	142022	50.681	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 101.360%			
35) Dibromofluoromethane	5.379	113	100169	48.890	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 97.780%			
50) Toluene-d8	8.647	98	345428	49.357	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 98.720%			
62) 4-Bromofluorobenzene	11.079	95	123925	50.167	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 100.340%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	135433	53.857	ug/l	100
3) Chloromethane	1.294	50	127949	51.059	ug/l	100
4) Vinyl Chloride	1.374	62	123312	52.455	ug/l	100
5) Bromomethane	1.599	94	64161	52.690	ug/l	100
6) Chloroethane	1.666	64	56267	45.086	ug/l	100
7) Trichlorofluoromethane	1.874	101	188382	53.818	ug/l	100
8) Diethyl Ether	2.130	74	60770	49.134	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.319	101	102129	50.888	ug/l	100
10) Methyl Iodide	2.447	142	141008	50.386	ug/l	100
11) Tert butyl alcohol	3.008	59	87895	254.724	ug/l	100
12) 1,1-Dichloroethene	2.313	96	97703	50.252	ug/l	100
13) Acrolein	2.233	56	115577	253.331	ug/l	100
14) Allyl chloride	2.660	41	175824	54.375	ug/l	100
15) Acrylonitrile	3.062	53	265554	267.216	ug/l	100
16) Acetone	2.380	43	238611	270.163	ug/l	100
17) Carbon Disulfide	2.508	76	212108	52.759	ug/l	100
18) Methyl Acetate	2.703	43	134854	51.731	ug/l	100
19) Methyl tert-butyl Ether	3.111	73	356440	53.495	ug/l	100
20) Methylene Chloride	2.782	84	114236	50.698	ug/l	100
21) trans-1,2-Dichloroethene	3.087	96	100853	50.541	ug/l	100
22) Diisopropyl ether	3.757	45	361827	54.433	ug/l	100
23) Vinyl Acetate	3.715	43	1546132	287.640	ug/l	100
24) 1,1-Dichloroethane	3.605	63	205366	53.022	ug/l	100
25) 2-Butanone	4.556	43	355382	278.769	ug/l	100
26) 2,2-Dichloropropane	4.471	77	175192	52.316	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	127058	52.219	ug/l	100
28) Bromochloromethane	4.891	49	95194	52.799	ug/l	100
29) Tetrahydrofuran	5.001	42	230689	264.250	ug/l	100
30) Chloroform	5.086	83	217765	52.153	ug/l	100
31) Cyclohexane	5.458	56	165559	52.061	ug/l	100
32) 1,1,1-Trichloroethane	5.379	97	188854	53.743	ug/l	100
36) 1,1-Dichloropropene	5.690	75	139122	52.511	ug/l	100
37) Ethyl Acetate	4.709	43	146801	54.207	ug/l	100
38) Carbon Tetrachloride	5.672	117	154084	52.418	ug/l	100
39) Methylcyclohexane	7.373	83	173252	51.250	ug/l	100
40) Benzene	6.031	78	432755	51.878	ug/l	100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044599.D
Acq On : 07 Jan 2025 11:14
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 08 02:30:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 02:18:40 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.922	41	81440	55.981	ug/l		100
42) 1,2-Dichloroethane	6.080	62	178915	54.843	ug/l		100
43) Isopropyl Acetate	6.336	43	244614	54.708	ug/l		100
44) Trichloroethene	7.117	130	104250	48.889	ug/l		100
45) 1,2-Dichloropropane	7.428	63	108161	53.181	ug/l		100
46) Dibromomethane	7.574	93	82588	52.214	ug/l		100
47) Bromodichloromethane	7.818	83	156703	54.442	ug/l		100
48) Methyl methacrylate	7.690	41	122740	57.554	ug/l		100
49) 1,4-Dioxane	7.665	88	34918	1114.222	ug/l		100
51) 4-Methyl-2-Pentanone	8.574	43	733011	280.449	ug/l		100
52) Toluene	8.714	92	262398	52.133	ug/l		100
53) t-1,3-Dichloropropene	8.976	75	155029	56.347	ug/l		100
54) cis-1,3-Dichloropropene	8.360	75	170387	55.104	ug/l		100
55) 1,1,2-Trichloroethane	9.147	97	103084	52.243	ug/l		100
56) Ethyl methacrylate	9.116	69	162744	56.713	ug/l		100
57) 1,3-Dichloropropane	9.305	76	178595	53.900	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	392900	276.185	ug/l		100
59) 2-Hexanone	9.433	43	535861	289.895	ug/l		100
60) Dibromochloromethane	9.519	129	109924	55.871	ug/l		100
61) 1,2-Dibromoethane	9.604	107	104426	52.401	ug/l		100
64) Tetrachloroethene	9.269	164	90002	48.910	ug/l		100
65) Chlorobenzene	10.079	112	283093	51.250	ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.159	131	96419	52.556	ug/l		100
67) Ethyl Benzene	10.189	91	501840	52.906	ug/l		100
68) m/p-Xylenes	10.299	106	372279	106.805	ug/l		100
69) o-Xylene	10.640	106	181228	51.512	ug/l		100
70) Styrene	10.653	104	309043	54.919	ug/l		100
71) Bromoform	10.799	173	64456	50.124	ug/l	#	100
73) Isopropylbenzene	10.957	105	470691	52.439	ug/l		100
74) N-amyl acetate	10.842	43	207077	56.857	ug/l		100
75) 1,1,2,2-Tetrachloroethane	11.207	83	152021	52.544	ug/l		100
76) 1,2,3-Trichloropropane	11.238	75	126349m	52.024	ug/l		
77) Bromobenzene	11.195	156	112135	51.427	ug/l		100
78) n-propylbenzene	11.299	91	545301	53.936	ug/l		100
79) 2-Chlorotoluene	11.360	91	337686	51.544	ug/l		100
80) 1,3,5-Trimethylbenzene	11.451	105	400300	53.787	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	43281	54.247	ug/l		100
82) 4-Chlorotoluene	11.451	91	387640	52.596	ug/l		100
83) tert-Butylbenzene	11.713	119	390758	52.730	ug/l		100
84) 1,2,4-Trimethylbenzene	11.750	105	401606	53.720	ug/l		100
85) sec-Butylbenzene	11.890	105	475025	52.634	ug/l		100
86) p-Isopropyltoluene	12.006	119	408205	53.905	ug/l		100
87) 1,3-Dichlorobenzene	11.969	146	204488	51.842	ug/l		100
88) 1,4-Dichlorobenzene	12.036	146	204130	49.670	ug/l		100
89) n-Butylbenzene	12.329	91	354854	55.495	ug/l		100
90) Hexachloroethane	12.536	117	62782	51.608	ug/l		100
91) 1,2-Dichlorobenzene	12.335	146	205860	51.646	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	12.939	75	30135	54.942	ug/l		100
93) 1,2,4-Trichlorobenzene	13.585	180	120511	51.442	ug/l		100
94) Hexachlorobutadiene	13.725	225	49357	50.597	ug/l		100
95) Naphthalene	13.774	128	412247	54.539	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	123494	51.567	ug/l		100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044599.D
Acq On : 07 Jan 2025 11:14
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

Quant Time: Jan 08 02:30:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 02:18:40 2025
Response via : Initial Calibration

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

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

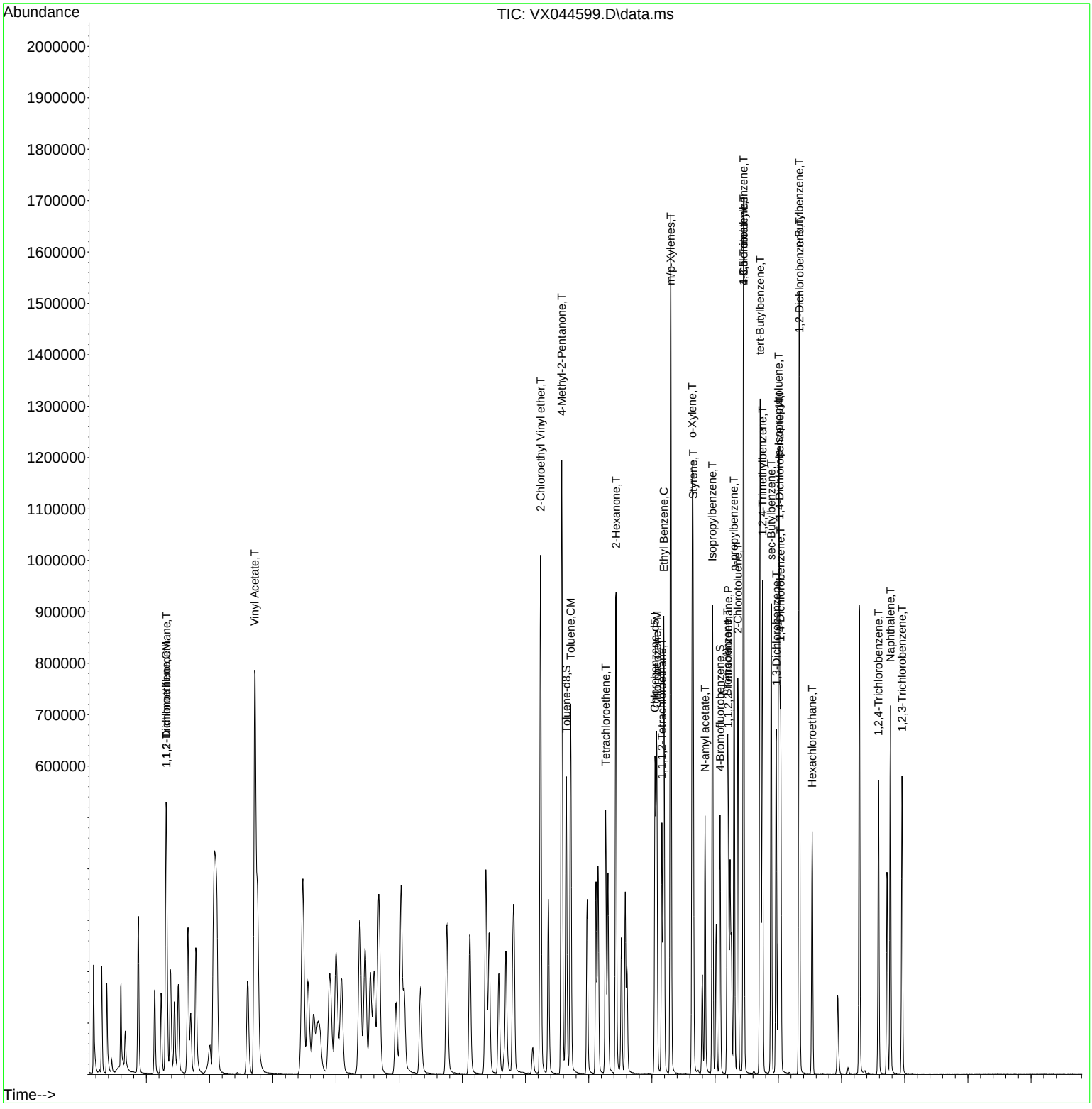
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044599.D
Acq On : 07 Jan 2025 11:14
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

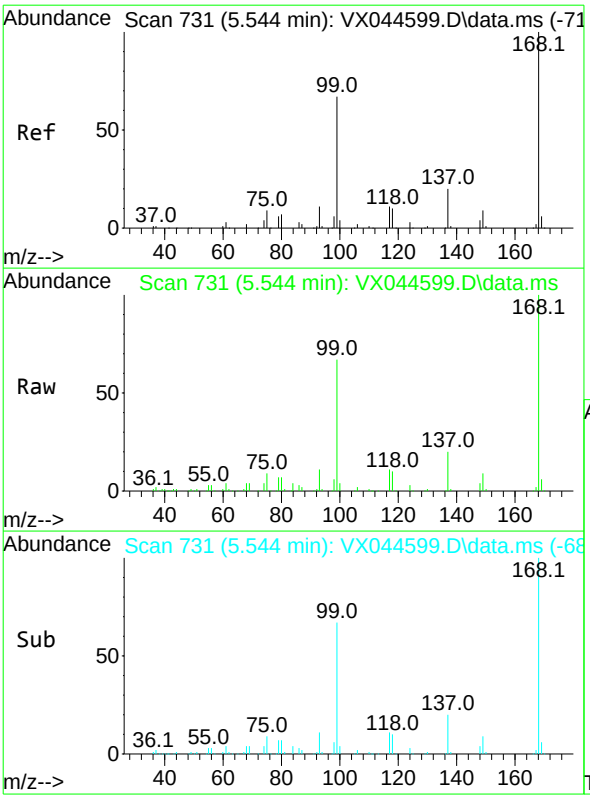
Quant Time: Jan 08 02:30:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 02:18:40 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

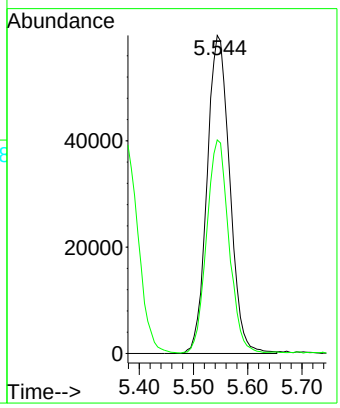




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 73
Delta R.T. -0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion:168 Resp: 173796

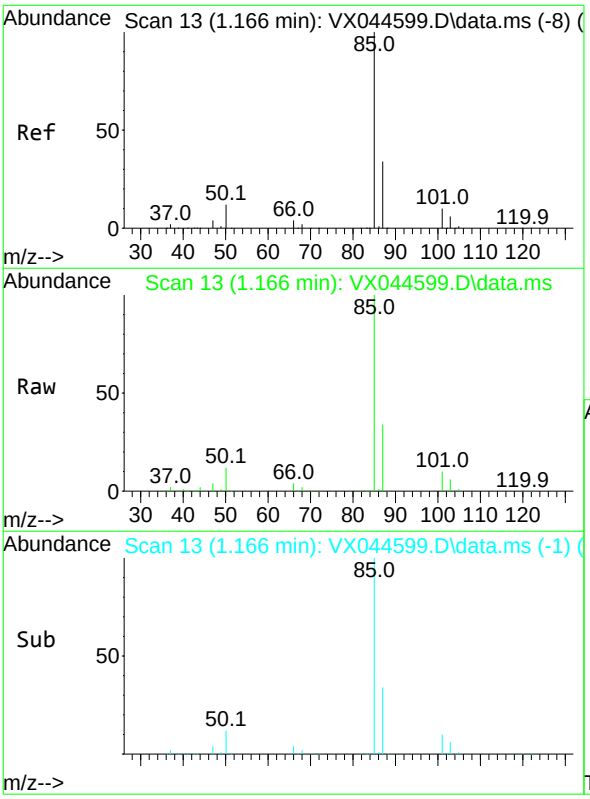
Ion	Ratio	Lower	Upper
168	100		
99	66.9	53.5	80.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

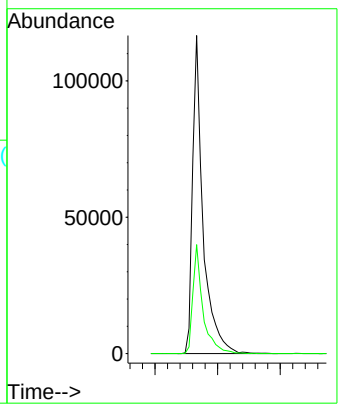
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

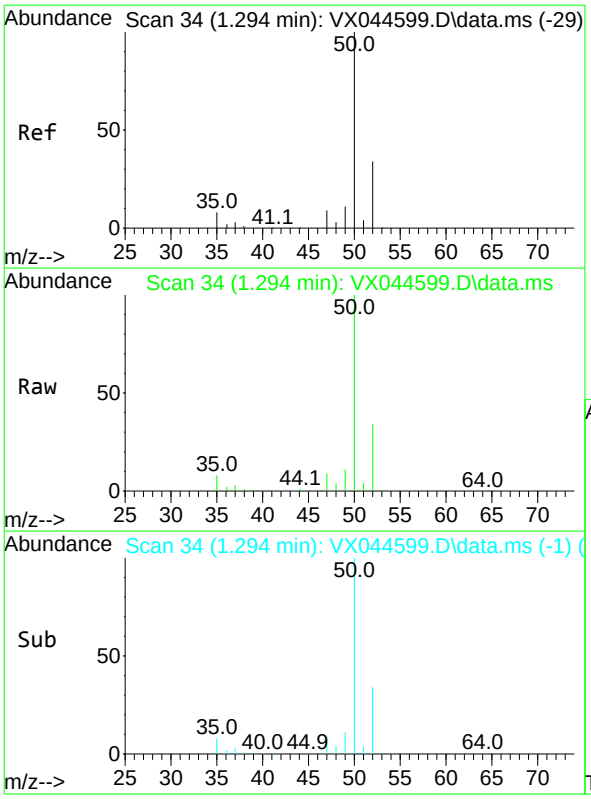


#2
Dichlorodifluoromethane
Concen: 53.857 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 85 Resp: 135433

Ion	Ratio	Lower	Upper
85	100		
87	34.3	17.2	51.5

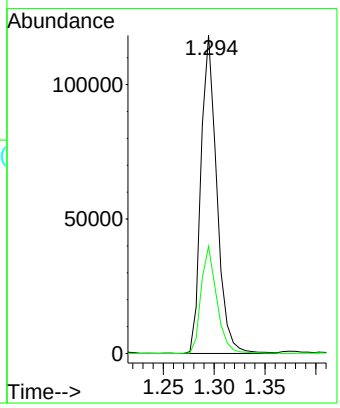




#3
Chloromethane
Concen: 51.059 ug/l
RT: 1.294 min Scan# 34
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 50 Resp: 127949

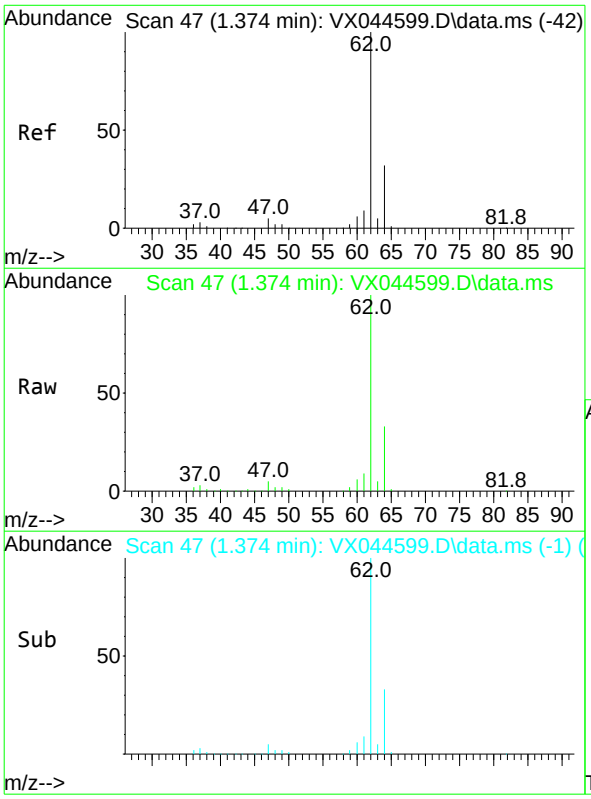
Ion	Ratio	Lower	Upper
50	100		
52	33.7	27.0	40.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

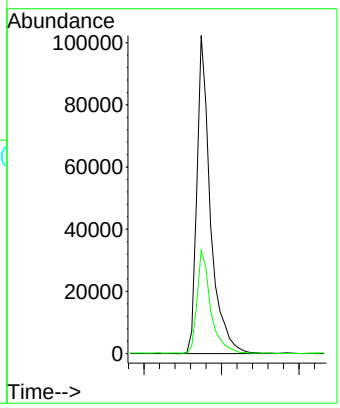
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

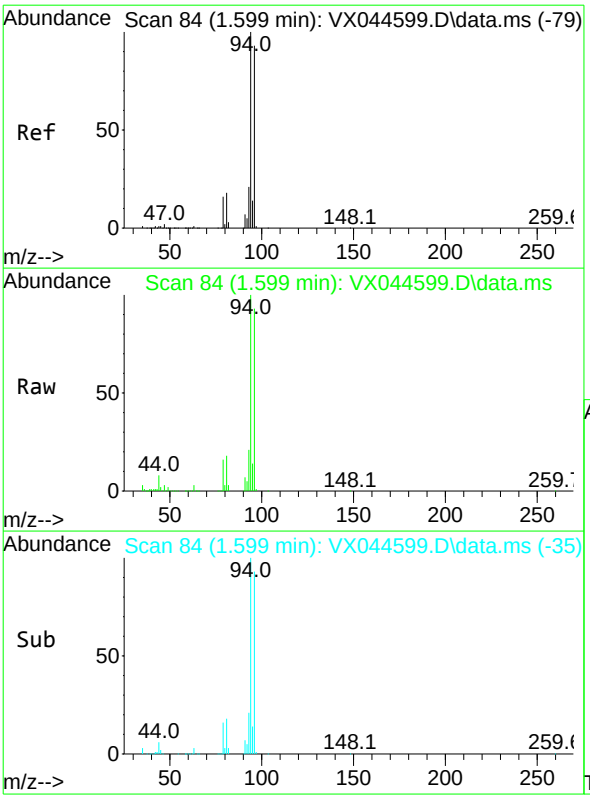


#4
Vinyl Chloride
Concen: 52.455 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 62 Resp: 123312

Ion	Ratio	Lower	Upper
62	100		
64	32.5	26.0	39.0

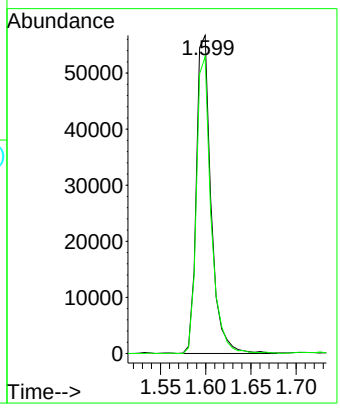




#5
Bromomethane
Concen: 52.690 ug/l
RT: 1.599 min Scan# 84
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 94 Resp: 64161

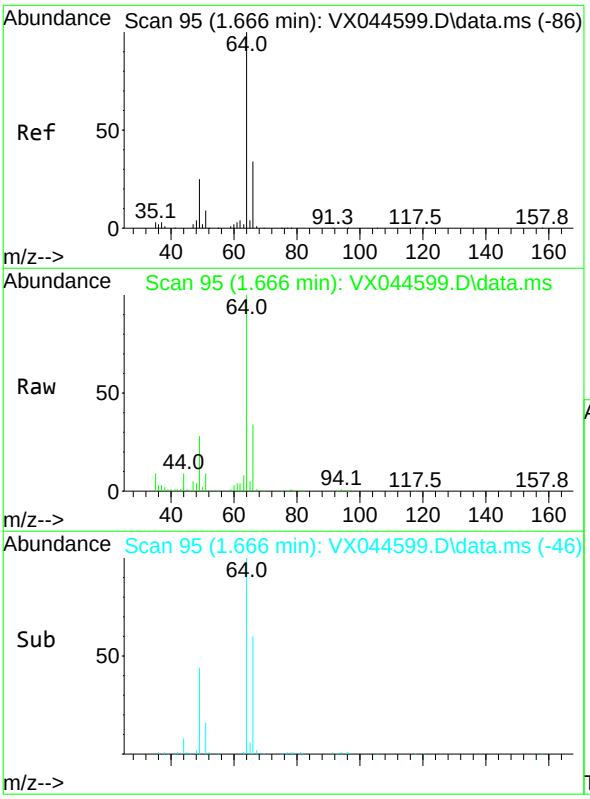
Ion	Ratio	Lower	Upper
94	100		
96	93.3	74.6	112.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

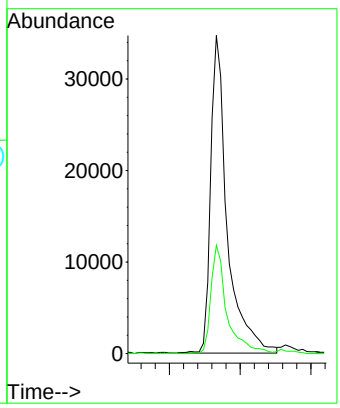
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

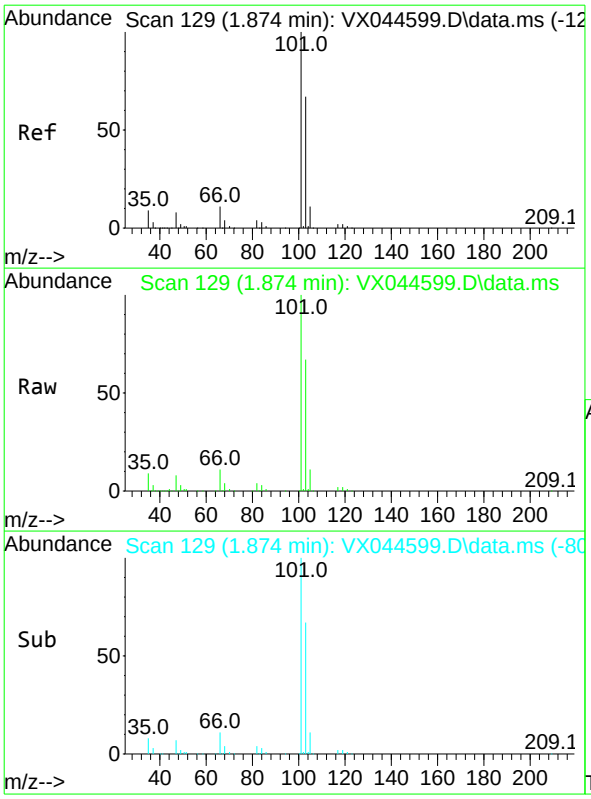


#6
Chloroethane
Concen: 45.086 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 64 Resp: 56267

Ion	Ratio	Lower	Upper
64	100		
66	34.1	27.3	40.9

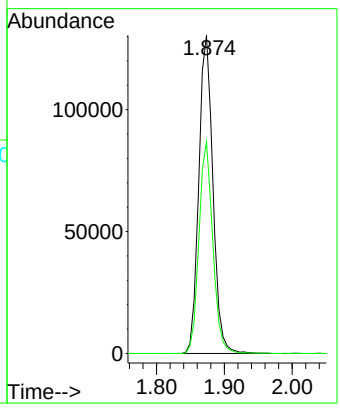




#7
Trichlorofluoromethane
Concen: 53.818 ug/l
RT: 1.874 min Scan# 12
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion:101 Resp: 188382

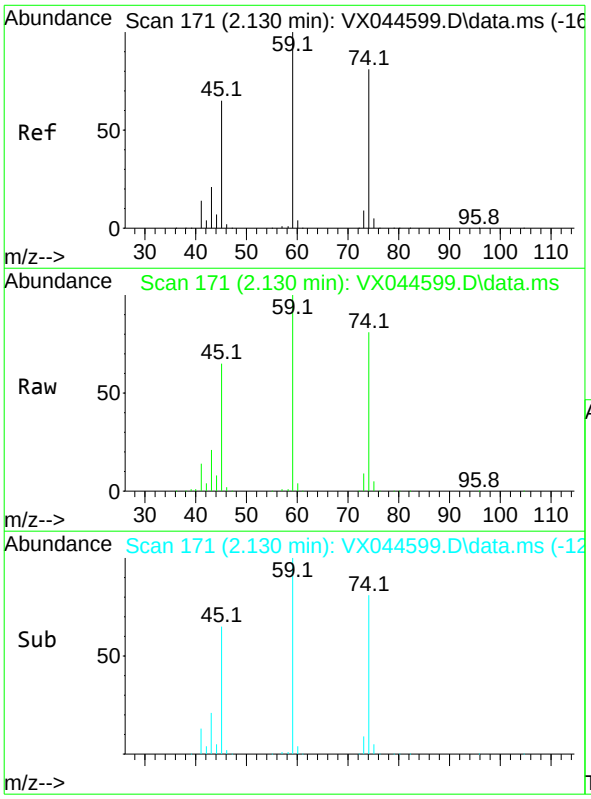
Ion	Ratio	Lower	Upper
101	100		
103	66.6	53.3	79.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

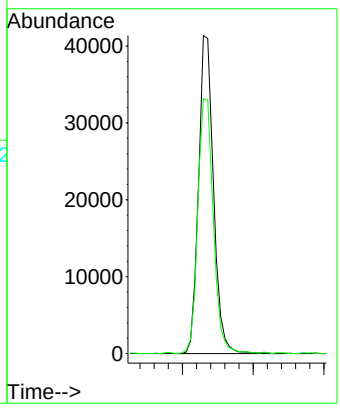
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

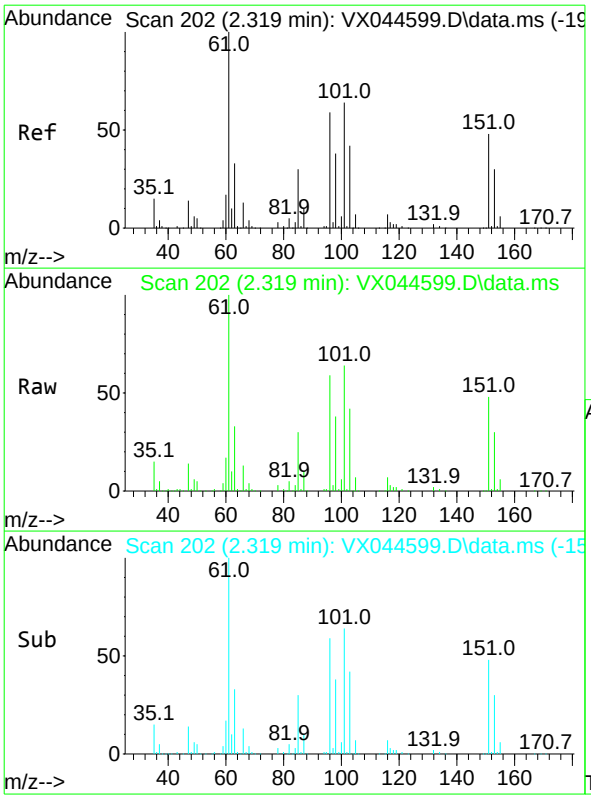


#8
Diethyl Ether
Concen: 49.134 ug/l
RT: 2.130 min Scan# 171
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 74 Resp: 60770

Ion	Ratio	Lower	Upper
74	100		
45	83.4	41.7	125.1





#9
1,1,2-Trichlorotrifluoroethane
Concen: 50.888 ug/l
RT: 2.319 min Scan# 20
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

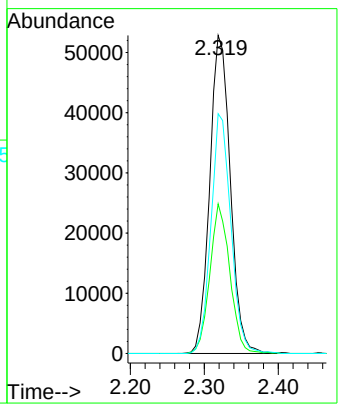
Tgt Ion:101 Resp: 102129

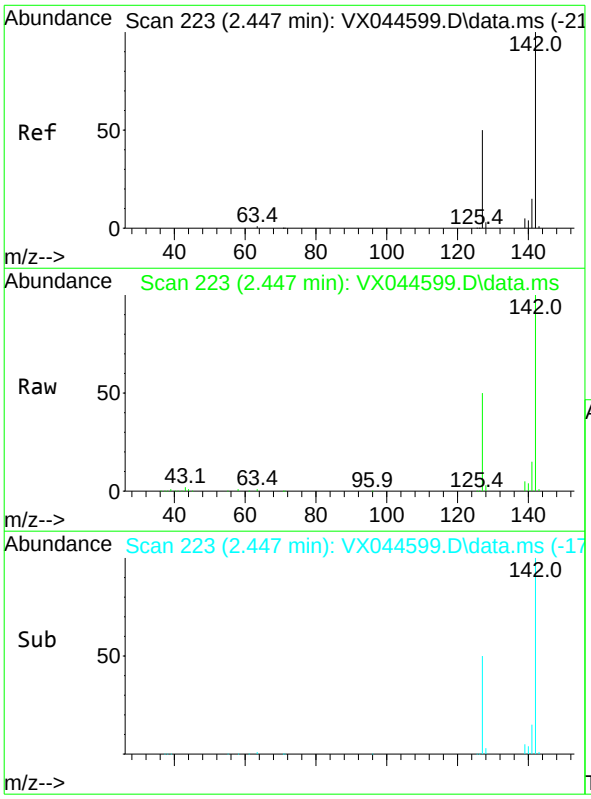
Ion	Ratio	Lower	Upper
101	100		
85	45.6	36.5	54.7
151	73.2	58.6	87.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

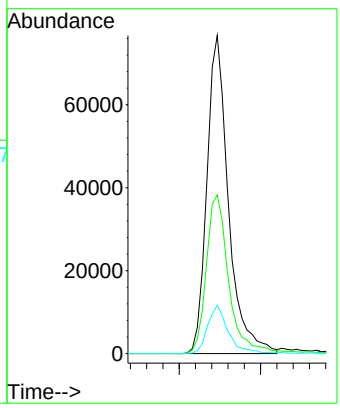


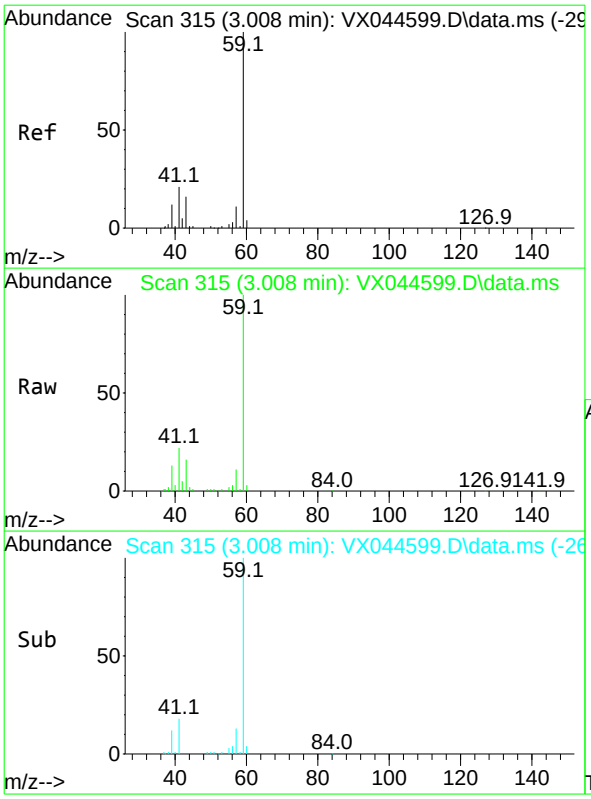


#10
Methyl Iodide
Concen: 50.386 ug/l
RT: 2.447 min Scan# 223
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion:142 Resp: 141008

Ion	Ratio	Lower	Upper
142	100		
127	52.4	41.9	62.9
141	14.7	11.8	17.6

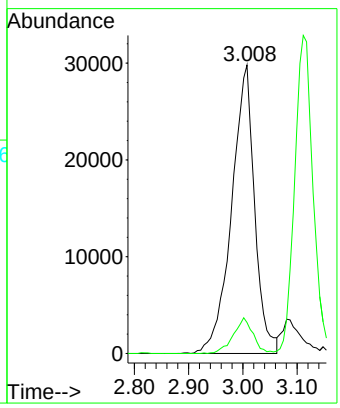




#11
Tert butyl alcohol
Concen: 254.724 ug/l
RT: 3.008 min Scan# 31
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 59 Resp: 87895

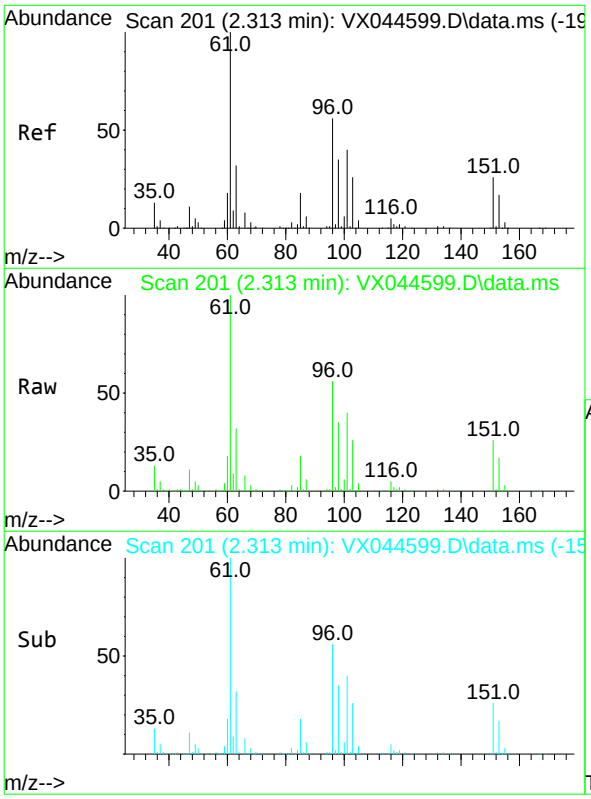
Ion	Ratio	Lower	Upper
59	100		
57	10.7	8.6	12.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

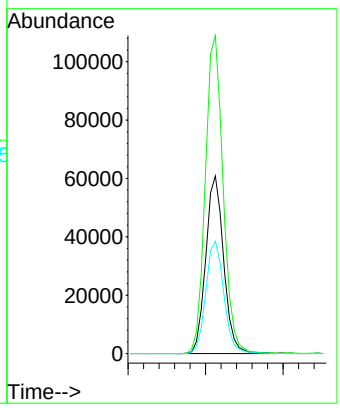
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

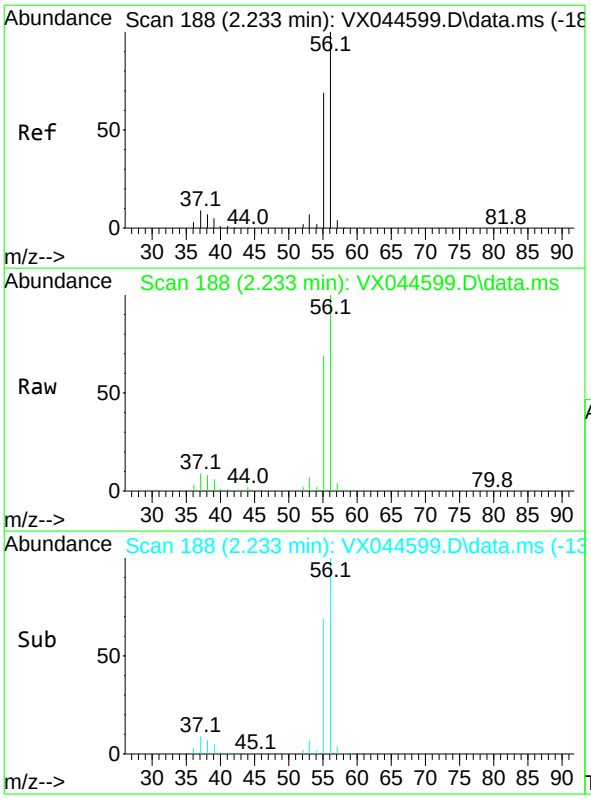


#12
1,1-Dichloroethene
Concen: 50.252 ug/l
RT: 2.313 min Scan# 201
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 96 Resp: 97703

Ion	Ratio	Lower	Upper
96	100		
61	179.1	143.3	214.9
98	63.3	50.6	76.0

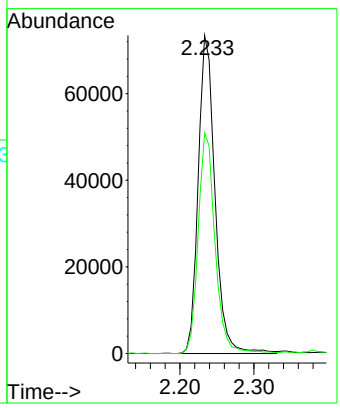




#13
Acrolein
Concen: 253.331 ug/l
RT: 2.233 min Scan# 18
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 56 Resp: 115577

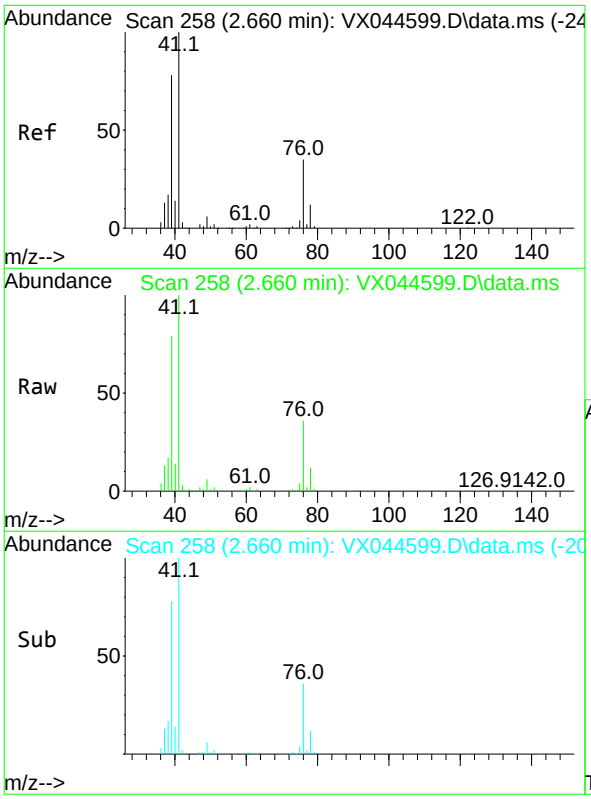
Ion	Ratio	Lower	Upper
56	100		
55	69.8	55.8	83.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

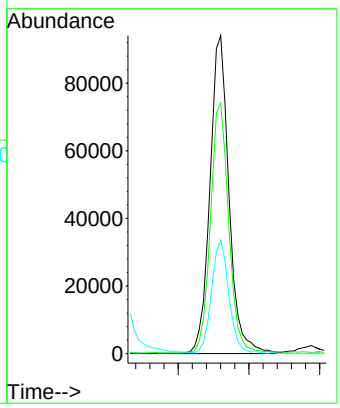
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

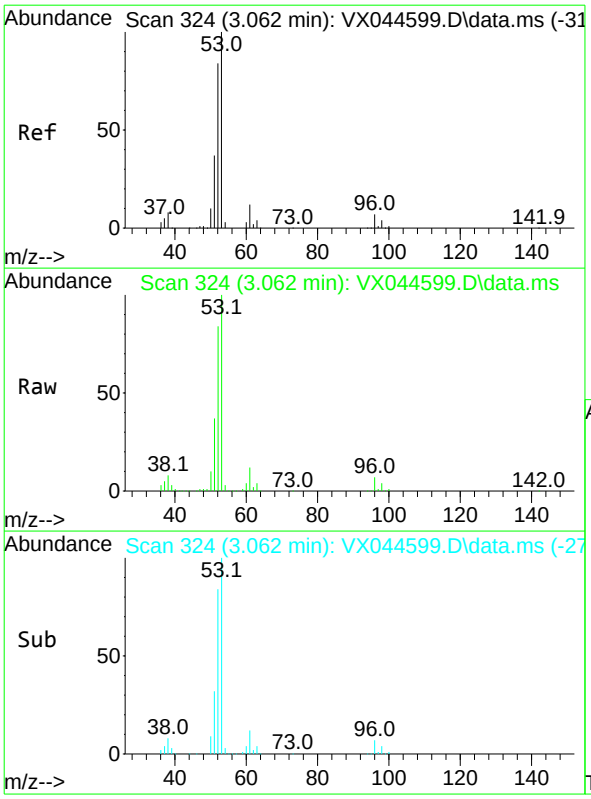


#14
Allyl chloride
Concen: 54.375 ug/l
RT: 2.660 min Scan# 258
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 41 Resp: 175824

Ion	Ratio	Lower	Upper
41	100		
39	75.2	60.2	90.2
76	32.4	25.9	38.9

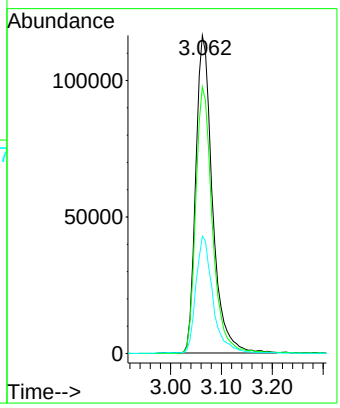




#15
Acrylonitrile
Concen: 267.216 ug/l
RT: 3.062 min Scan# 32
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 53 Resp: 265554

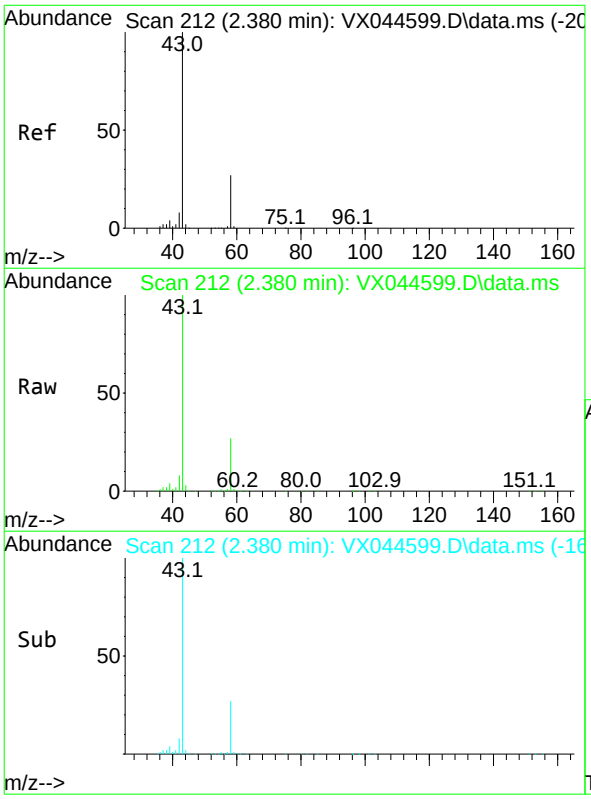
Ion	Ratio	Lower	Upper
53	100		
52	83.8	67.0	100.6
51	36.7	29.4	44.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

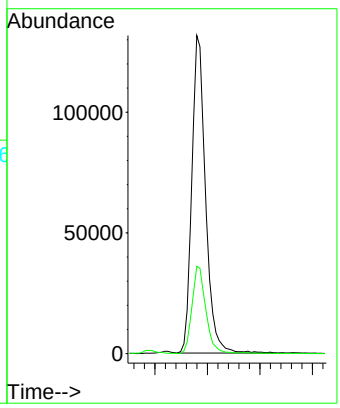
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

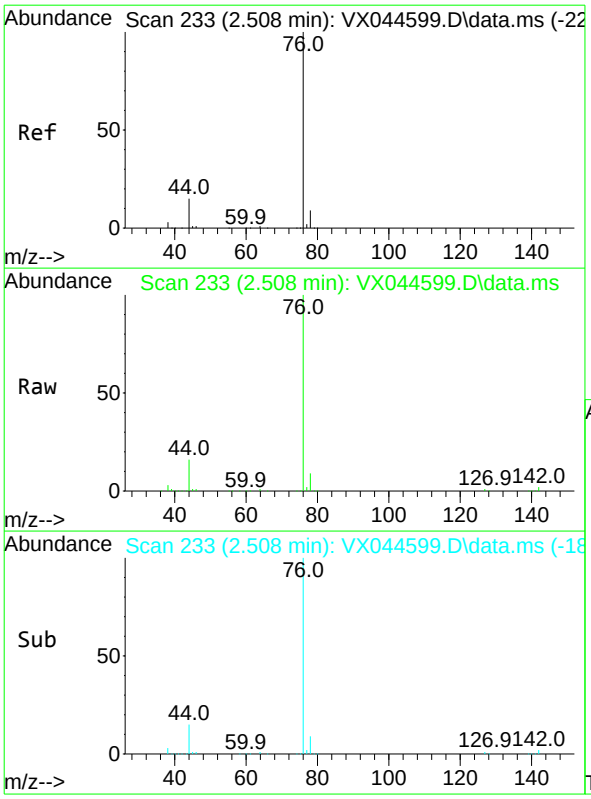


#16
Acetone
Concen: 270.163 ug/l
RT: 2.380 min Scan# 212
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 43 Resp: 238611

Ion	Ratio	Lower	Upper
43	100		
58	27.5	22.0	33.0

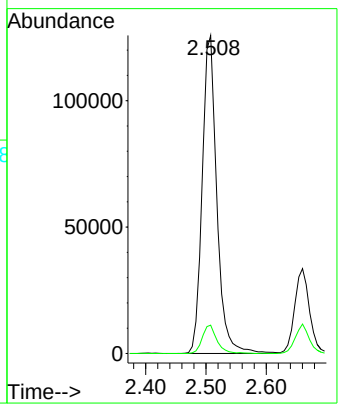




#17
Carbon Disulfide
Concen: 52.759 ug/l
RT: 2.508 min Scan# 23
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 76 Resp: 212108

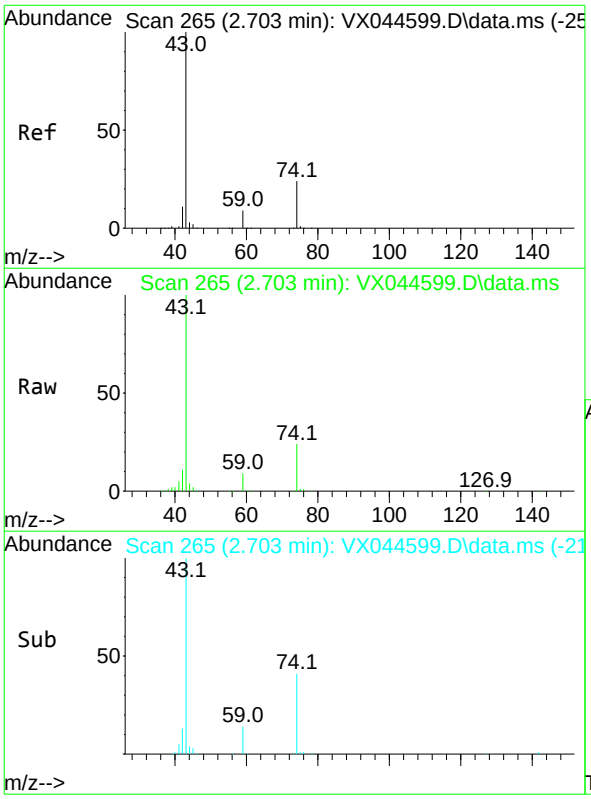
Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.1	10.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

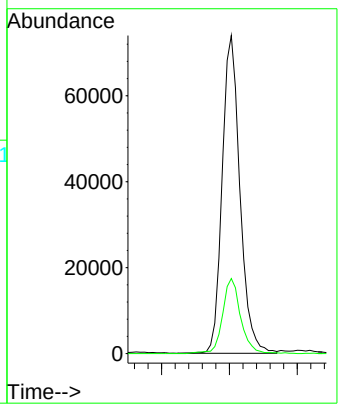
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

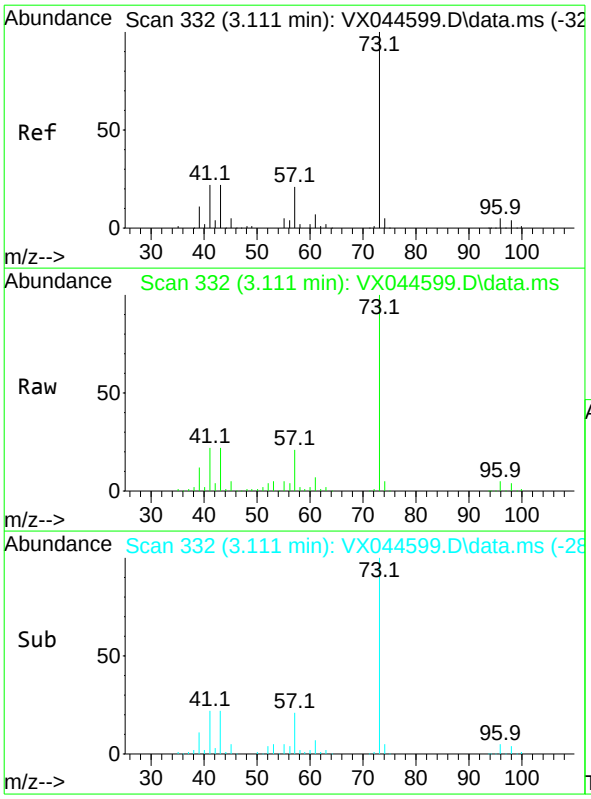


#18
Methyl Acetate
Concen: 51.731 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 43 Resp: 134854

Ion	Ratio	Lower	Upper
43	100		
74	24.1	19.3	28.9

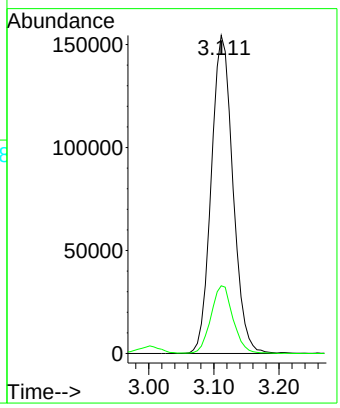




#19
Methyl tert-butyl Ether
Concen: 53.495 ug/l
RT: 3.111 min Scan# 33
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 73 Resp: 356440

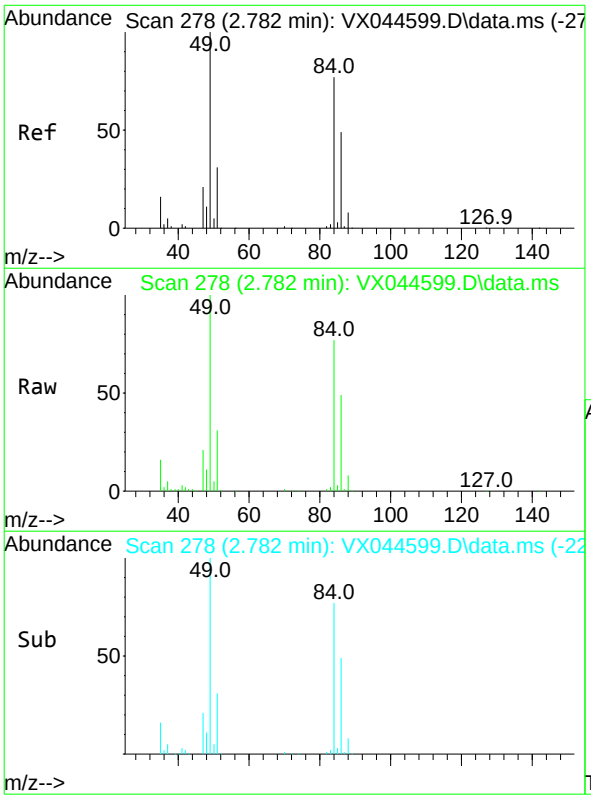
Ion	Ratio	Lower	Upper
73	100		
57	21.2	17.0	25.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

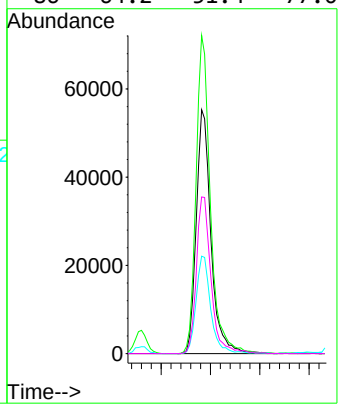
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

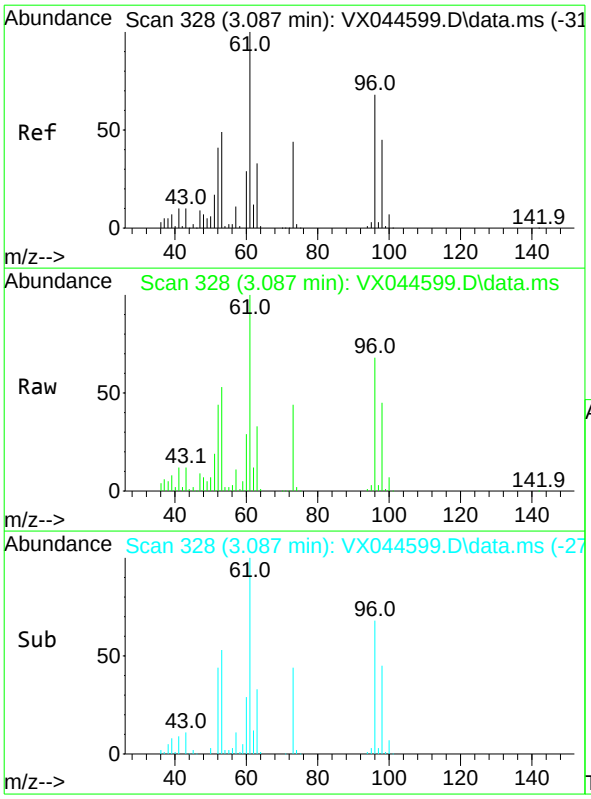


#20
Methylene Chloride
Concen: 50.698 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 84 Resp: 114236

Ion	Ratio	Lower	Upper
84	100		
49	130.5	104.4	156.6
51	40.0	32.0	48.0
86	64.2	51.4	77.0

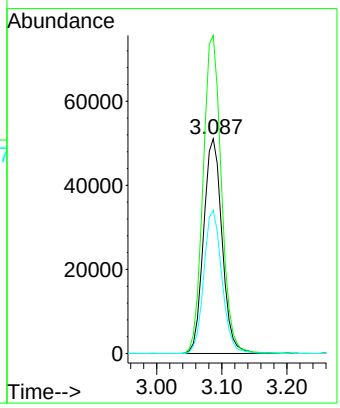




#21
trans-1,2-Dichloroethene
Concen: 50.541 ug/l
RT: 3.087 min Scan# 32
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 96 Resp: 100853

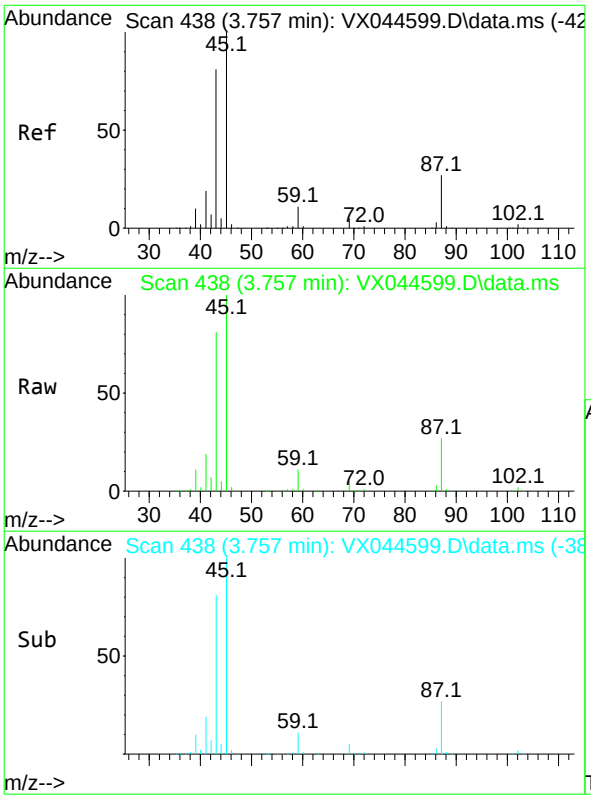
Ion	Ratio	Lower	Upper
96	100		
61	148.1	118.5	177.7
98	66.7	53.4	80.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

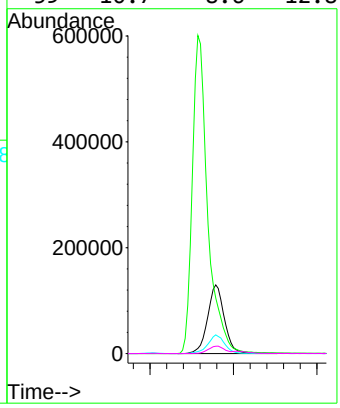
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

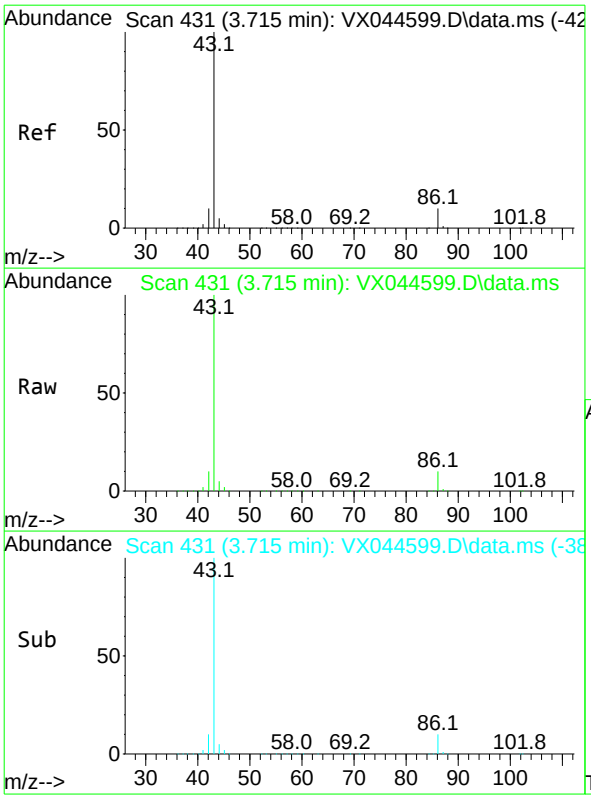


#22
Diisopropyl ether
Concen: 54.433 ug/l
RT: 3.757 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 45 Resp: 361827

Ion	Ratio	Lower	Upper
45	100		
43	80.8	64.6	97.0
87	27.3	21.8	32.8
59	10.7	8.6	12.8

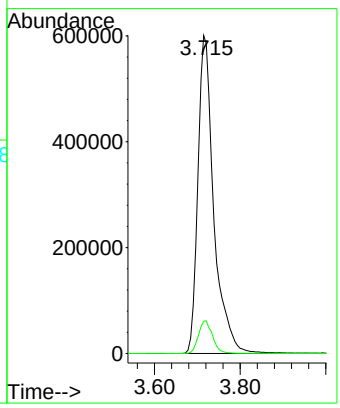




#23
Vinyl Acetate
Concen: 287.640 ug/l
RT: 3.715 min Scan# 43
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 43 Resp: 1546132

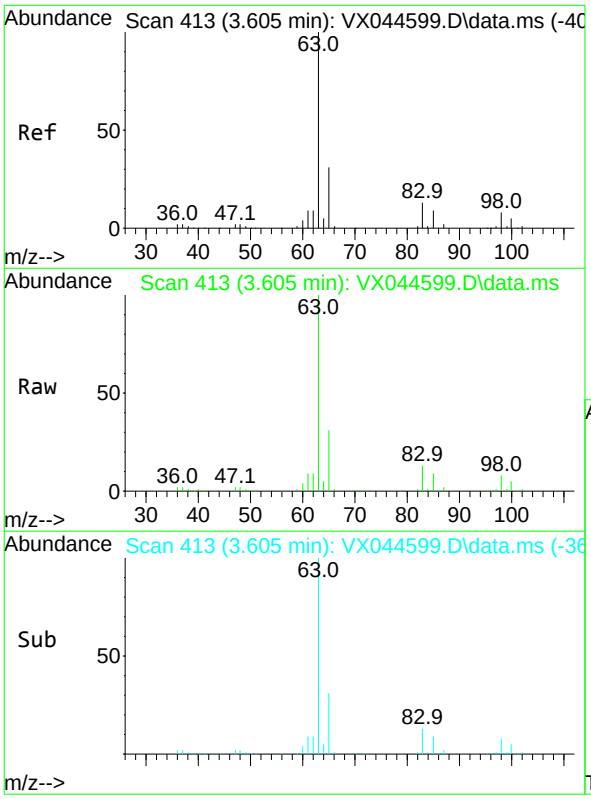
Ion	Ratio	Lower	Upper
43	100		
86	10.1	8.1	12.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

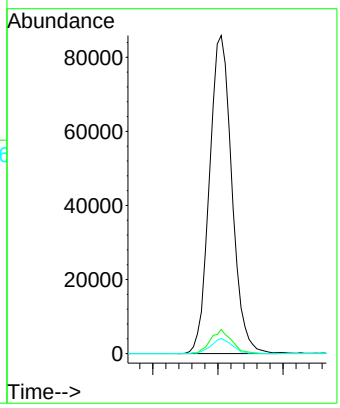
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

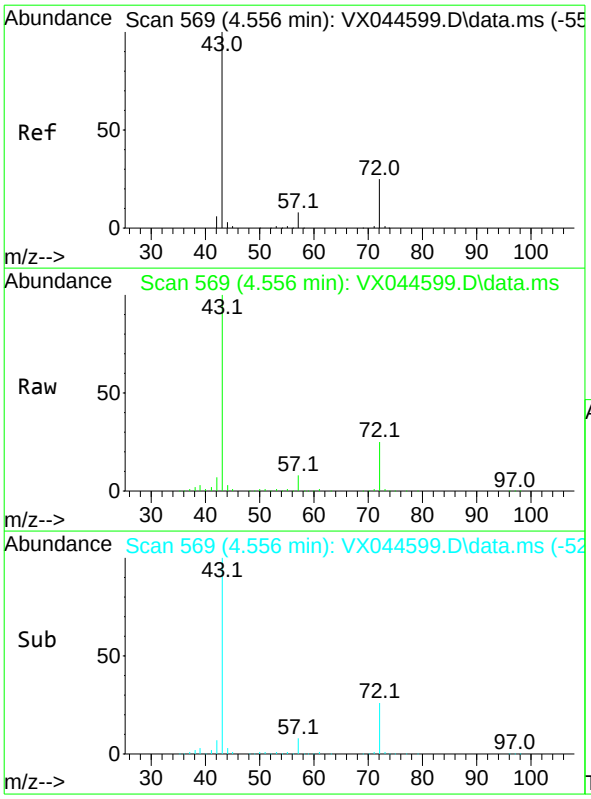


#24
1,1-Dichloroethane
Concen: 53.022 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 63 Resp: 205366

Ion	Ratio	Lower	Upper
63	100		
98	7.6	3.8	11.4
100	4.8	2.4	7.2

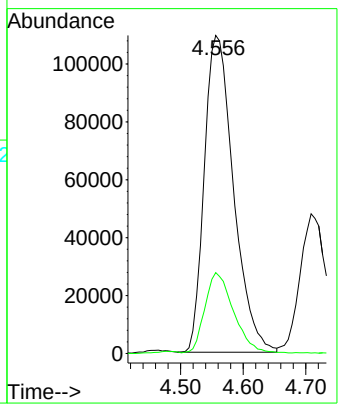




#25
2-Butanone
Concen: 278.769 ug/l
RT: 4.556 min Scan# 56
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 43 Resp: 355382

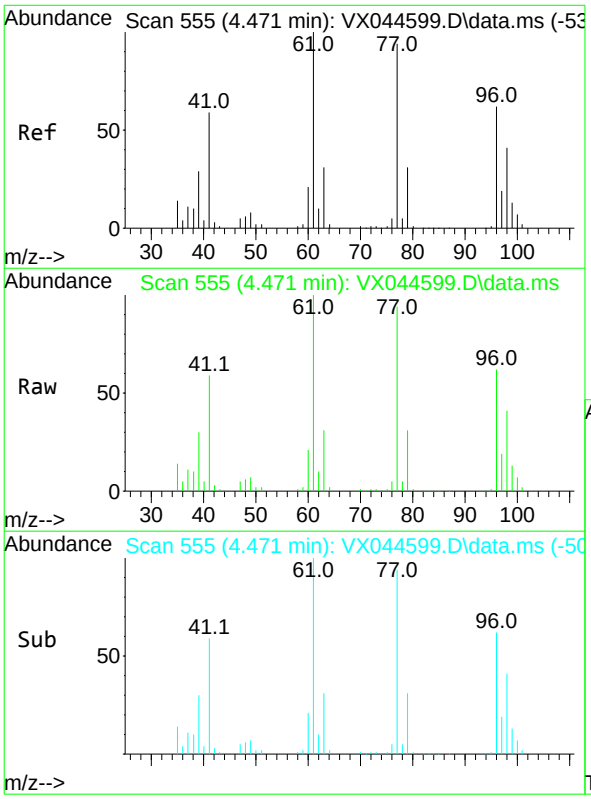
Ion	Ratio	Lower	Upper
43	100		
72	25.2	20.2	30.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

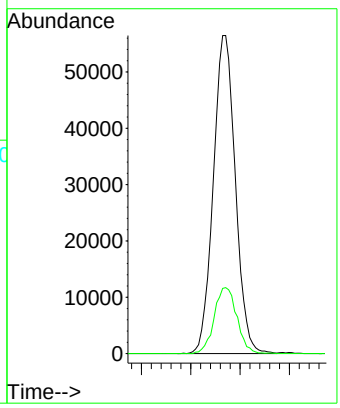
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

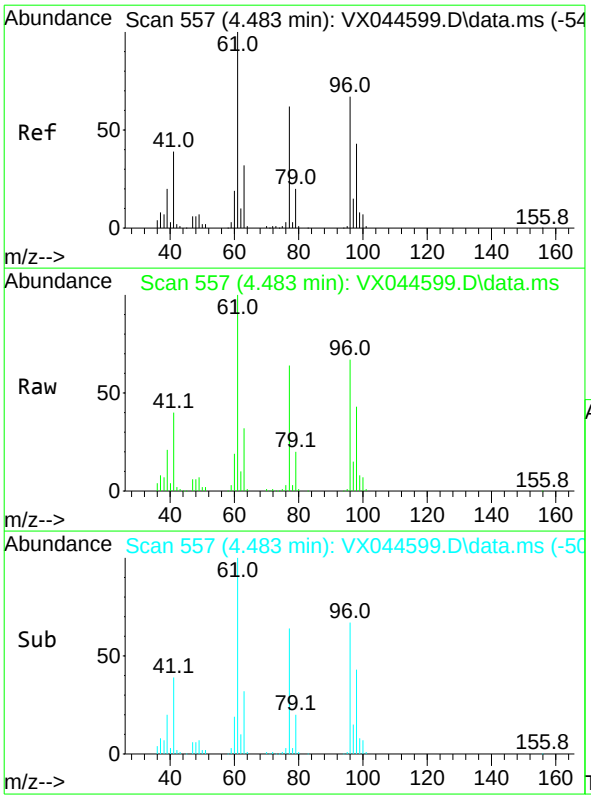


#26
2,2-Dichloropropane
Concen: 52.316 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 77 Resp: 175192

Ion	Ratio	Lower	Upper
77	100		
97	21.4	10.7	32.1

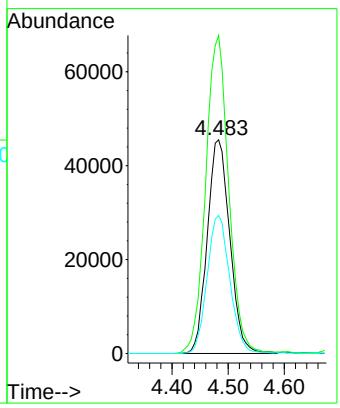




#27
cis-1,2-Dichloroethene
Concen: 52.219 ug/l
RT: 4.483 min Scan# 55
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 96 Resp: 127058

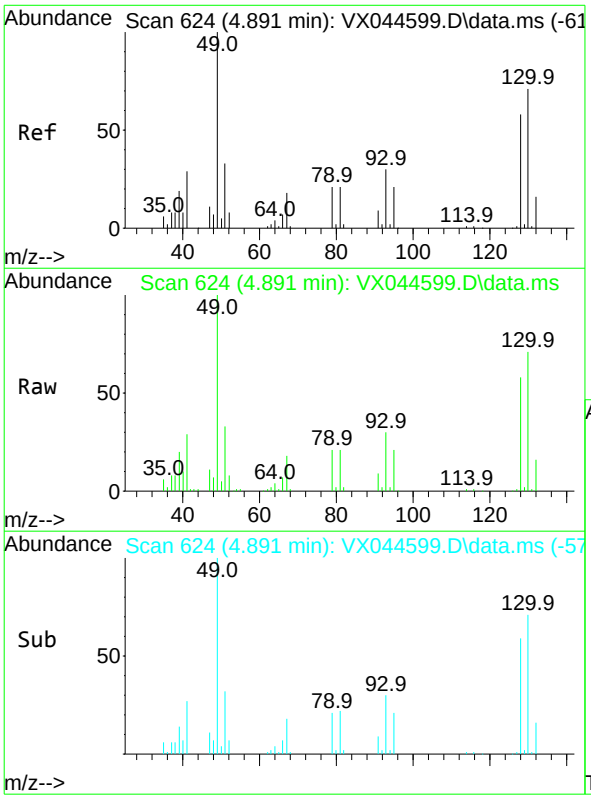
Ion	Ratio	Lower	Upper
96	100		
61	151.4	0.0	302.8
98	65.0	0.0	130.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

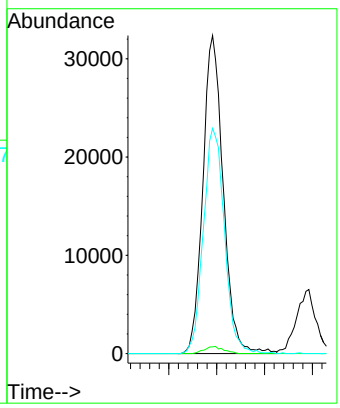
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

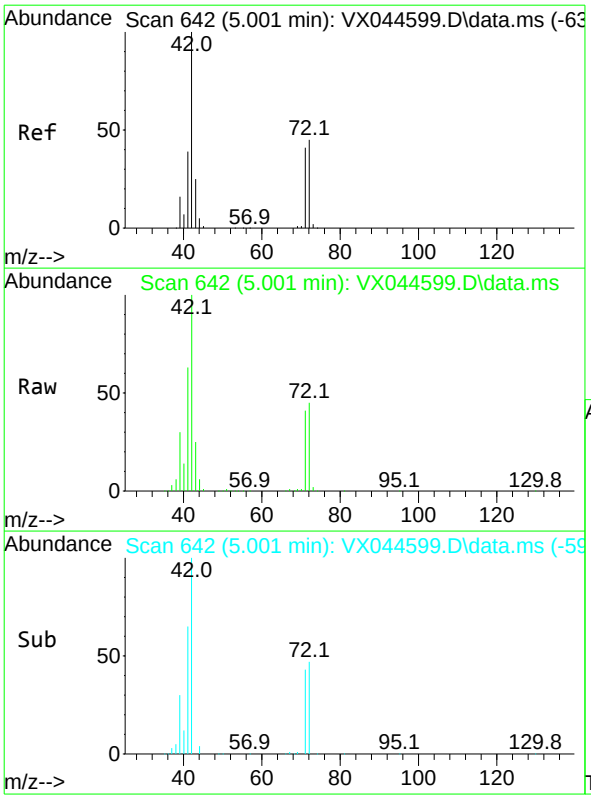


#28
Bromochloromethane
Concen: 52.799 ug/l
RT: 4.891 min Scan# 624
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 49 Resp: 95194

Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	4.2
130	73.5	58.8	88.2

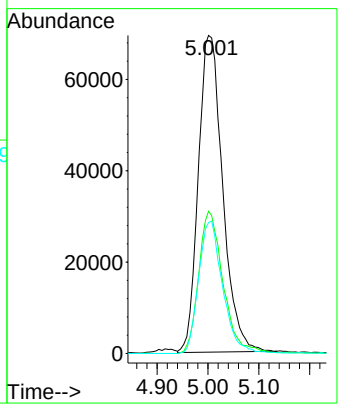




#29
Tetrahydrofuran
Concen: 264.250 ug/l
RT: 5.001 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 42 Resp: 230689

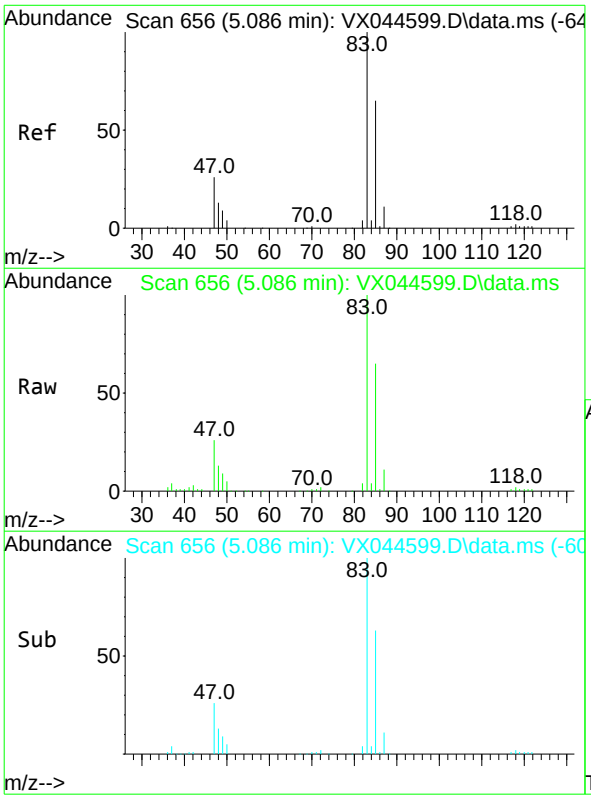
Ion	Ratio	Lower	Upper
42	100		
72	45.1	36.1	54.1
71	41.3	33.0	49.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

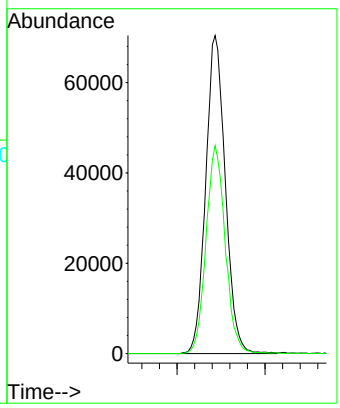
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

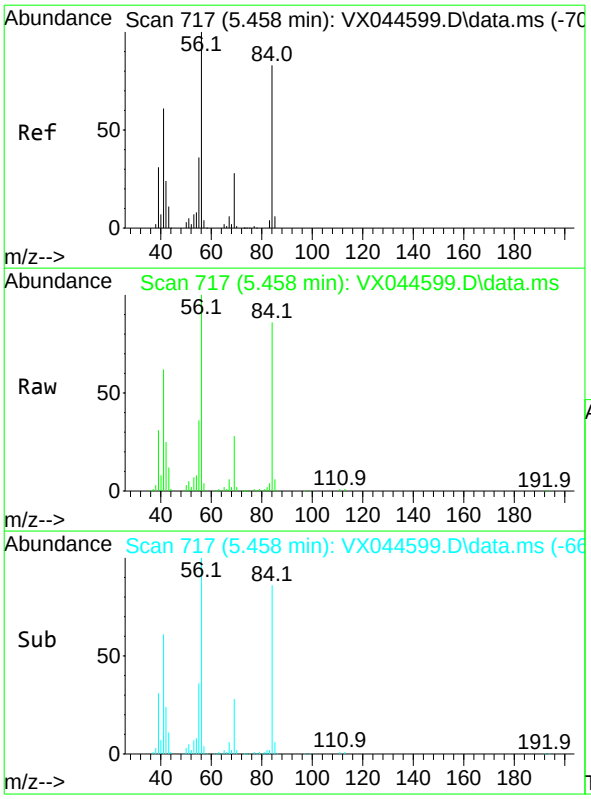


#30
Chloroform
Concen: 52.153 ug/l
RT: 5.086 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 83 Resp: 217765

Ion	Ratio	Lower	Upper
83	100		
85	65.4	52.3	78.5

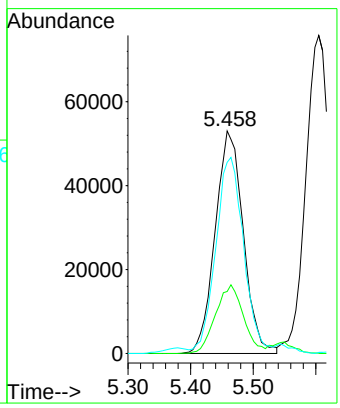




#31
Cyclohexane
Concen: 52.061 ug/l
RT: 5.458 min Scan# 71
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 56 Resp: 165559

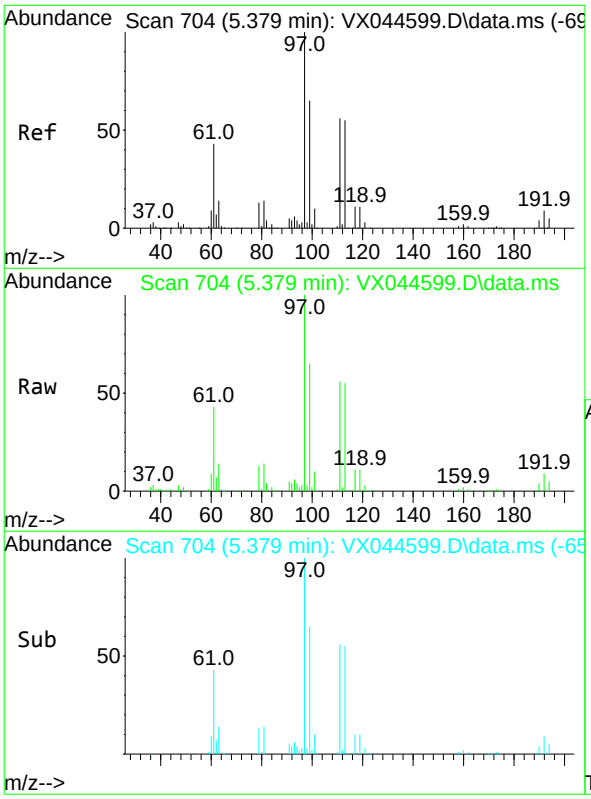
Ion	Ratio	Lower	Upper
56	100		
69	27.8	22.2	33.4
84	83.3	66.6	100.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

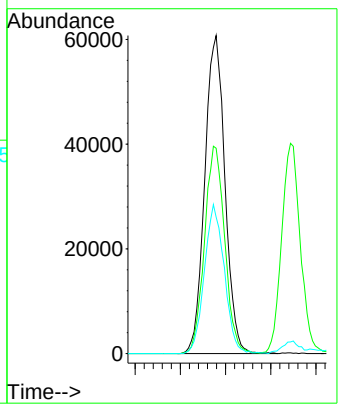
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

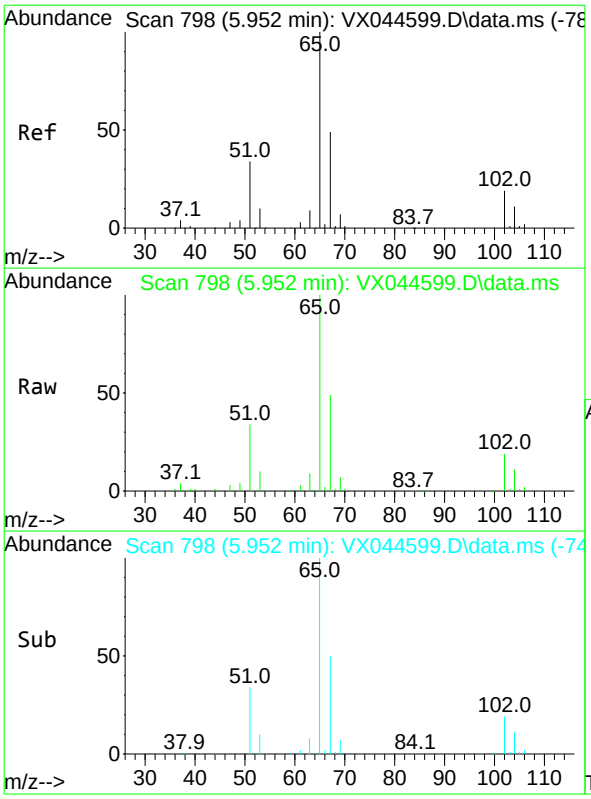


#32
1,1,1-Trichloroethane
Concen: 53.743 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 97 Resp: 188854

Ion	Ratio	Lower	Upper
97	100		
99	65.1	52.1	78.1
61	46.0	36.8	55.2

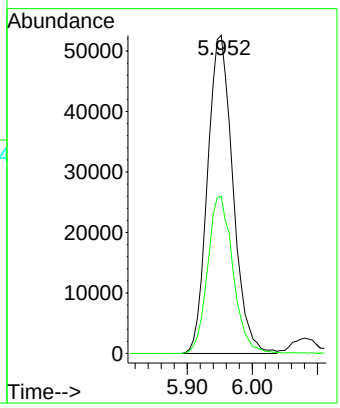




#33
1,2-Dichloroethane-d4
Concen: 50.681 ug/l
RT: 5.952 min Scan# 79
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 65 Resp: 142022

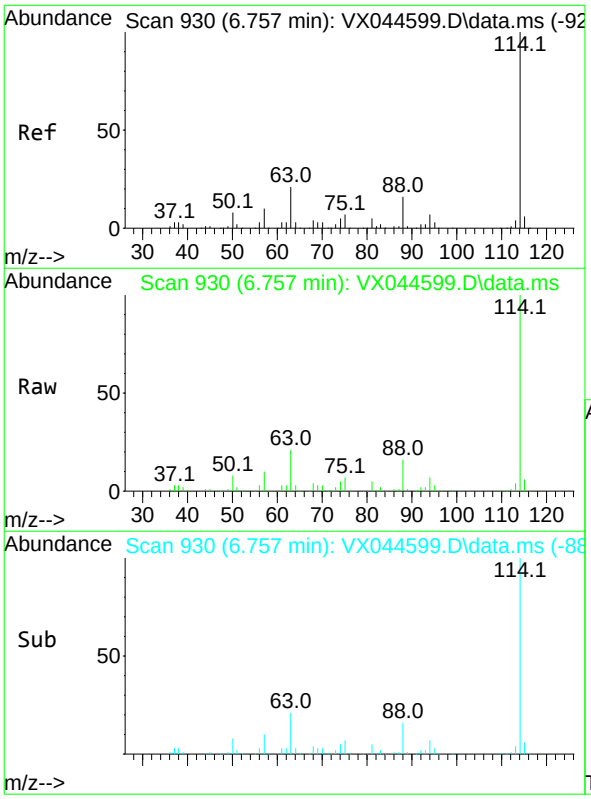
Ion	Ratio	Lower	Upper
65	100		
67	49.5	0.0	99.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

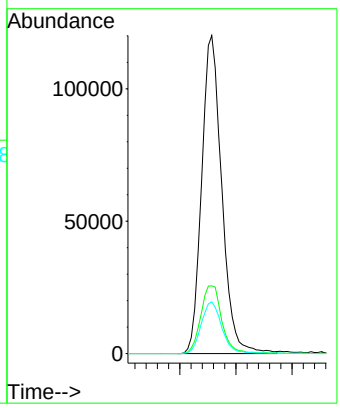
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

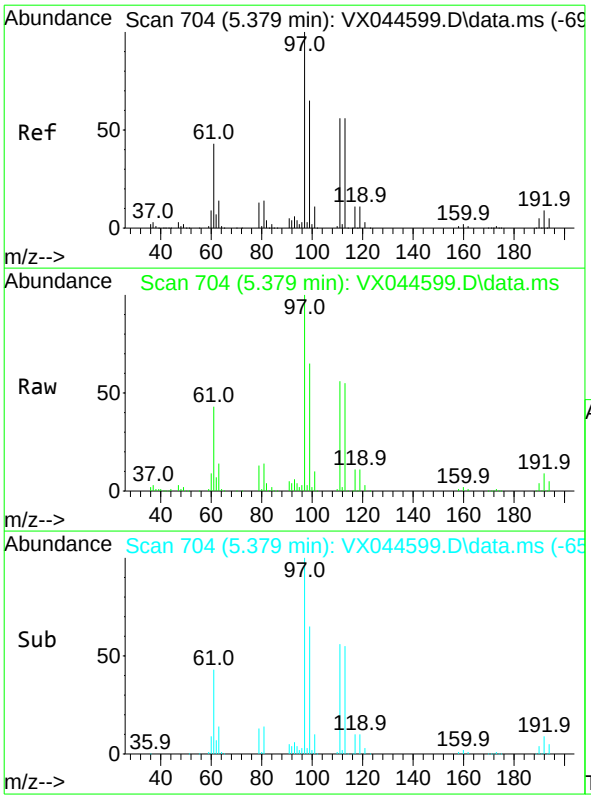


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion:114 Resp: 298796

Ion	Ratio	Lower	Upper
114	100		
63	21.3	0.0	42.6
88	16.3	0.0	32.6

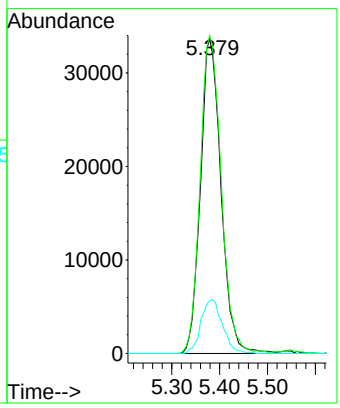




#35
Dibromofluoromethane
Concen: 48.890 ug/l
RT: 5.379 min Scan# 70
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion:113 Resp: 100169

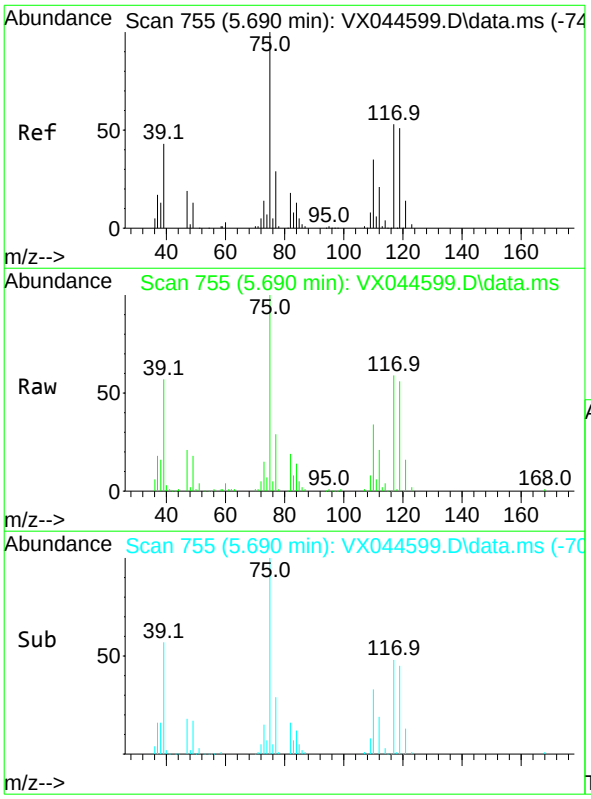
Ion	Ratio	Lower	Upper
113	100		
111	104.1	83.3	124.9
192	17.9	14.3	21.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

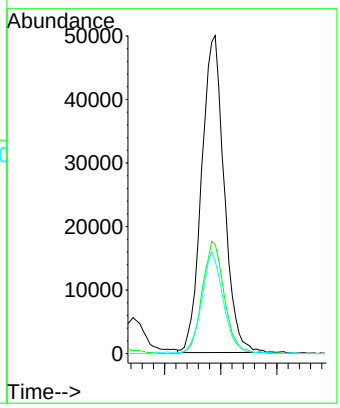
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

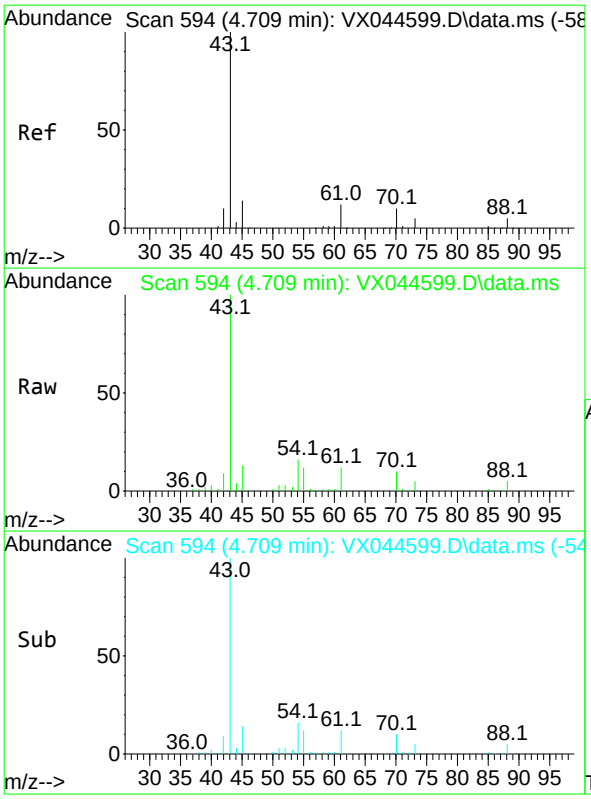


#36
1,1-Dichloropropene
Concen: 52.511 ug/l
RT: 5.690 min Scan# 755
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 75 Resp: 139122

Ion	Ratio	Lower	Upper
75	100		
110	34.6	17.3	51.9
77	30.9	24.7	37.1

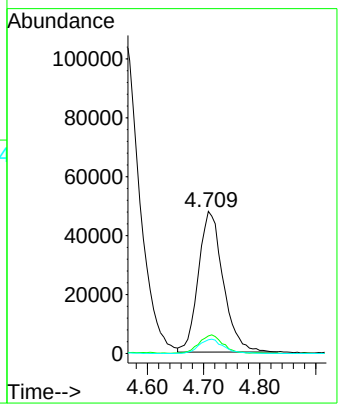




#37
Ethyl Acetate
Concen: 54.207 ug/l
RT: 4.709 min Scan# 59
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 43 Resp: 146801

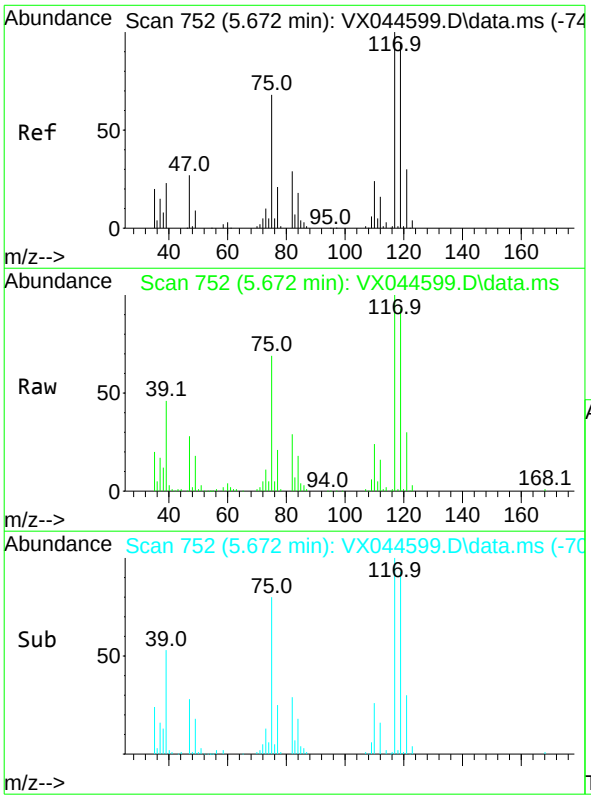
Ion	Ratio	Lower	Upper
43	100		
61	12.4	9.9	14.9
70	10.0	8.0	12.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

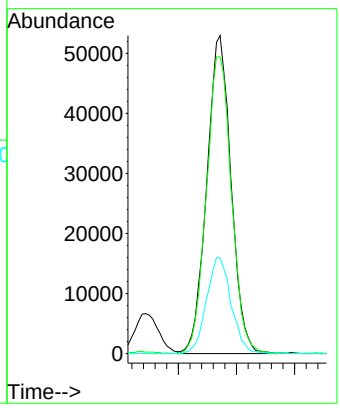
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

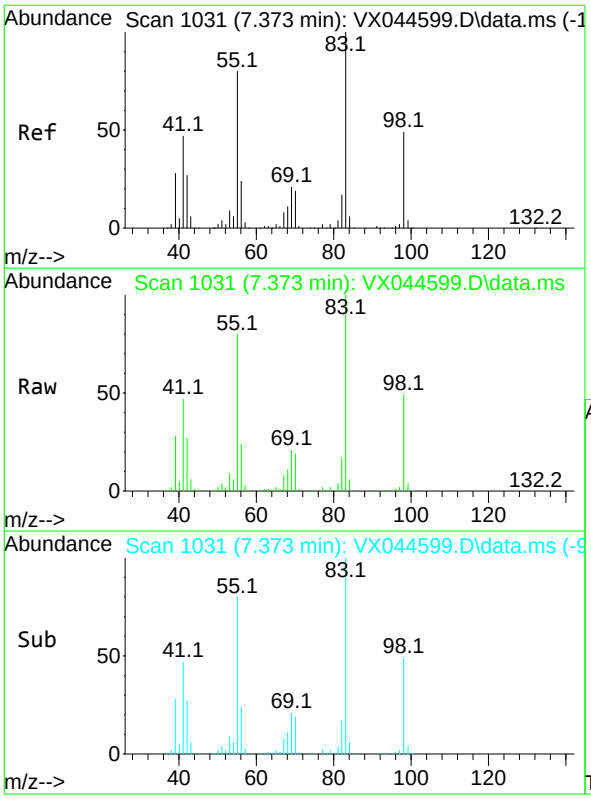


#38
Carbon Tetrachloride
Concen: 52.418 ug/l
RT: 5.672 min Scan# 752
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion:117 Resp: 154084

Ion	Ratio	Lower	Upper
117	100		
119	93.1	74.5	111.7
121	30.1	24.1	36.1

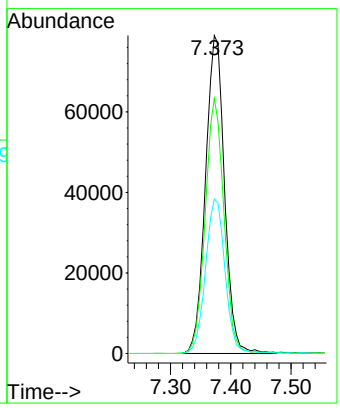




#39
Methylcyclohexane
Concen: 51.250 ug/l
RT: 7.373 min Scan# 10
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 83 Resp: 173252

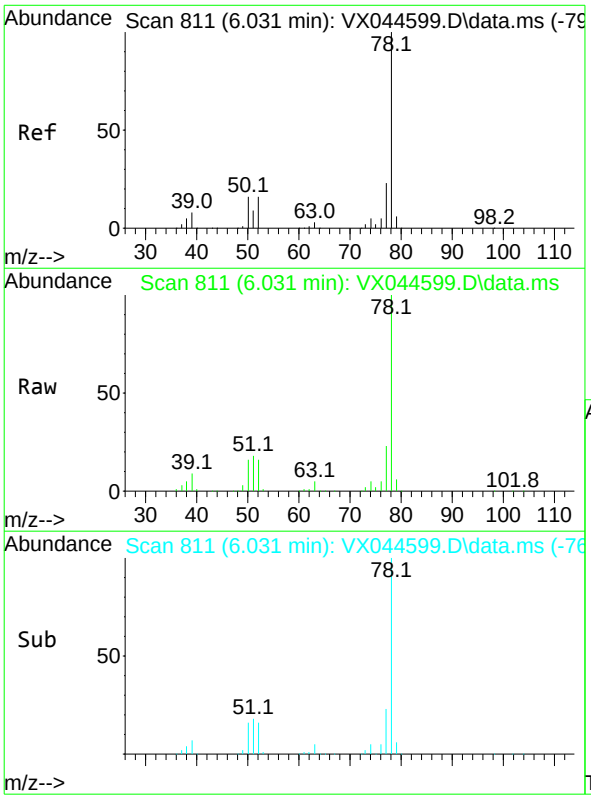
Ion	Ratio	Lower	Upper
83	100		
55	80.1	64.1	96.1
98	48.6	38.9	58.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

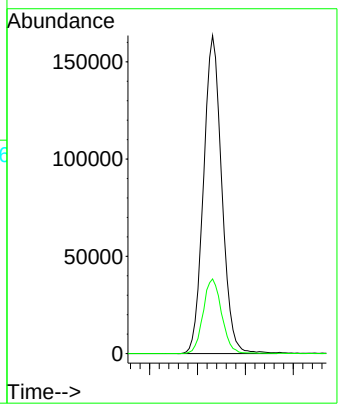
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

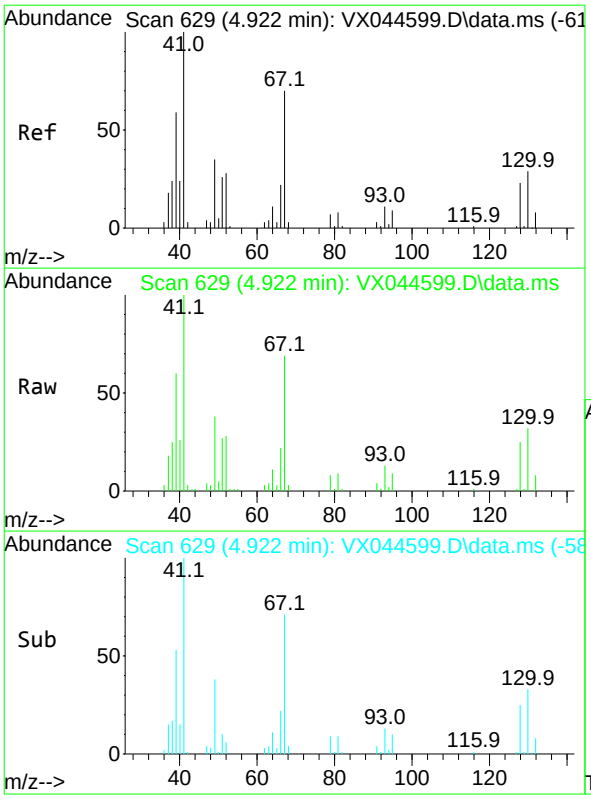


#40
Benzene
Concen: 51.878 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 78 Resp: 432755

Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.8	28.2

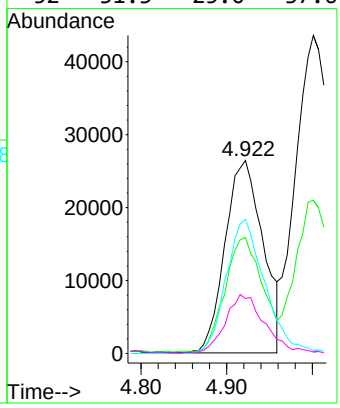




#41
Methacrylonitrile
Concen: 55.981 ug/l
RT: 4.922 min Scan# 62
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 41 Resp: 81440

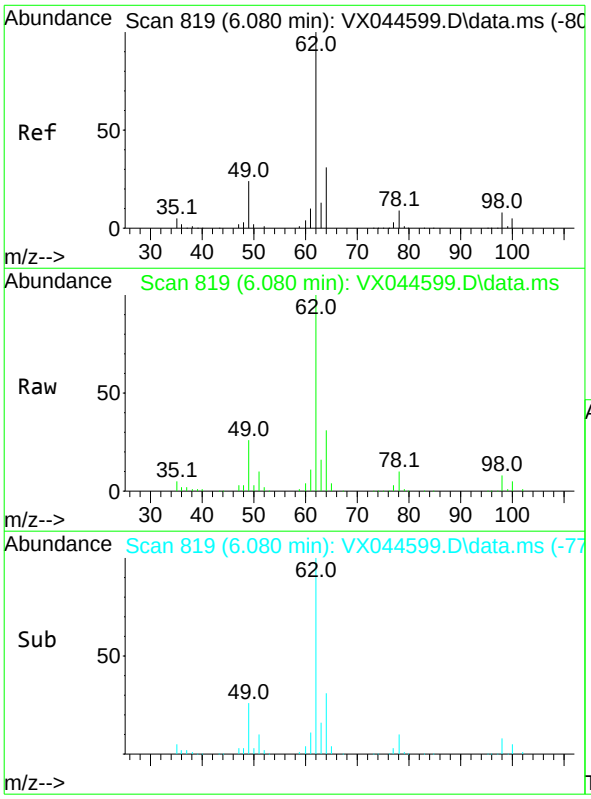
Ion	Ratio	Lower	Upper
41	100		
39	58.7	47.0	70.4
67	71.8	57.4	86.2
52	31.3	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

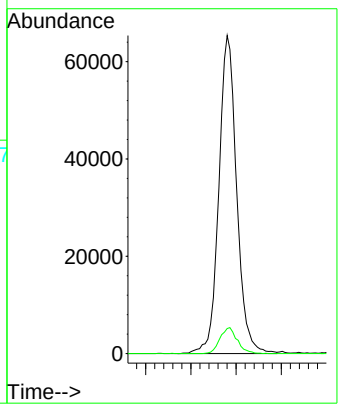
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

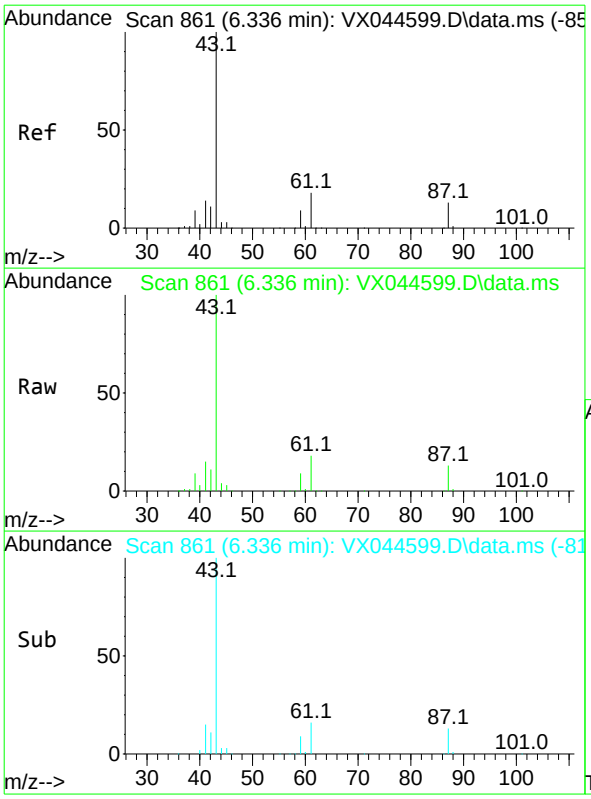


#42
1,2-Dichloroethane
Concen: 54.843 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 62 Resp: 178915

Ion	Ratio	Lower	Upper
62	100		
98	7.9	0.0	15.8

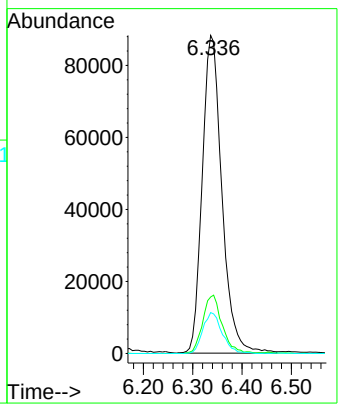




#43
Isopropyl Acetate
Concen: 54.708 ug/l
RT: 6.336 min Scan# 86
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 43 Resp: 244614

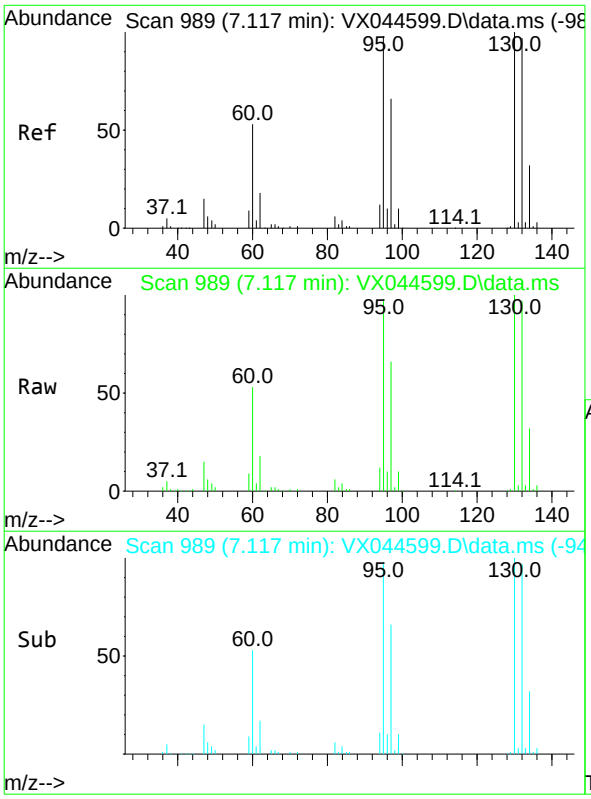
Ion	Ratio	Lower	Upper
43	100		
61	18.1	14.5	21.7
87	12.6	10.1	15.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

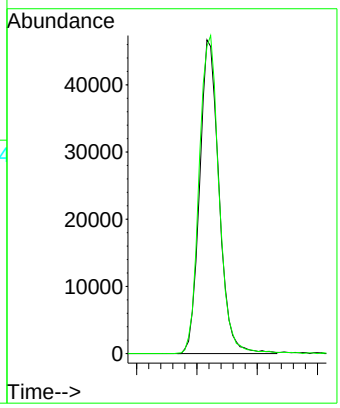
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

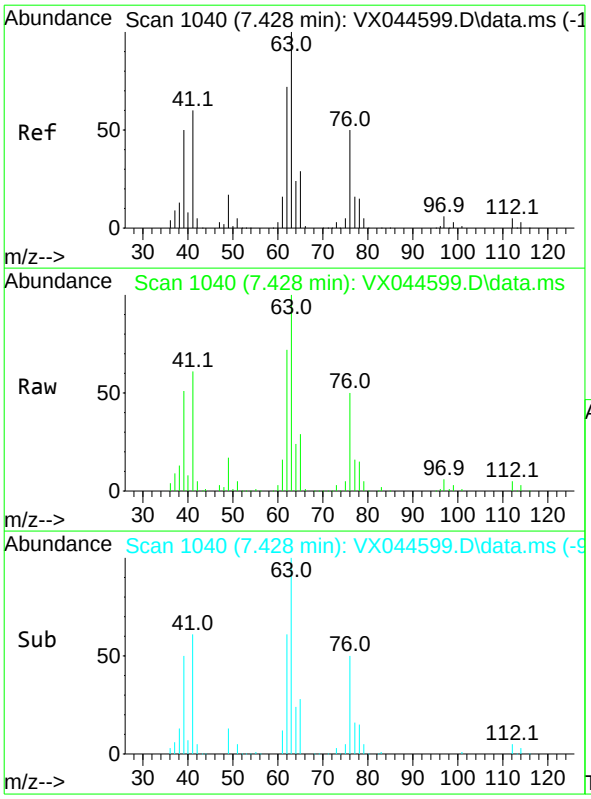


#44
Trichloroethene
Concen: 48.889 ug/l
RT: 7.117 min Scan# 989
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion:130 Resp: 104250

Ion	Ratio	Lower	Upper
130	100		
95	97.8	0.0	195.6

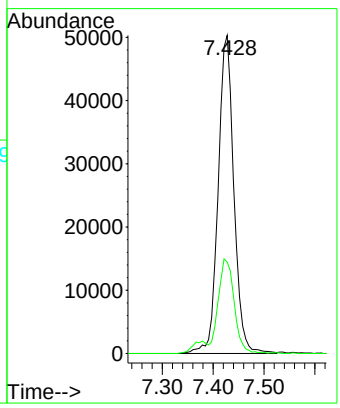




#45
1,2-Dichloropropane
Concen: 53.181 ug/l
RT: 7.428 min Scan# 10
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 63 Resp: 108161

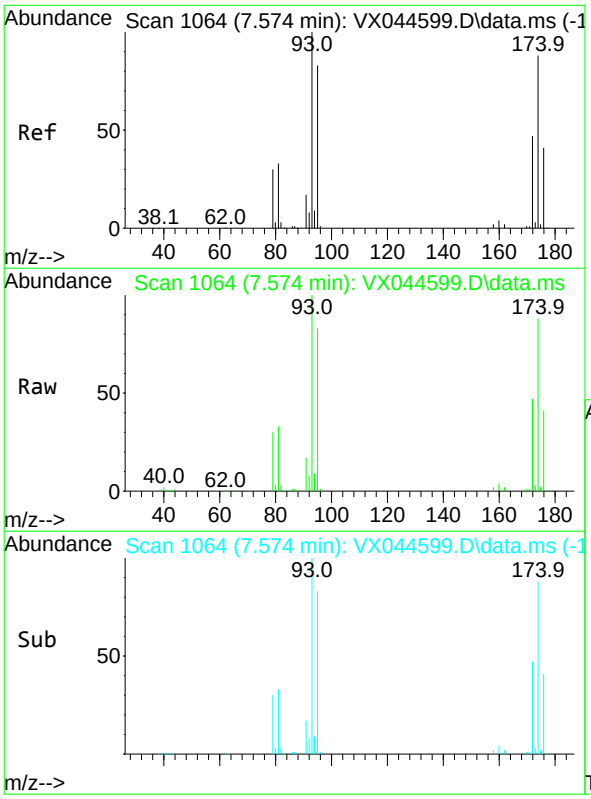
Ion	Ratio	Lower	Upper
63	100		
65	28.7	23.0	34.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

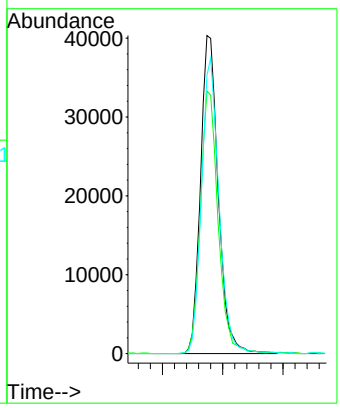
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

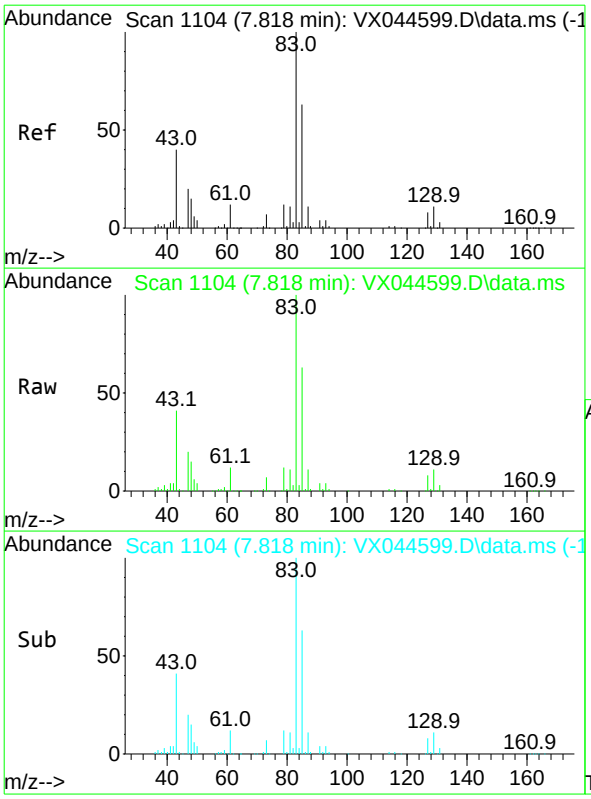


#46
Dibromomethane
Concen: 52.214 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 93 Resp: 82588

Ion	Ratio	Lower	Upper
93	100		
95	82.2	65.8	98.6
174	91.7	73.4	110.0

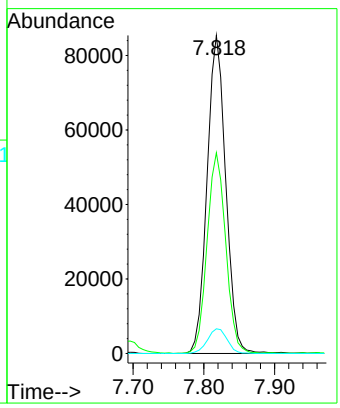




#47
Bromodichloromethane
Concen: 54.442 ug/l
RT: 7.818 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 83 Resp: 156703

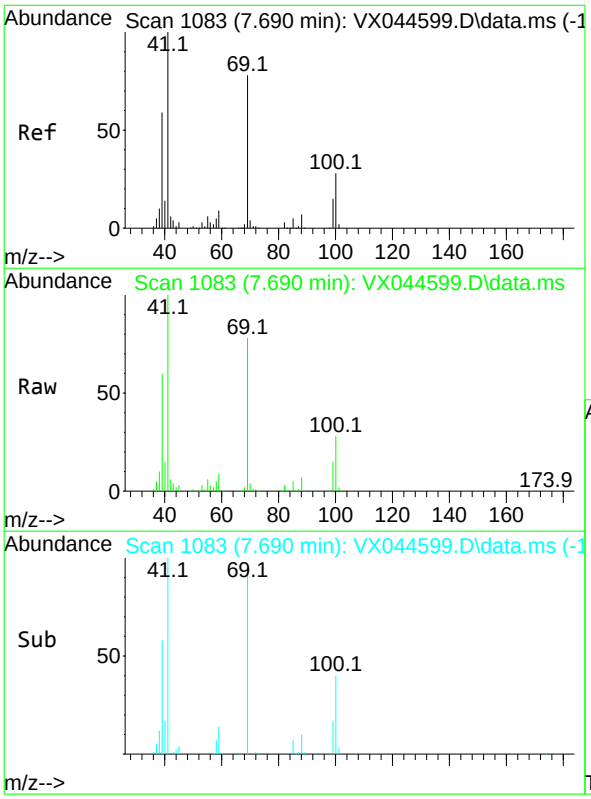
Ion	Ratio	Lower	Upper
83	100		
85	63.0	50.4	75.6
127	7.8	6.2	9.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

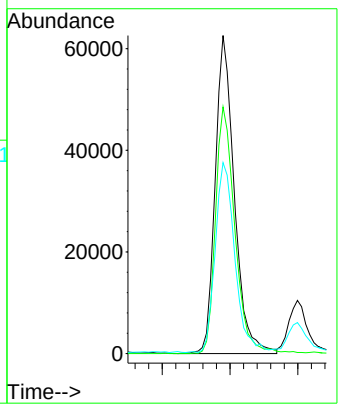
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

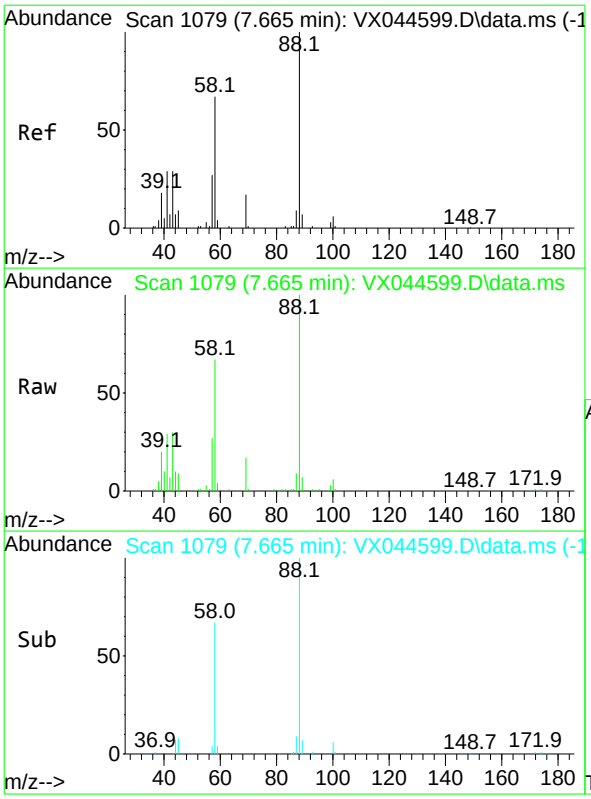


#48
Methyl methacrylate
Concen: 57.554 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 41 Resp: 122740

Ion	Ratio	Lower	Upper
41	100		
69	78.6	62.9	94.3
39	61.1	48.9	73.3

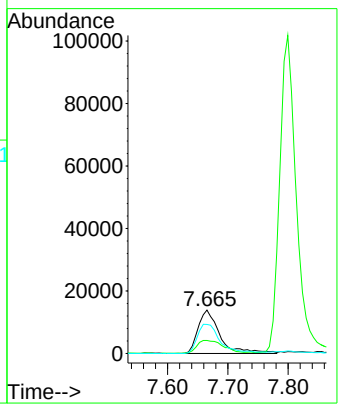




#49
1,4-Dioxane
Concen: 1114.222 ug/l
RT: 7.665 min Scan# 10
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 88 Resp: 34918

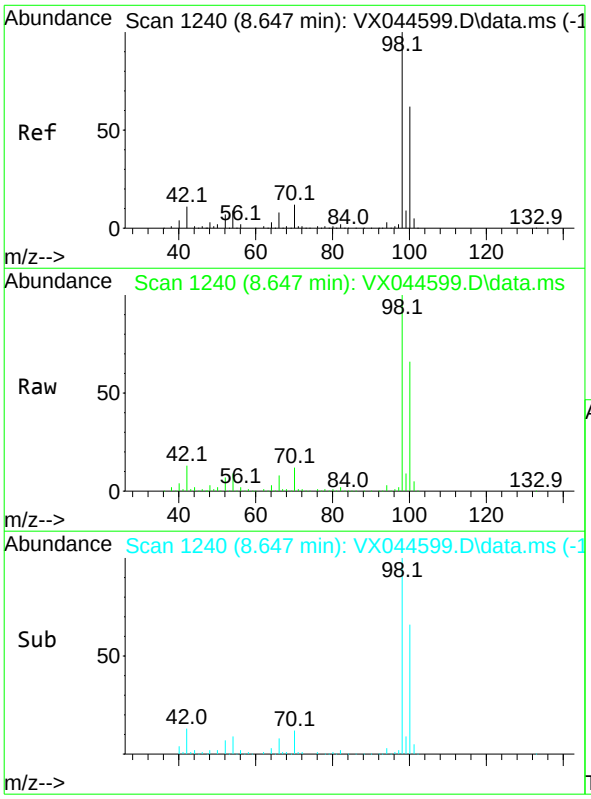
Ion	Ratio	Lower	Upper
88	100		
43	36.9	29.5	44.3
58	70.4	56.3	84.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

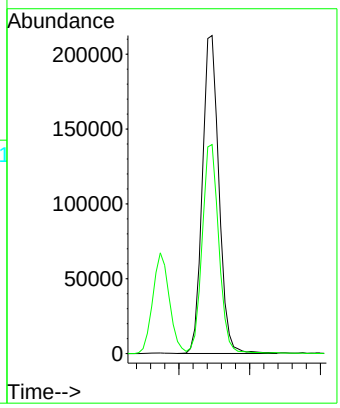
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

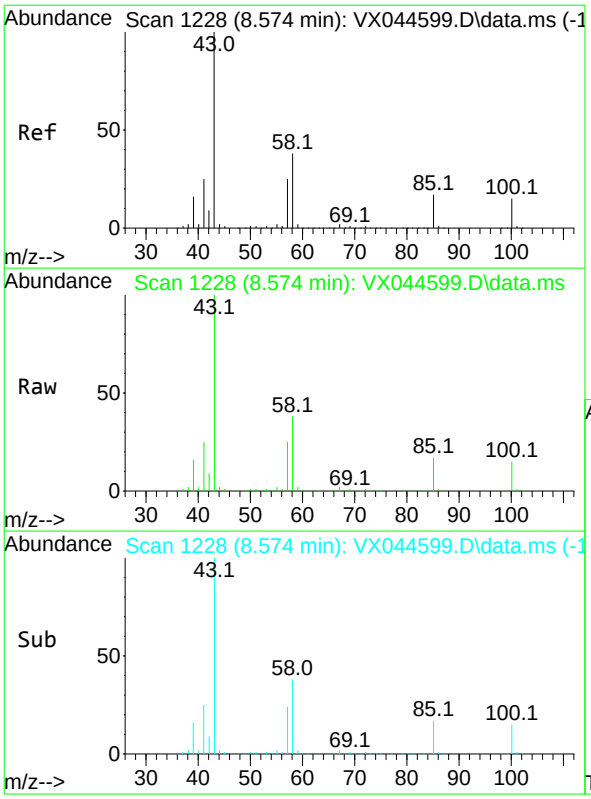


#50
Toluene-d8
Concen: 49.357 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 98 Resp: 345428

Ion	Ratio	Lower	Upper
98	100		
100	65.6	52.5	78.7

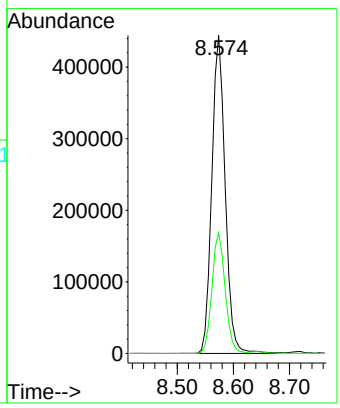




#51
4-Methyl-2-Pentanone
Concen: 280.449 ug/l
RT: 8.574 min Scan# 12
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 43 Resp: 733011

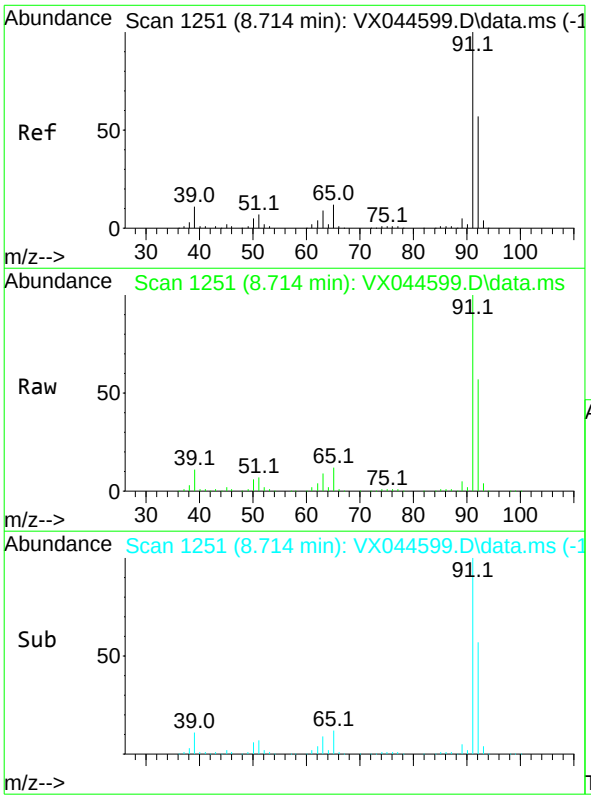
Ion	Ratio	Lower	Upper
43	100		
58	37.5	30.0	45.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

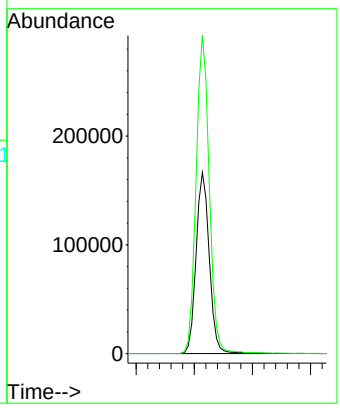
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

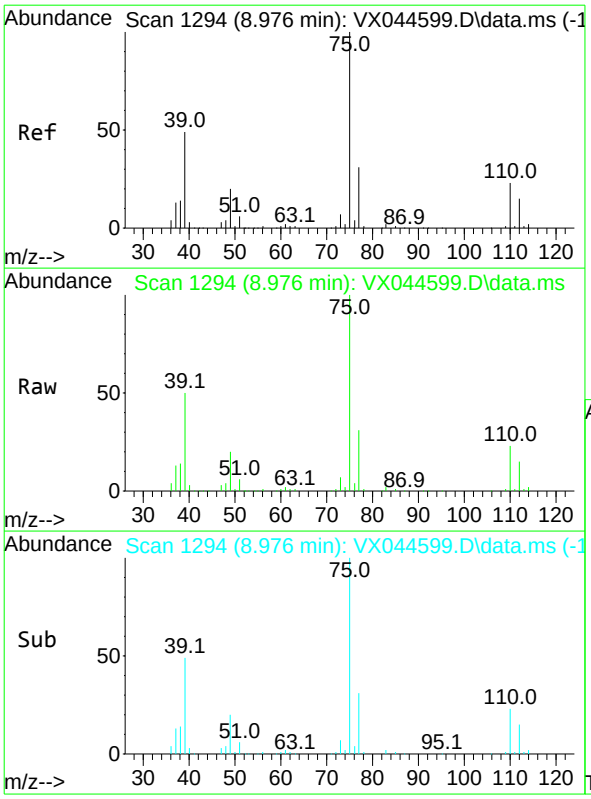


#52
Toluene
Concen: 52.133 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 92 Resp: 262398

Ion	Ratio	Lower	Upper
92	100		
91	175.7	140.6	210.8

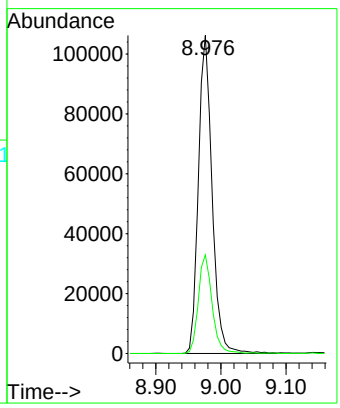




#53
t-1,3-Dichloropropene
Concen: 56.347 ug/l
RT: 8.976 min Scan# 12
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 75 Resp: 155029

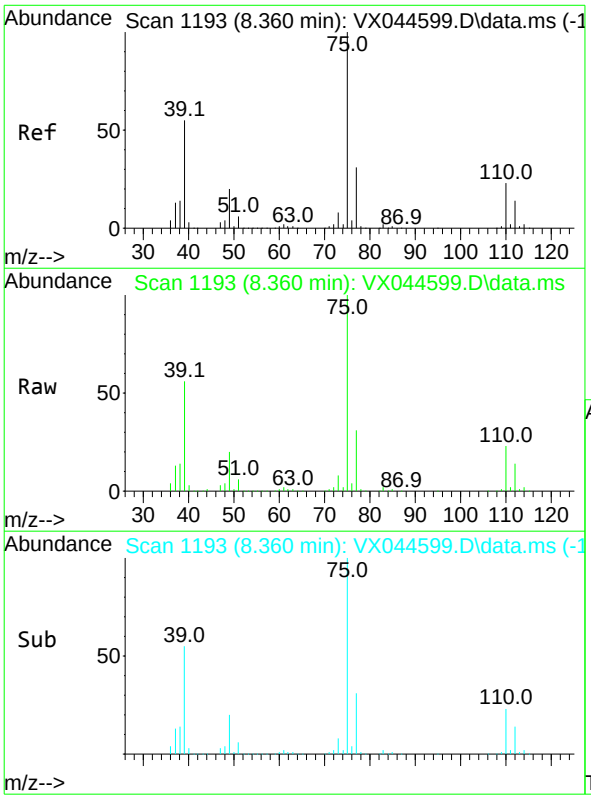
Ion	Ratio	Lower	Upper
75	100		
77	31.0	24.8	37.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

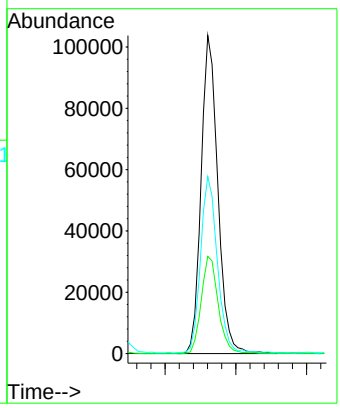
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

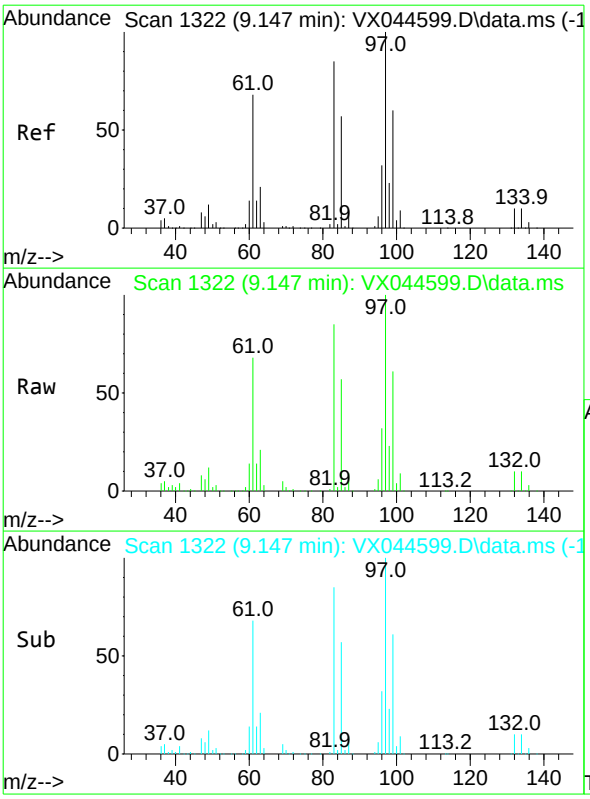


#54
cis-1,3-Dichloropropene
Concen: 55.104 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 75 Resp: 170387

Ion	Ratio	Lower	Upper
75	100		
77	30.6	24.5	36.7
39	55.4	44.3	66.5

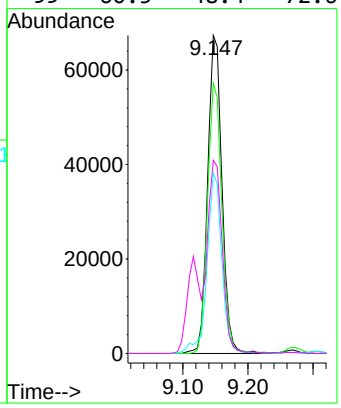




#55
1,1,2-Trichloroethane
Concen: 52.243 ug/l
RT: 9.147 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 97 Resp: 103084

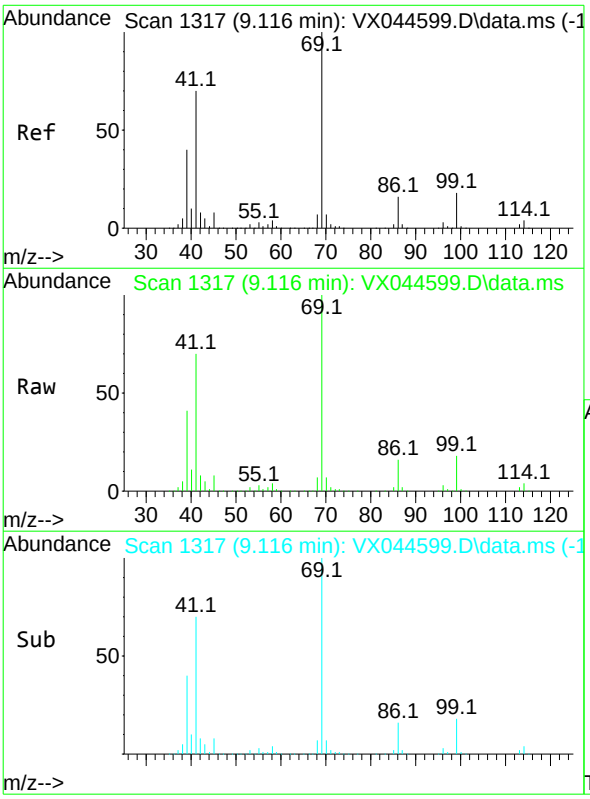
Ion	Ratio	Lower	Upper
97	100		
83	85.0	68.0	102.0
85	56.7	45.4	68.0
99	60.5	48.4	72.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

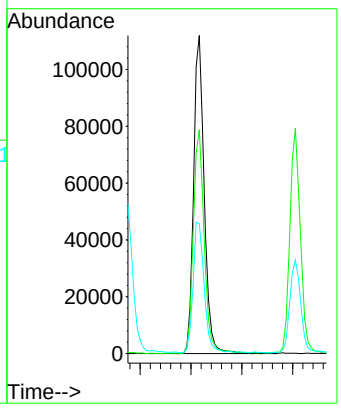
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

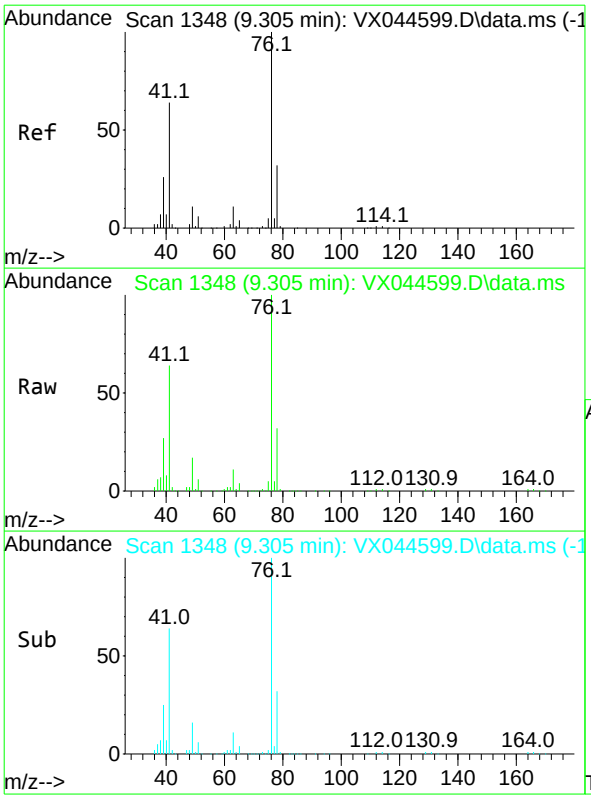


#56
Ethyl methacrylate
Concen: 56.713 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 69 Resp: 162744

Ion	Ratio	Lower	Upper
69	100		
41	72.1	57.7	86.5
39	42.1	33.7	50.5

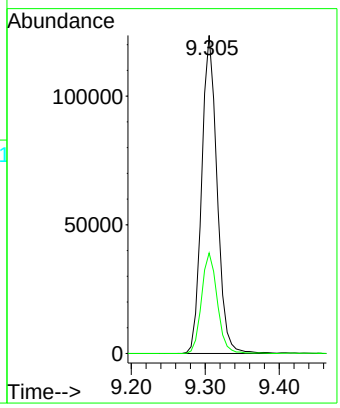




#57
1,3-Dichloropropane
Concen: 53.900 ug/l
RT: 9.305 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 76 Resp: 178595

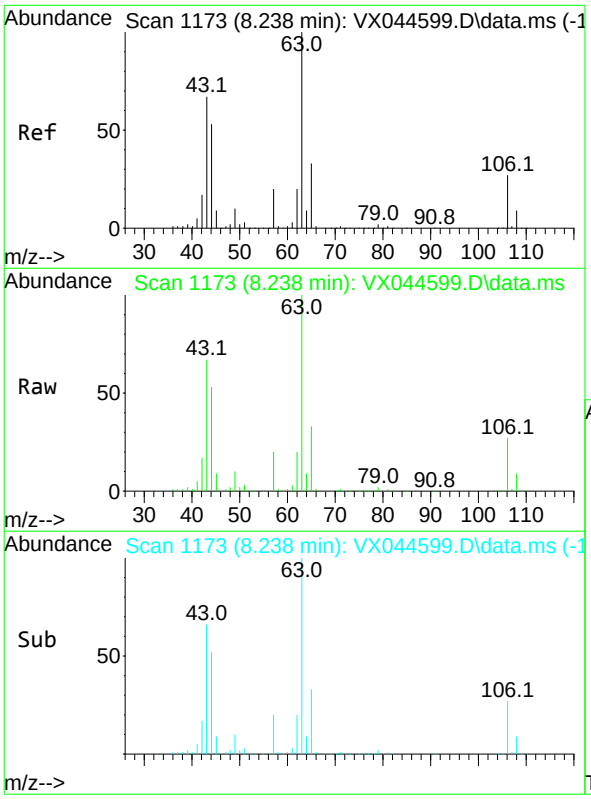
Ion	Ratio	Lower	Upper
76	100		
78	32.3	25.8	38.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

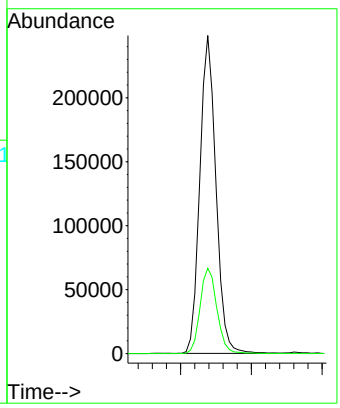
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

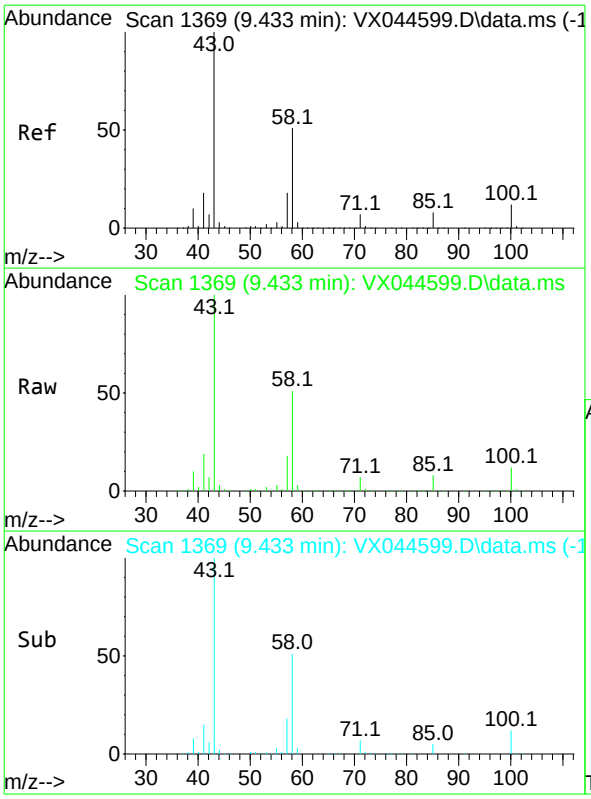


#58
2-Chloroethyl Vinyl ether
Concen: 276.185 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 63 Resp: 392900

Ion	Ratio	Lower	Upper
63	100		
106	28.0	22.4	33.6

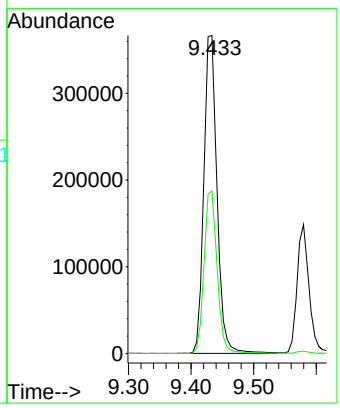




#59
2-Hexanone
Concen: 289.895 ug/l
RT: 9.433 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 43 Resp: 535861

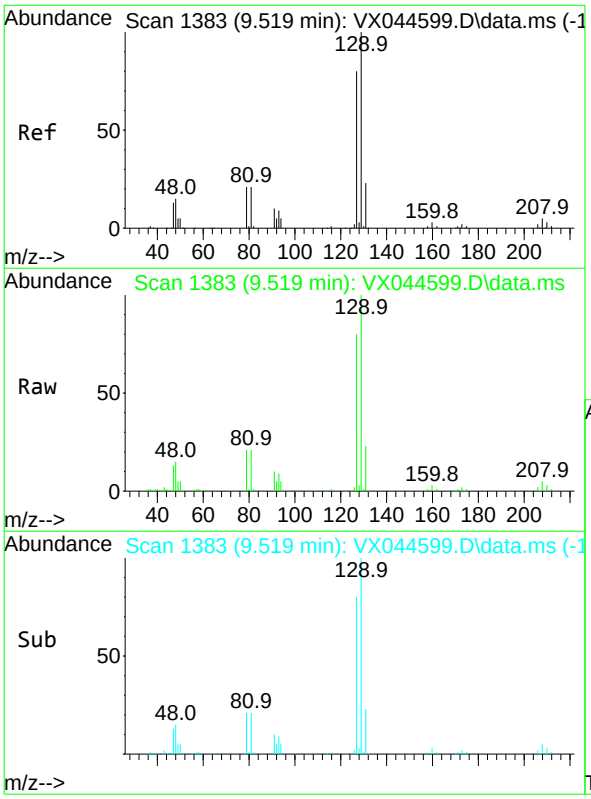
Ion	Ratio	Lower	Upper
43	100		
58	50.9	25.4	76.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

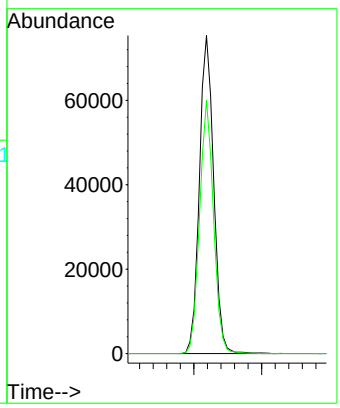
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

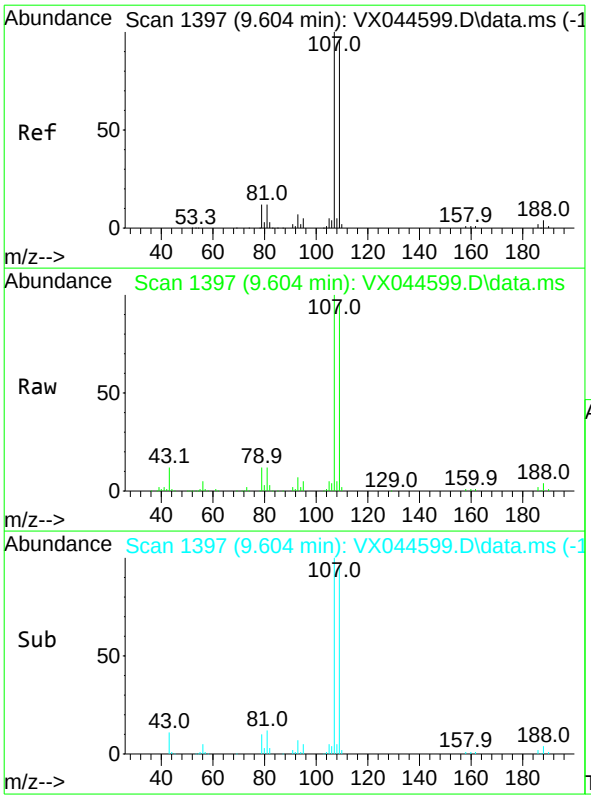


#60
Dibromochloromethane
Concen: 55.871 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion:129 Resp: 109924

Ion	Ratio	Lower	Upper
129	100		
127	77.8	38.9	116.7

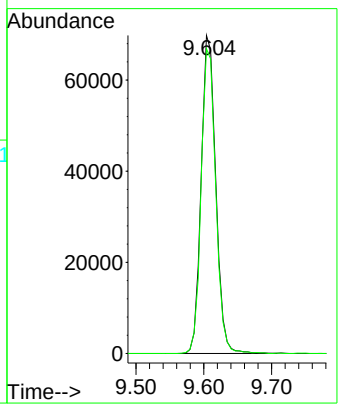




#61
1,2-Dibromoethane
Concen: 52.401 ug/l
RT: 9.604 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion:107 Resp: 104426

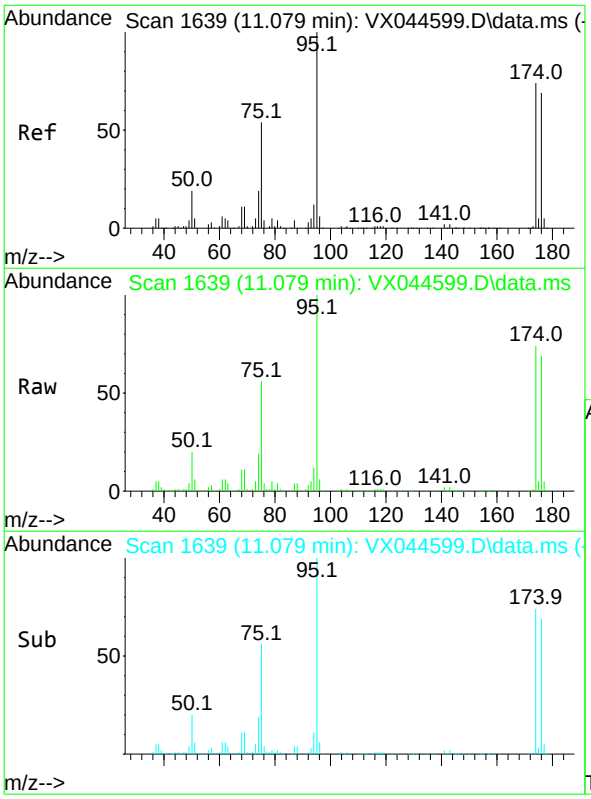
Ion	Ratio	Lower	Upper
107	100		
109	95.9	76.7	115.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

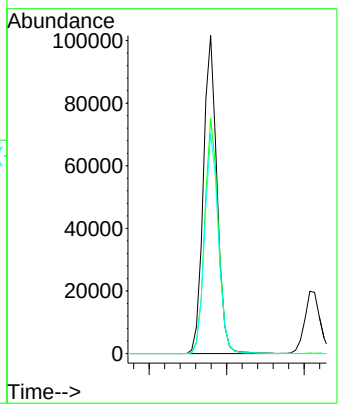
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

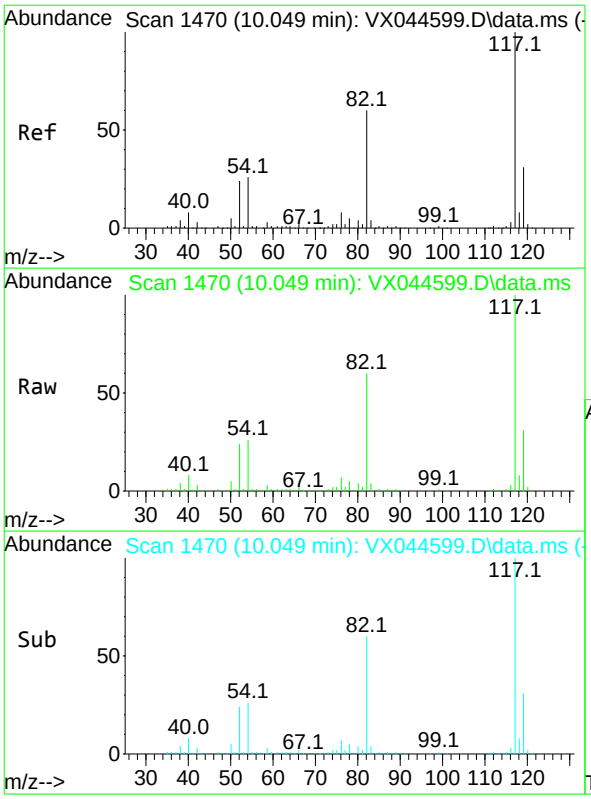


#62
4-Bromofluorobenzene
Concen: 50.167 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 95 Resp: 123925

Ion	Ratio	Lower	Upper
95	100		
174	74.4	0.0	148.8
176	69.9	0.0	139.8

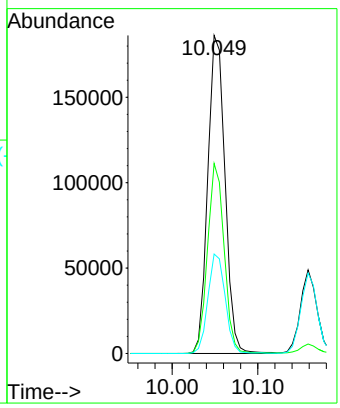




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion:117 Resp: 260263

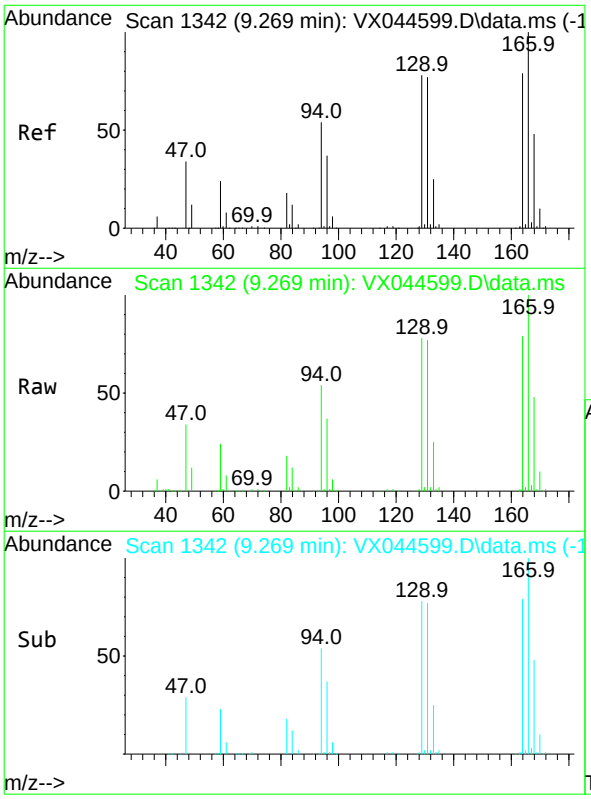
Ion	Ratio	Lower	Upper
117	100		
82	59.7	47.8	71.6
119	31.3	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

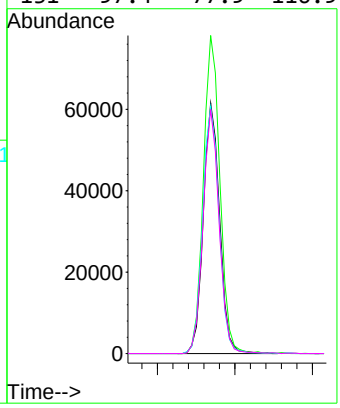
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

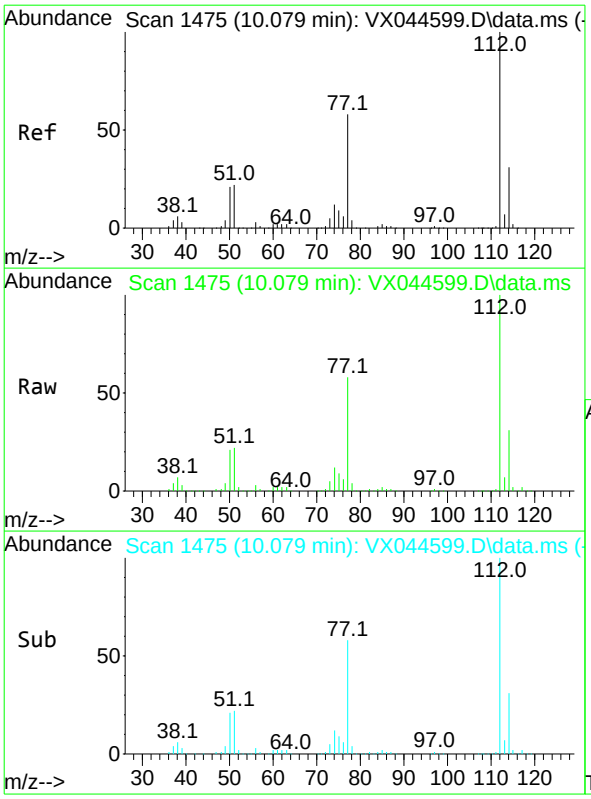


#64
Tetrachloroethene
Concen: 48.910 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion:164 Resp: 90002

Ion	Ratio	Lower	Upper
164	100		
166	126.9	101.5	152.3
129	98.6	78.9	118.3
131	97.4	77.9	116.9

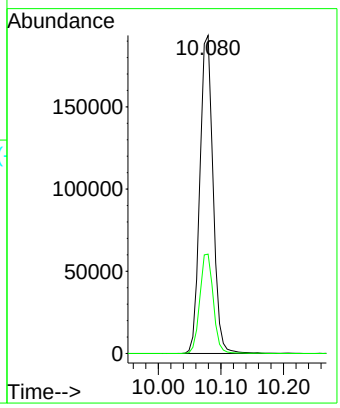




#65
Chlorobenzene
Concen: 51.250 ug/l
RT: 10.079 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion:112 Resp: 283093

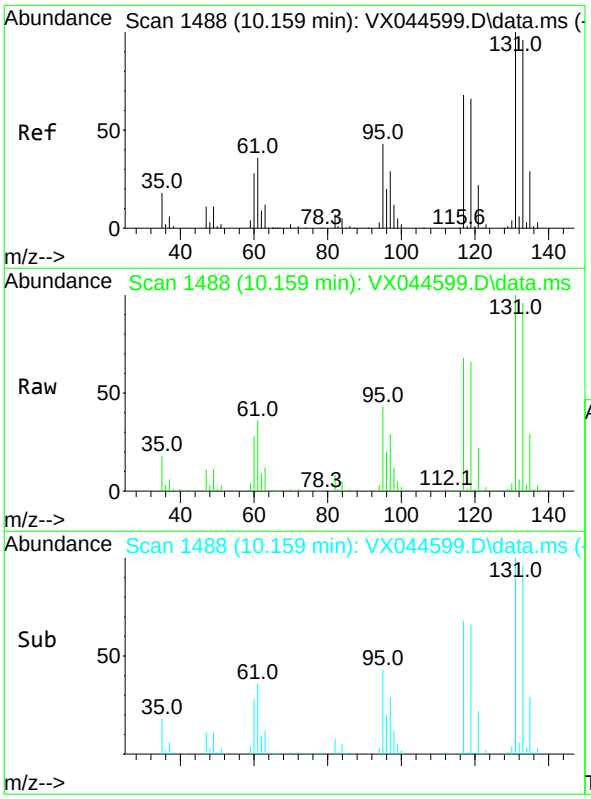
Ion	Ratio	Lower	Upper
112	100		
114	31.2	25.0	37.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

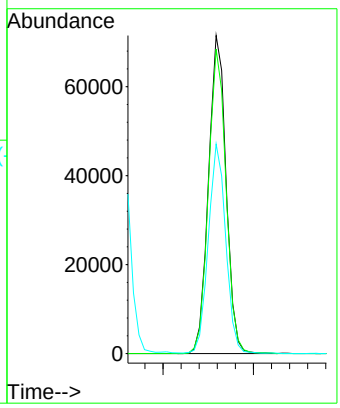
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

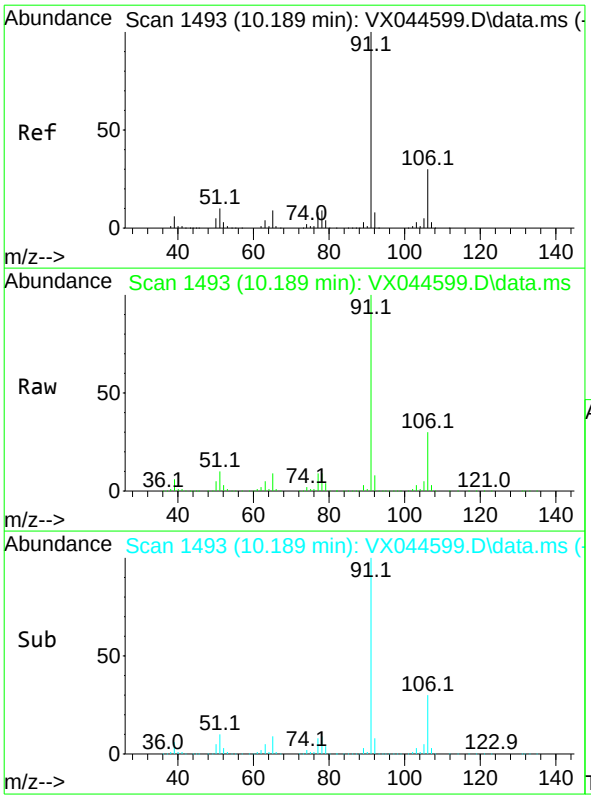


#66
1,1,1,2-Tetrachloroethane
Concen: 52.556 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion:131 Resp: 96419

Ion	Ratio	Lower	Upper
131	100		
133	96.0	48.0	144.0
119	65.6	32.8	98.4

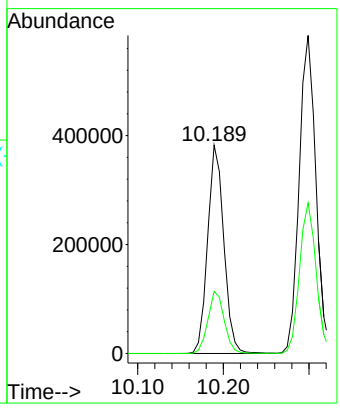




#67
Ethyl Benzene
Concen: 52.906 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 91 Resp: 501840

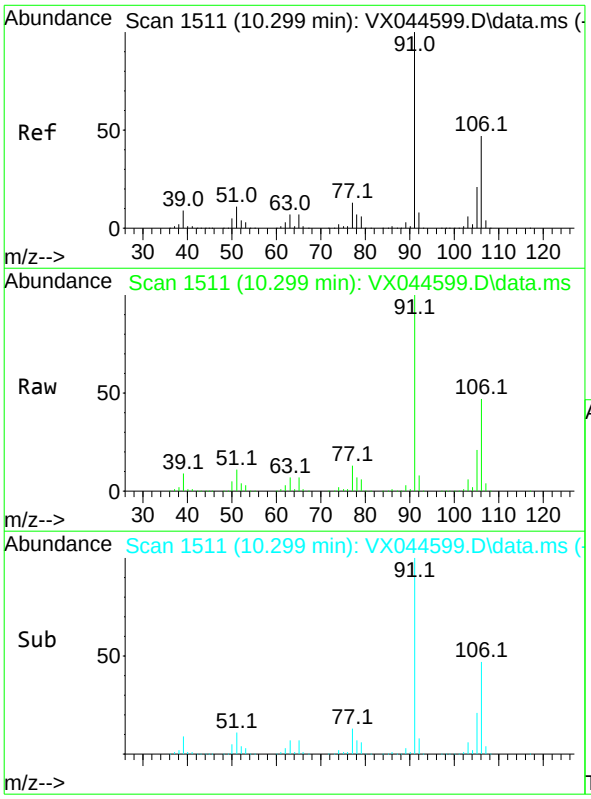
Ion	Ratio	Lower	Upper
91	100		
106	29.8	23.8	35.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

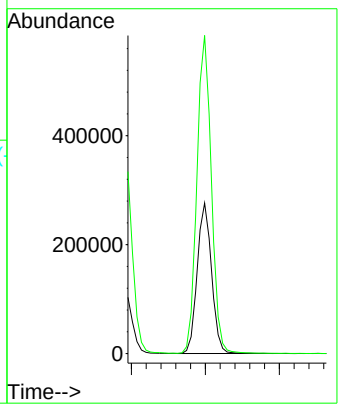
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

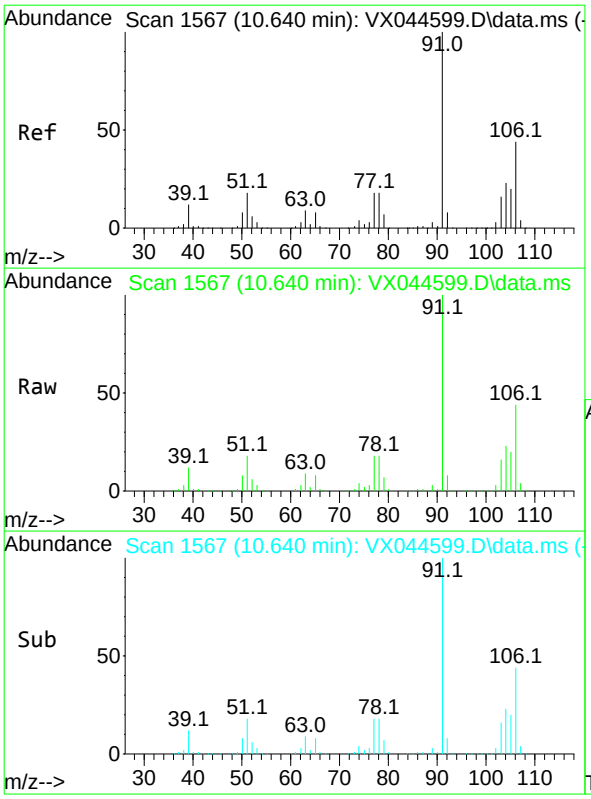


#68
m/p-Xylenes
Concen: 106.805 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion:106 Resp: 372279

Ion	Ratio	Lower	Upper
106	100		
91	213.0	170.4	255.6

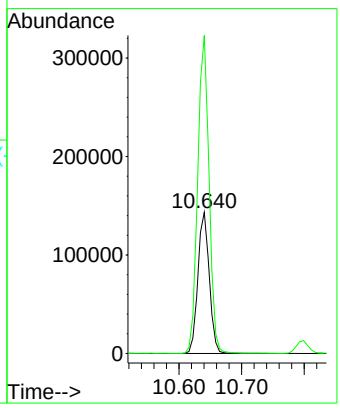




#69
o-Xylene
Concen: 51.512 ug/l
RT: 10.640 min Scan# 15
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion:106 Resp: 181228

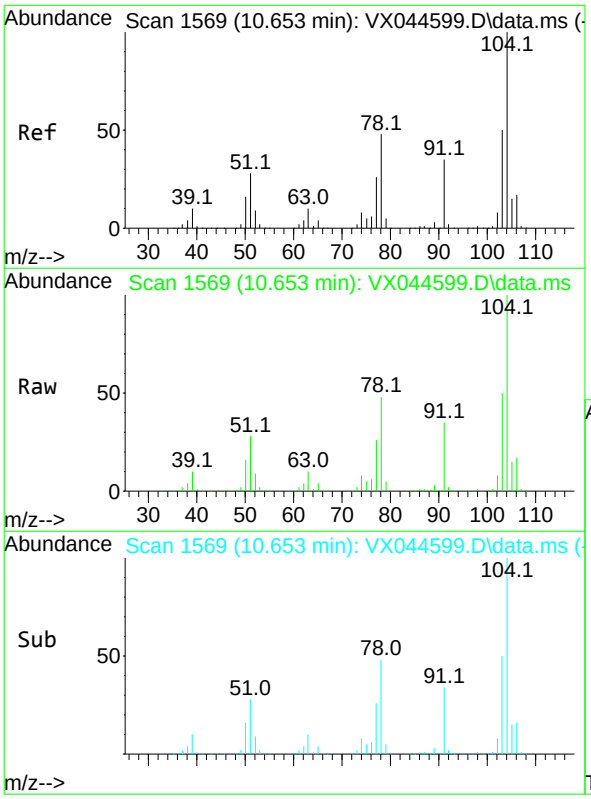
Ion	Ratio	Lower	Upper
106	100		
91	224.5	112.3	336.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

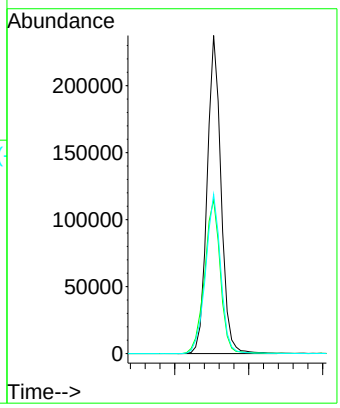
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

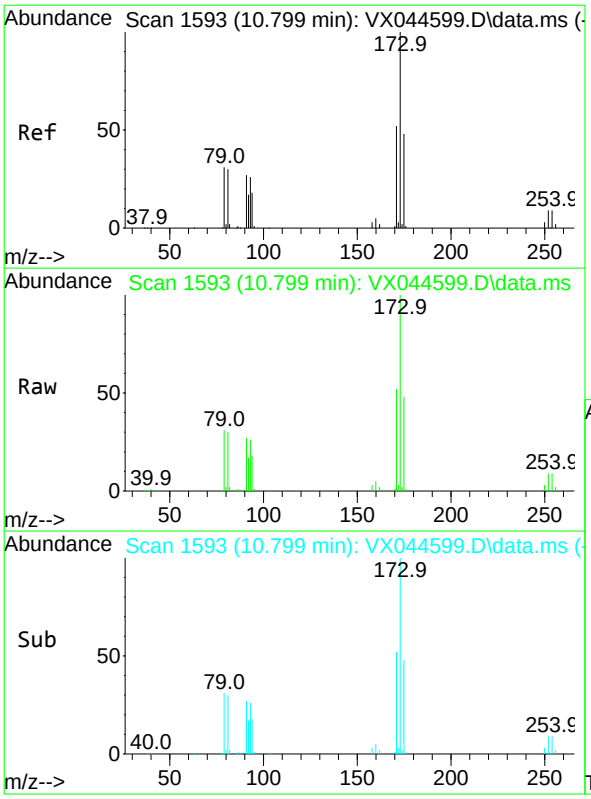


#70
Styrene
Concen: 54.919 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion:104 Resp: 309043

Ion	Ratio	Lower	Upper
104	100		
78	55.0	44.0	66.0
103	54.7	43.8	65.6

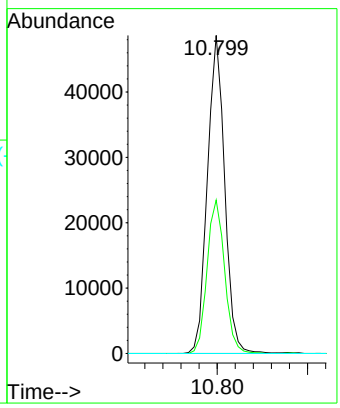




#71
Bromoform
Concen: 50.124 ug/l
RT: 10.799 min Scan# 15
Delta R.T. -0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion:173 Resp: 64456

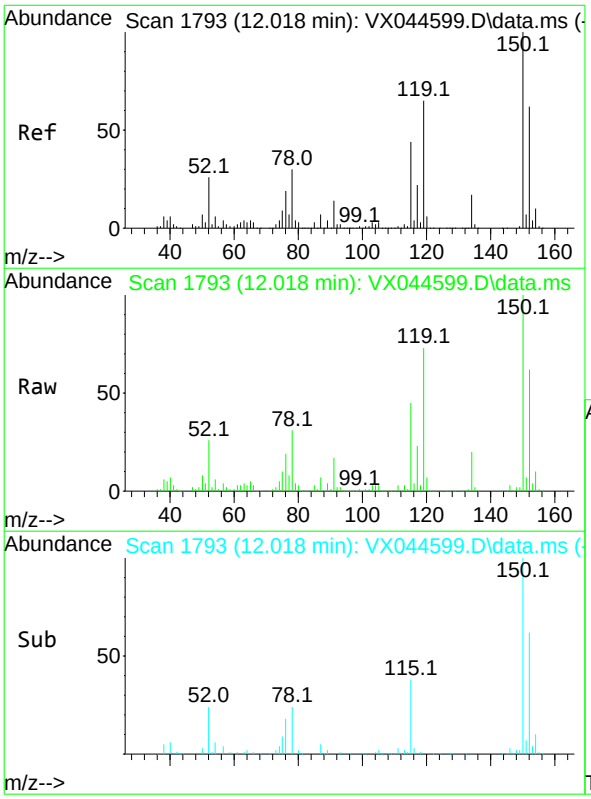
Ion	Ratio	Lower	Upper
173	100		
175	49.2	24.6	73.8
254	0.0	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

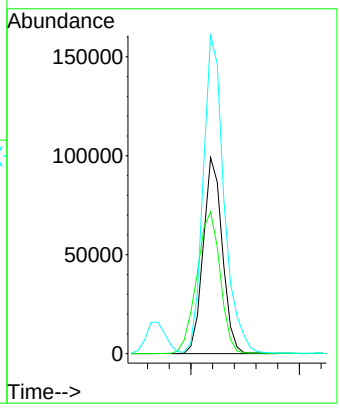
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

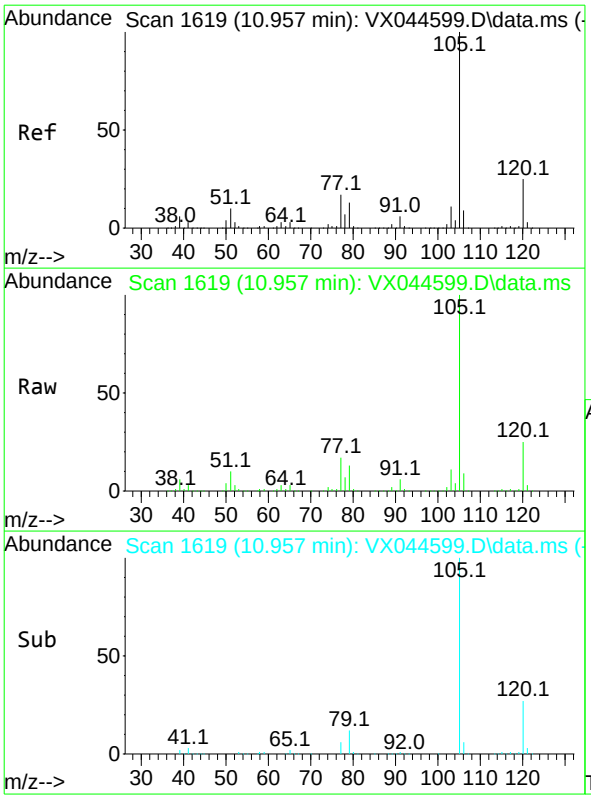


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion:152 Resp: 121154

Ion	Ratio	Lower	Upper
152	100		
115	88.7	44.4	133.1
150	177.5	0.0	355.0

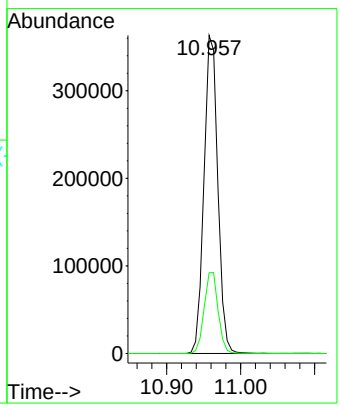




#73
Isopropylbenzene
Concen: 52.439 ug/l
RT: 10.957 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion:105 Resp: 470691

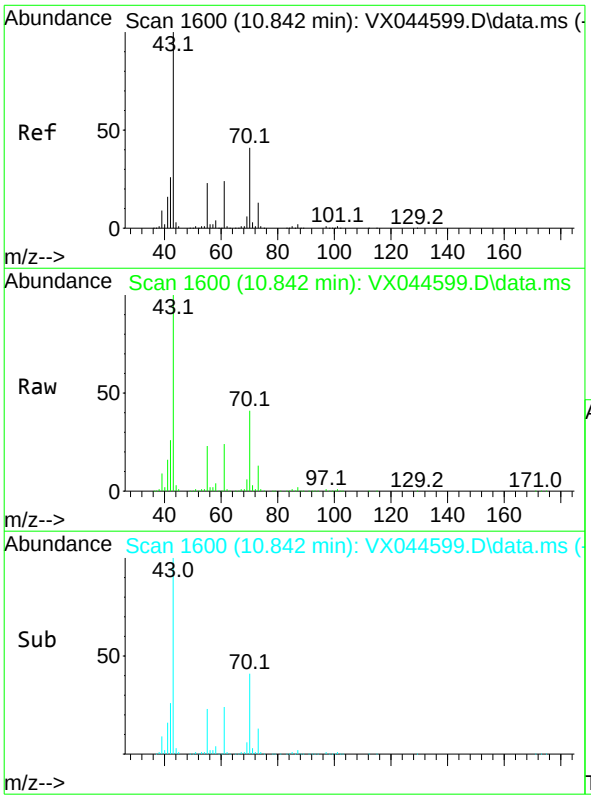
Ion	Ratio	Lower	Upper
105	100		
120	25.9	13.0	38.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

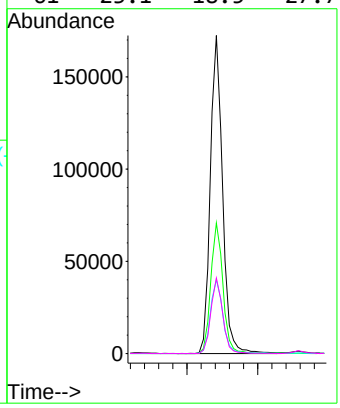
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

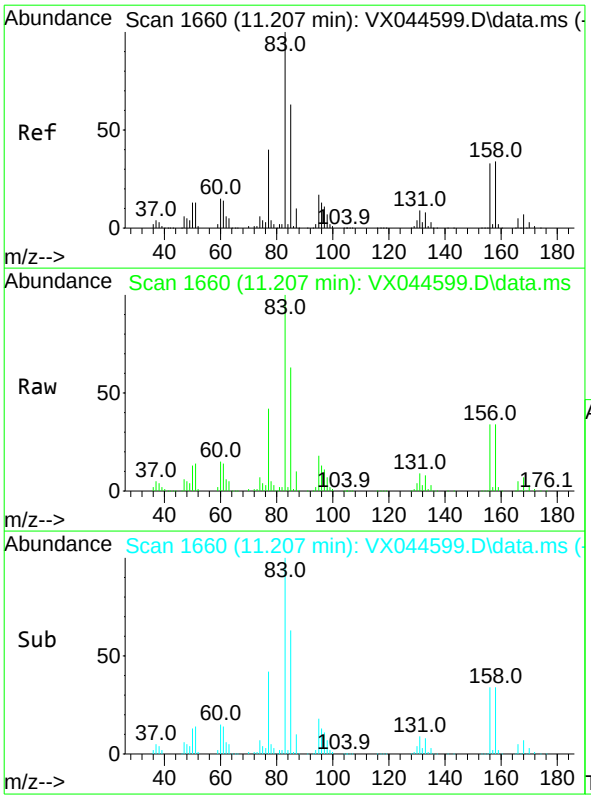


#74
N-amyl acetate
Concen: 56.857 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 43 Resp: 207077

Ion	Ratio	Lower	Upper
43	100		
70	41.1	32.9	49.3
55	23.8	19.0	28.6
61	23.1	18.5	27.7

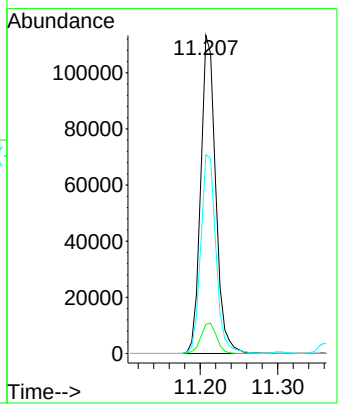




#75
1,1,2,2-Tetrachloroethane
Concen: 52.544 ug/l
RT: 11.207 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 83 Resp: 152021

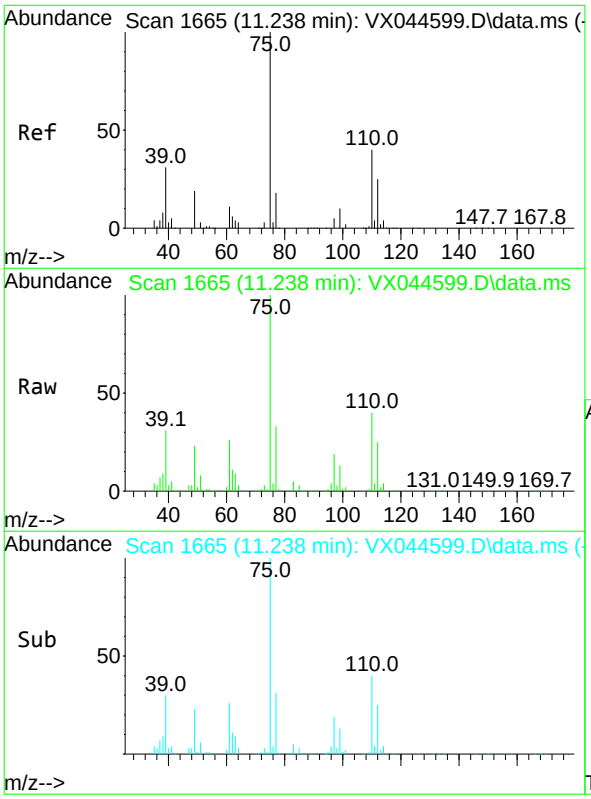
Ion	Ratio	Lower	Upper
83	100		
131	10.0	5.0	15.0
85	63.7	31.9	95.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

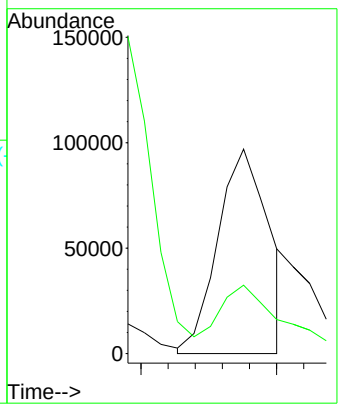
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

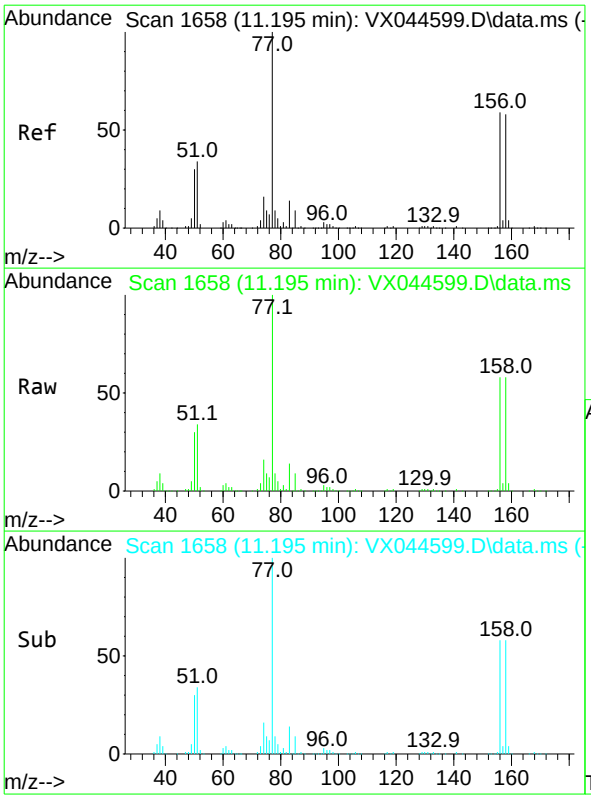


#76
1,2,3-Trichloropropane
Concen: 52.024 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 75 Resp: 126349

Ion	Ratio	Lower	Upper
75	100		
77	42.1	21.1	63.1





#77
Bromobenzene
Concen: 51.427 ug/l
RT: 11.195 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

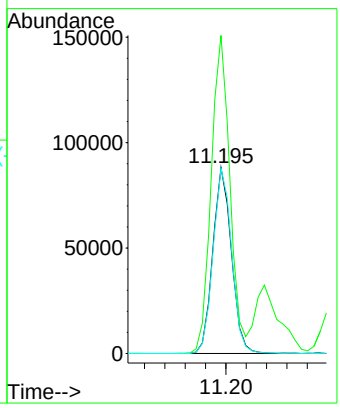
Tgt Ion:156 Resp: 112135

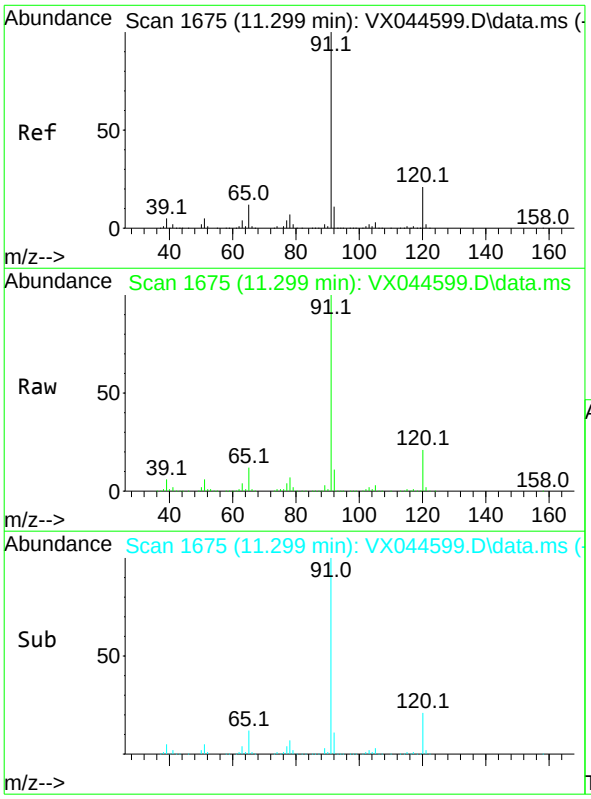
Ion	Ratio	Lower	Upper
156	100		
77	171.4	85.7	257.1
158	99.7	49.9	149.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

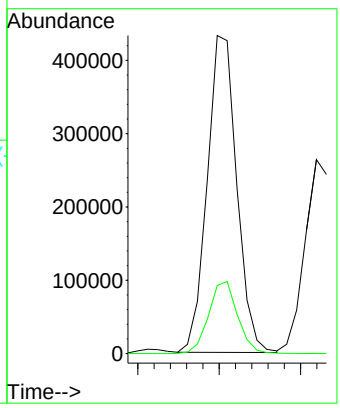


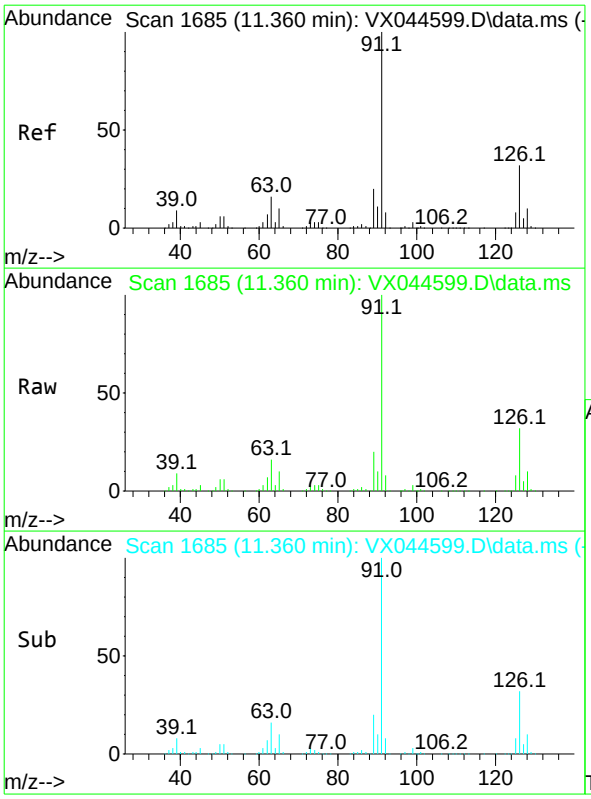


#78
n-propylbenzene
Concen: 53.936 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 91 Resp: 545301

Ion	Ratio	Lower	Upper
91	100		
120	22.3	11.2	33.5

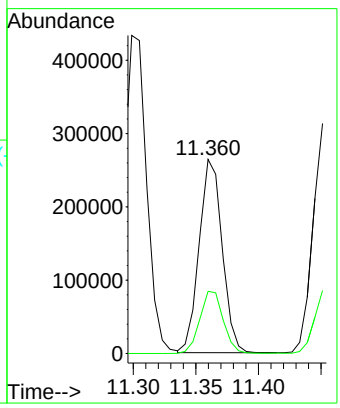




#79
2-Chlorotoluene
Concen: 51.544 ug/l
RT: 11.360 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 91 Resp: 337686

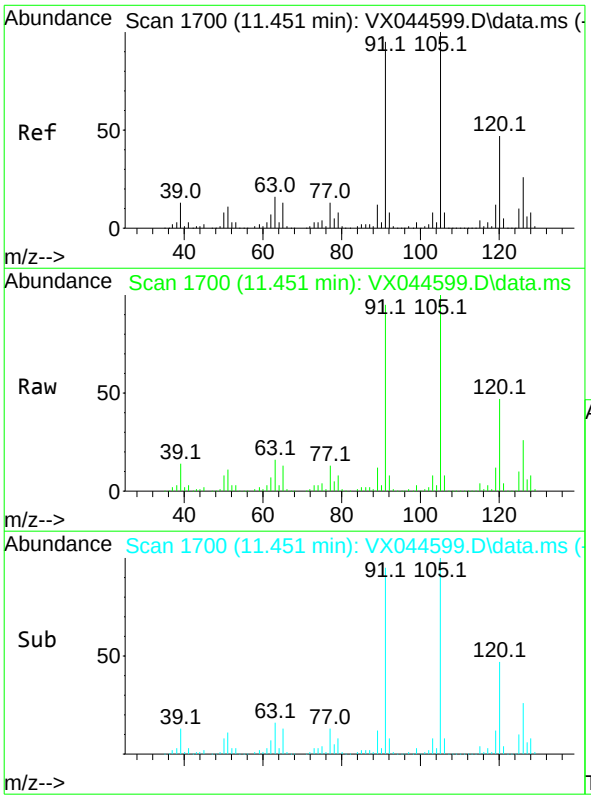
Ion	Ratio	Lower	Upper
91	100		
126	32.8	16.4	49.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

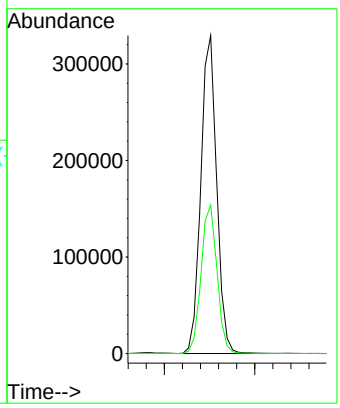
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

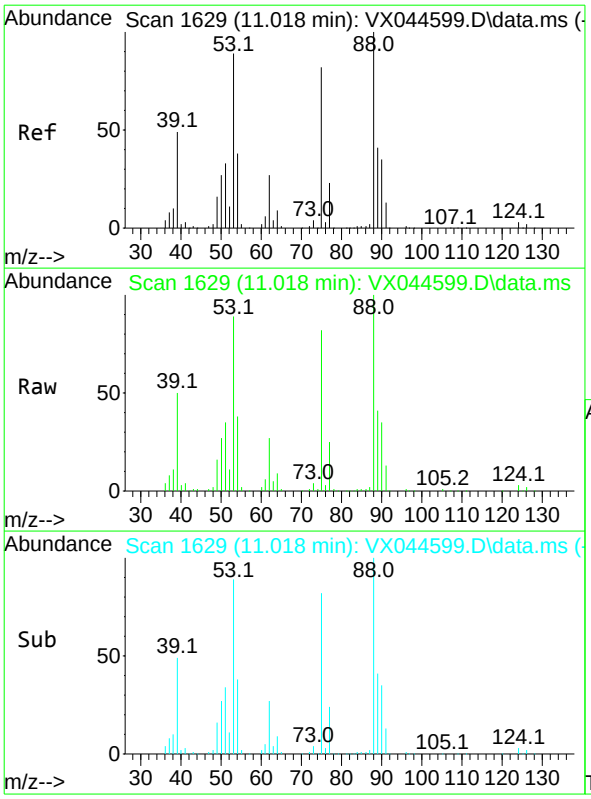


#80
1,3,5-Trimethylbenzene
Concen: 53.787 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion:105 Resp: 400300

Ion	Ratio	Lower	Upper
105	100		
120	47.0	23.5	70.5

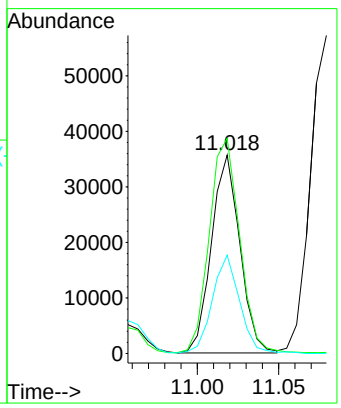




#81
trans-1,4-Dichloro-2-butene
Concen: 54.247 ug/l
RT: 11.018 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 75 Resp: 43281

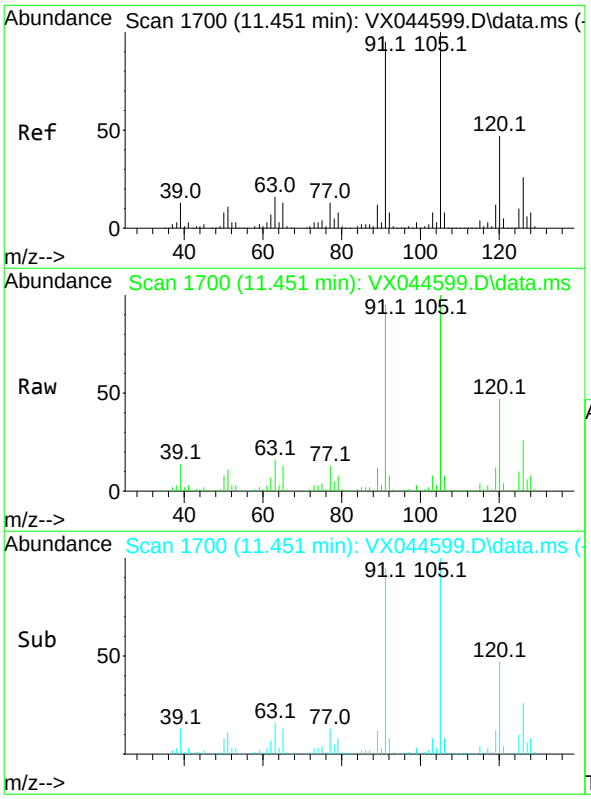
Ion	Ratio	Lower	Upper
75	100		
53	115.9	92.7	139.1
89	47.9	38.3	57.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

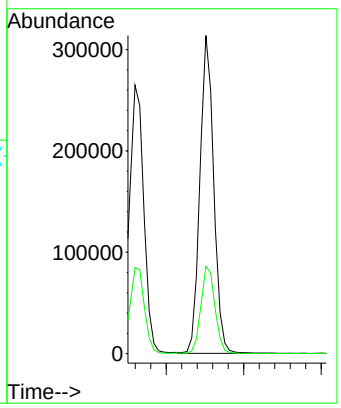
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

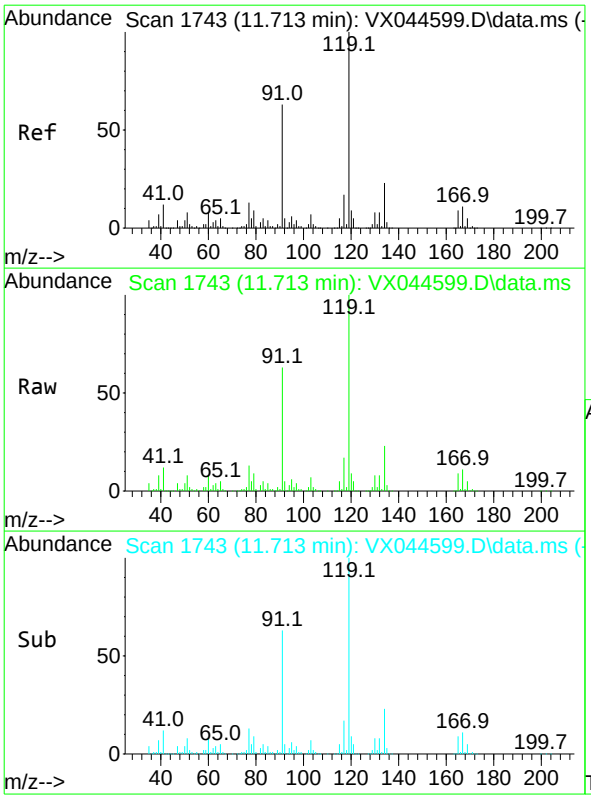


#82
4-Chlorotoluene
Concen: 52.596 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 91 Resp: 387640

Ion	Ratio	Lower	Upper
91	100		
126	28.0	14.0	42.0

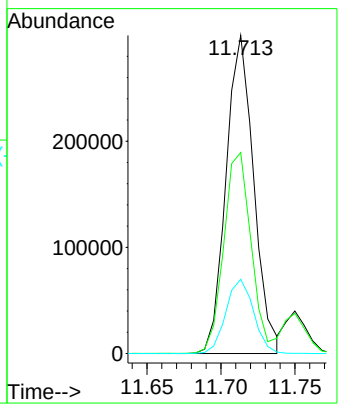




#83
tert-Butylbenzene
Concen: 52.730 ug/l
RT: 11.713 min Scan# 17
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion:119 Resp: 390758

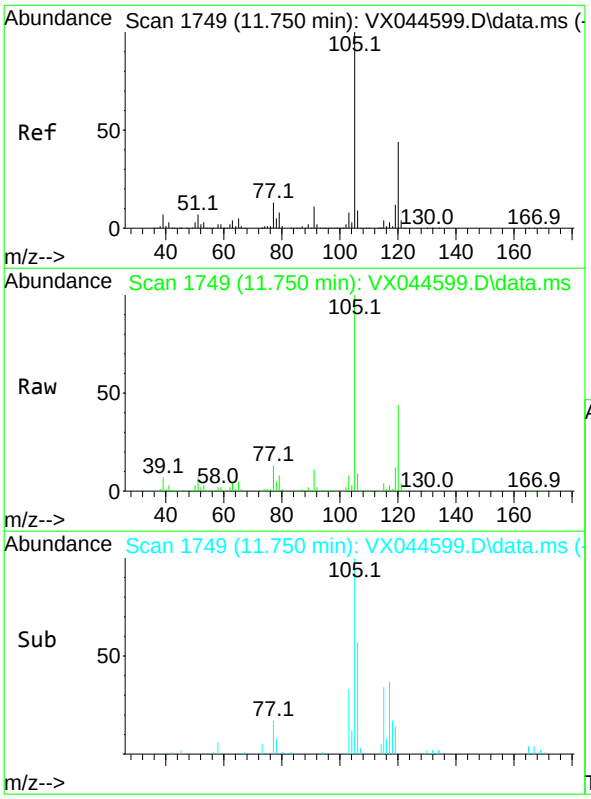
Ion	Ratio	Lower	Upper
119	100		
91	61.9	30.9	92.8
134	23.3	11.7	35.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

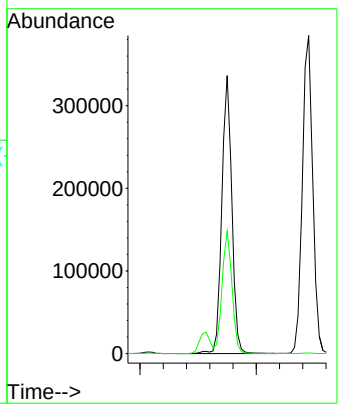
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

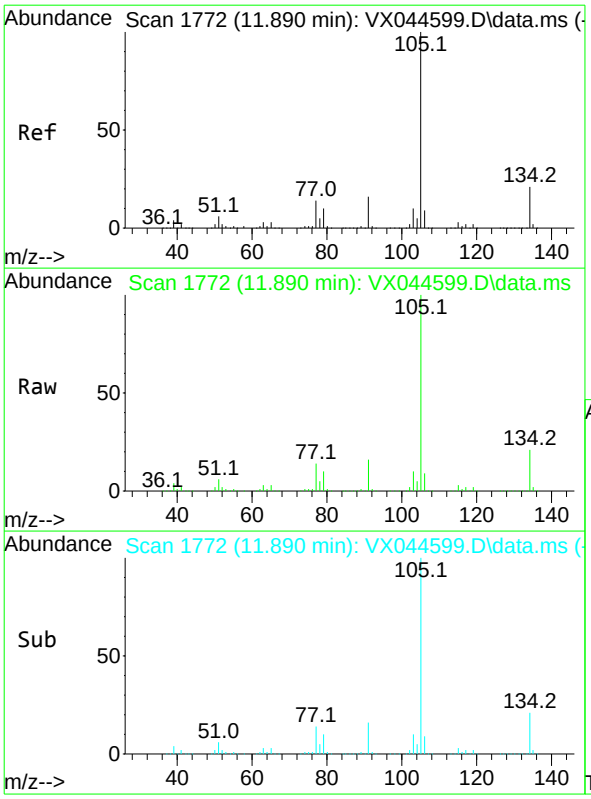


#84
1,2,4-Trimethylbenzene
Concen: 53.720 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion:105 Resp: 401606

Ion	Ratio	Lower	Upper
105	100		
120	43.8	21.9	65.7

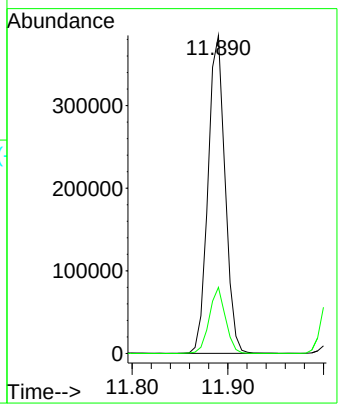




#85
sec-Butylbenzene
Concen: 52.634 ug/l
RT: 11.890 min Scan# 17
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion:105 Resp: 475025

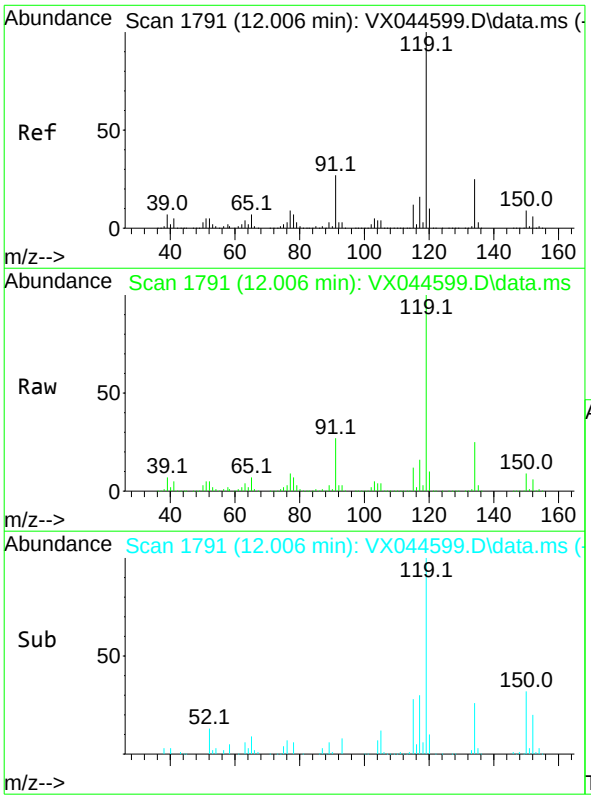
Ion	Ratio	Lower	Upper
105	100		
134	19.8	9.9	29.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

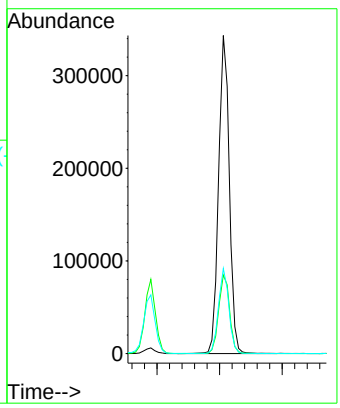
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

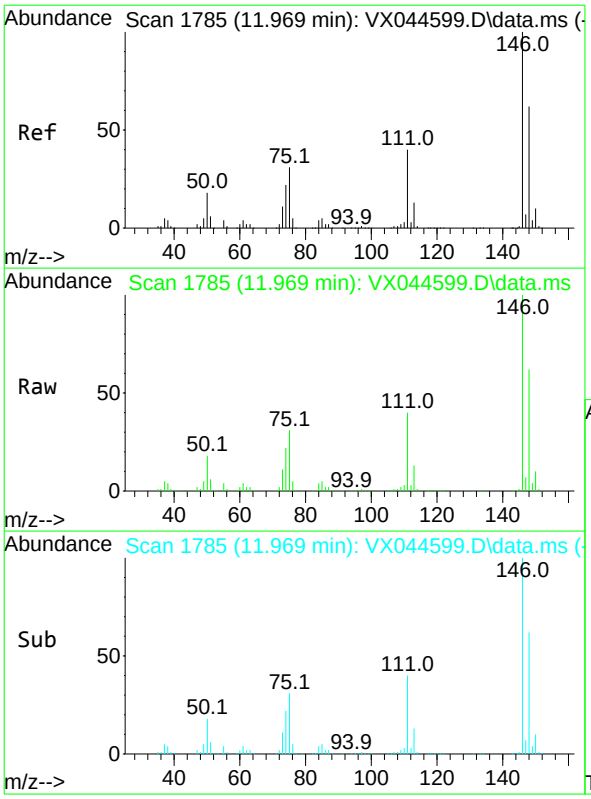


#86
p-Isopropyltoluene
Concen: 53.905 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion:119 Resp: 408205

Ion	Ratio	Lower	Upper
119	100		
134	25.2	12.6	37.8
91	26.1	13.1	39.1

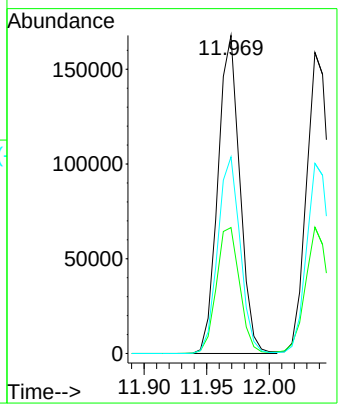




#87
1,3-Dichlorobenzene
Concen: 51.842 ug/l
RT: 11.969 min Scan# 17
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion:146 Resp: 204488

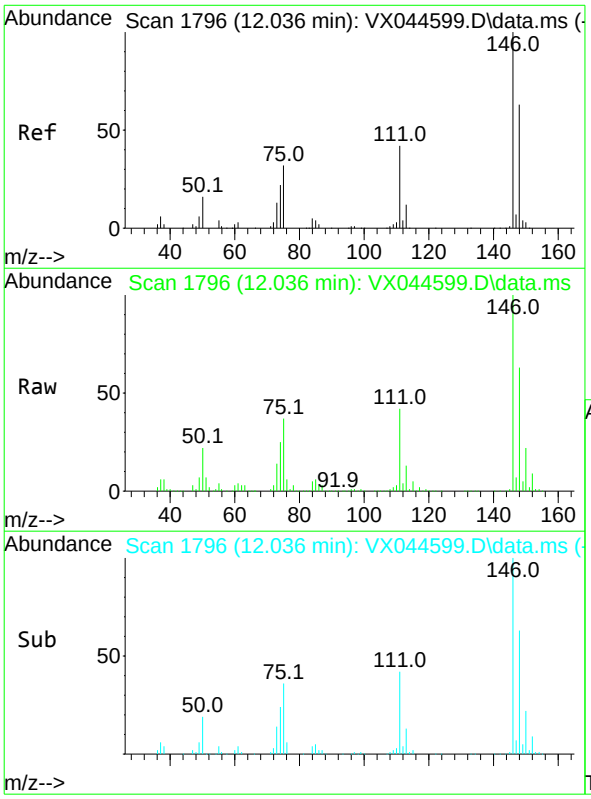
Ion	Ratio	Lower	Upper
146	100		
111	42.0	21.0	63.0
148	63.3	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

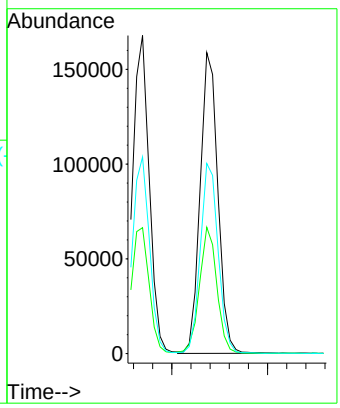
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

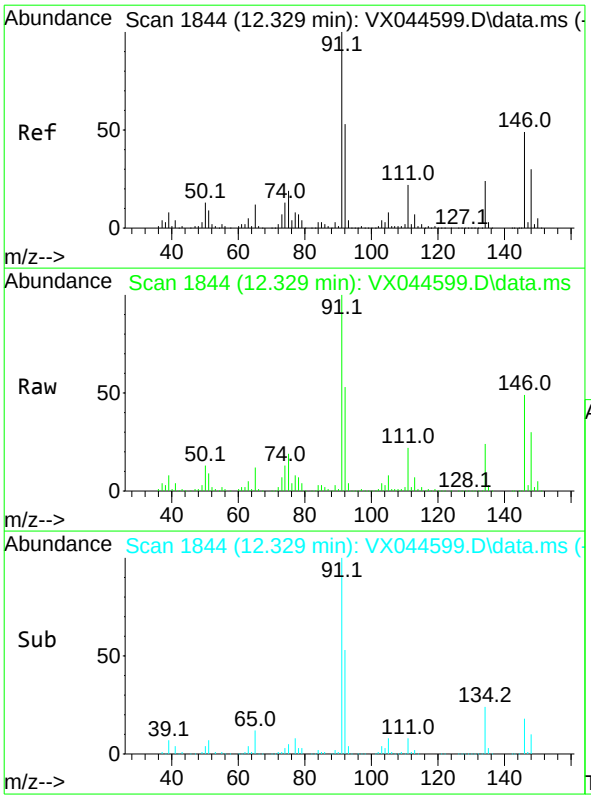


#88
1,4-Dichlorobenzene
Concen: 49.670 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion:146 Resp: 204130

Ion	Ratio	Lower	Upper
146	100		
111	41.4	20.7	62.1
148	63.6	31.8	95.4

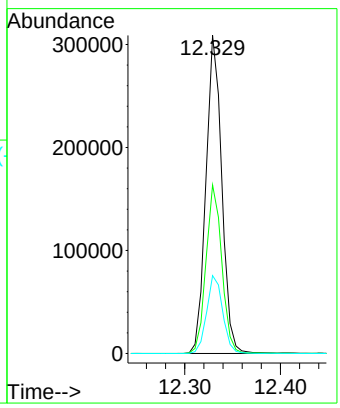




#89
n-Butylbenzene
Concen: 55.495 ug/l
RT: 12.329 min Scan# 18
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 91 Resp: 354854

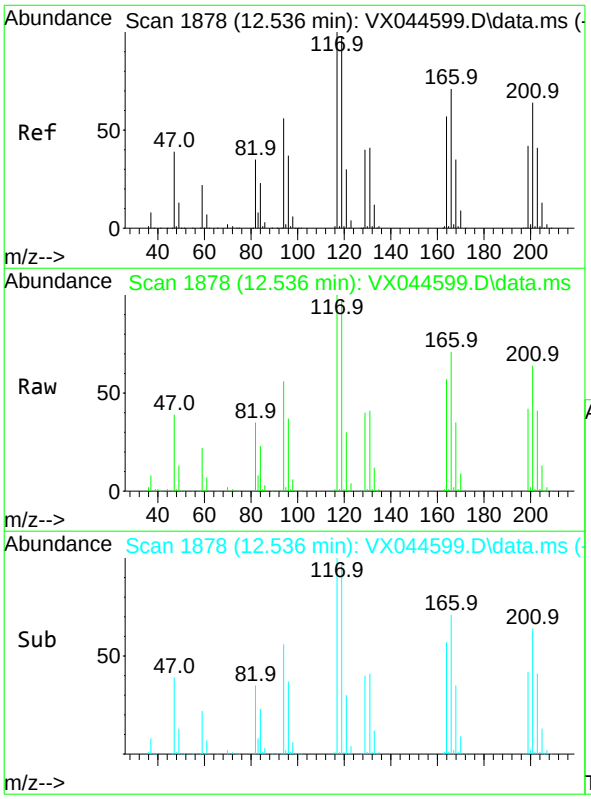
Ion	Ratio	Lower	Upper
91	100		
92	52.9	26.5	79.4
134	24.8	12.4	37.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

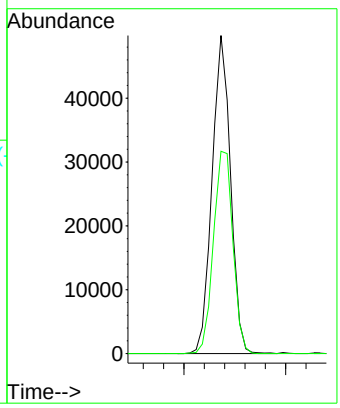
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

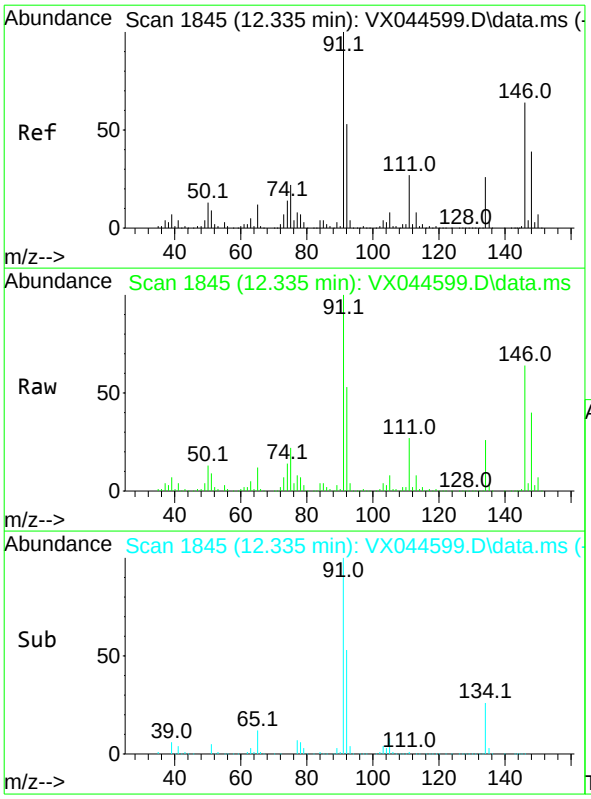


#90
Hexachloroethane
Concen: 51.608 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion:117 Resp: 62782

Ion	Ratio	Lower	Upper
117	100		
201	67.1	33.6	100.6

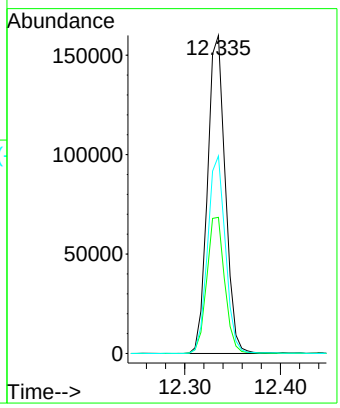




#91
1,2-Dichlorobenzene
Concen: 51.646 ug/l
RT: 12.335 min Scan# 18
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion:146 Resp: 205860

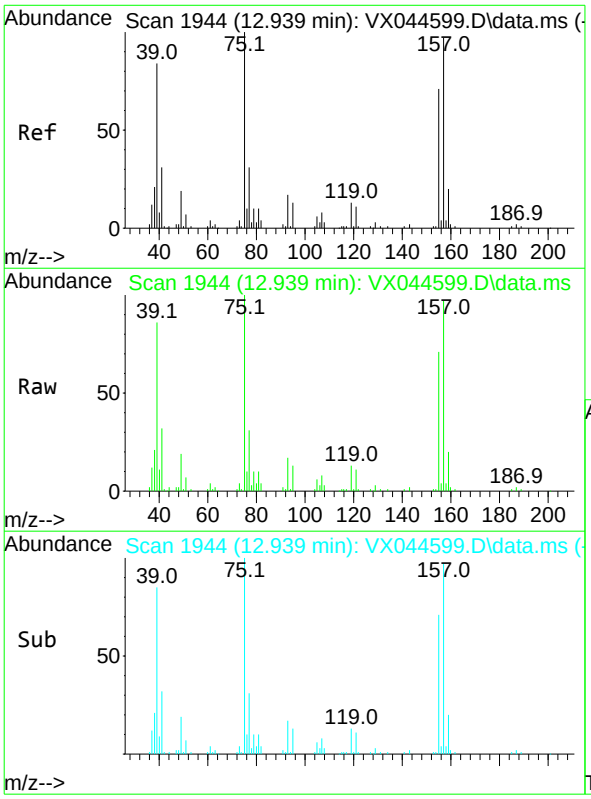
Ion	Ratio	Lower	Upper
146	100		
111	43.6	21.8	65.4
148	62.2	31.1	93.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

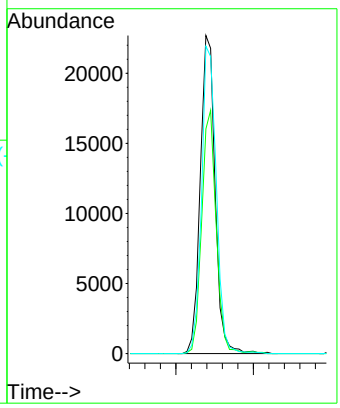
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

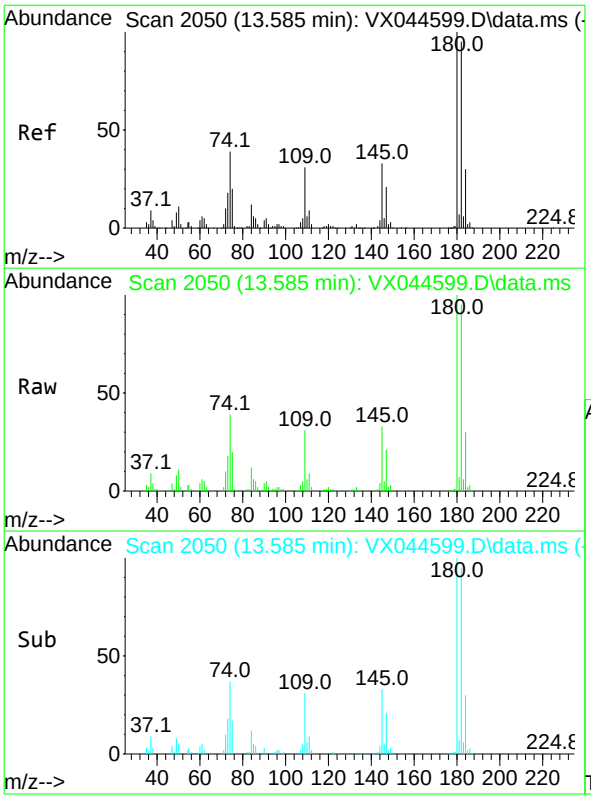


#92
1,2-Dibromo-3-Chloropropane
Concen: 54.942 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 75 Resp: 30135

Ion	Ratio	Lower	Upper
75	100		
155	74.7	37.4	112.1
157	96.1	48.0	144.2

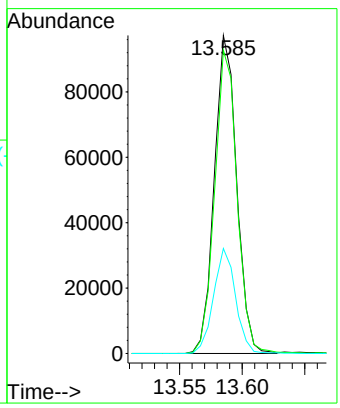




#93
1,2,4-Trichlorobenzene
Concen: 51.442 ug/l
RT: 13.585 min Scan# 20
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion:180 Resp: 120511

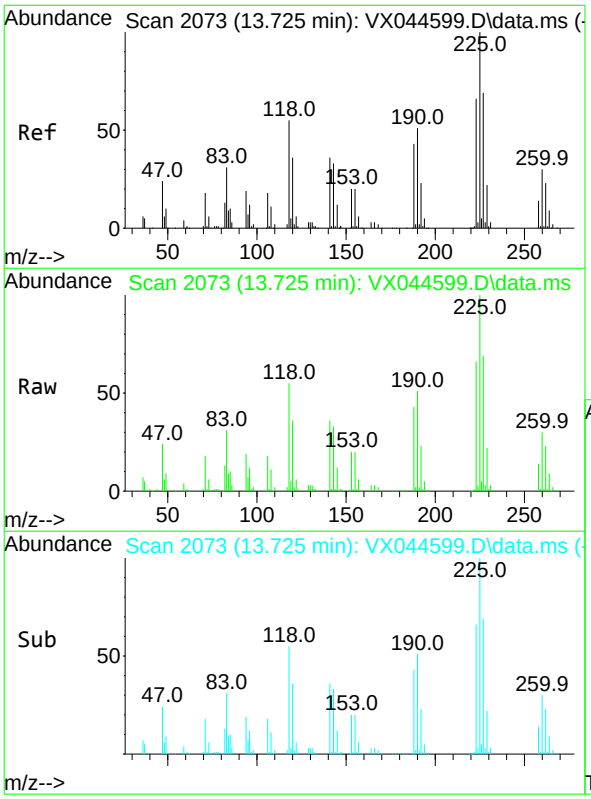
Ion	Ratio	Lower	Upper
180	100		
182	95.7	47.9	143.6
145	32.6	16.3	48.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

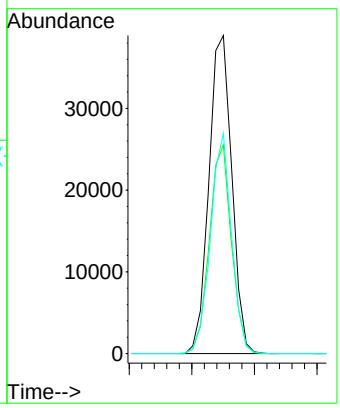
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

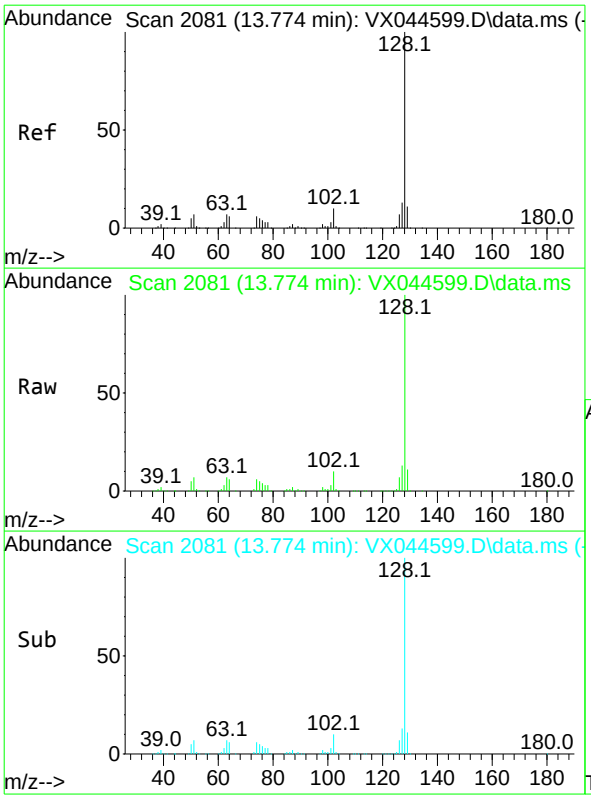


#94
Hexachlorobutadiene
Concen: 50.597 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion:225 Resp: 49357

Ion	Ratio	Lower	Upper
225	100		
223	63.2	31.6	94.8
227	63.9	31.9	95.9

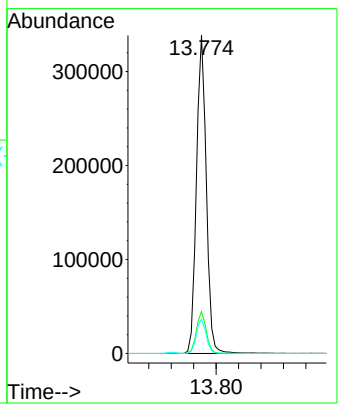




#95
Naphthalene
Concen: 54.539 ug/l
RT: 13.774 min Scan# 20
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion:128 Resp: 412247

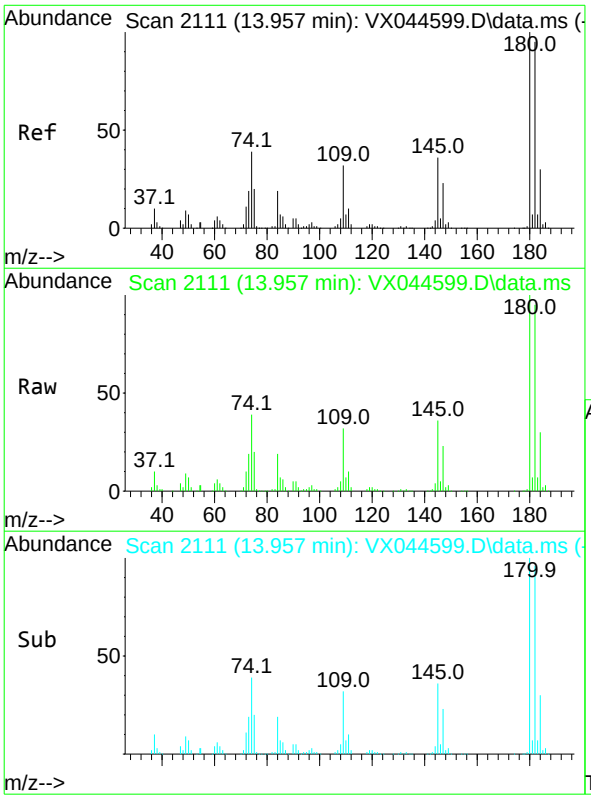
Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.5	15.7
129	10.8	8.6	13.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

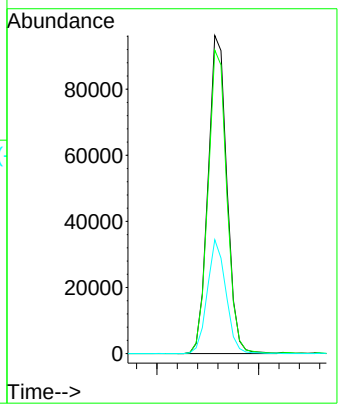
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025



#96
1,2,3-Trichlorobenzene
Concen: 51.567 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion:180 Resp: 123494

Ion	Ratio	Lower	Upper
180	100		
182	95.3	47.6	142.9
145	35.3	17.6	52.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044600.D
Acq On : 07 Jan 2025 11:37
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 08 02:31:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 02:18:40 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	182288	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	310906	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	267228	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	128628	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	298512	101.563	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 203.120%#			
35) Dibromofluoromethane	5.379	113	216660	101.626	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 203.260%#			
50) Toluene-d8	8.647	98	736918	101.194	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 202.380%#			
62) 4-Bromofluorobenzene	11.079	95	268349	104.402	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 208.800%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	281621	106.773	ug/l	97
3) Chloromethane	1.294	50	256122	97.445	ug/l	99
4) Vinyl Chloride	1.374	62	253719	102.900	ug/l	100
5) Bromomethane	1.599	94	134602	105.387	ug/l	100
6) Chloroethane	1.666	64	140929	107.665	ug/l	100
7) Trichlorofluoromethane	1.874	101	398258	108.476	ug/l	96
8) Diethyl Ether	2.130	74	137508	105.999	ug/l	94
9) 1,1,2-Trichlorotrifluo...	2.319	101	217440	103.297	ug/l	100
10) Methyl Iodide	2.447	142	288793	98.385	ug/l	99
11) Tert butyl alcohol	2.995	59	186586	515.545	ug/l	100
12) 1,1-Dichloroethene	2.313	96	206051	101.042	ug/l	97
13) Acrolein	2.233	56	258524	540.255	ug/l	99
14) Allyl chloride	2.660	41	371559	109.554	ug/l	99
15) Acrylonitrile	3.062	53	537482	515.650	ug/l	99
16) Acetone	2.380	43	479188	517.276	ug/l	100
17) Carbon Disulfide	2.508	76	494332	117.230	ug/l	100
18) Methyl Acetate	2.703	43	282139	103.188	ug/l	98
19) Methyl tert-butyl Ether	3.111	73	733689	104.984	ug/l	100
20) Methylene Chloride	2.782	84	229290	97.019	ug/l	98
21) trans-1,2-Dichloroethene	3.087	96	214461	102.468	ug/l	95
22) Diisopropyl ether	3.757	45	736946	105.701	ug/l	95
23) Vinyl Acetate	3.715	43	3263158	578.791	ug/l	100
24) 1,1-Dichloroethane	3.605	63	421306	103.707	ug/l	99
25) 2-Butanone	4.556	43	727090	543.775	ug/l	98
26) 2,2-Dichloropropane	4.471	77	373500	106.339	ug/l	99
27) cis-1,2-Dichloroethene	4.477	96	259280	101.596	ug/l	99
28) Bromochloromethane	4.891	49	192580	101.838	ug/l	96
29) Tetrahydrofuran	5.001	42	477636	521.636	ug/l	98
30) Chloroform	5.086	83	441057	100.708	ug/l	99
31) Cyclohexane	5.458	56	343501	102.984	ug/l	96
32) 1,1,1-Trichloroethane	5.379	97	395161	107.215	ug/l	100
36) 1,1-Dichloropropene	5.684	75	288443	104.631	ug/l	100
37) Ethyl Acetate	4.708	43	305727	108.495	ug/l	99
38) Carbon Tetrachloride	5.672	117	332090	108.573	ug/l	97
39) Methylcyclohexane	7.373	83	368363	104.721	ug/l	99
40) Benzene	6.031	78	870111	100.244	ug/l	100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044600.D
Acq On : 07 Jan 2025 11:37
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 08 02:31:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 02:18:40 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	4.922	41	172379	113.877 ug/l	97
42) 1,2-Dichloroethane	6.080	62	358563	105.631 ug/l	100
43) Isopropyl Acetate	6.336	43	511813	110.008 ug/l	99
44) Trichloroethene	7.123	130	219638	98.990 ug/l	99
45) 1,2-Dichloropropane	7.421	63	219320	103.636 ug/l	100
46) Dibromomethane	7.574	93	166973	101.452 ug/l	99
47) Bromodichloromethane	7.818	83	329340	109.962 ug/l	99
48) Methyl methacrylate	7.690	41	251364	113.277 ug/l	98
49) 1,4-Dioxane	7.665	88	66197	2030.048 ug/l	97
51) 4-Methyl-2-Pentanone	8.574	43	1483866	545.612 ug/l	100
52) Toluene	8.714	92	537927	102.712 ug/l	95
53) t-1,3-Dichloropropene	8.976	75	334122	116.711 ug/l	97
54) cis-1,3-Dichloropropene	8.360	75	357294	111.049 ug/l	98
55) 1,1,2-Trichloroethane	9.147	97	202789	98.770 ug/l	98
56) Ethyl methacrylate	9.116	69	336196	112.594 ug/l	99
57) 1,3-Dichloropropane	9.305	76	351820	102.044 ug/l	100
58) 2-Chloroethyl Vinyl ether	8.238	63	820346	554.192 ug/l	99
59) 2-Hexanone	9.427	43	1082252	562.682 ug/l	99
60) Dibromochloromethane	9.519	129	230891	112.783 ug/l	99
61) 1,2-Dibromoethane	9.604	107	213851	103.131 ug/l	98
64) Tetrachloroethene	9.269	164	180662	95.619 ug/l	97
65) Chlorobenzene	10.073	112	567868	100.126 ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.159	131	202443	107.471 ug/l	99
67) Ethyl Benzene	10.189	91	1012626	103.973 ug/l	98
68) m/p-Xylenes	10.299	106	759829	212.310 ug/l	98
69) o-Xylene	10.640	106	370442	102.549 ug/l	99
70) Styrene	10.653	104	631408	109.281 ug/l	100
71) Bromoform	10.799	173	144682	100.045 ug/l #	99
73) Isopropylbenzene	10.957	105	962130	100.962 ug/l	100
74) N-amyl acetate	10.842	43	448832	116.075 ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.213	83	300014	97.671 ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	256224m	99.370 ug/l	
77) Bromobenzene	11.195	156	229880	99.301 ug/l	99
78) n-propylbenzene	11.305	91	1123872	104.704 ug/l	99
79) 2-Chlorotoluene	11.360	91	676433	97.250 ug/l	98
80) 1,3,5-Trimethylbenzene	11.451	105	812896	102.880 ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	96267	113.646 ug/l	98
82) 4-Chlorotoluene	11.451	91	788178	100.727 ug/l	99
83) tert-Butylbenzene	11.713	119	802790	102.037 ug/l	99
84) 1,2,4-Trimethylbenzene	11.750	105	810865	102.161 ug/l	100
85) sec-Butylbenzene	11.890	105	988328	103.145 ug/l	100
86) p-Isopropyltoluene	12.006	119	848479	105.534 ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	419032	100.060 ug/l	99
88) 1,4-Dichlorobenzene	12.036	146	421191	96.532 ug/l	99
89) n-Butylbenzene	12.329	91	765855	112.811 ug/l	99
90) Hexachloroethane	12.536	117	143461	111.076 ug/l	98
91) 1,2-Dichlorobenzene	12.335	146	414572	97.964 ug/l	98
92) 1,2-Dibromo-3-Chloropr...	12.939	75	66164	113.620 ug/l	99
93) 1,2,4-Trichlorobenzene	13.585	180	263479	105.934 ug/l	100
94) Hexachlorobutadiene	13.725	225	105982	102.333 ug/l	99
95) Naphthalene	13.774	128	884039	110.159 ug/l	99
96) 1,2,3-Trichlorobenzene	13.957	180	262997	103.439 ug/l	100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044600.D
Acq On : 07 Jan 2025 11:37
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

Quant Time: Jan 08 02:31:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 02:18:40 2025
Response via : Initial Calibration

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

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

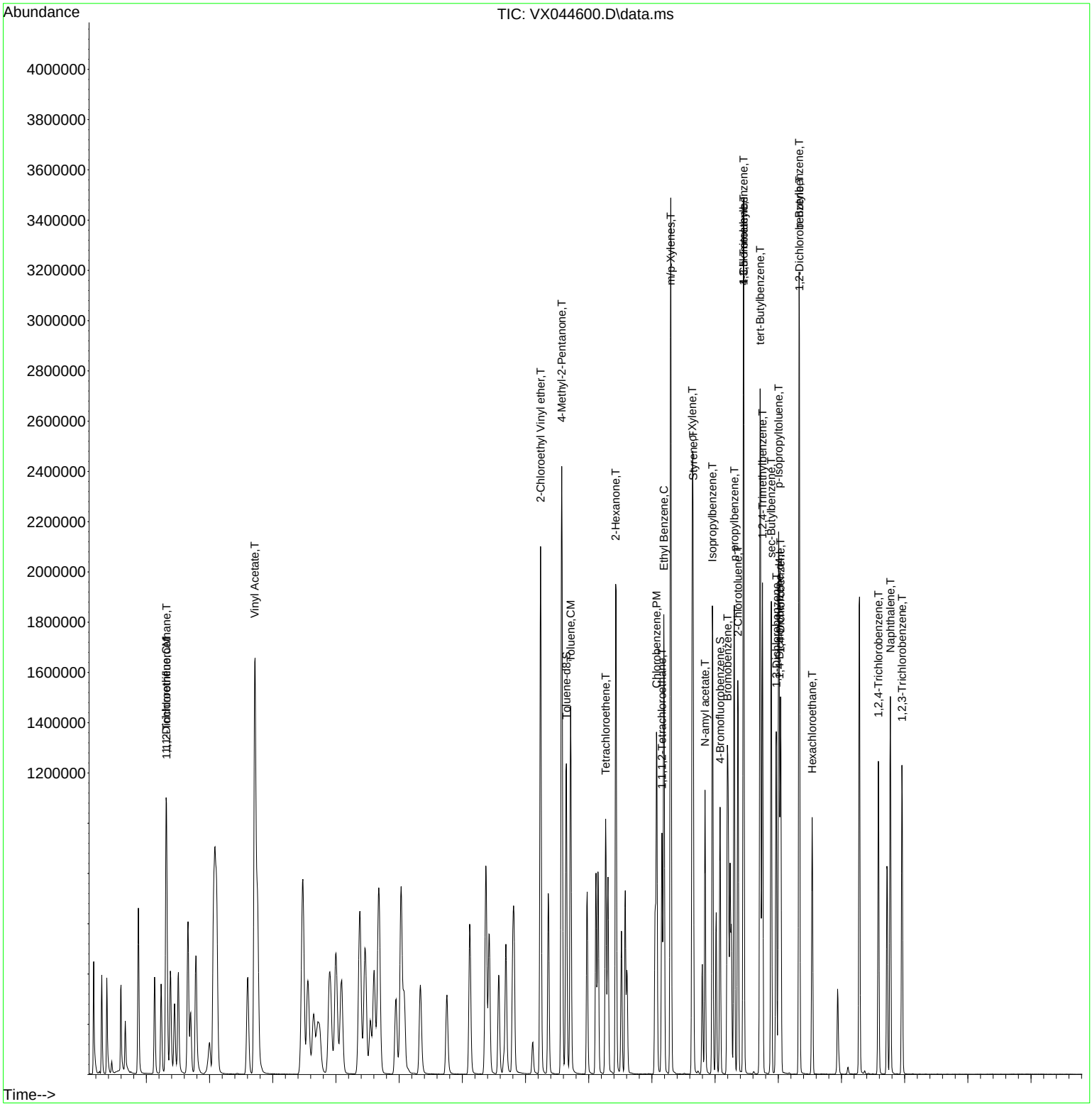
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044600.D
Acq On : 07 Jan 2025 11:37
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

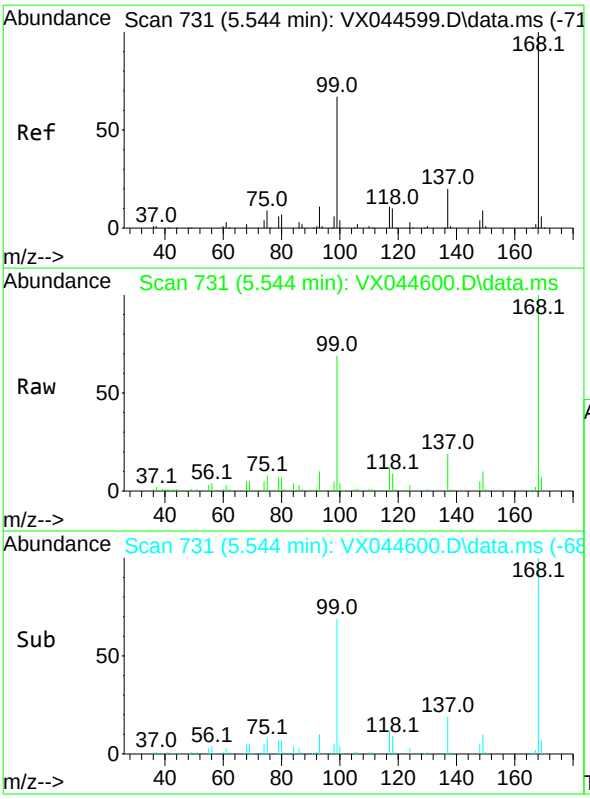
Quant Time: Jan 08 02:31:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 02:18:40 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

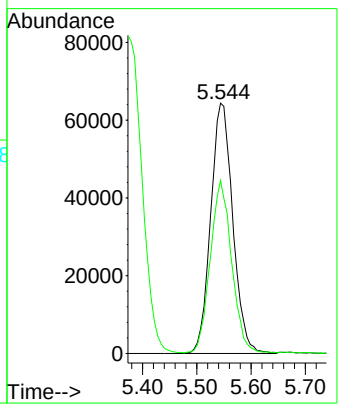




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 73
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion:168 Resp: 182288

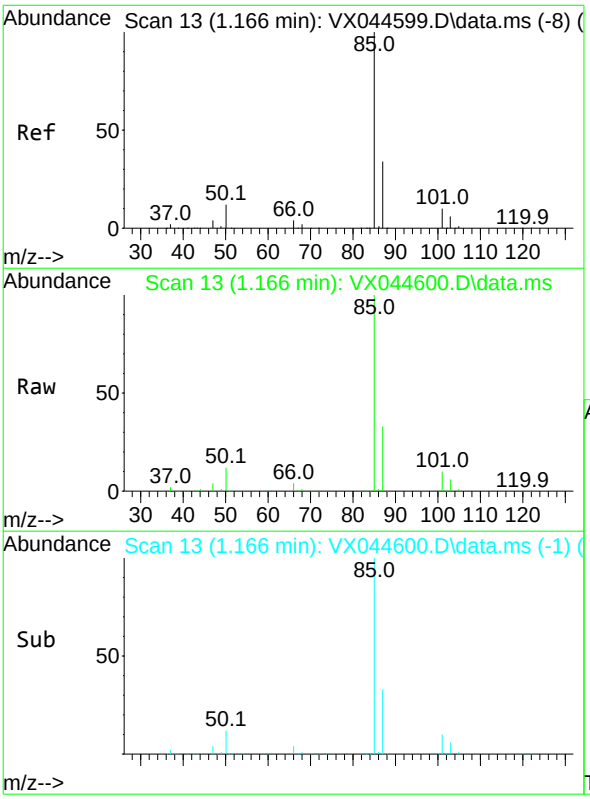
Ion	Ratio	Lower	Upper
168	100		
99	68.8	53.5	80.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

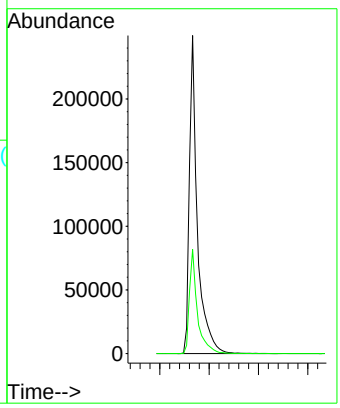
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

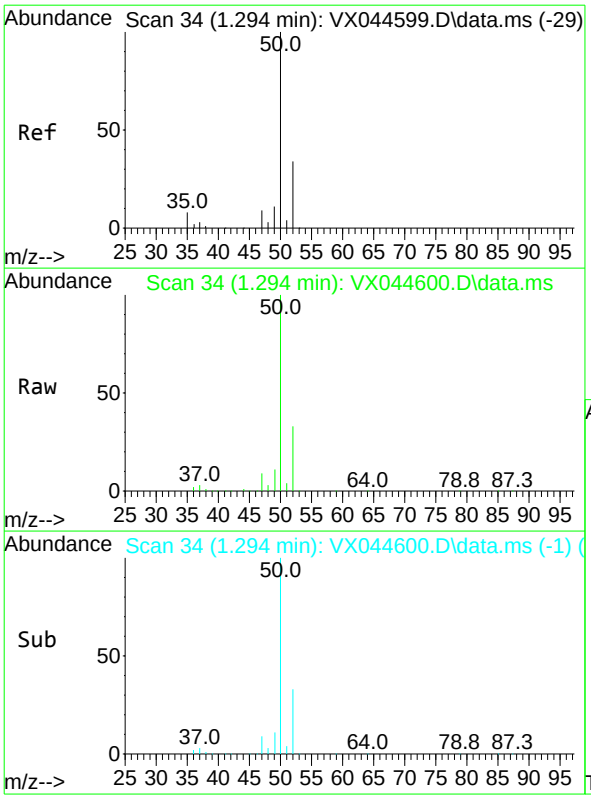


#2
Dichlorodifluoromethane
Concen: 106.773 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 85 Resp: 281621

Ion	Ratio	Lower	Upper
85	100		
87	32.8	17.2	51.5

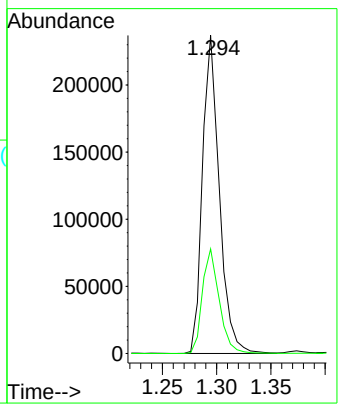




#3
Chloromethane
Concen: 97.445 ug/l
RT: 1.294 min Scan# 34
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 50 Resp: 256122

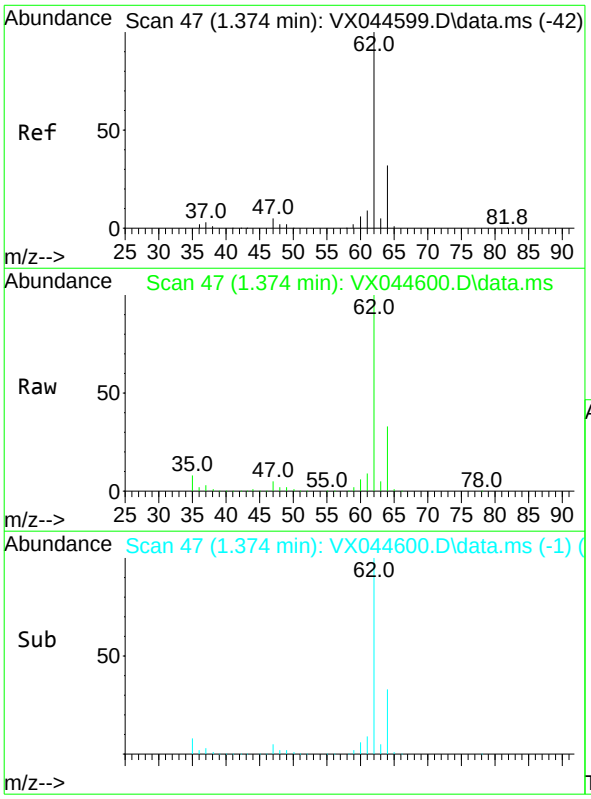
Ion	Ratio	Lower	Upper
50	100		
52	32.9	27.0	40.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

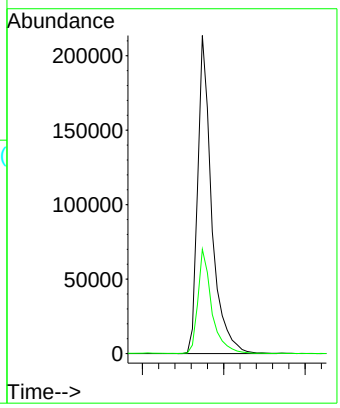
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

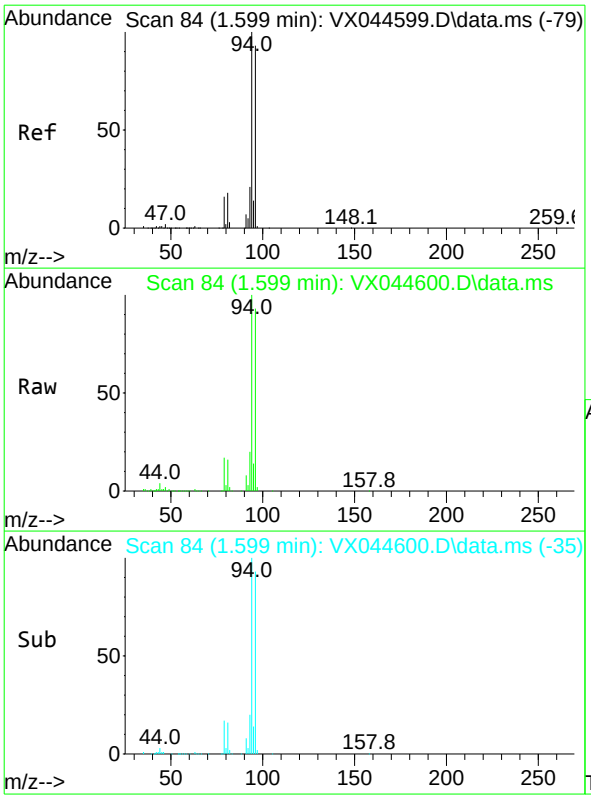


#4
Vinyl Chloride
Concen: 102.900 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 62 Resp: 253719

Ion	Ratio	Lower	Upper
62	100		
64	32.7	26.0	39.0

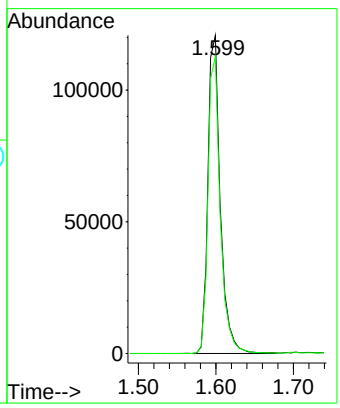




#5
Bromomethane
Concen: 105.387 ug/l
RT: 1.599 min Scan# 84
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 94 Resp: 134602

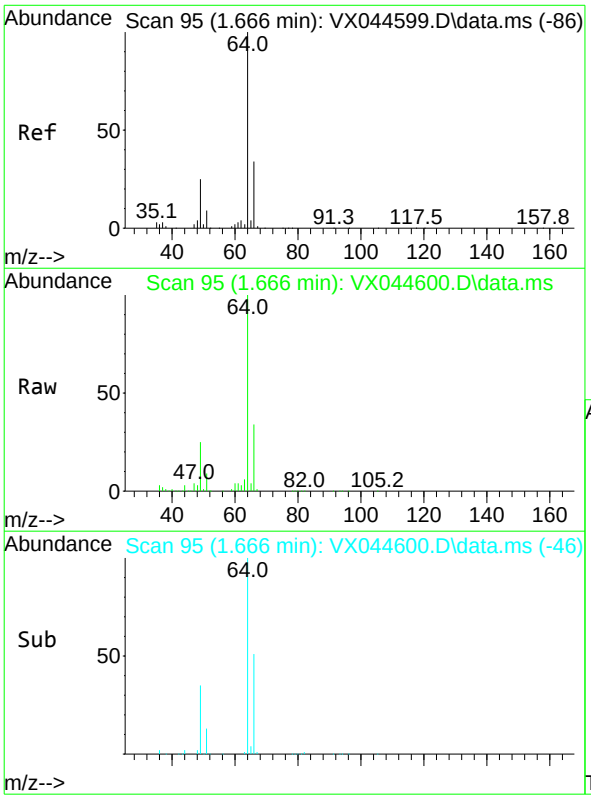
Ion	Ratio	Lower	Upper
94	100		
96	93.3	74.6	112.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

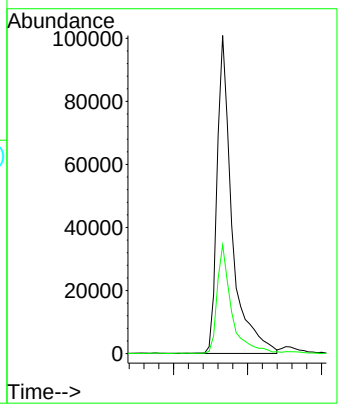
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

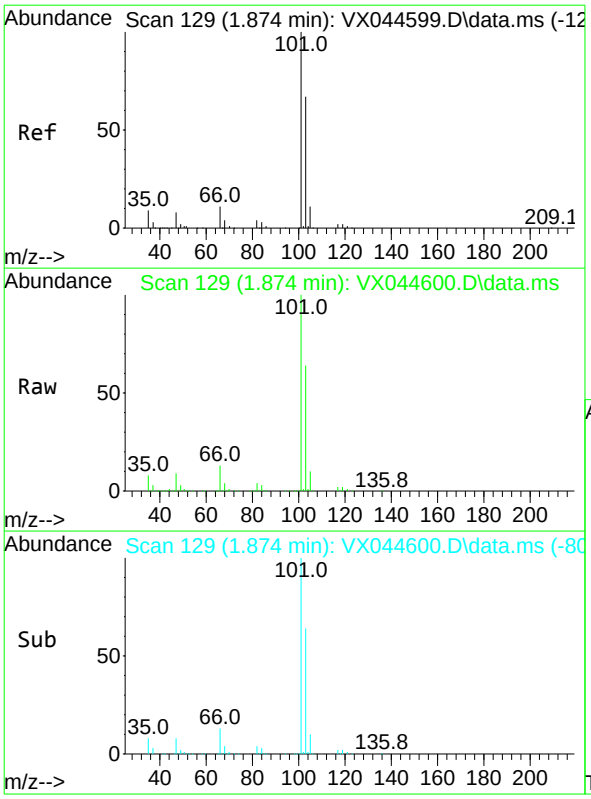


#6
Chloroethane
Concen: 107.665 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 64 Resp: 140929

Ion	Ratio	Lower	Upper
64	100		
66	34.0	27.3	40.9

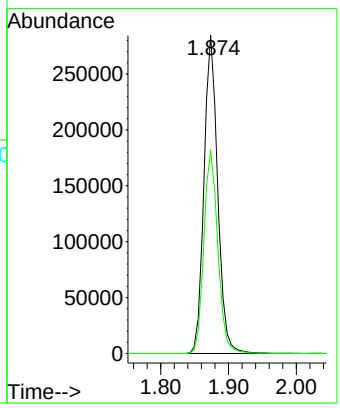




#7
Trichlorofluoromethane
Concen: 108.476 ug/l
RT: 1.874 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion:101 Resp: 398258

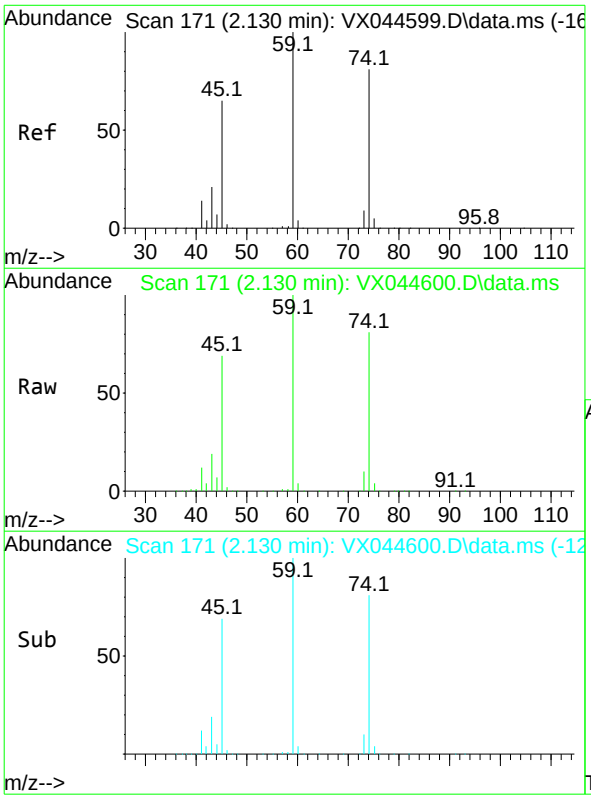
Ion	Ratio	Lower	Upper
101	100		
103	63.6	53.3	79.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

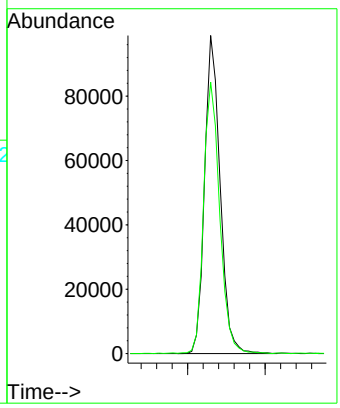
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

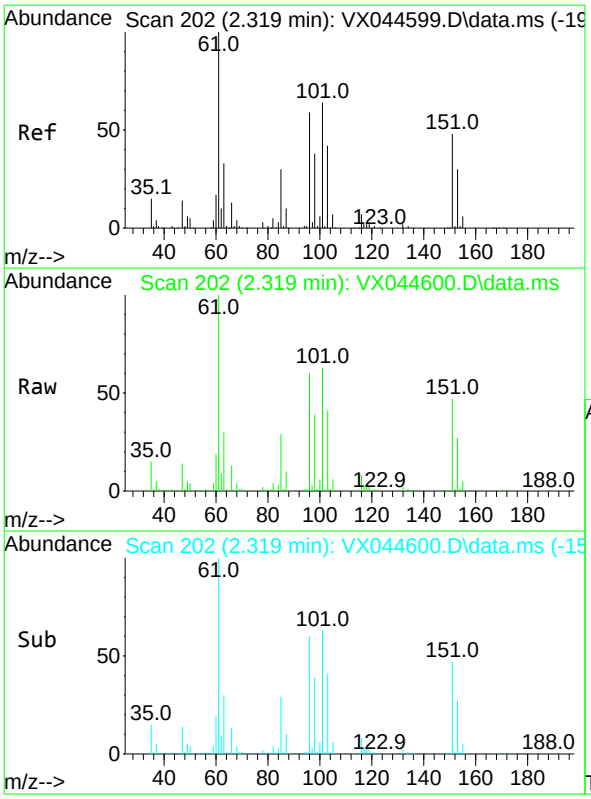


#8
Diethyl Ether
Concen: 105.999 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 74 Resp: 137508

Ion	Ratio	Lower	Upper
74	100		
45	88.8	41.7	125.1

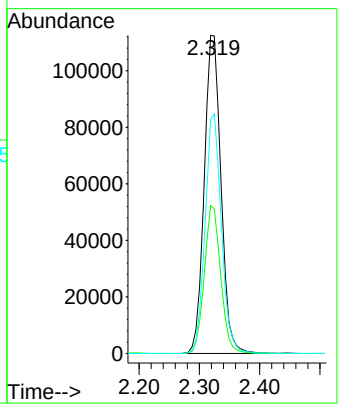




#9
1,1,2-Trichlorotrifluoroethane
Concen: 103.297 ug/l
RT: 2.319 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion:101 Resp: 217440

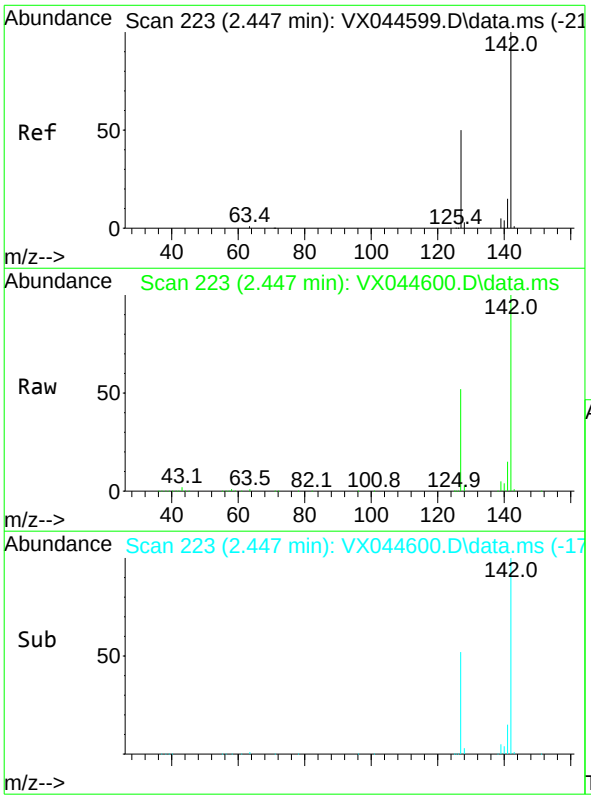
Ion	Ratio	Lower	Upper
101	100		
85	45.4	36.5	54.7
151	73.4	58.6	87.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

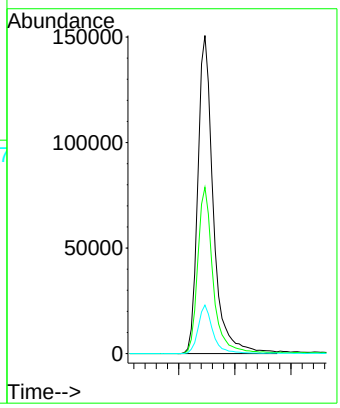
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

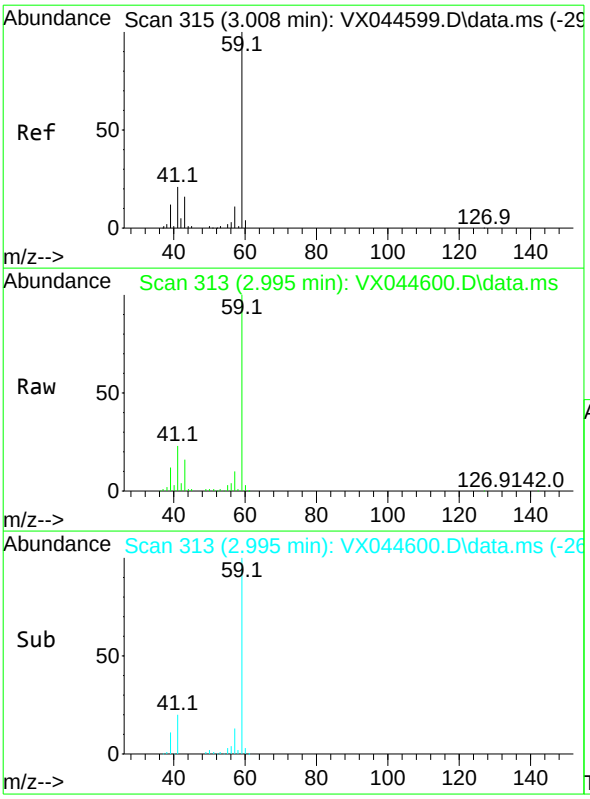


#10
Methyl Iodide
Concen: 98.385 ug/l
RT: 2.447 min Scan# 223
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion:142 Resp: 288793

Ion	Ratio	Lower	Upper
142	100		
127	51.7	41.9	62.9
141	14.5	11.8	17.6

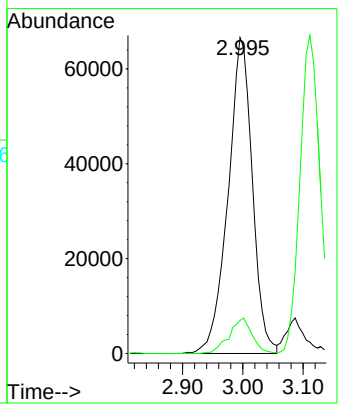




#11
Tert butyl alcohol
Concen: 515.545 ug/l
RT: 2.995 min Scan# 31
Delta R.T. -0.012 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 59 Resp: 186586

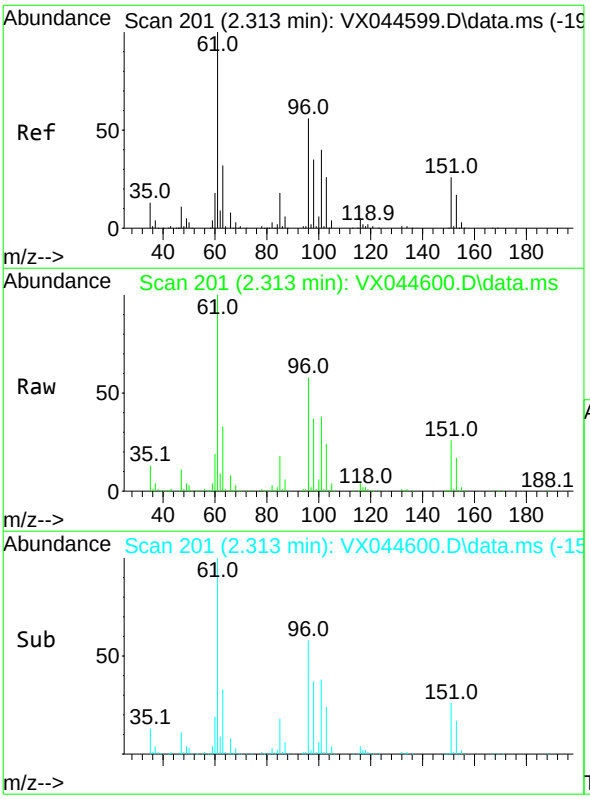
Ion	Ratio	Lower	Upper
59	100		
57	10.7	8.6	12.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

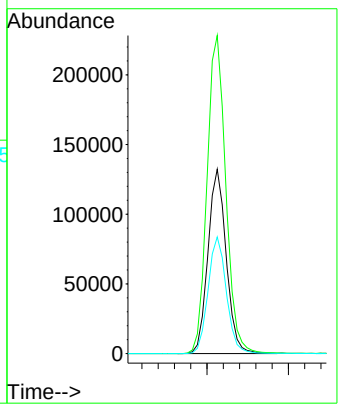
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

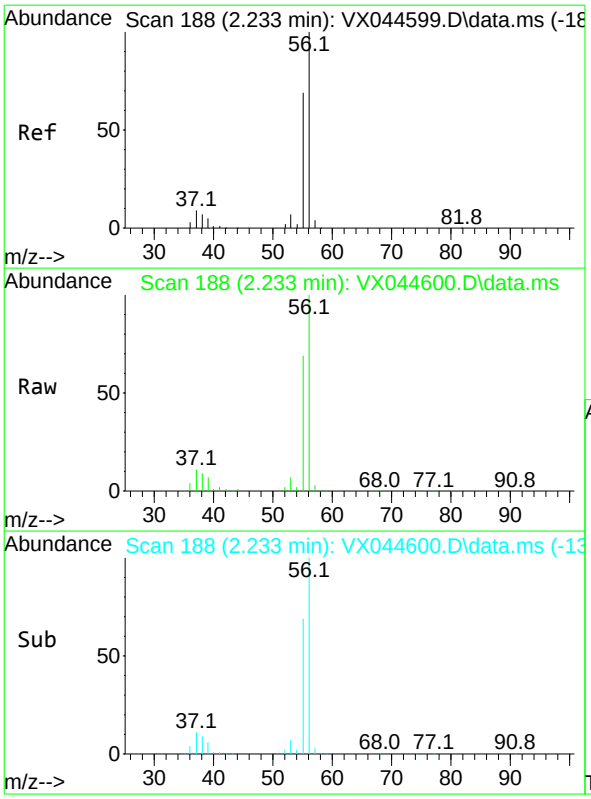


#12
1,1-Dichloroethene
Concen: 101.042 ug/l
RT: 2.313 min Scan# 201
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 96 Resp: 206051

Ion	Ratio	Lower	Upper
96	100		
61	172.5	143.3	214.9
98	63.3	50.6	76.0

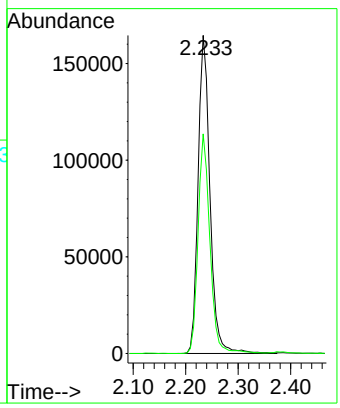




#13
Acrolein
Concen: 540.255 ug/l
RT: 2.233 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 56 Resp: 258524

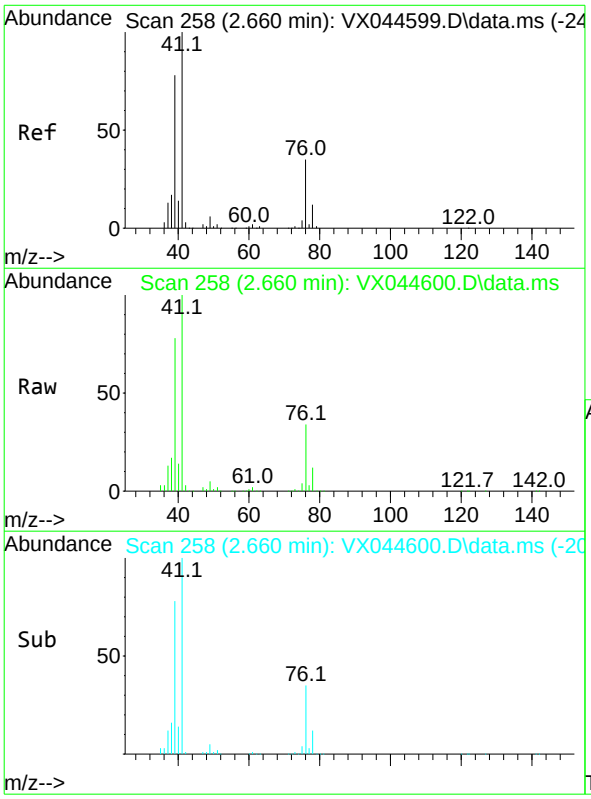
Ion	Ratio	Lower	Upper
56	100		
55	69.0	55.8	83.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

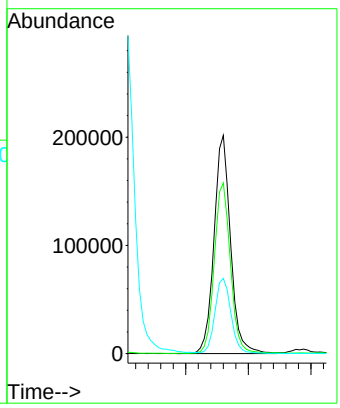
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

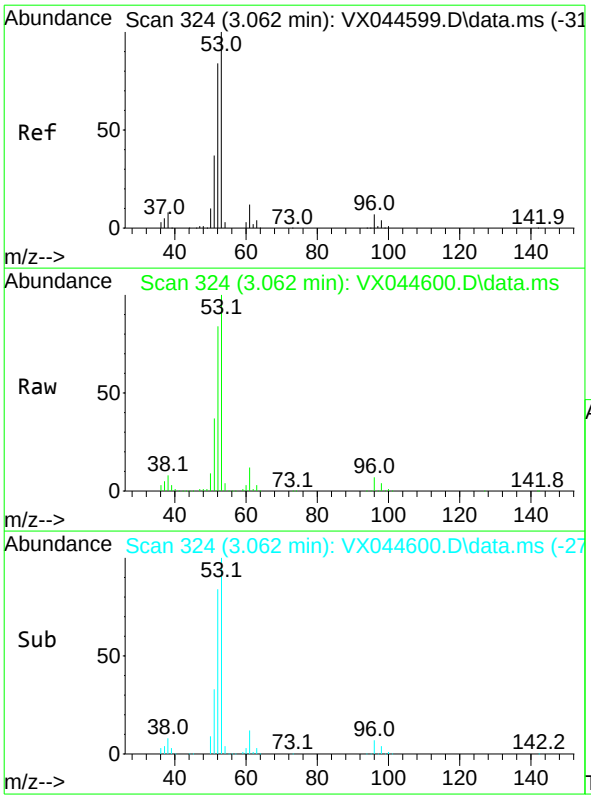


#14
Allyl chloride
Concen: 109.554 ug/l
RT: 2.660 min Scan# 258
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 41 Resp: 371559

Ion	Ratio	Lower	Upper
41	100		
39	75.6	60.2	90.2
76	33.2	25.9	38.9





#15
Acrylonitrile
Concen: 515.650 ug/l
RT: 3.062 min Scan# 32
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

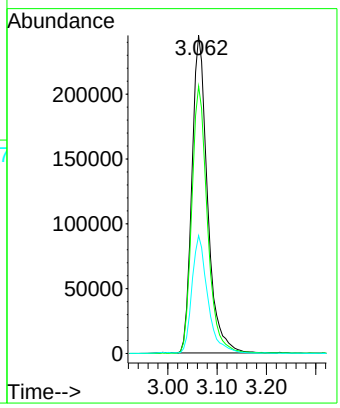
Tgt Ion: 53 Resp: 537482

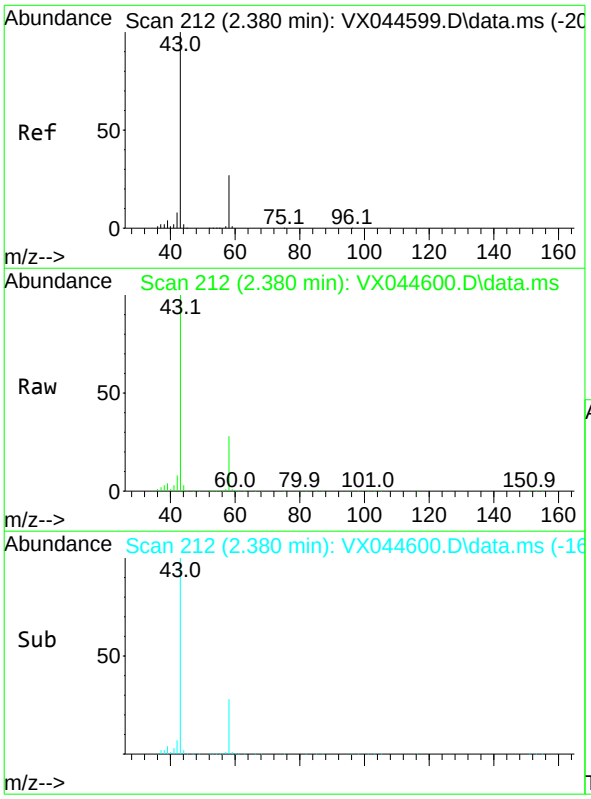
Ion	Ratio	Lower	Upper
53	100		
52	84.2	67.0	100.6
51	37.3	29.4	44.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

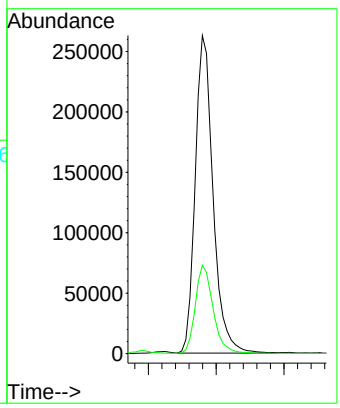


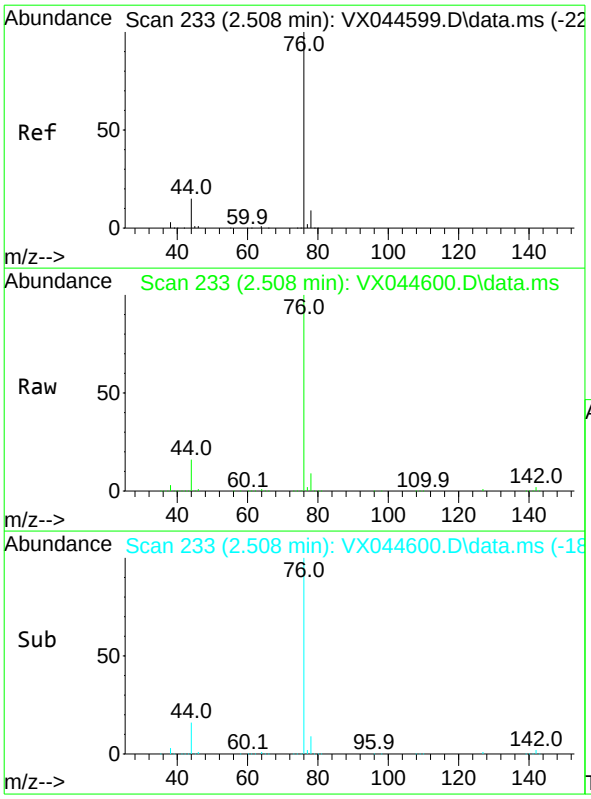


#16
Acetone
Concen: 517.276 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 43 Resp: 479188

Ion	Ratio	Lower	Upper
43	100		
58	27.8	22.0	33.0

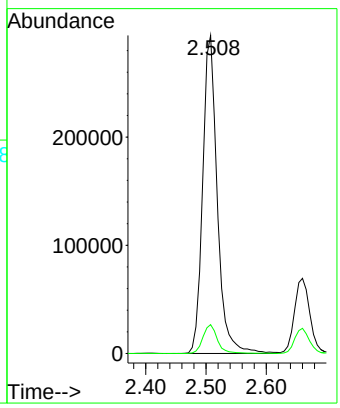




#17
Carbon Disulfide
Concen: 117.230 ug/l
RT: 2.508 min Scan# 23
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 76 Resp: 494332

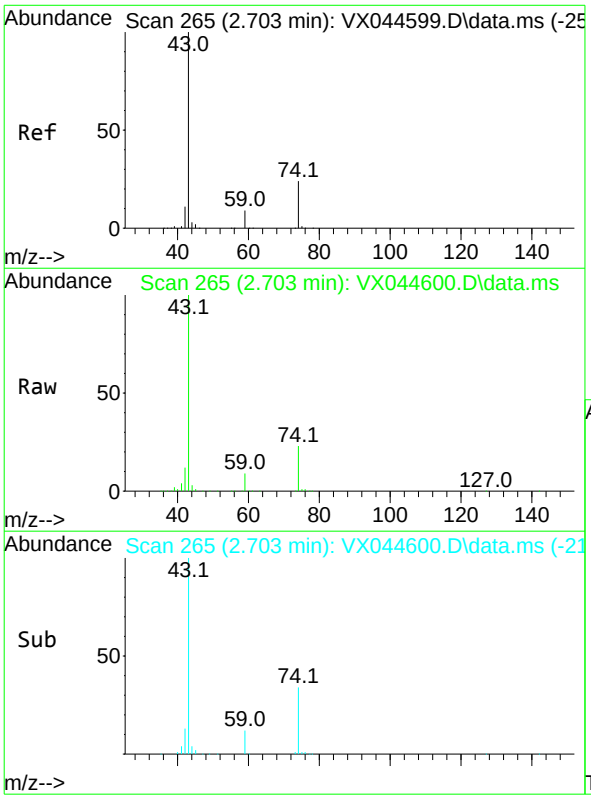
Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.1	10.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

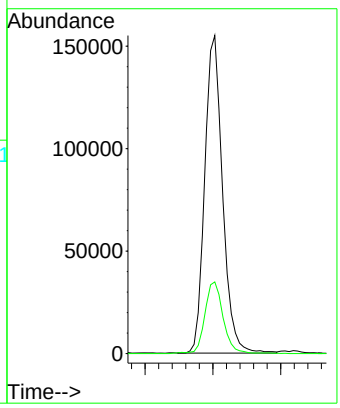
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

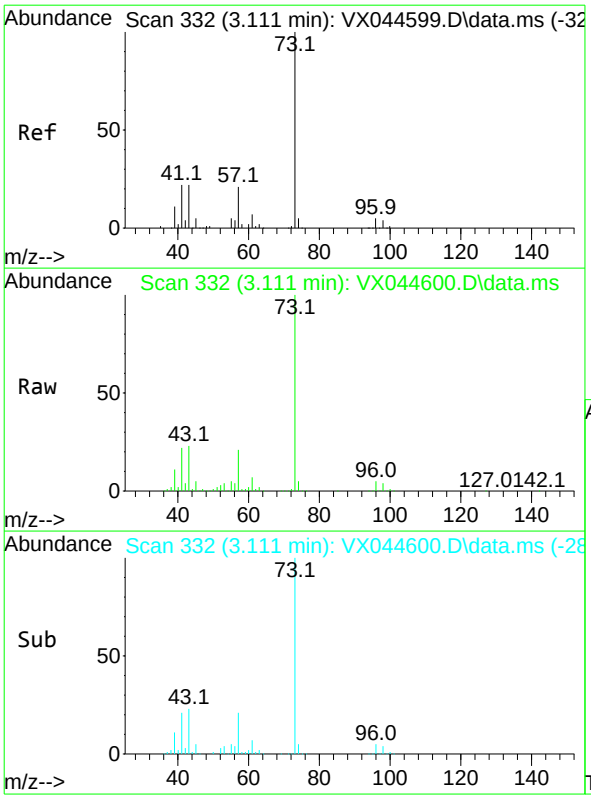


#18
Methyl Acetate
Concen: 103.188 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 43 Resp: 282139

Ion	Ratio	Lower	Upper
43	100		
74	23.1	19.3	28.9

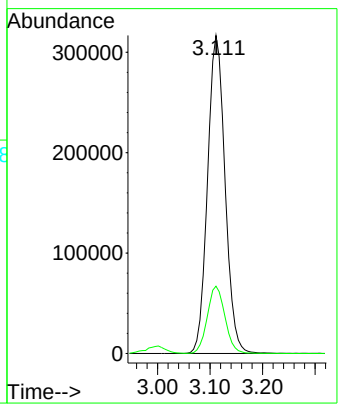




#19
Methyl tert-butyl Ether
Concen: 104.984 ug/l
RT: 3.111 min Scan# 33
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 73 Resp: 733689

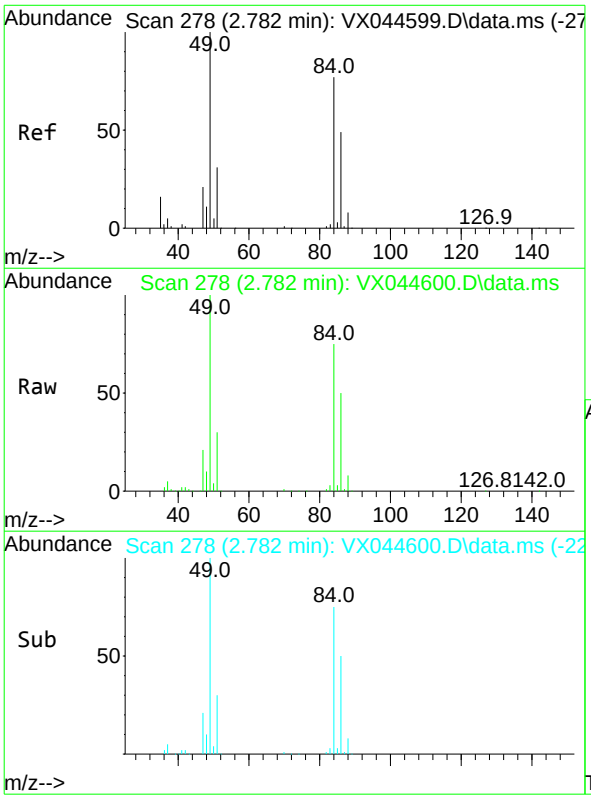
Ion	Ratio	Lower	Upper
73	100		
57	21.1	17.0	25.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

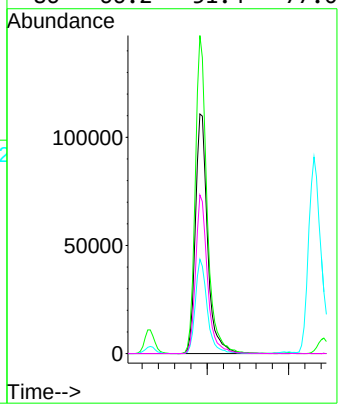
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

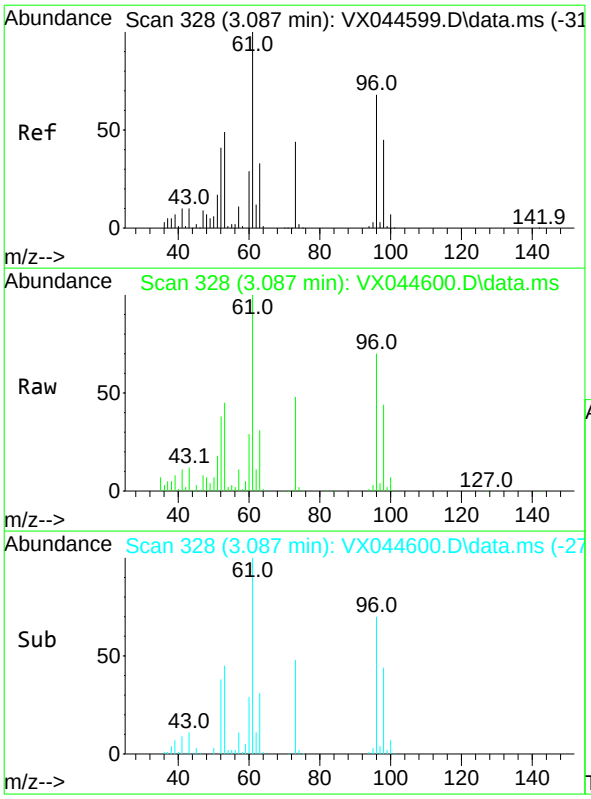


#20
Methylene Chloride
Concen: 97.019 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 84 Resp: 229290

Ion	Ratio	Lower	Upper
84	100		
49	132.7	104.4	156.6
51	39.3	32.0	48.0
86	66.2	51.4	77.0

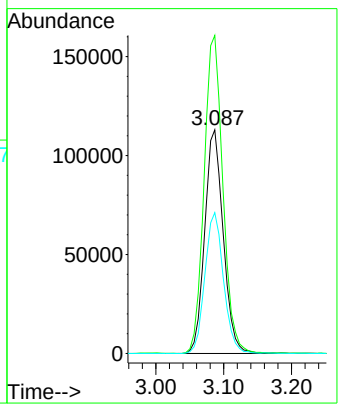




#21
trans-1,2-Dichloroethene
Concen: 102.468 ug/l
RT: 3.087 min Scan# 32
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 96 Resp: 214461

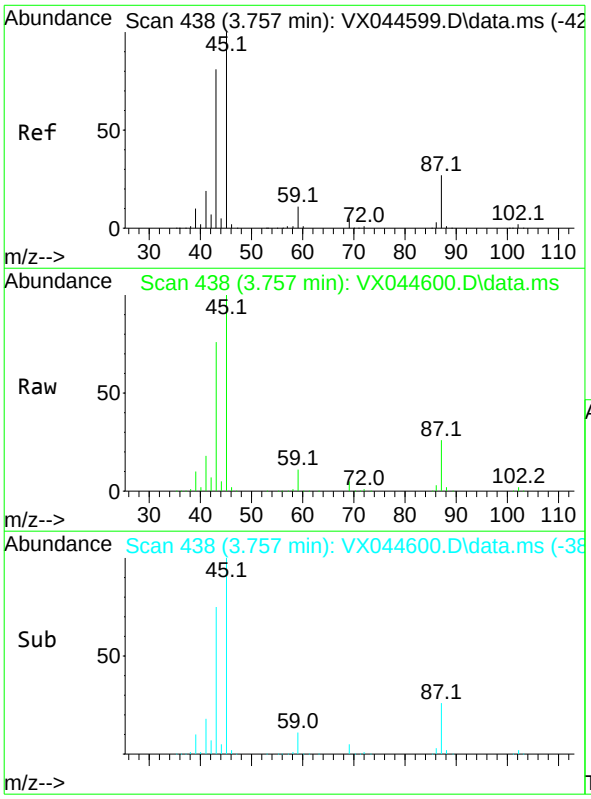
Ion	Ratio	Lower	Upper
96	100		
61	142.2	118.5	177.7
98	63.0	53.4	80.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

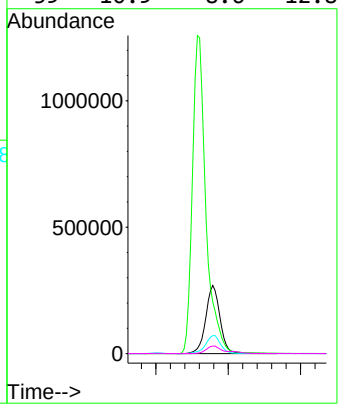
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

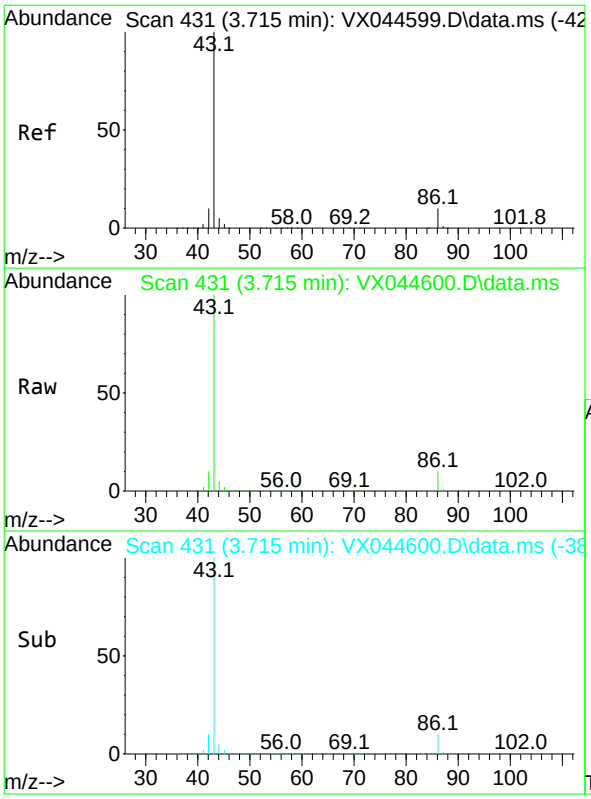


#22
Diisopropyl ether
Concen: 105.701 ug/l
RT: 3.757 min Scan# 438
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 45 Resp: 736946

Ion	Ratio	Lower	Upper
45	100		
43	75.5	64.6	97.0
87	26.2	21.8	32.8
59	10.9	8.6	12.8

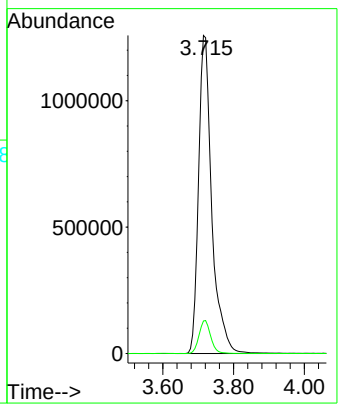




#23
Vinyl Acetate
Concen: 578.791 ug/l
RT: 3.715 min Scan# 43
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 43 Resp: 3263158

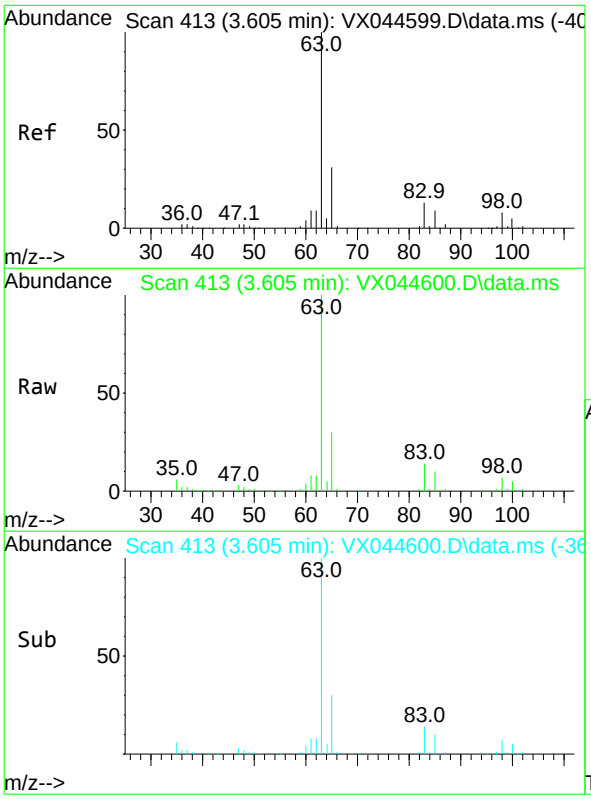
Ion	Ratio	Lower	Upper
43	100		
86	10.2	8.1	12.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

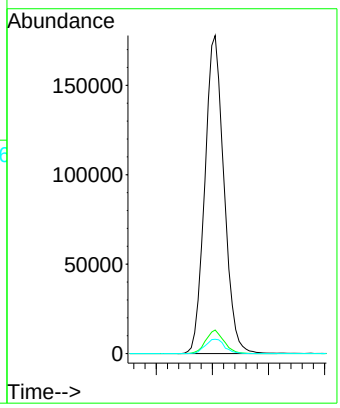
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

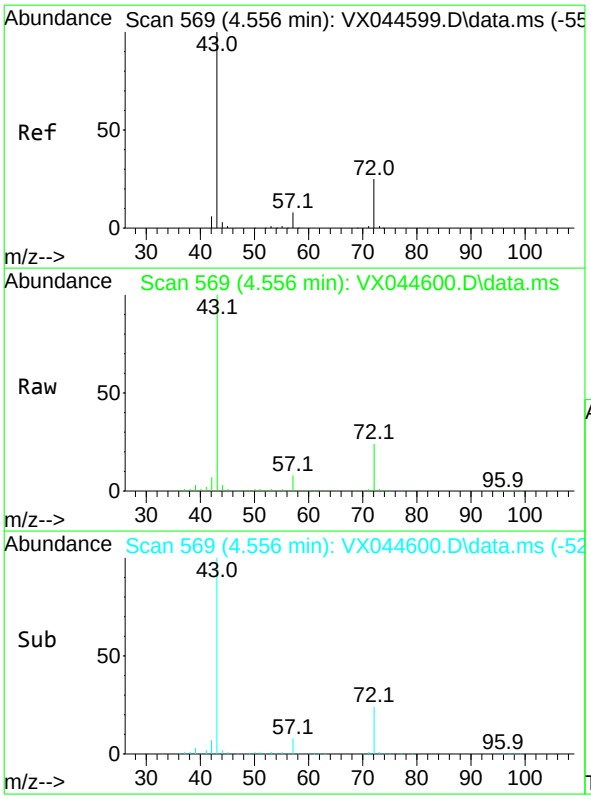


#24
1,1-Dichloroethane
Concen: 103.707 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 63 Resp: 421306

Ion	Ratio	Lower	Upper
63	100		
98	7.4	3.8	11.4
100	4.5	2.4	7.2

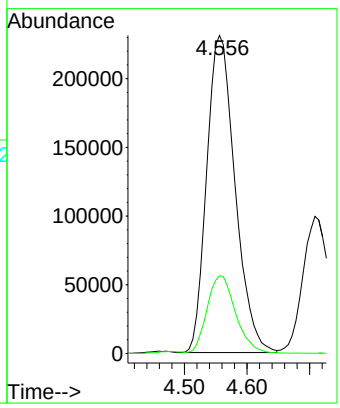




#25
2-Butanone
Concen: 543.775 ug/l
RT: 4.556 min Scan# 56
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 43 Resp: 727090

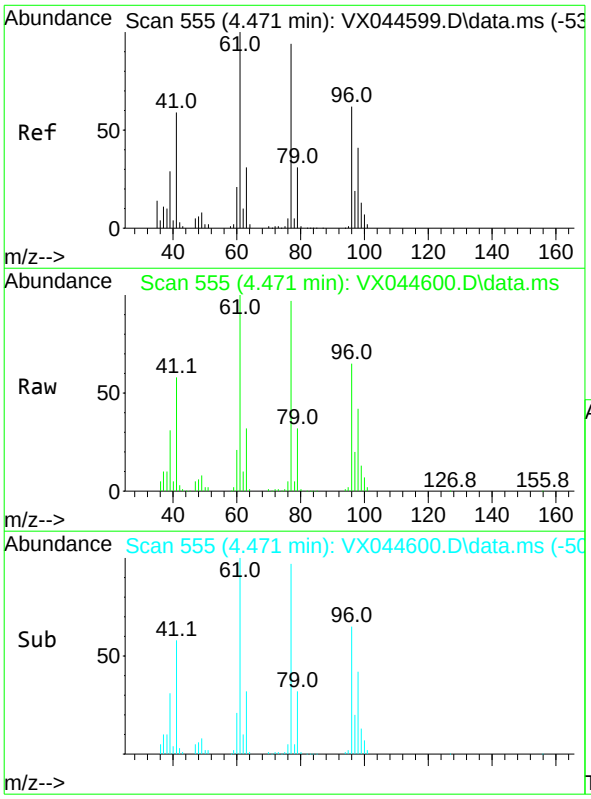
Ion	Ratio	Lower	Upper
43	100		
72	24.3	20.2	30.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

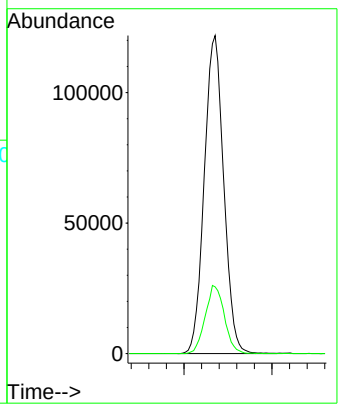
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

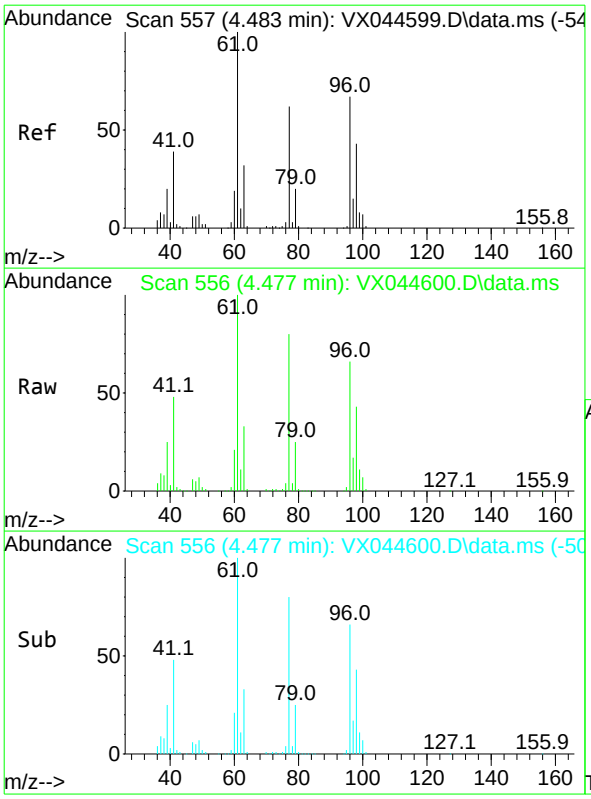


#26
2,2-Dichloropropane
Concen: 106.339 ug/l
RT: 4.471 min Scan# 555
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 77 Resp: 373500

Ion	Ratio	Lower	Upper
77	100		
97	21.1	10.7	32.1

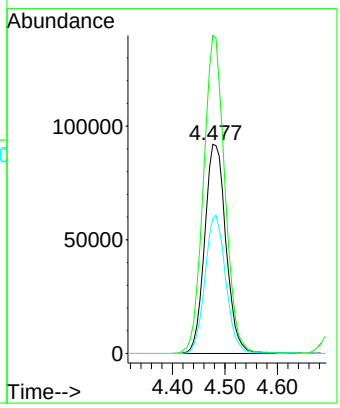




#27
cis-1,2-Dichloroethene
Concen: 101.596 ug/l
RT: 4.477 min Scan# 55
Delta R.T. -0.006 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 96 Resp: 259280

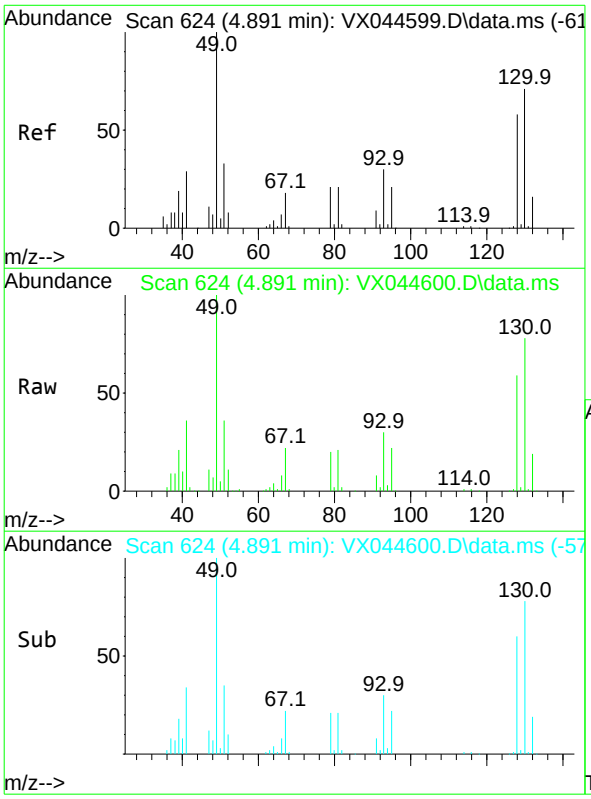
Ion	Ratio	Lower	Upper
96	100		
61	153.0	0.0	302.8
98	64.6	0.0	130.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

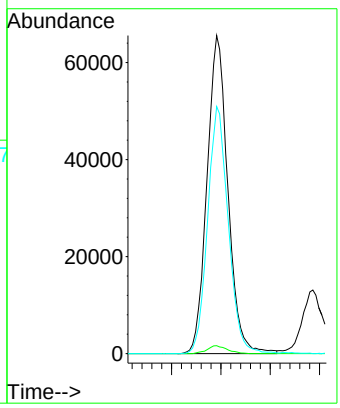
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

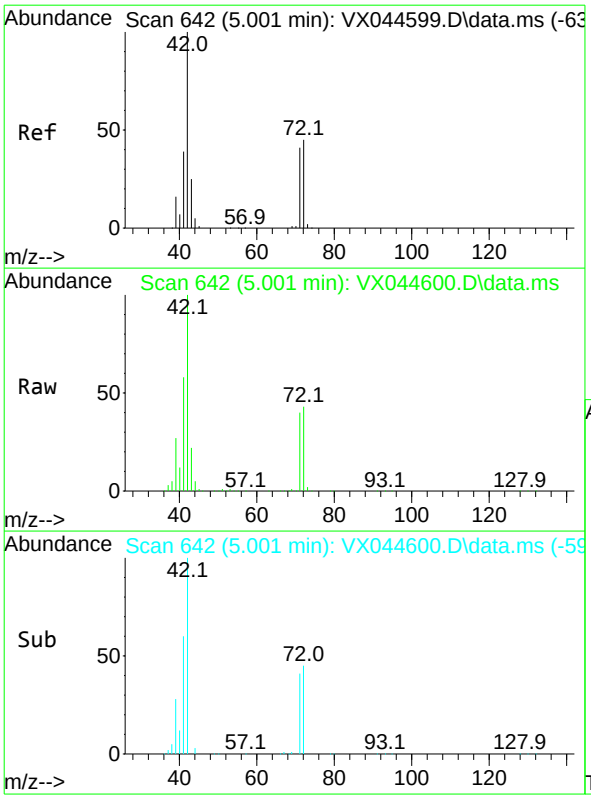


#28
Bromochloromethane
Concen: 101.838 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 49 Resp: 192580

Ion	Ratio	Lower	Upper
49	100		
129	2.4	0.0	4.2
130	76.8	58.8	88.2

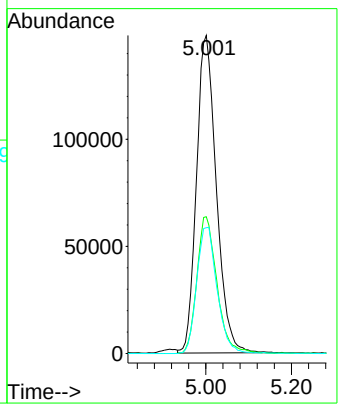




#29
Tetrahydrofuran
Concen: 521.636 ug/l
RT: 5.001 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 42 Resp: 477636

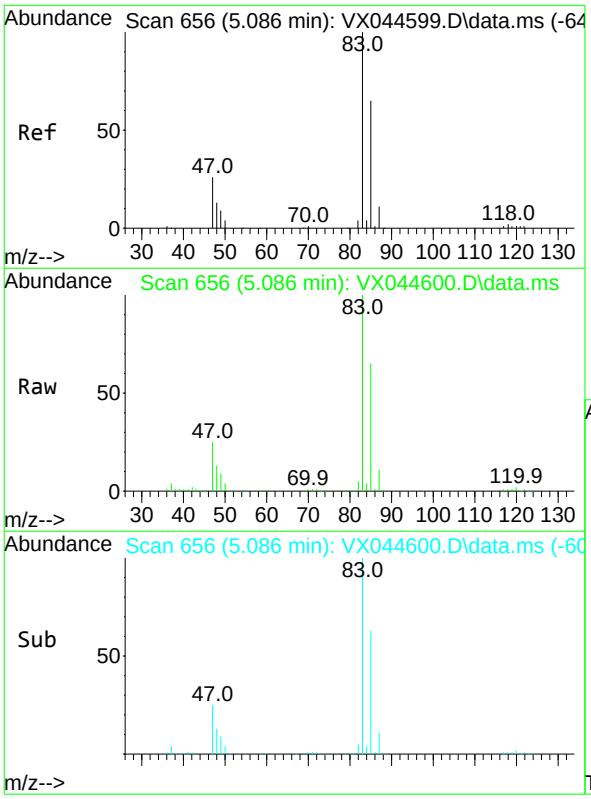
Ion	Ratio	Lower	Upper
42	100		
72	43.6	36.1	54.1
71	40.7	33.0	49.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

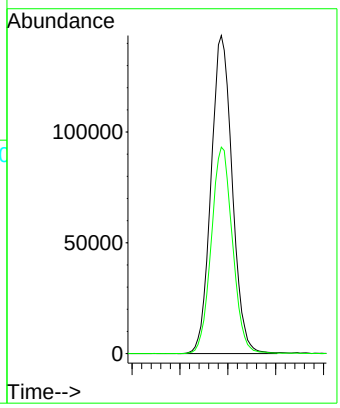
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

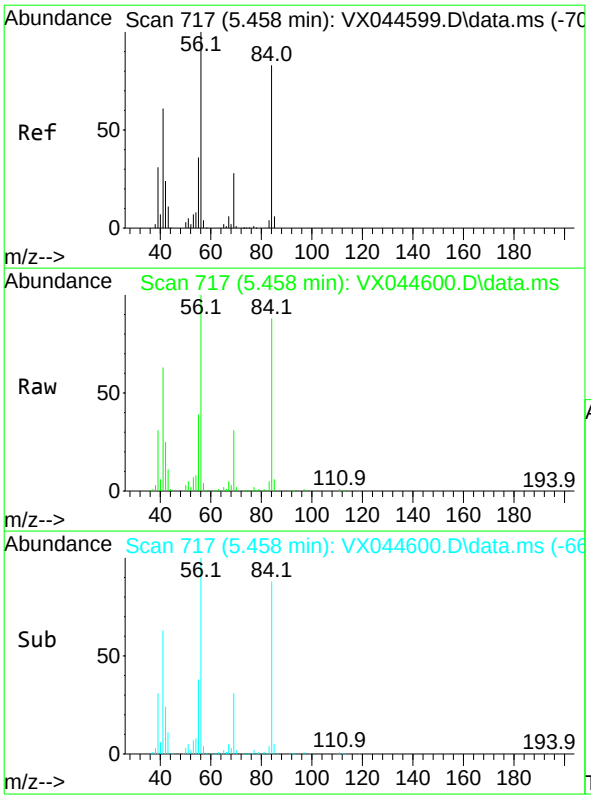


#30
Chloroform
Concen: 100.708 ug/l
RT: 5.086 min Scan# 656
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 83 Resp: 441057

Ion	Ratio	Lower	Upper
83	100		
85	64.9	52.3	78.5





#31
Cyclohexane
Concen: 102.984 ug/l
RT: 5.458 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

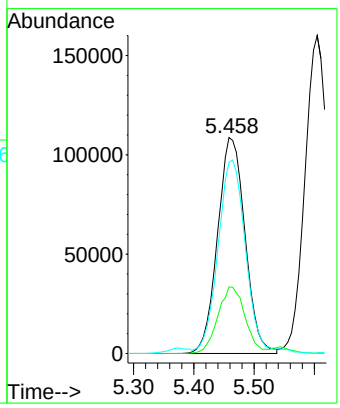
Tgt Ion: 56 Resp: 343501

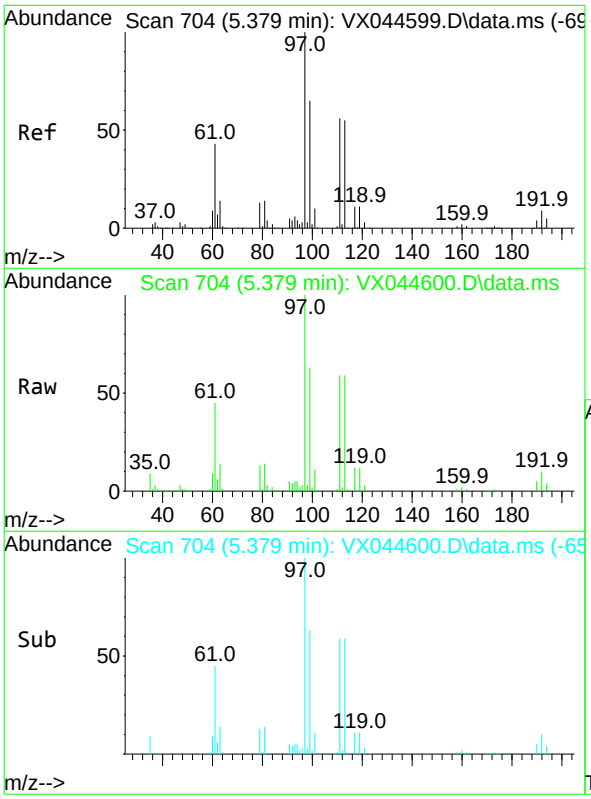
Ion	Ratio	Lower	Upper
56	100		
69	30.9	22.2	33.4
84	86.3	66.6	100.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

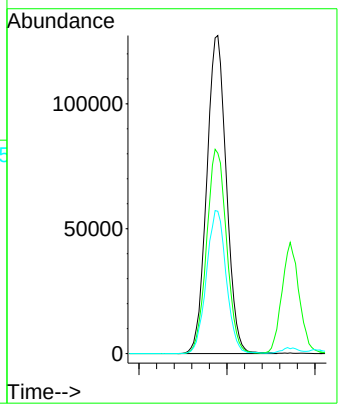


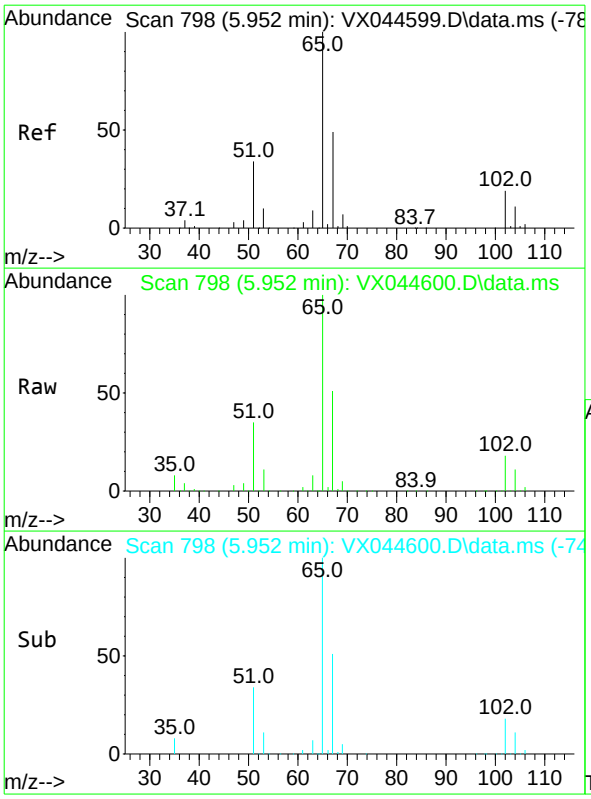


#32
1,1,1-Trichloroethane
Concen: 107.215 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 97 Resp: 395161

Ion	Ratio	Lower	Upper
97	100		
99	65.0	52.1	78.1
61	45.5	36.8	55.2

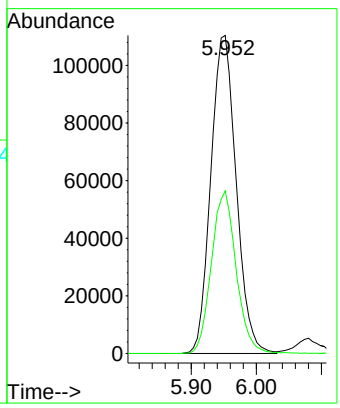




#33
1,2-Dichloroethane-d4
Concen: 101.563 ug/l
RT: 5.952 min Scan# 79
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 65 Resp: 298512

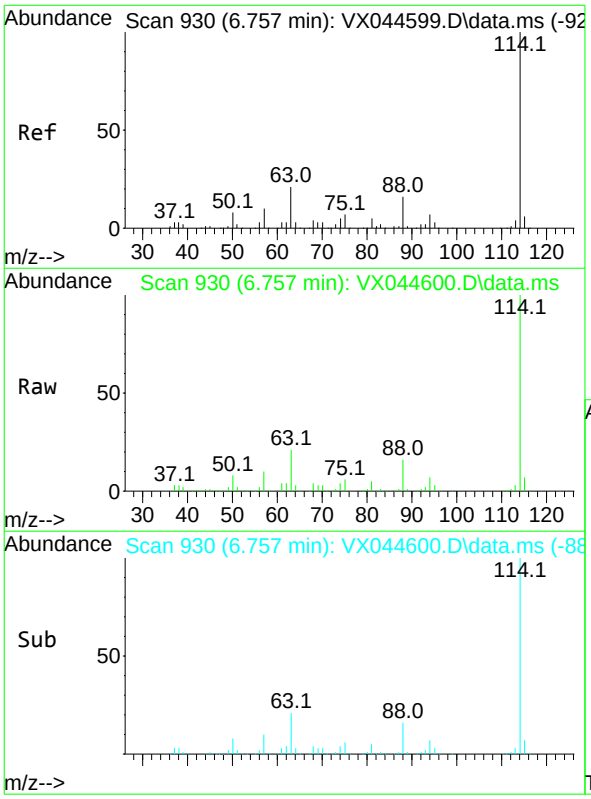
Ion	Ratio	Lower	Upper
65	100		
67	49.9	0.0	99.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

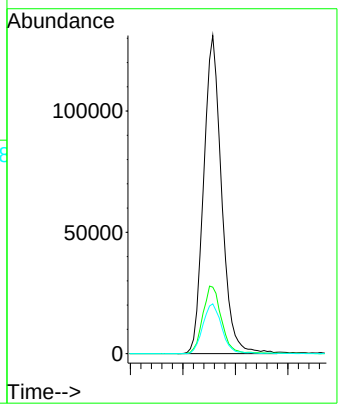
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

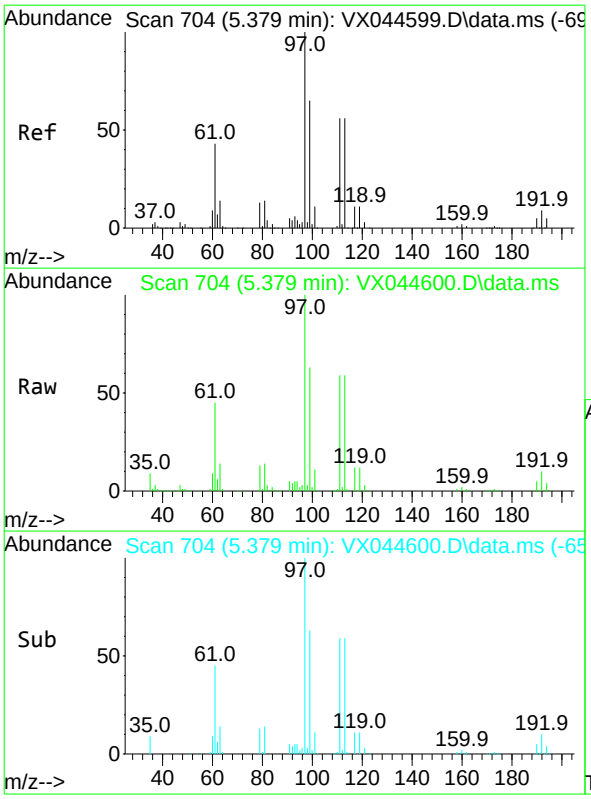


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion:114 Resp: 310906

Ion	Ratio	Lower	Upper
114	100		
63	20.9	0.0	42.6
88	15.6	0.0	32.6

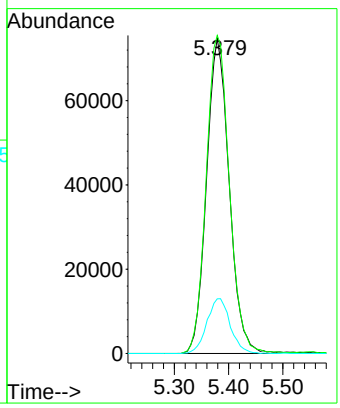




#35
Dibromofluoromethane
Concen: 101.626 ug/l
RT: 5.379 min Scan# 70
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion:113 Resp: 216660

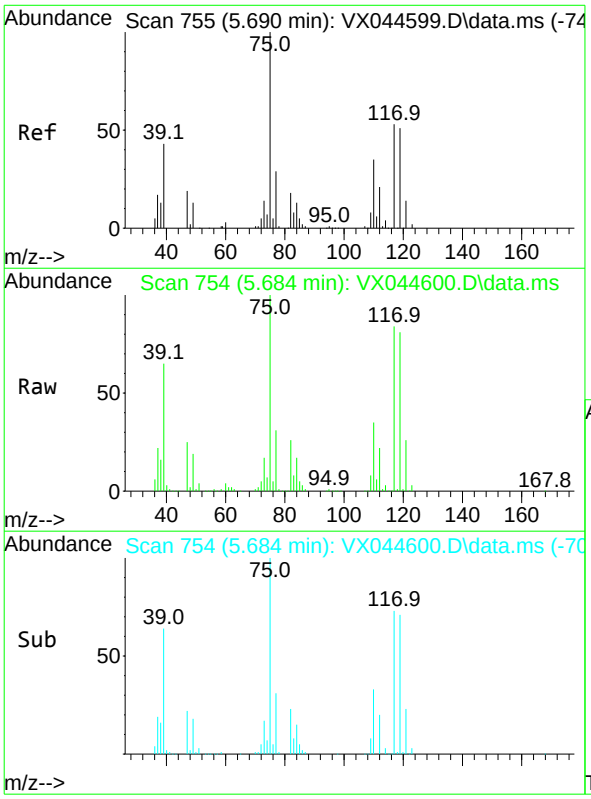
Ion	Ratio	Lower	Upper
113	100		
111	103.4	83.3	124.9
192	18.0	14.3	21.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

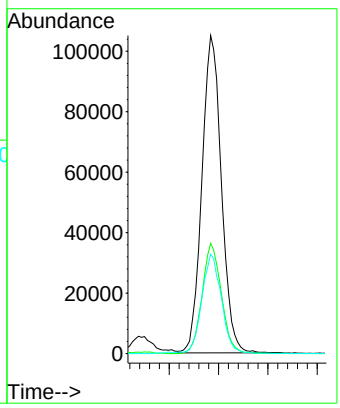
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

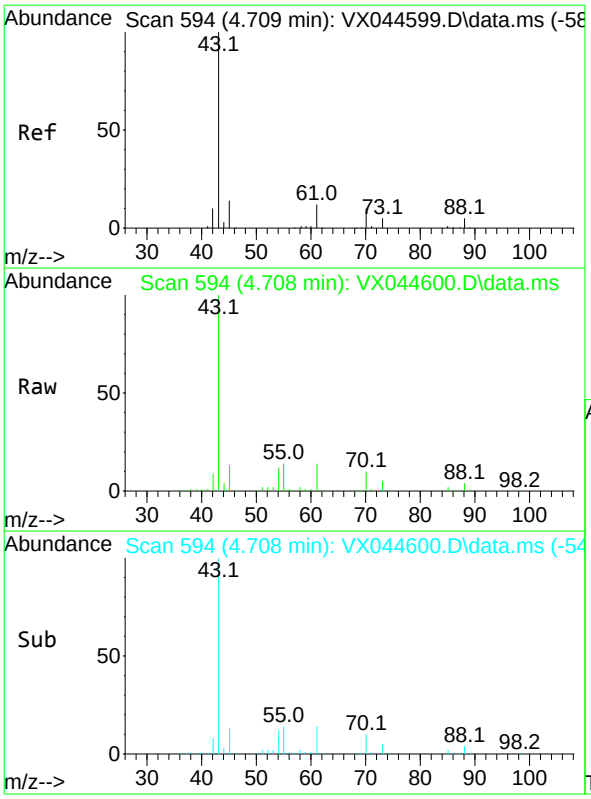


#36
1,1-Dichloropropene
Concen: 104.631 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 75 Resp: 288443

Ion	Ratio	Lower	Upper
75	100		
110	34.4	17.3	51.9
77	31.1	24.7	37.1

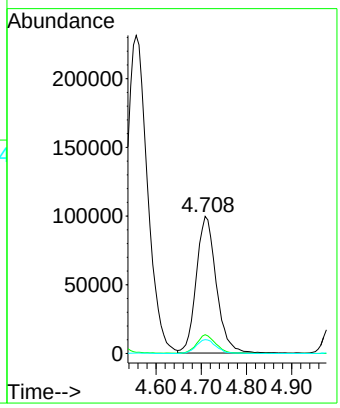




#37
Ethyl Acetate
Concen: 108.495 ug/l
RT: 4.708 min Scan# 59
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 43 Resp: 305727

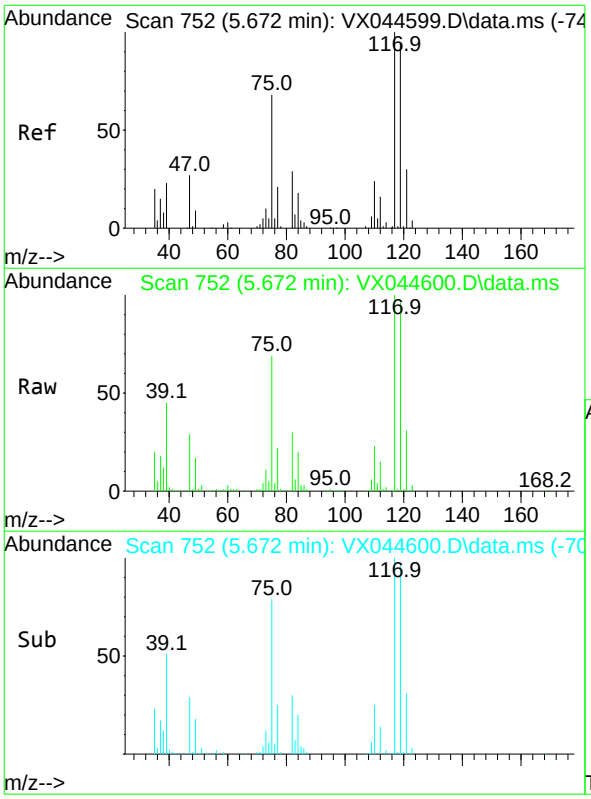
Ion	Ratio	Lower	Upper
43	100		
61	12.9	9.9	14.9
70	10.1	8.0	12.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

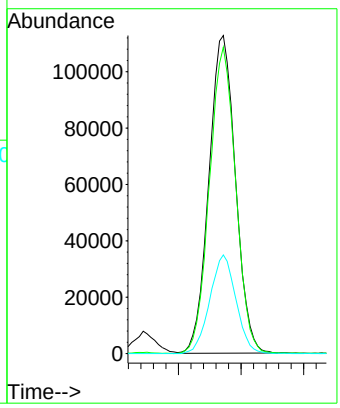
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

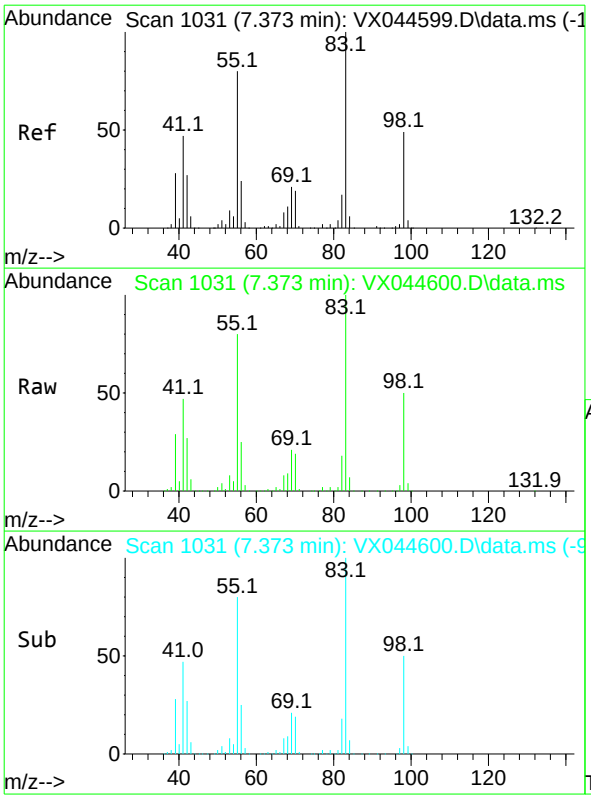


#38
Carbon Tetrachloride
Concen: 108.573 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion:117 Resp: 332090

Ion	Ratio	Lower	Upper
117	100		
119	96.4	74.5	111.7
121	31.1	24.1	36.1

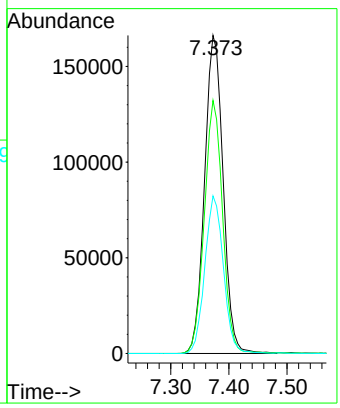




#39
Methylcyclohexane
Concen: 104.721 ug/l
RT: 7.373 min Scan# 10
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 83 Resp: 368363

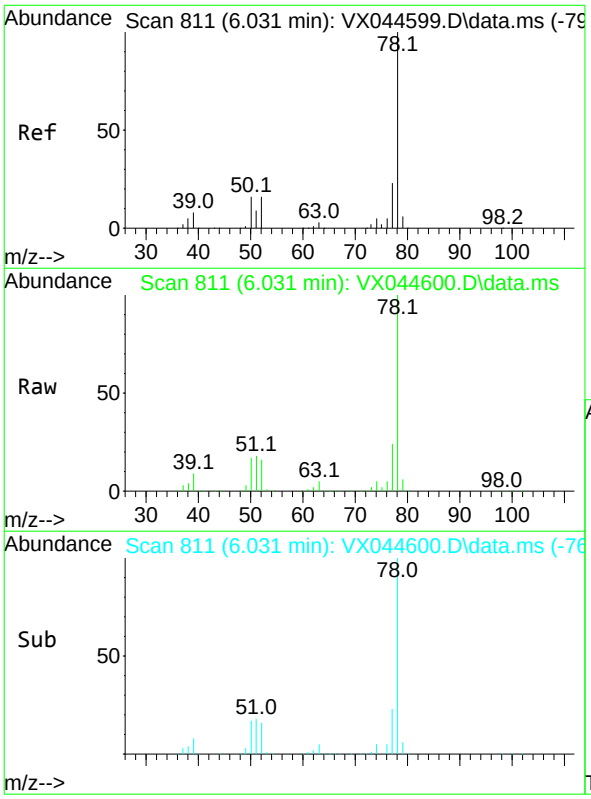
Ion	Ratio	Lower	Upper
83	100		
55	79.6	64.1	96.1
98	49.5	38.9	58.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

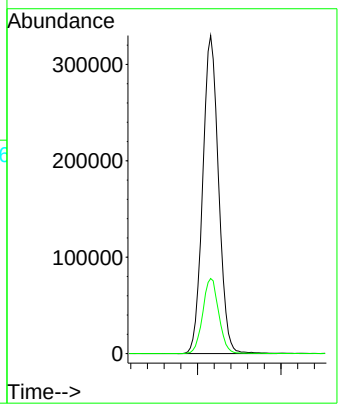
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

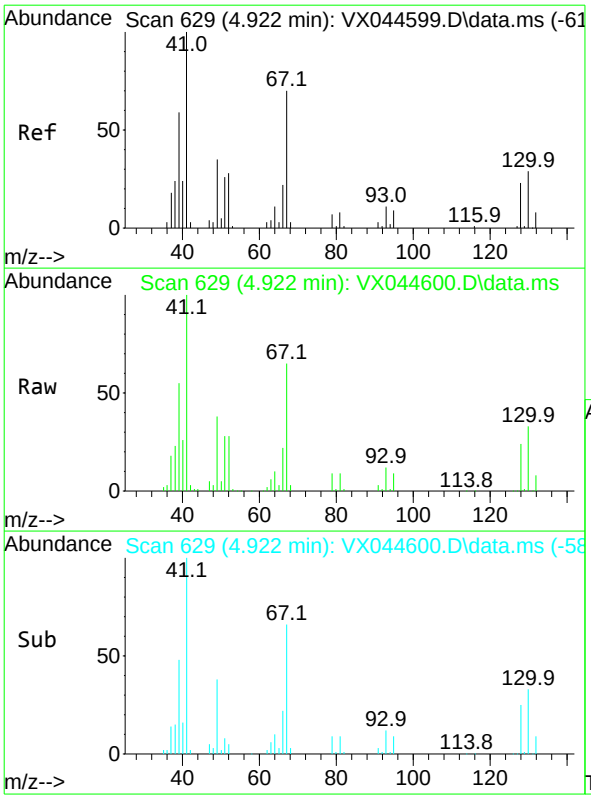


#40
Benzene
Concen: 100.244 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 78 Resp: 870111

Ion	Ratio	Lower	Upper
78	100		
77	23.6	18.8	28.2

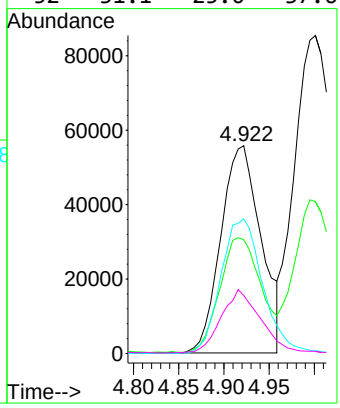




#41
Methacrylonitrile
Concen: 113.877 ug/l
RT: 4.922 min Scan# 62
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 41 Resp: 172379

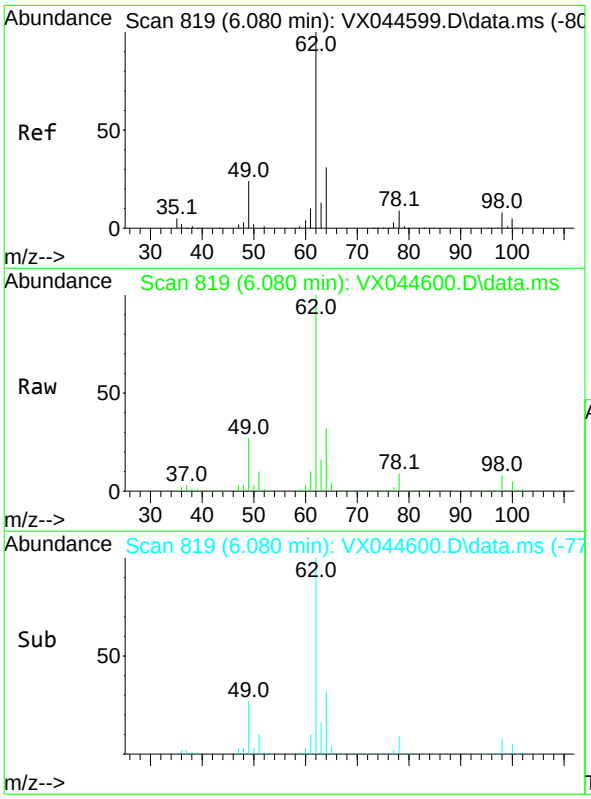
Ion	Ratio	Lower	Upper
41	100		
39	57.1	47.0	70.4
67	68.0	57.4	86.2
52	31.1	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

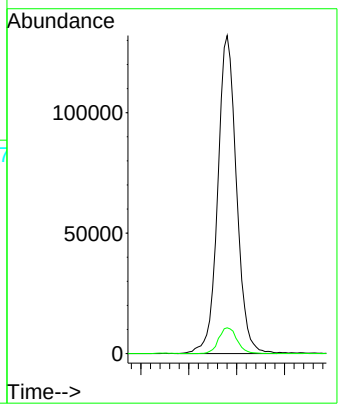
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

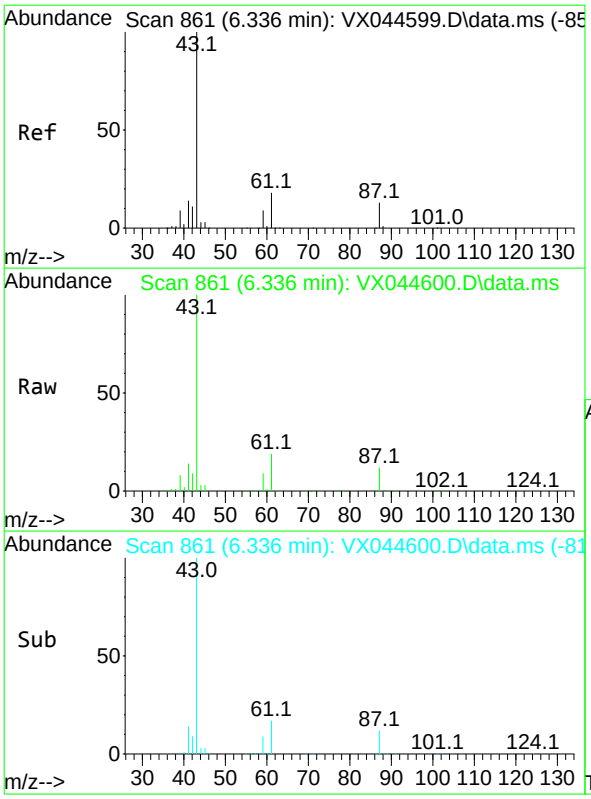


#42
1,2-Dichloroethane
Concen: 105.631 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 62 Resp: 358563

Ion	Ratio	Lower	Upper
62	100		
98	8.0	0.0	15.8

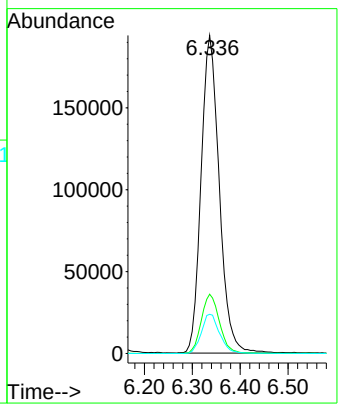




#43
Isopropyl Acetate
Concen: 110.008 ug/l
RT: 6.336 min Scan# 86
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 43 Resp: 511813

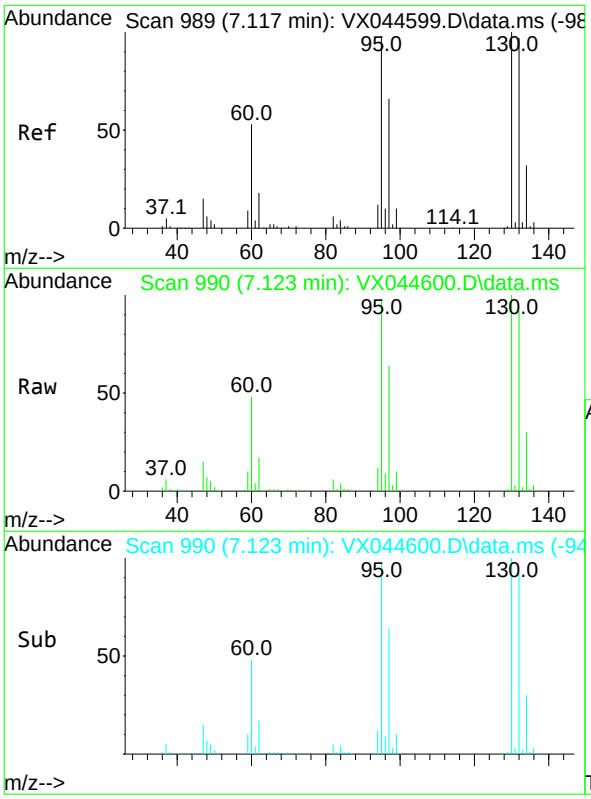
Ion	Ratio	Lower	Upper
43	100		
61	18.6	14.5	21.7
87	12.4	10.1	15.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

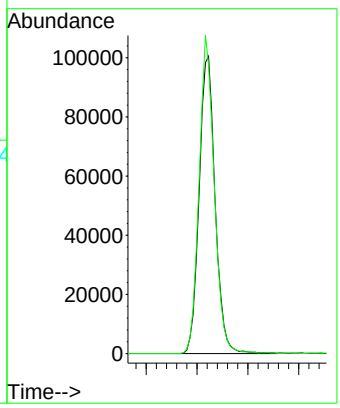
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

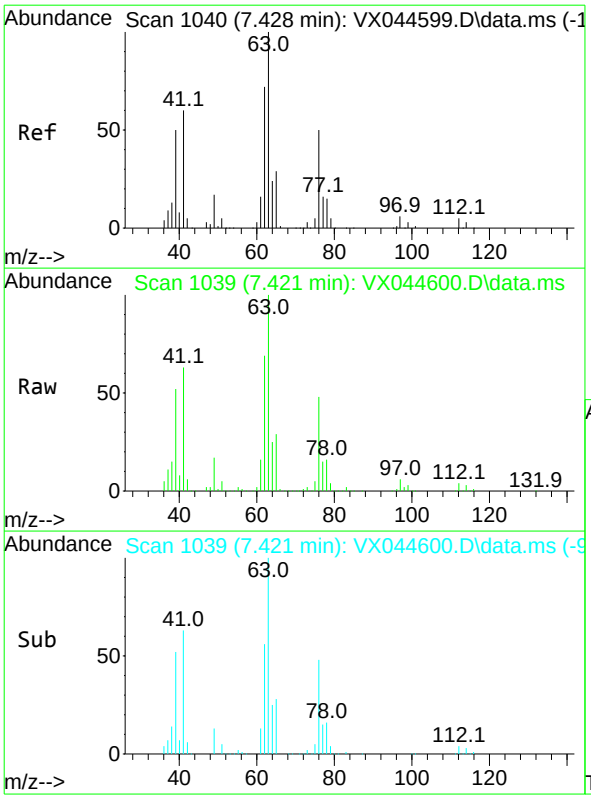


#44
Trichloroethene
Concen: 98.990 ug/l
RT: 7.123 min Scan# 990
Delta R.T. 0.006 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion:130 Resp: 219638

Ion	Ratio	Lower	Upper
130	100		
95	97.1	0.0	195.6

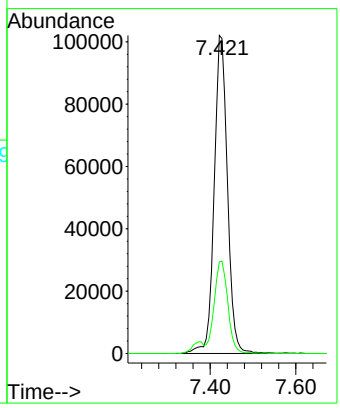




#45
1,2-Dichloropropane
Concen: 103.636 ug/l
RT: 7.421 min Scan# 10
Delta R.T. -0.006 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 63 Resp: 219320

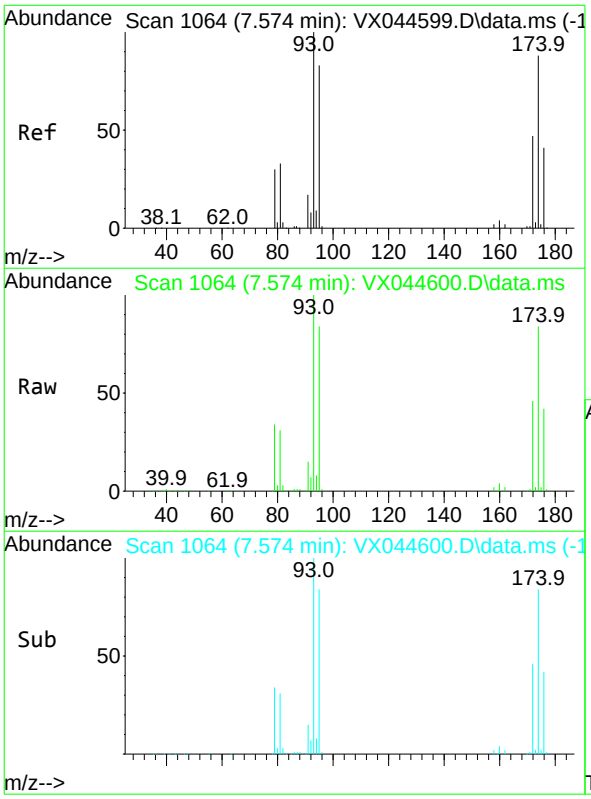
Ion	Ratio	Lower	Upper
63	100		
65	28.8	23.0	34.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

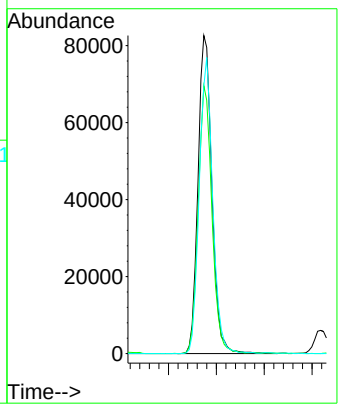
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

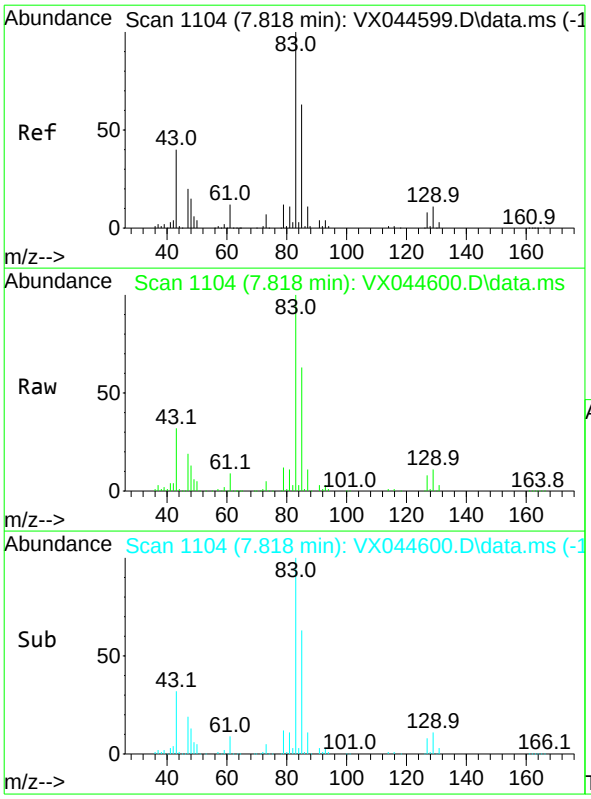


#46
Dibromomethane
Concen: 101.452 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 93 Resp: 166973

Ion	Ratio	Lower	Upper
93	100		
95	82.9	65.8	98.6
174	90.4	73.4	110.0

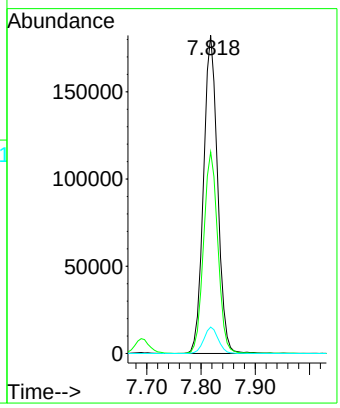




#47
Bromodichloromethane
Concen: 109.962 ug/l
RT: 7.818 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 83 Resp: 329340

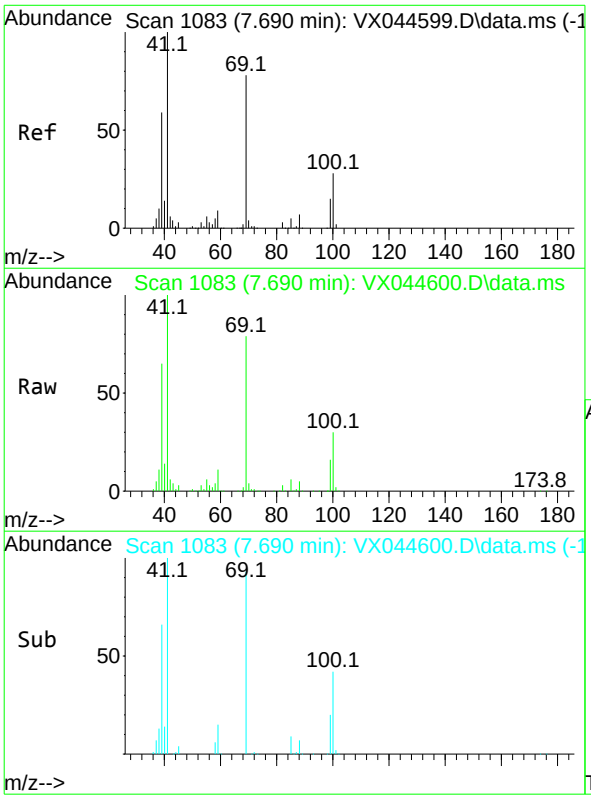
Ion	Ratio	Lower	Upper
83	100		
85	63.3	50.4	75.6
127	8.3	6.2	9.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

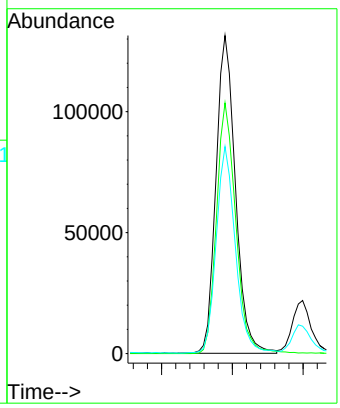
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

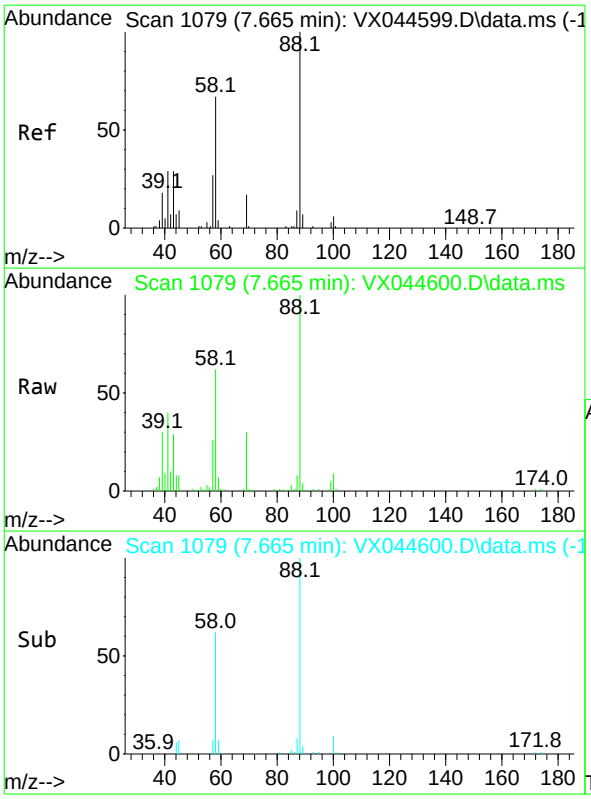


#48
Methyl methacrylate
Concen: 113.277 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 41 Resp: 251364

Ion	Ratio	Lower	Upper
41	100		
69	78.5	62.9	94.3
39	63.8	48.9	73.3

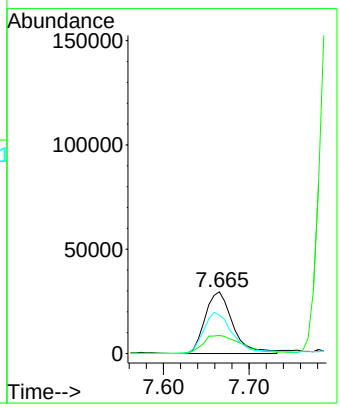




#49
1,4-Dioxane
Concen: 2030.048 ug/l
RT: 7.665 min Scan# 10
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 88 Resp: 66197

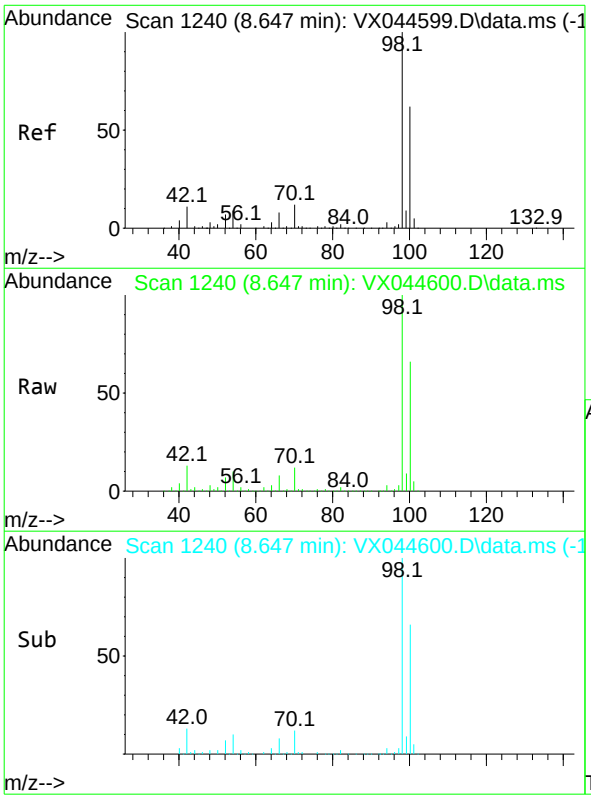
Ion	Ratio	Lower	Upper
88	100		
43	40.1	29.5	44.3
58	72.1	56.3	84.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

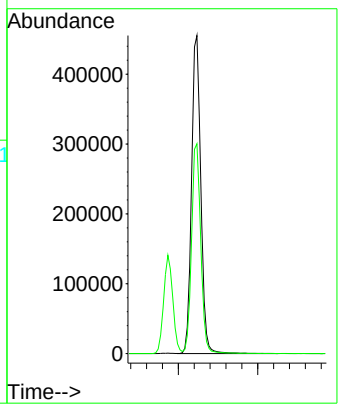
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

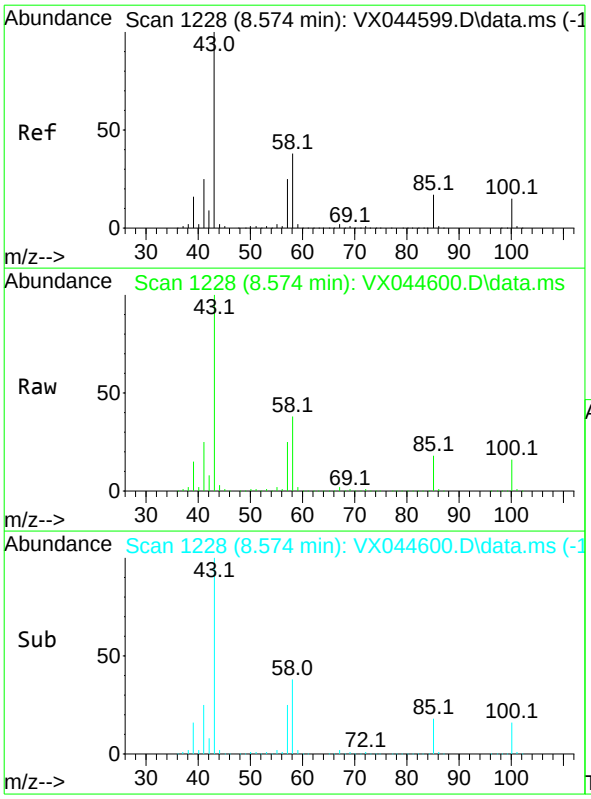


#50
Toluene-d8
Concen: 101.194 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 98 Resp: 736918

Ion	Ratio	Lower	Upper
98	100		
100	65.4	52.5	78.7

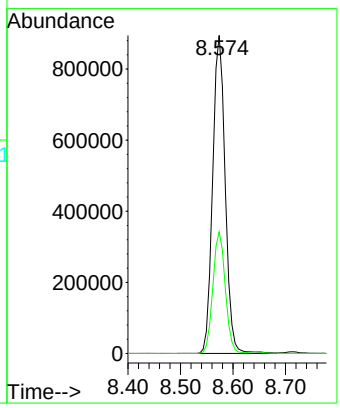




#51
4-Methyl-2-Pentanone
Concen: 545.612 ug/l
RT: 8.574 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 43 Resp: 1483866

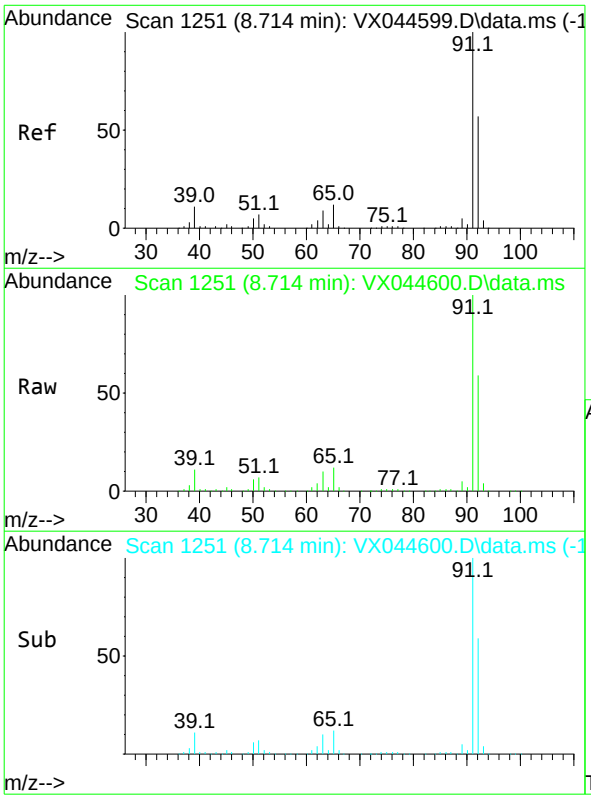
Ion	Ratio	Lower	Upper
43	100		
58	37.8	30.0	45.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

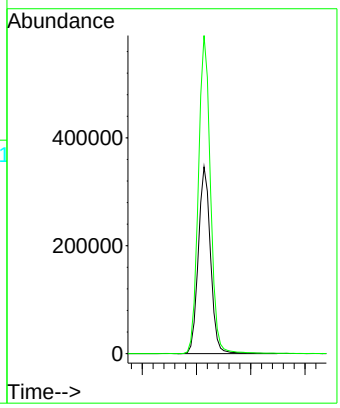
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

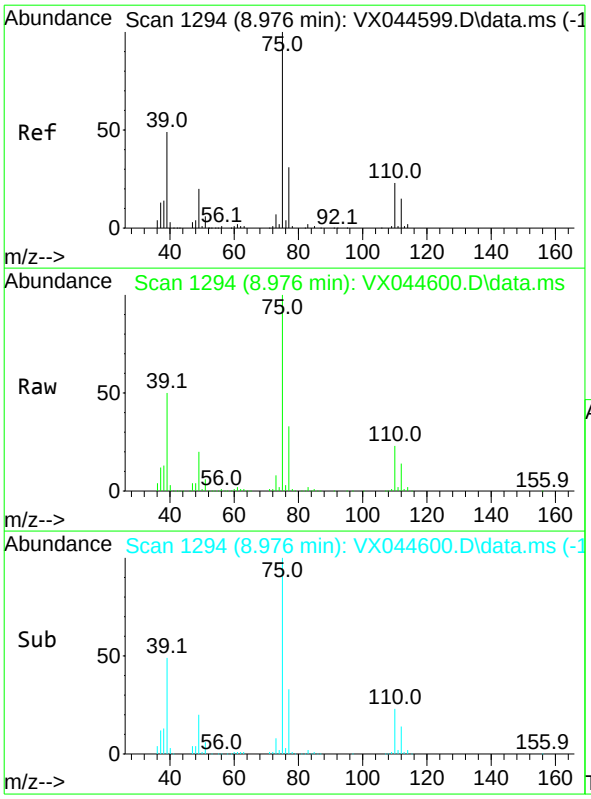


#52
Toluene
Concen: 102.712 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 92 Resp: 537927

Ion	Ratio	Lower	Upper
92	100		
91	169.3	140.6	210.8

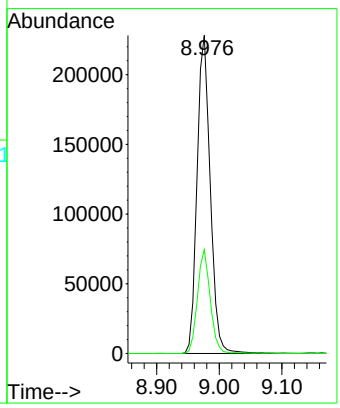




#53
t-1,3-Dichloropropene
Concen: 116.711 ug/l
RT: 8.976 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 75 Resp: 334122

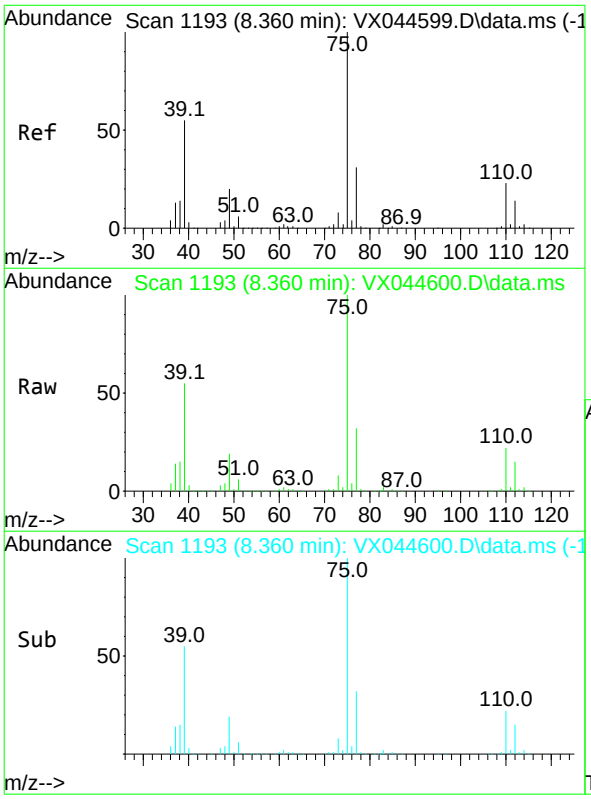
Ion	Ratio	Lower	Upper
75	100		
77	32.6	24.8	37.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

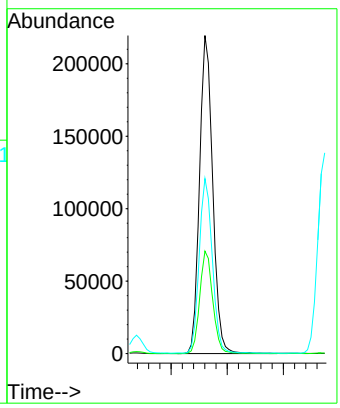
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

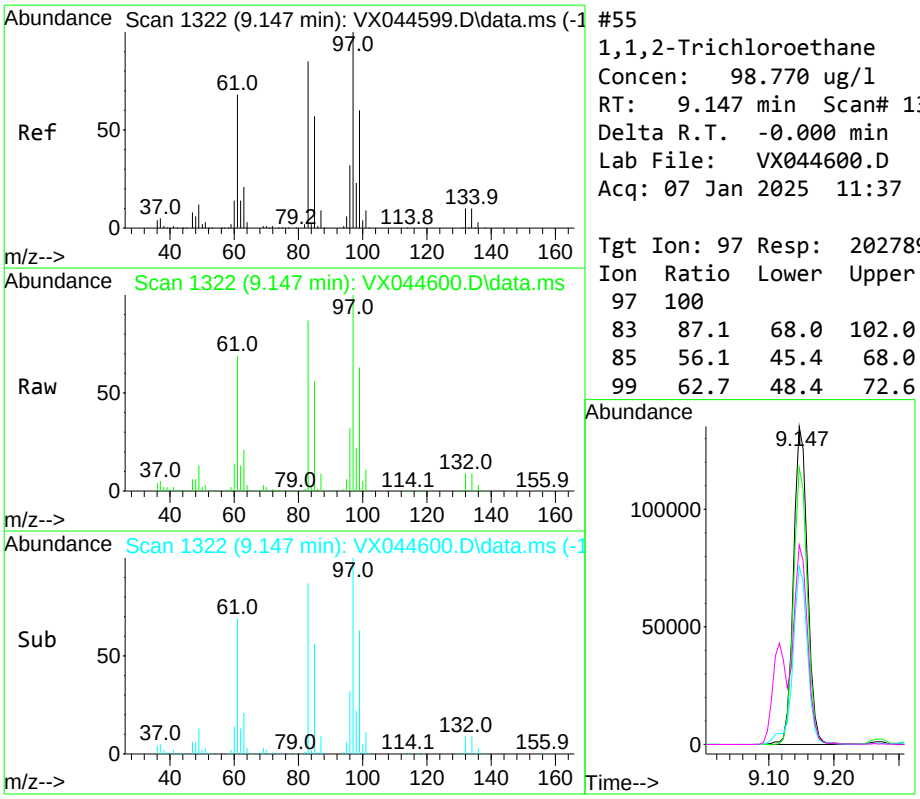


#54
cis-1,3-Dichloropropene
Concen: 111.049 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 75 Resp: 357294

Ion	Ratio	Lower	Upper
75	100		
77	32.2	24.5	36.7
39	54.9	44.3	66.5





#55
1,1,2-Trichloroethane
Concen: 98.770 ug/l
RT: 9.147 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

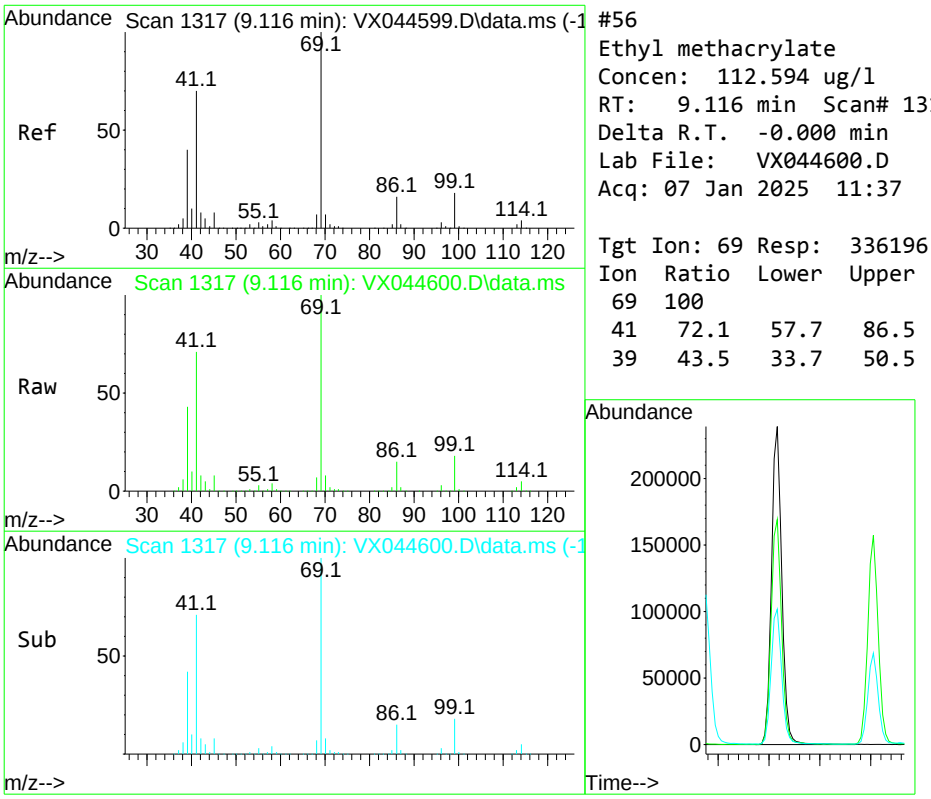
Tgt Ion: 97 Resp: 202789

Ion	Ratio	Lower	Upper
97	100		
83	87.1	68.0	102.0
85	56.1	45.4	68.0
99	62.7	48.4	72.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

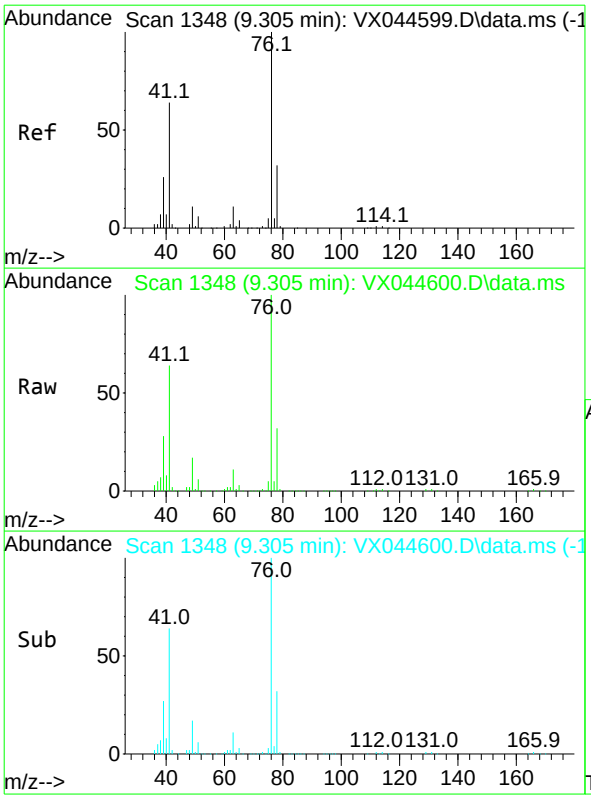
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025



#56
Ethyl methacrylate
Concen: 112.594 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 69 Resp: 336196

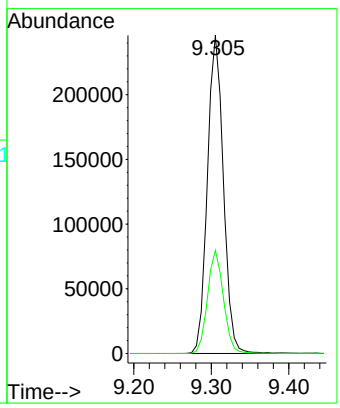
Ion	Ratio	Lower	Upper
69	100		
41	72.1	57.7	86.5
39	43.5	33.7	50.5



#57
1,3-Dichloropropane
Concen: 102.044 ug/l
RT: 9.305 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 76 Resp: 351820

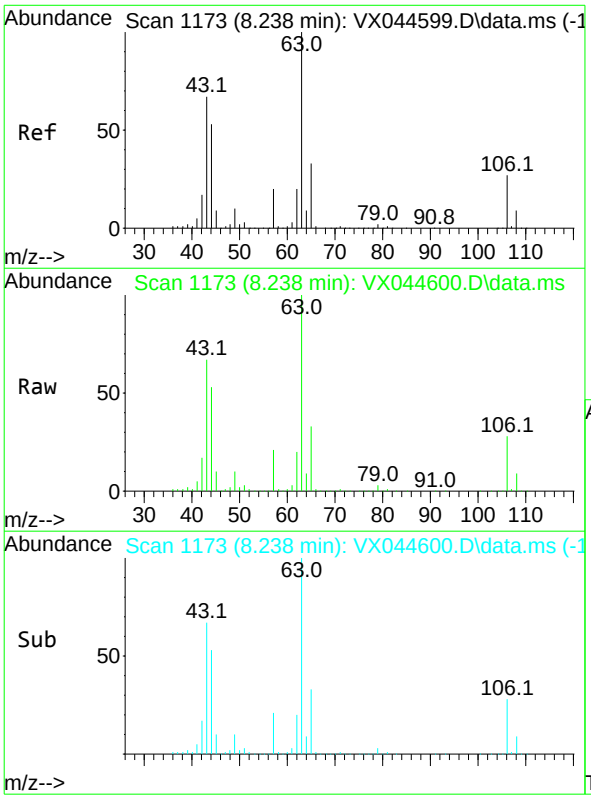
Ion	Ratio	Lower	Upper
76	100		
78	32.3	25.8	38.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

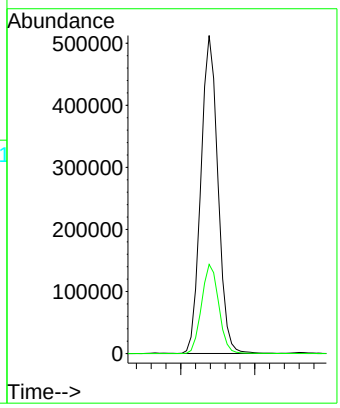
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

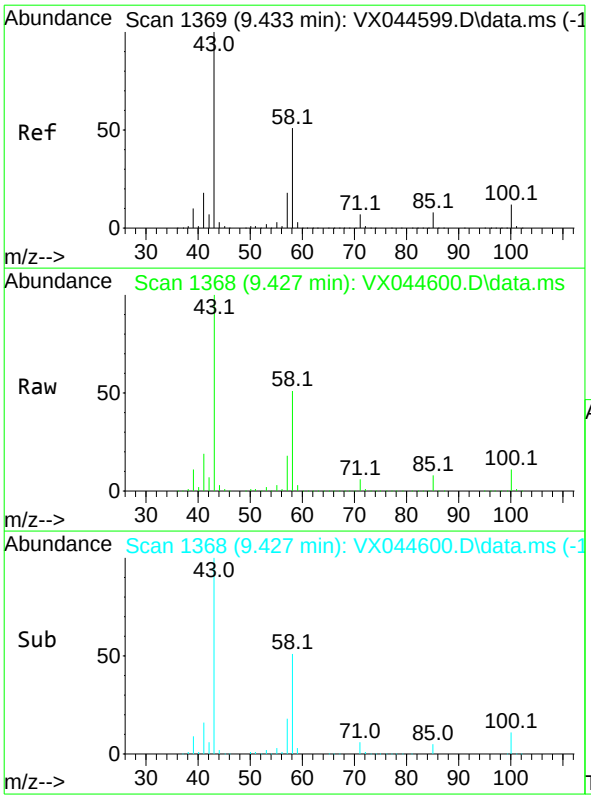


#58
2-Chloroethyl Vinyl ether
Concen: 554.192 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 63 Resp: 820346

Ion	Ratio	Lower	Upper
63	100		
106	28.3	22.4	33.6

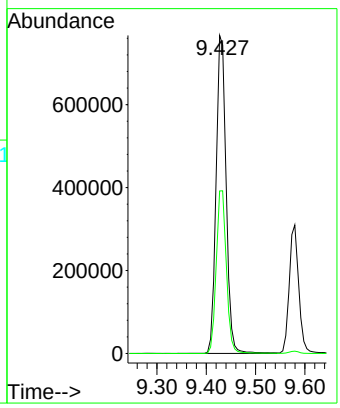




#59
2-Hexanone
Concen: 562.682 ug/l
RT: 9.427 min Scan# 13
Delta R.T. -0.006 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 43 Resp: 1082252

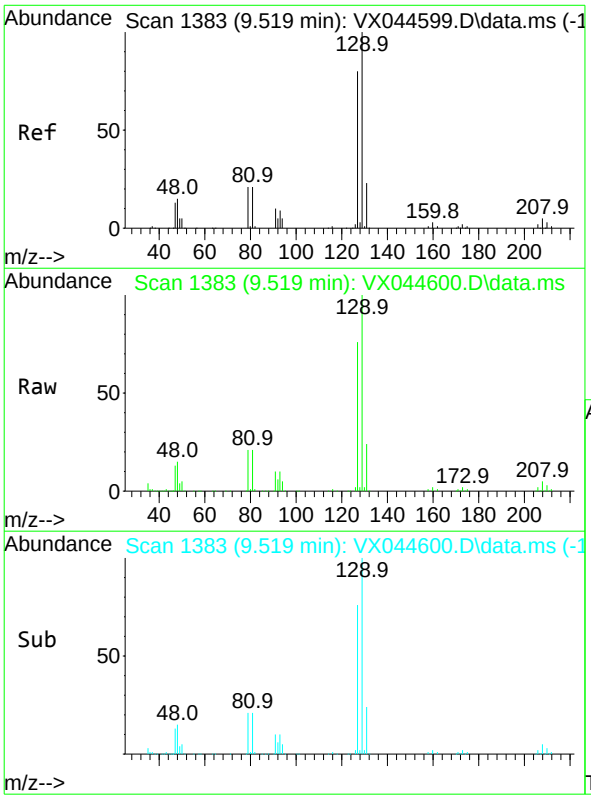
Ion	Ratio	Lower	Upper
43	100		
58	51.9	25.4	76.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

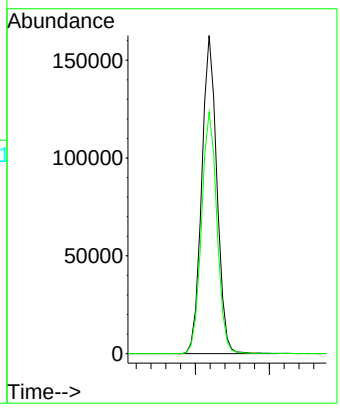
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

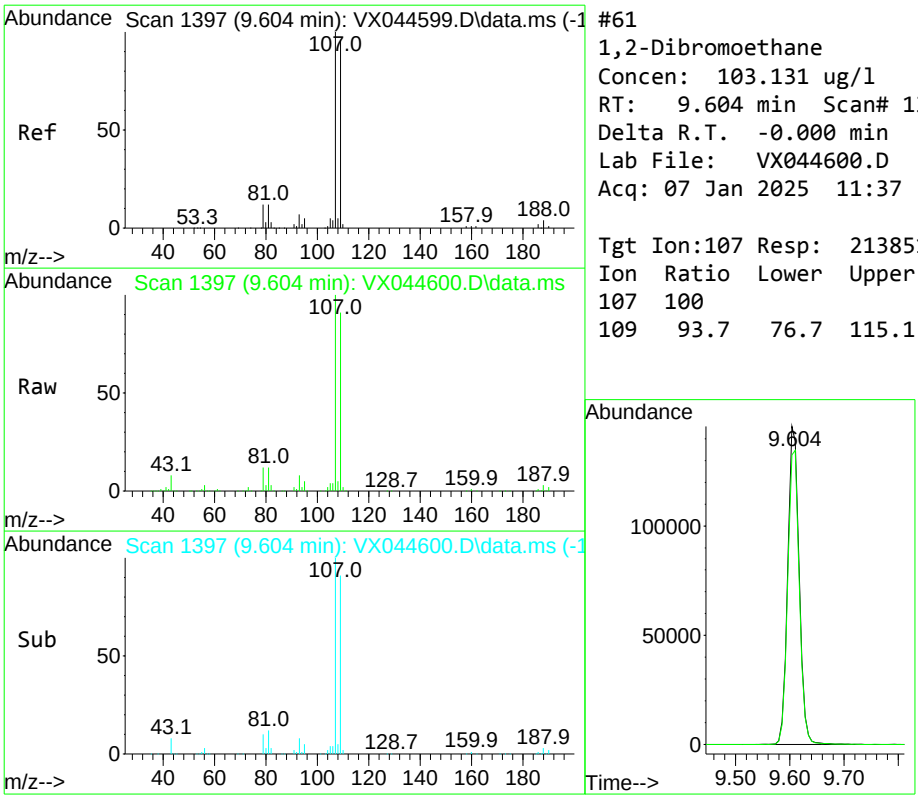


#60
Dibromochloromethane
Concen: 112.783 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion:129 Resp: 230891

Ion	Ratio	Lower	Upper
129	100		
127	77.3	38.9	116.7





#61
1,2-Dibromoethane
Concen: 103.131 ug/l
RT: 9.604 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

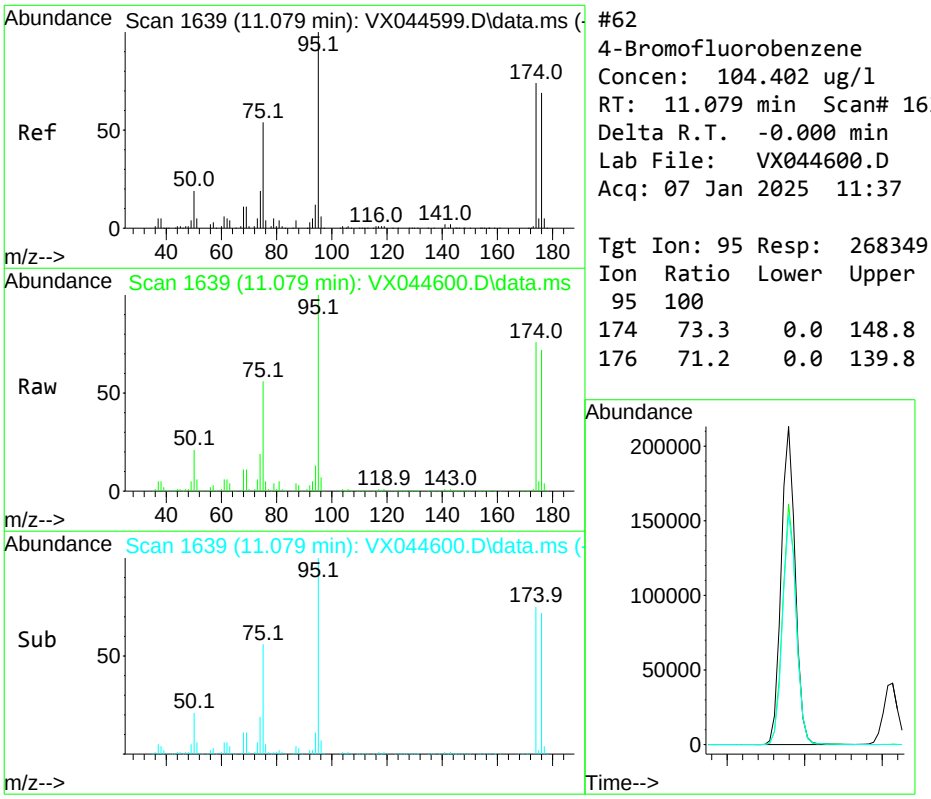
Tgt Ion:107 Resp: 213851

Ion	Ratio	Lower	Upper
107	100		
109	93.7	76.7	115.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

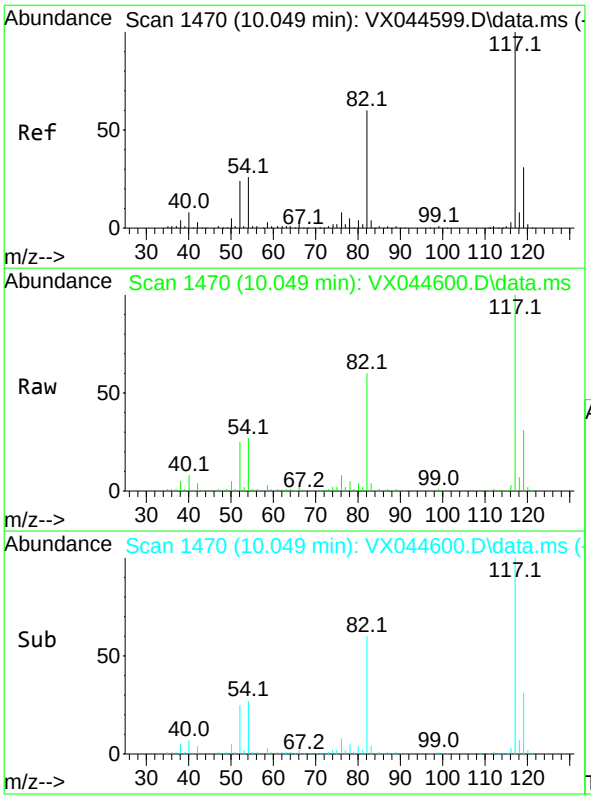
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025



#62
4-Bromofluorobenzene
Concen: 104.402 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 95 Resp: 268349

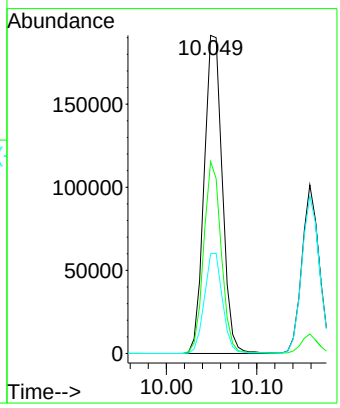
Ion	Ratio	Lower	Upper
95	100		
174	73.3	0.0	148.8
176	71.2	0.0	139.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion:117 Resp: 267228

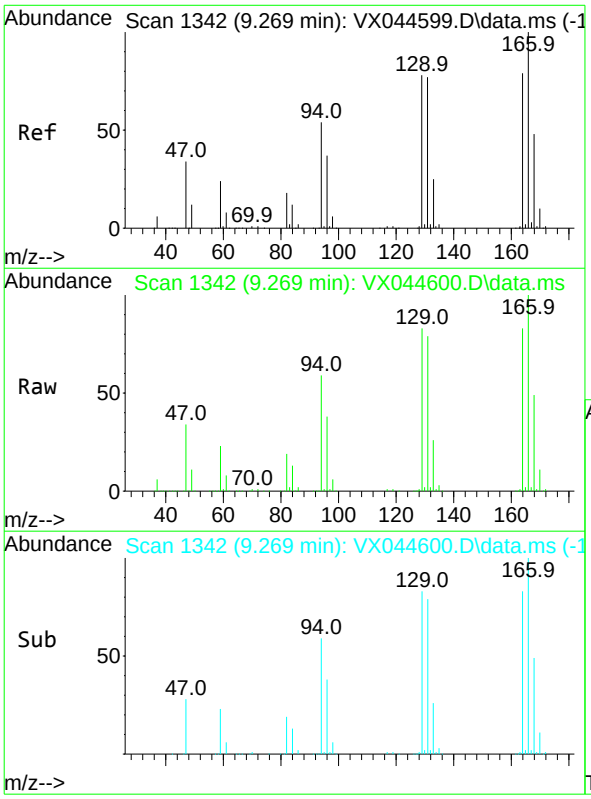
Ion	Ratio	Lower	Upper
117	100		
82	60.3	47.8	71.6
119	31.4	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

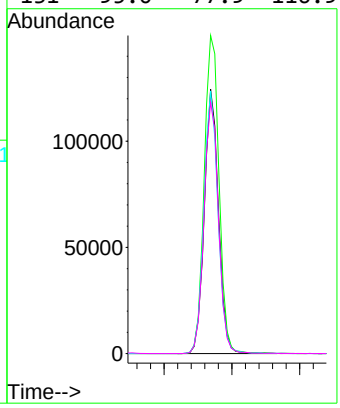
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

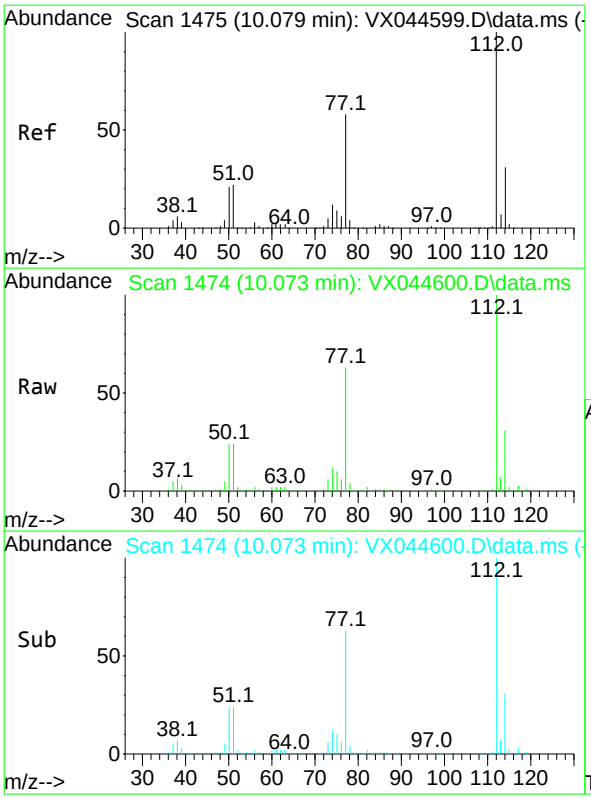


#64
Tetrachloroethene
Concen: 95.619 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion:164 Resp: 180662

Ion	Ratio	Lower	Upper
164	100		
166	120.3	101.5	152.3
129	99.4	78.9	118.3
131	95.0	77.9	116.9

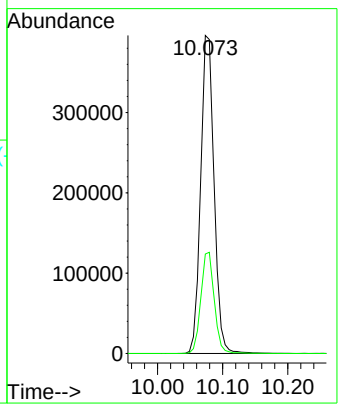




#65
Chlorobenzene
Concen: 100.126 ug/l
RT: 10.073 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion:112 Resp: 567868

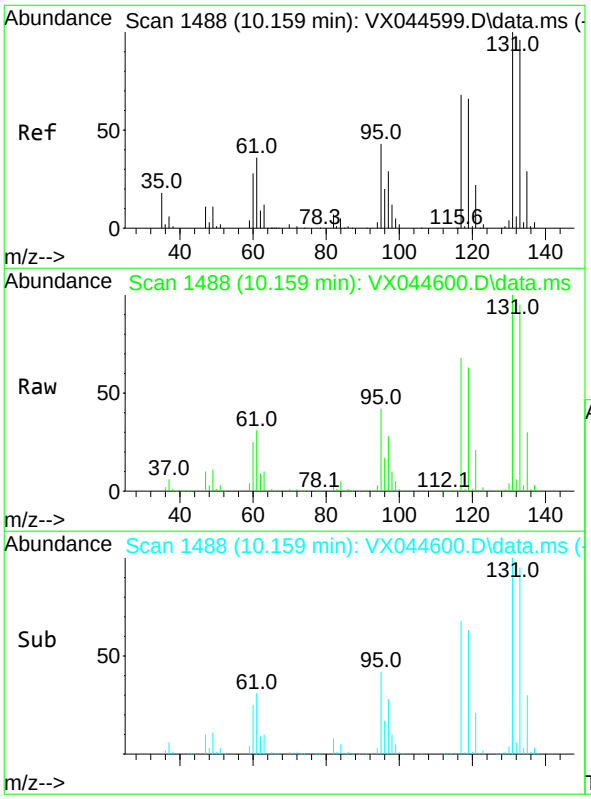
Ion	Ratio	Lower	Upper
112	100		
114	31.3	25.0	37.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

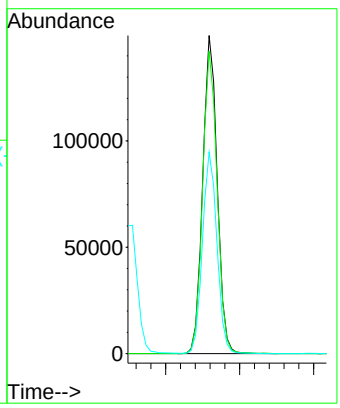
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

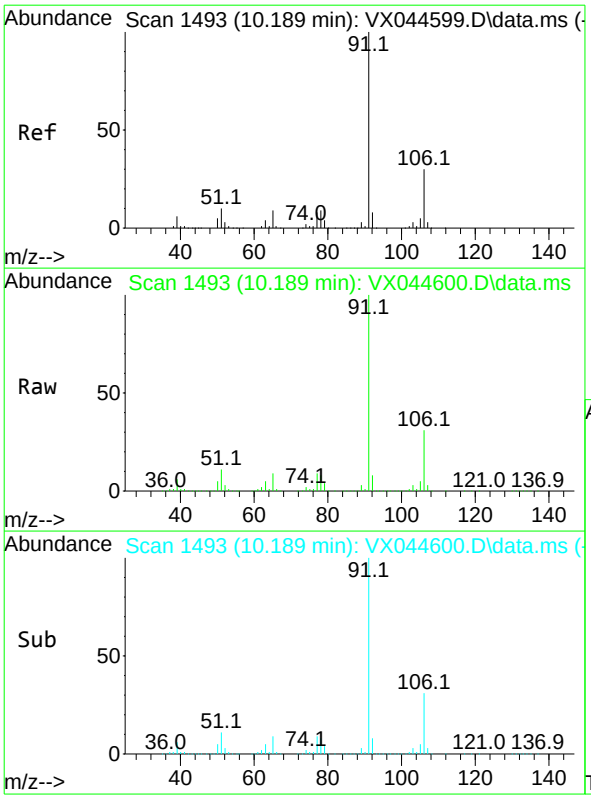


#66
1,1,1,2-Tetrachloroethane
Concen: 107.471 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion:131 Resp: 202443

Ion	Ratio	Lower	Upper
131	100		
133	95.2	48.0	144.0
119	63.7	32.8	98.4

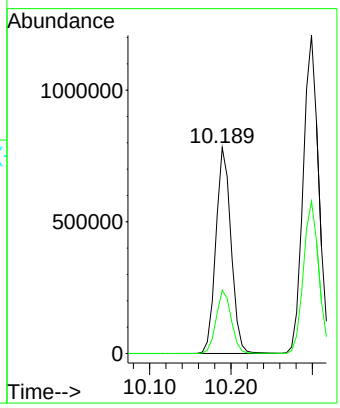




#67
Ethyl Benzene
Concen: 103.973 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 91 Resp: 1012626

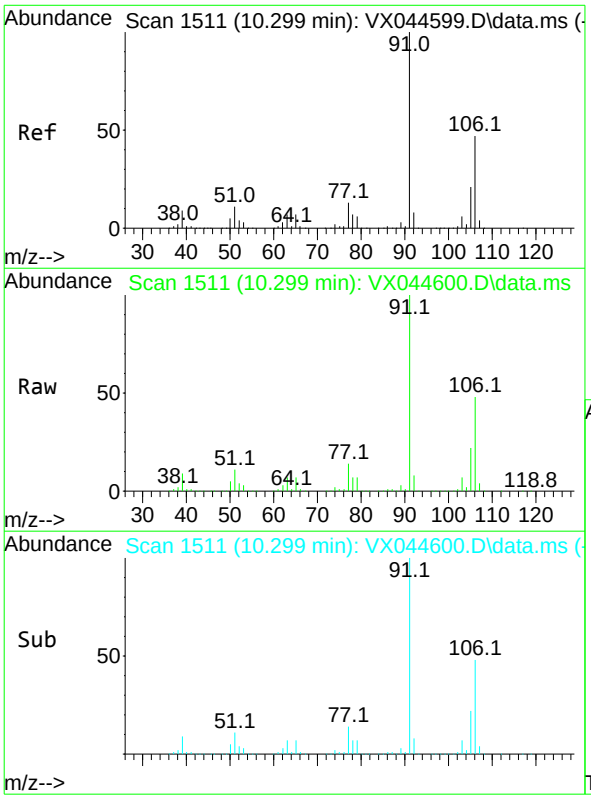
Ion	Ratio	Lower	Upper
91	100		
106	30.7	23.8	35.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

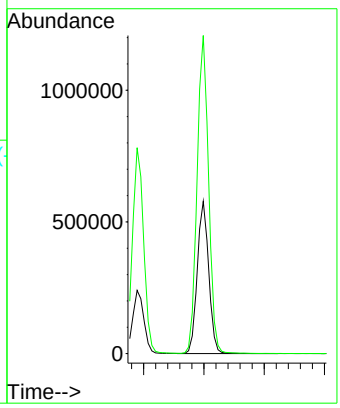
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

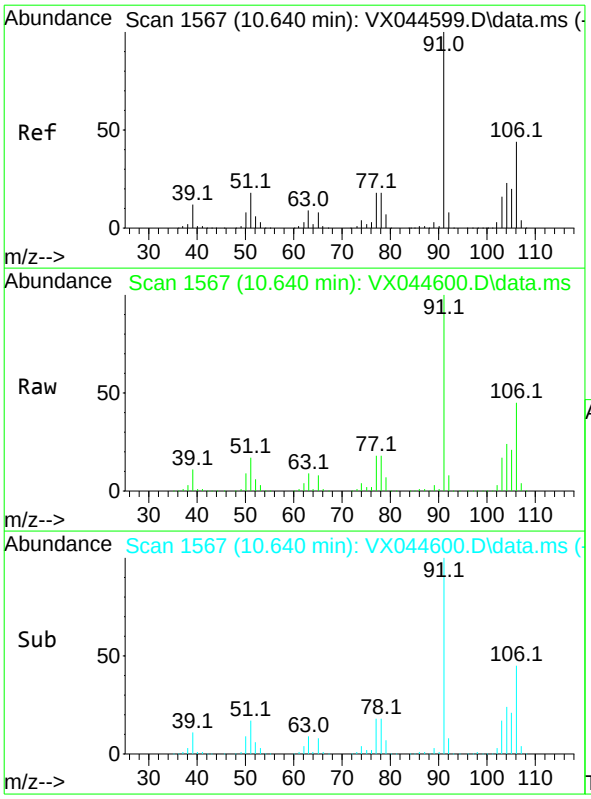


#68
m/p-Xylenes
Concen: 212.310 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion:106 Resp: 759829

Ion	Ratio	Lower	Upper
106	100		
91	210.2	170.4	255.6





#69
o-Xylene
Concen: 102.549 ug/l
RT: 10.640 min Scan# 15
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

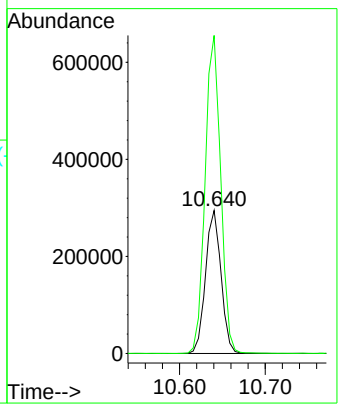
Tgt Ion:106 Resp: 370442

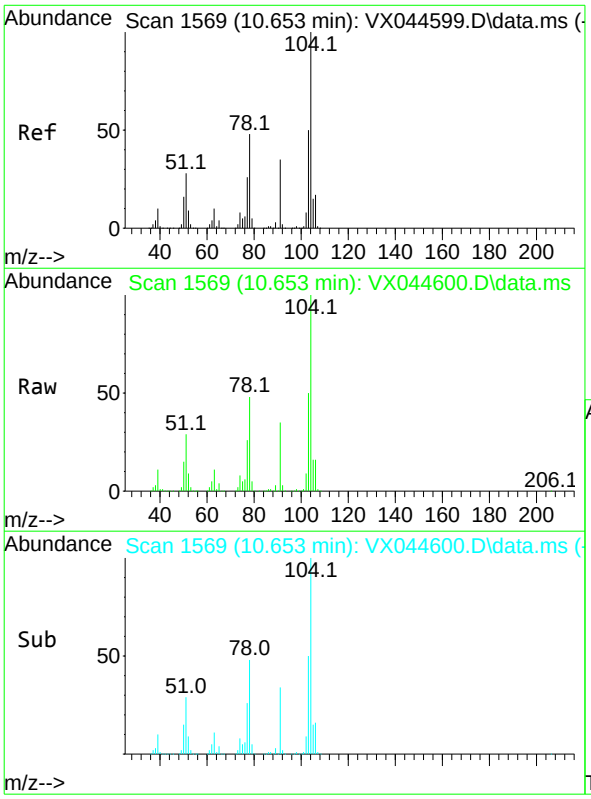
Ion	Ratio	Lower	Upper
106	100		
91	223.3	112.3	336.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

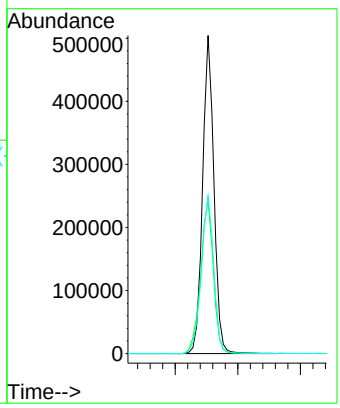


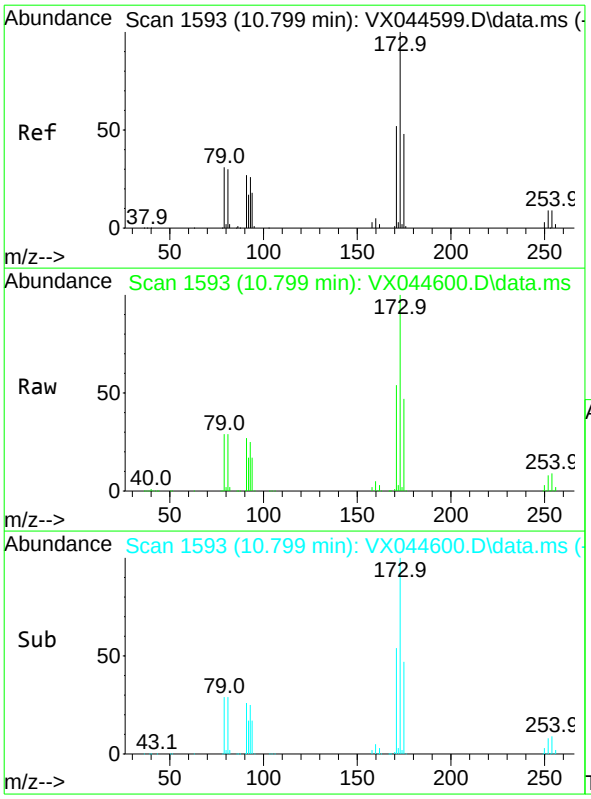


#70
Styrene
Concen: 109.281 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion:104 Resp: 631408

Ion	Ratio	Lower	Upper
104	100		
78	54.5	44.0	66.0
103	54.9	43.8	65.6

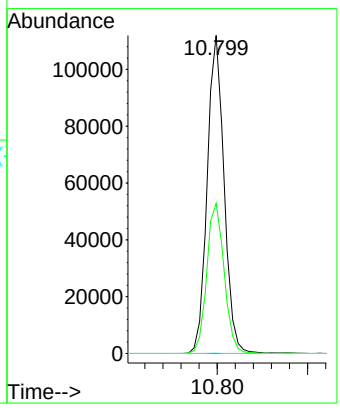




#71
Bromoform
Concen: 100.045 ug/l
RT: 10.799 min Scan# 15
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion:173 Resp: 144682

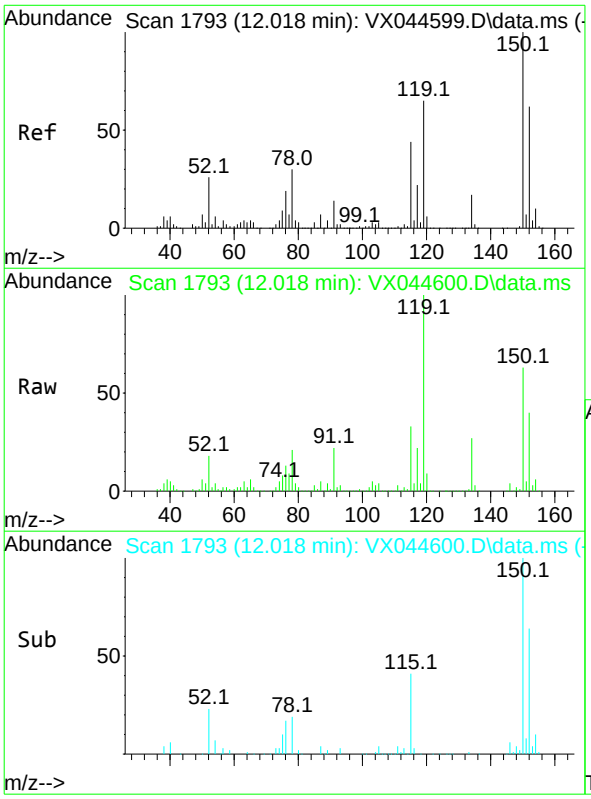
Ion	Ratio	Lower	Upper
173	100		
175	48.8	24.6	73.8
254	0.0	0.0	0.0#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

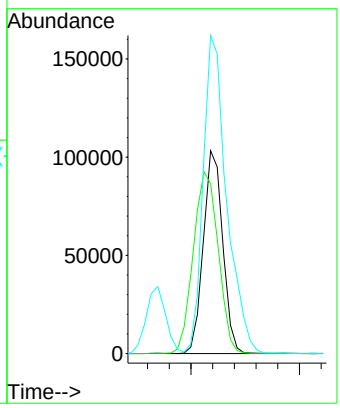
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

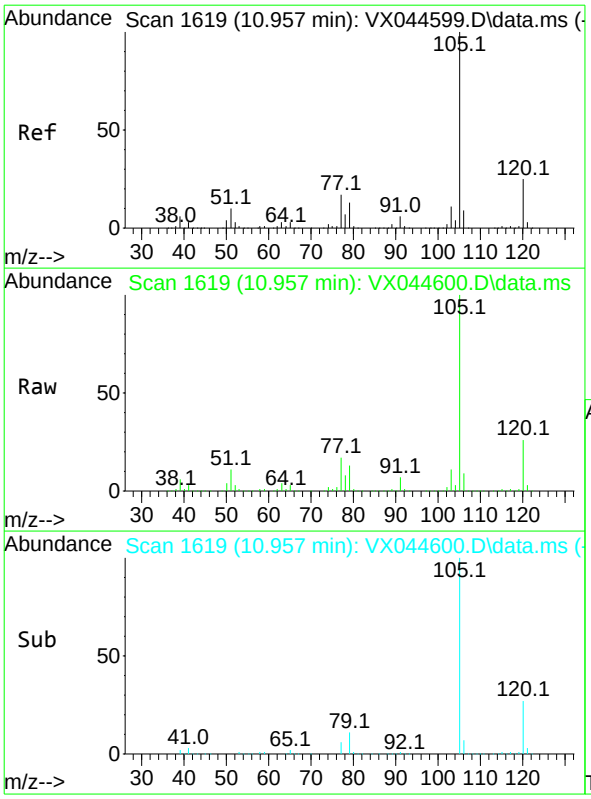


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion:152 Resp: 128628

Ion	Ratio	Lower	Upper
152	100		
115	115.0	44.4	133.1
150	188.8	0.0	355.0

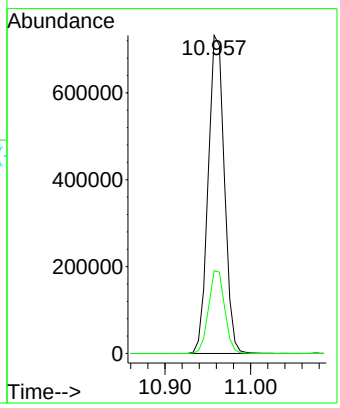




#73
Isopropylbenzene
Concen: 100.962 ug/l
RT: 10.957 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion:105 Resp: 962130

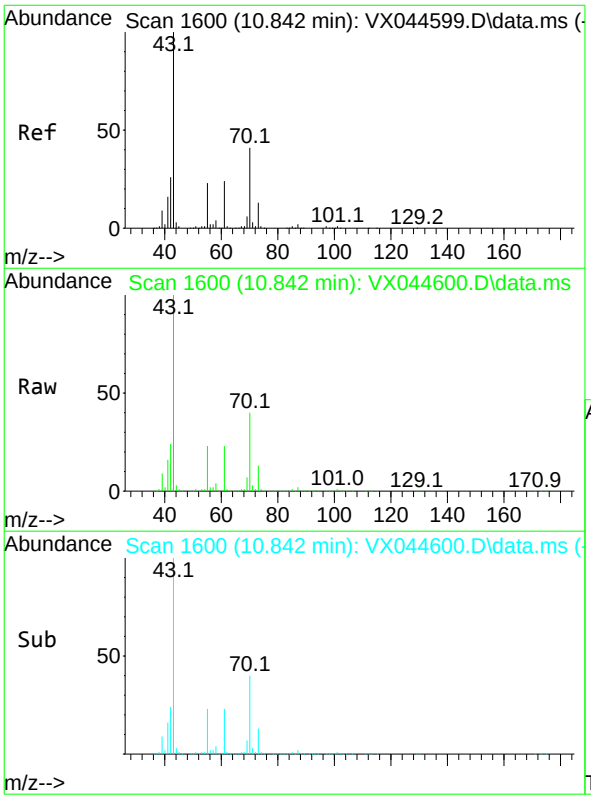
Ion	Ratio	Lower	Upper
105	100		
120	26.0	13.0	38.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

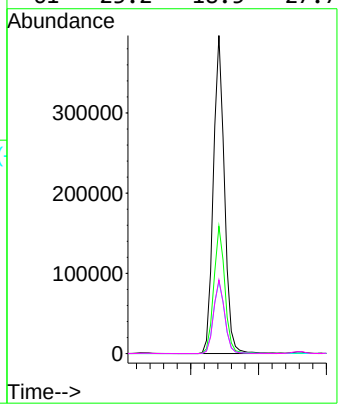
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

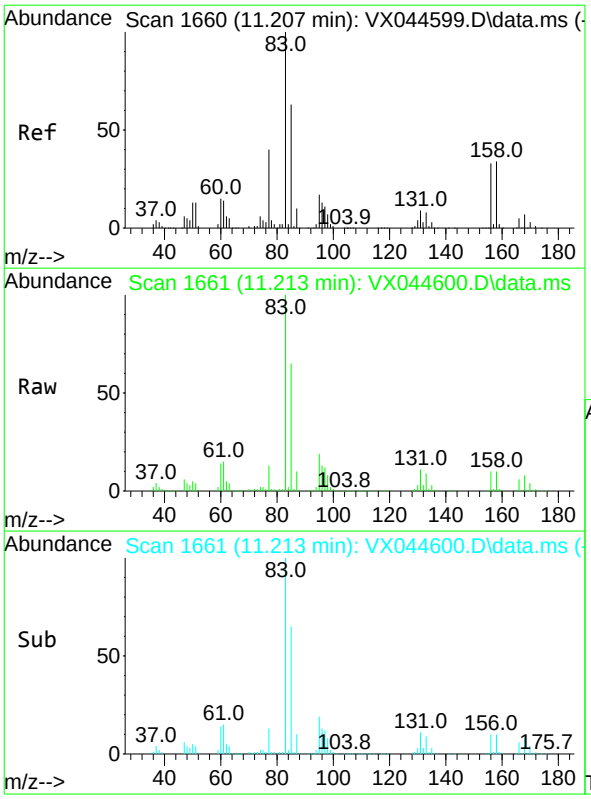


#74
N-amyl acetate
Concen: 116.075 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 43 Resp: 448832

Ion	Ratio	Lower	Upper
43	100		
70	39.8	32.9	49.3
55	23.2	19.0	28.6
61	23.2	18.5	27.7

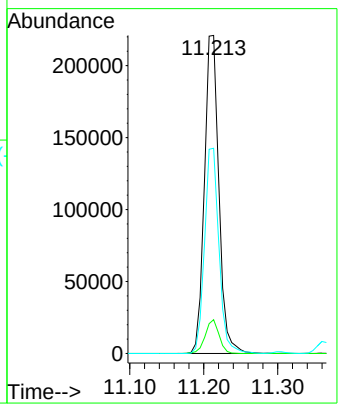




#75
1,1,2,2-Tetrachloroethane
Concen: 97.671 ug/l
RT: 11.213 min Scan# 16
Delta R.T. 0.006 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 83 Resp: 300014

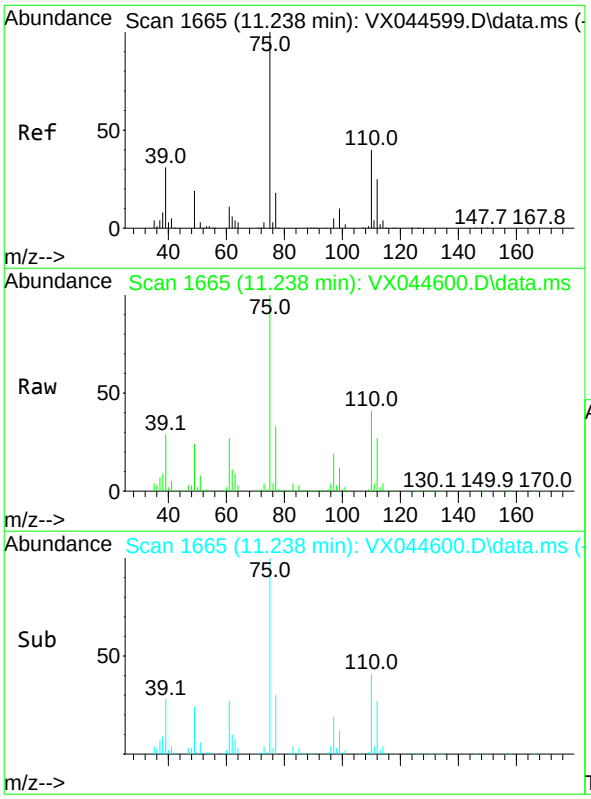
Ion	Ratio	Lower	Upper
83	100		
131	10.2	5.0	15.0
85	64.3	31.9	95.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

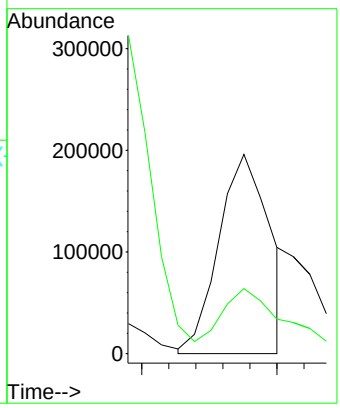
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

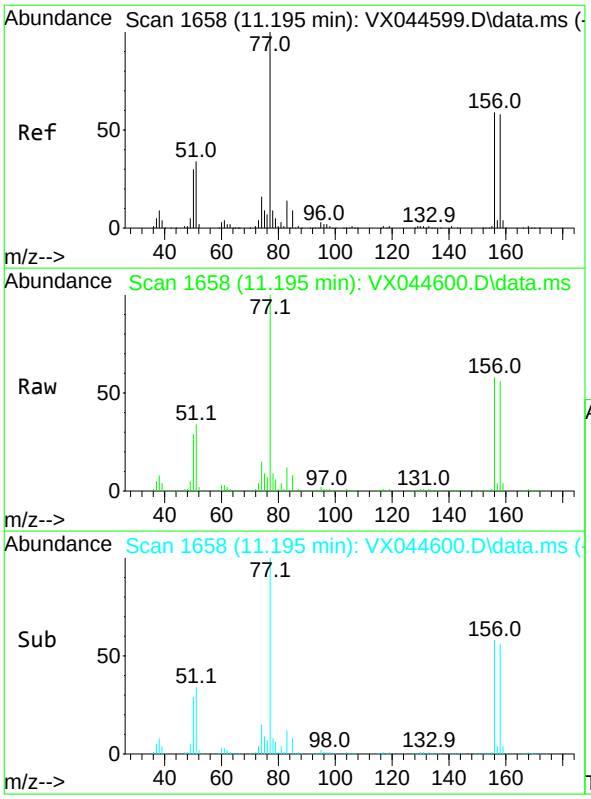


#76
1,2,3-Trichloropropane
Concen: 99.370 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 75 Resp: 256224

Ion	Ratio	Lower	Upper
75	100		
77	41.8	21.1	63.1

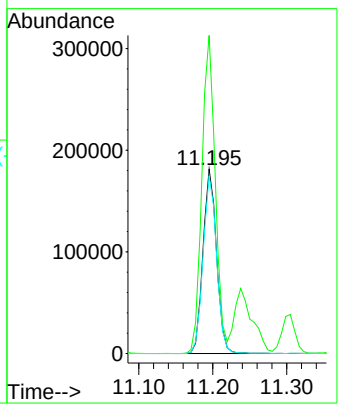




#77
Bromobenzene
Concen: 99.301 ug/l
RT: 11.195 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion:156 Resp: 229880

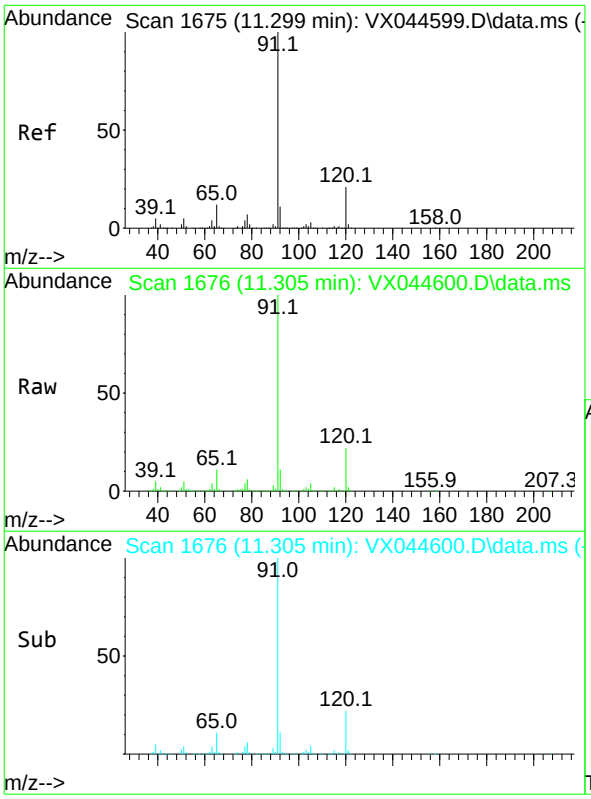
Ion	Ratio	Lower	Upper
156	100		
77	171.2	85.7	257.1
158	96.4	49.9	149.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

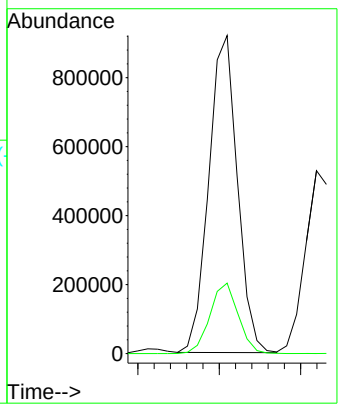
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

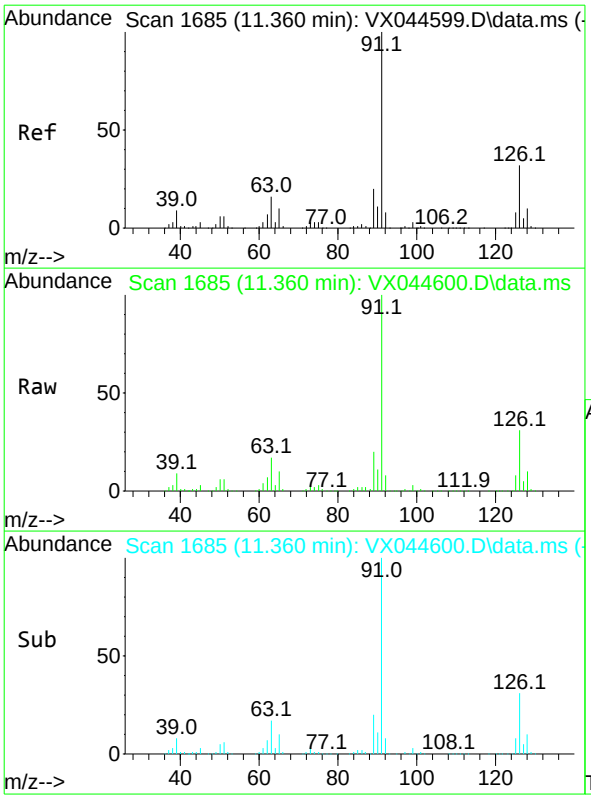


#78
n-propylbenzene
Concen: 104.704 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.006 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 91 Resp: 1123872

Ion	Ratio	Lower	Upper
91	100		
120	22.0	11.2	33.5

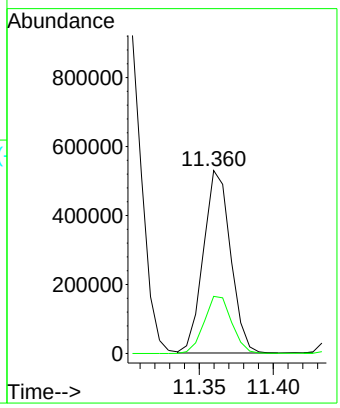




#79
2-Chlorotoluene
Concen: 97.250 ug/l
RT: 11.360 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 91 Resp: 676433

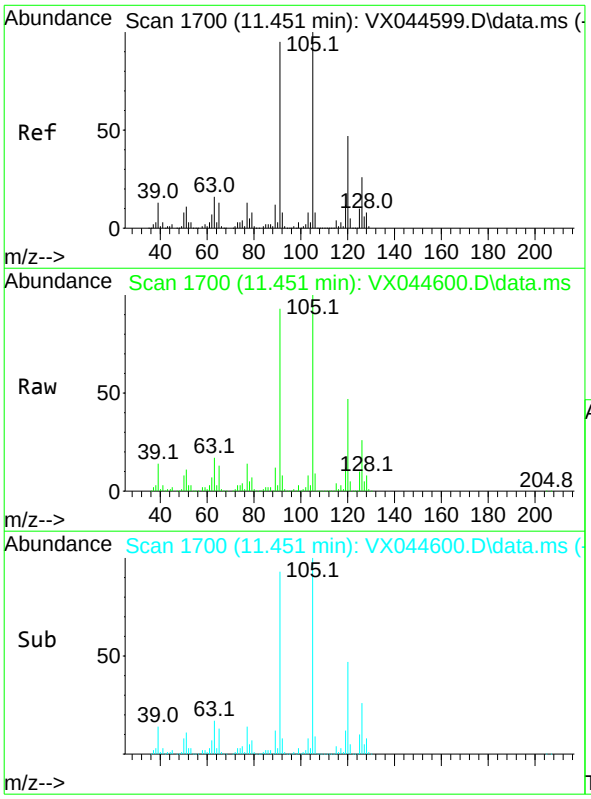
Ion	Ratio	Lower	Upper
91	100		
126	31.9	16.4	49.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

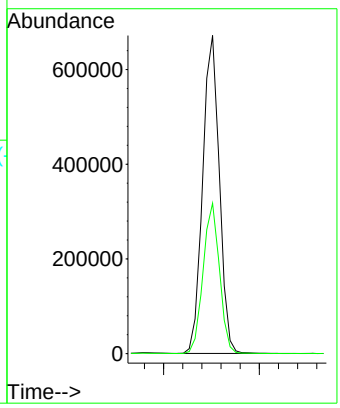
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

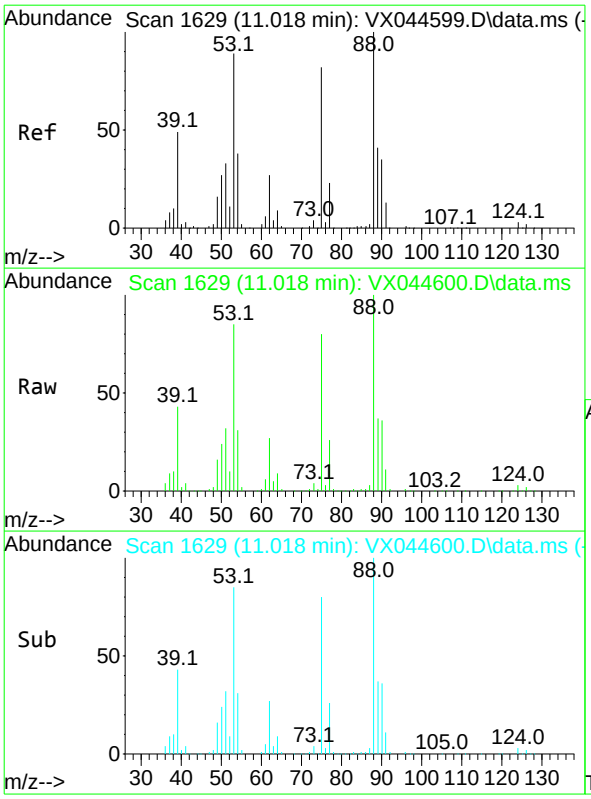


#80
1,3,5-Trimethylbenzene
Concen: 102.880 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion:105 Resp: 812896

Ion	Ratio	Lower	Upper
105	100		
120	46.4	23.5	70.5

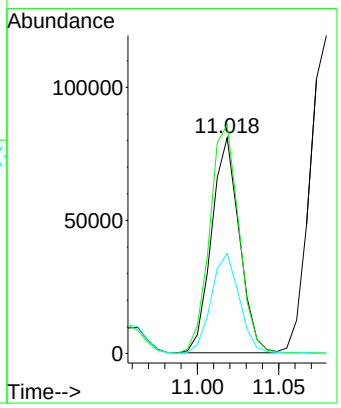




#81
trans-1,4-Dichloro-2-butene
Concen: 113.646 ug/l
RT: 11.018 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 75 Resp: 96267

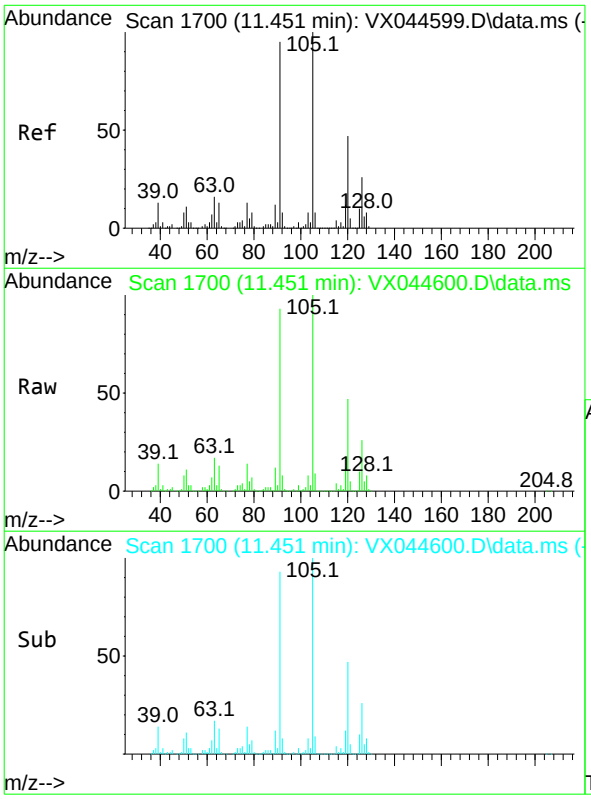
Ion	Ratio	Lower	Upper
75	100		
53	112.8	92.7	139.1
89	46.9	38.3	57.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

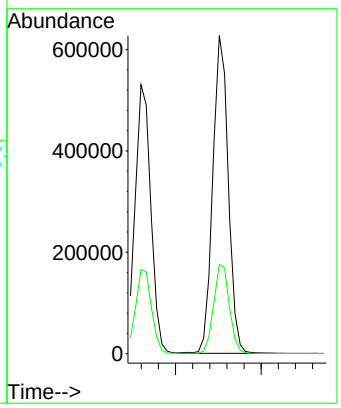
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

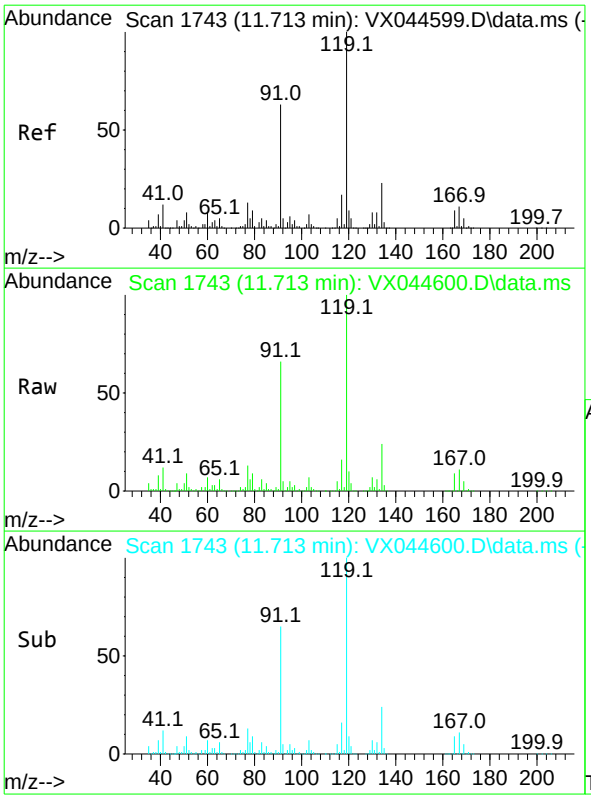


#82
4-Chlorotoluene
Concen: 100.727 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 91 Resp: 788178

Ion	Ratio	Lower	Upper
91	100		
126	28.5	14.0	42.0

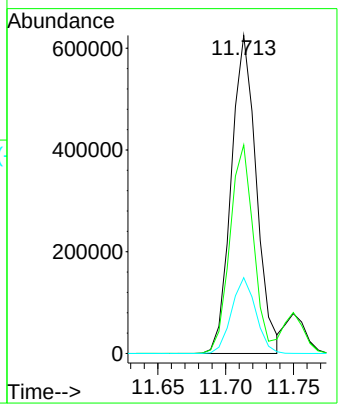




#83
tert-Butylbenzene
Concen: 102.037 ug/l
RT: 11.713 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion:119 Resp: 802790

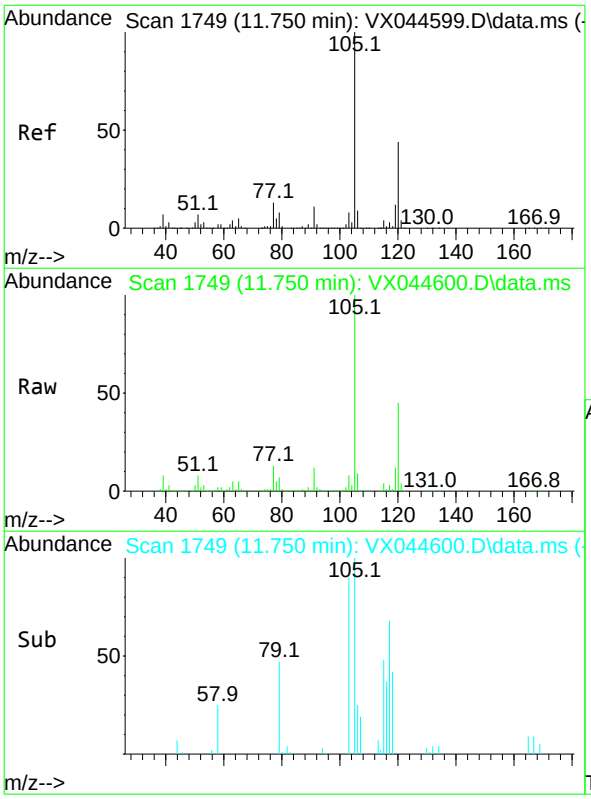
Ion	Ratio	Lower	Upper
119	100		
91	62.8	30.9	92.8
134	23.1	11.7	35.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

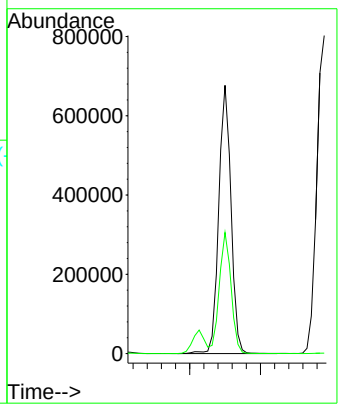
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

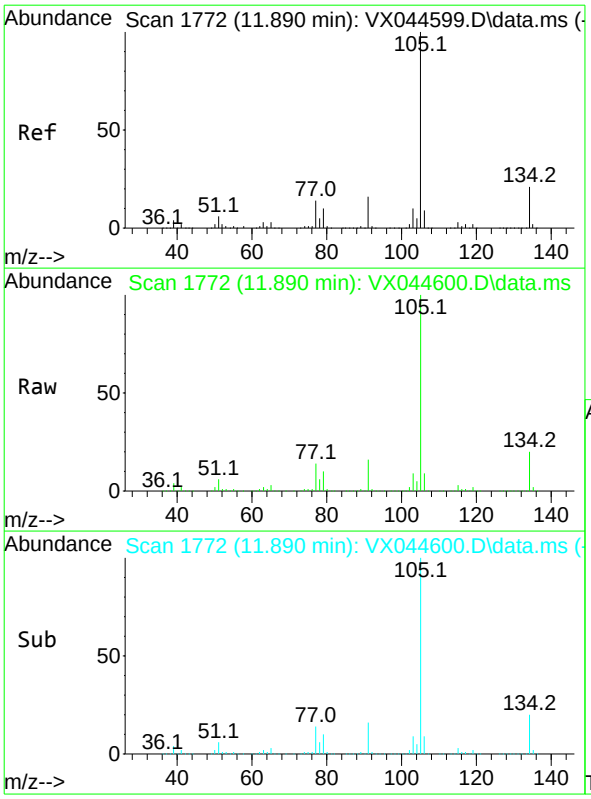


#84
1,2,4-Trimethylbenzene
Concen: 102.161 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion:105 Resp: 810865

Ion	Ratio	Lower	Upper
105	100		
120	43.7	21.9	65.7

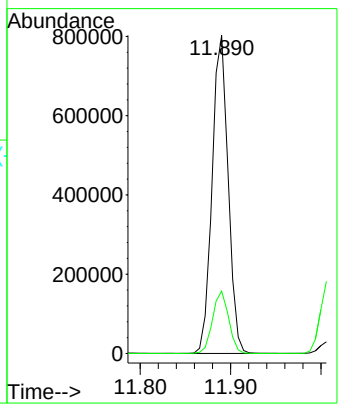




#85
sec-Butylbenzene
Concen: 103.145 ug/l
RT: 11.890 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion:105 Resp: 988328

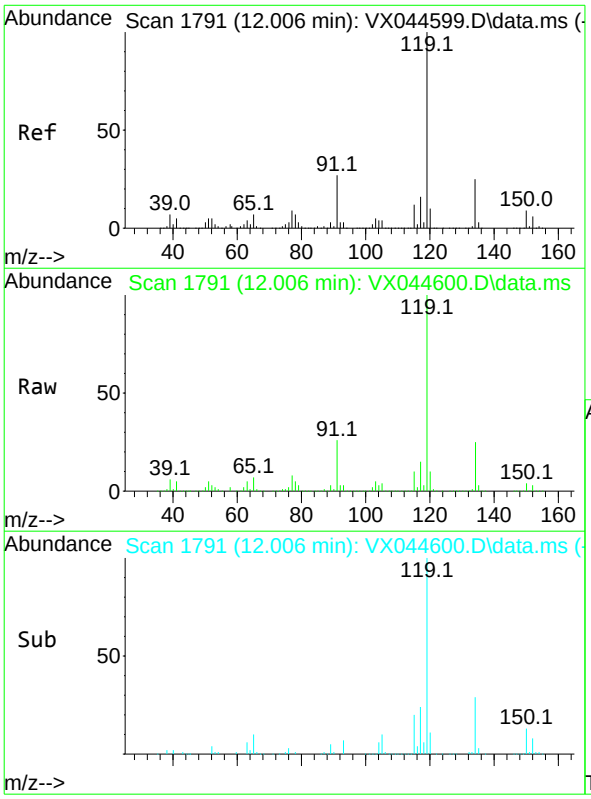
Ion	Ratio	Lower	Upper
105	100		
134	19.7	9.9	29.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

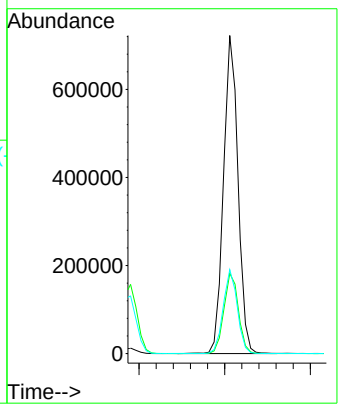
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

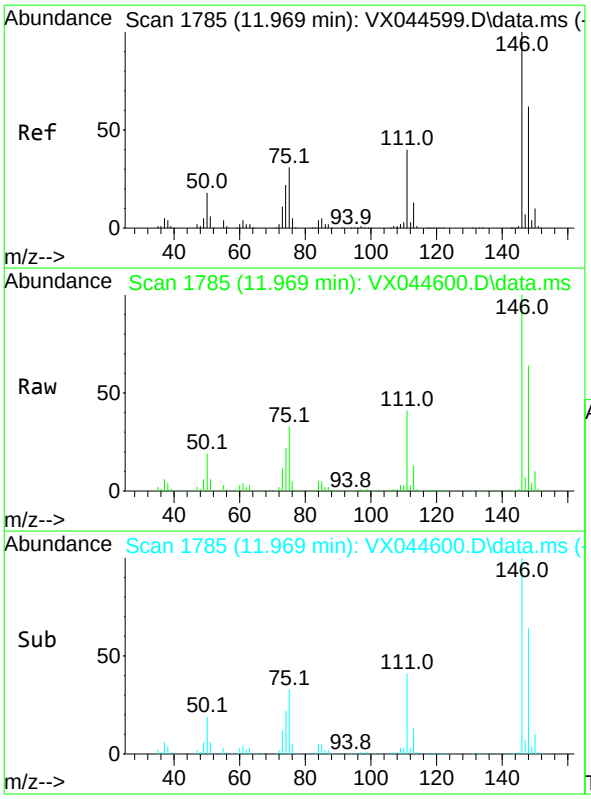


#86
p-Isopropyltoluene
Concen: 105.534 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion:119 Resp: 848479

Ion	Ratio	Lower	Upper
119	100		
134	25.3	12.6	37.8
91	25.6	13.1	39.1

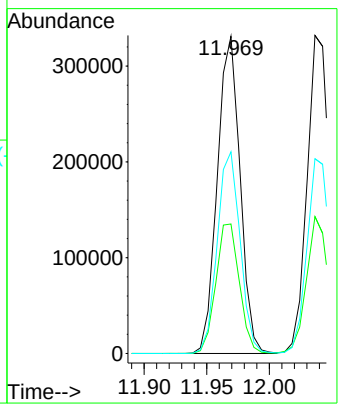




#87
1,3-Dichlorobenzene
Concen: 100.060 ug/l
RT: 11.969 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion:146 Resp: 419032

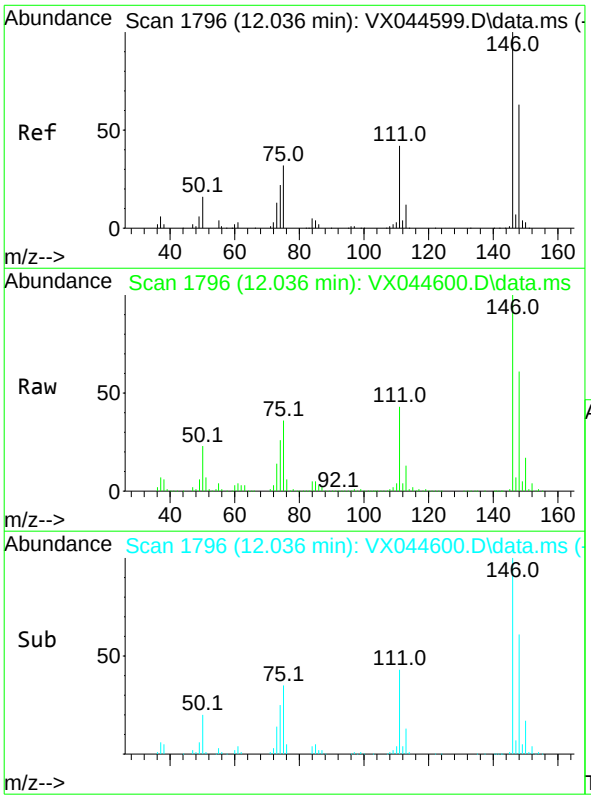
Ion	Ratio	Lower	Upper
146	100		
111	42.3	21.0	63.0
148	63.9	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

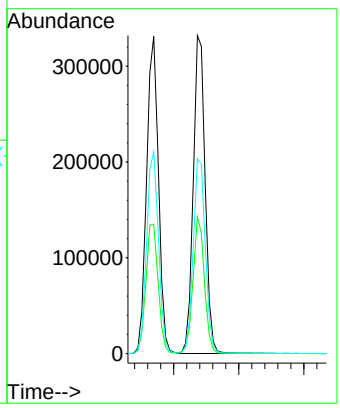
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

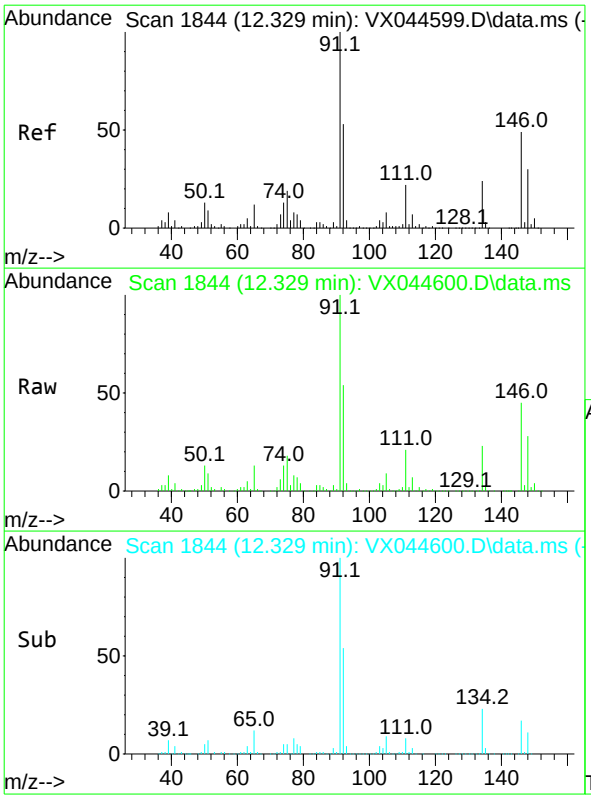


#88
1,4-Dichlorobenzene
Concen: 96.532 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion:146 Resp: 421191

Ion	Ratio	Lower	Upper
146	100		
111	40.9	20.7	62.1
148	62.4	31.8	95.4

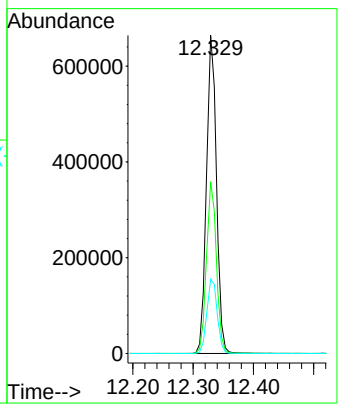




#89
n-Butylbenzene
Concen: 112.811 ug/l
RT: 12.329 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 91 Resp: 765855

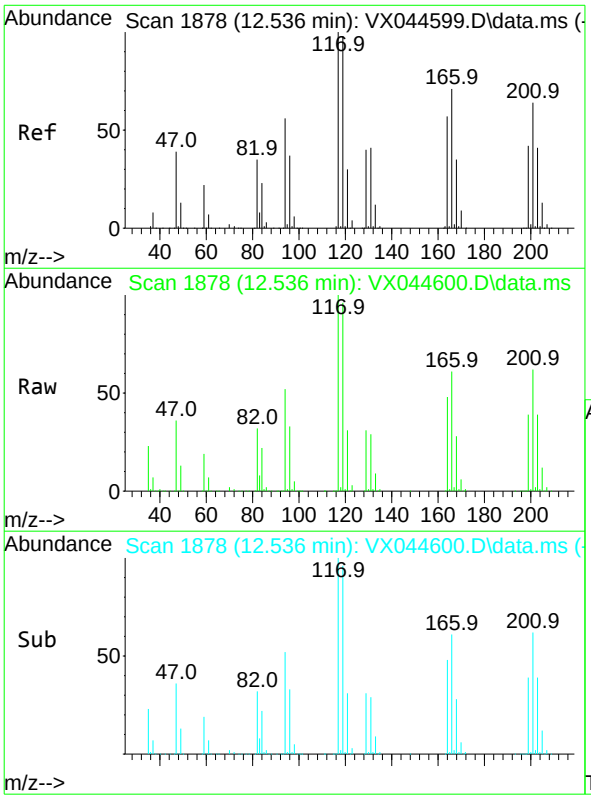
Ion	Ratio	Lower	Upper
91	100		
92	53.6	26.5	79.4
134	24.3	12.4	37.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

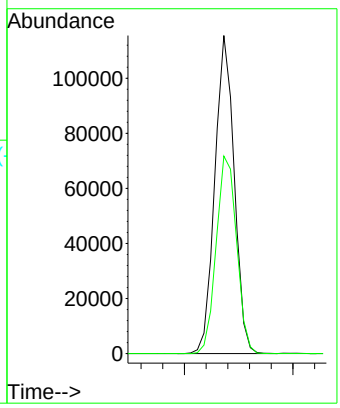
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

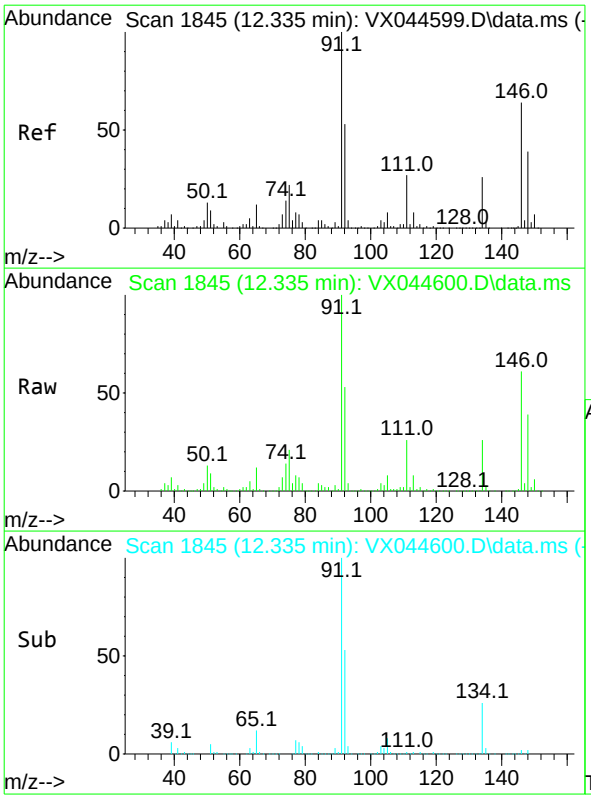


#90
Hexachloroethane
Concen: 111.076 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion:117 Resp: 143461

Ion	Ratio	Lower	Upper
117	100		
201	65.3	33.6	100.6

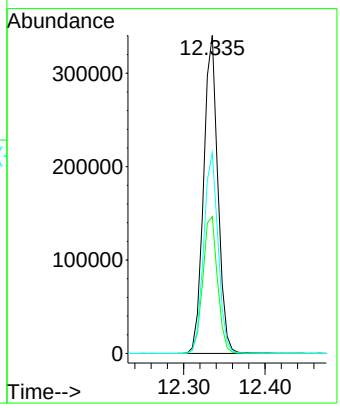




#91
1,2-Dichlorobenzene
Concen: 97.964 ug/l
RT: 12.335 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion:146 Resp: 414572

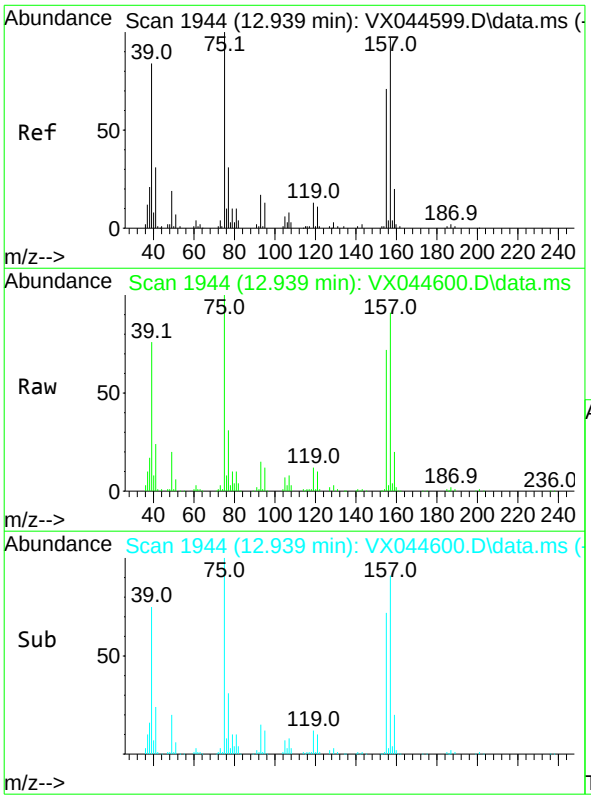
Ion	Ratio	Lower	Upper
146	100		
111	44.7	21.8	65.4
148	63.6	31.1	93.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

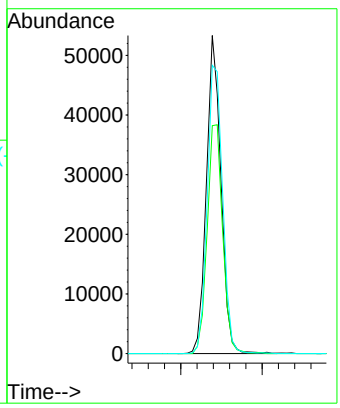
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

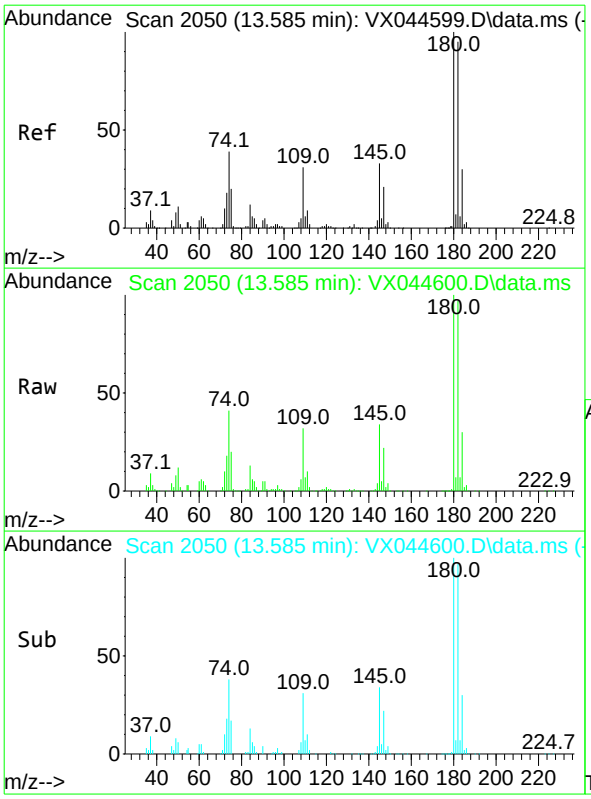


#92
1,2-Dibromo-3-Chloropropane
Concen: 113.620 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 75 Resp: 66164

Ion	Ratio	Lower	Upper
75	100		
155	76.6	37.4	112.1
157	96.0	48.0	144.2

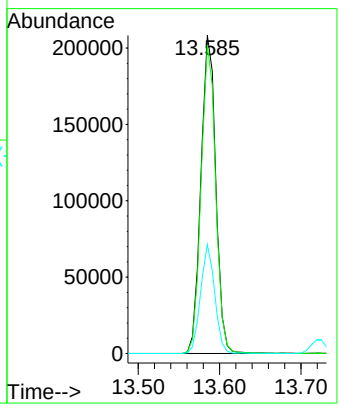




#93
1,2,4-Trichlorobenzene
Concen: 105.934 ug/l
RT: 13.585 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion:180 Resp: 263479

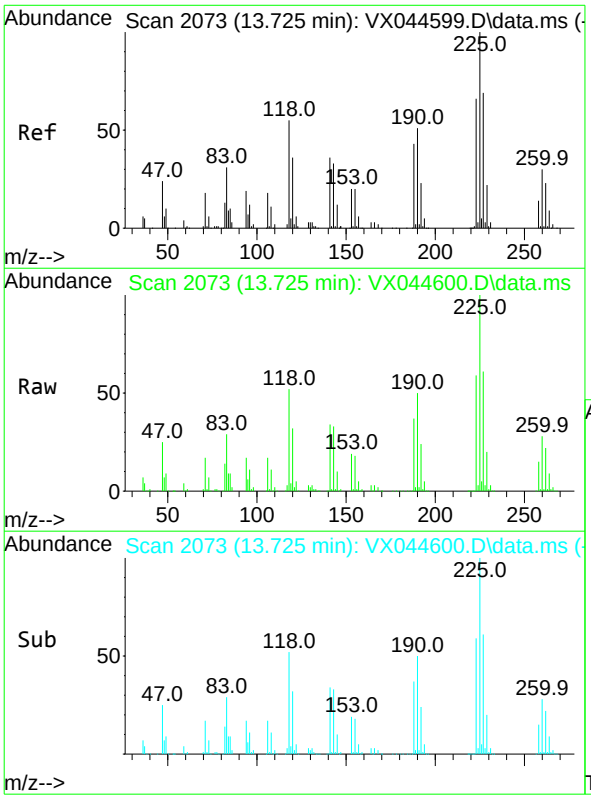
Ion	Ratio	Lower	Upper
180	100		
182	95.2	47.9	143.6
145	32.7	16.3	48.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

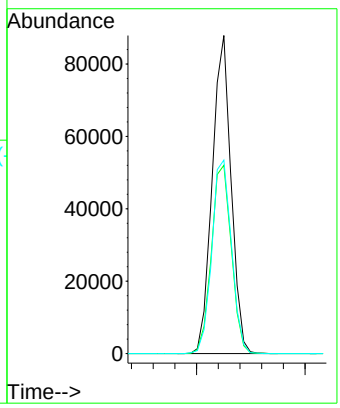
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

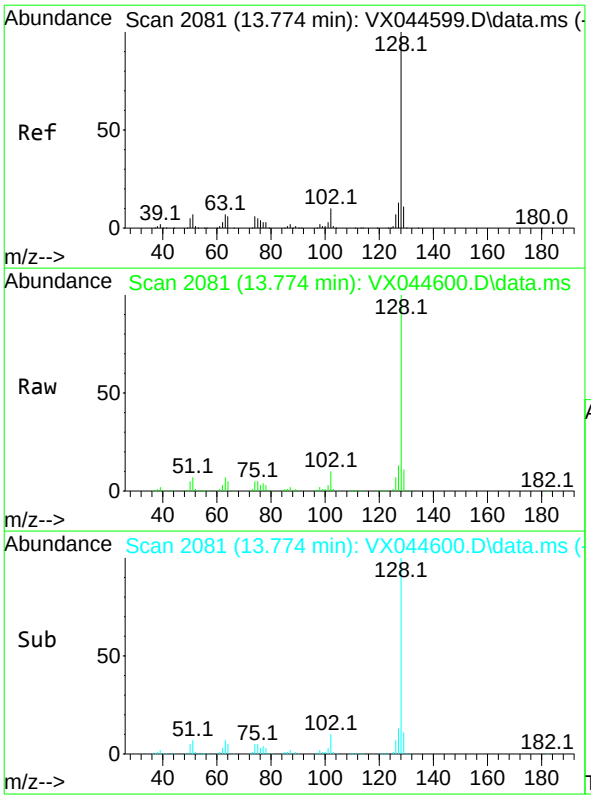


#94
Hexachlorobutadiene
Concen: 102.333 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion:225 Resp: 105982

Ion	Ratio	Lower	Upper
225	100		
223	62.6	31.6	94.8
227	63.3	31.9	95.9

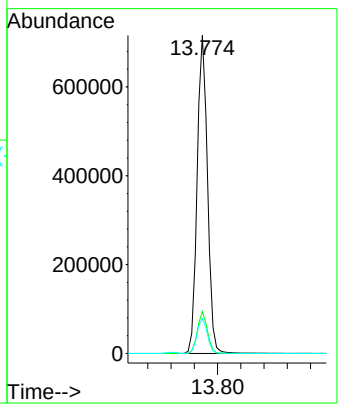




#95
Naphthalene
Concen: 110.159 ug/l
RT: 13.774 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion:128 Resp: 884039

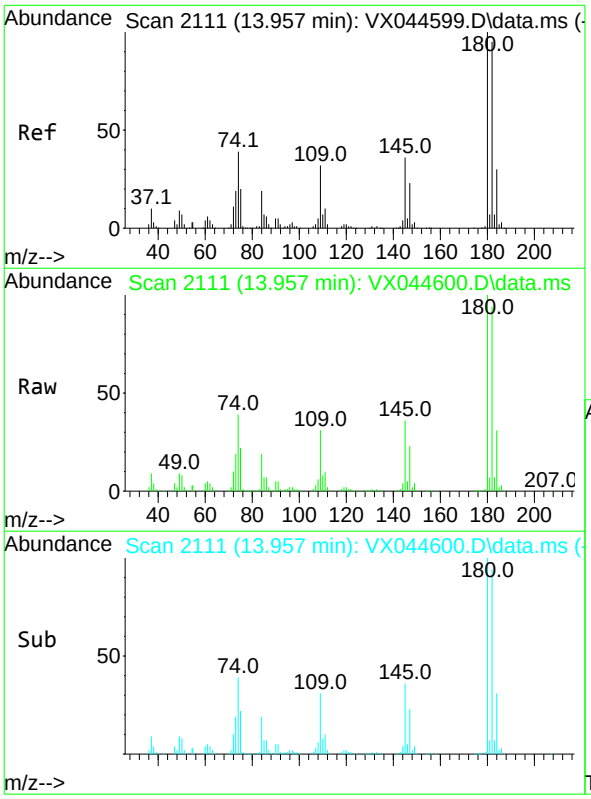
Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.5	15.7
129	11.0	8.6	13.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

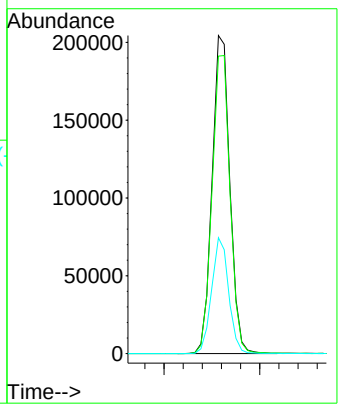
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025



#96
1,2,3-Trichlorobenzene
Concen: 103.439 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion:180 Resp: 262997

Ion	Ratio	Lower	Upper
180	100		
182	95.4	47.6	142.9
145	35.0	17.6	52.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044601.D
Acq On : 07 Jan 2025 12:00
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 08 02:31:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 02:18:40 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene	5.544	168	193833	50.000 ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	322230	50.000 ug/l	0.00
63) Chlorobenzene-d5	10.055	117	272245	50.000 ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	134118	50.000 ug/l	0.00
System Monitoring Compounds					
33) 1,2-Dichloroethane-d4	5.952	65	363804	116.405 ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 232.820%#		
35) Dibromofluoromethane	5.379	113	318562	144.173 ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 288.340%#		
50) Toluene-d8	8.647	98	1071800	142.008 ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 284.020%#		
62) 4-Bromofluorobenzene	11.079	95	386929	145.246 ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 290.500%#		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.167	85	396696	141.444 ug/l	99
3) Chloromethane	1.295	50	361151	129.221 ug/l	100
4) Vinyl Chloride	1.374	62	362740	138.352 ug/l	98
5) Bromomethane	1.599	94	156875	115.510 ug/l	99
7) Trichlorofluoromethane	1.868	101	497464	127.427 ug/l	97
8) Diethyl Ether	2.130	74	172572	125.105 ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.319	101	322006	143.860 ug/l	94
10) Methyl Iodide	2.447	142	458572	146.920 ug/l	91
11) Tert butyl alcohol	3.020	59	243259	632.101 ug/l	99
12) 1,1-Dichloroethene	2.313	96	321732	148.372 ug/l #	80
13) Acrolein	2.233	56	348160	684.238 ug/l	98
14) Allyl chloride	2.654	41	481127	133.411 ug/l #	87
15) Acrylonitrile	3.069	53	729569	658.245 ug/l	98
16) Acetone	2.386	43	557867	566.340 ug/l #	89
17) Carbon Disulfide	2.502	76	785944	175.284 ug/l	99
18) Methyl Acetate	2.703	43	358794	123.407 ug/l	93
19) Methyl tert-butyl Ether	3.111	73	1003928	135.096 ug/l	99
20) Methylene Chloride	2.782	84	347783	138.392 ug/l	89
21) trans-1,2-Dichloroethene	3.081	96	326842	146.862 ug/l	87
22) Diisopropyl ether	3.758	45	902333	121.714 ug/l	95
23) Vinyl Acetate	3.721	43	3843854	641.181 ug/l #	93
24) 1,1-Dichloroethane	3.605	63	569743	131.892 ug/l	99
25) 2-Butanone	4.562	43	880207	619.080 ug/l	91
26) 2,2-Dichloropropane	4.465	77	497336	133.162 ug/l	95
27) cis-1,2-Dichloroethene	4.477	96	394578	145.402 ug/l	89
28) Bromochloromethane	4.891	49	246126	122.401 ug/l #	74
29) Tetrahydrofuran	5.001	42	580089	595.793 ug/l	91
30) Chloroform	5.087	83	598049	128.421 ug/l	99
31) Cyclohexane	5.458	56	475840	134.163 ug/l	85
32) 1,1,1-Trichloroethane	5.373	97	545752	139.254 ug/l	95
36) 1,1-Dichloropropene	5.684	75	406061	142.120 ug/l	96
37) Ethyl Acetate	4.715	43	363828	124.576 ug/l #	94
38) Carbon Tetrachloride	5.666	117	471467	148.724 ug/l	100
39) Methylcyclohexane	7.373	83	552098	151.439 ug/l	91
40) Benzene	6.032	78	1280226	142.310 ug/l	99
41) Methacrylonitrile	4.922	41	196413	125.194 ug/l	90

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044601.D
Acq On : 07 Jan 2025 12:00
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 08 02:31:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 02:18:40 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
42) 1,2-Dichloroethane	6.080	62	422697	120.148 ug/l		93
43) Isopropyl Acetate	6.336	43	611339	126.783 ug/l	#	92
44) Trichloroethene	7.123	130	349611	152.030 ug/l		94
45) 1,2-Dichloropropane	7.428	63	299322	136.469 ug/l		97
46) Dibromomethane	7.574	93	235994	138.350 ug/l		93
47) Bromodichloromethane	7.818	83	443978	143.029 ug/l		99
48) Methyl methacrylate	7.690	41	296575	128.954 ug/l		88
49) 1,4-Dioxane	7.665	88	104987	3106.467 ug/l	#	91
51) 4-Methyl-2-Pentanone	8.574	43	1711444	607.176 ug/l		92
52) Toluene	8.714	92	784020	144.441 ug/l		95
53) t-1,3-Dichloropropene	8.976	75	457387	154.153 ug/l		98
54) cis-1,3-Dichloropropene	8.360	75	504071	151.162 ug/l	#	87
55) 1,1,2-Trichloroethane	9.147	97	297735	139.918 ug/l		96
56) Ethyl methacrylate	9.116	69	468501	151.390 ug/l	#	84
57) 1,3-Dichloropropane	9.305	76	489228	136.912 ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	1096941	715.006 ug/l		91
59) 2-Hexanone	9.433	43	1253079	628.603 ug/l		88
60) Dibromochloromethane	9.519	129	349531	164.735 ug/l		100
61) 1,2-Dibromoethane	9.604	107	316369	147.210 ug/l		99
64) Tetrachloroethene	9.269	164	281910	146.458 ug/l		98
65) Chlorobenzene	10.073	112	869620	150.505 ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.159	131	304267	158.550 ug/l		99
67) Ethyl Benzene	10.189	91	1456186	146.761 ug/l		96
68) m/p-Xylenes	10.299	106	1116860	306.320 ug/l		92
69) o-Xylene	10.640	106	557711	151.545 ug/l		89
70) Styrene	10.653	104	935547	158.937 ug/l		95
71) Bromoform	10.799	173	239442	149.977 ug/l	#	98
73) Isopropylbenzene	10.957	105	1414616	142.367 ug/l		98
74) N-amyl acetate	10.842	43	538859	133.652 ug/l		92
75) 1,1,2,2-Tetrachloroethane	11.214	83	423014	132.076 ug/l		98
76) 1,2,3-Trichloropropane	11.238	75	349569m	130.022 ug/l		
77) Bromobenzene	11.195	156	361039	149.574 ug/l		89
78) n-propylbenzene	11.305	91	1596196	142.620 ug/l		96
79) 2-Chlorotoluene	11.360	91	961904	132.631 ug/l		96
80) 1,3,5-Trimethylbenzene	11.451	105	1163357	141.208 ug/l		96
81) trans-1,4-Dichloro-2-b...	11.018	75	143479	162.448 ug/l	#	82
82) 4-Chlorotoluene	11.451	91	1104003	135.314 ug/l		94
83) tert-Butylbenzene	11.713	119	1224555	149.273 ug/l		95
84) 1,2,4-Trimethylbenzene	11.750	105	1205026	145.607 ug/l		97
85) sec-Butylbenzene	11.890	105	1483948	148.531 ug/l		99
86) p-Isopropyltoluene	12.006	119	1277498	152.392 ug/l		96
87) 1,3-Dichlorobenzene	11.969	146	664944	152.281 ug/l		98
88) 1,4-Dichlorobenzene	12.037	146	662357	145.590 ug/l		98
89) n-Butylbenzene	12.329	91	1090816	154.101 ug/l		96
90) Hexachloroethane	12.536	117	224919	167.017 ug/l		94
91) 1,2-Dichlorobenzene	12.335	146	656010	148.671 ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.939	75	91050	149.956 ug/l		76
93) 1,2,4-Trichlorobenzene	13.585	180	451648	174.156 ug/l		99
94) Hexachlorobutadiene	13.725	225	176486	163.433 ug/l		99
95) Naphthalene	13.774	128	1490078	178.076 ug/l		99
96) 1,2,3-Trichlorobenzene	13.957	180	452293	170.608 ug/l		98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044601.D
Acq On : 07 Jan 2025 12:00
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

Quant Time: Jan 08 02:31:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 02:18:40 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

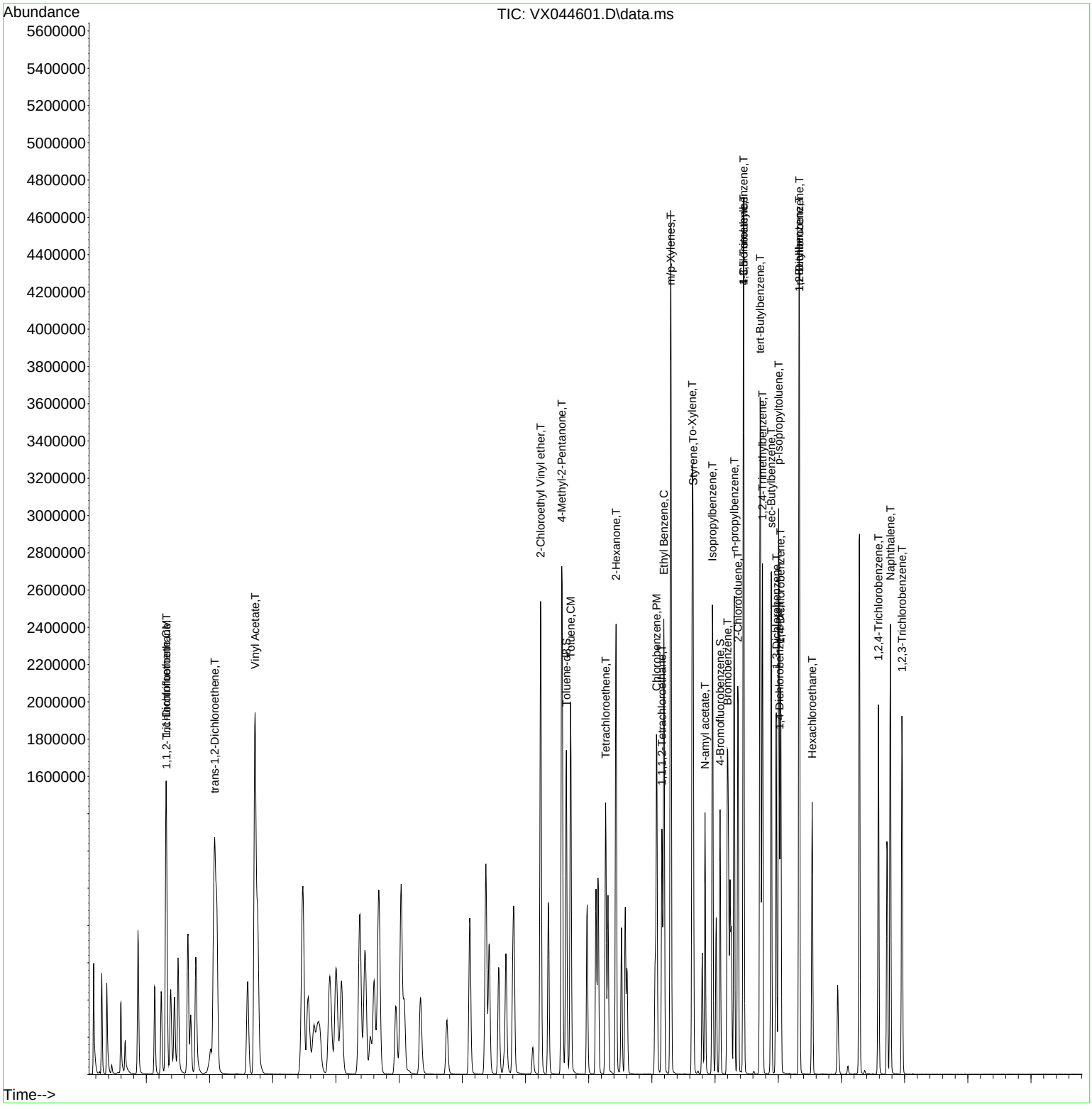
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044601.D
Acq On : 07 Jan 2025 12:00
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

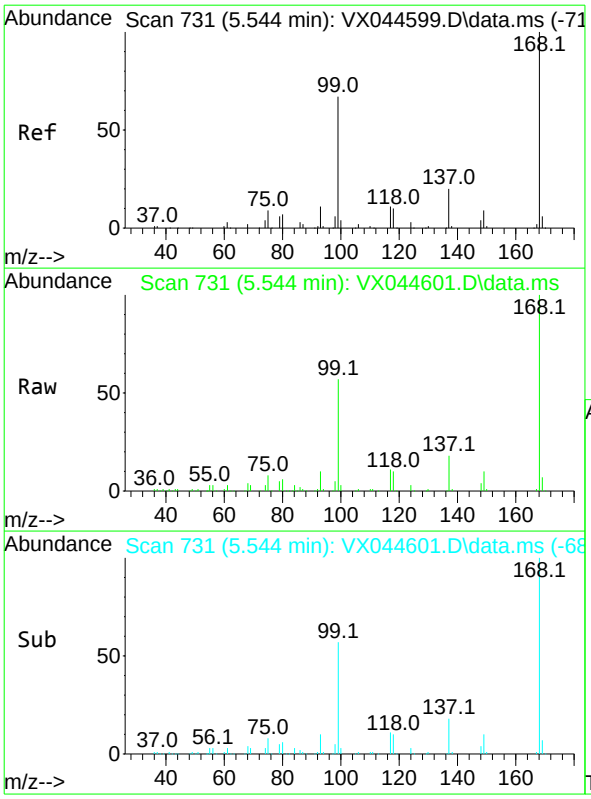
Quant Time: Jan 08 02:31:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 02:18:40 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

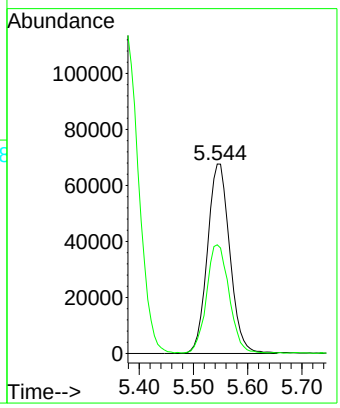




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 73
Delta R.T. -0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion:168 Resp: 193833

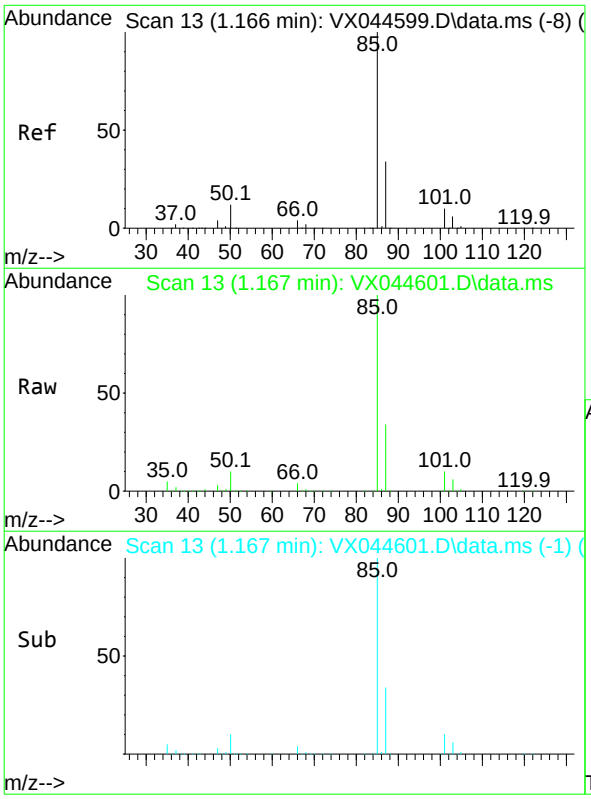
Ion	Ratio	Lower	Upper
168	100		
99	57.2	53.5	80.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

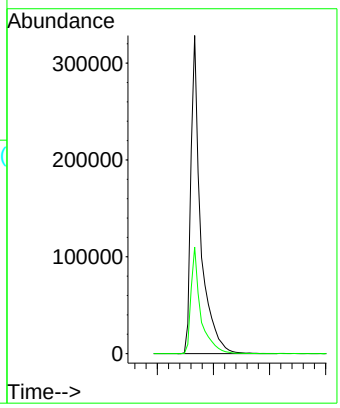
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

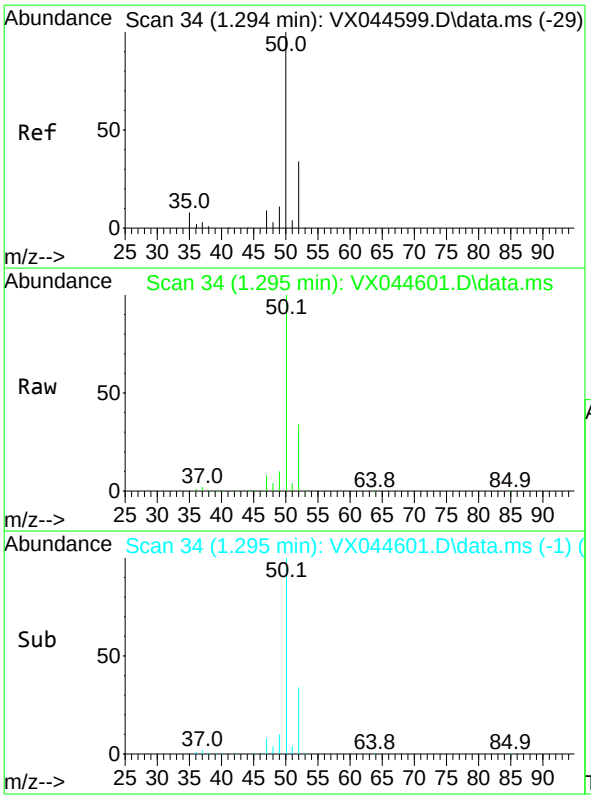


#2
Dichlorodifluoromethane
Concen: 141.444 ug/l
RT: 1.167 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 85 Resp: 396696

Ion	Ratio	Lower	Upper
85	100		
87	33.5	17.2	51.5

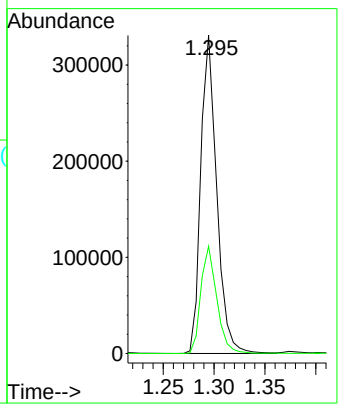




#3
Chloromethane
Concen: 129.221 ug/l
RT: 1.295 min Scan# 34
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 50 Resp: 361151

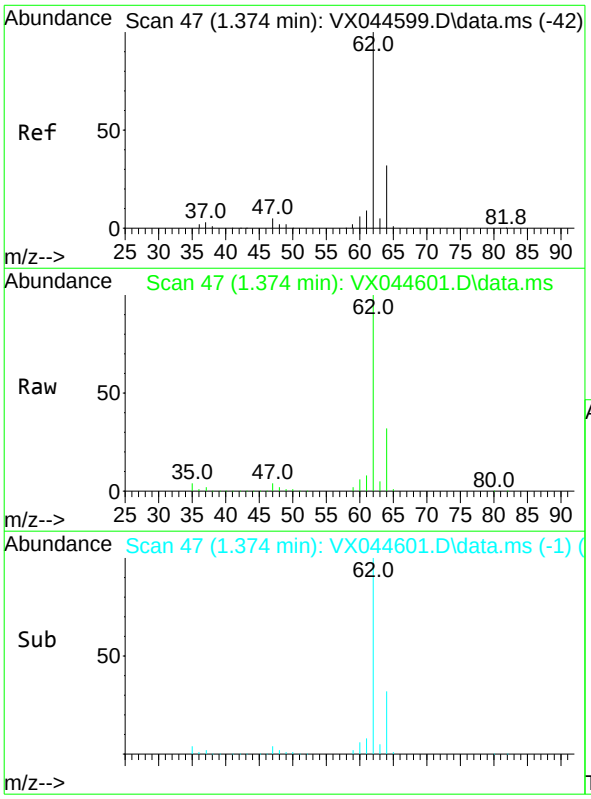
Ion	Ratio	Lower	Upper
50	100		
52	33.8	27.0	40.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

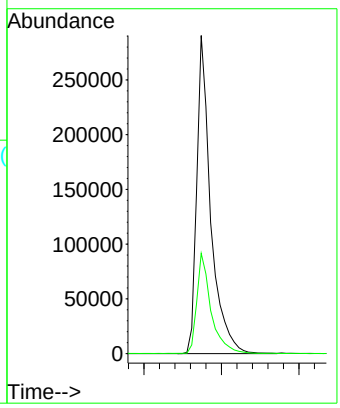
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

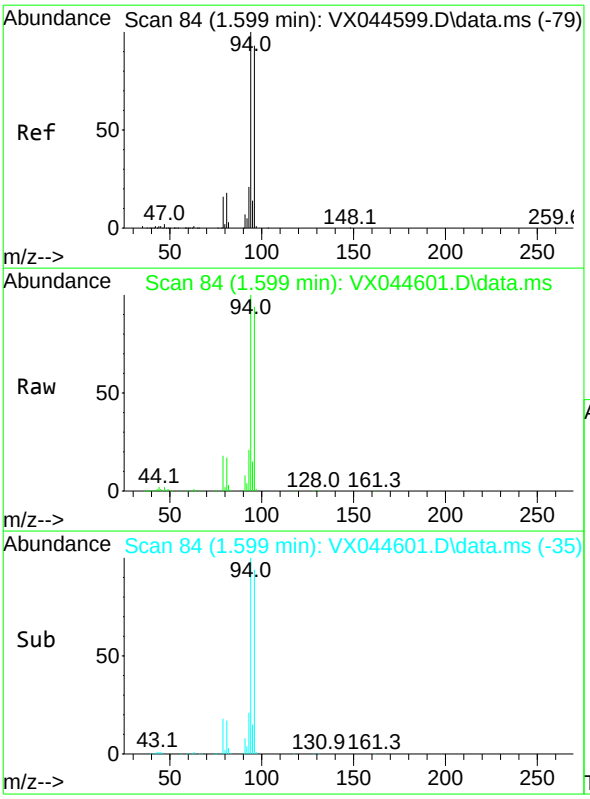


#4
Vinyl Chloride
Concen: 138.352 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 62 Resp: 362740

Ion	Ratio	Lower	Upper
62	100		
64	31.5	26.0	39.0

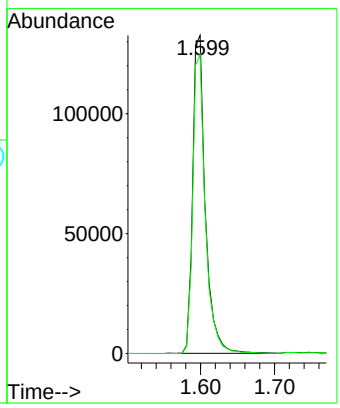




#5
Bromomethane
Concen: 115.510 ug/l
RT: 1.599 min Scan# 84
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 94 Resp: 156875

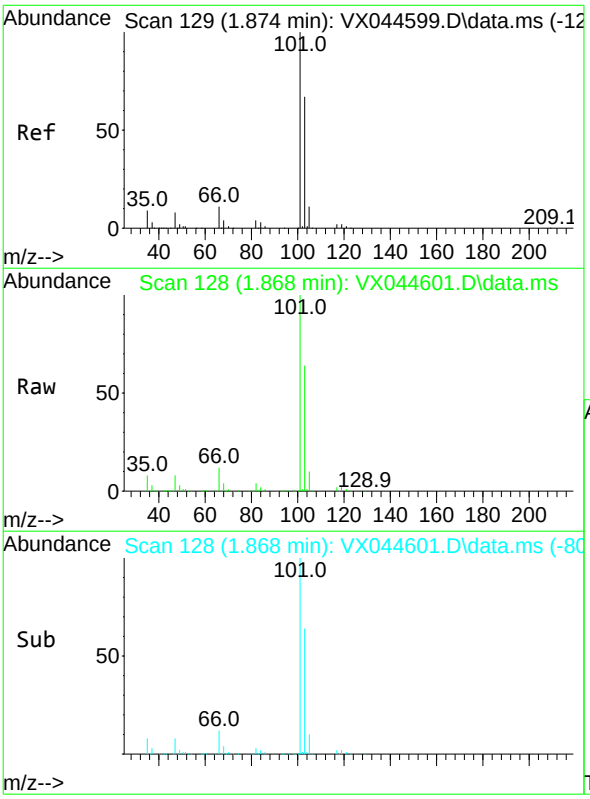
Ion	Ratio	Lower	Upper
94	100		
96	94.0	74.6	112.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

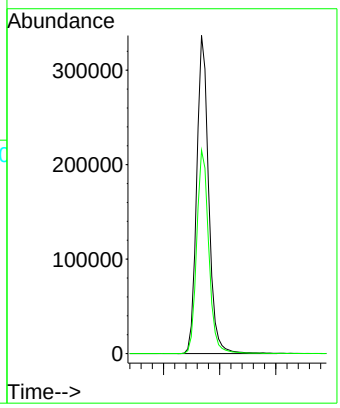
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

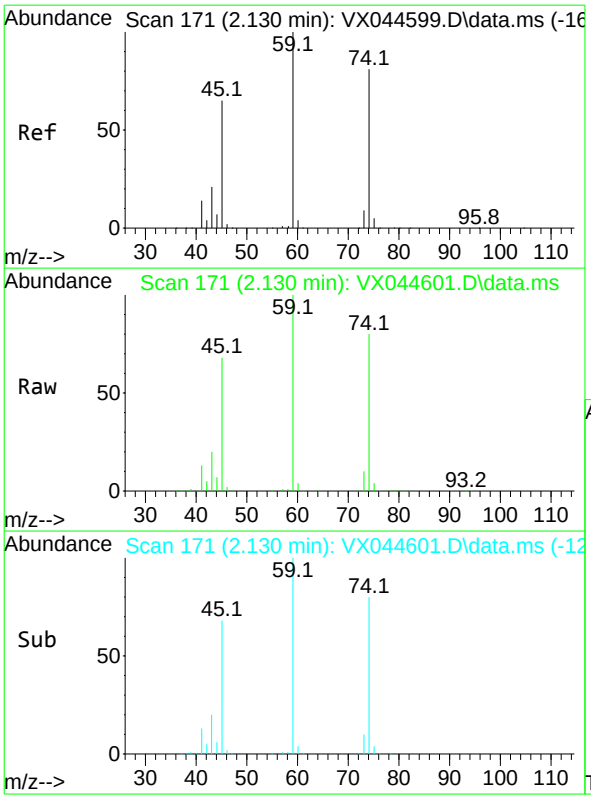


#7
Trichlorofluoromethane
Concen: 127.427 ug/l
RT: 1.868 min Scan# 128
Delta R.T. -0.006 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion:101 Resp: 497464

Ion	Ratio	Lower	Upper
101	100		
103	63.9	53.3	79.9

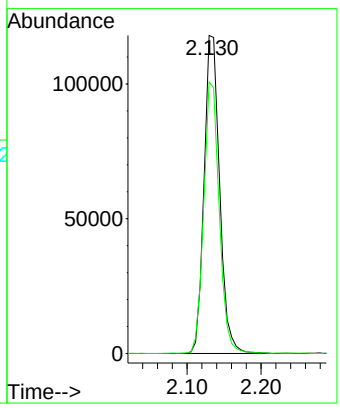




#8
Diethyl Ether
Concen: 125.105 ug/l
RT: 2.130 min Scan# 17
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 74 Resp: 172572

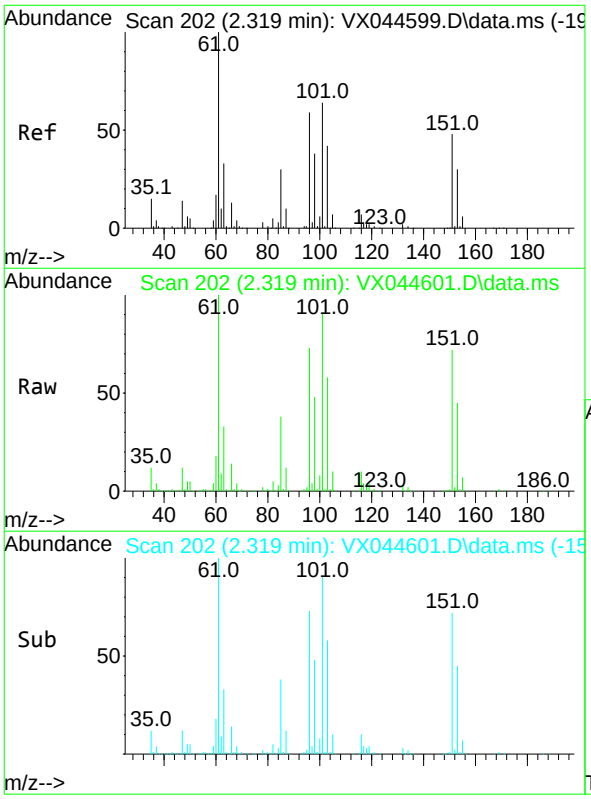
Ion	Ratio	Lower	Upper
74	100		
45	85.4	41.7	125.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

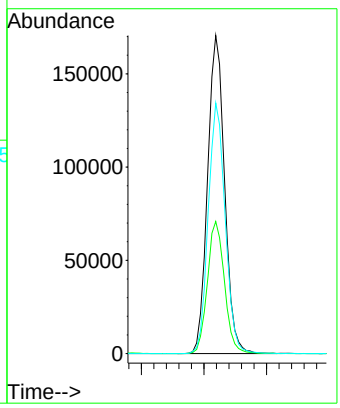
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

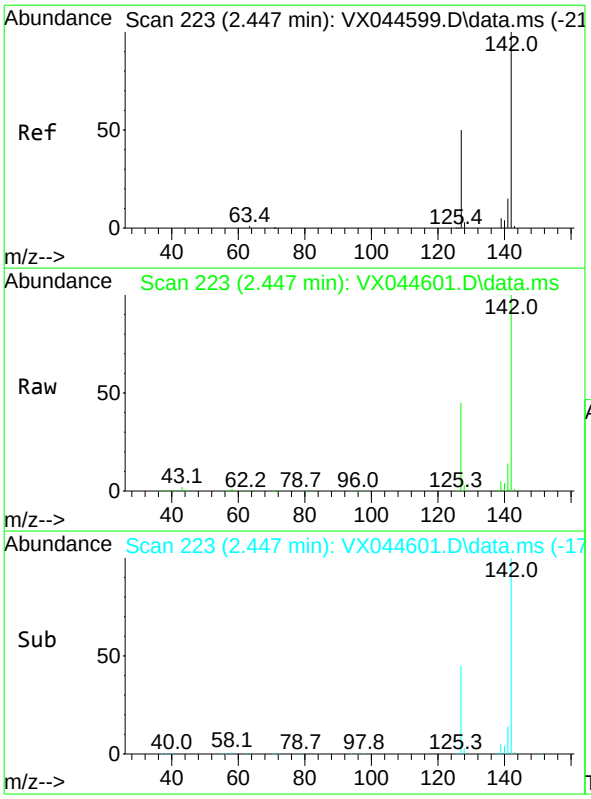


#9
1,1,2-Trichlorotrifluoroethane
Concen: 143.860 ug/l
RT: 2.319 min Scan# 202
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion:101 Resp: 322006

Ion	Ratio	Lower	Upper
101	100		
85	41.7	36.5	54.7
151	78.5	58.6	87.8

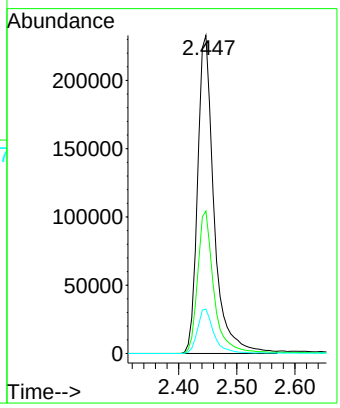




#10
Methyl Iodide
Concen: 146.920 ug/l
RT: 2.447 min Scan# 22
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion:142 Resp: 458572

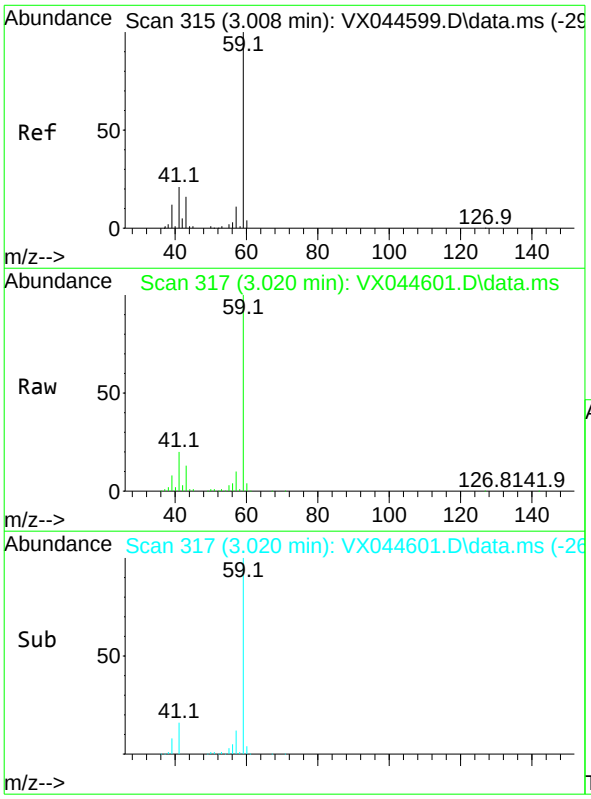
Ion	Ratio	Lower	Upper
142	100		
127	44.7	41.9	62.9
141	13.9	11.8	17.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

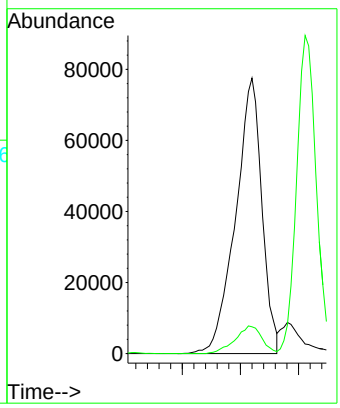
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

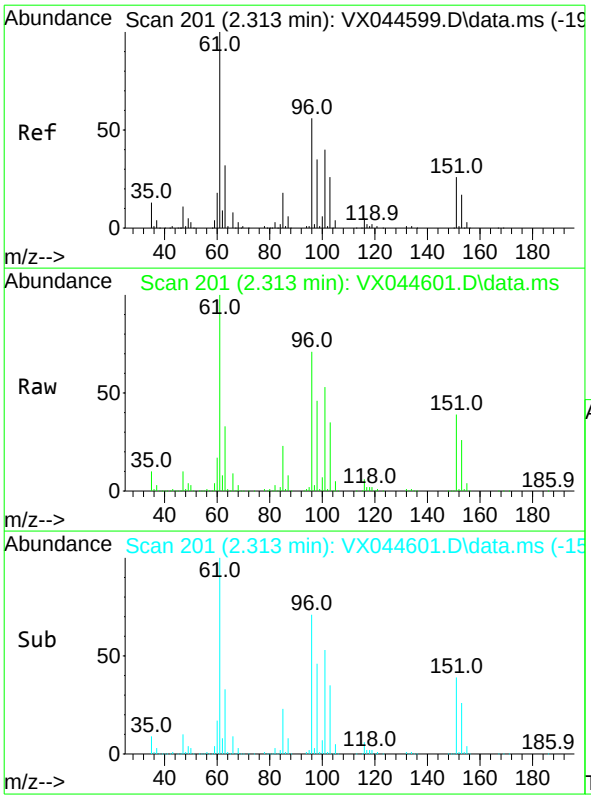


#11
Tert butyl alcohol
Concen: 632.101 ug/l
RT: 3.020 min Scan# 317
Delta R.T. 0.012 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 59 Resp: 243259

Ion	Ratio	Lower	Upper
59	100		
57	10.2	8.6	12.8

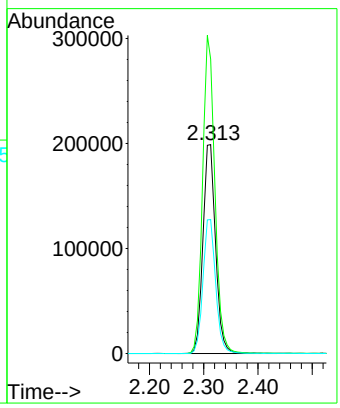




#12
1,1-Dichloroethene
Concen: 148.372 ug/l
RT: 2.313 min Scan# 20
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 96 Resp: 321732

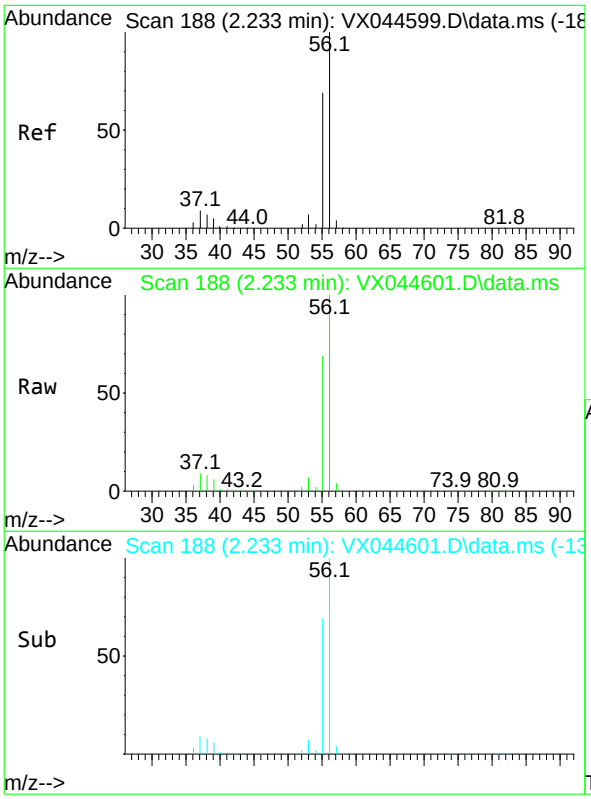
Ion	Ratio	Lower	Upper
96	100		
61	140.9	143.3	214.9#
98	64.1	50.6	76.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

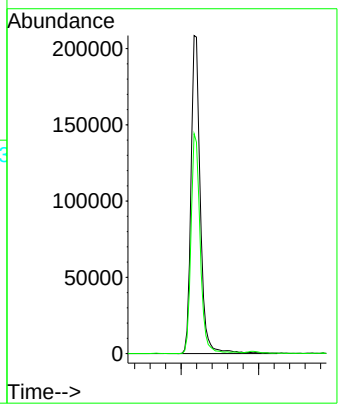
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

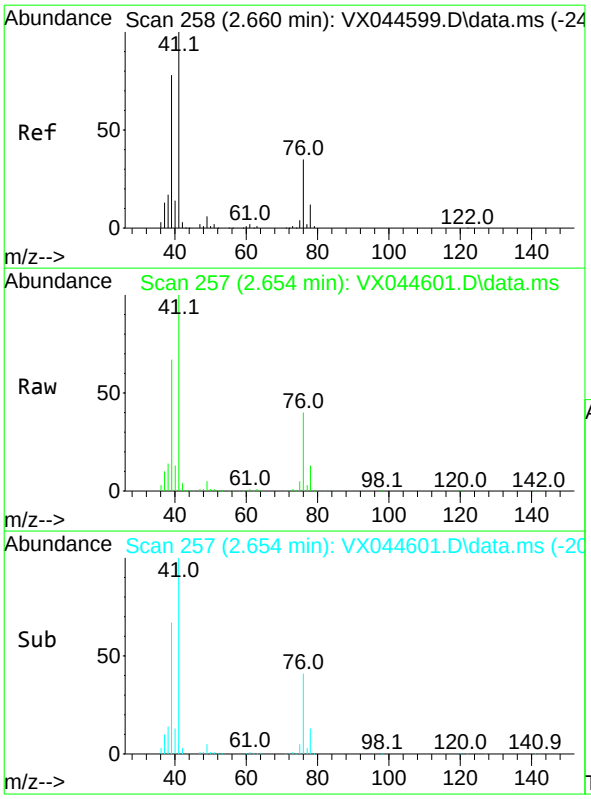


#13
Acrolein
Concen: 684.238 ug/l
RT: 2.233 min Scan# 188
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 56 Resp: 348160

Ion	Ratio	Lower	Upper
56	100		
55	68.1	55.8	83.8

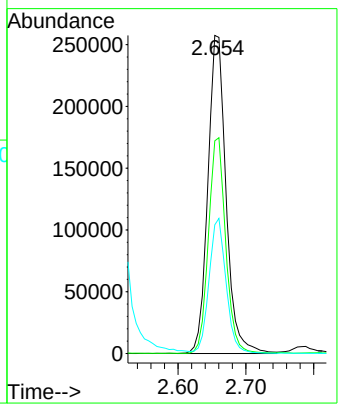




#14
Allyl chloride
Concen: 133.411 ug/l
RT: 2.654 min Scan# 25
Delta R.T. -0.006 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 41 Resp: 481127

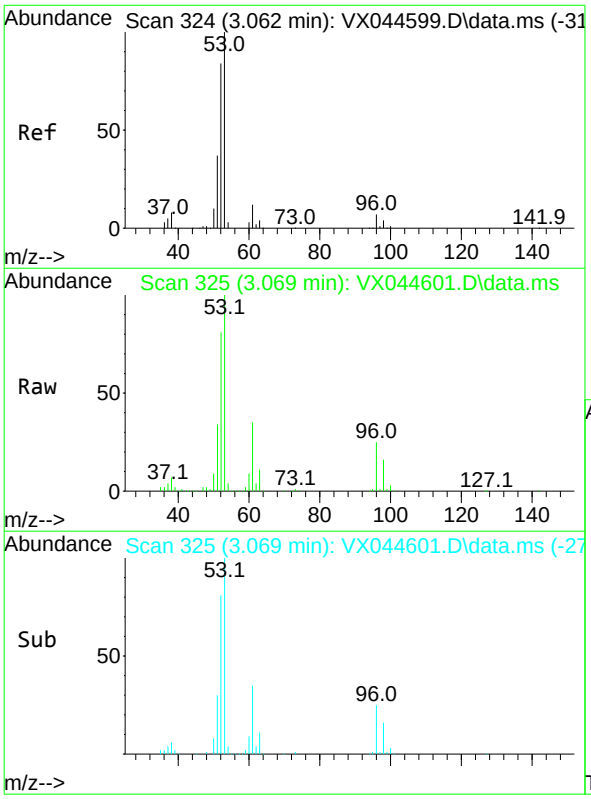
Ion	Ratio	Lower	Upper
41	100		
39	64.0	60.2	90.2
76	39.6	25.9	38.9#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

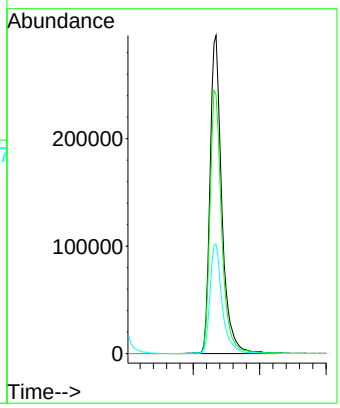
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

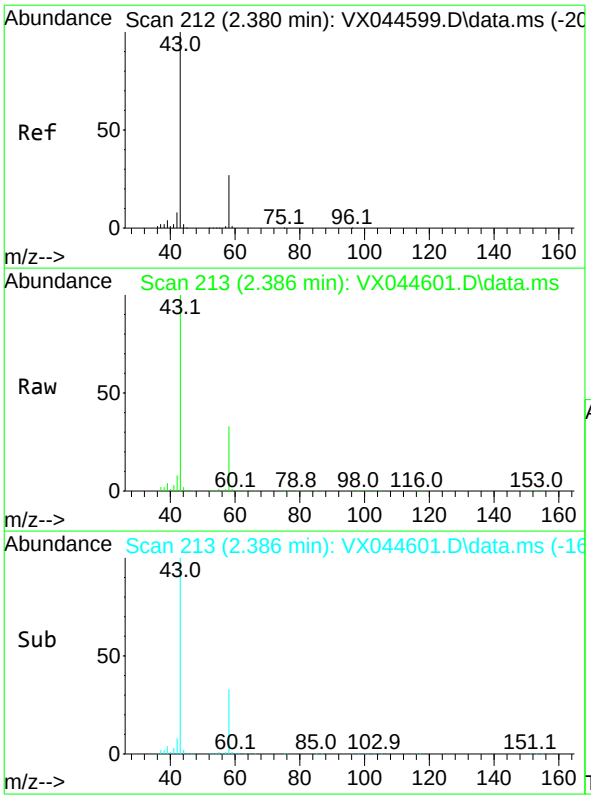


#15
Acrylonitrile
Concen: 658.245 ug/l
RT: 3.069 min Scan# 325
Delta R.T. 0.006 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 53 Resp: 729569

Ion	Ratio	Lower	Upper
53	100		
52	81.6	67.0	100.6
51	35.6	29.4	44.0

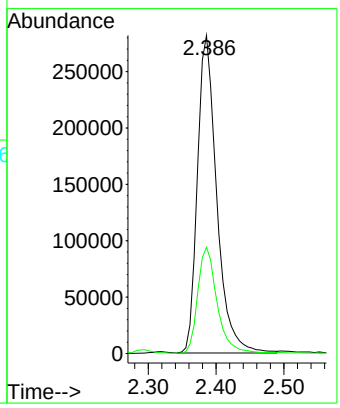




#16
Acetone
Concen: 566.340 ug/l
RT: 2.386 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 43 Resp: 557867

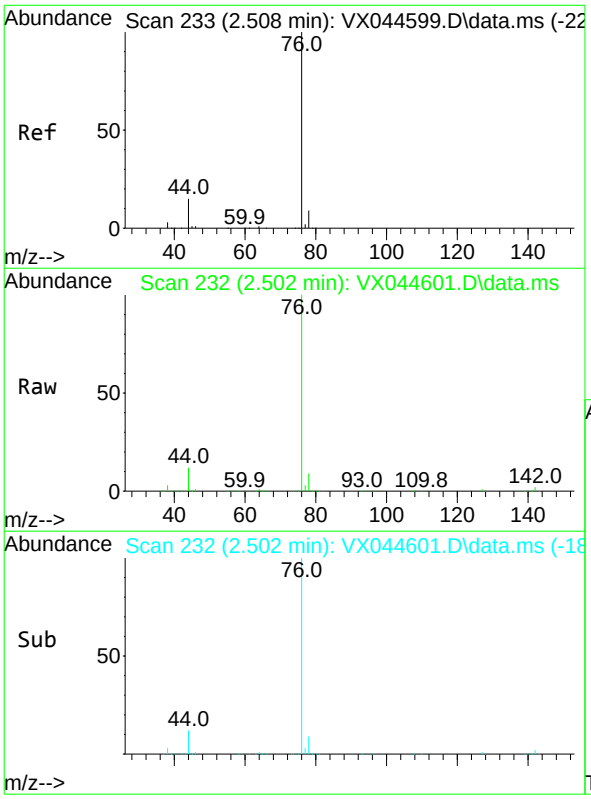
Ion	Ratio	Lower	Upper
43	100		
58	33.3	22.0	33.0#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

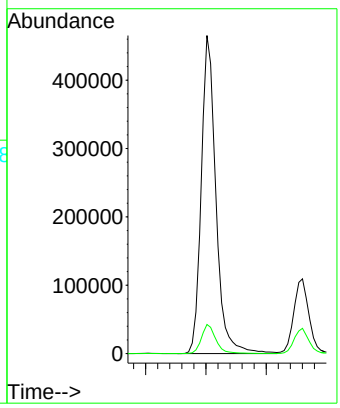
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

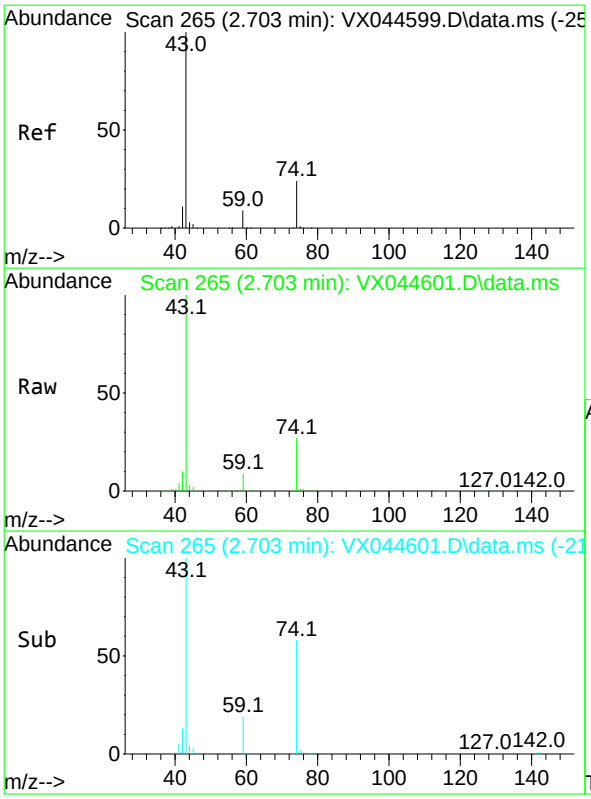


#17
Carbon Disulfide
Concen: 175.284 ug/l
RT: 2.502 min Scan# 232
Delta R.T. -0.006 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 76 Resp: 785944

Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.1	10.7

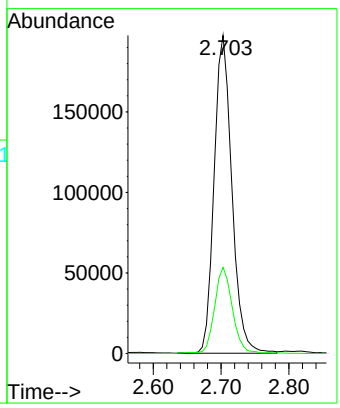




#18
Methyl Acetate
Concen: 123.407 ug/l
RT: 2.703 min Scan# 26
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 43 Resp: 358794

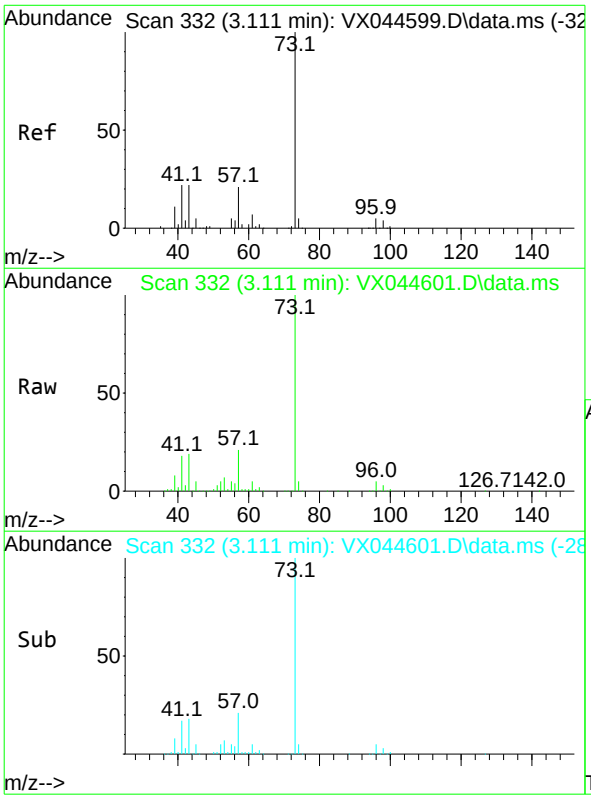
Ion	Ratio	Lower	Upper
43	100		
74	27.4	19.3	28.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

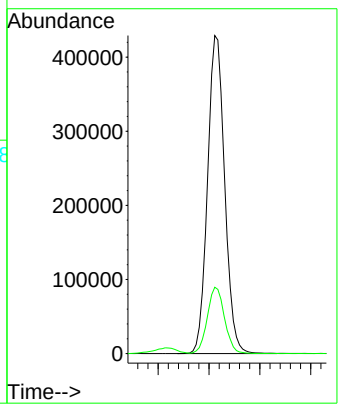
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

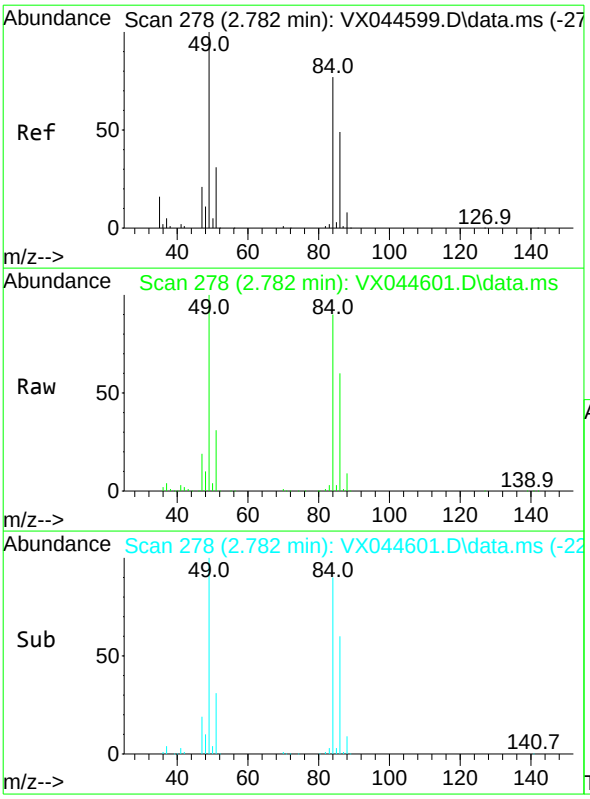


#19
Methyl tert-butyl Ether
Concen: 135.096 ug/l
RT: 3.111 min Scan# 332
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 73 Resp: 1003928

Ion	Ratio	Lower	Upper
73	100		
57	20.8	17.0	25.4

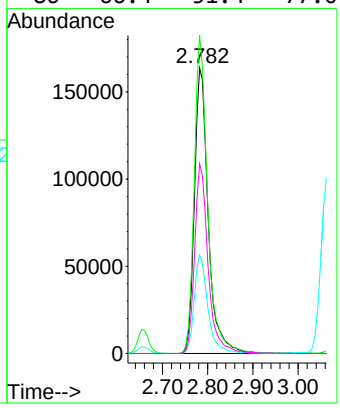




#20
Methylene Chloride
Concen: 138.392 ug/l
RT: 2.782 min Scan# 27
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 84 Resp: 347783

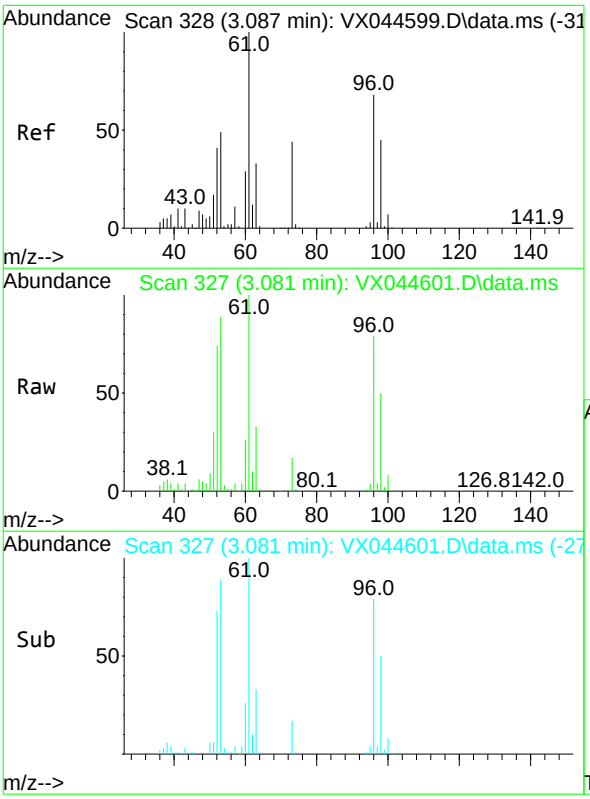
Ion	Ratio	Lower	Upper
84	100		
49	111.4	104.4	156.6
51	34.5	32.0	48.0
86	66.4	51.4	77.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

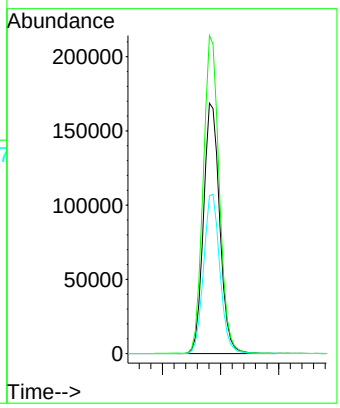
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

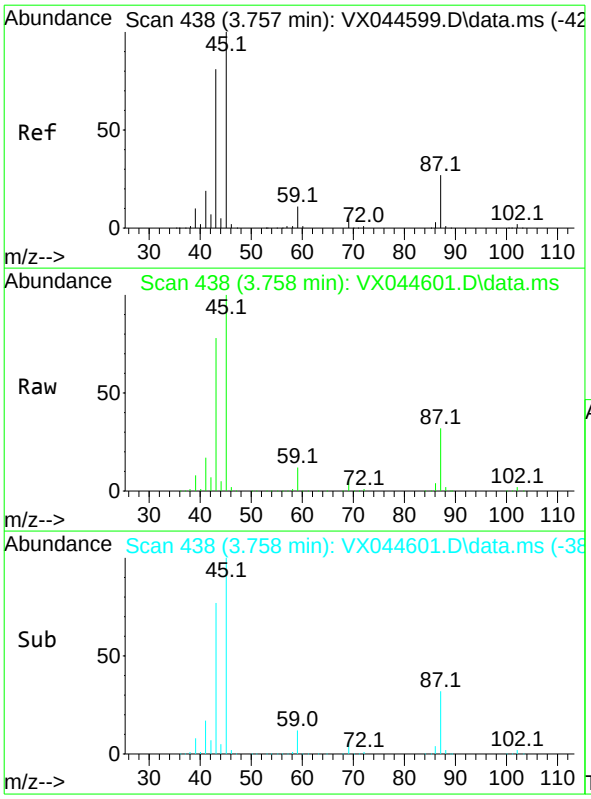


#21
trans-1,2-Dichloroethene
Concen: 146.862 ug/l
RT: 3.081 min Scan# 327
Delta R.T. -0.006 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 96 Resp: 326842

Ion	Ratio	Lower	Upper
96	100		
61	126.9	118.5	177.7
98	63.1	53.4	80.0

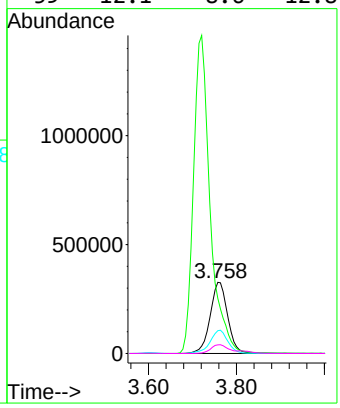




#22
Diisopropyl ether
Concen: 121.714 ug/l
RT: 3.758 min Scan# 43
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 45 Resp: 902333

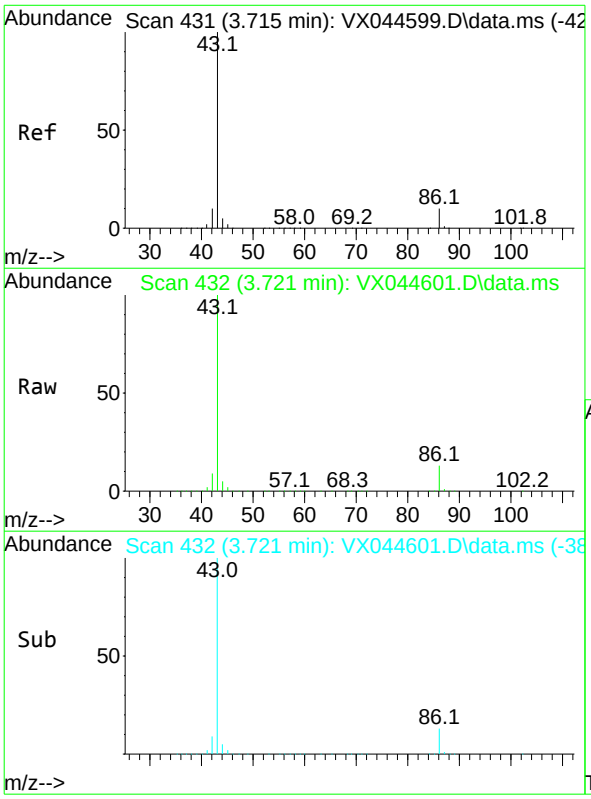
Ion	Ratio	Lower	Upper
45	100		
43	77.4	64.6	97.0
87	32.0	21.8	32.8
59	12.1	8.6	12.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

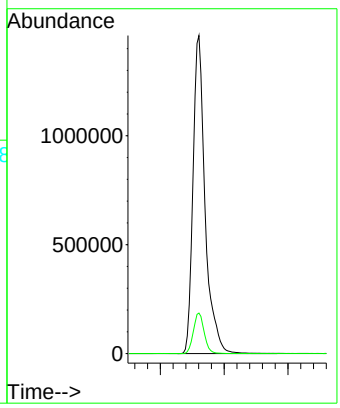
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

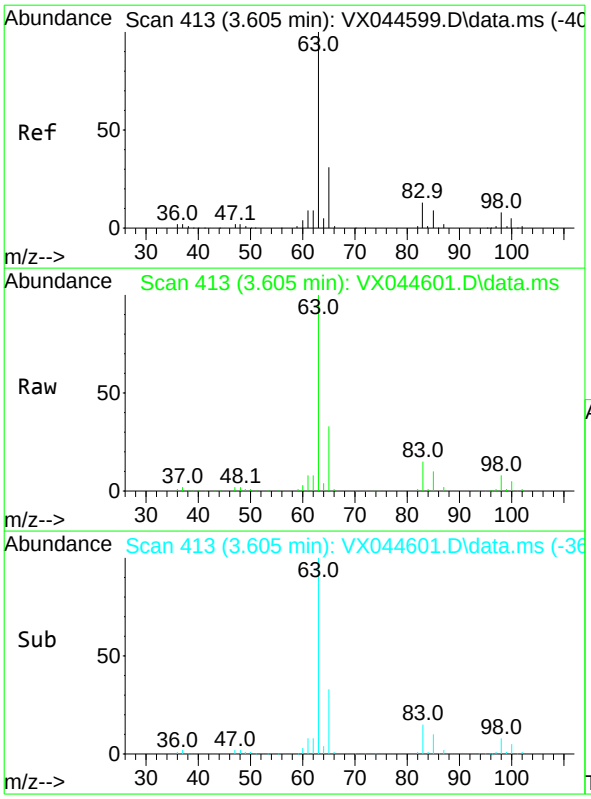


#23
Vinyl Acetate
Concen: 641.181 ug/l
RT: 3.721 min Scan# 432
Delta R.T. 0.006 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 43 Resp: 3843854

Ion	Ratio	Lower	Upper
43	100		
86	12.7	8.1	12.1#

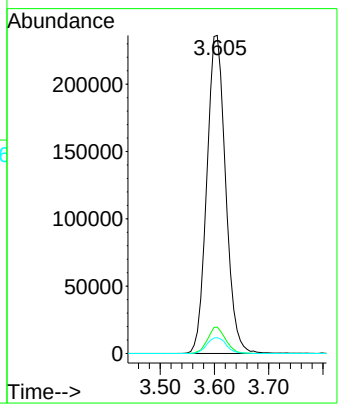




#24
1,1-Dichloroethane
Concen: 131.892 ug/l
RT: 3.605 min Scan# 41
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 63 Resp: 569743

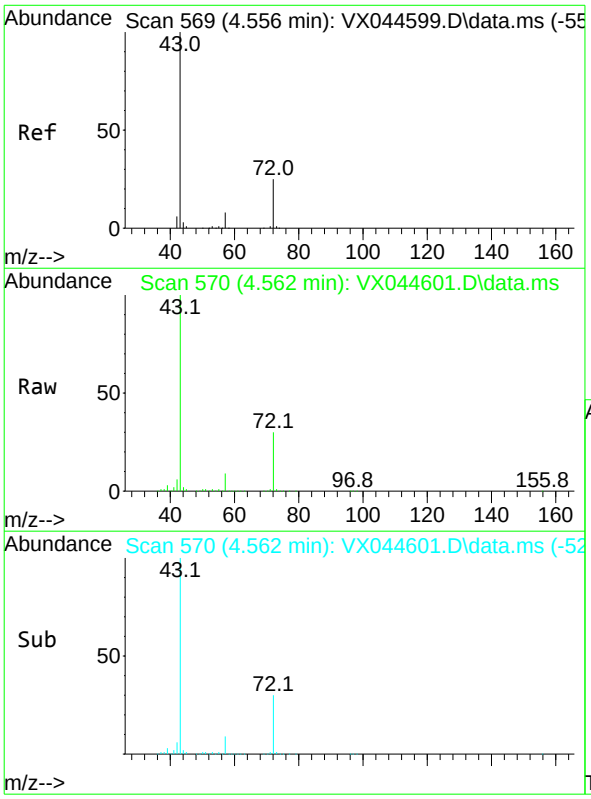
Ion	Ratio	Lower	Upper
63	100		
98	8.3	3.8	11.4
100	5.0	2.4	7.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

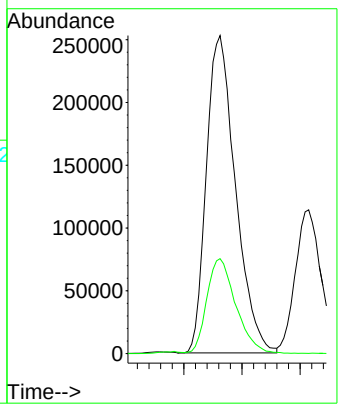
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

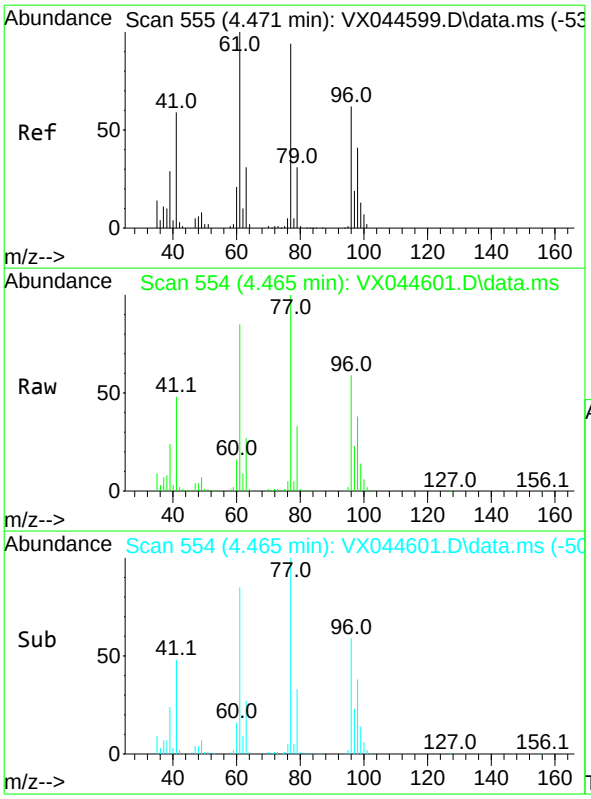


#25
2-Butanone
Concen: 619.080 ug/l
RT: 4.562 min Scan# 570
Delta R.T. 0.006 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 43 Resp: 880207

Ion	Ratio	Lower	Upper
43	100		
72	29.5	20.2	30.2

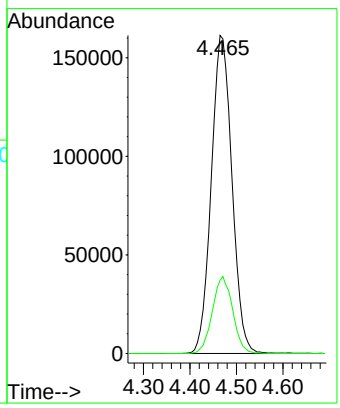




#26
2,2-Dichloropropane
Concen: 133.162 ug/l
RT: 4.465 min Scan# 55
Delta R.T. -0.006 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 77 Resp: 497336

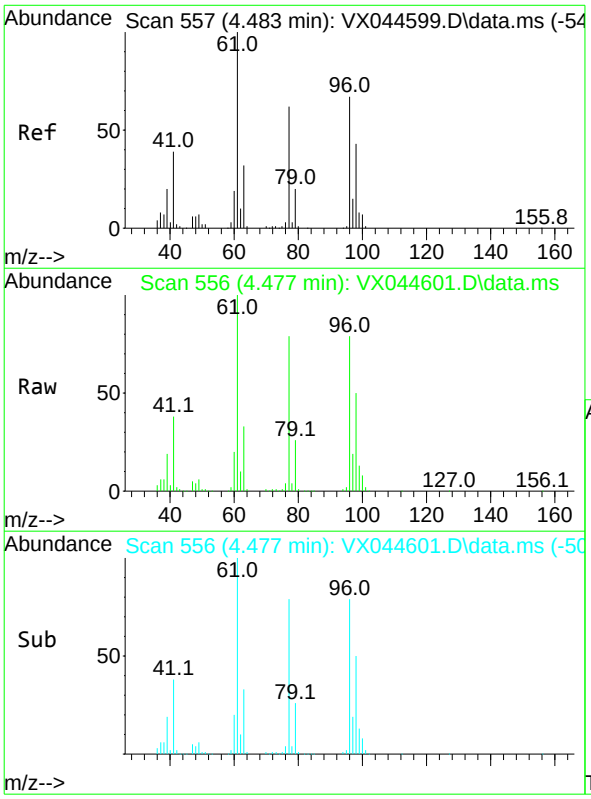
Ion	Ratio	Lower	Upper
77	100		
97	23.8	10.7	32.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

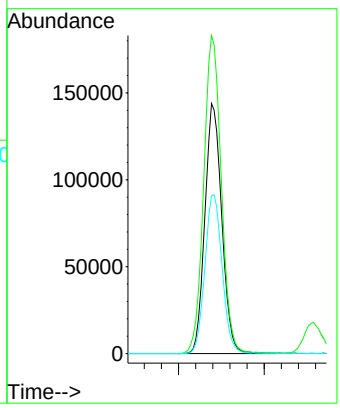
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

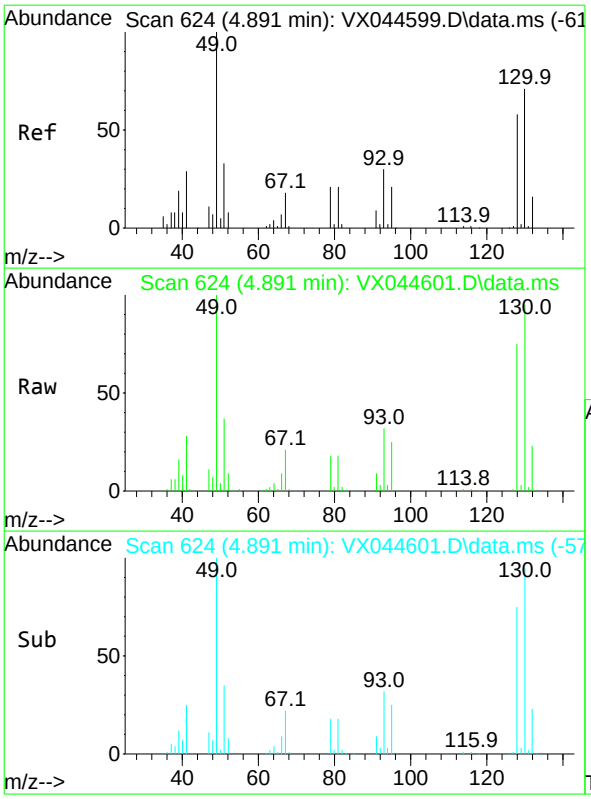


#27
cis-1,2-Dichloroethene
Concen: 145.402 ug/l
RT: 4.477 min Scan# 556
Delta R.T. -0.006 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 96 Resp: 394578

Ion	Ratio	Lower	Upper
96	100		
61	132.1	0.0	302.8
98	64.8	0.0	130.0

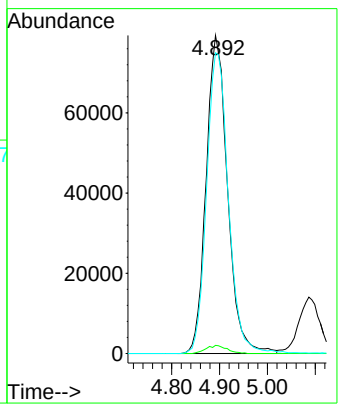




#28
Bromochloromethane
Concen: 122.401 ug/l
RT: 4.891 min Scan# 62
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 49 Resp: 246126

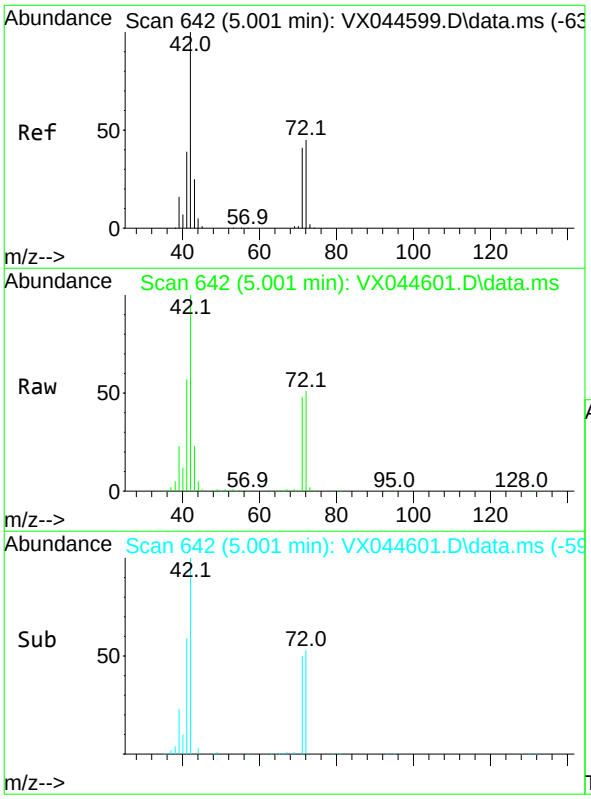
Ion	Ratio	Lower	Upper
49	100		
129	2.5	0.0	4.2
130	96.4	58.8	88.2#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

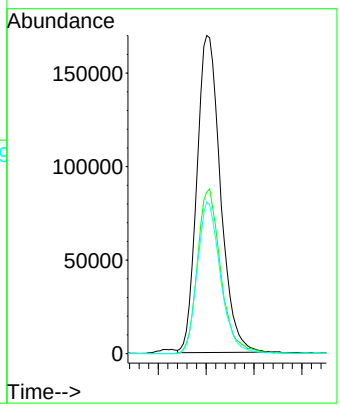
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

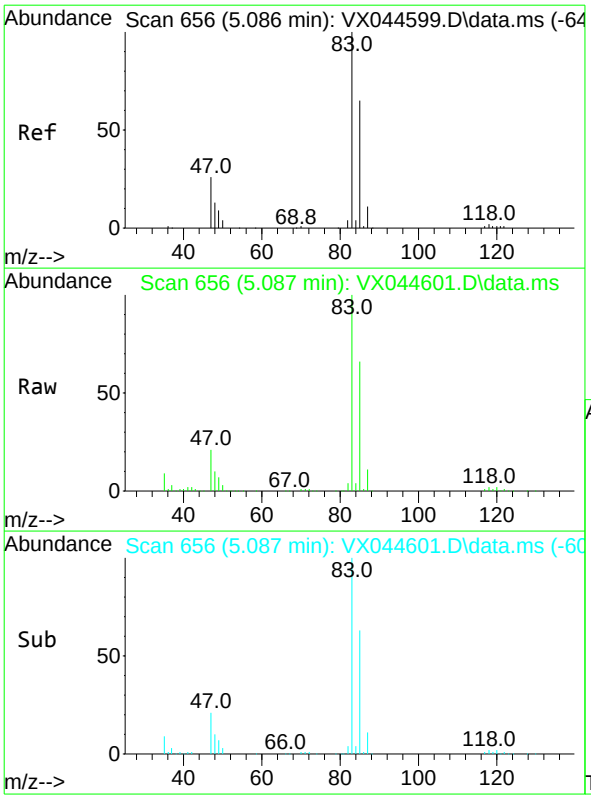


#29
Tetrahydrofuran
Concen: 595.793 ug/l
RT: 5.001 min Scan# 642
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 42 Resp: 580089

Ion	Ratio	Lower	Upper
42	100		
72	51.4	36.1	54.1
71	47.1	33.0	49.6

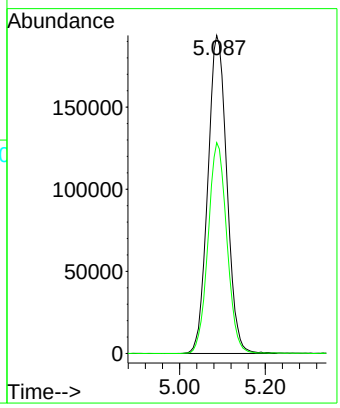




#30
Chloroform
Concen: 128.421 ug/l
RT: 5.087 min Scan# 65
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 83 Resp: 598049

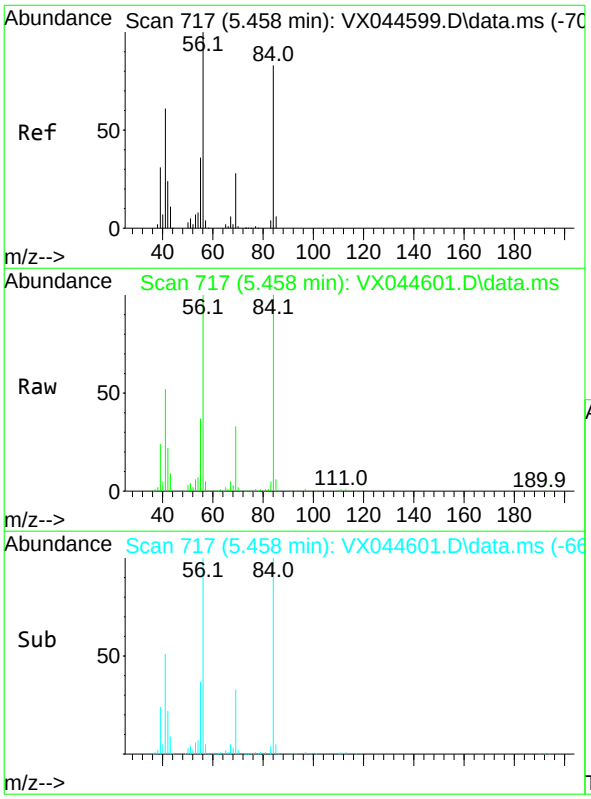
Ion	Ratio	Lower	Upper
83	100		
85	66.3	52.3	78.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

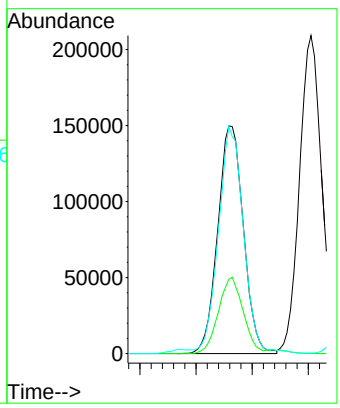
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

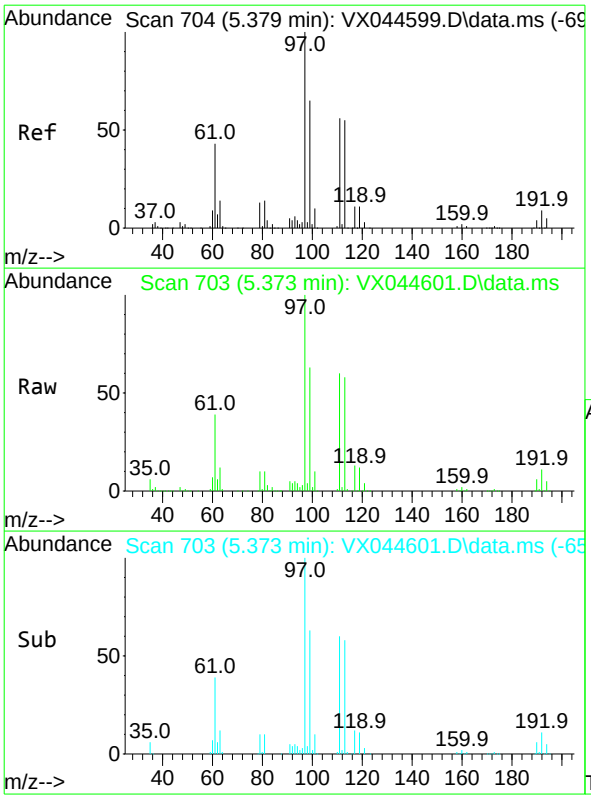


#31
Cyclohexane
Concen: 134.163 ug/l
RT: 5.458 min Scan# 717
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 56 Resp: 475840

Ion	Ratio	Lower	Upper
56	100		
69	32.7	22.2	33.4
84	98.3	66.6	100.0

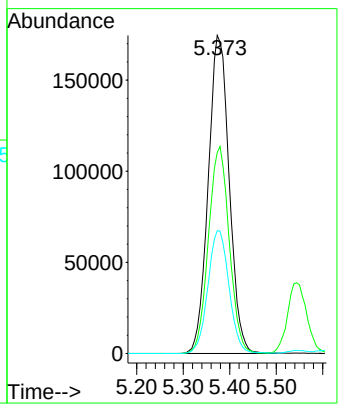




#32
1,1,1-Trichloroethane
Concen: 139.254 ug/l
RT: 5.373 min Scan# 70
Delta R.T. -0.006 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 97 Resp: 545752

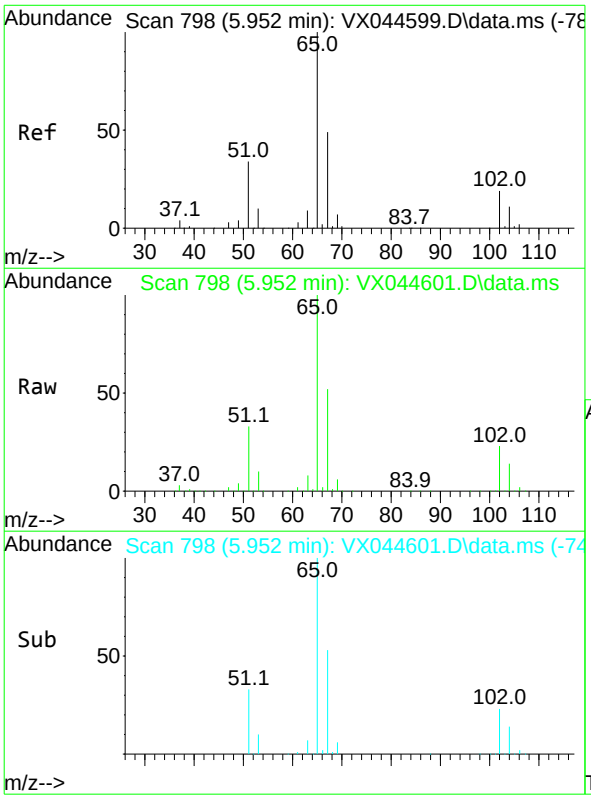
Ion	Ratio	Lower	Upper
97	100		
99	64.7	52.1	78.1
61	39.0	36.8	55.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

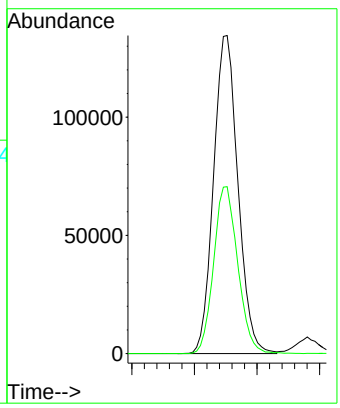
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

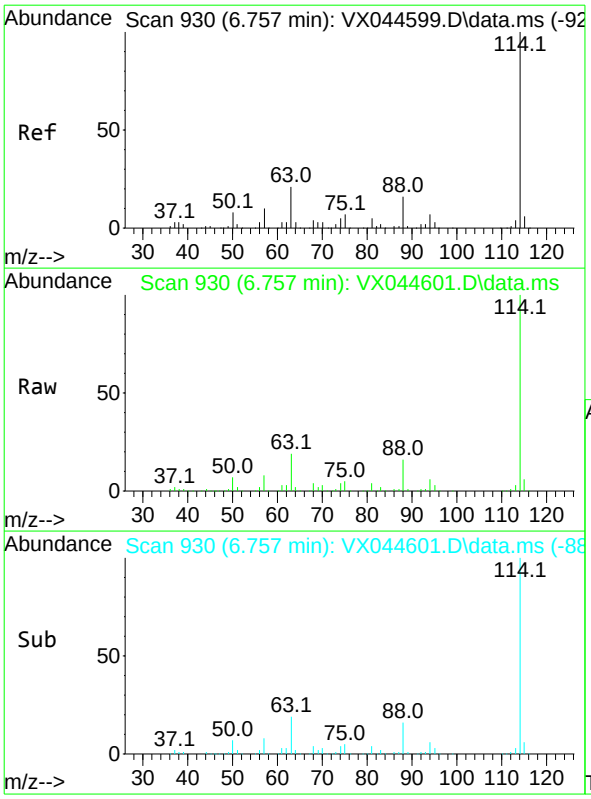


#33
1,2-Dichloroethane-d4
Concen: 116.405 ug/l
RT: 5.952 min Scan# 798
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 65 Resp: 363804

Ion	Ratio	Lower	Upper
65	100		
67	51.9	0.0	99.0

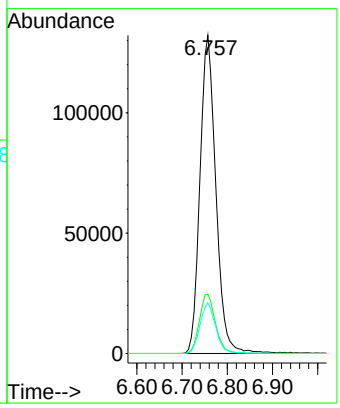




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 93
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion:114 Resp: 322230

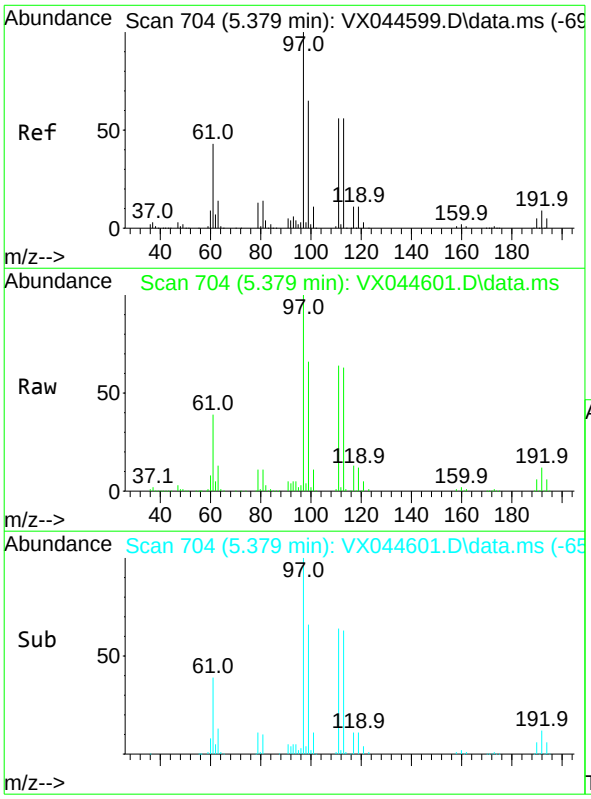
Ion	Ratio	Lower	Upper
114	100		
63	18.7	0.0	42.6
88	16.0	0.0	32.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

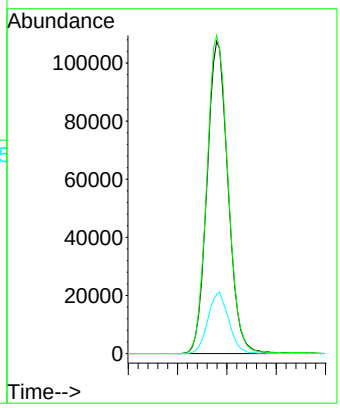
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

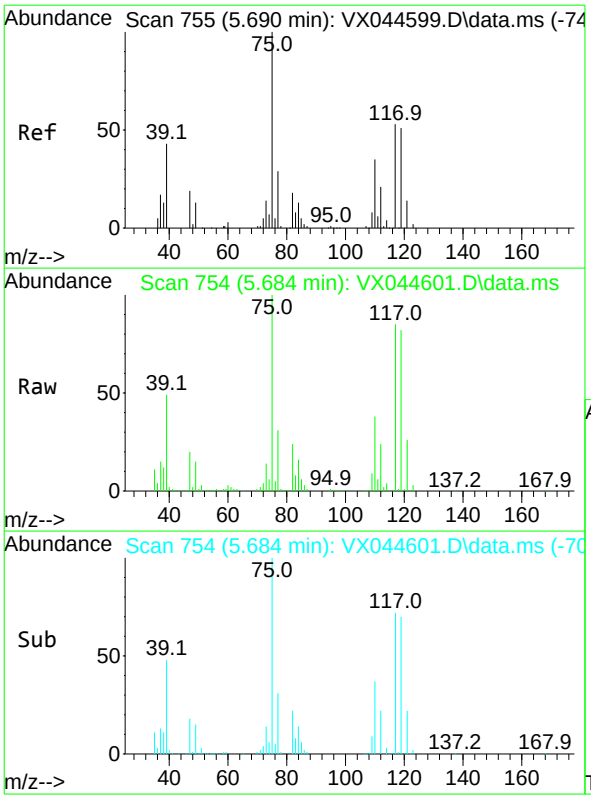


#35
Dibromofluoromethane
Concen: 144.173 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion:113 Resp: 318562

Ion	Ratio	Lower	Upper
113	100		
111	102.8	83.3	124.9
192	19.5	14.3	21.5

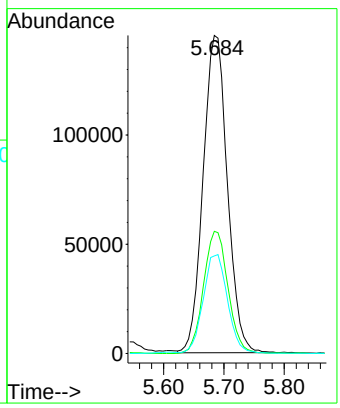




#36
1,1-Dichloropropene
Concen: 142.120 ug/l
RT: 5.684 min Scan# 75
Delta R.T. -0.006 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 75 Resp: 406061

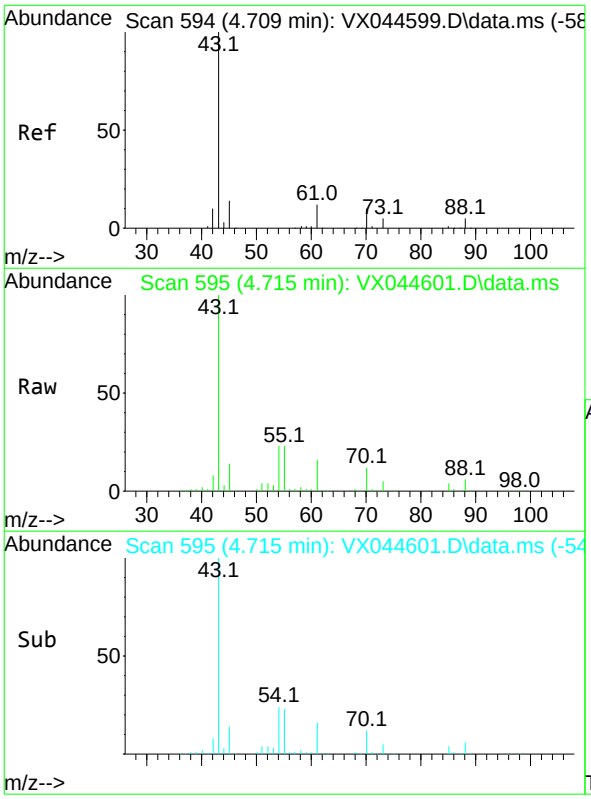
Ion	Ratio	Lower	Upper
75	100		
110	38.8	17.3	51.9
77	31.1	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

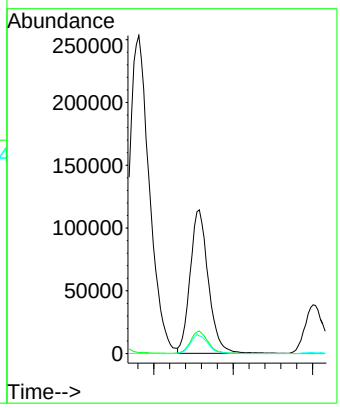
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

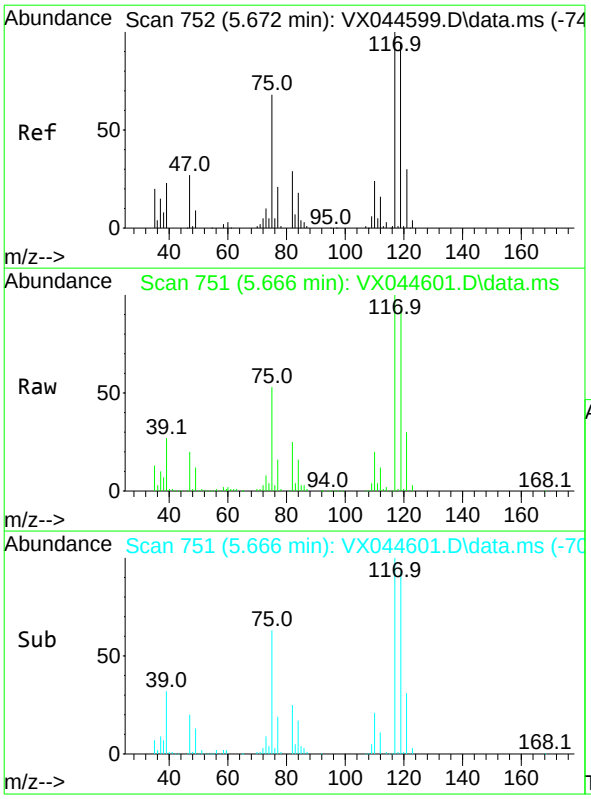


#37
Ethyl Acetate
Concen: 124.576 ug/l
RT: 4.715 min Scan# 595
Delta R.T. 0.006 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 43 Resp: 363828

Ion	Ratio	Lower	Upper
43	100		
61	14.6	9.9	14.9
70	12.6	8.0	12.0#

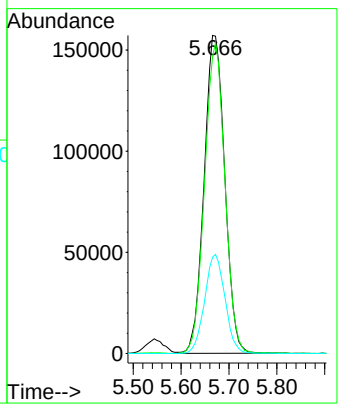




#38
Carbon Tetrachloride
Concen: 148.724 ug/l
RT: 5.666 min Scan# 75
Delta R.T. -0.006 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion:117 Resp: 471467

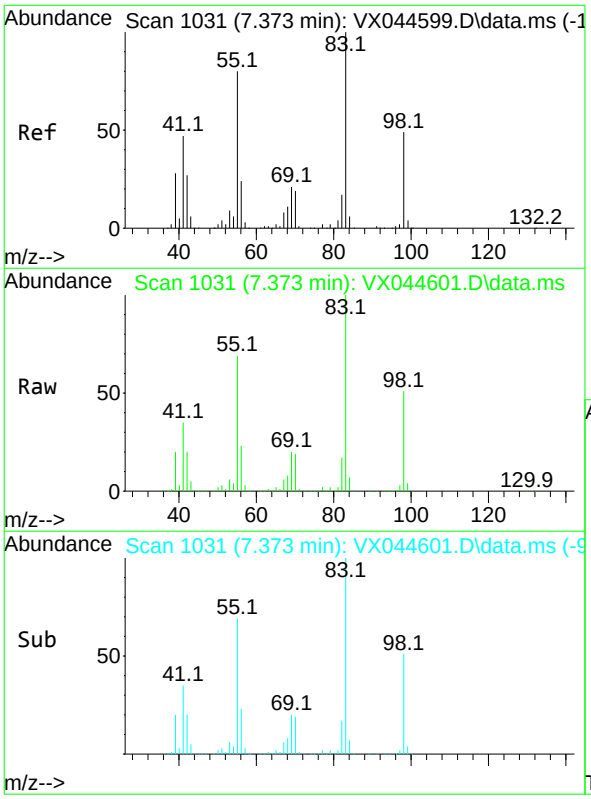
Ion	Ratio	Lower	Upper
117	100		
119	93.4	74.5	111.7
121	30.3	24.1	36.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

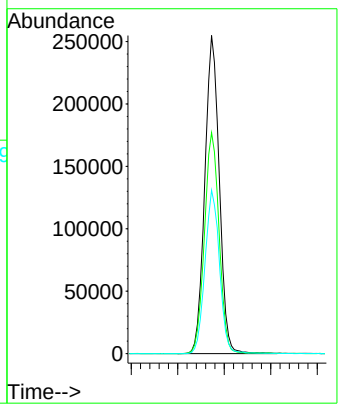
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

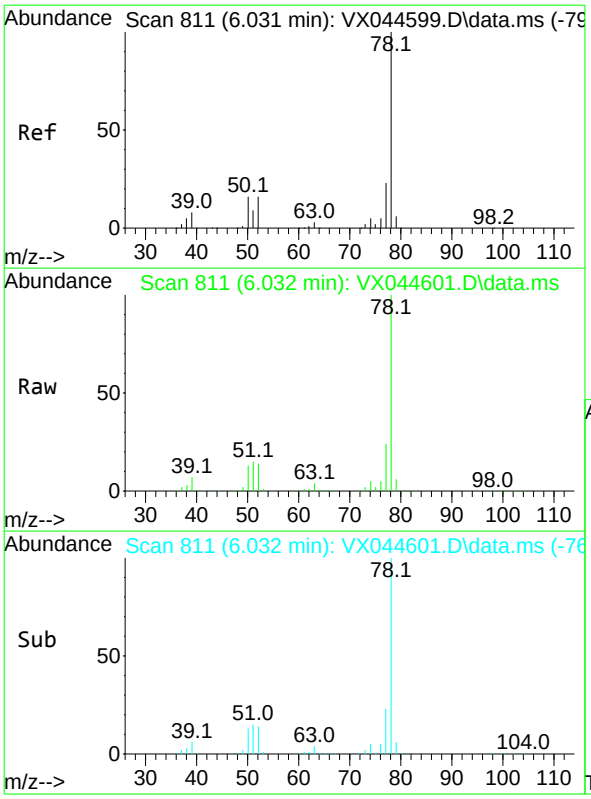


#39
Methylcyclohexane
Concen: 151.439 ug/l
RT: 7.373 min Scan# 1031
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 83 Resp: 552098

Ion	Ratio	Lower	Upper
83	100		
55	69.5	64.1	96.1
98	51.4	38.9	58.3

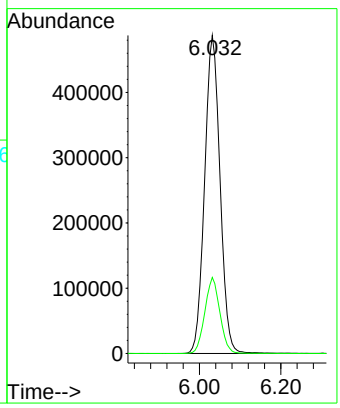




#40
Benzene
Concen: 142.310 ug/l
RT: 6.032 min Scan# 81
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 78 Resp: 1280226

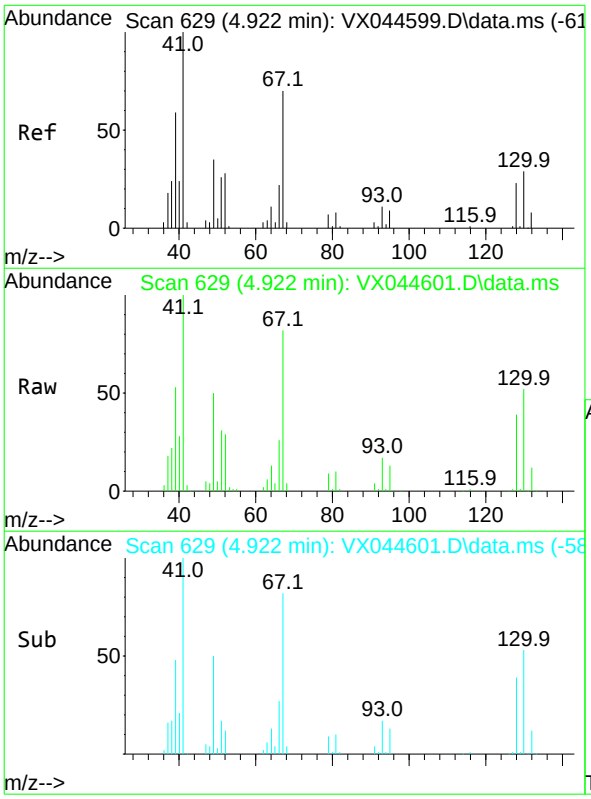
Ion	Ratio	Lower	Upper
78	100		
77	23.9	18.8	28.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

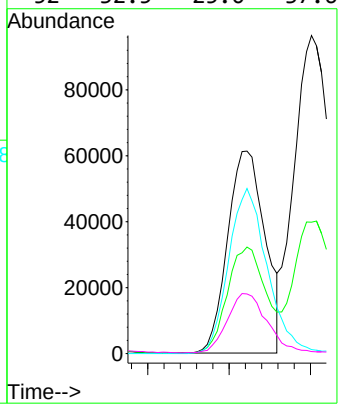
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

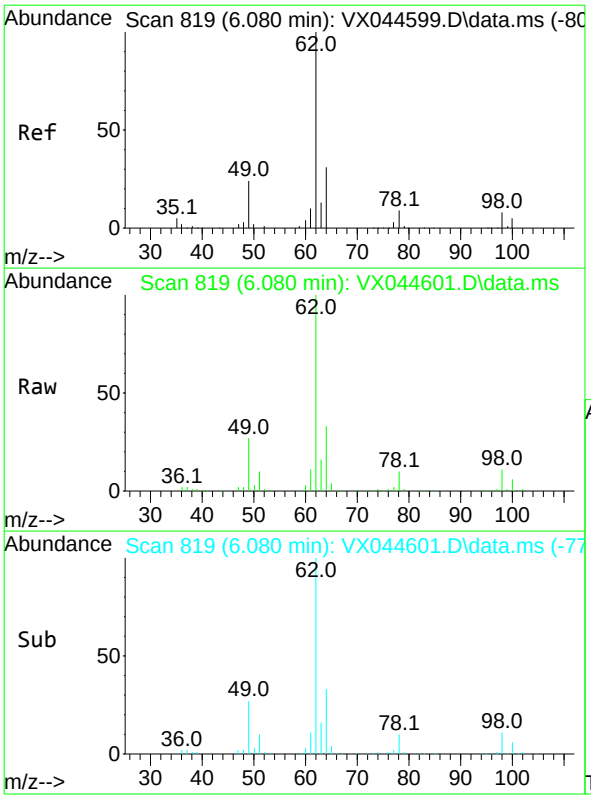


#41
Methacrylonitrile
Concen: 125.194 ug/l
RT: 4.922 min Scan# 629
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 41 Resp: 196413

Ion	Ratio	Lower	Upper
41	100		
39	53.1	47.0	70.4
67	84.4	57.4	86.2
52	32.5	25.0	37.6

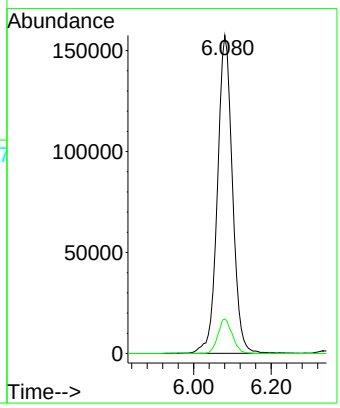




#42
1,2-Dichloroethane
Concen: 120.148 ug/l
RT: 6.080 min Scan# 81
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 62 Resp: 422697

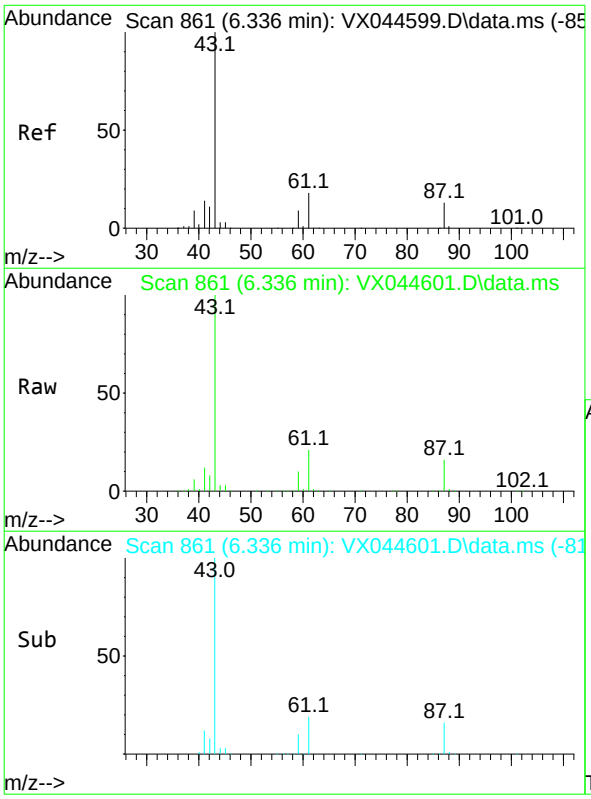
Ion	Ratio	Lower	Upper
62	100		
98	10.4	0.0	15.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

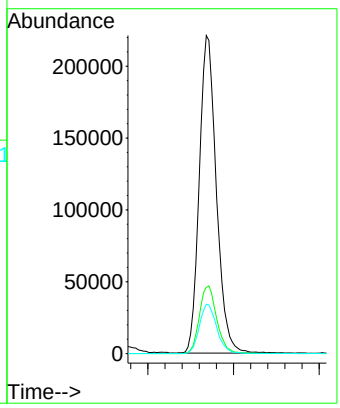
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

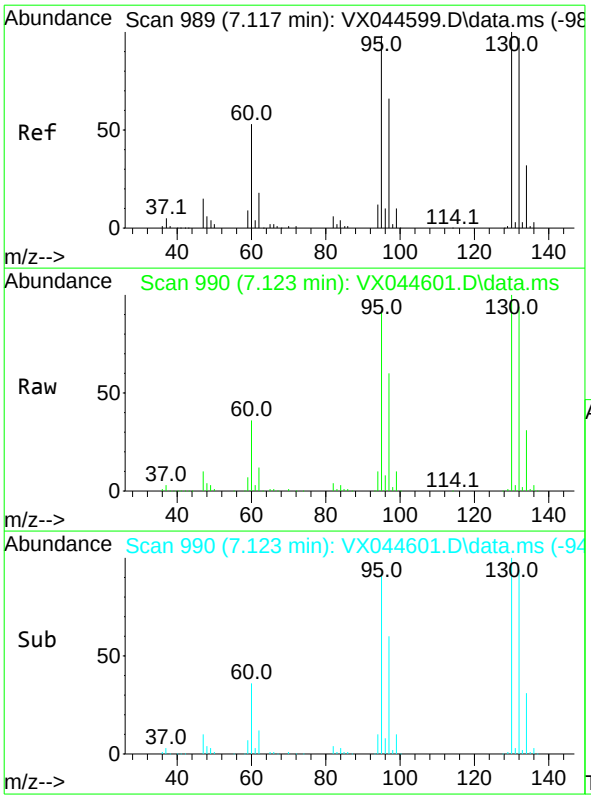


#43
Isopropyl Acetate
Concen: 126.783 ug/l
RT: 6.336 min Scan# 861
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 43 Resp: 611339

Ion	Ratio	Lower	Upper
43	100		
61	21.6	14.5	21.7
87	15.8	10.1	15.1#

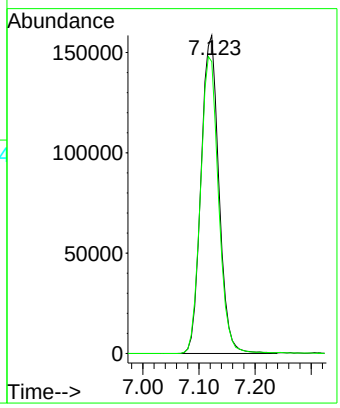




#44
Trichloroethene
Concen: 152.030 ug/l
RT: 7.123 min Scan# 99
Delta R.T. 0.006 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion:130 Resp: 349611

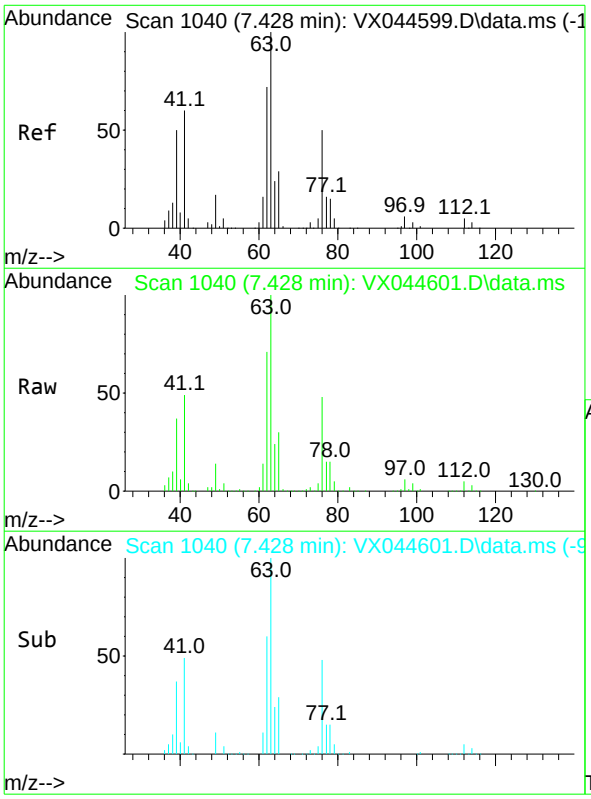
Ion	Ratio	Lower	Upper
130	100		
95	91.8	0.0	195.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

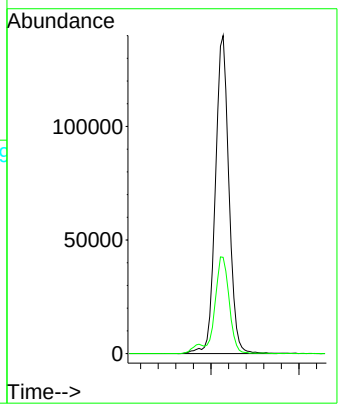
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

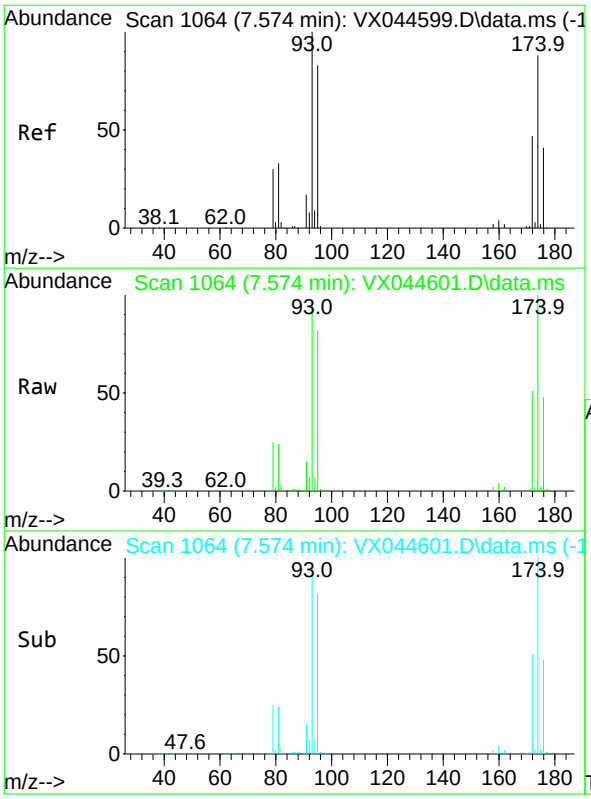


#45
1,2-Dichloropropane
Concen: 136.469 ug/l
RT: 7.428 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 63 Resp: 299322

Ion	Ratio	Lower	Upper
63	100		
65	30.3	23.0	34.4

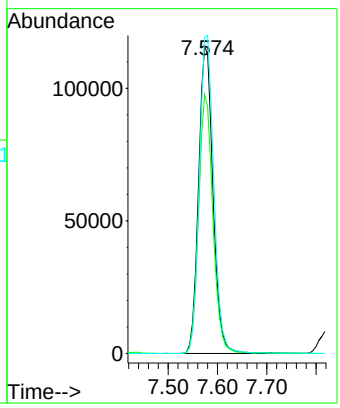




#46
Dibromomethane
Concen: 138.350 ug/l
RT: 7.574 min Scan# 10
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 93 Resp: 235994

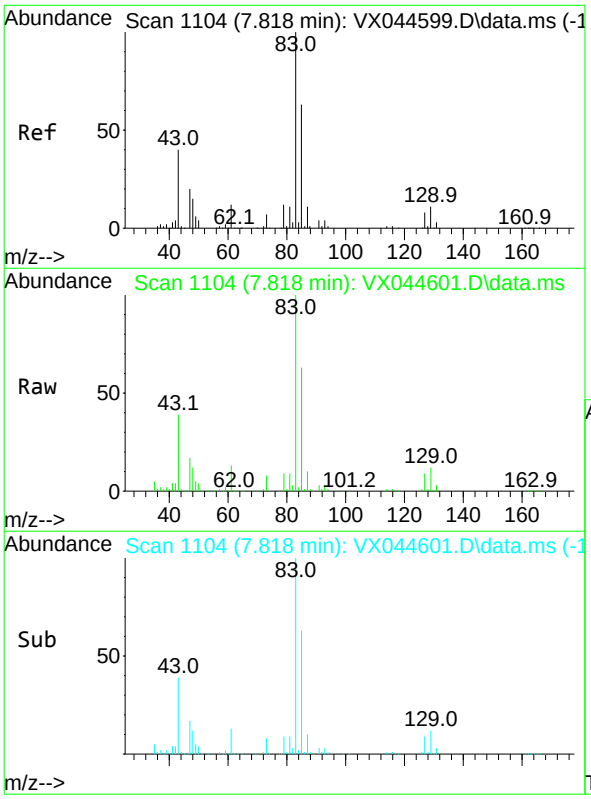
Ion	Ratio	Lower	Upper
93	100		
95	82.9	65.8	98.6
174	103.5	73.4	110.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

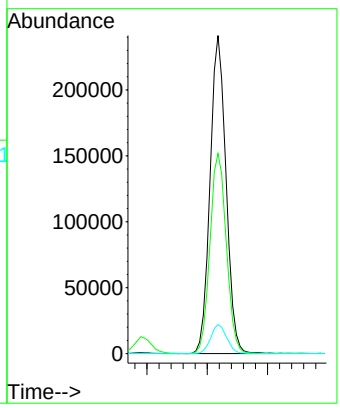
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

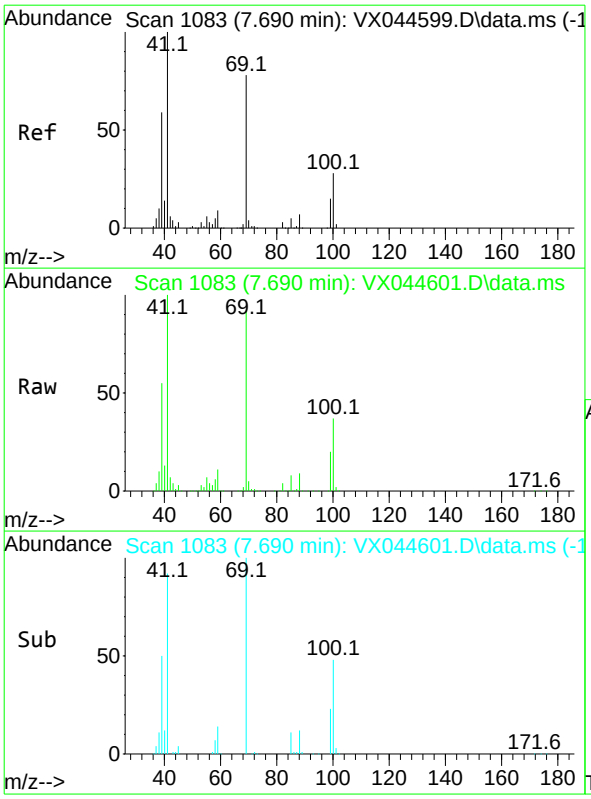


#47
Bromodichloromethane
Concen: 143.029 ug/l
RT: 7.818 min Scan# 1104
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 83 Resp: 443978

Ion	Ratio	Lower	Upper
83	100		
85	62.9	50.4	75.6
127	9.1	6.2	9.4

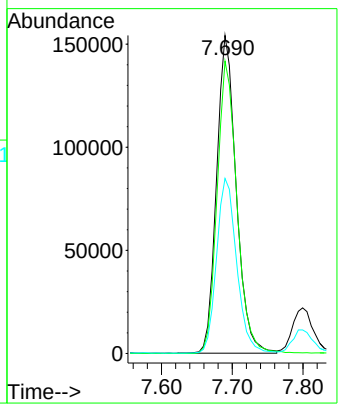




#48
Methyl methacrylate
Concen: 128.954 ug/l
RT: 7.690 min Scan# 10
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 41 Resp: 296575

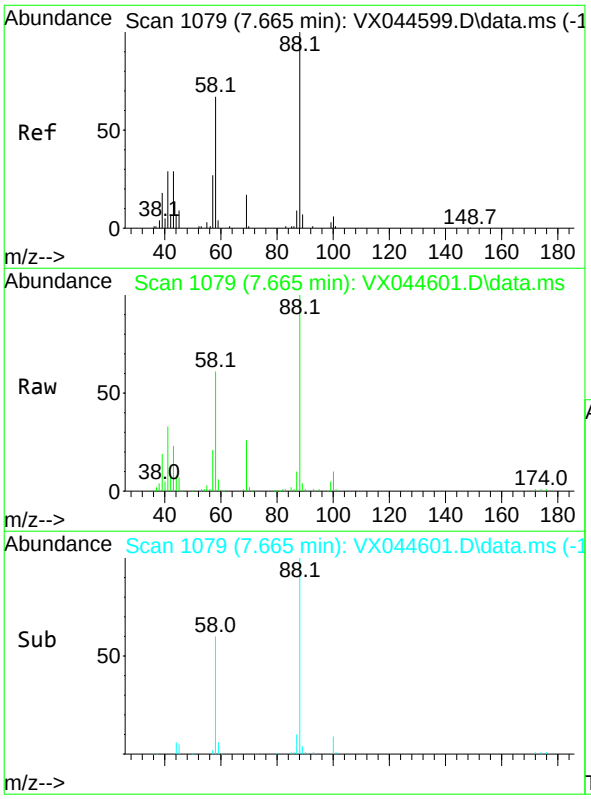
Ion	Ratio	Lower	Upper
41	100		
69	93.2	62.9	94.3
39	56.4	48.9	73.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

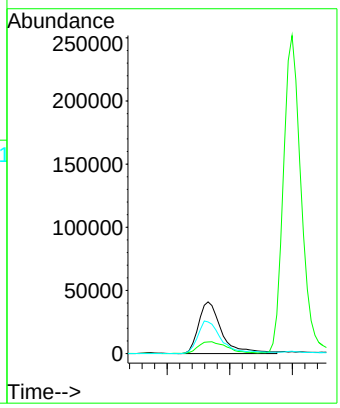
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

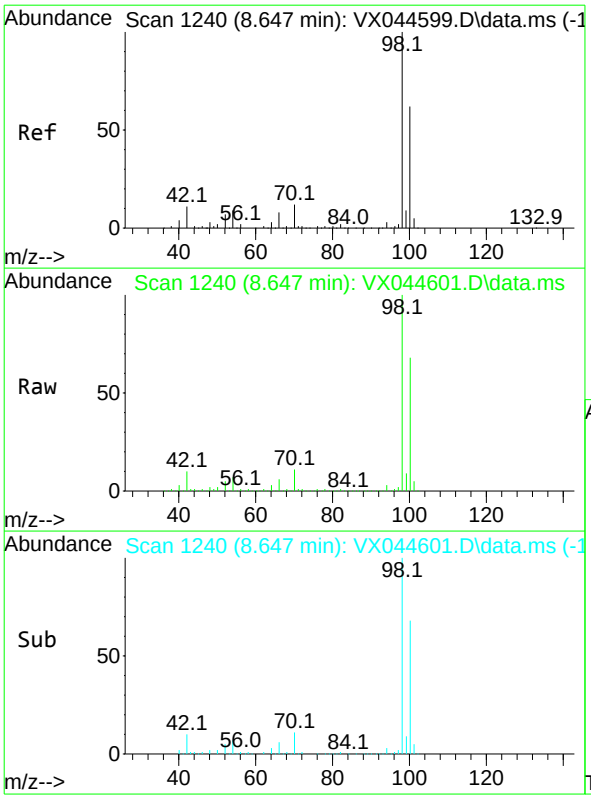


#49
1,4-Dioxane
Concen: 3106.467 ug/l
RT: 7.665 min Scan# 1079
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 88 Resp: 104987

Ion	Ratio	Lower	Upper
88	100		
43	29.1	29.5	44.3#
58	64.8	56.3	84.5

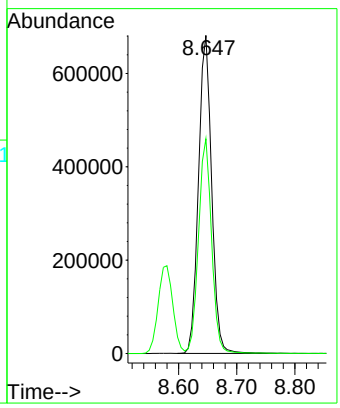




#50
Toluene-d8
Concen: 142.008 ug/l
RT: 8.647 min Scan# 12
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 98 Resp: 1071800

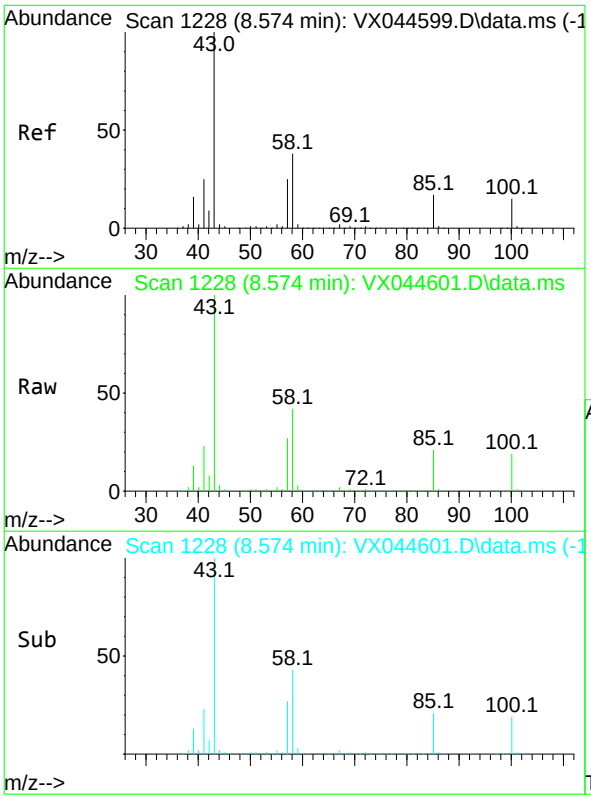
Ion	Ratio	Lower	Upper
98	100		
100	67.0	52.5	78.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

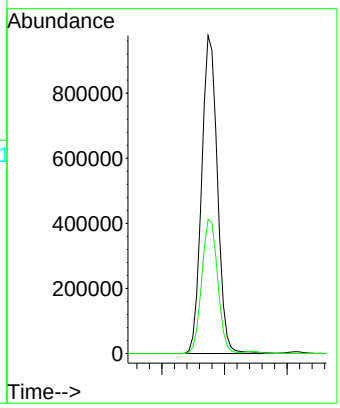
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

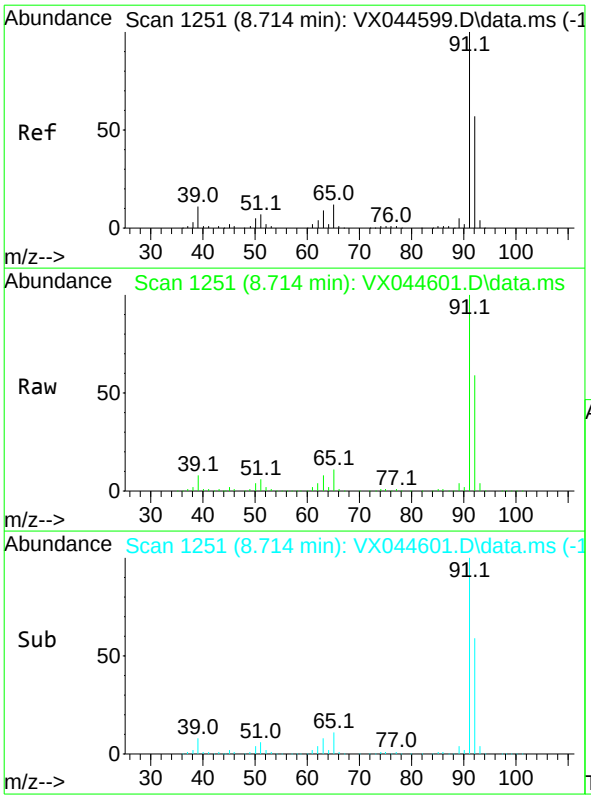


#51
4-Methyl-2-Pentanone
Concen: 607.176 ug/l
RT: 8.574 min Scan# 1228
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 43 Resp: 1711444

Ion	Ratio	Lower	Upper
43	100		
58	42.5	30.0	45.0

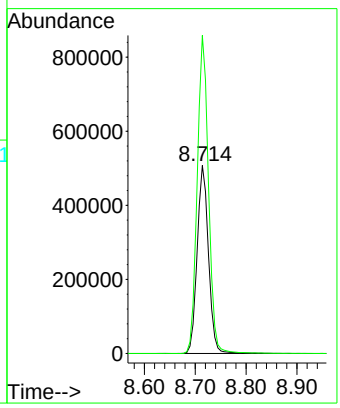




#52
Toluene
Concen: 144.441 ug/l
RT: 8.714 min Scan# 12
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 92 Resp: 784020

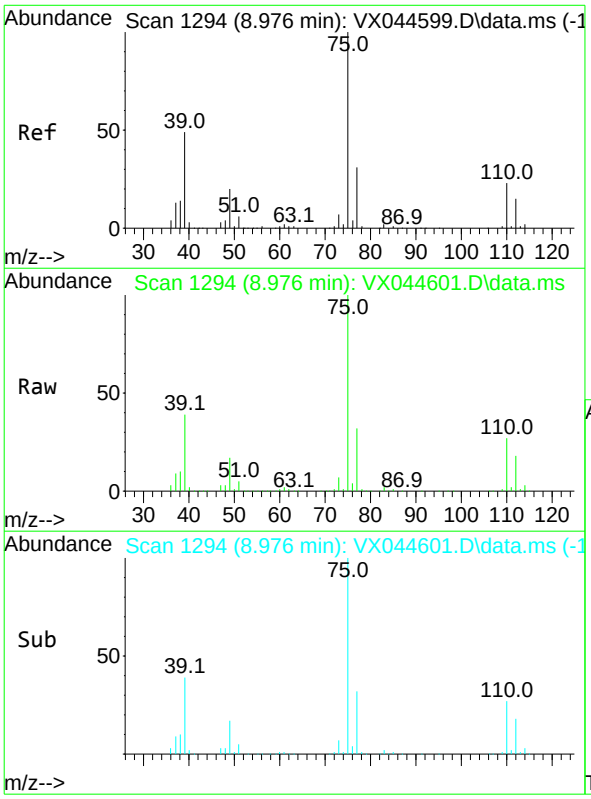
Ion	Ratio	Lower	Upper
92	100		
91	168.7	140.6	210.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

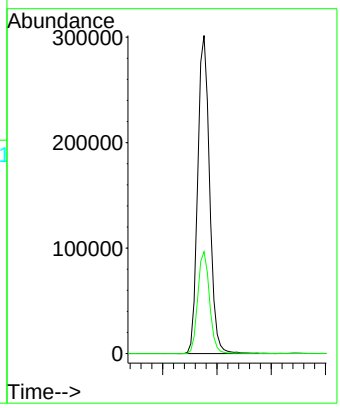
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

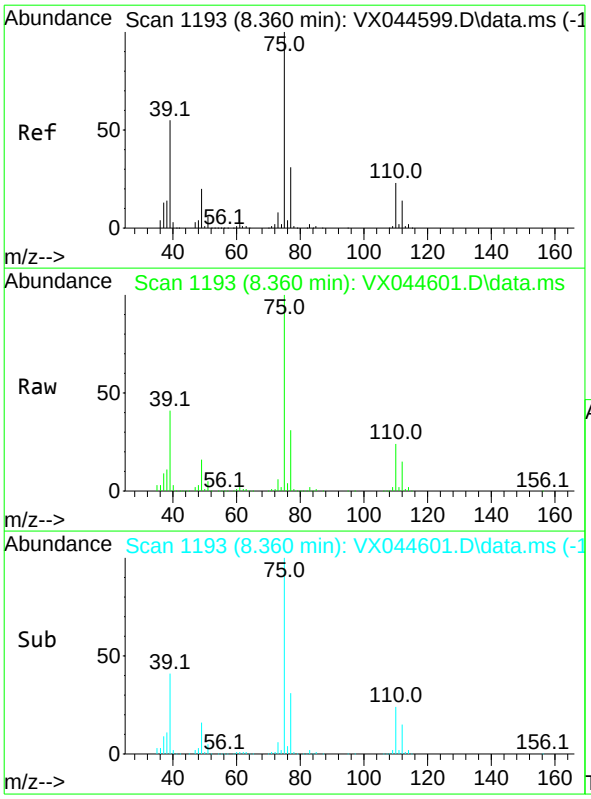


#53
t-1,3-Dichloropropene
Concen: 154.153 ug/l
RT: 8.976 min Scan# 1294
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 75 Resp: 457387

Ion	Ratio	Lower	Upper
75	100		
77	32.0	24.8	37.2

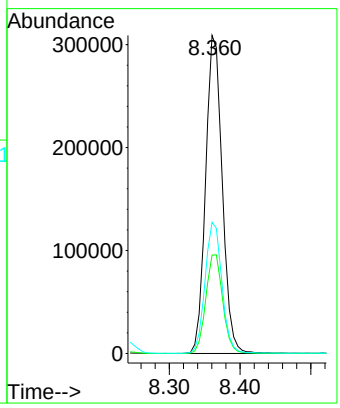




#54
cis-1,3-Dichloropropene
Concen: 151.162 ug/l
RT: 8.360 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 75 Resp: 504071

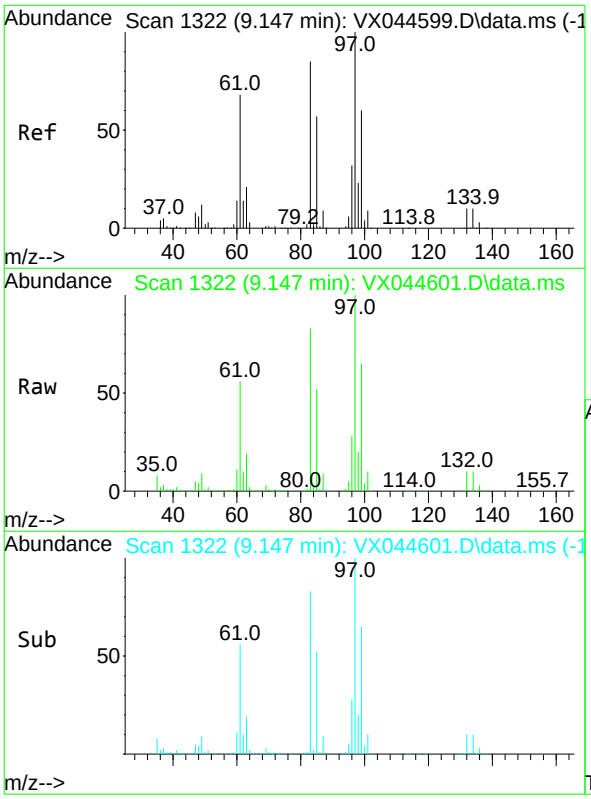
Ion	Ratio	Lower	Upper
75	100		
77	30.9	24.5	36.7
39	41.2	44.3	66.5#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

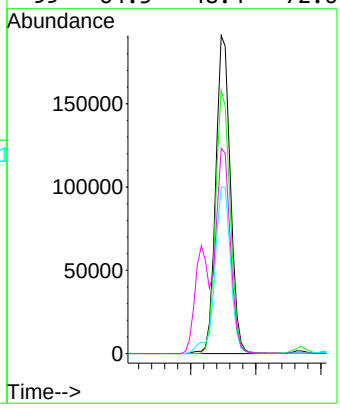
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

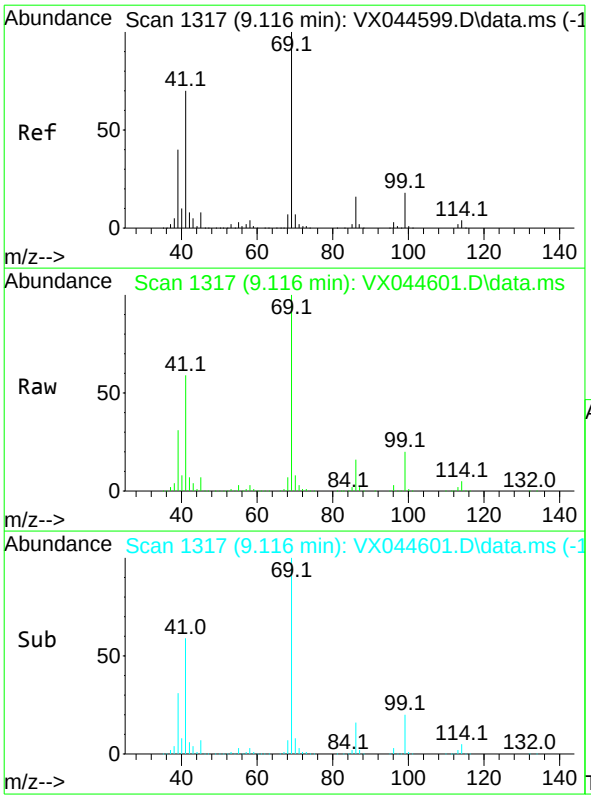


#55
1,1,2-Trichloroethane
Concen: 139.918 ug/l
RT: 9.147 min Scan# 1322
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 97 Resp: 297735

Ion	Ratio	Lower	Upper
97	100		
83	82.8	68.0	102.0
85	52.3	45.4	68.0
99	64.5	48.4	72.6

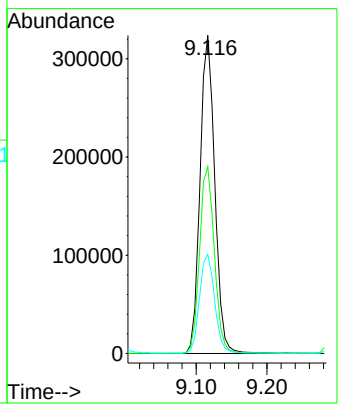




#56
Ethyl methacrylate
Concen: 151.390 ug/l
RT: 9.116 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 69 Resp: 468501

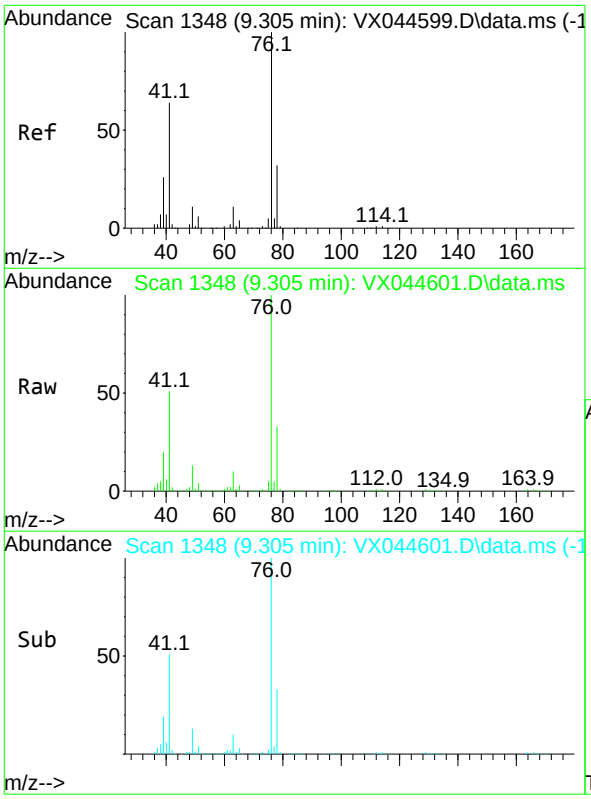
Ion	Ratio	Lower	Upper
69	100		
41	59.0	57.7	86.5
39	32.0	33.7	50.5#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

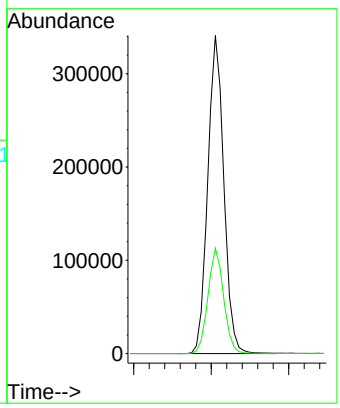
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

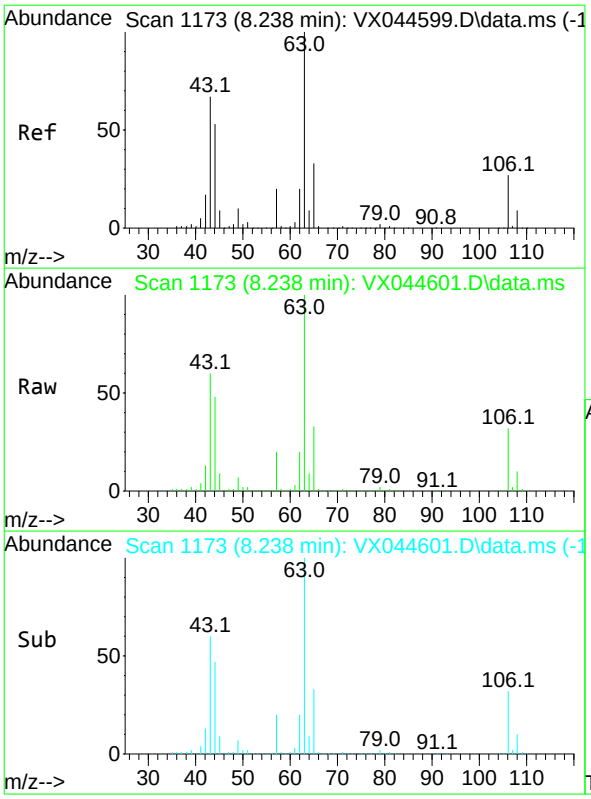


#57
1,3-Dichloropropane
Concen: 136.912 ug/l
RT: 9.305 min Scan# 1348
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 76 Resp: 489228

Ion	Ratio	Lower	Upper
76	100		
78	32.5	25.8	38.8

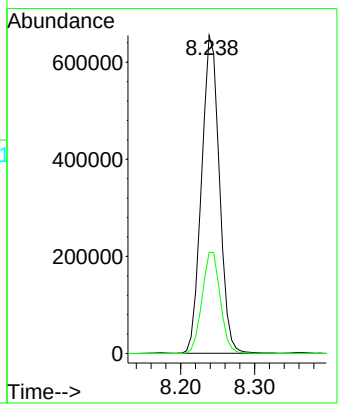




#58
2-Chloroethyl Vinyl ether
Concen: 715.006 ug/l
RT: 8.238 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 63 Resp: 1096941

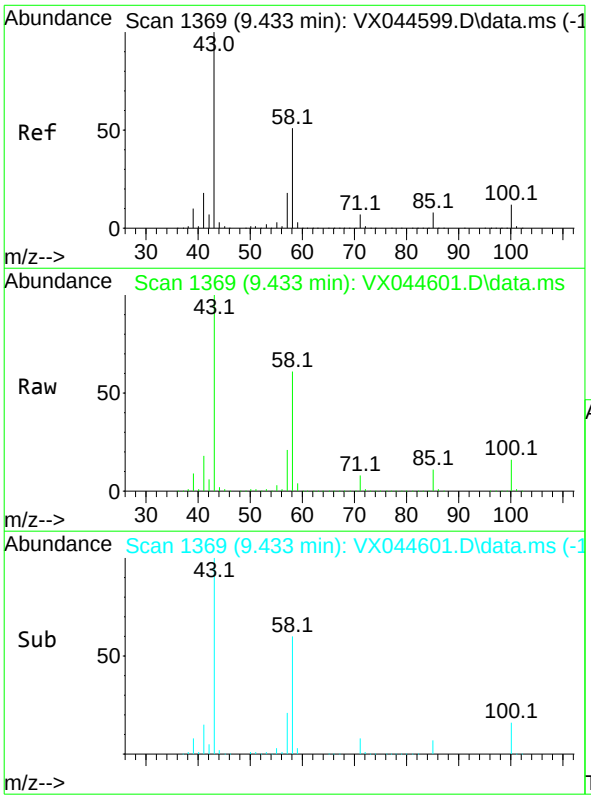
Ion	Ratio	Lower	Upper
63	100		
106	32.5	22.4	33.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

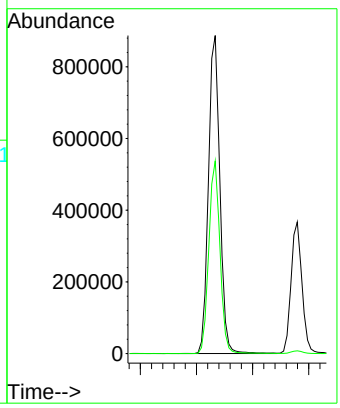
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

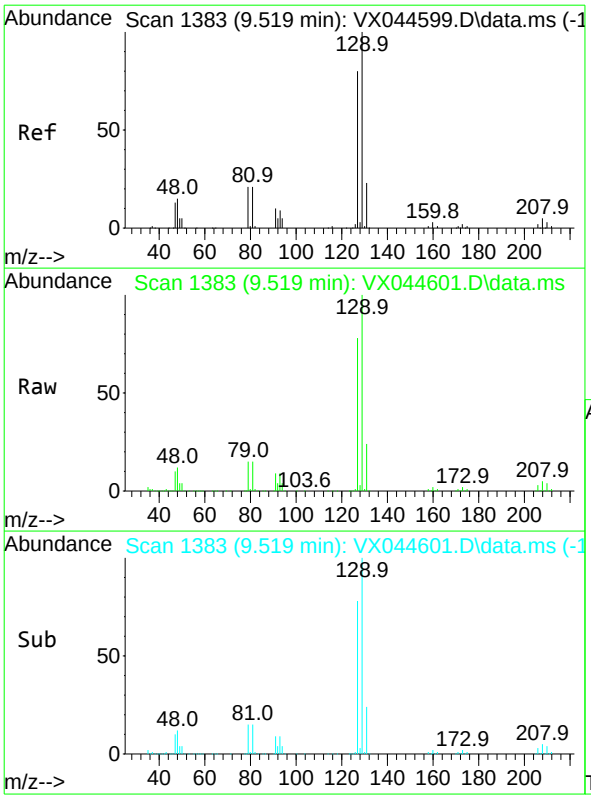


#59
2-Hexanone
Concen: 628.603 ug/l
RT: 9.433 min Scan# 1369
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 43 Resp: 1253079

Ion	Ratio	Lower	Upper
43	100		
58	59.3	25.4	76.4

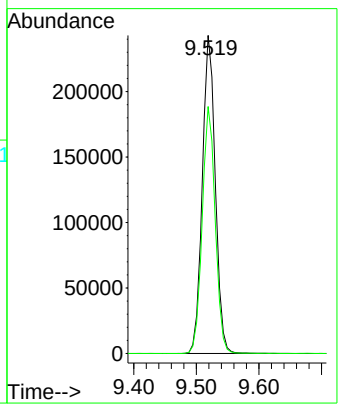




#60
Dibromochloromethane
Concen: 164.735 ug/l
RT: 9.519 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion:129 Resp: 349531

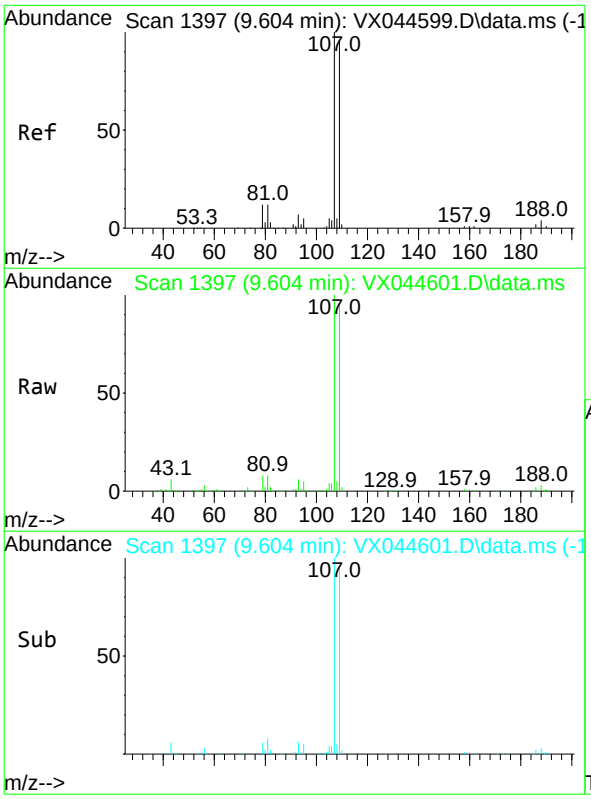
Ion	Ratio	Lower	Upper
129	100		
127	77.8	38.9	116.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

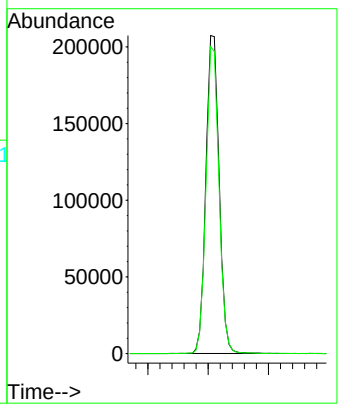
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

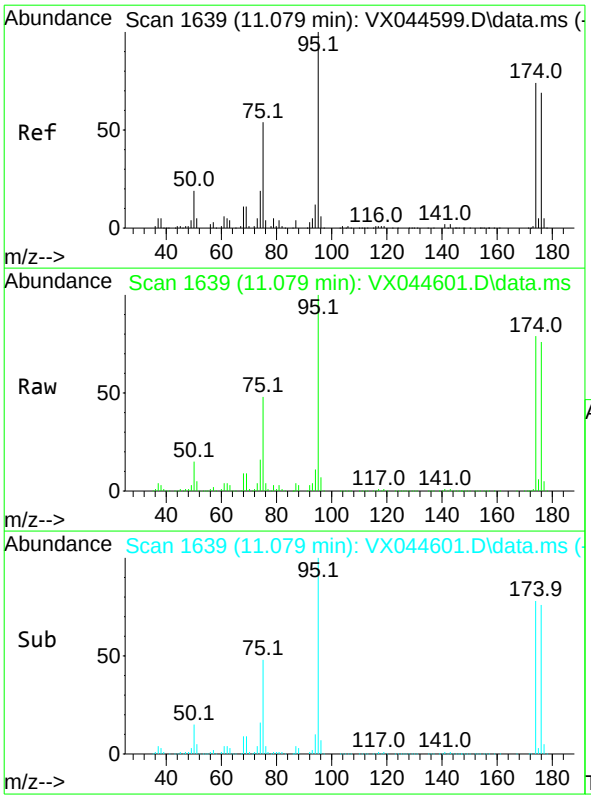


#61
1,2-Dibromoethane
Concen: 147.210 ug/l
RT: 9.604 min Scan# 1397
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion:107 Resp: 316369

Ion	Ratio	Lower	Upper
107	100		
109	95.0	76.7	115.1

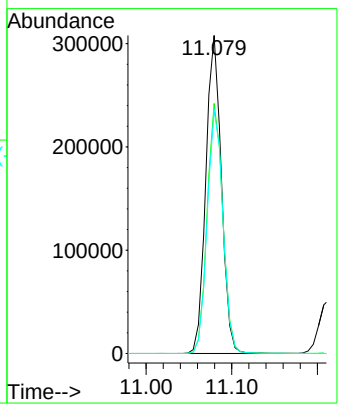




#62
4-Bromofluorobenzene
Concen: 145.246 ug/l
RT: 11.079 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 95 Resp: 386929

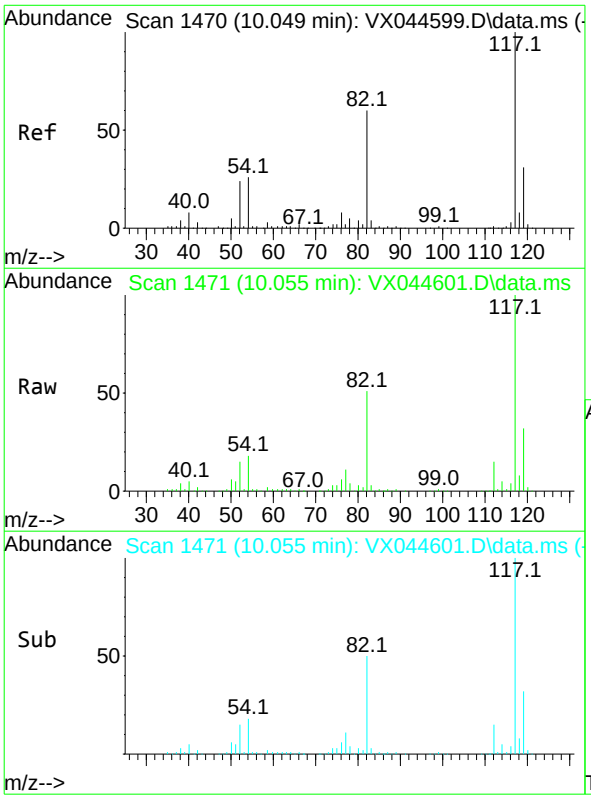
Ion	Ratio	Lower	Upper
95	100		
174	79.6	0.0	148.8
176	77.6	0.0	139.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

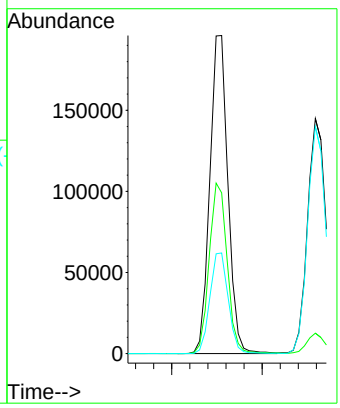
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

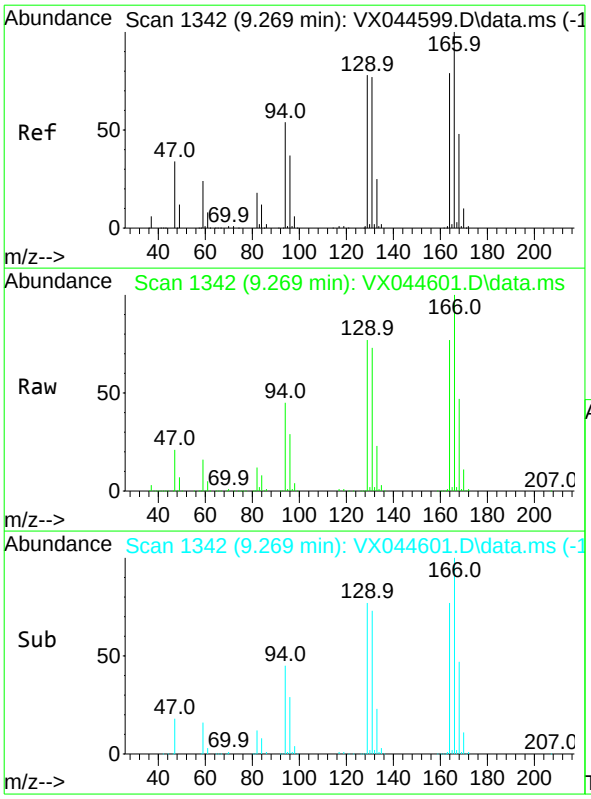


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.006 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion:117 Resp: 272245

Ion	Ratio	Lower	Upper
117	100		
82	50.5	47.8	71.6
119	31.6	25.0	37.6

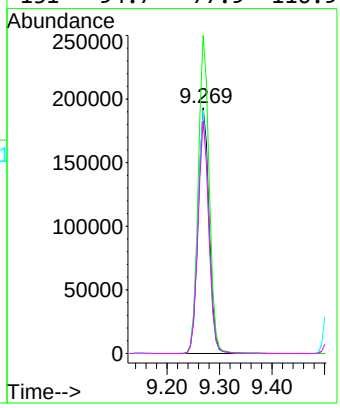




#64
Tetrachloroethene
Concen: 146.458 ug/l
RT: 9.269 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion:164 Resp: 281910

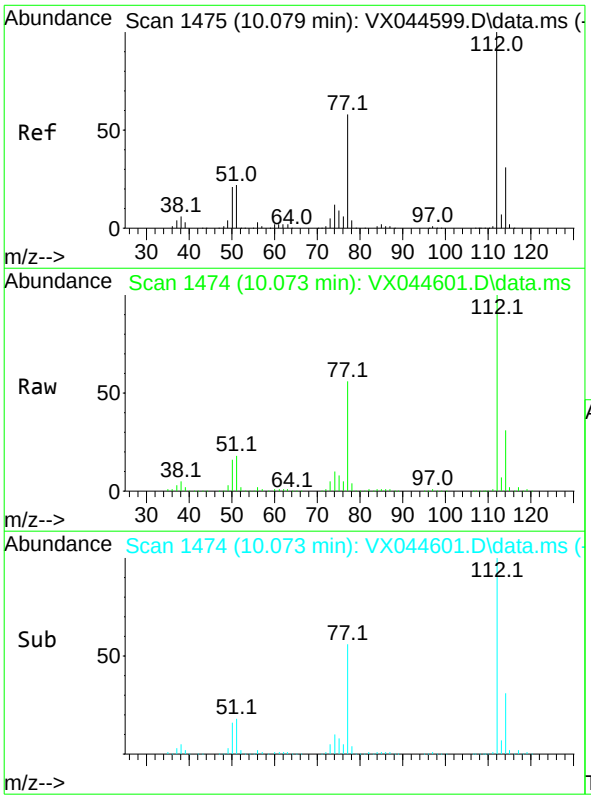
Ion	Ratio	Lower	Upper
164	100		
166	129.4	101.5	152.3
129	99.1	78.9	118.3
131	94.7	77.9	116.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

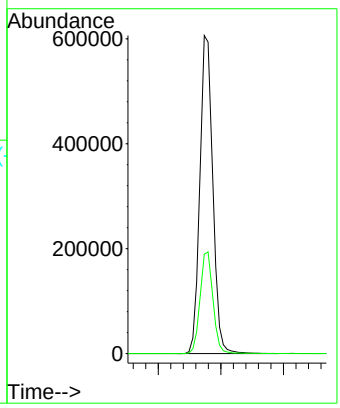
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

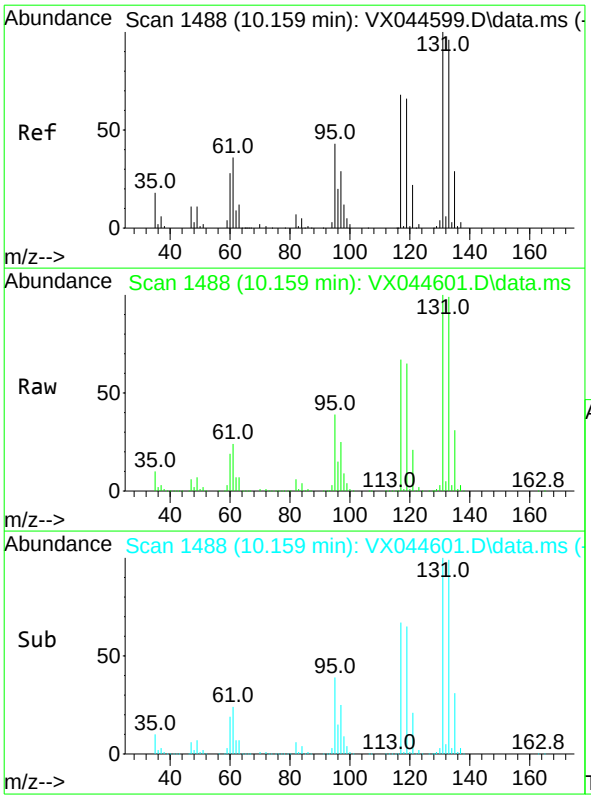


#65
Chlorobenzene
Concen: 150.505 ug/l
RT: 10.073 min Scan# 1474
Delta R.T. -0.006 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion:112 Resp: 869620

Ion	Ratio	Lower	Upper
112	100		
114	31.2	25.0	37.4

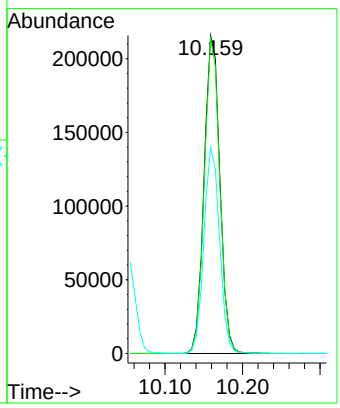




#66
1,1,1,2-Tetrachloroethane
Concen: 158.550 ug/l
RT: 10.159 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion:131 Resp: 304267

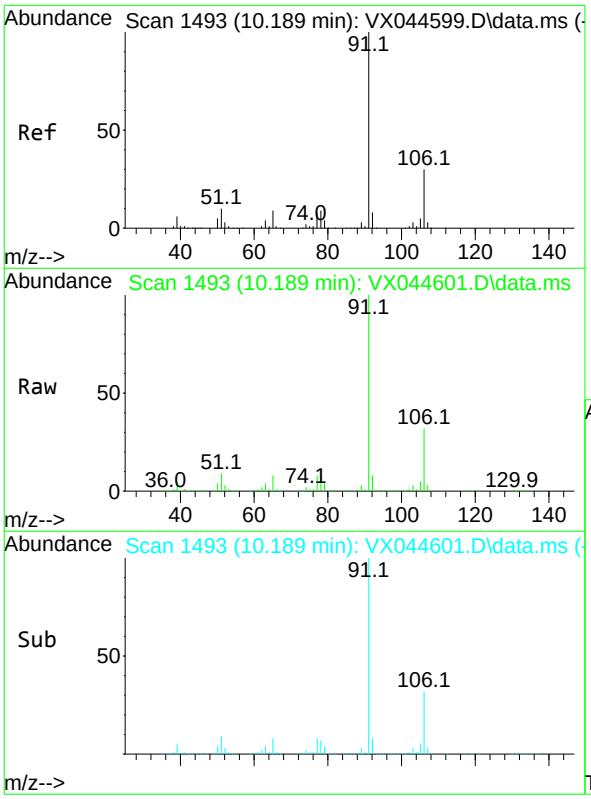
Ion	Ratio	Lower	Upper
131	100		
133	97.0	48.0	144.0
119	64.6	32.8	98.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

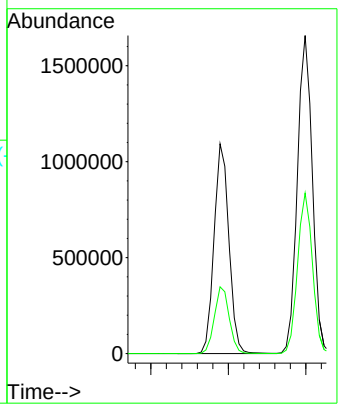
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

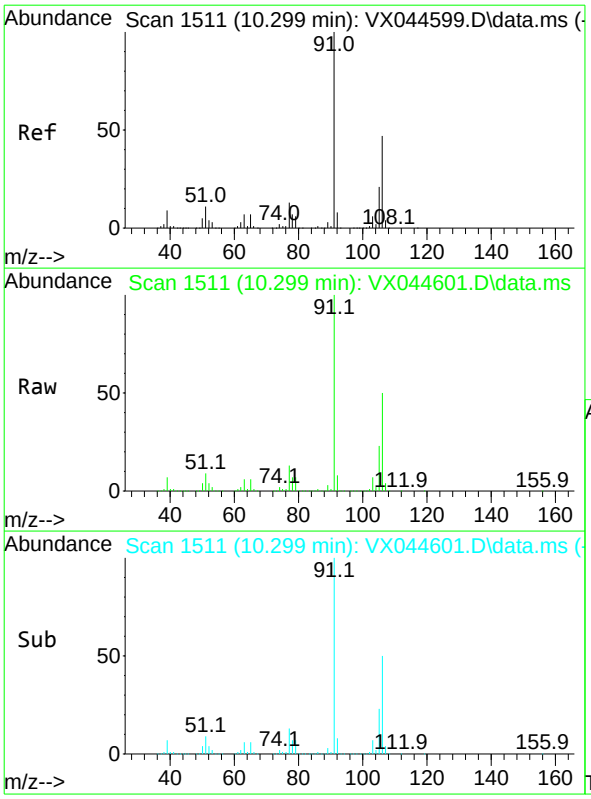


#67
Ethyl Benzene
Concen: 146.761 ug/l
RT: 10.189 min Scan# 1493
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 91 Resp: 1456186

Ion	Ratio	Lower	Upper
91	100		
106	31.8	23.8	35.8

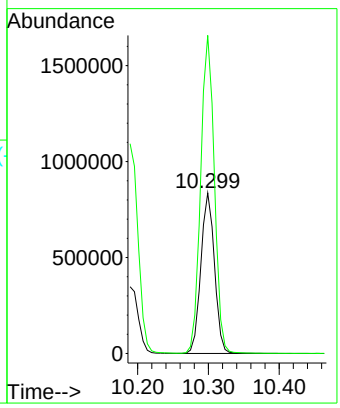




#68
m/p-Xylenes
Concen: 306.320 ug/l
RT: 10.299 min Scan# 15
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion:106 Resp: 1116860

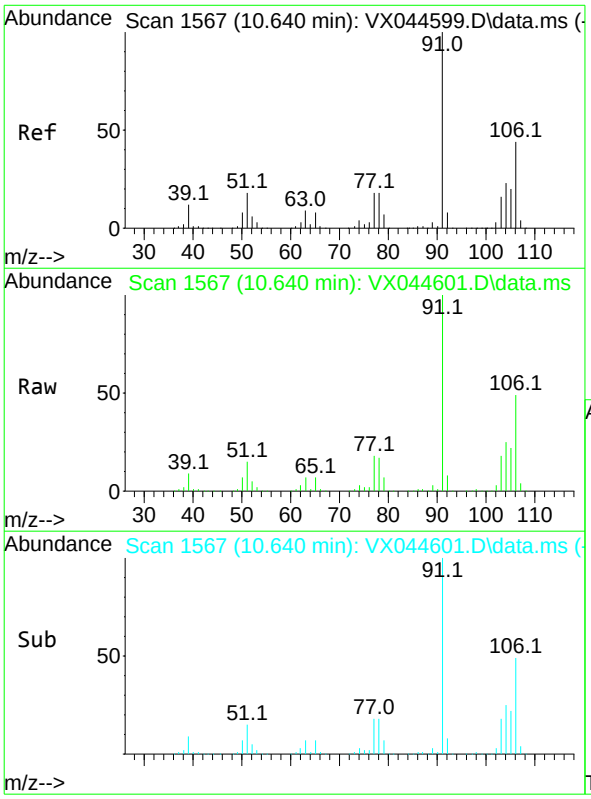
Ion	Ratio	Lower	Upper
106	100		
91	200.0	170.4	255.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

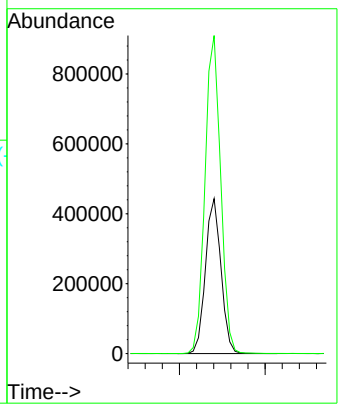
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

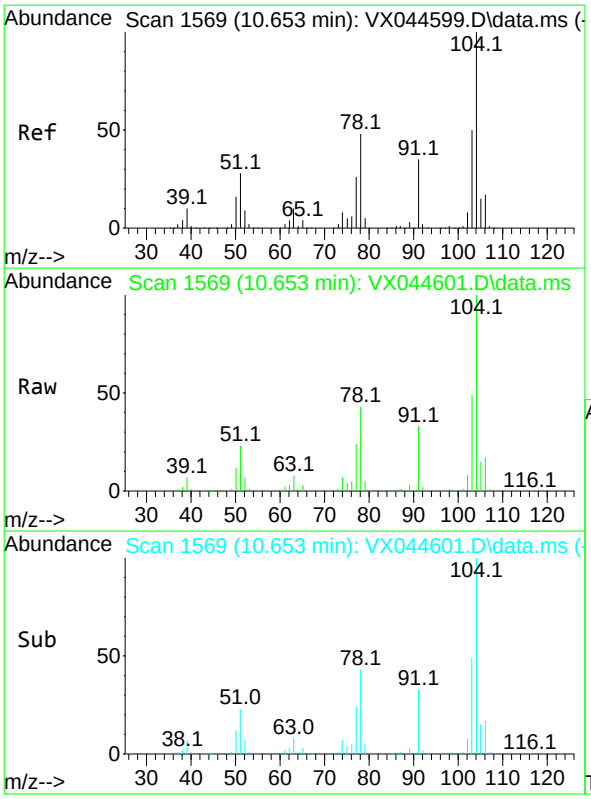


#69
o-Xylene
Concen: 151.545 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion:106 Resp: 557711

Ion	Ratio	Lower	Upper
106	100		
91	207.2	112.3	336.8

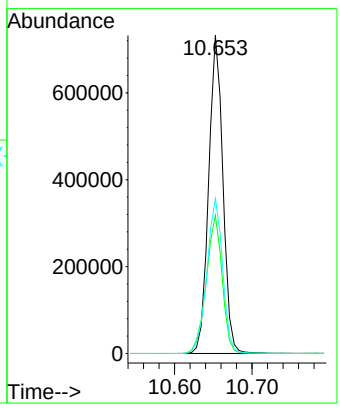




#70
Styrene
Concen: 158.937 ug/l
RT: 10.653 min Scan# 15
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion:104 Resp: 935547

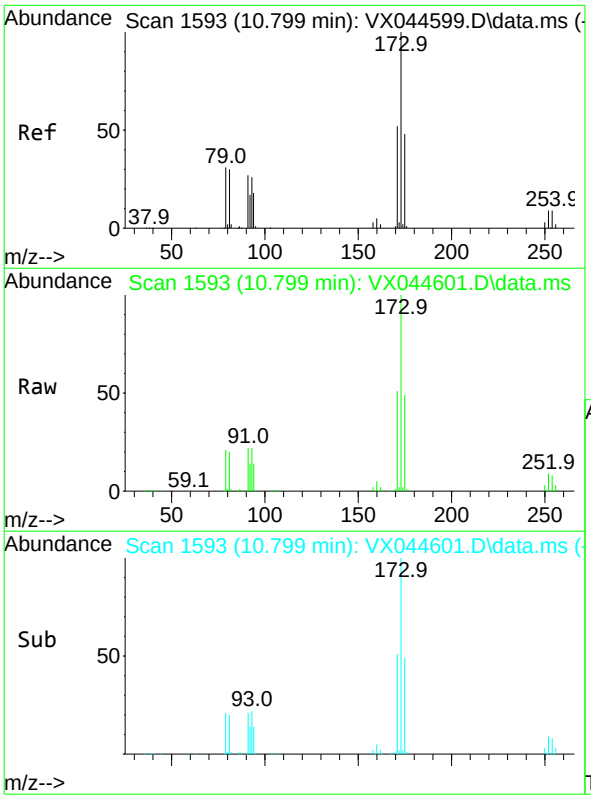
Ion	Ratio	Lower	Upper
104	100		
78	48.5	44.0	66.0
103	53.9	43.8	65.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

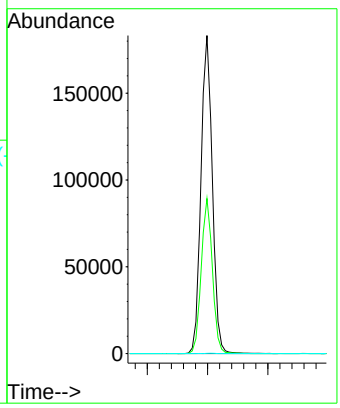
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

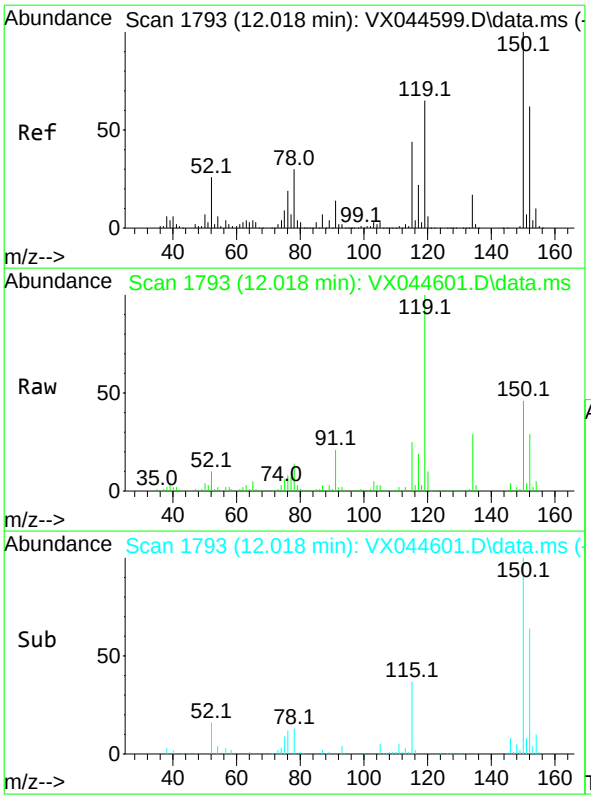


#71
Bromoform
Concen: 149.977 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. -0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion:173 Resp: 239442

Ion	Ratio	Lower	Upper
173	100		
175	47.9	24.6	73.8
254	0.1	0.0	0.0#

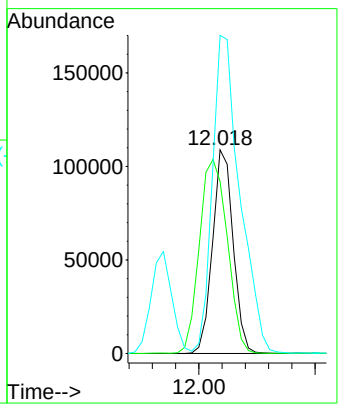




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 17
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion:152 Resp: 134118

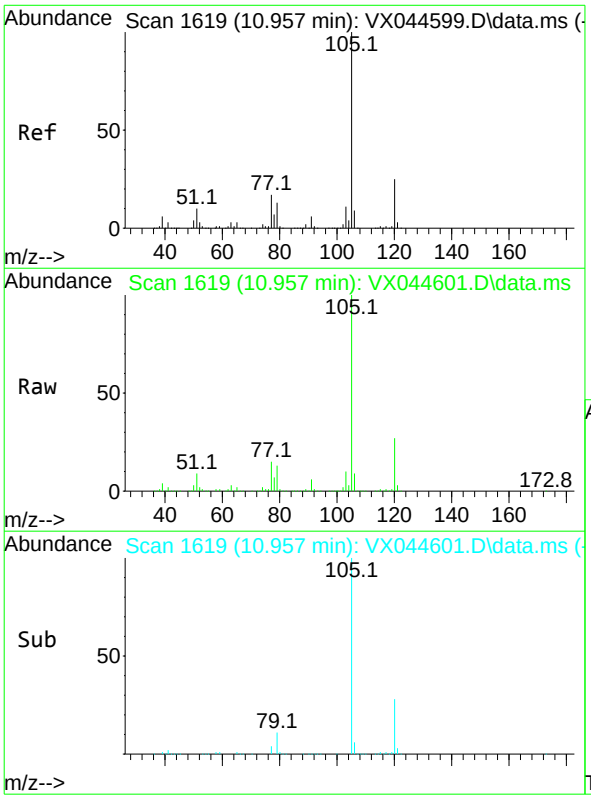
Ion	Ratio	Lower	Upper
152	100		
115	129.1	44.4	133.1
150	208.3	0.0	355.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

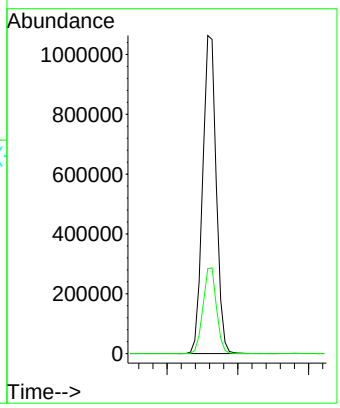
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

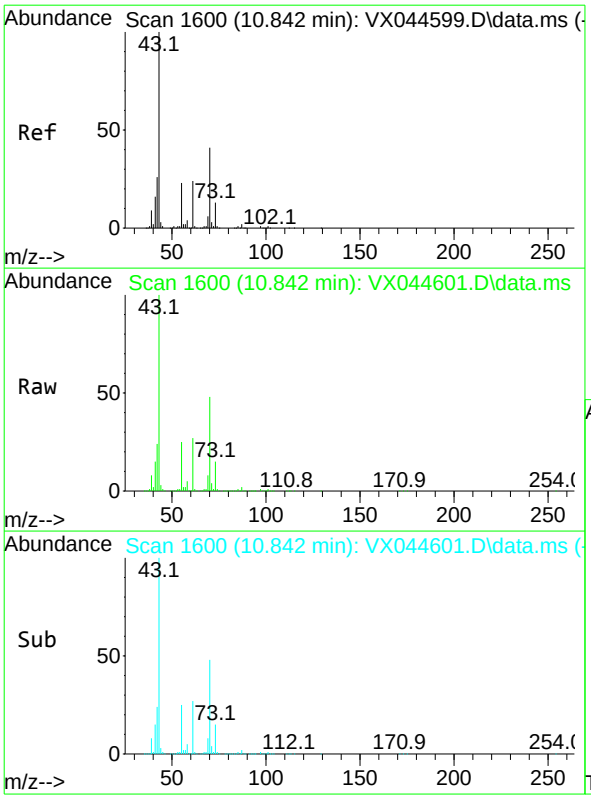


#73
Isopropylbenzene
Concen: 142.367 ug/l
RT: 10.957 min Scan# 1619
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion:105 Resp: 1414616

Ion	Ratio	Lower	Upper
105	100		
120	26.8	13.0	38.9

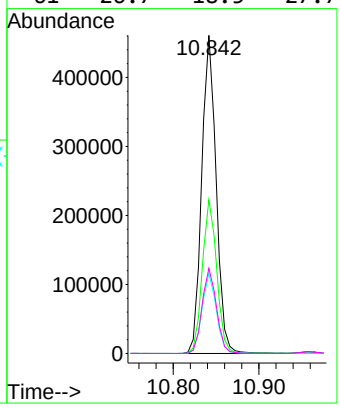




#74
N-amyl acetate
Concen: 133.652 ug/l
RT: 10.842 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 43 Resp: 538859

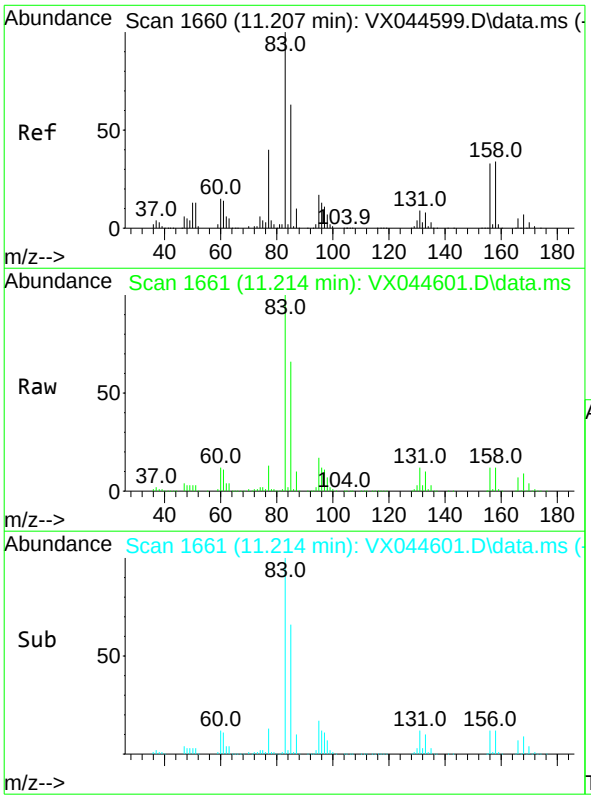
Ion	Ratio	Lower	Upper
43	100		
70	48.3	32.9	49.3
55	25.0	19.0	28.6
61	26.7	18.5	27.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

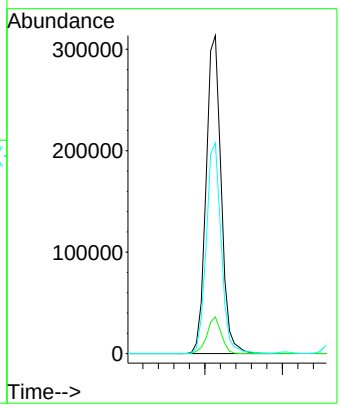
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

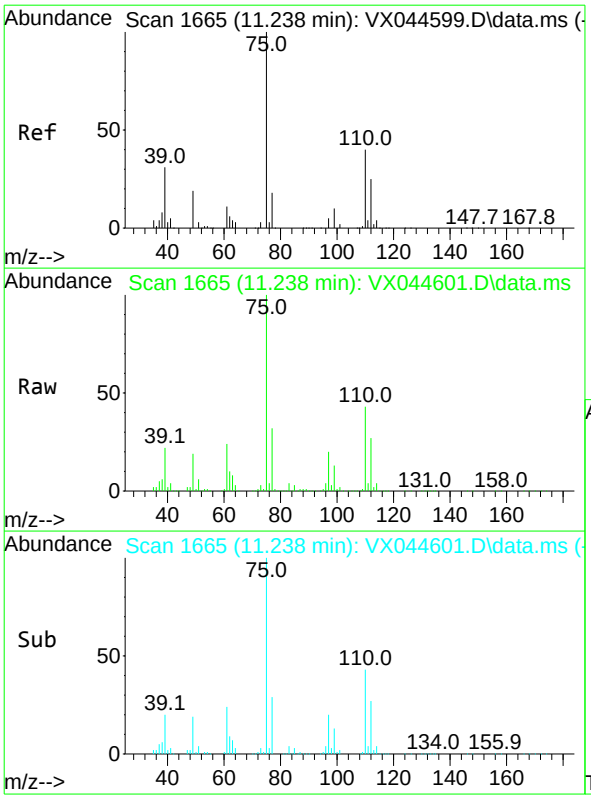


#75
1,1,2,2-Tetrachloroethane
Concen: 132.076 ug/l
RT: 11.214 min Scan# 1661
Delta R.T. 0.006 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 83 Resp: 423014

Ion	Ratio	Lower	Upper
83	100		
131	11.0	5.0	15.0
85	65.6	31.9	95.5





#76
1,2,3-Trichloropropane
Concen: 130.022 ug/l m
RT: 11.238 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

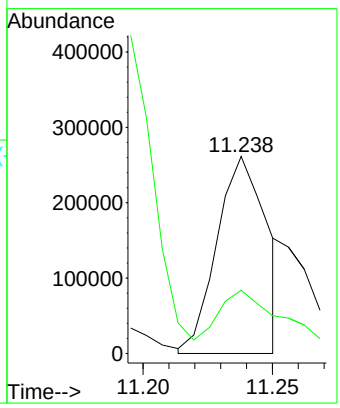
Tgt Ion: 75 Resp: 349569

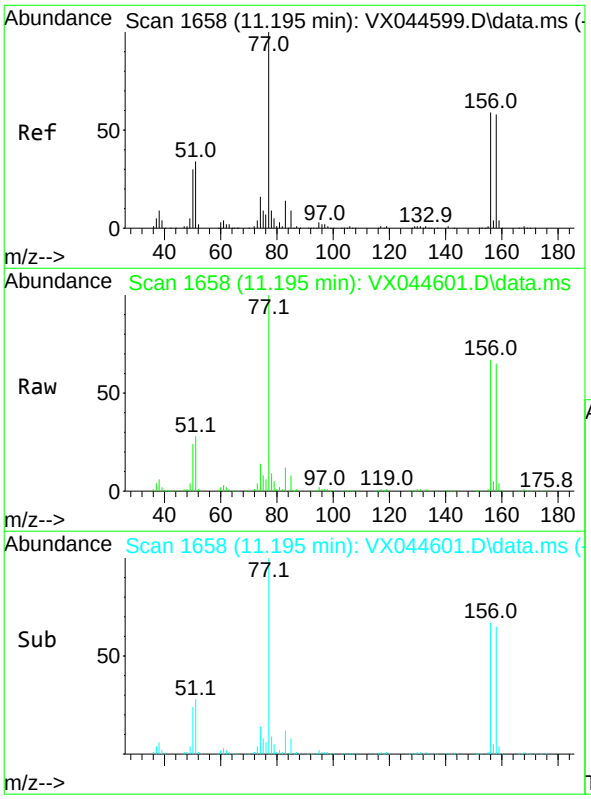
Ion	Ratio	Lower	Upper
75	100		
77	43.4	21.1	63.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

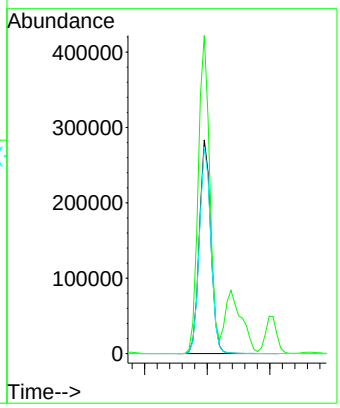


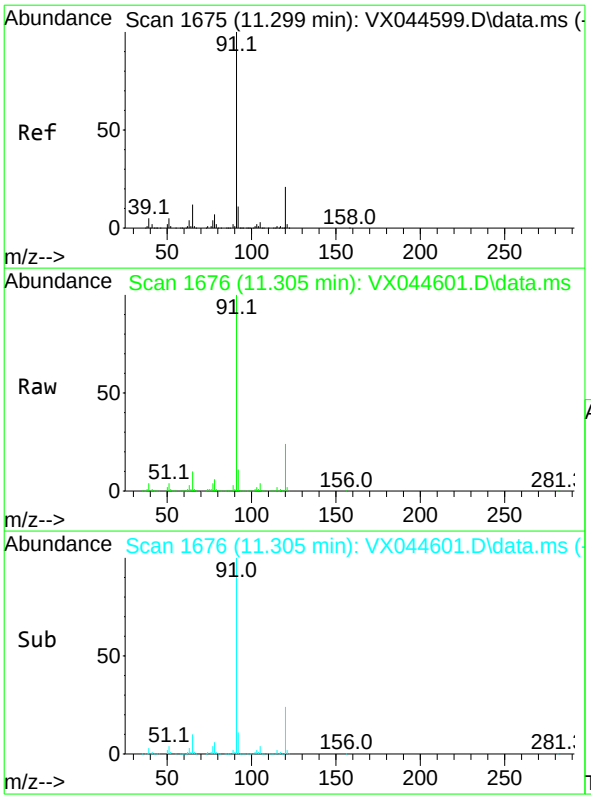


#77
Bromobenzene
Concen: 149.574 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion:156 Resp: 361039

Ion	Ratio	Lower	Upper
156	100		
77	149.5	85.7	257.1
158	96.8	49.9	149.6

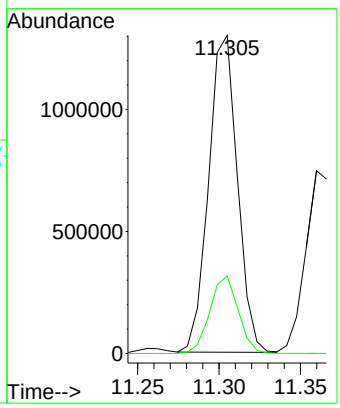




#78
n-propylbenzene
Concen: 142.620 ug/l
RT: 11.305 min Scan# 16
Delta R.T. 0.006 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 91 Resp: 1596196

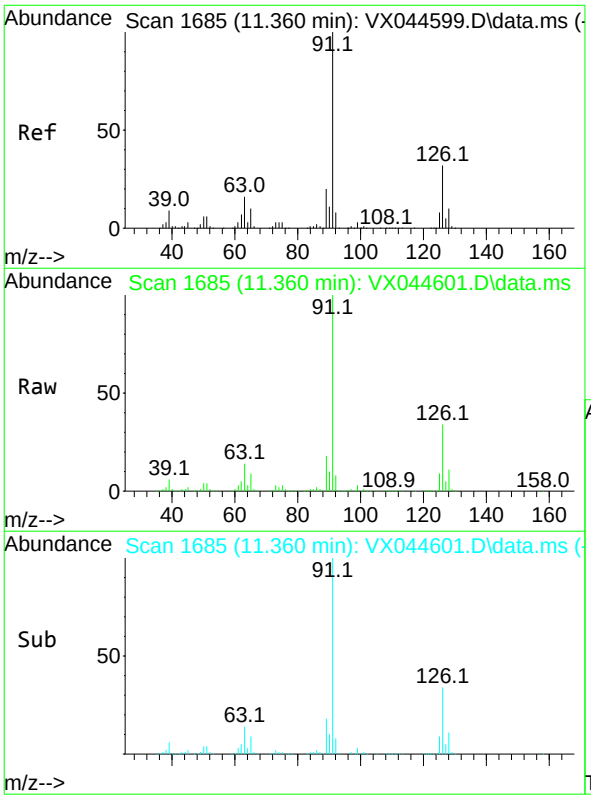
Ion	Ratio	Lower	Upper
91	100		
120	24.1	11.2	33.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

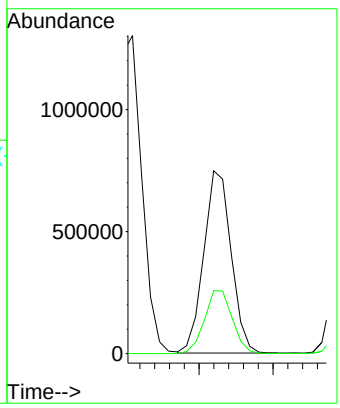
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

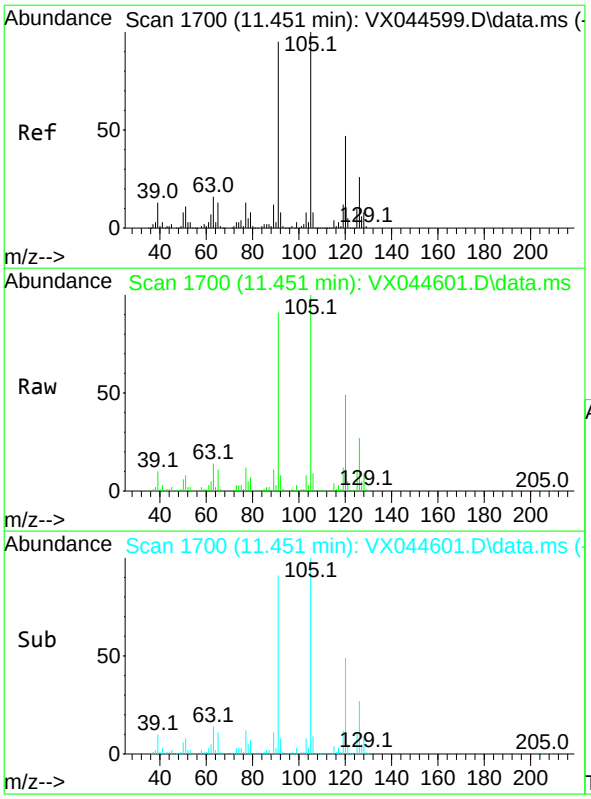


#79
2-Chlorotoluene
Concen: 132.631 ug/l
RT: 11.360 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 91 Resp: 961904

Ion	Ratio	Lower	Upper
91	100		
126	35.2	16.4	49.2

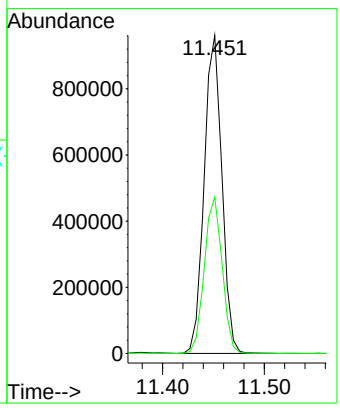




#80
1,3,5-Trimethylbenzene
Concen: 141.208 ug/l
RT: 11.451 min Scan# 17
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion:105 Resp: 1163357

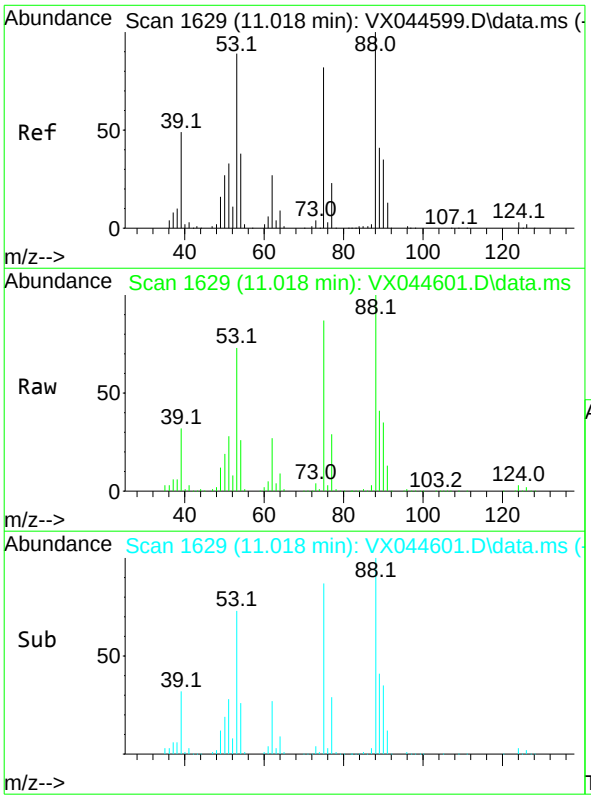
Ion	Ratio	Lower	Upper
105	100		
120	49.5	23.5	70.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

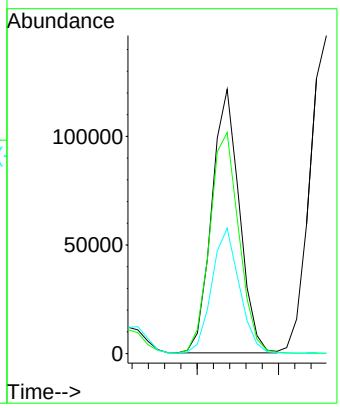
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

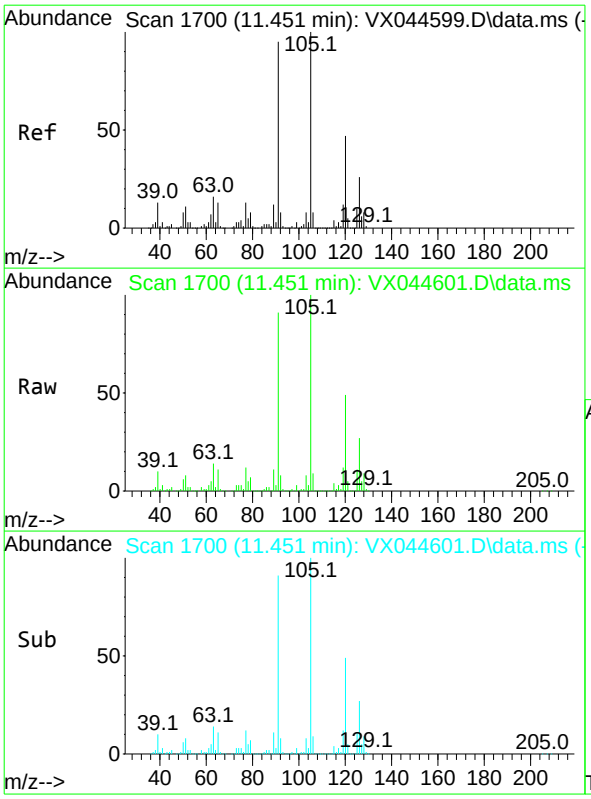


#81
trans-1,4-Dichloro-2-butene
Concen: 162.448 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 75 Resp: 143479

Ion	Ratio	Lower	Upper
75	100		
53	88.2	92.7	139.1#
89	47.9	38.3	57.5

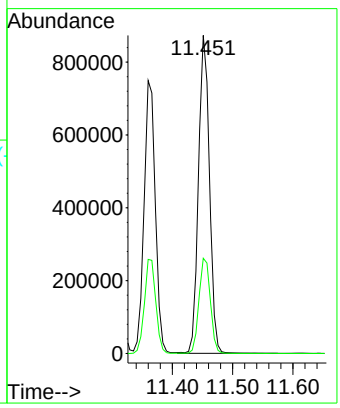




#82
4-Chlorotoluene
Concen: 135.314 ug/l
RT: 11.451 min Scan# 17
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 91 Resp: 1104003

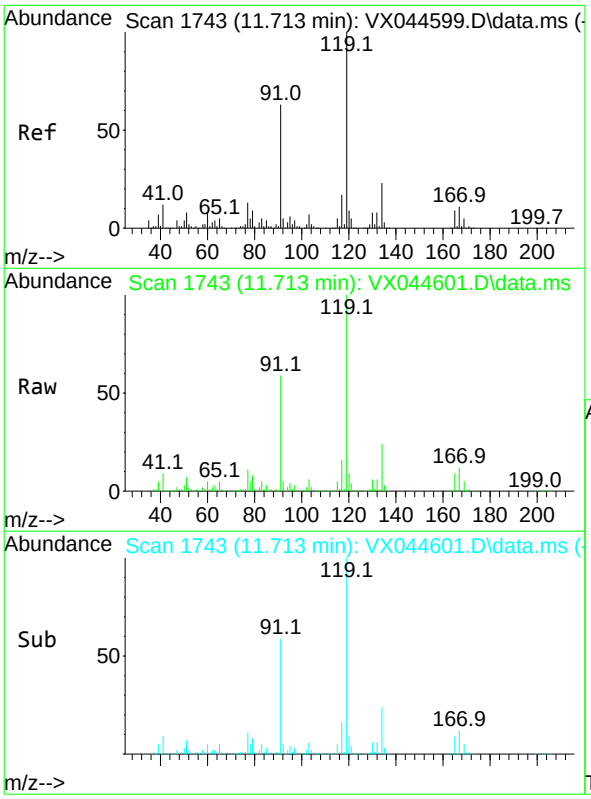
Ion	Ratio	Lower	Upper
91	100		
126	31.0	14.0	42.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

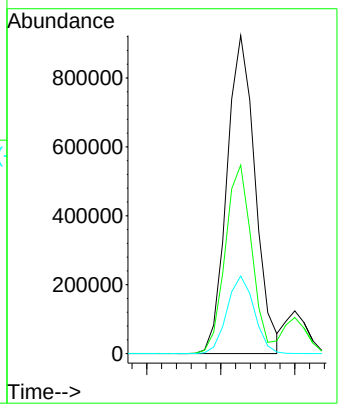
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

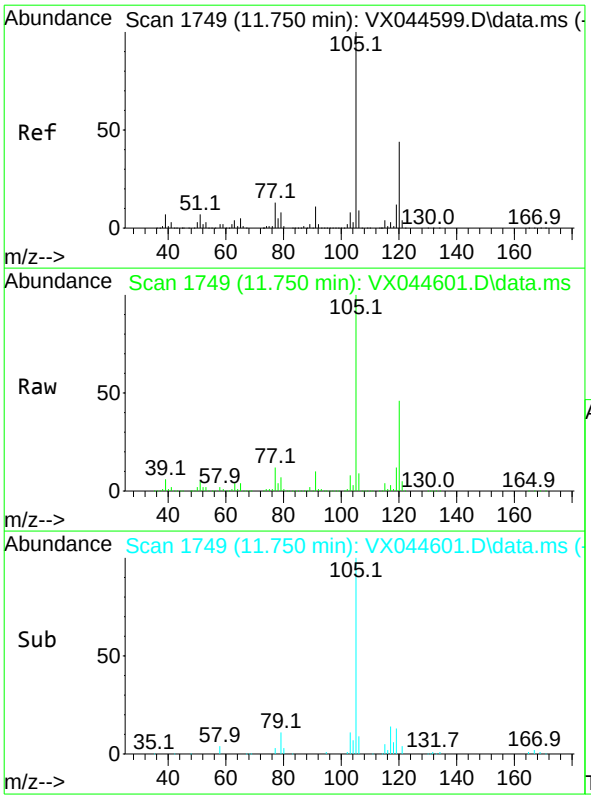


#83
tert-Butylbenzene
Concen: 149.273 ug/l
RT: 11.713 min Scan# 1743
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion:119 Resp: 1224555

Ion	Ratio	Lower	Upper
119	100		
91	56.5	30.9	92.8
134	23.5	11.7	35.0

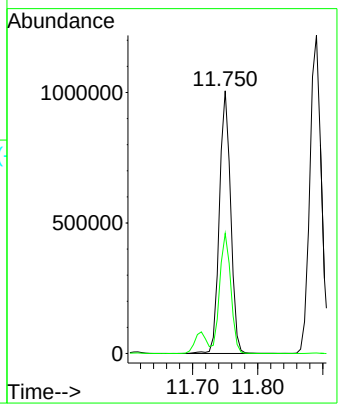




#84
1,2,4-Trimethylbenzene
Concen: 145.607 ug/l
RT: 11.750 min Scan# 17
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion:105 Resp: 1205026

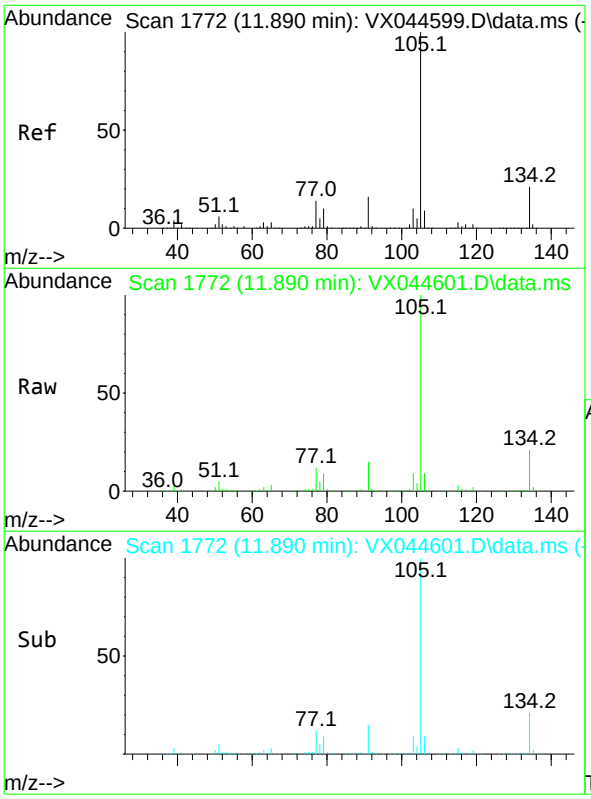
Ion	Ratio	Lower	Upper
105	100		
120	45.5	21.9	65.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

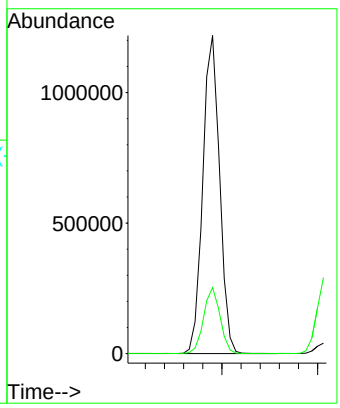
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

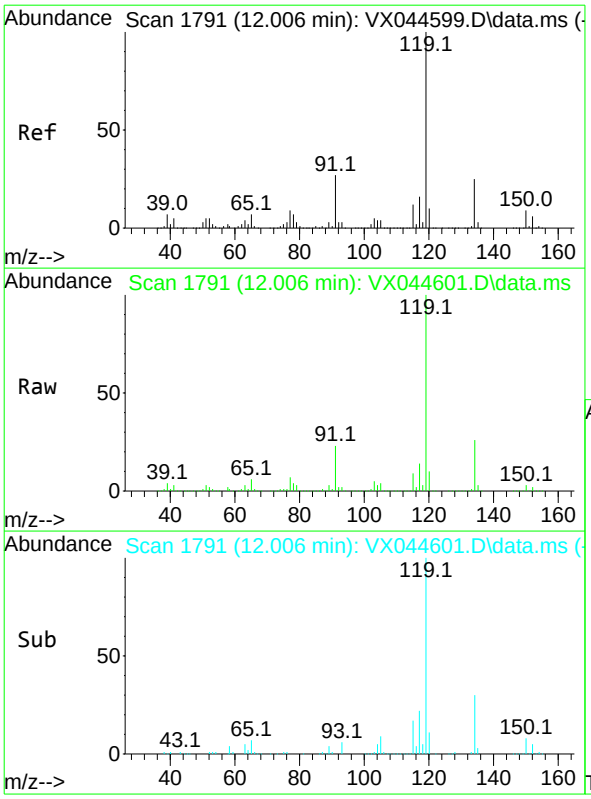


#85
sec-Butylbenzene
Concen: 148.531 ug/l
RT: 11.890 min Scan# 1772
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion:105 Resp: 1483948

Ion	Ratio	Lower	Upper
105	100		
134	20.3	9.9	29.7

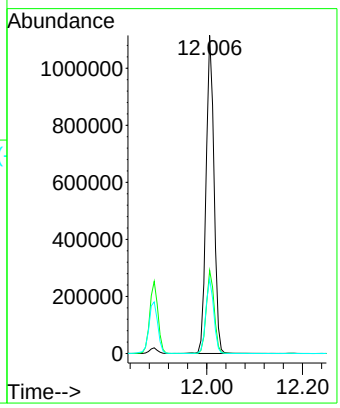




#86
p-Isopropyltoluene
Concen: 152.392 ug/l
RT: 12.006 min Scan# 17
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion:119 Resp: 1277498

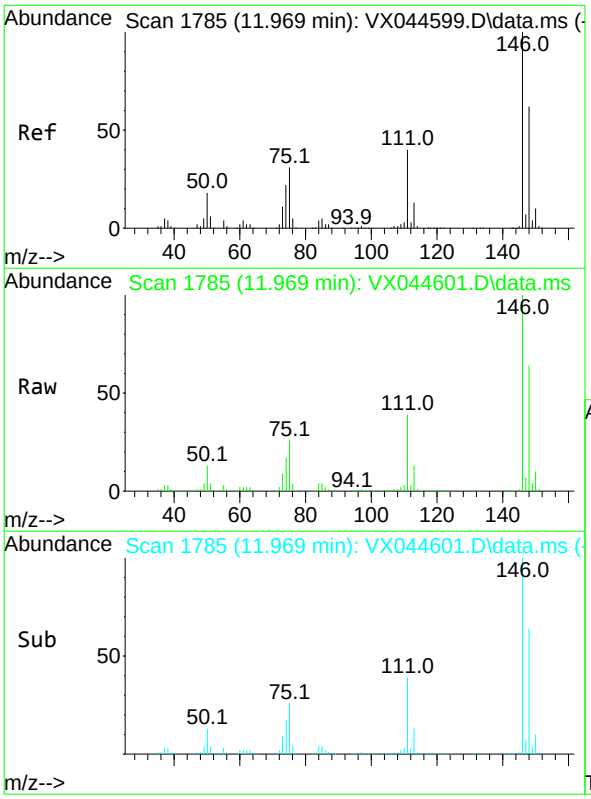
Ion	Ratio	Lower	Upper
119	100		
134	26.1	12.6	37.8
91	23.4	13.1	39.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

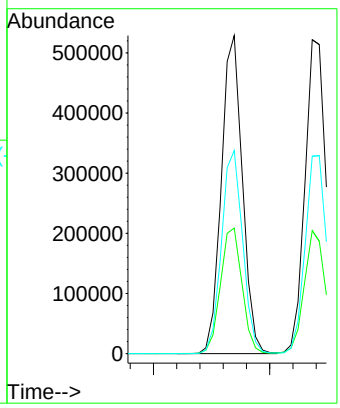
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

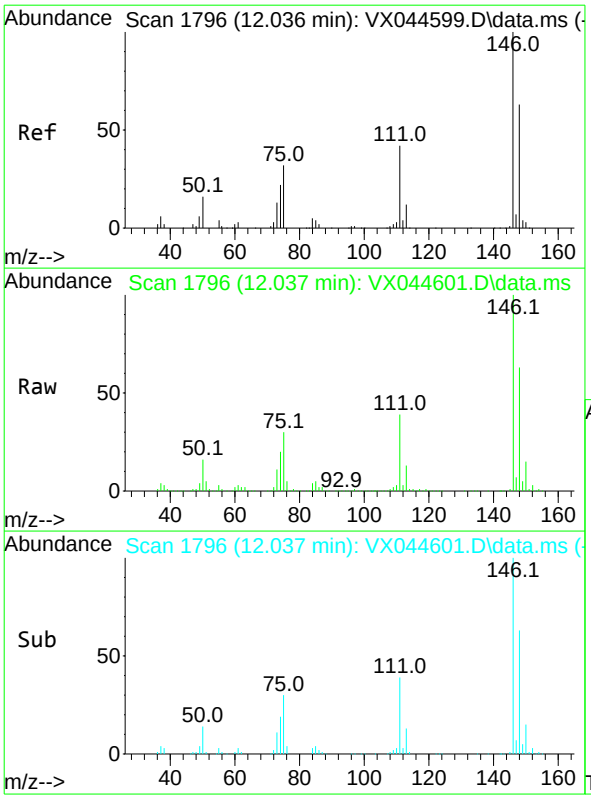


#87
1,3-Dichlorobenzene
Concen: 152.281 ug/l
RT: 11.969 min Scan# 1785
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion:146 Resp: 664944

Ion	Ratio	Lower	Upper
146	100		
111	40.4	21.0	63.0
148	64.3	31.6	95.0

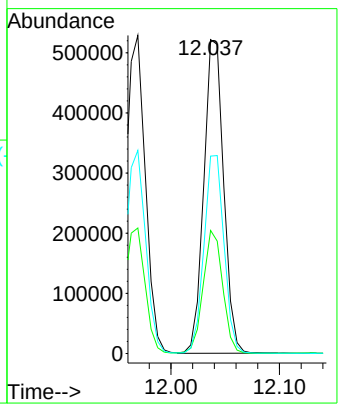




#88
1,4-Dichlorobenzene
Concen: 145.590 ug/l
RT: 12.037 min Scan# 17
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion:146 Resp: 662357

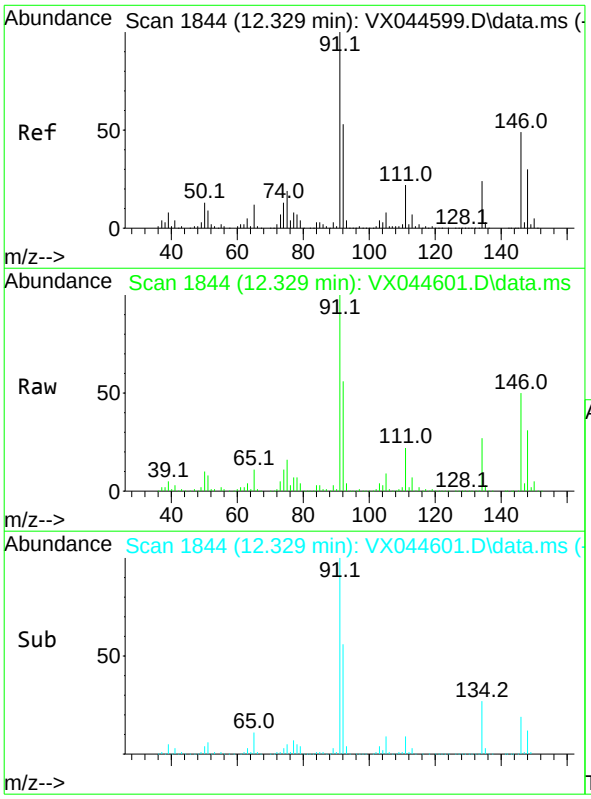
Ion	Ratio	Lower	Upper
146	100		
111	38.5	20.7	62.1
148	64.1	31.8	95.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

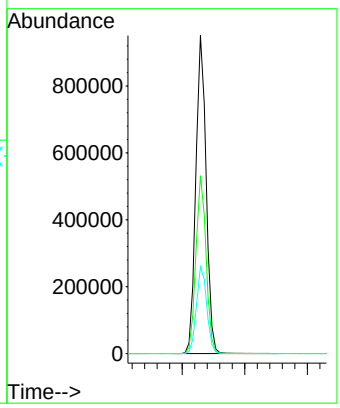
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

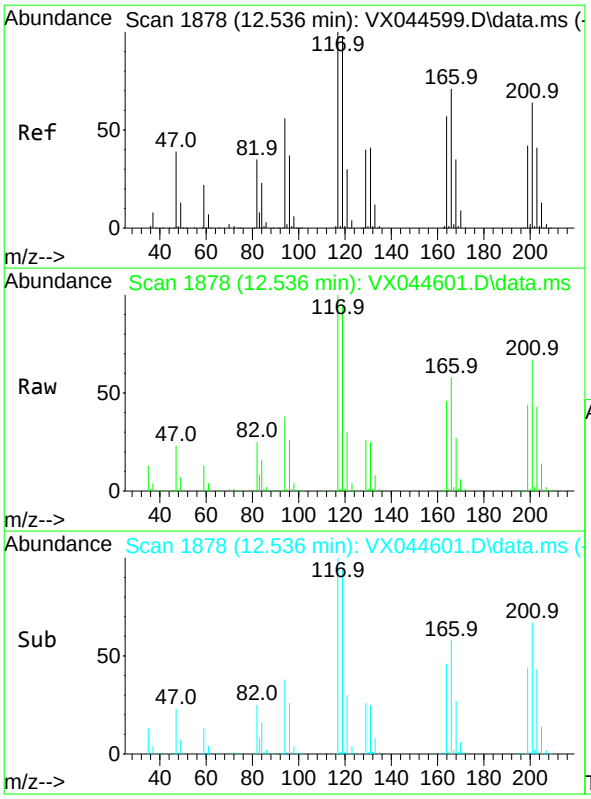


#89
n-Butylbenzene
Concen: 154.101 ug/l
RT: 12.329 min Scan# 1844
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 91 Resp: 1090816

Ion	Ratio	Lower	Upper
91	100		
92	55.4	26.5	79.4
134	27.4	12.4	37.2

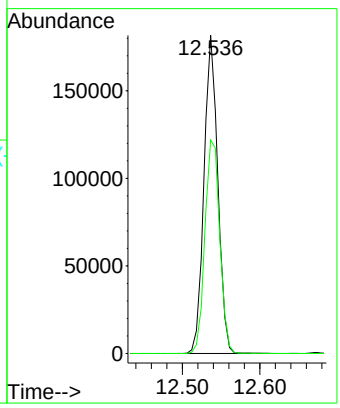




#90
Hexachloroethane
Concen: 167.017 ug/l
RT: 12.536 min Scan# 18
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion:117 Resp: 224919

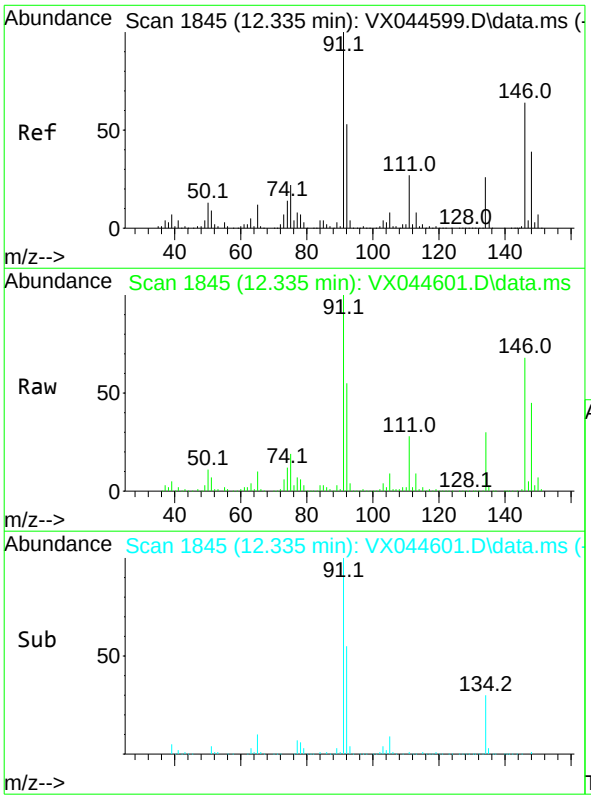
Ion	Ratio	Lower	Upper
117	100		
201	72.1	33.6	100.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

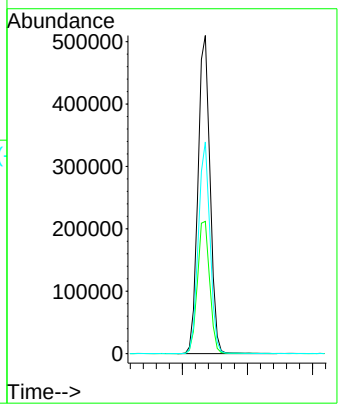
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

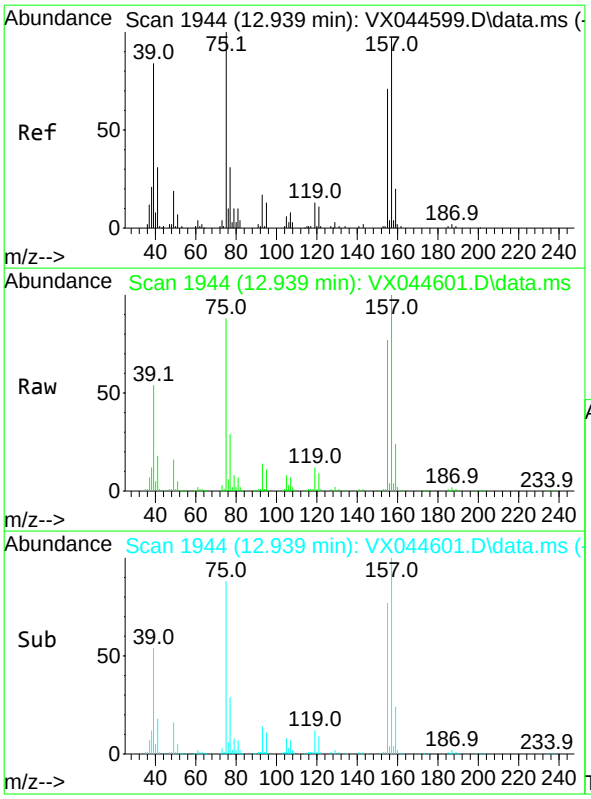


#91
1,2-Dichlorobenzene
Concen: 148.671 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion:146 Resp: 656010

Ion	Ratio	Lower	Upper
146	100		
111	42.3	21.8	65.4
148	64.3	31.1	93.3

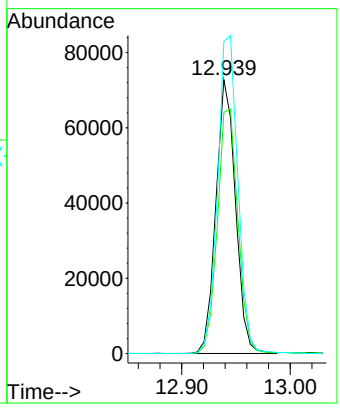




#92
1,2-Dibromo-3-Chloropropane
Concen: 149.956 ug/l
RT: 12.939 min Scan# 19
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 75 Resp: 91050

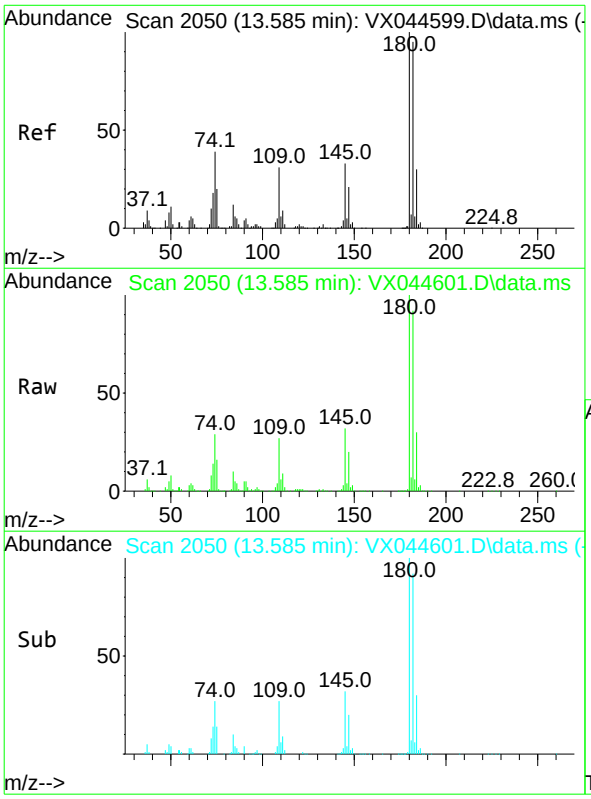
Ion	Ratio	Lower	Upper
75	100		
155	94.2	37.4	112.1
157	120.0	48.0	144.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

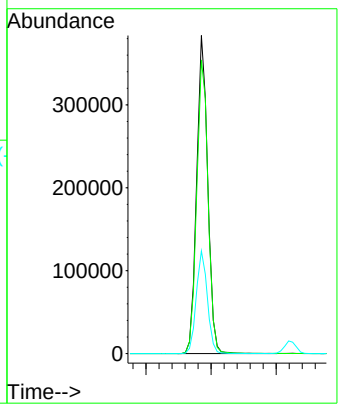
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

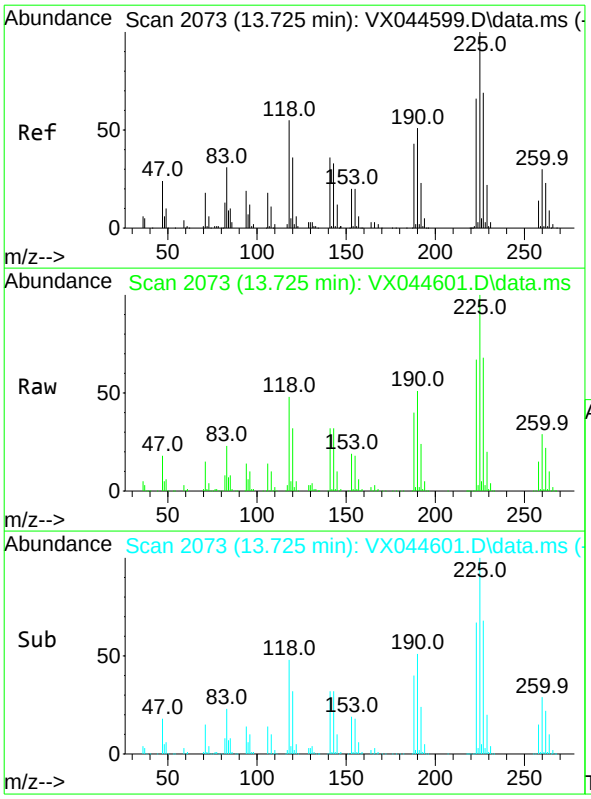


#93
1,2,4-Trichlorobenzene
Concen: 174.156 ug/l
RT: 13.585 min Scan# 2050
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion:180 Resp: 451648

Ion	Ratio	Lower	Upper
180	100		
182	94.7	47.9	143.6
145	32.4	16.3	48.9

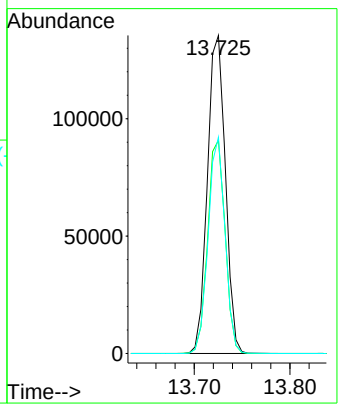




#94
Hexachlorobutadiene
Concen: 163.433 ug/l
RT: 13.725 min Scan# 20
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion:225 Resp: 176486

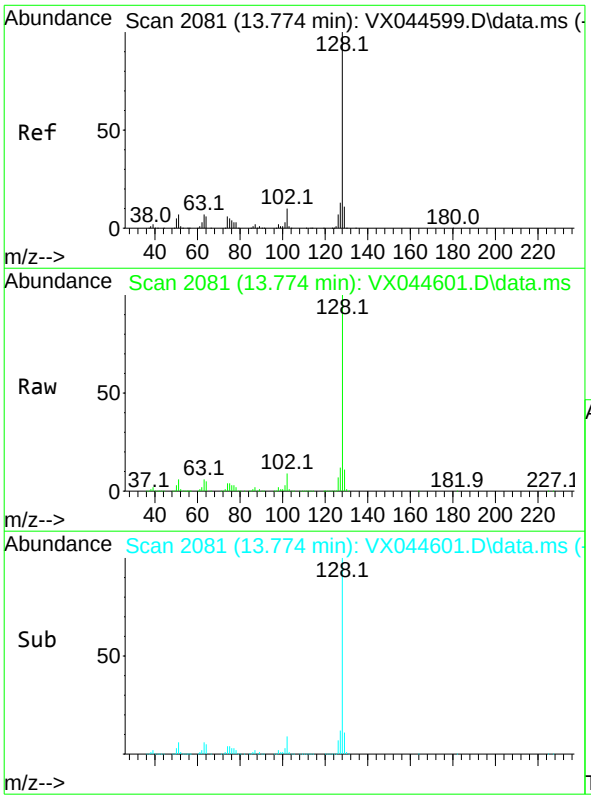
Ion	Ratio	Lower	Upper
225	100		
223	65.1	31.6	94.8
227	63.8	31.9	95.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

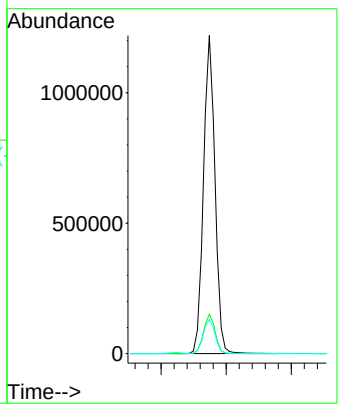
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

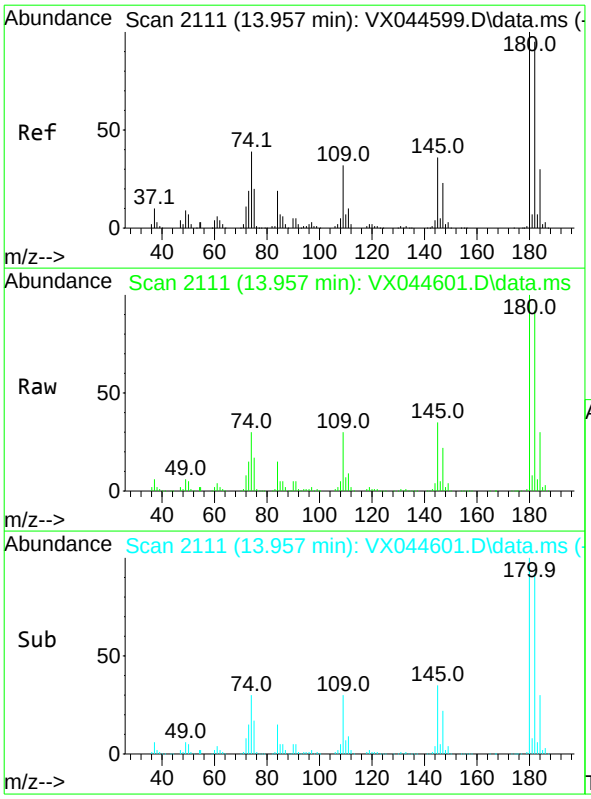


#95
Naphthalene
Concen: 178.076 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion:128 Resp: 1490078

Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.5	15.7
129	11.0	8.6	13.0

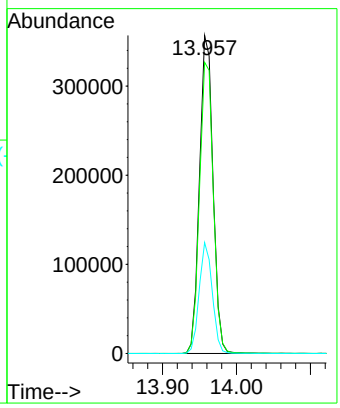




#96
1,2,3-Trichlorobenzene
Concen: 170.608 ug/l
RT: 13.957 min Scan# 21
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion:180 Resp: 452293

Ion	Ratio	Lower	Upper
180	100		
182	93.9	47.6	142.9
145	33.9	17.6	52.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044603.D
Acq On : 07 Jan 2025 15:34
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 08 05:52:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 03:57:12 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Manual Integrations APPROVED
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	189622	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	316532	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	272375	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	142987	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	150566	49.246	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 98.500%			
35) Dibromofluoromethane	5.373	113	107656	49.600	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 99.200%			
50) Toluene-d8	8.641	98	367621	49.585	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.160%			
62) 4-Bromofluorobenzene	11.079	95	150542	57.528	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 115.060%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	137239	50.020	ug/l	98
3) Chloromethane	1.294	50	119576	43.735	ug/l	100
4) Vinyl Chloride	1.374	62	119359	46.536	ug/l	96
5) Bromomethane	1.599	94	65604	49.378	ug/l	98
6) Chloroethane	1.666	64	70231	47.863	ug/l	93
7) Trichlorofluoromethane	1.874	101	201266	52.700	ug/l	99
8) Diethyl Ether	2.130	74	73413	54.402	ug/l	90
9) 1,1,2-Trichlorotrifluo...	2.319	101	110421	50.428	ug/l	99
10) Methyl Iodide	2.447	142	139874	45.809	ug/l	98
11) Tert butyl alcohol	2.983	59	95337	253.232	ug/l	100
12) 1,1-Dichloroethene	2.313	96	98796	46.573	ug/l	96
13) Acrolein	2.233	56	124124	249.358	ug/l	99
14) Allyl chloride	2.654	41	176735	50.095	ug/l	98
15) Acrylonitrile	3.056	53	276827	255.311	ug/l	99
16) Acetone	2.380	43	260807	270.648	ug/l	100
17) Carbon Disulfide	2.502	76	227180	51.792	ug/l	99
18) Methyl Acetate	2.697	43	146236	51.415	ug/l	98
19) Methyl tert-butyl Ether	3.111	73	365335	50.254	ug/l	98
20) Methylene Chloride	2.782	84	111866	45.503	ug/l	97
21) trans-1,2-Dichloroethene	3.081	96	104553	48.023	ug/l	94
22) Diisopropyl ether	3.757	45	360215	49.668	ug/l	93
23) Vinyl Acetate	3.715	43	1599276	272.695	ug/l	100
24) 1,1-Dichloroethane	3.599	63	203388	48.129	ug/l	99
25) 2-Butanone	4.550	43	387604	278.669	ug/l	98
26) 2,2-Dichloropropane	4.471	77	188592	51.617	ug/l	98
27) cis-1,2-Dichloroethene	4.477	96	124341	46.837	ug/l	98
28) Bromochloromethane	4.885	49	100146	50.910	ug/l	96
29) Tetrahydrofuran	5.001	42	245915	258.181	ug/l	99
30) Chloroform	5.080	83	215072	47.209	ug/l	99
31) Cyclohexane	5.458	56	172928	49.840	ug/l	92
32) 1,1,1-Trichloroethane	5.373	97	196434	51.235	ug/l	99
36) 1,1-Dichloropropene	5.684	75	141163	50.296	ug/l	99
37) Ethyl Acetate	4.702	43	159354	55.503	ug/l	99
38) Carbon Tetrachloride	5.666	117	162259	52.106	ug/l	95
39) Methylcyclohexane	7.373	83	184835	51.612	ug/l	98
40) Benzene	6.025	78	423783	47.956	ug/l	100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044603.D
Acq On : 07 Jan 2025 15:34
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 08 05:52:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 03:57:12 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Manual Integrations APPROVED

Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.910	41	86868	56.367	ug/l		98
42) 1,2-Dichloroethane	6.074	62	178591	51.677	ug/l		99
43) Isopropyl Acetate	6.330	43	260884	55.077	ug/l		100
44) Trichloroethene	7.117	130	105105	46.528	ug/l		99
45) 1,2-Dichloropropane	7.421	63	104909	48.692	ug/l		96
46) Dibromomethane	7.574	93	82661	49.332	ug/l		99
47) Bromodichloromethane	7.818	83	157989	51.813	ug/l		98
48) Methyl methacrylate	7.690	41	129253	57.212	ug/l		97
49) 1,4-Dioxane	7.659	88	34995	1054.109	ug/l		97
51) 4-Methyl-2-Pentanone	8.568	43	781060	282.088	ug/l		99
52) Toluene	8.714	92	266026	49.893	ug/l		96
53) t-1,3-Dichloropropene	8.976	75	161793	55.511	ug/l		97
54) cis-1,3-Dichloropropene	8.360	75	174299	53.210	ug/l		97
55) 1,1,2-Trichloroethane	9.147	97	101873	48.736	ug/l		96
56) Ethyl methacrylate	9.110	69	166968	54.925	ug/l		97
57) 1,3-Dichloropropane	9.305	76	179394	51.108	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	388986	258.112	ug/l		99
59) 2-Hexanone	9.427	43	572995	292.615	ug/l		99
60) Dibromochloromethane	9.519	129	114110	54.749	ug/l		98
61) 1,2-Dibromoethane	9.604	107	108755	51.516	ug/l		97
64) Tetrachloroethene	9.269	164	92504	48.035	ug/l		99
65) Chlorobenzene	10.073	112	284281	49.177	ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.159	131	99668	51.911	ug/l		97
67) Ethyl Benzene	10.189	91	508409	51.215	ug/l		99
68) m/p-Xylenes	10.299	106	375022	102.808	ug/l		99
69) o-Xylene	10.640	106	182474	49.559	ug/l		99
70) Styrene	10.653	104	308264	52.345	ug/l		99
71) Bromoform	10.799	173	68778	51.015	ug/l	#	99
73) Isopropylbenzene	10.957	105	548529	51.780	ug/l		99
74) N-amyl acetate	10.842	43	222407	51.742	ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.207	83	172209	50.433	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	147424m	51.433	ug/l		
77) Bromobenzene	11.195	156	129350	50.264	ug/l		97
78) n-propylbenzene	11.299	91	619242	51.897	ug/l		98
79) 2-Chlorotoluene	11.360	91	372370	48.159	ug/l		100
80) 1,3,5-Trimethylbenzene	11.451	105	448527	51.065	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	52615	55.876	ug/l		95
82) 4-Chlorotoluene	11.451	91	425096	48.871	ug/l		99
83) tert-Butylbenzene	11.713	119	456871	52.238	ug/l		98
84) 1,2,4-Trimethylbenzene	11.750	105	458866	52.007	ug/l		99
85) sec-Butylbenzene	11.890	105	557449	52.335	ug/l		100
86) p-Isopropyltoluene	12.006	119	471864	52.797	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	234785	50.434	ug/l		99
88) 1,4-Dichlorobenzene	12.036	146	232239	47.881	ug/l		99
89) n-Butylbenzene	12.329	91	401929	53.259	ug/l		98
90) Hexachloroethane	12.536	117	74415	51.831	ug/l		98
91) 1,2-Dichlorobenzene	12.335	146	228094	48.487	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.939	75	35205	54.385	ug/l		97
93) 1,2,4-Trichlorobenzene	13.585	180	141302	51.107	ug/l		98
94) Hexachlorobutadiene	13.725	225	60585	52.624	ug/l		99
95) Naphthalene	13.774	128	505215	56.632	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	137582	48.678	ug/l		100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044603.D
Acq On : 07 Jan 2025 15:34
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 08 05:52:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 03:57:12 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Manual Integrations APPROVED

Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

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

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

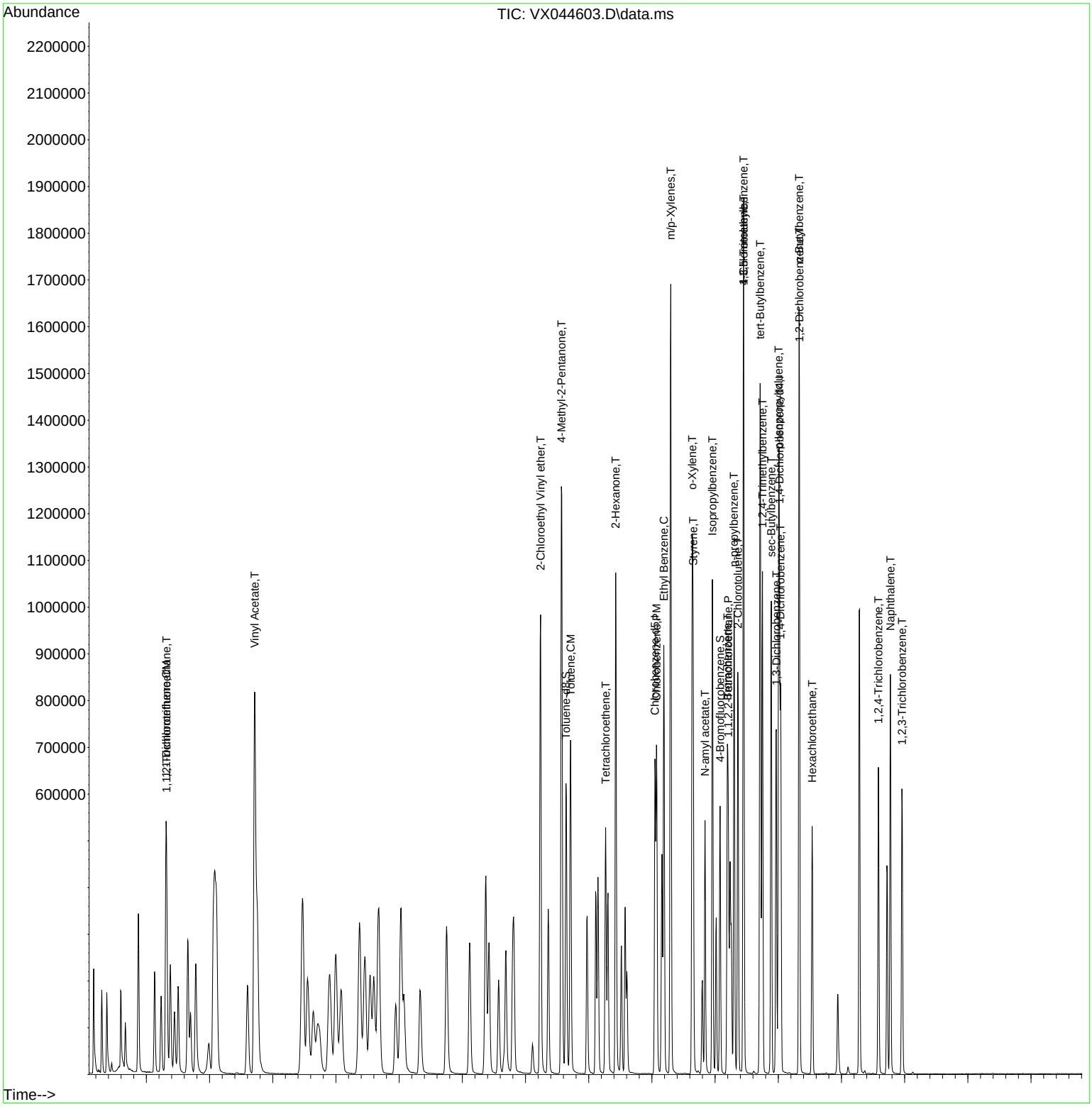
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044603.D
Acq On : 07 Jan 2025 15:34
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

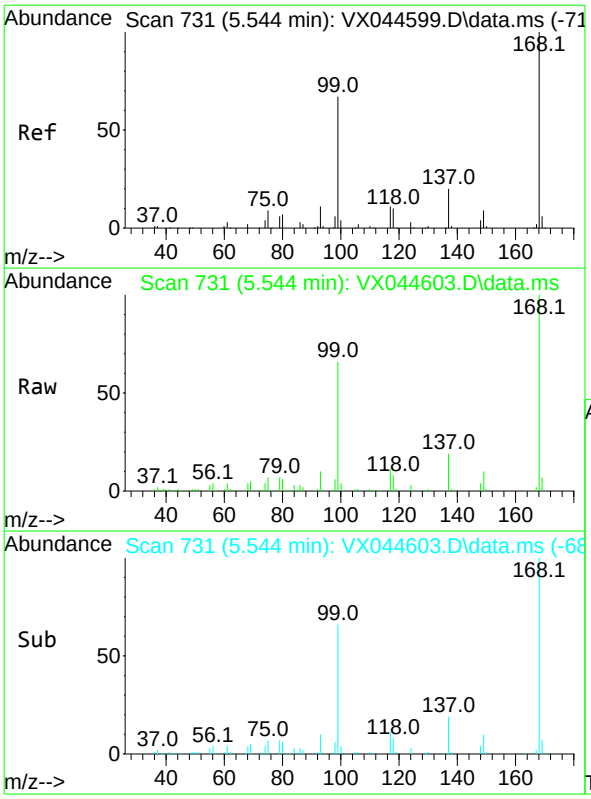
Quant Time: Jan 08 05:52:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 03:57:12 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Manual Integrations APPROVED

Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

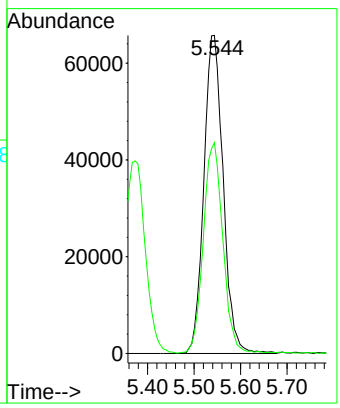




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 73
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion:168 Resp: 189622

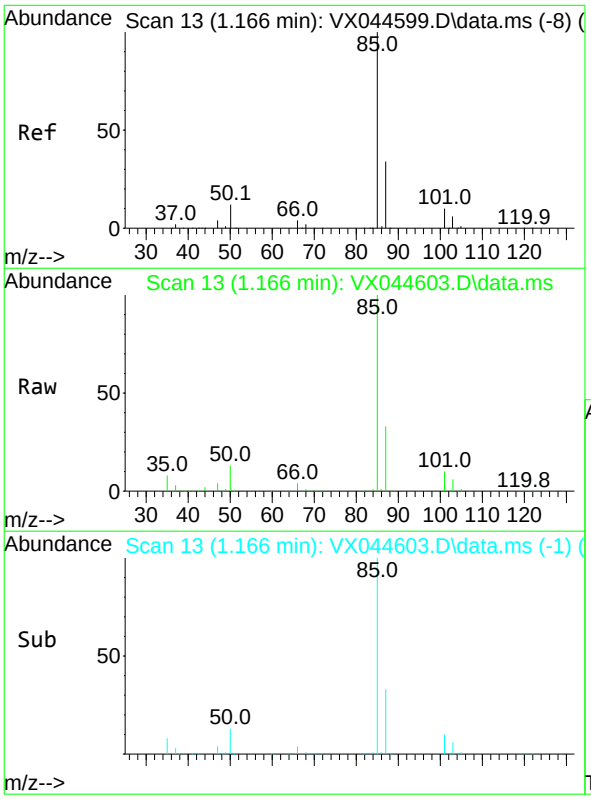
Ion	Ratio	Lower	Upper
168	100		
99	66.2	53.5	80.3



Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Manual Integrations APPROVED

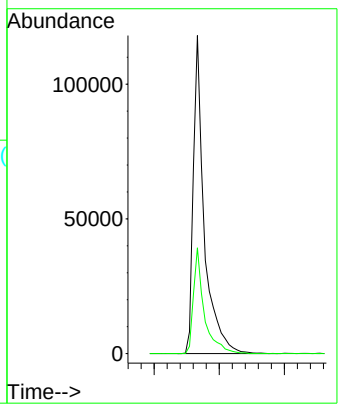
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

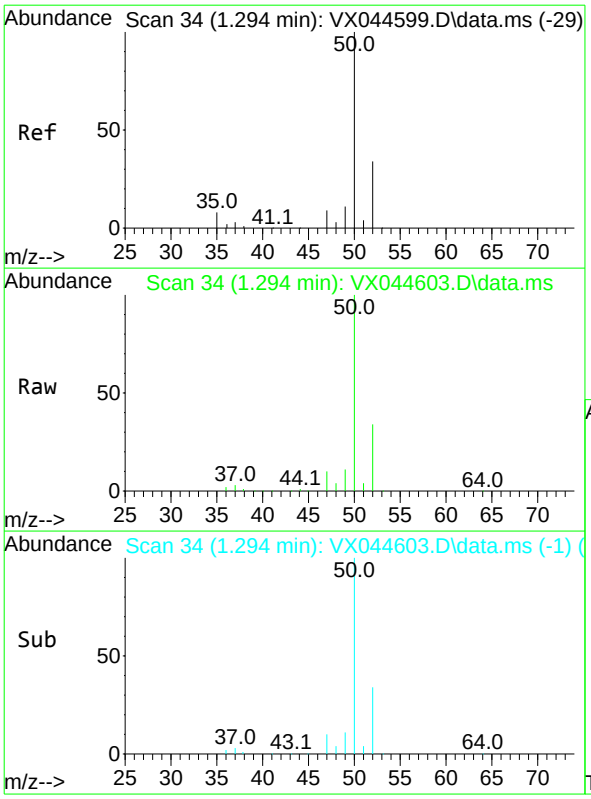


#2
Dichlorodifluoromethane
Concen: 50.020 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 85 Resp: 137239

Ion	Ratio	Lower	Upper
85	100		
87	33.3	17.2	51.5

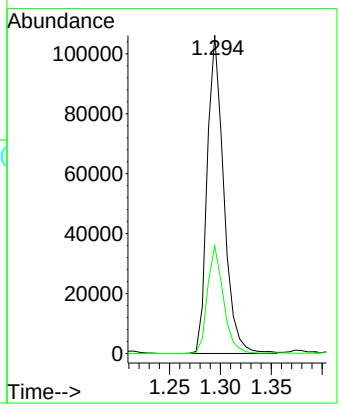




#3
Chloromethane
Concen: 43.735 ug/l
RT: 1.294 min Scan# 34
Delta R.T. 0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 50 Resp: 119576

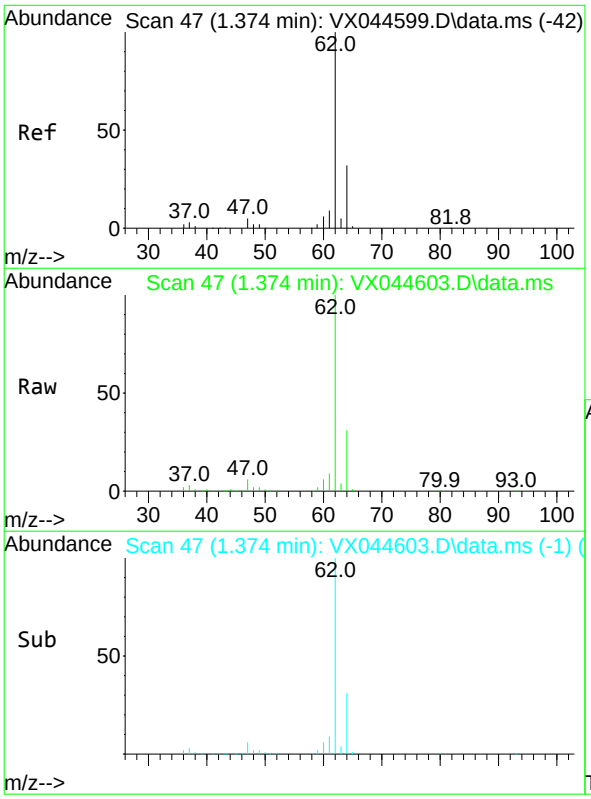
Ion	Ratio	Lower	Upper
50	100		
52	33.8	27.0	40.4



Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Manual Integrations APPROVED

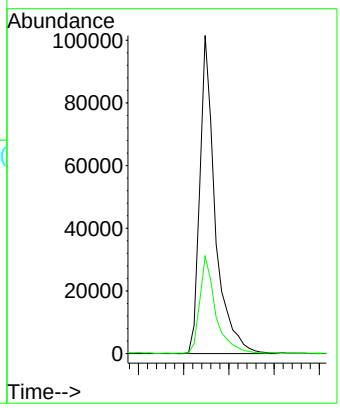
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

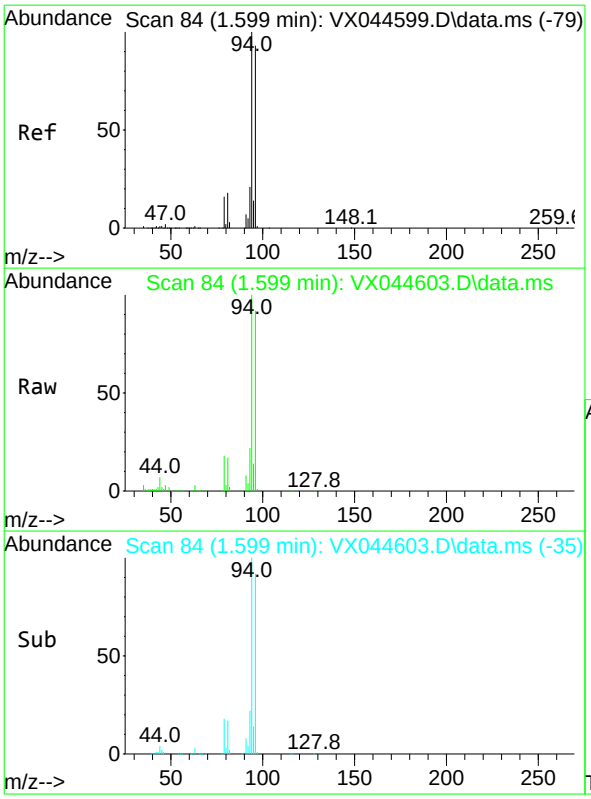


#4
Vinyl Chloride
Concen: 46.536 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 62 Resp: 119359

Ion	Ratio	Lower	Upper
62	100		
64	30.4	26.0	39.0

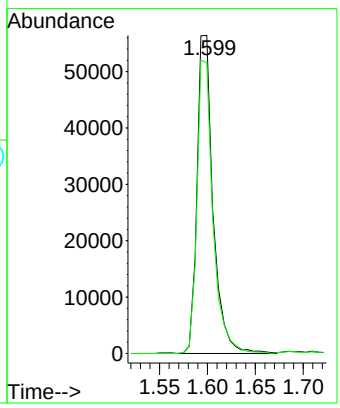




#5
Bromomethane
Concen: 49.378 ug/l
RT: 1.599 min Scan# 84
Delta R.T. 0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 94 Resp: 65604

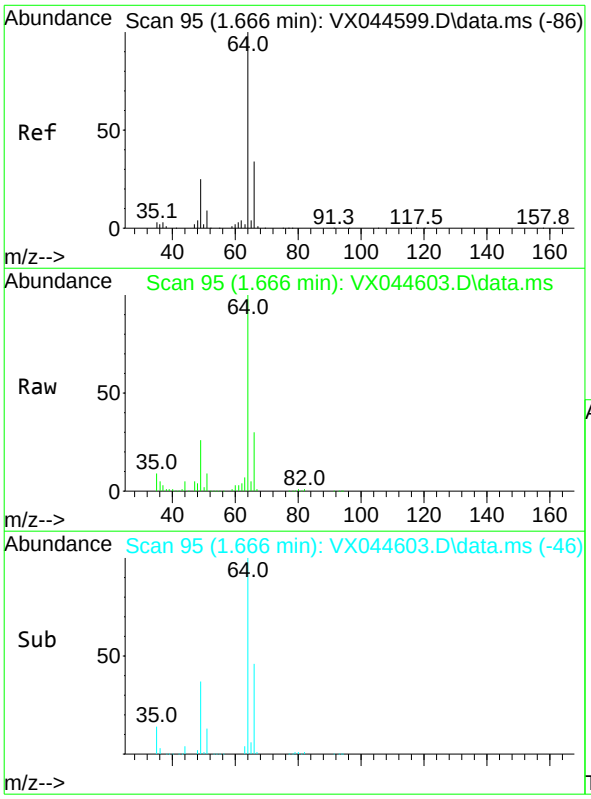
Ion	Ratio	Lower	Upper
94	100		
96	91.5	74.6	112.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Manual Integrations APPROVED

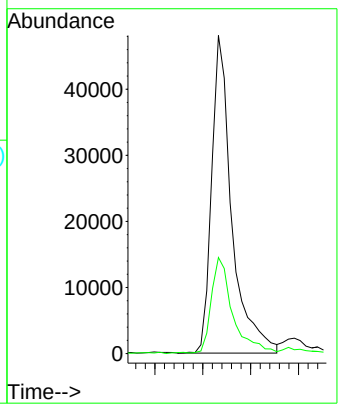
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

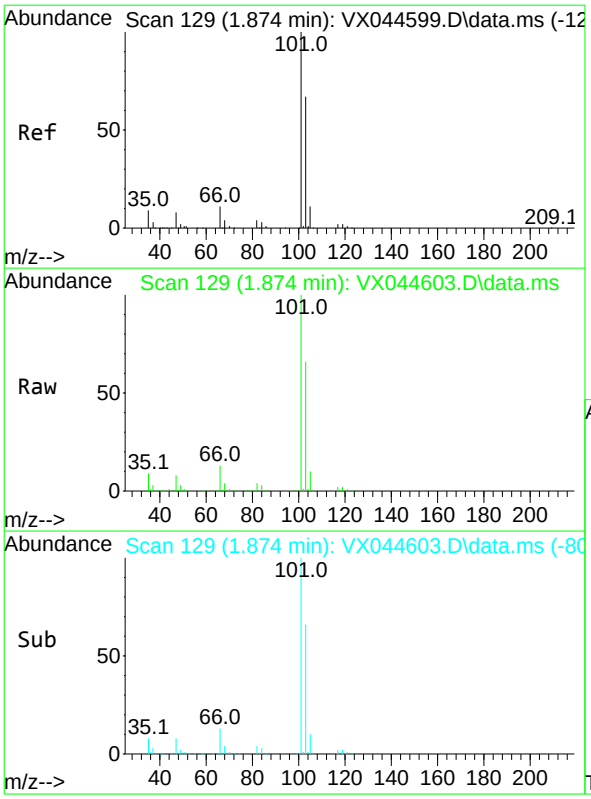


#6
Chloroethane
Concen: 47.863 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 64 Resp: 70231

Ion	Ratio	Lower	Upper
64	100		
66	30.0	27.3	40.9

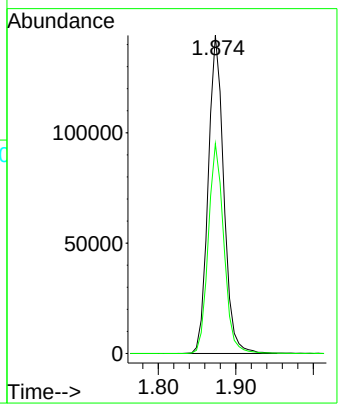




#7
Trichlorofluoromethane
Concen: 52.700 ug/l
RT: 1.874 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion:101 Resp: 201266

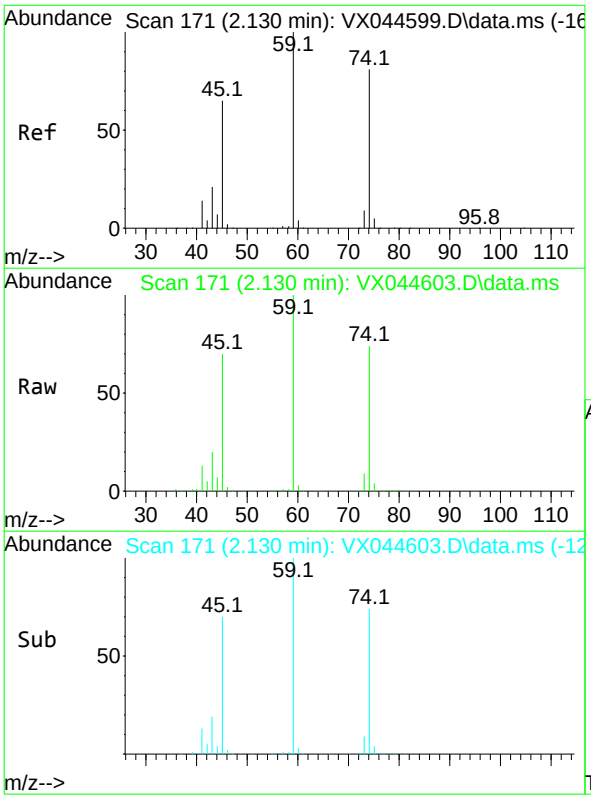
Ion	Ratio	Lower	Upper
101	100		
103	65.9	53.3	79.9



Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Manual Integrations APPROVED

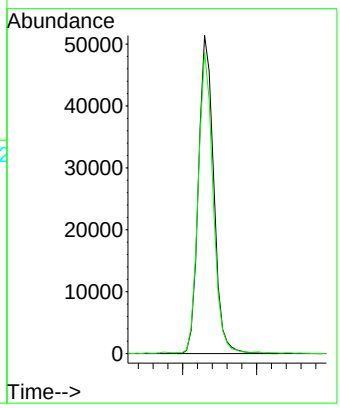
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

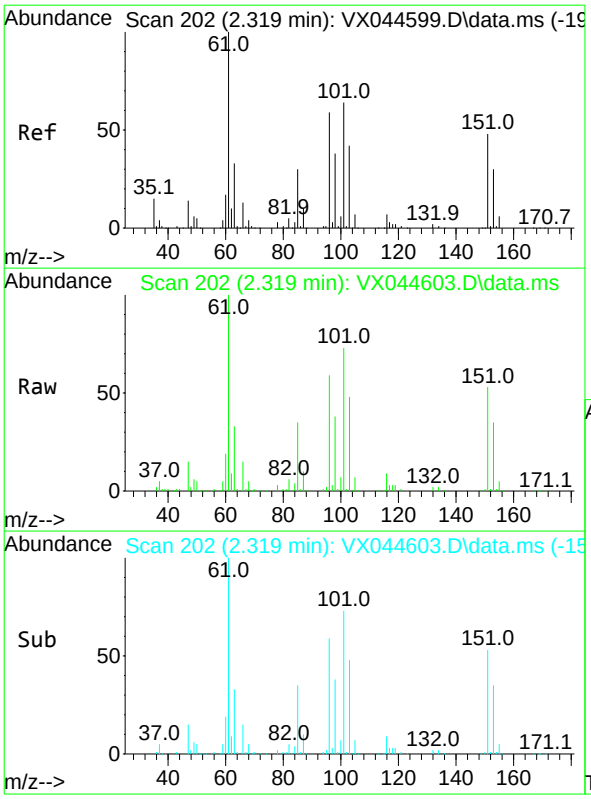


#8
Diethyl Ether
Concen: 54.402 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 74 Resp: 73413

Ion	Ratio	Lower	Upper
74	100		
45	92.8	41.7	125.1

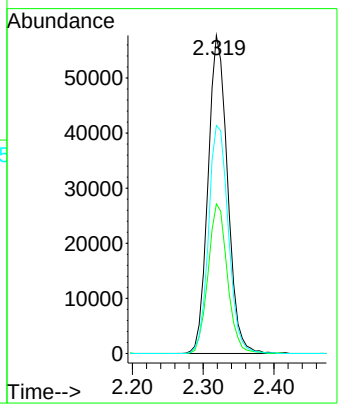




#9
1,1,2-Trichlorotrifluoroethane
Concen: 50.428 ug/l
RT: 2.319 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion:101 Resp: 110421

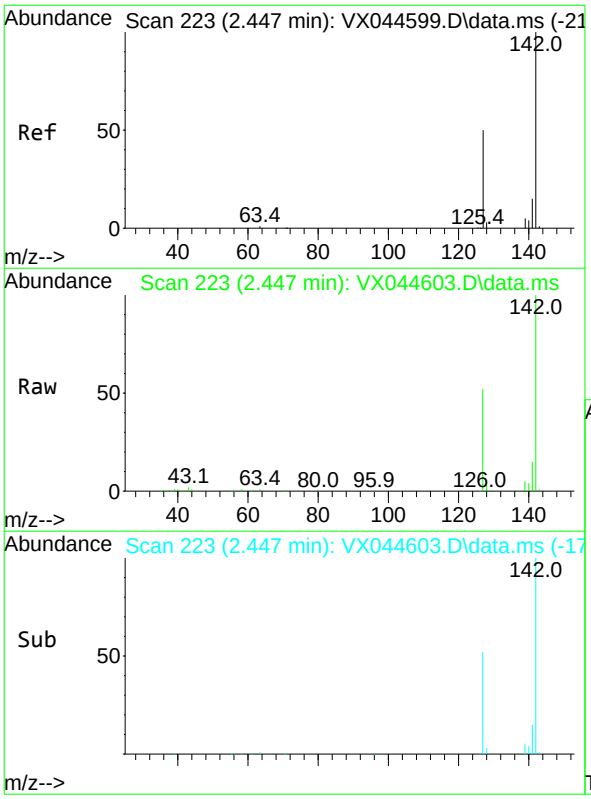
Ion	Ratio	Lower	Upper
101	100		
85	46.7	36.5	54.7
151	73.1	58.6	87.8



Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Manual Integrations APPROVED

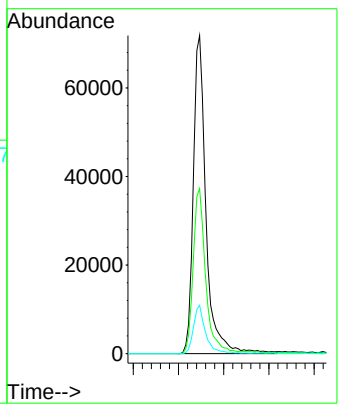
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

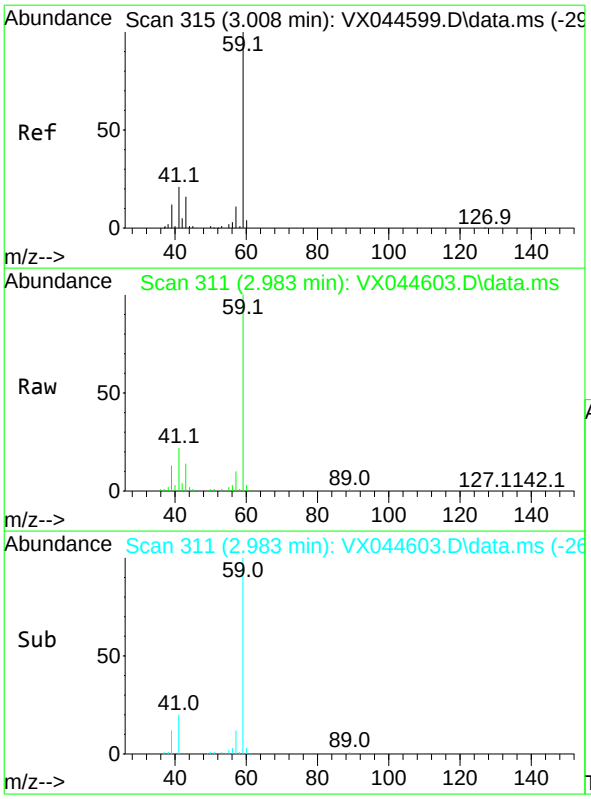


#10
Methyl Iodide
Concen: 45.809 ug/l
RT: 2.447 min Scan# 223
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion:142 Resp: 139874

Ion	Ratio	Lower	Upper
142	100		
127	51.1	41.9	62.9
141	14.5	11.8	17.6

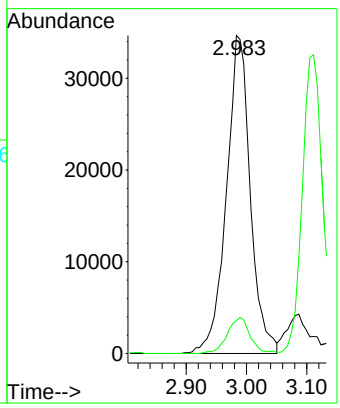




#11
Tert butyl alcohol
Concen: 253.232 ug/l
RT: 2.983 min Scan# 31
Delta R.T. -0.024 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 59 Resp: 95337

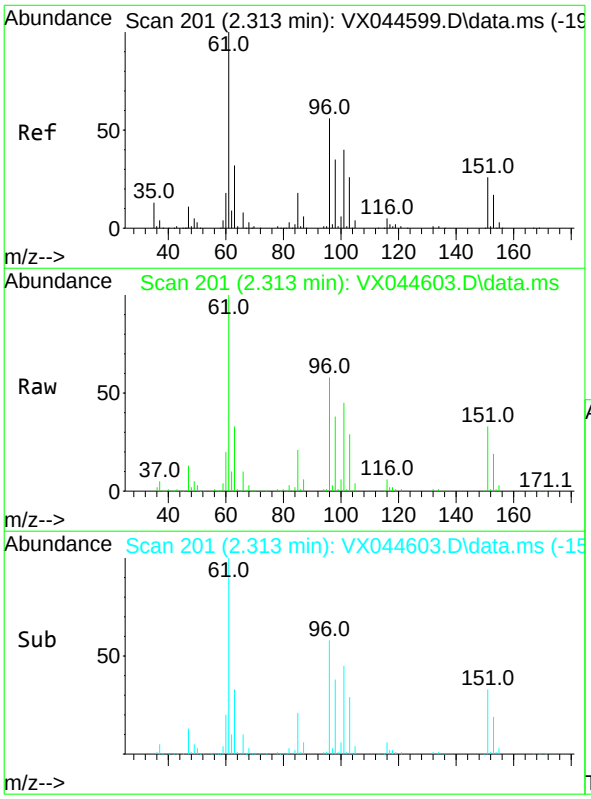
Ion	Ratio	Lower	Upper
59	100		
57	10.9	8.6	12.8



Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Manual Integrations APPROVED

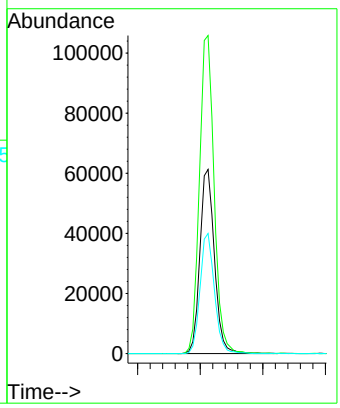
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

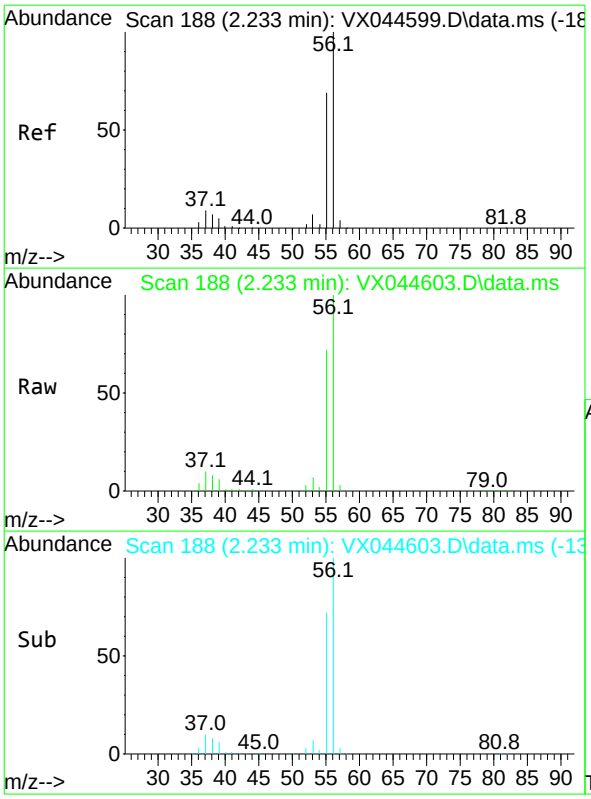


#12
1,1-Dichloroethene
Concen: 46.573 ug/l
RT: 2.313 min Scan# 201
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 96 Resp: 98796

Ion	Ratio	Lower	Upper
96	100		
61	172.7	143.3	214.9
98	65.2	50.6	76.0

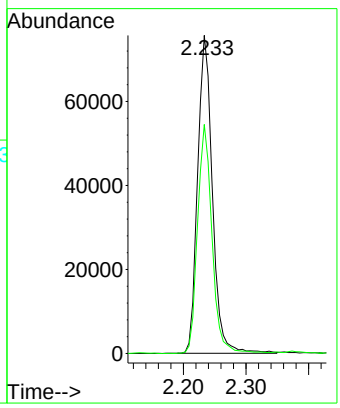




#13
Acrolein
Concen: 249.358 ug/l
RT: 2.233 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 56 Resp: 124124

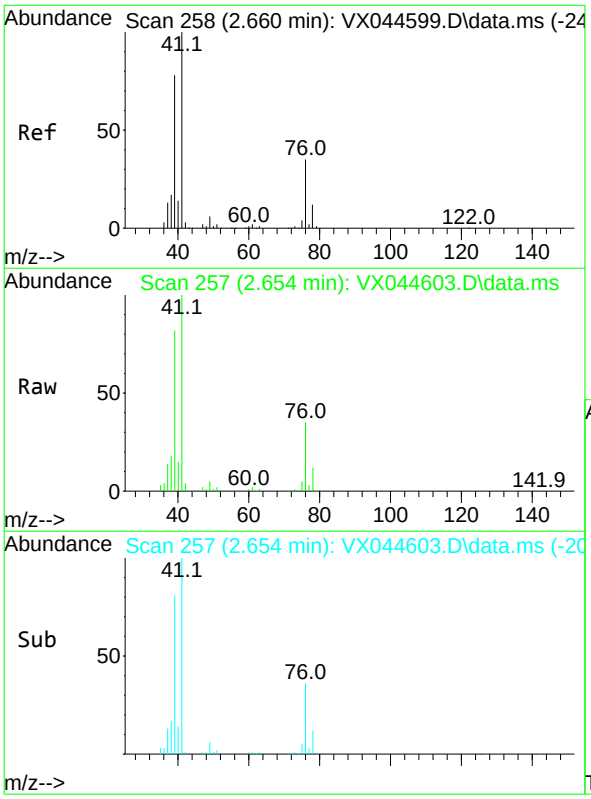
Ion	Ratio	Lower	Upper
56	100		
55	70.7	55.8	83.8



Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Manual Integrations APPROVED

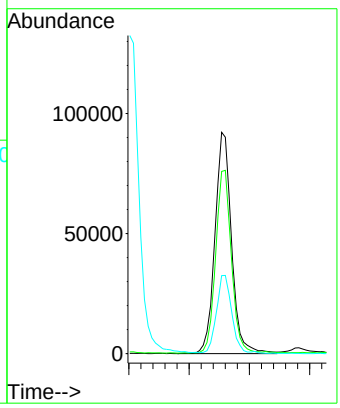
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

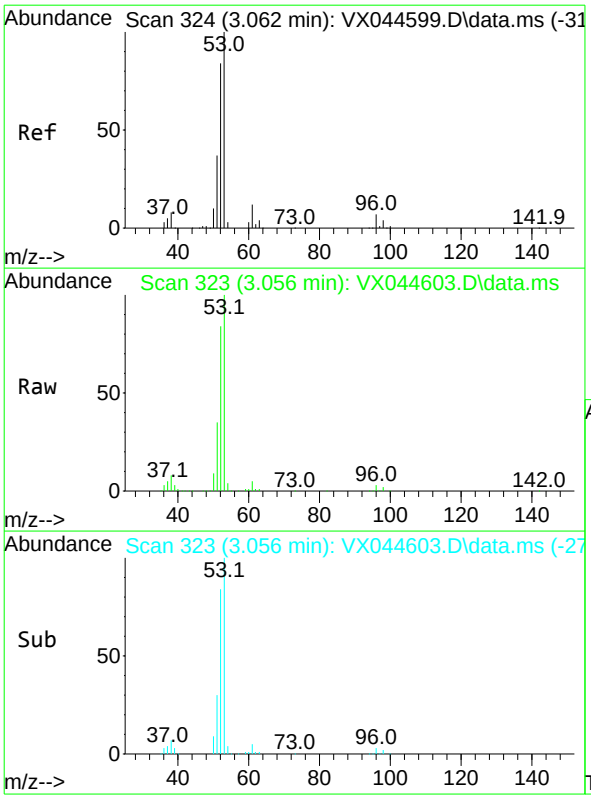


#14
Allyl chloride
Concen: 50.095 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.006 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 41 Resp: 176735

Ion	Ratio	Lower	Upper
41	100		
39	78.1	60.2	90.2
76	32.5	25.9	38.9

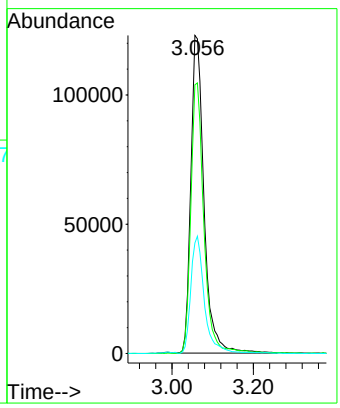




#15
Acrylonitrile
Concen: 255.311 ug/l
RT: 3.056 min Scan# 32
Delta R.T. -0.006 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 53 Resp: 276827

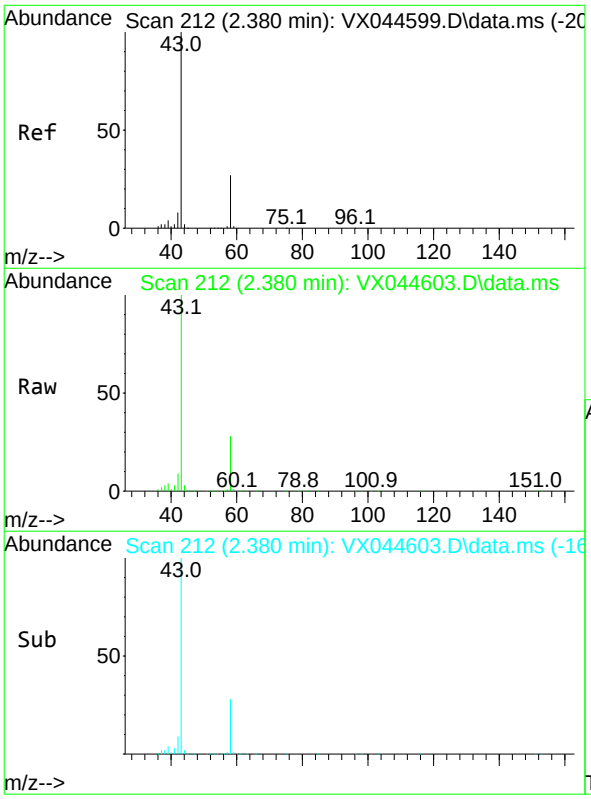
Ion	Ratio	Lower	Upper
53	100		
52	83.7	67.0	100.6
51	37.7	29.4	44.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Manual Integrations
APPROVED

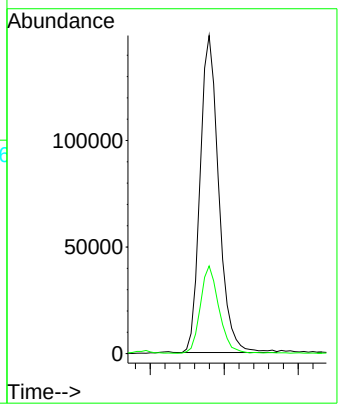
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

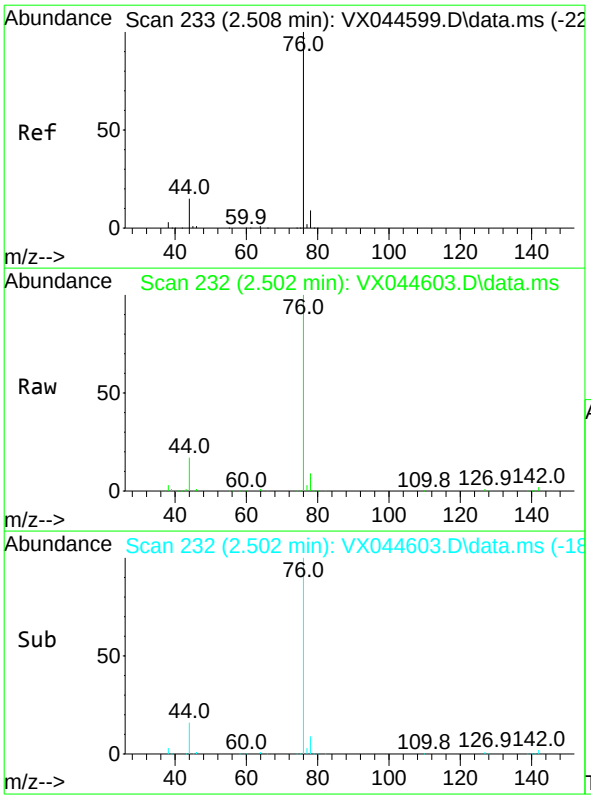


#16
Acetone
Concen: 270.648 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 43 Resp: 260807

Ion	Ratio	Lower	Upper
43	100		
58	27.5	22.0	33.0

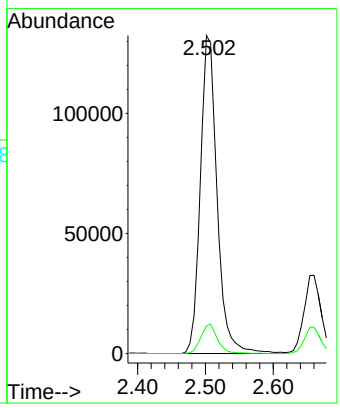




#17
Carbon Disulfide
Concen: 51.792 ug/l
RT: 2.502 min Scan# 23
Delta R.T. -0.006 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 76 Resp: 227180

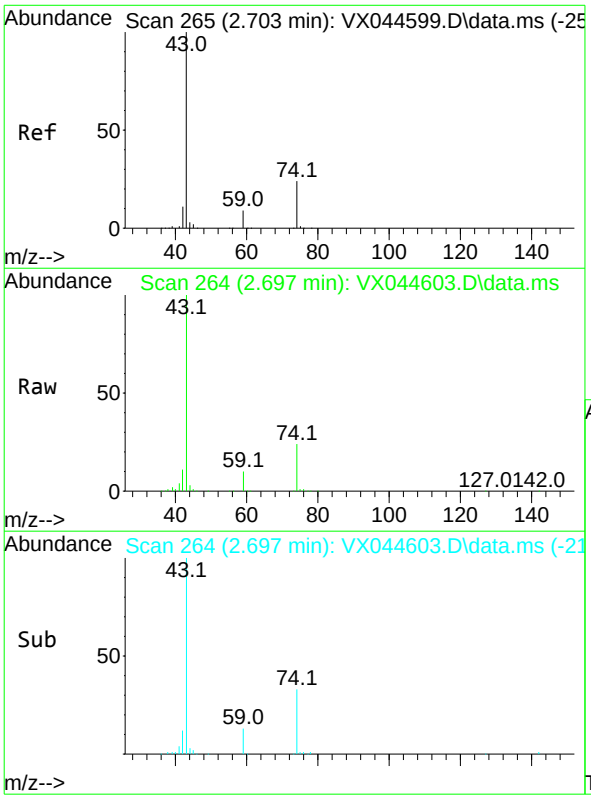
Ion	Ratio	Lower	Upper
76	100		
78	8.7	7.1	10.7



Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Manual Integrations APPROVED

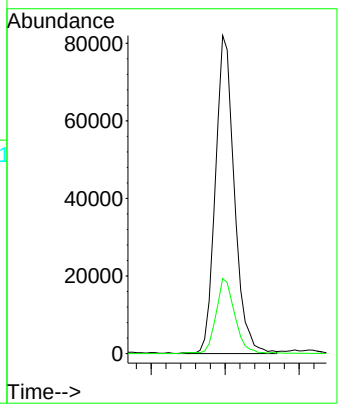
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

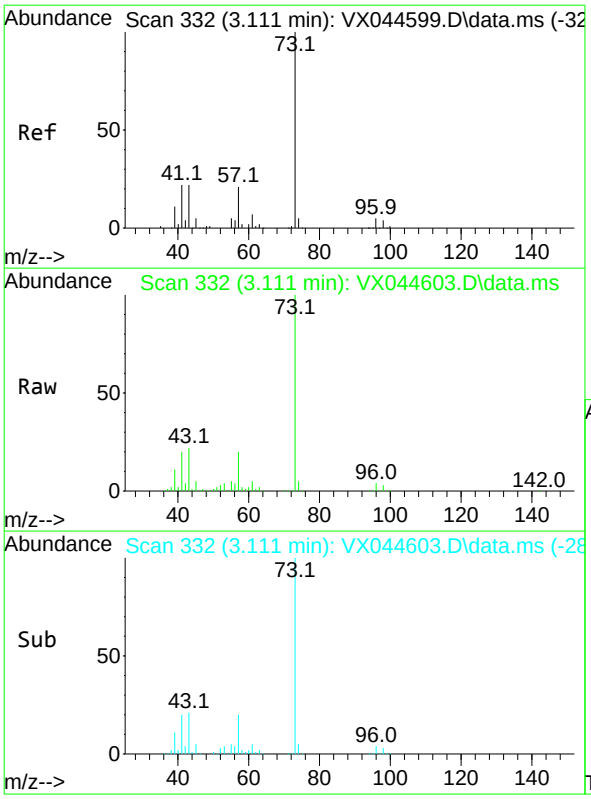


#18
Methyl Acetate
Concen: 51.415 ug/l
RT: 2.697 min Scan# 264
Delta R.T. -0.006 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 43 Resp: 146236

Ion	Ratio	Lower	Upper
43	100		
74	23.3	19.3	28.9

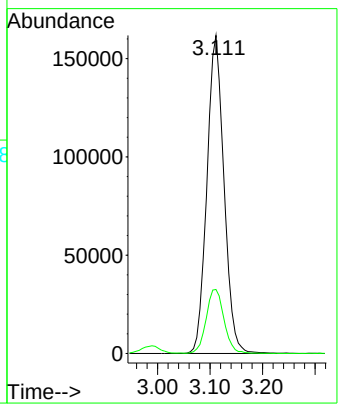




#19
Methyl tert-butyl Ether
Concen: 50.254 ug/l
RT: 3.111 min Scan# 33
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 73 Resp: 365335

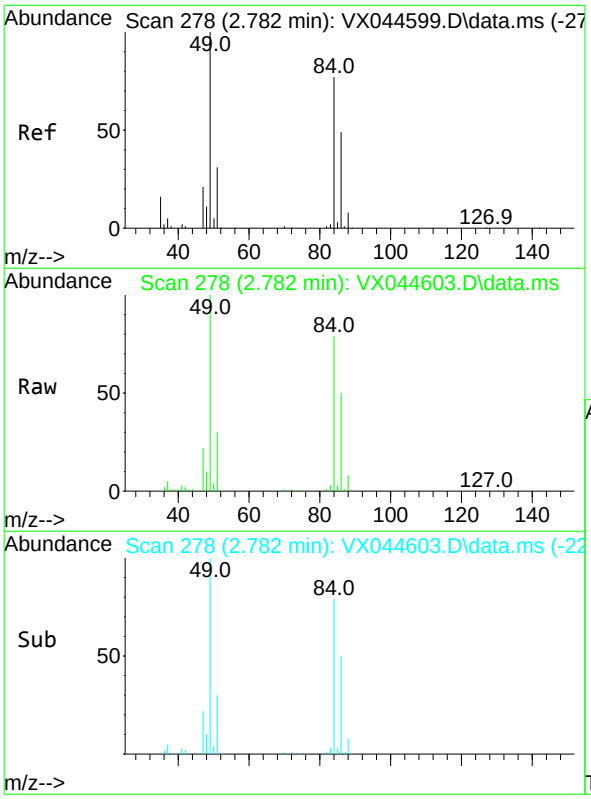
Ion	Ratio	Lower	Upper
73	100		
57	20.0	17.0	25.4



Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Manual Integrations APPROVED

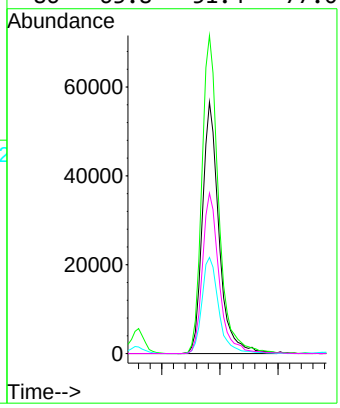
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

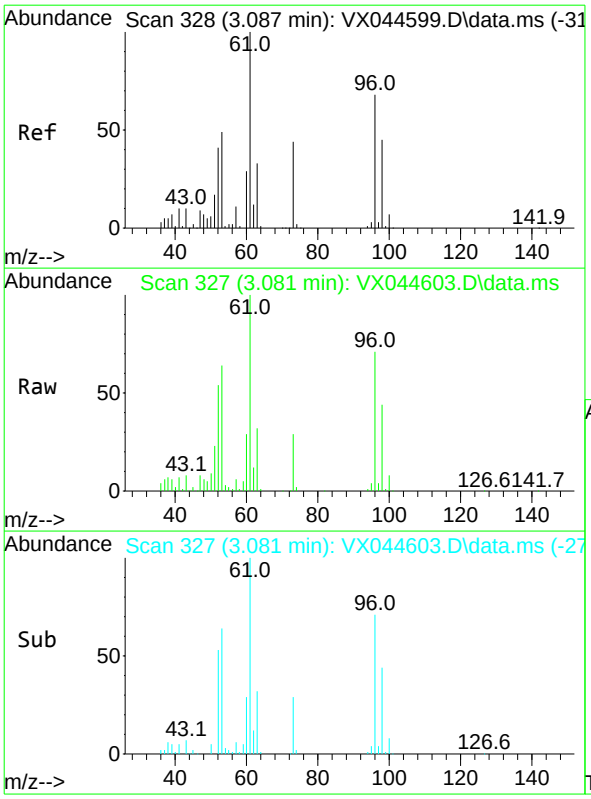


#20
Methylene Chloride
Concen: 45.503 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 84 Resp: 111866

Ion	Ratio	Lower	Upper
84	100		
49	126.5	104.4	156.6
51	38.3	32.0	48.0
86	63.8	51.4	77.0

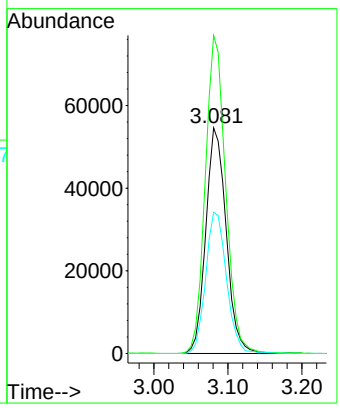




#21
trans-1,2-Dichloroethene
Concen: 48.023 ug/l
RT: 3.081 min Scan# 32
Delta R.T. -0.006 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 96 Resp: 104553

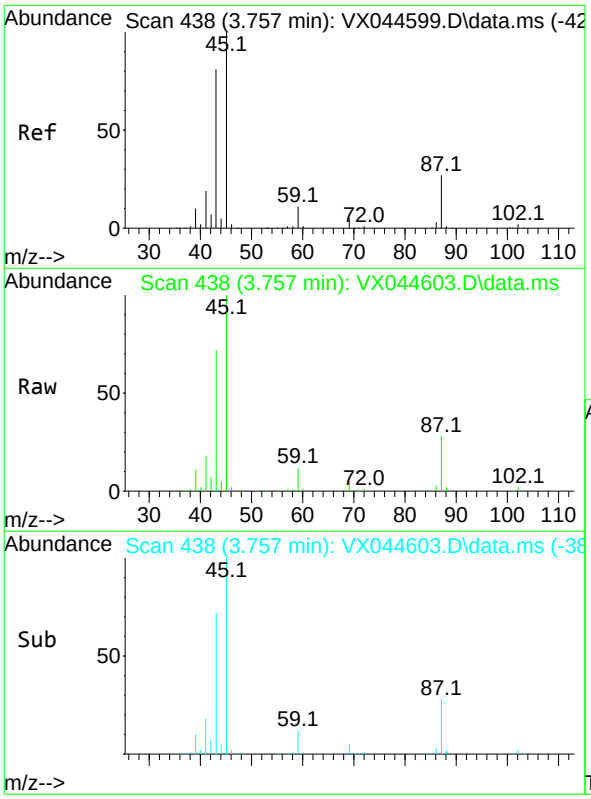
Ion	Ratio	Lower	Upper
96	100		
61	140.9	118.5	177.7
98	62.6	53.4	80.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Manual Integrations APPROVED

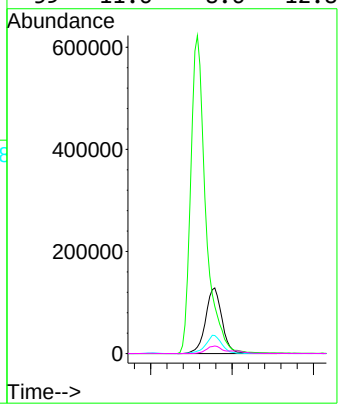
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

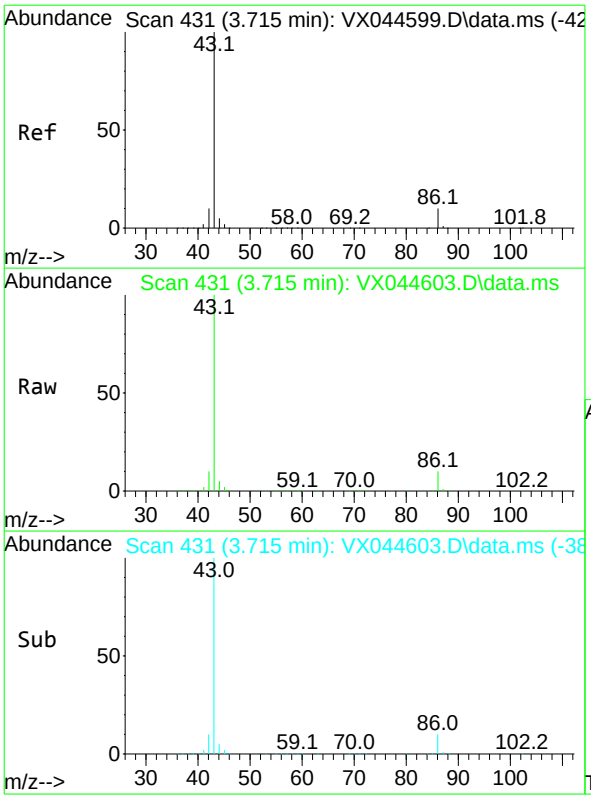


#22
Diisopropyl ether
Concen: 49.668 ug/l
RT: 3.757 min Scan# 438
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 45 Resp: 360215

Ion	Ratio	Lower	Upper
45	100		
43	71.8	64.6	97.0
87	27.5	21.8	32.8
59	11.6	8.6	12.8

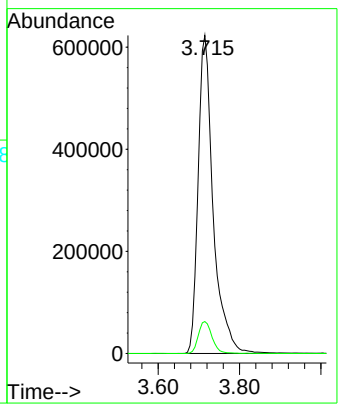




#23
Vinyl Acetate
Concen: 272.695 ug/l
RT: 3.715 min Scan# 43
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 43 Resp: 1599276

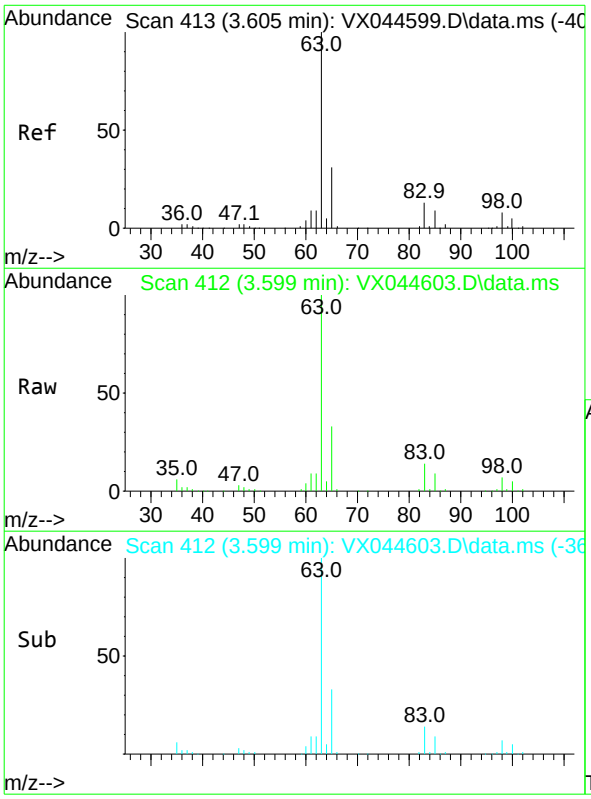
Ion	Ratio	Lower	Upper
43	100		
86	10.0	8.1	12.1



Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Manual Integrations
APPROVED

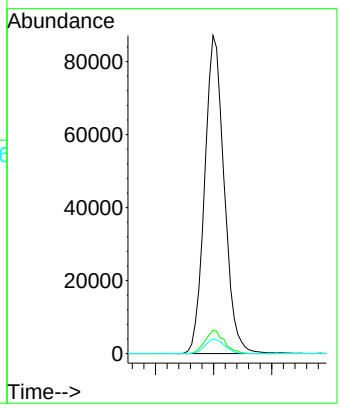
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

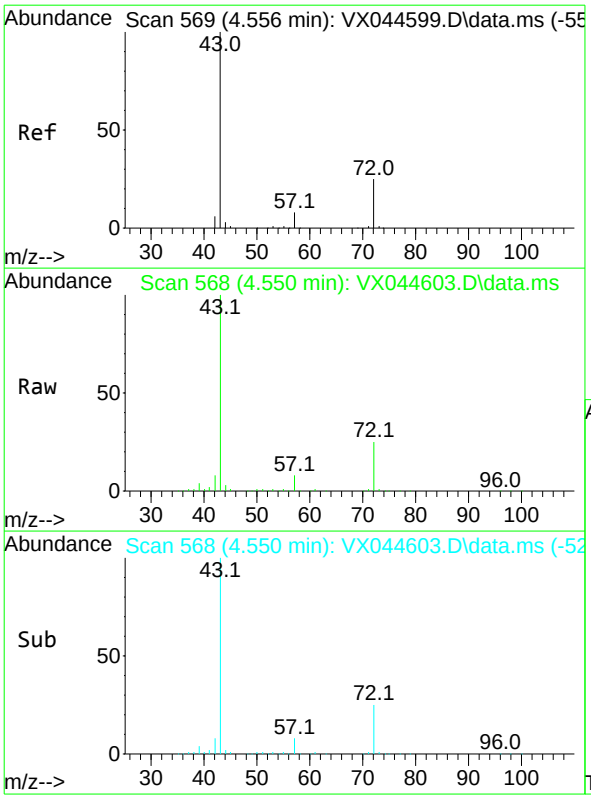


#24
1,1-Dichloroethane
Concen: 48.129 ug/l
RT: 3.599 min Scan# 412
Delta R.T. -0.006 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 63 Resp: 203388

Ion	Ratio	Lower	Upper
63	100		
98	7.3	3.8	11.4
100	4.6	2.4	7.2

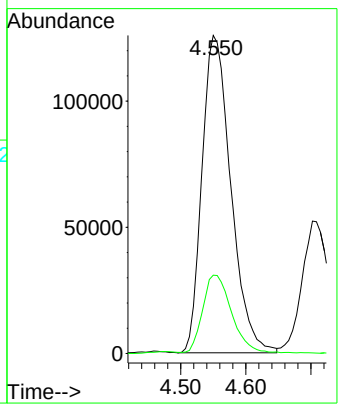




#25
2-Butanone
Concen: 278.669 ug/l
RT: 4.550 min Scan# 56
Delta R.T. -0.006 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 43 Resp: 387604

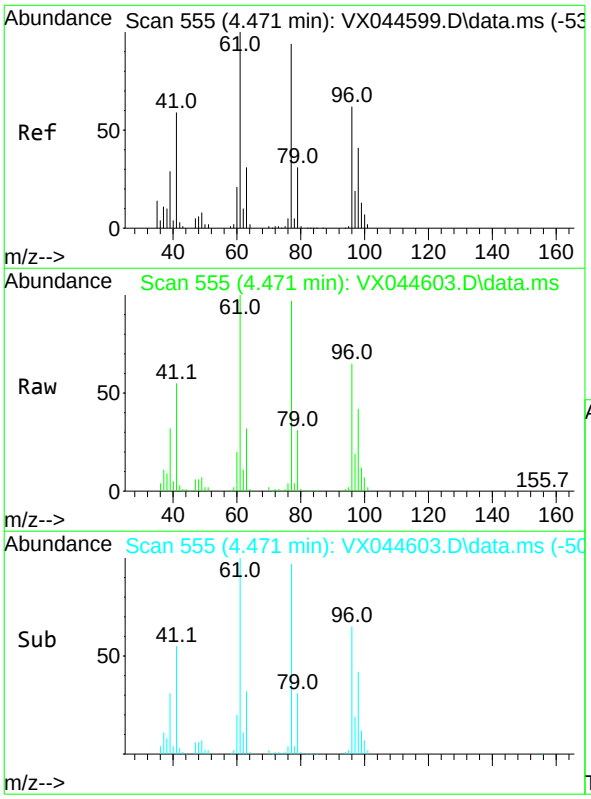
Ion	Ratio	Lower	Upper
43	100		
72	24.3	20.2	30.2



Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Manual Integrations
APPROVED

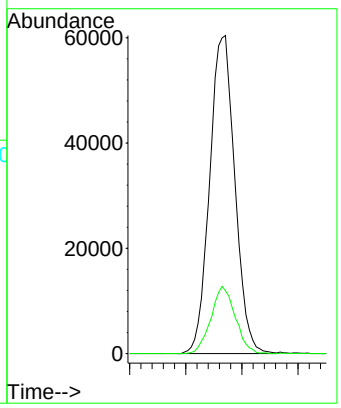
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

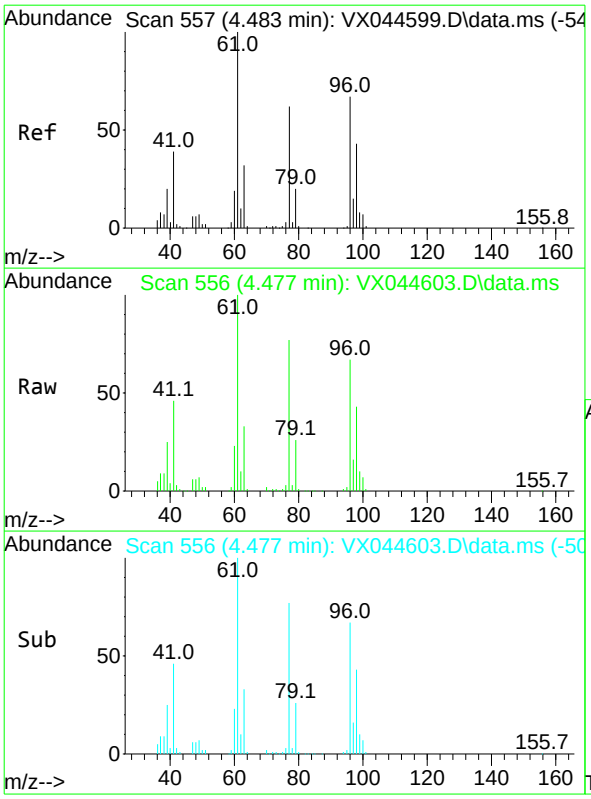


#26
2,2-Dichloropropane
Concen: 51.617 ug/l
RT: 4.471 min Scan# 555
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 77 Resp: 188592

Ion	Ratio	Lower	Upper
77	100		
97	20.4	10.7	32.1

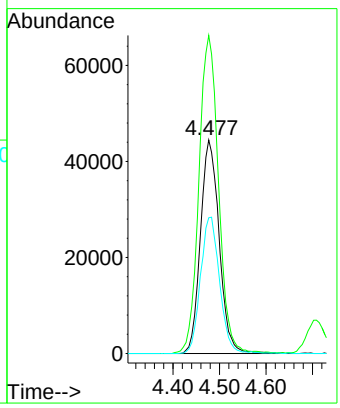




#27
cis-1,2-Dichloroethene
Concen: 46.837 ug/l
RT: 4.477 min Scan# 55
Delta R.T. -0.006 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 96 Resp: 124341

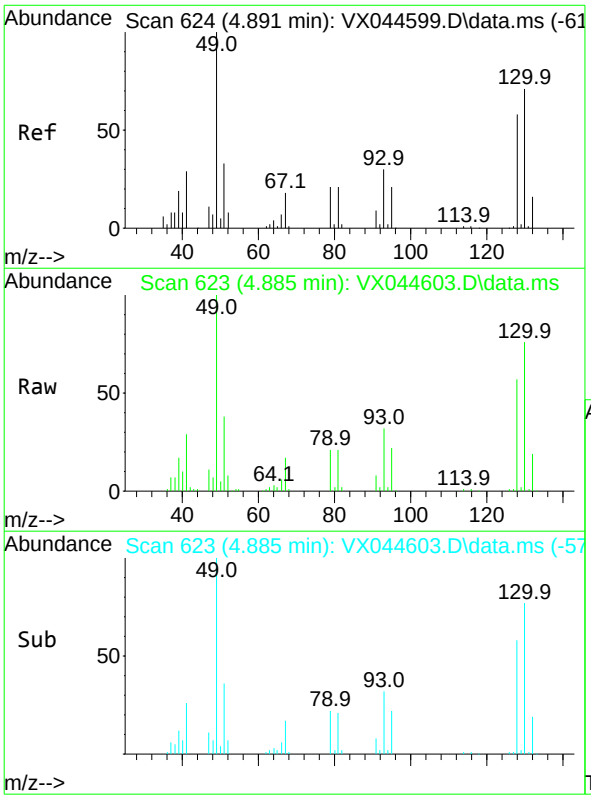
Ion	Ratio	Lower	Upper
96	100		
61	155.3	0.0	302.8
98	65.1	0.0	130.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Manual Integrations APPROVED

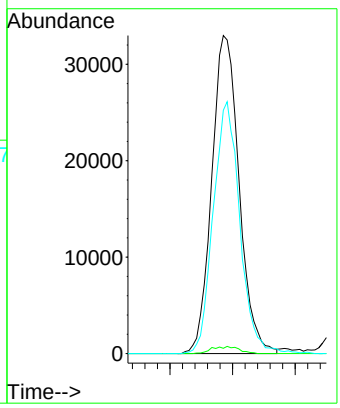
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

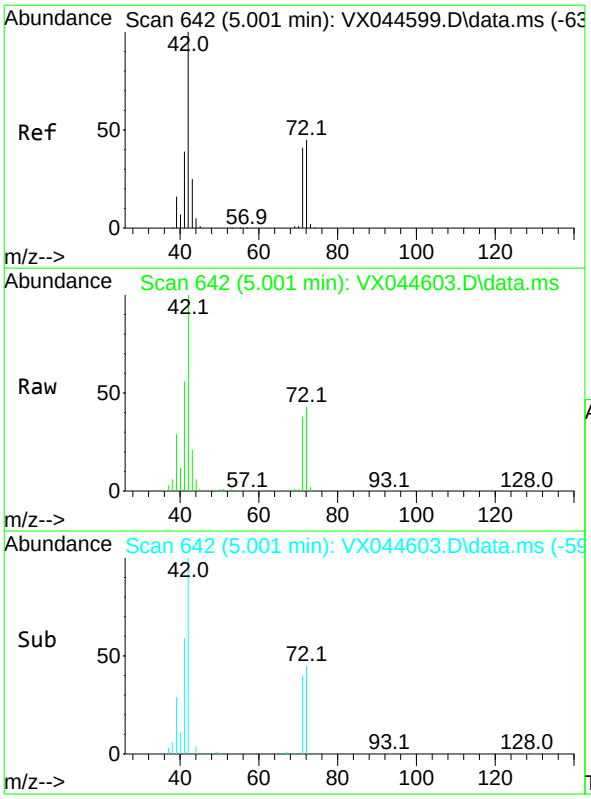


#28
Bromochloromethane
Concen: 50.910 ug/l
RT: 4.885 min Scan# 623
Delta R.T. -0.006 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 49 Resp: 100146

Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	4.2
130	76.9	58.8	88.2

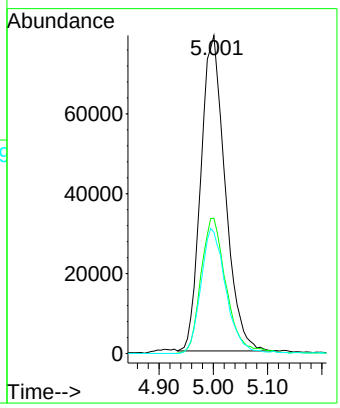




#29
Tetrahydrofuran
Concen: 258.181 ug/l
RT: 5.001 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 42 Resp: 245915

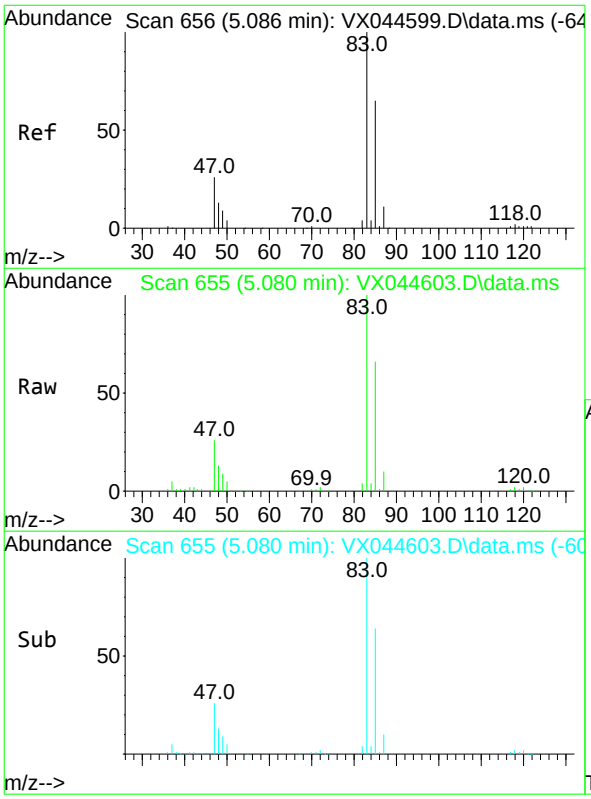
Ion	Ratio	Lower	Upper
42	100		
72	44.8	36.1	54.1
71	40.5	33.0	49.6



Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Manual Integrations APPROVED

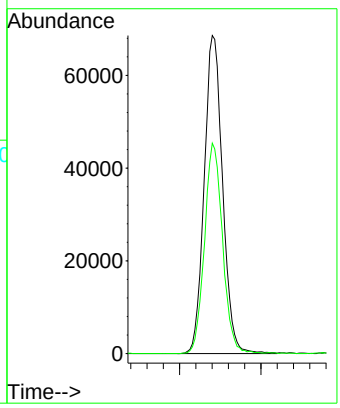
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

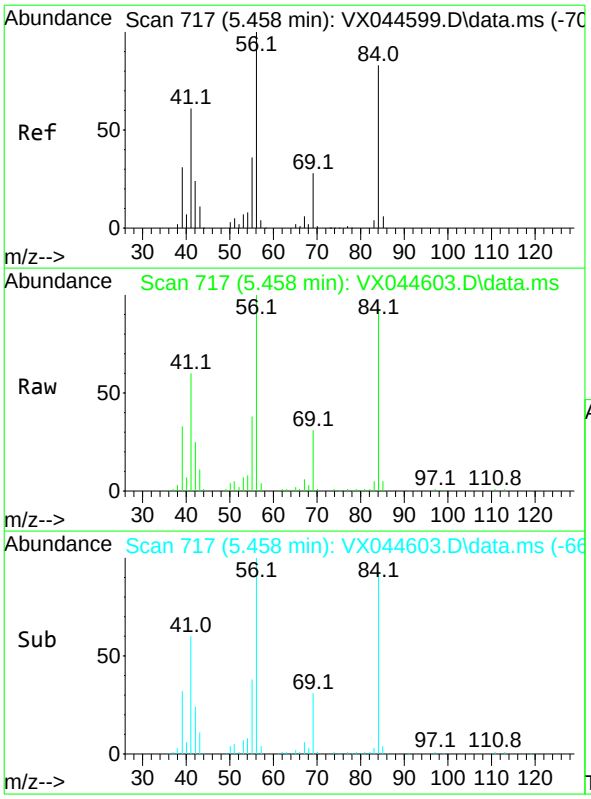


#30
Chloroform
Concen: 47.209 ug/l
RT: 5.080 min Scan# 655
Delta R.T. -0.006 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 83 Resp: 215072

Ion	Ratio	Lower	Upper
83	100		
85	66.1	52.3	78.5

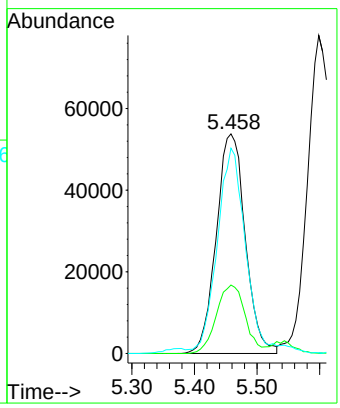




#31
Cyclohexane
Concen: 49.840 ug/l
RT: 5.458 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 56 Resp: 172928

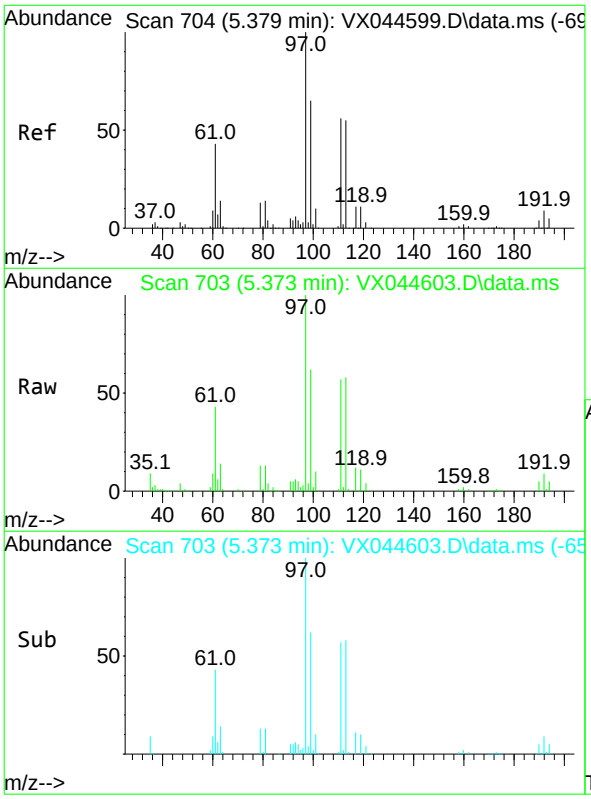
Ion	Ratio	Lower	Upper
56	100		
69	31.2	22.2	33.4
84	91.2	66.6	100.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Manual Integrations APPROVED

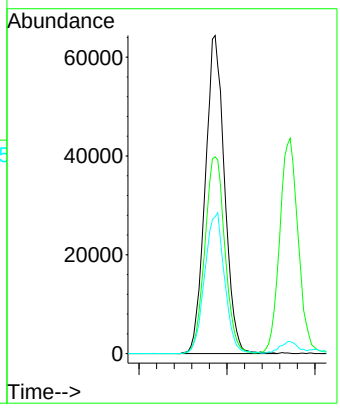
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

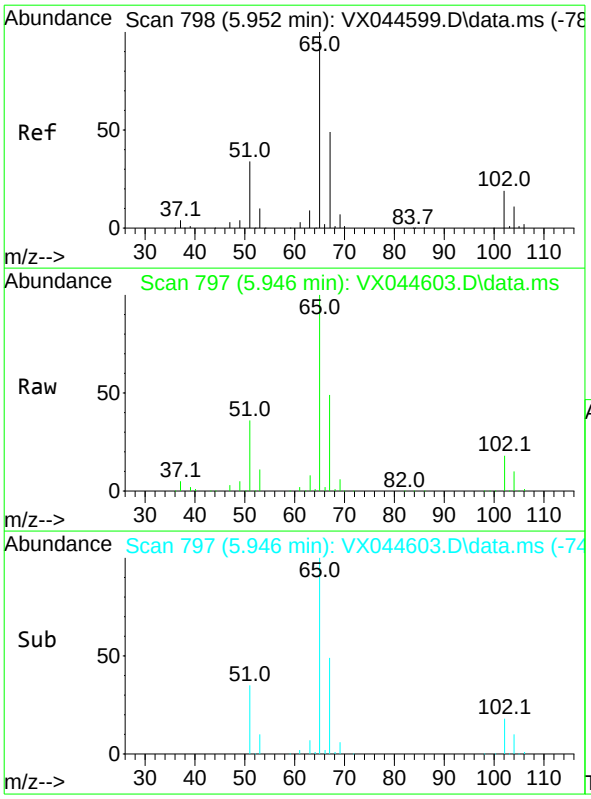


#32
1,1,1-Trichloroethane
Concen: 51.235 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.006 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 97 Resp: 196434

Ion	Ratio	Lower	Upper
97	100		
99	64.1	52.1	78.1
61	45.6	36.8	55.2

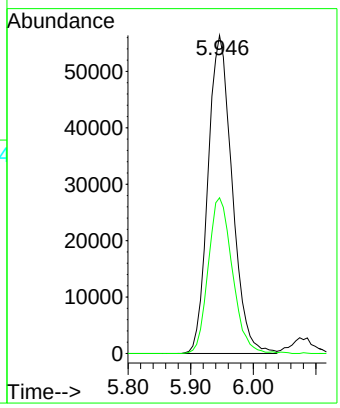




#33
1,2-Dichloroethane-d4
Concen: 49.246 ug/l
RT: 5.946 min Scan# 79
Delta R.T. -0.006 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 65 Resp: 150566

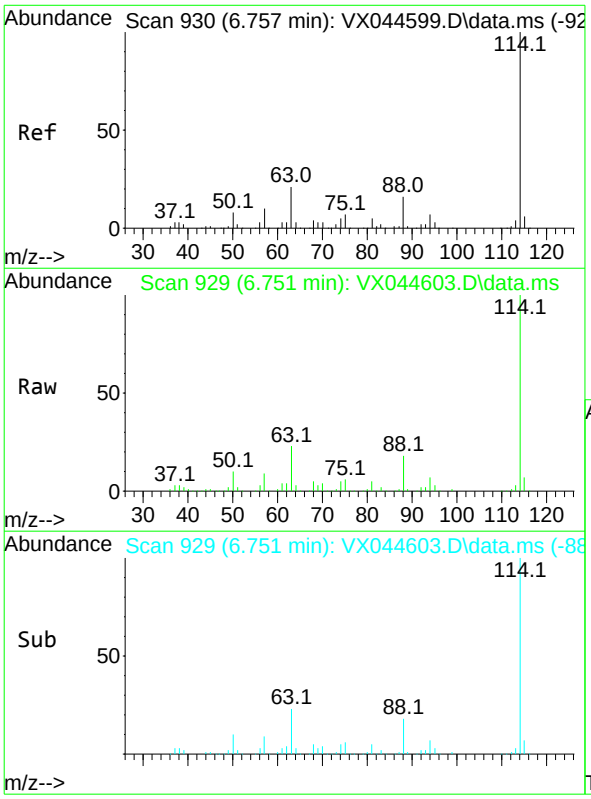
Ion	Ratio	Lower	Upper
65	100		
67	49.1	0.0	99.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Manual Integrations APPROVED

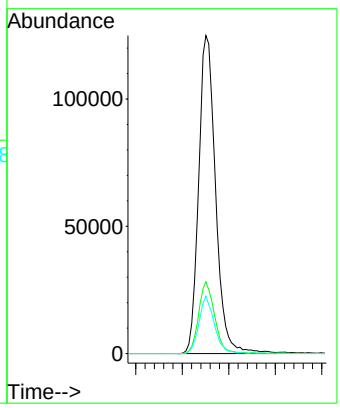
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

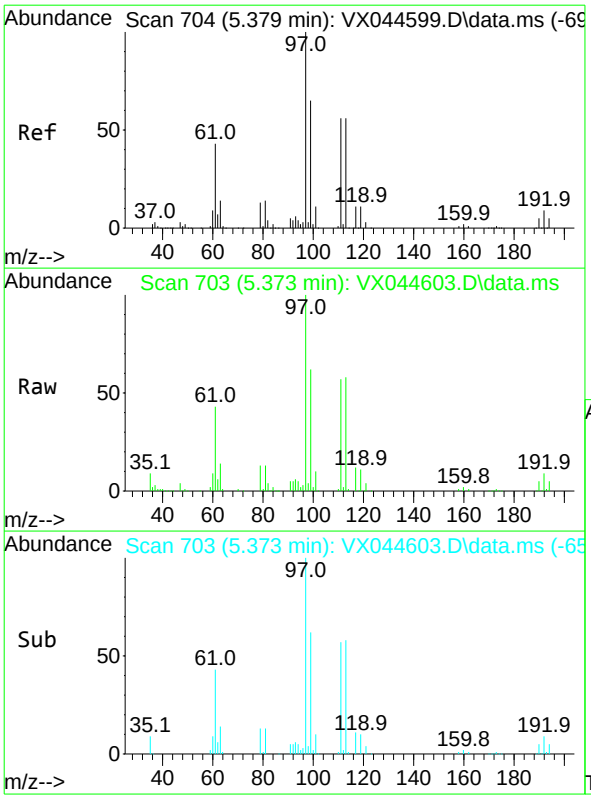


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. -0.006 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion:114 Resp: 316532

Ion	Ratio	Lower	Upper
114	100		
63	22.6	0.0	42.6
88	18.1	0.0	32.6

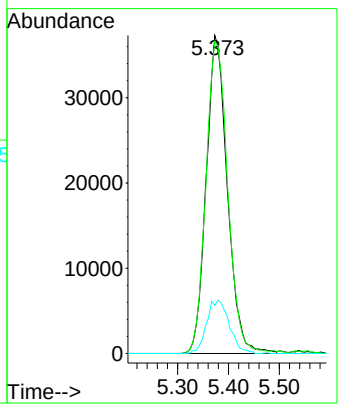




#35
Dibromofluoromethane
Concen: 49.600 ug/l
RT: 5.373 min Scan# 70
Delta R.T. -0.006 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion:113 Resp: 107656

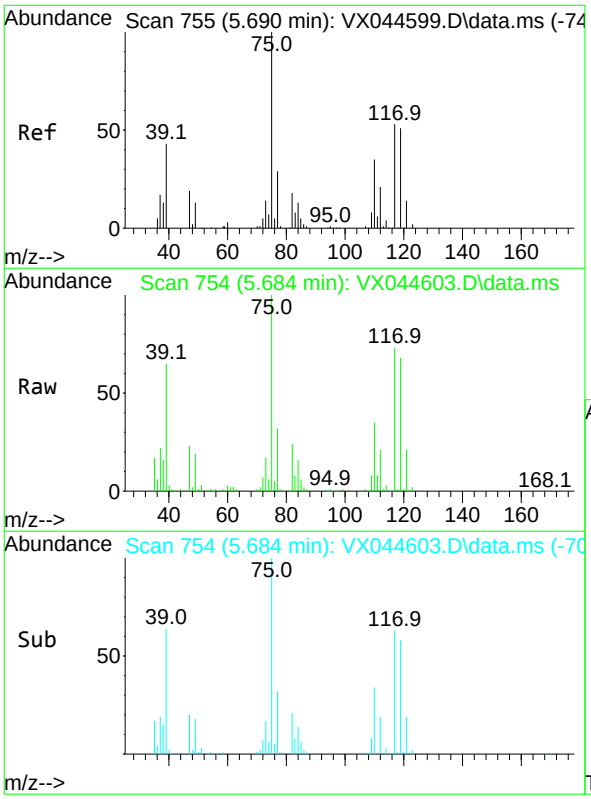
Ion	Ratio	Lower	Upper
113	100		
111	101.7	83.3	124.9
192	18.0	14.3	21.5



Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Manual Integrations APPROVED

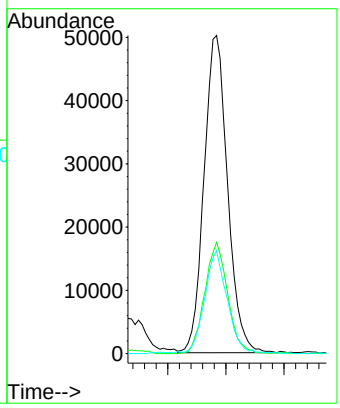
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

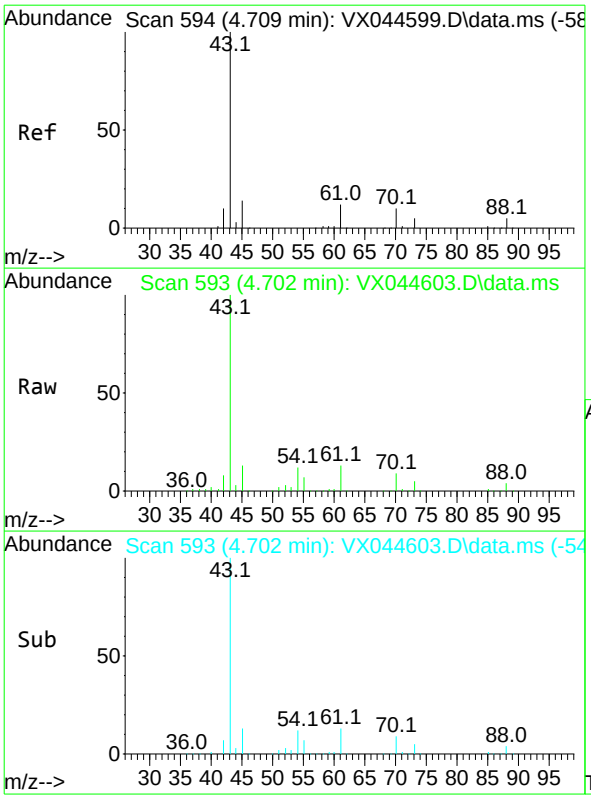


#36
1,1-Dichloropropene
Concen: 50.296 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 75 Resp: 141163

Ion	Ratio	Lower	Upper
75	100		
110	34.1	17.3	51.9
77	31.3	24.7	37.1

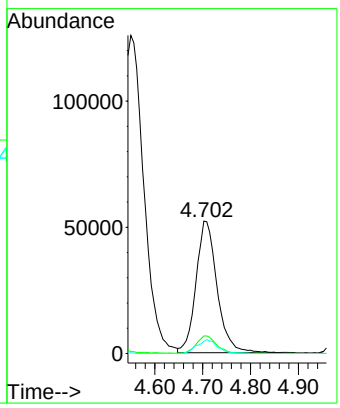




#37
Ethyl Acetate
Concen: 55.503 ug/l
RT: 4.702 min Scan# 59
Delta R.T. -0.006 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 43 Resp: 159354

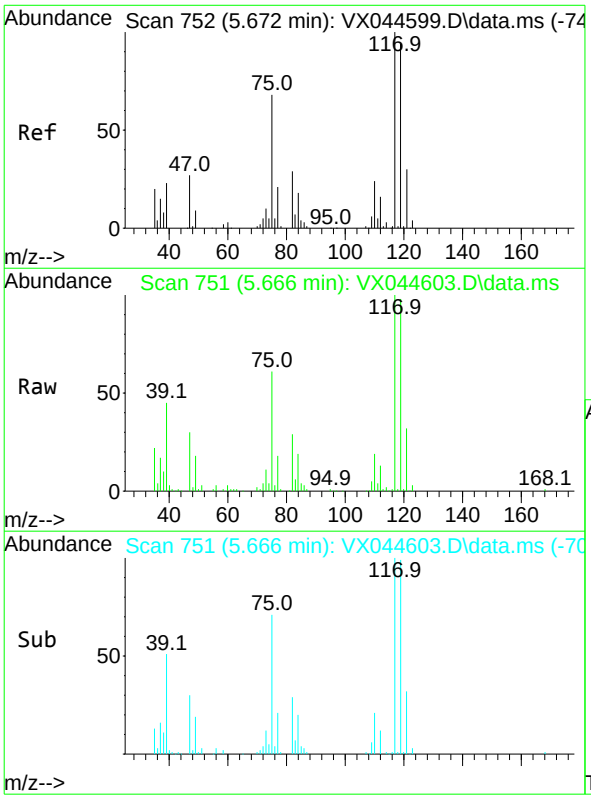
Ion	Ratio	Lower	Upper
43	100		
61	12.9	9.9	14.9
70	10.2	8.0	12.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Manual Integrations APPROVED

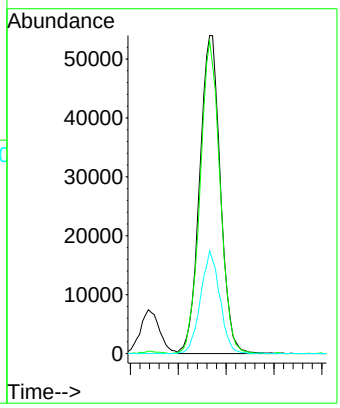
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

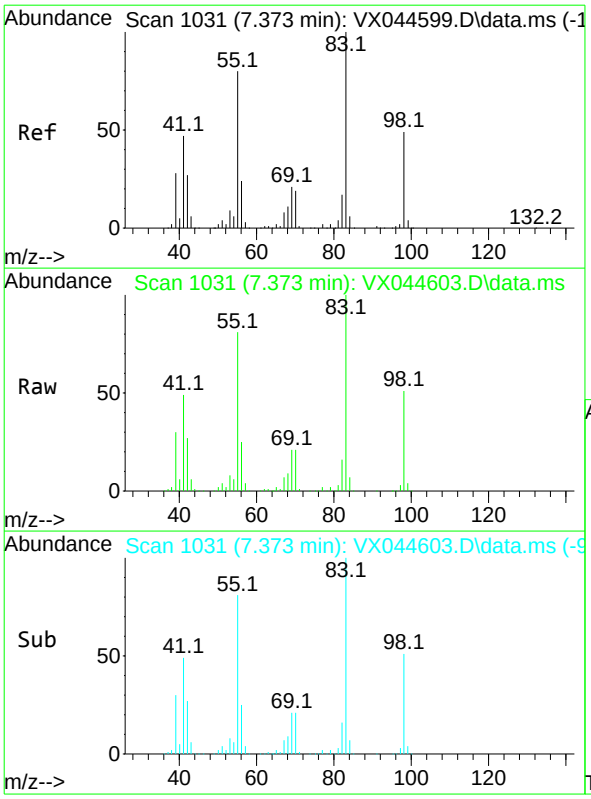


#38
Carbon Tetrachloride
Concen: 52.106 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion:117 Resp: 162259

Ion	Ratio	Lower	Upper
117	100		
119	97.9	74.5	111.7
121	32.3	24.1	36.1

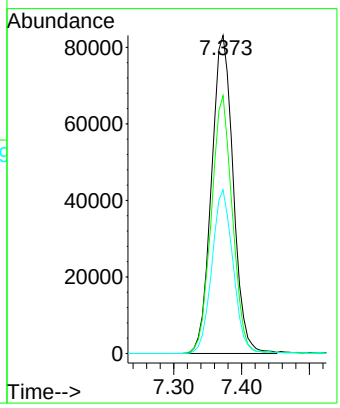




#39
Methylcyclohexane
Concen: 51.612 ug/l
RT: 7.373 min Scan# 10
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 83 Resp: 184835

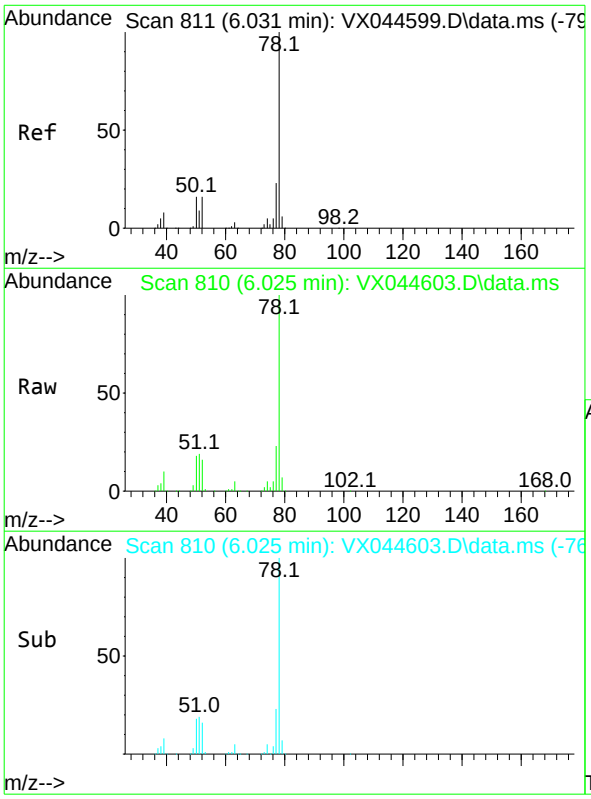
Ion	Ratio	Lower	Upper
83	100		
55	81.1	64.1	96.1
98	51.5	38.9	58.3



Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Manual Integrations APPROVED

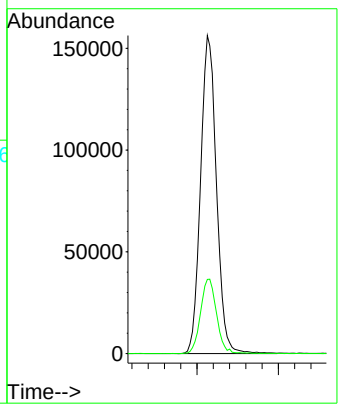
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

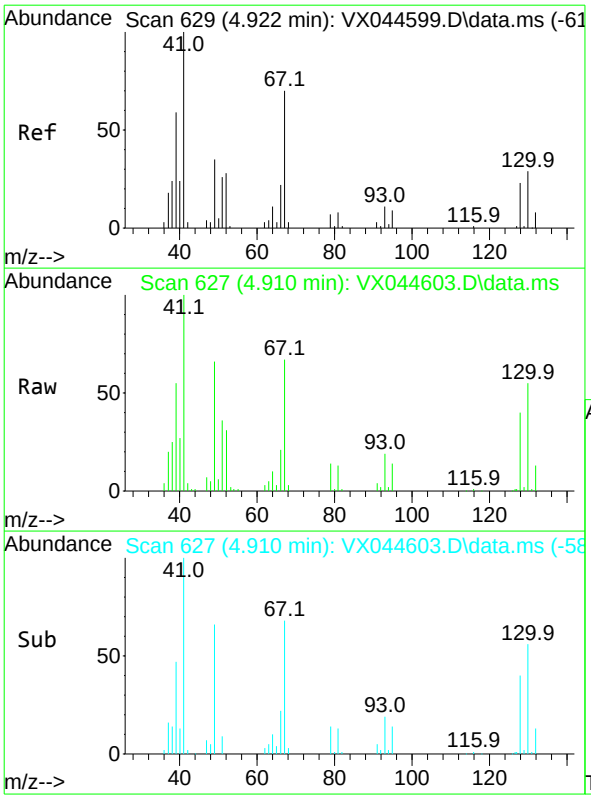


#40
Benzene
Concen: 47.956 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.006 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 78 Resp: 423783

Ion	Ratio	Lower	Upper
78	100		
77	23.3	18.8	28.2

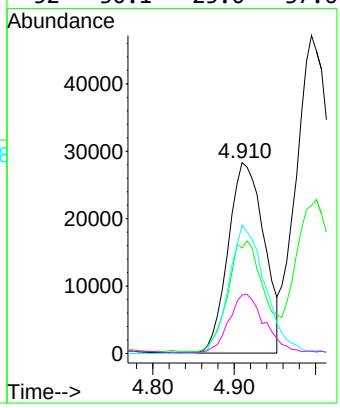




#41
Methacrylonitrile
Concen: 56.367 ug/l
RT: 4.910 min Scan# 62
Delta R.T. -0.012 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 41 Resp: 86868

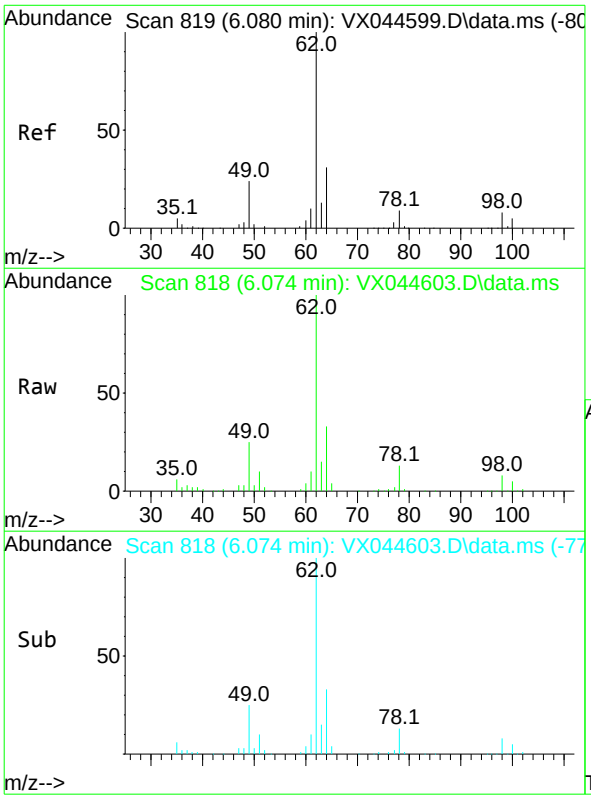
Ion	Ratio	Lower	Upper
41	100		
39	59.4	47.0	70.4
67	68.9	57.4	86.2
52	30.1	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Manual Integrations
APPROVED

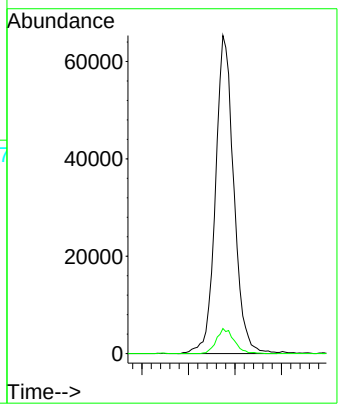
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

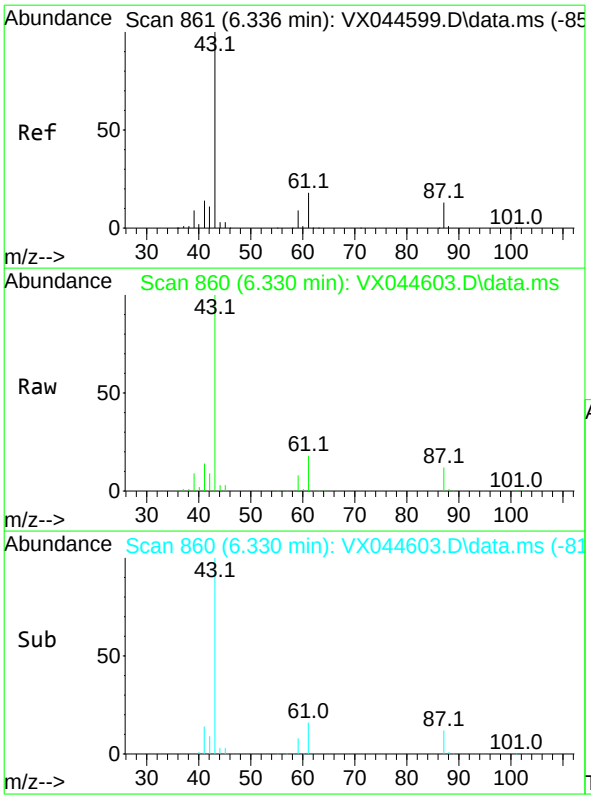


#42
1,2-Dichloroethane
Concen: 51.677 ug/l
RT: 6.074 min Scan# 818
Delta R.T. -0.006 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 62 Resp: 178591

Ion	Ratio	Lower	Upper
62	100		
98	7.6	0.0	15.8

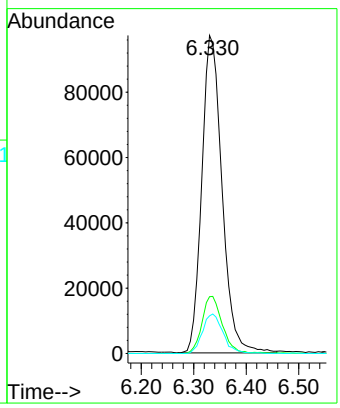




#43
Isopropyl Acetate
Concen: 55.077 ug/l
RT: 6.330 min Scan# 86
Delta R.T. -0.006 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 43 Resp: 260884

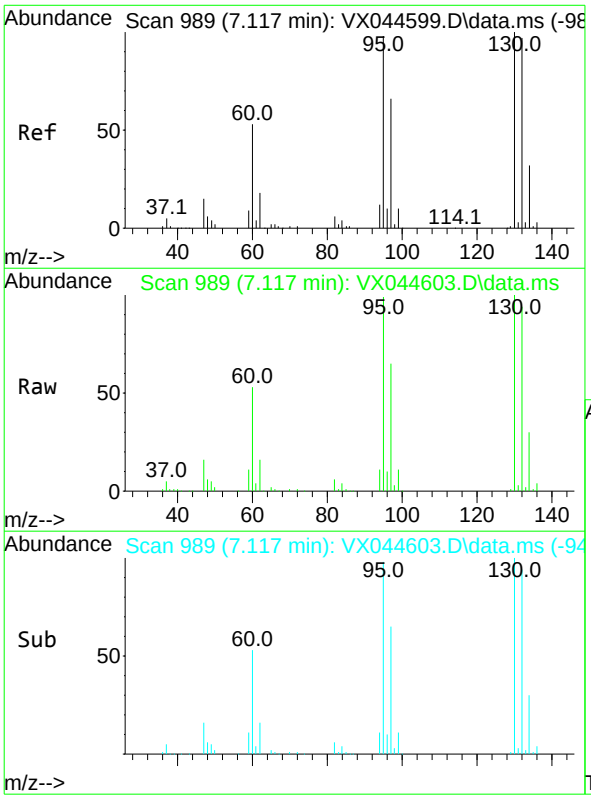
Ion	Ratio	Lower	Upper
43	100		
61	17.8	14.5	21.7
87	12.6	10.1	15.1



Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Manual Integrations APPROVED

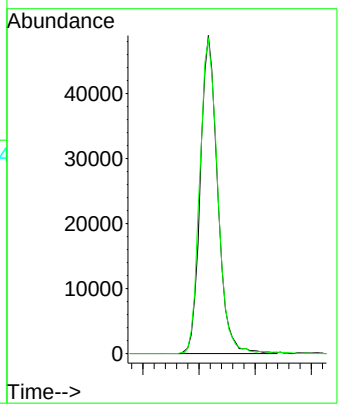
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

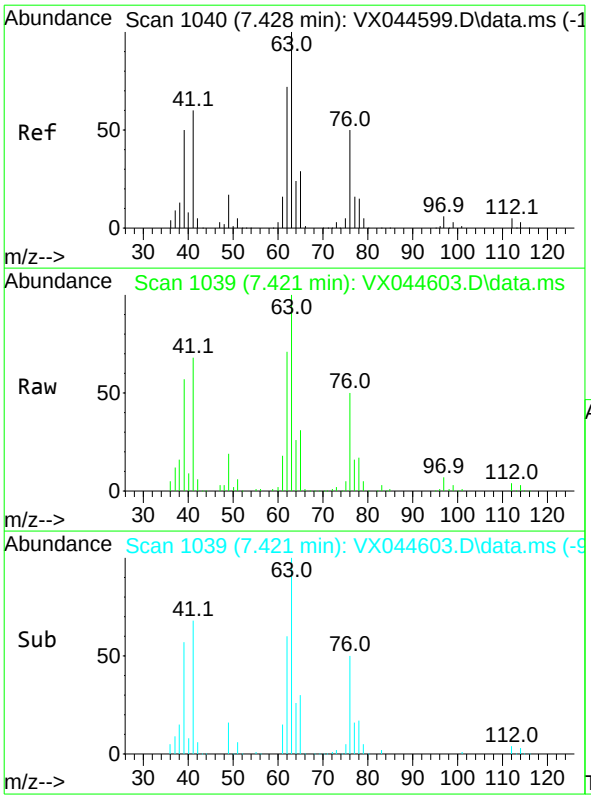


#44
Trichloroethene
Concen: 46.528 ug/l
RT: 7.117 min Scan# 989
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion:130 Resp: 105105

Ion	Ratio	Lower	Upper
130	100		
95	98.8	0.0	195.6

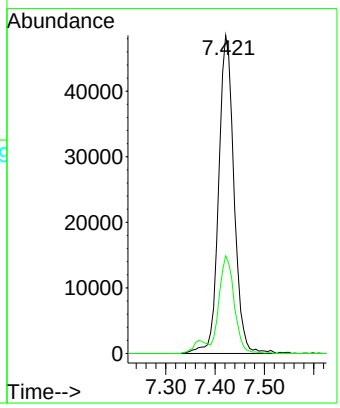




#45
1,2-Dichloropropane
Concen: 48.692 ug/l
RT: 7.421 min Scan# 10
Delta R.T. -0.006 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 63 Resp: 104909

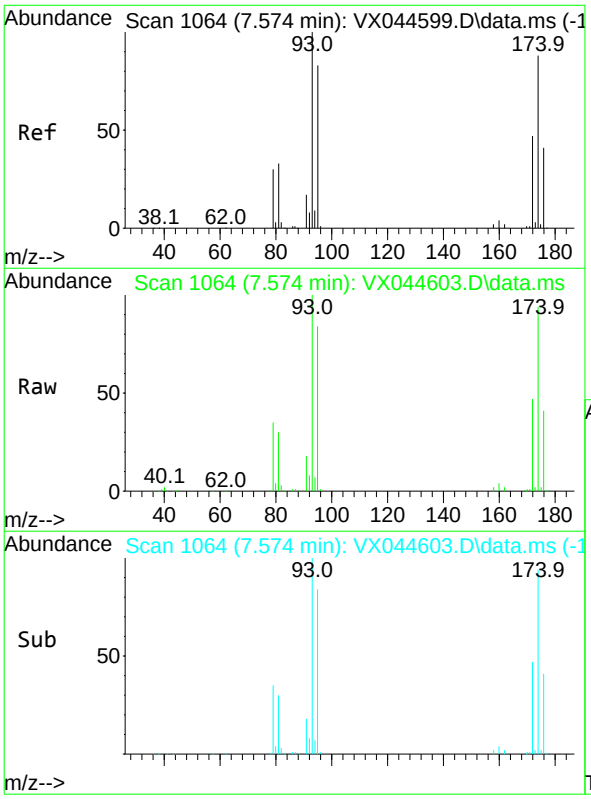
Ion	Ratio	Lower	Upper
63	100		
65	30.7	23.0	34.4



Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Manual Integrations APPROVED

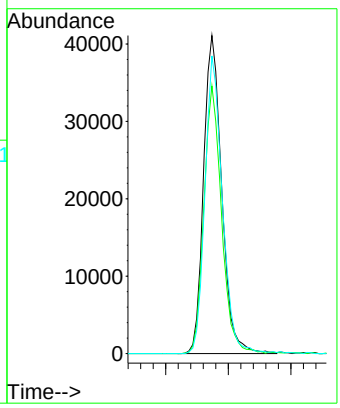
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

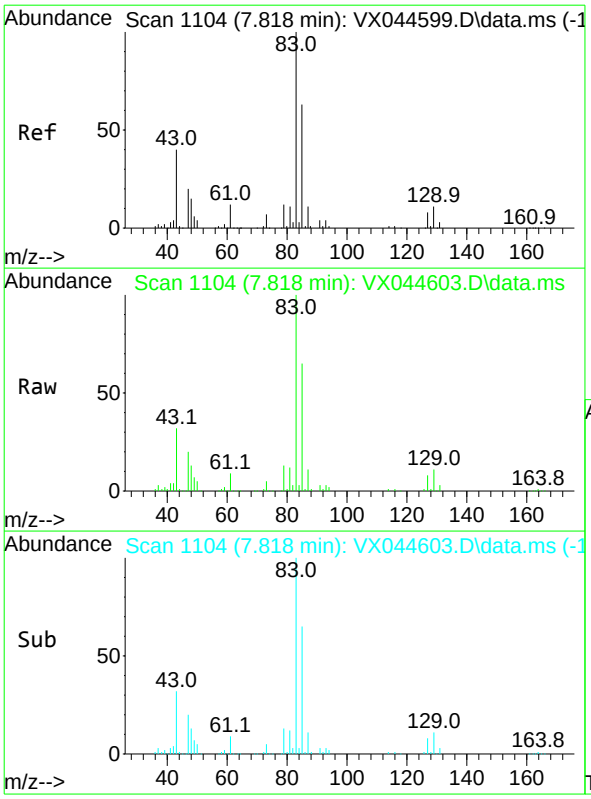


#46
Dibromomethane
Concen: 49.332 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 93 Resp: 82661

Ion	Ratio	Lower	Upper
93	100		
95	81.7	65.8	98.6
174	89.8	73.4	110.0

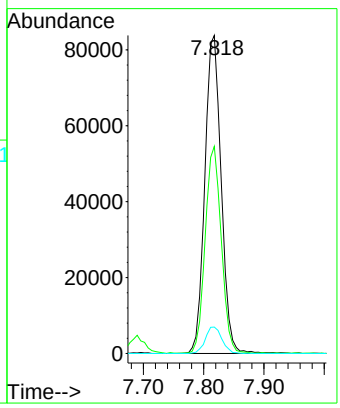




#47
Bromodichloromethane
Concen: 51.813 ug/l
RT: 7.818 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 83 Resp: 157989

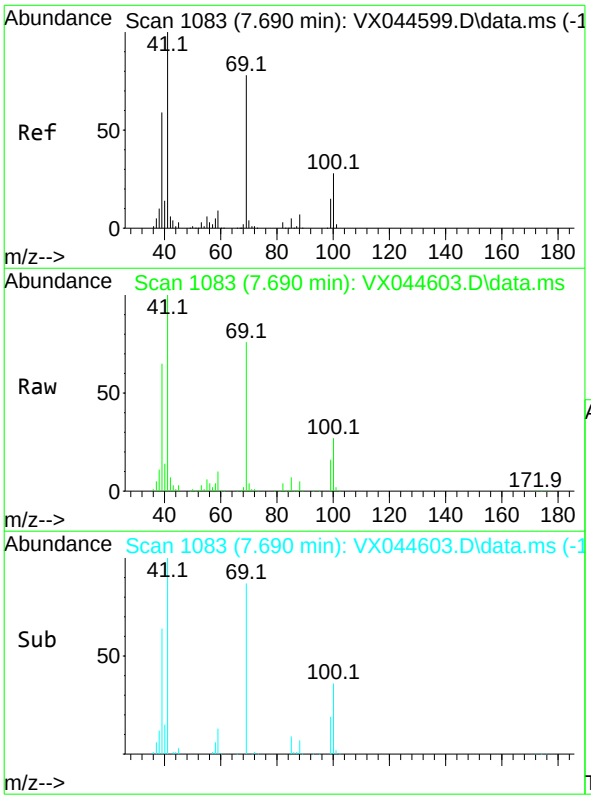
Ion	Ratio	Lower	Upper
83	100		
85	65.0	50.4	75.6
127	8.3	6.2	9.4



Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Manual Integrations APPROVED

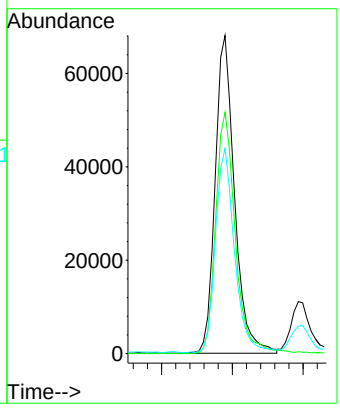
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

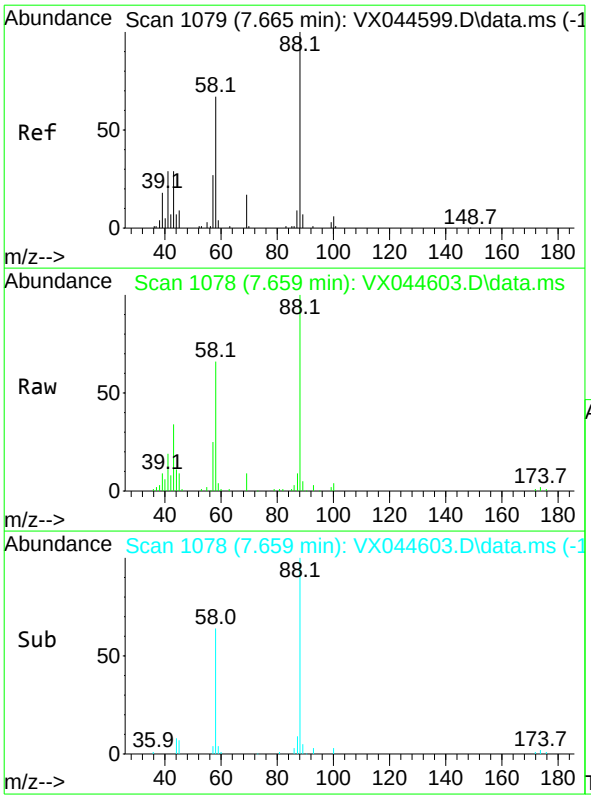


#48
Methyl methacrylate
Concen: 57.212 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 41 Resp: 129253

Ion	Ratio	Lower	Upper
41	100		
69	76.9	62.9	94.3
39	63.6	48.9	73.3

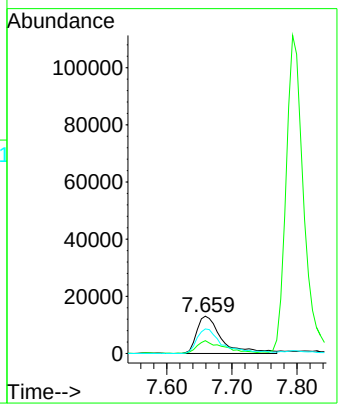




#49
1,4-Dioxane
Concen: 1054.109 ug/l
RT: 7.659 min Scan# 10
Delta R.T. -0.006 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 88 Resp: 34995

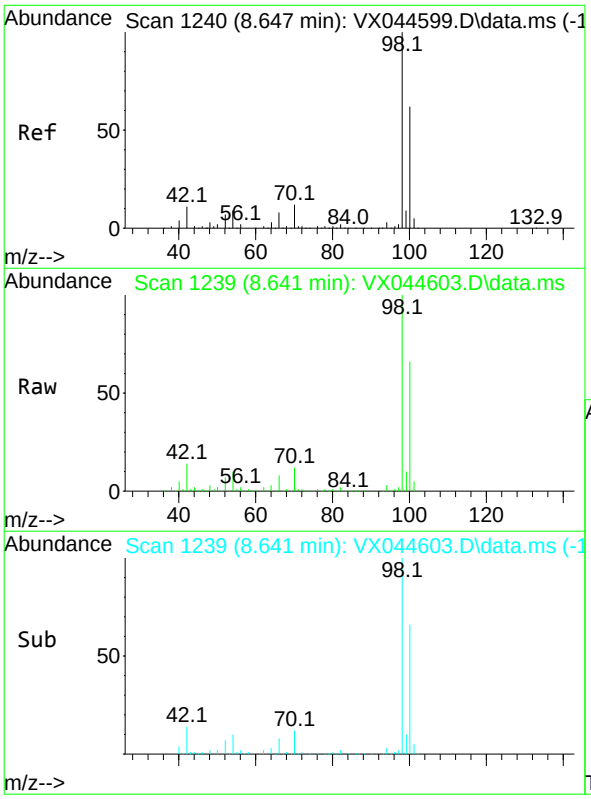
Ion	Ratio	Lower	Upper
88	100		
43	37.0	29.5	44.3
58	67.0	56.3	84.5



Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Manual Integrations APPROVED

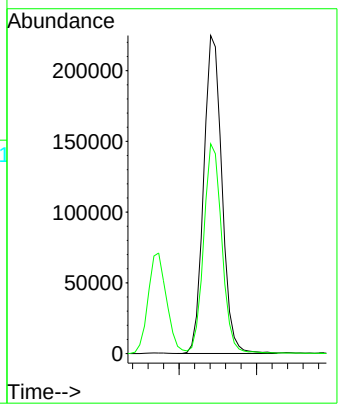
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

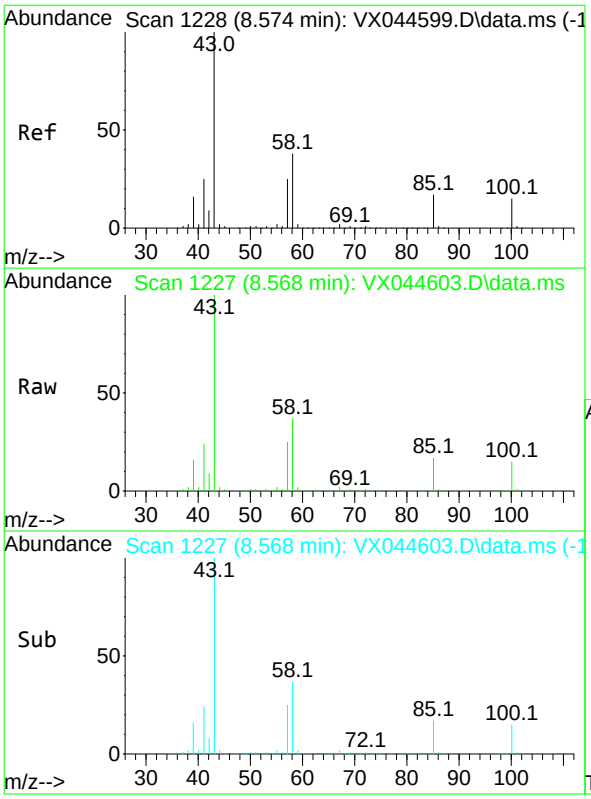


#50
Toluene-d8
Concen: 49.585 ug/l
RT: 8.641 min Scan# 1239
Delta R.T. -0.006 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 98 Resp: 367621

Ion	Ratio	Lower	Upper
98	100		
100	65.9	52.5	78.7

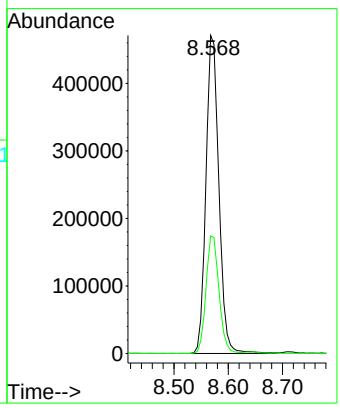




#51
4-Methyl-2-Pentanone
Concen: 282.088 ug/l
RT: 8.568 min Scan# 12
Delta R.T. -0.006 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 43 Resp: 781060

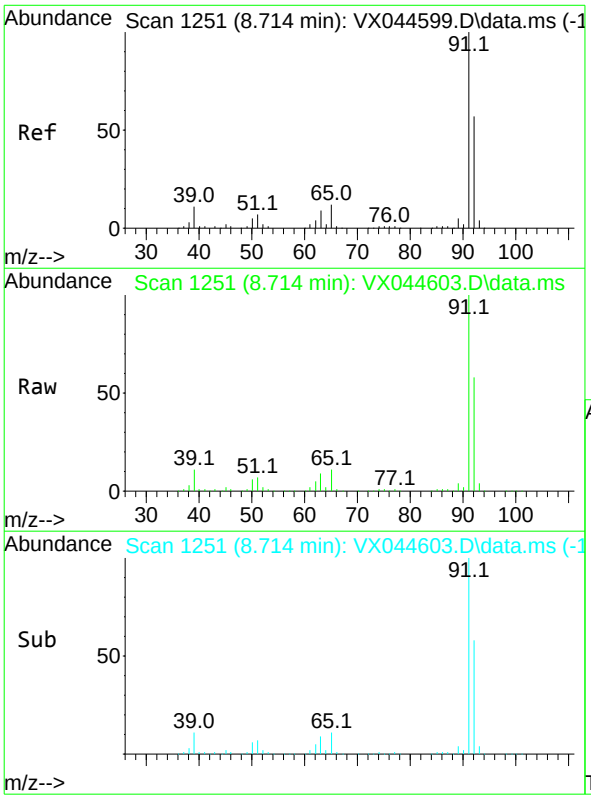
Ion	Ratio	Lower	Upper
43	100		
58	37.2	30.0	45.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Manual Integrations APPROVED

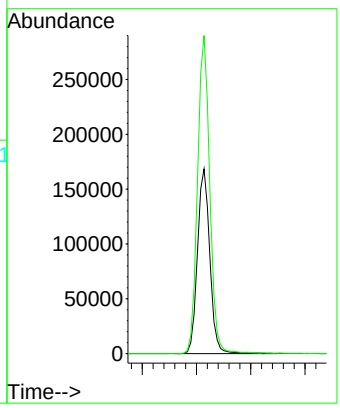
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

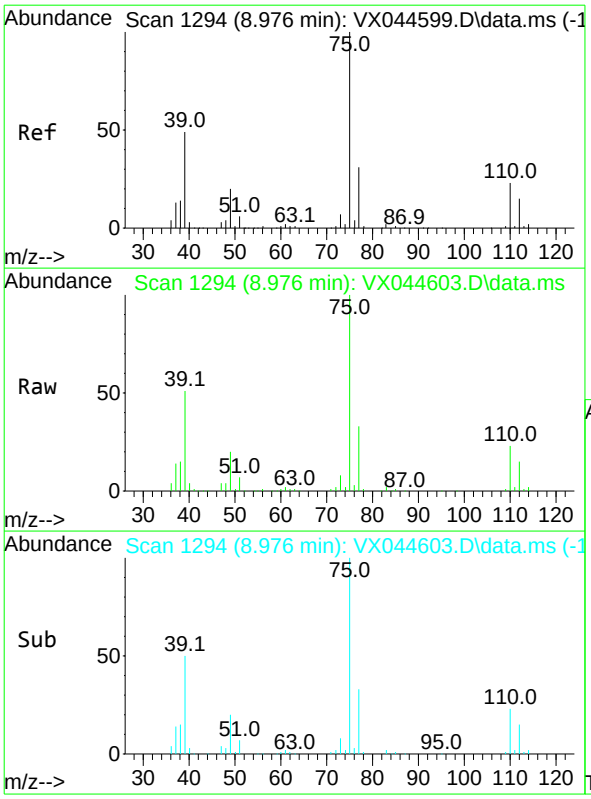


#52
Toluene
Concen: 49.893 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 92 Resp: 266026

Ion	Ratio	Lower	Upper
92	100		
91	170.3	140.6	210.8

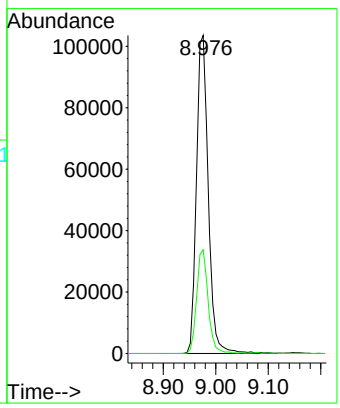




#53
t-1,3-Dichloropropene
Concen: 55.511 ug/l
RT: 8.976 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 75 Resp: 161793

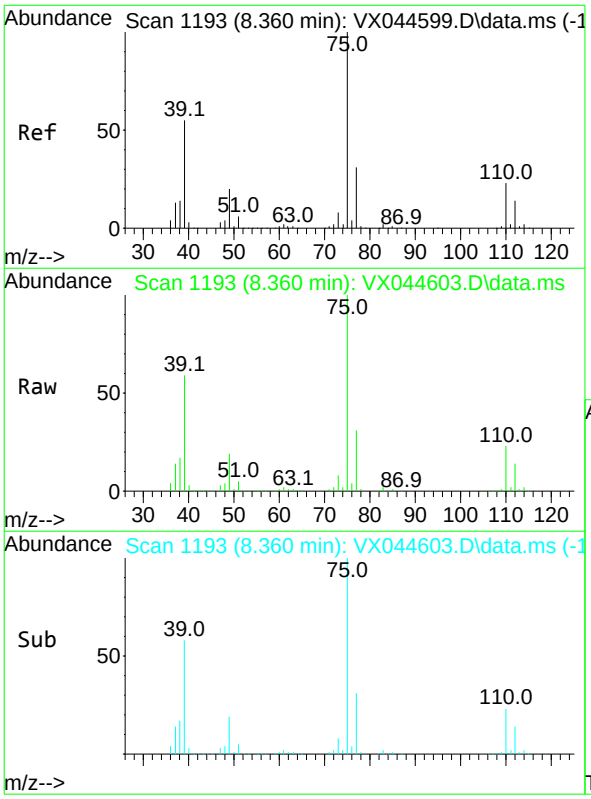
Ion	Ratio	Lower	Upper
75	100		
77	32.6	24.8	37.2



Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Manual Integrations APPROVED

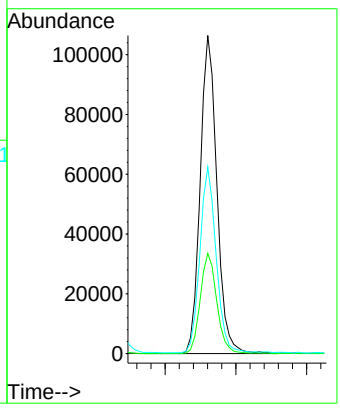
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

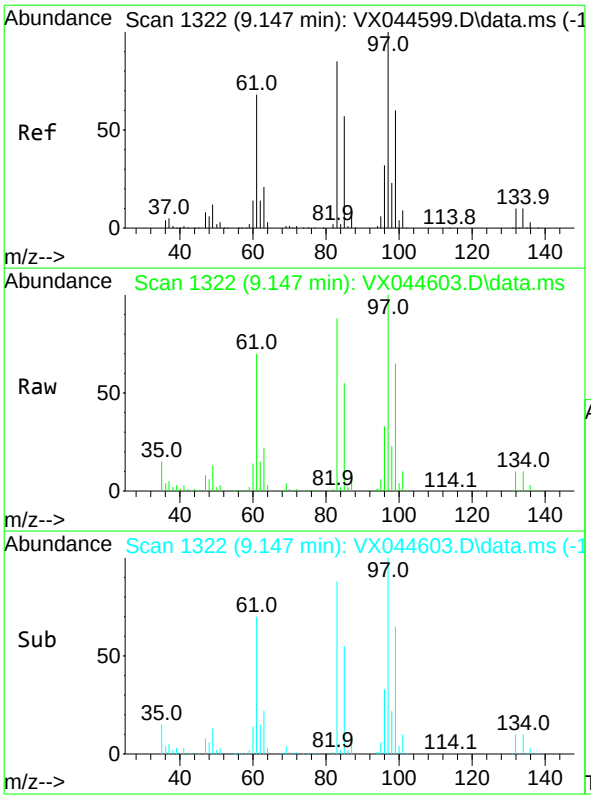


#54
cis-1,3-Dichloropropene
Concen: 53.210 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 75 Resp: 174299

Ion	Ratio	Lower	Upper
75	100		
77	31.5	24.5	36.7
39	58.3	44.3	66.5

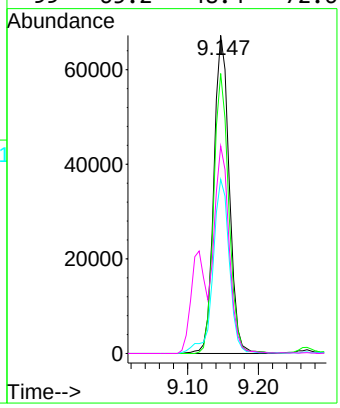




#55
1,1,2-Trichloroethane
Concen: 48.736 ug/l
RT: 9.147 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 97 Resp: 101873

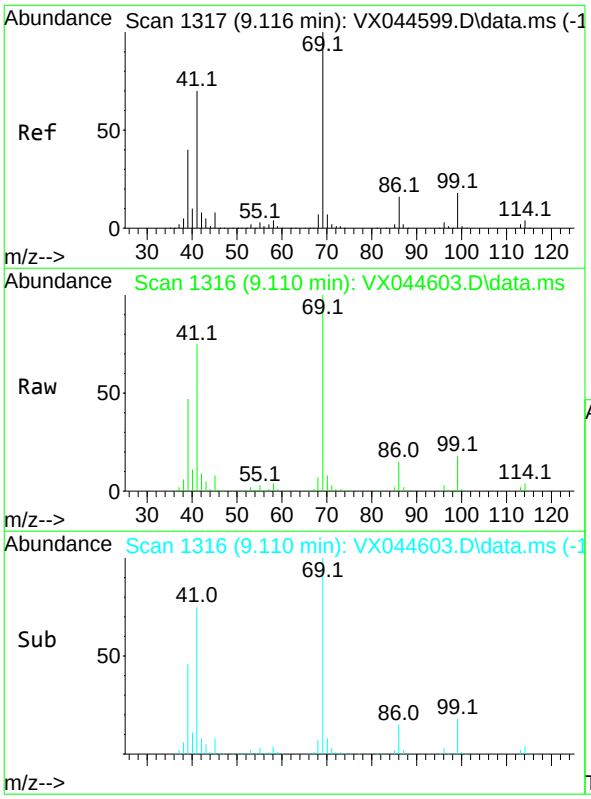
Ion	Ratio	Lower	Upper
97	100		
83	88.0	68.0	102.0
85	54.8	45.4	68.0
99	65.2	48.4	72.6



Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Manual Integrations APPROVED

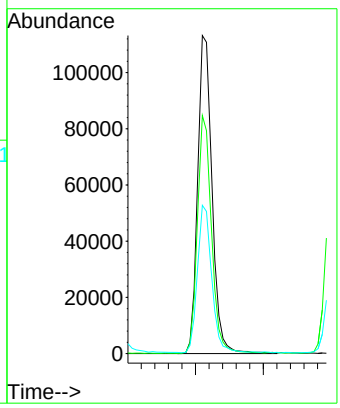
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

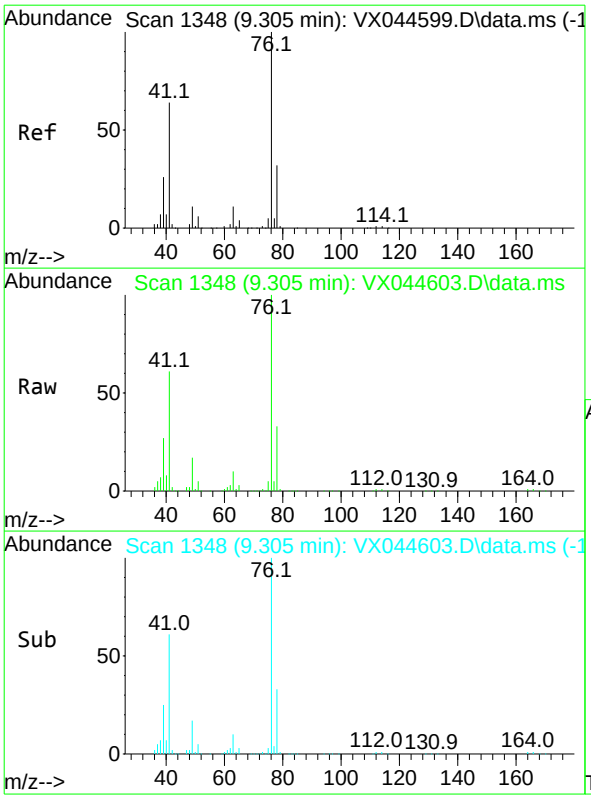


#56
Ethyl methacrylate
Concen: 54.925 ug/l
RT: 9.110 min Scan# 1316
Delta R.T. -0.006 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 69 Resp: 166968

Ion	Ratio	Lower	Upper
69	100		
41	73.2	57.7	86.5
39	46.2	33.7	50.5

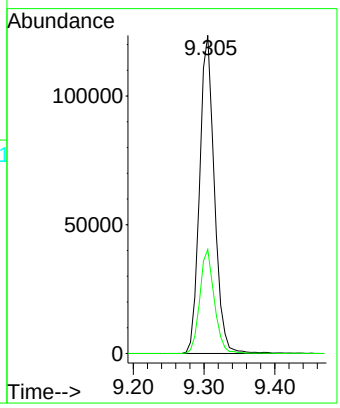




#57
1,3-Dichloropropane
Concen: 51.108 ug/l
RT: 9.305 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 76 Resp: 179394

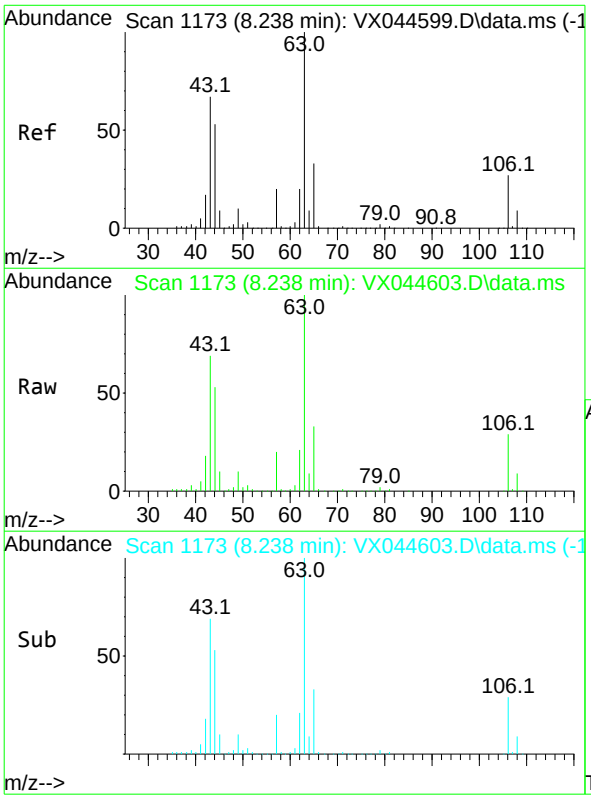
Ion	Ratio	Lower	Upper
76	100		
78	32.2	25.8	38.8



Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Manual Integrations APPROVED

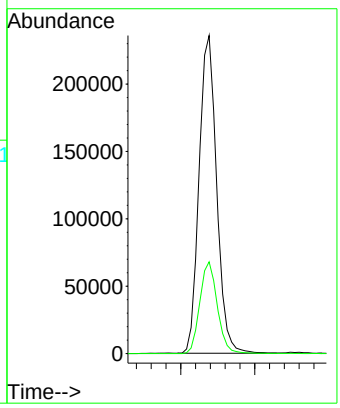
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

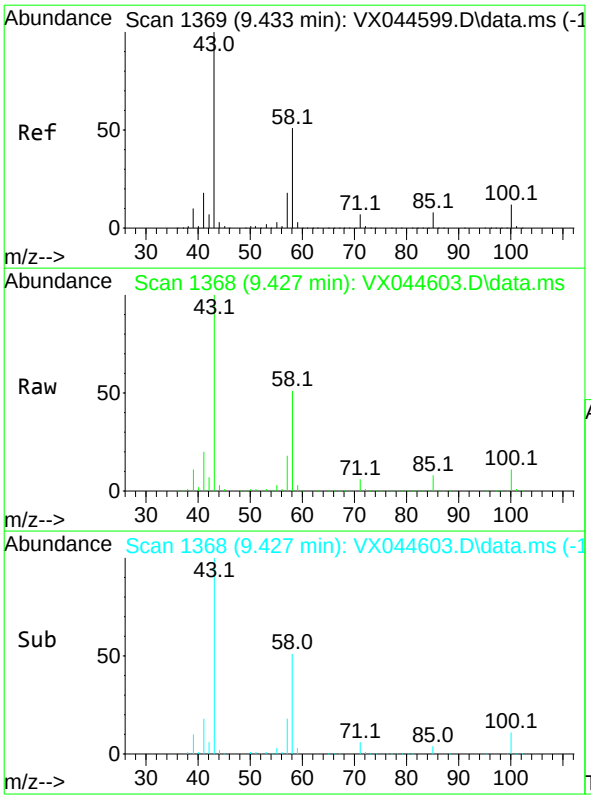


#58
2-Chloroethyl Vinyl ether
Concen: 258.112 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 63 Resp: 388986

Ion	Ratio	Lower	Upper
63	100		
106	28.7	22.4	33.6

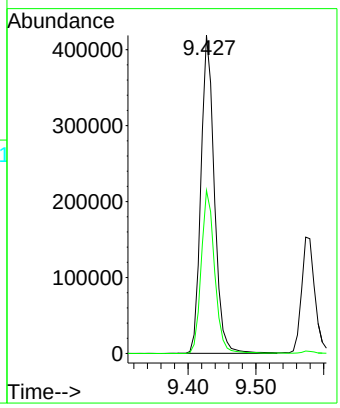




#59
2-Hexanone
Concen: 292.615 ug/l
RT: 9.427 min Scan# 13
Delta R.T. -0.006 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 43 Resp: 572995

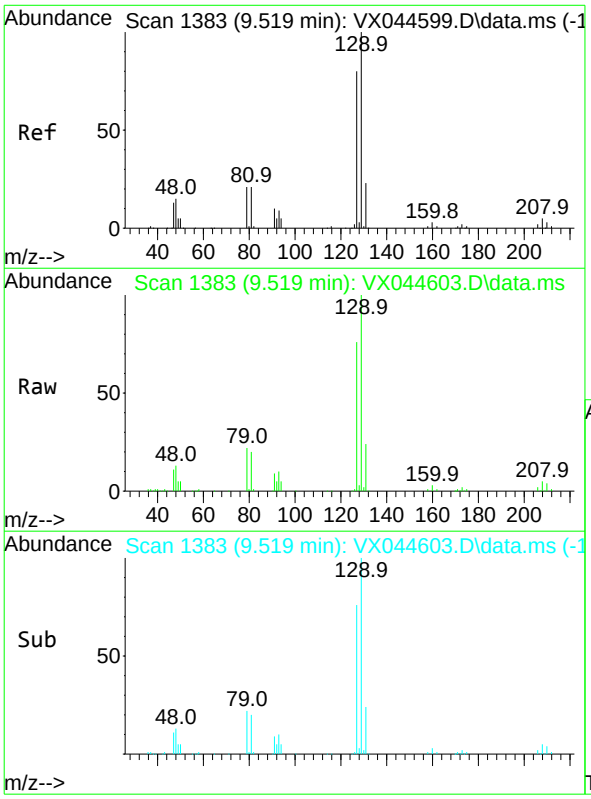
Ion	Ratio	Lower	Upper
43	100		
58	51.5	25.4	76.4



Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Manual Integrations APPROVED

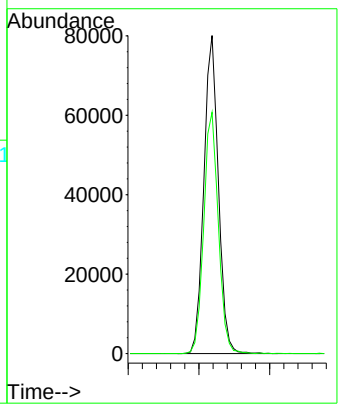
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

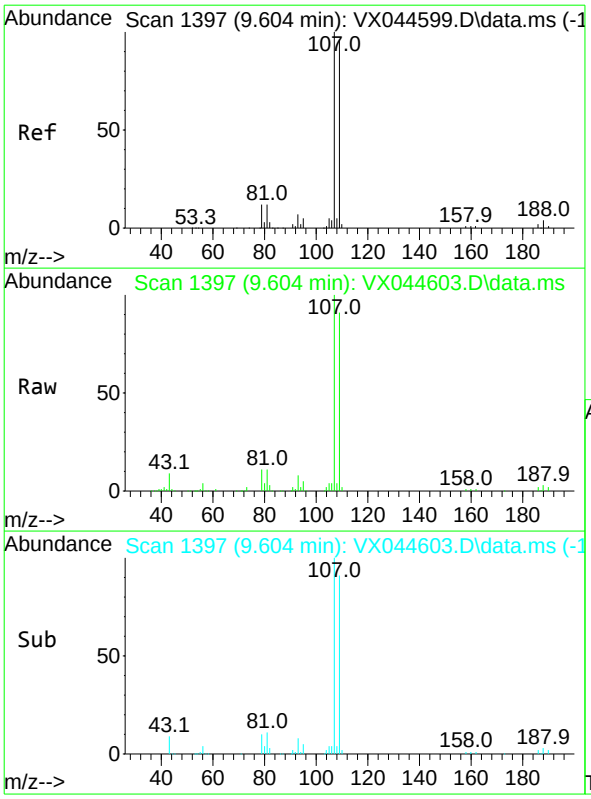


#60
Dibromochloromethane
Concen: 54.749 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion:129 Resp: 114110

Ion	Ratio	Lower	Upper
129	100		
127	76.2	38.9	116.7

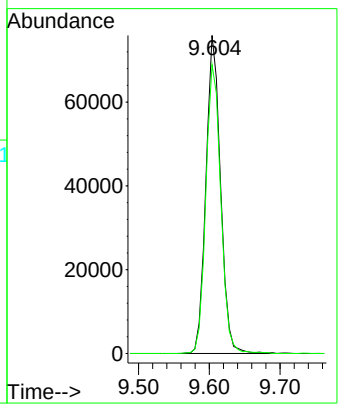




#61
1,2-Dibromoethane
Concen: 51.516 ug/l
RT: 9.604 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion:107 Resp: 108755

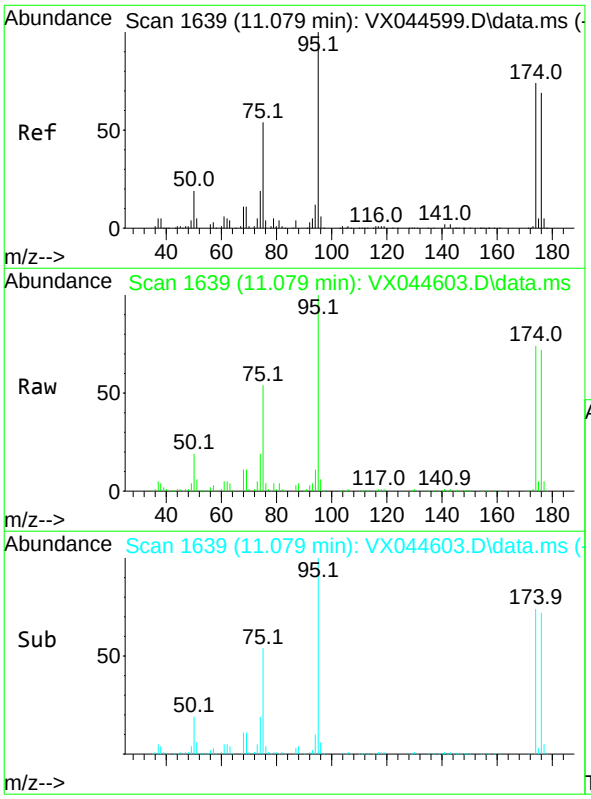
Ion	Ratio	Lower	Upper
107	100		
109	93.2	76.7	115.1



Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Manual Integrations APPROVED

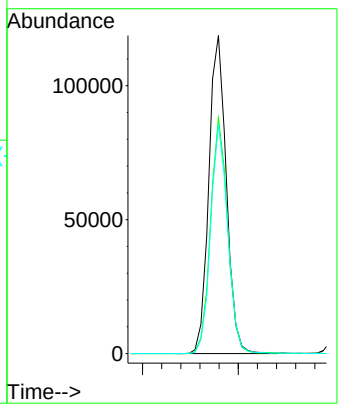
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

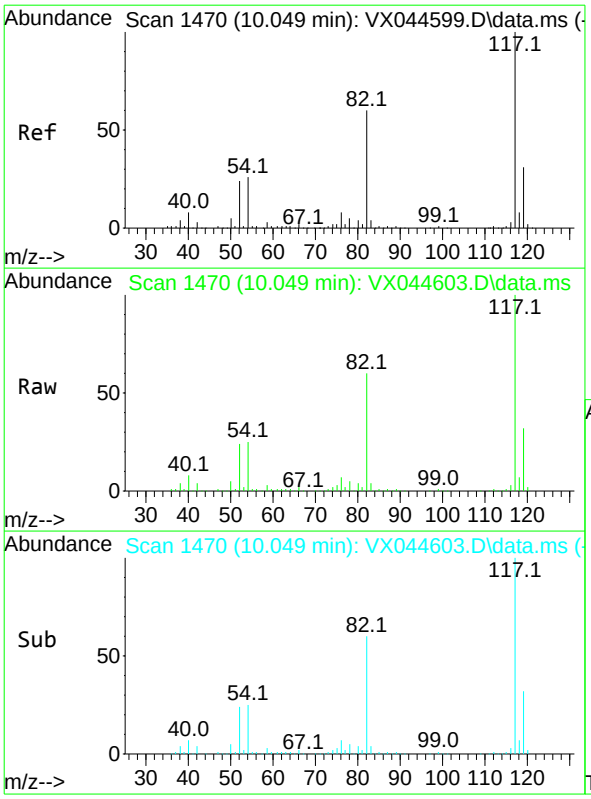


#62
4-Bromofluorobenzene
Concen: 57.528 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 95 Resp: 150542

Ion	Ratio	Lower	Upper
95	100		
174	72.6	0.0	148.8
176	70.6	0.0	139.8

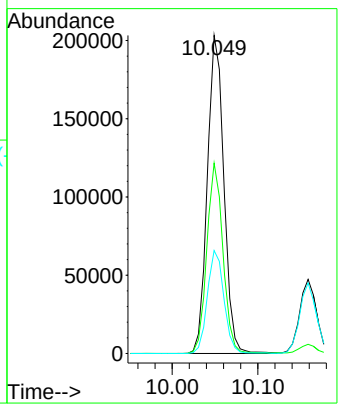




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion:117 Resp: 272375

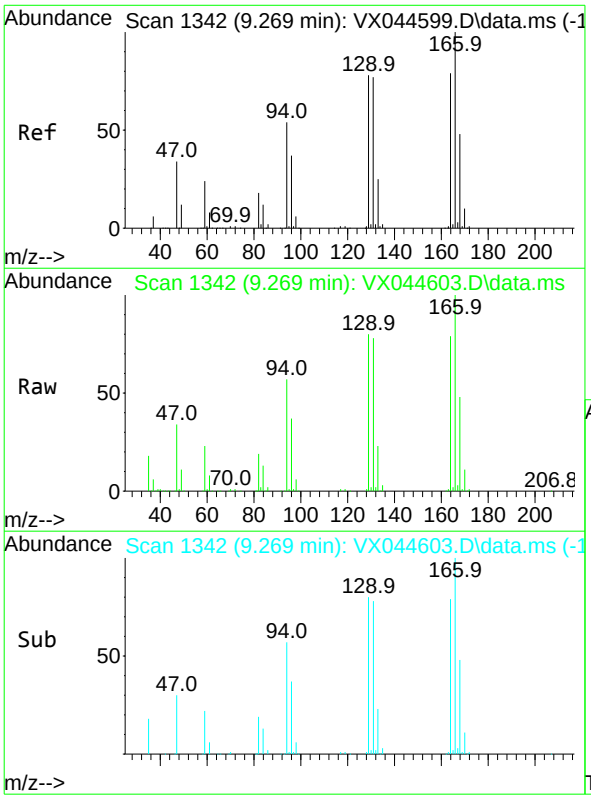
Ion	Ratio	Lower	Upper
117	100		
82	59.9	47.8	71.6
119	32.4	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Manual Integrations
APPROVED

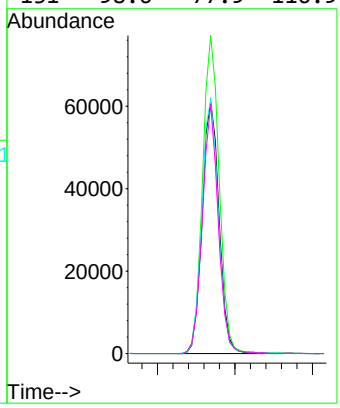
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

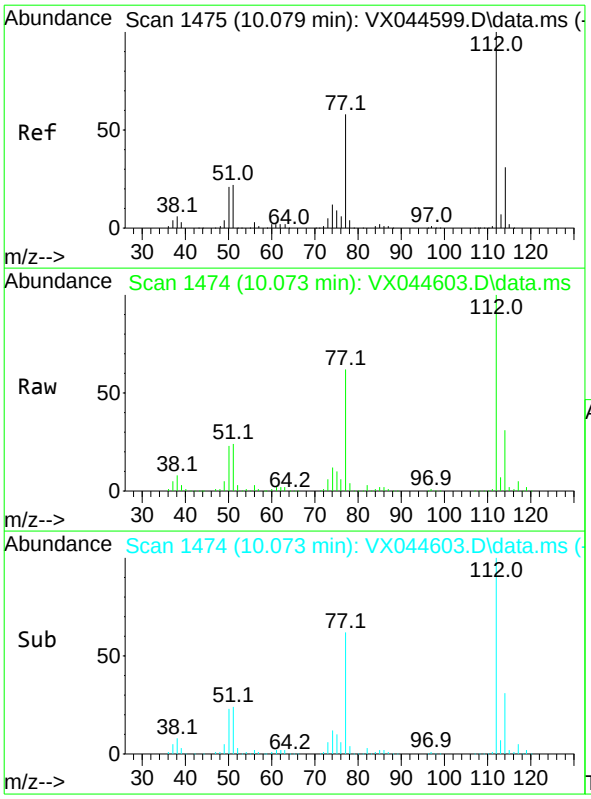


#64
Tetrachloroethene
Concen: 48.035 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion:164 Resp: 92504

Ion	Ratio	Lower	Upper
164	100		
166	125.9	101.5	152.3
129	100.8	78.9	118.3
131	98.6	77.9	116.9

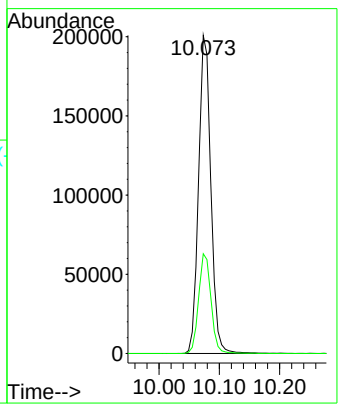




#65
Chlorobenzene
Concen: 49.177 ug/l
RT: 10.073 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion:112 Resp: 284281

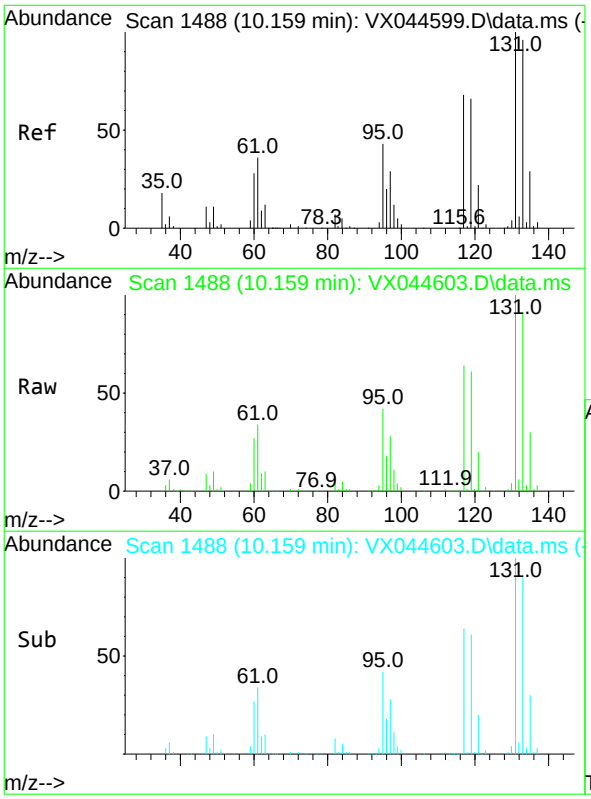
Ion	Ratio	Lower	Upper
112	100		
114	31.3	25.0	37.4



Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Manual Integrations APPROVED

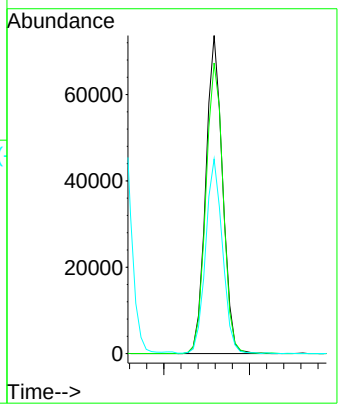
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

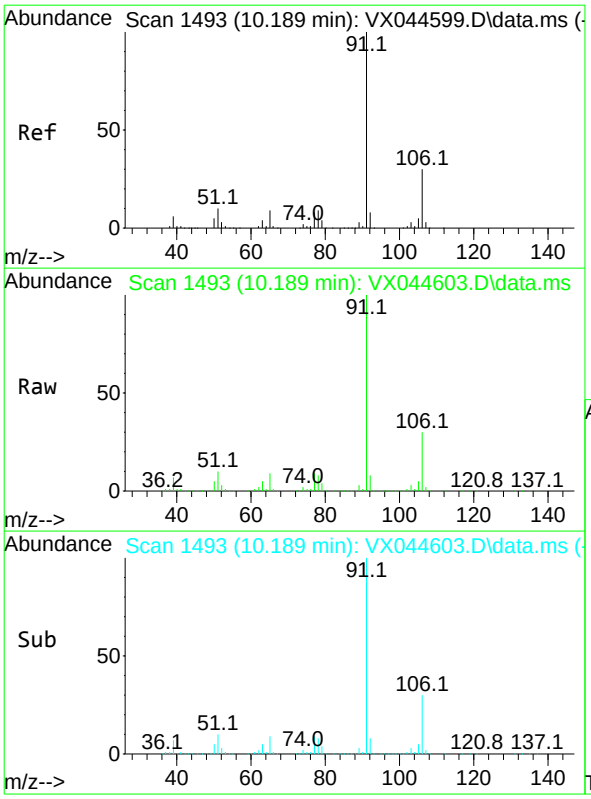


#66
1,1,1,2-Tetrachloroethane
Concen: 51.911 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion:131 Resp: 99668

Ion	Ratio	Lower	Upper
131	100		
133	94.3	48.0	144.0
119	62.0	32.8	98.4

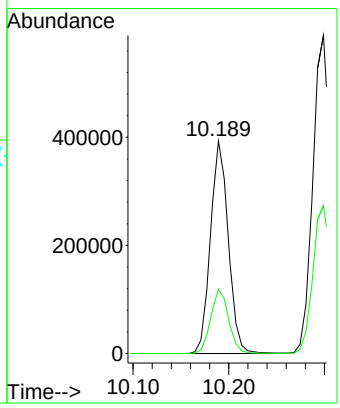




#67
Ethyl Benzene
Concen: 51.215 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 91 Resp: 508409

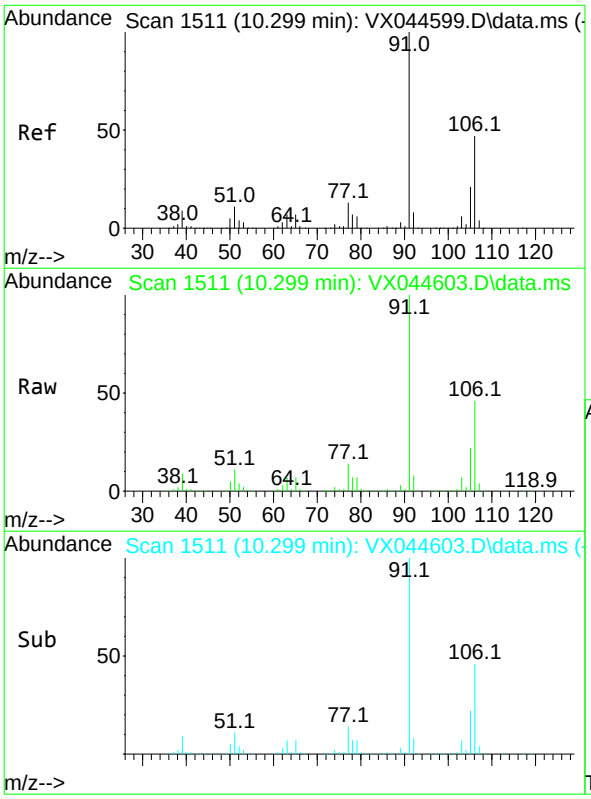
Ion	Ratio	Lower	Upper
91	100		
106	30.3	23.8	35.8



Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Manual Integrations
APPROVED

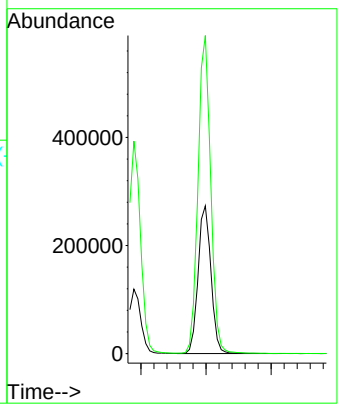
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

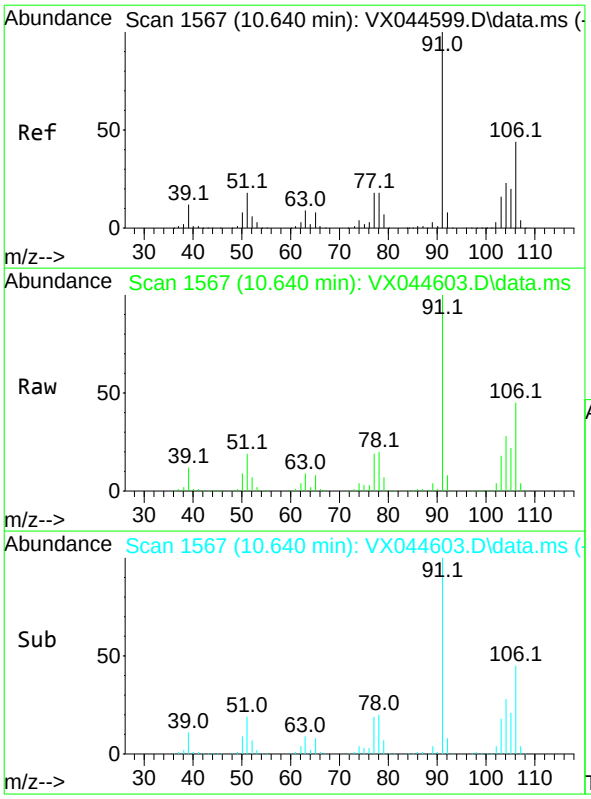


#68
m/p-Xylenes
Concen: 102.808 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion:106 Resp: 375022

Ion	Ratio	Lower	Upper
106	100		
91	211.8	170.4	255.6

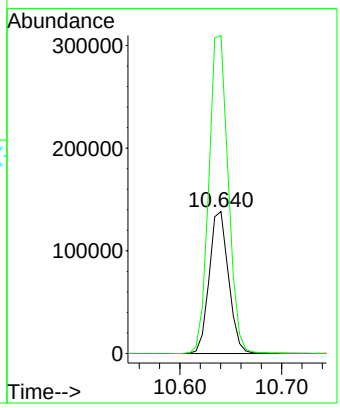




#69
o-Xylene
Concen: 49.559 ug/l
RT: 10.640 min Scan# 15
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion:106 Resp: 182474

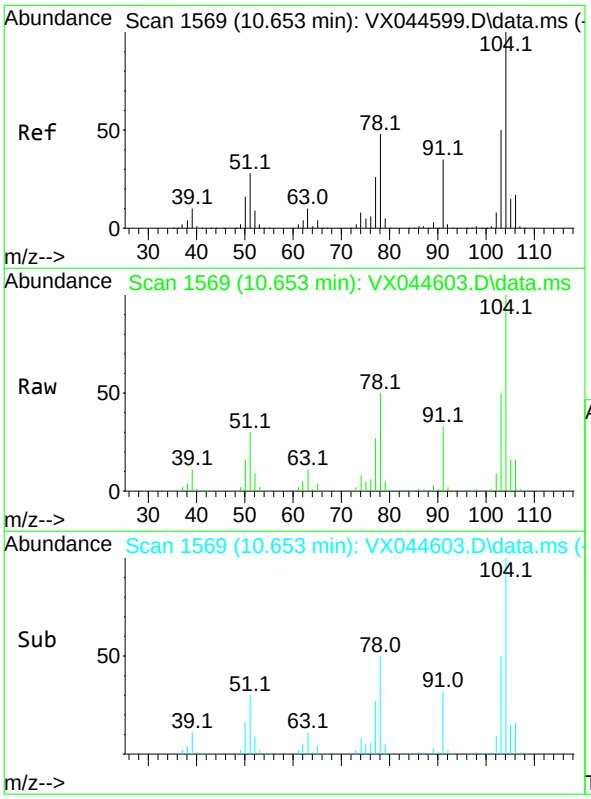
Ion	Ratio	Lower	Upper
106	100		
91	225.6	112.3	336.8



Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Manual Integrations
APPROVED

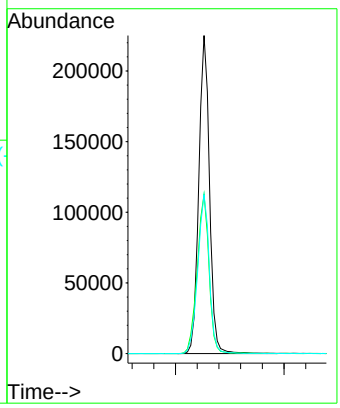
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

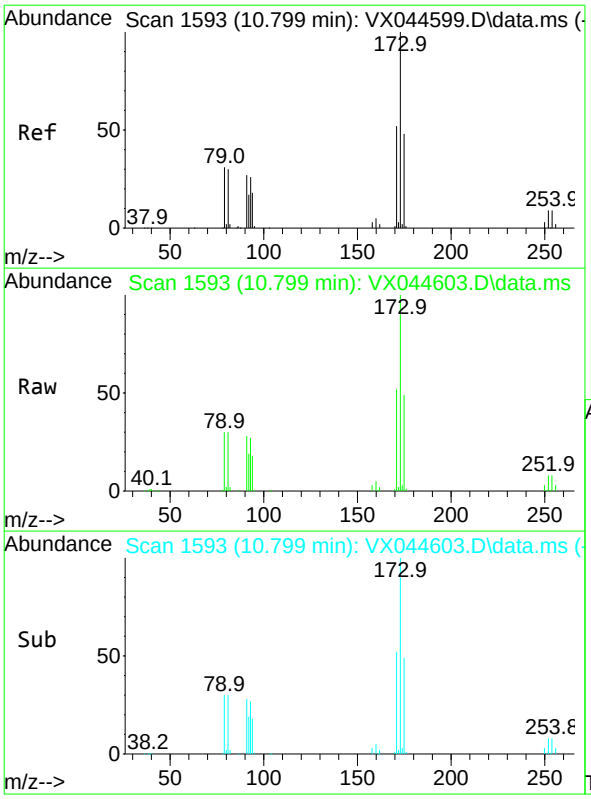


#70
Styrene
Concen: 52.345 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion:104 Resp: 308264

Ion	Ratio	Lower	Upper
104	100		
78	55.3	44.0	66.0
103	54.1	43.8	65.6





#71
Bromoform
Concen: 51.015 ug/l
RT: 10.799 min Scan# 15
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

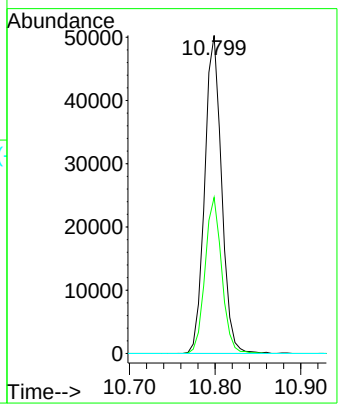
Tgt Ion:173 Resp: 68778

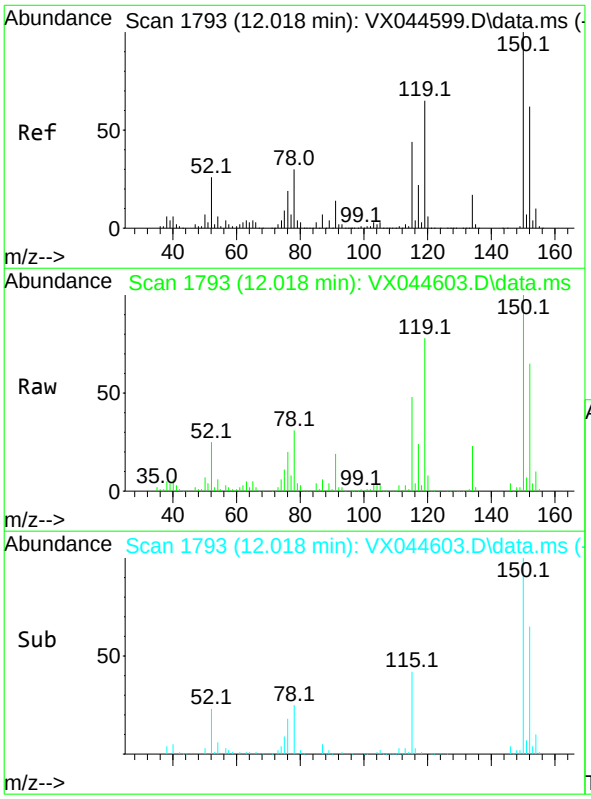
Ion	Ratio	Lower	Upper
173	100		
175	48.4	24.6	73.8
254	0.0	0.0	0.0

Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Manual Integrations APPROVED

Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

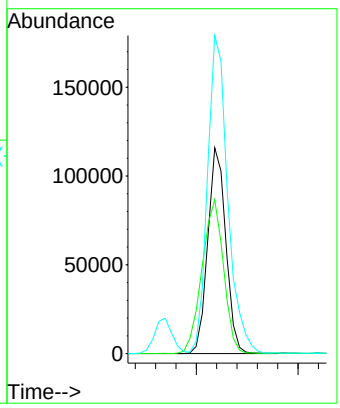


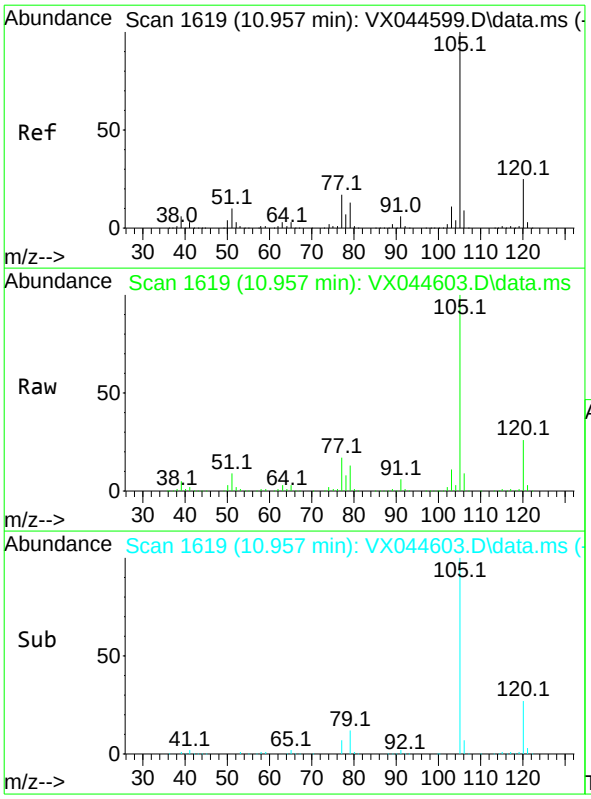


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion:152 Resp: 142987

Ion	Ratio	Lower	Upper
152	100		
115	89.3	44.4	133.1
150	172.8	0.0	355.0

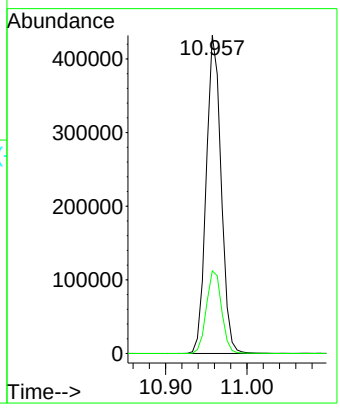




#73
Isopropylbenzene
Concen: 51.780 ug/l
RT: 10.957 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion:105 Resp: 548529

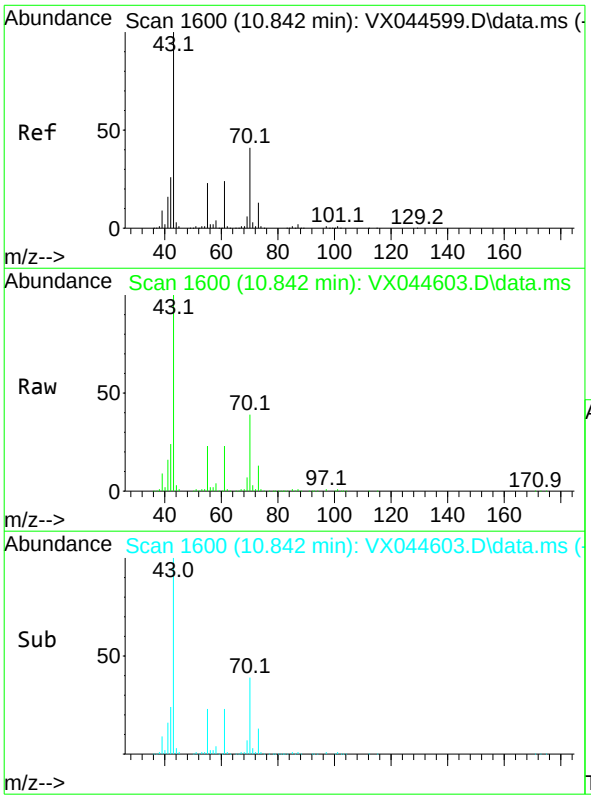
Ion	Ratio	Lower	Upper
105	100		
120	26.6	13.0	38.9



Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Manual Integrations APPROVED

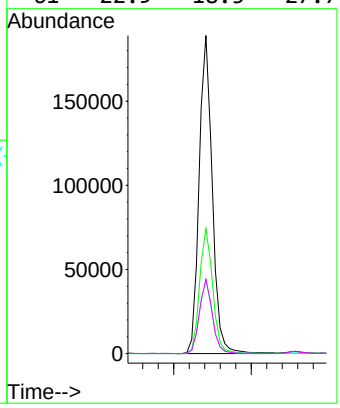
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

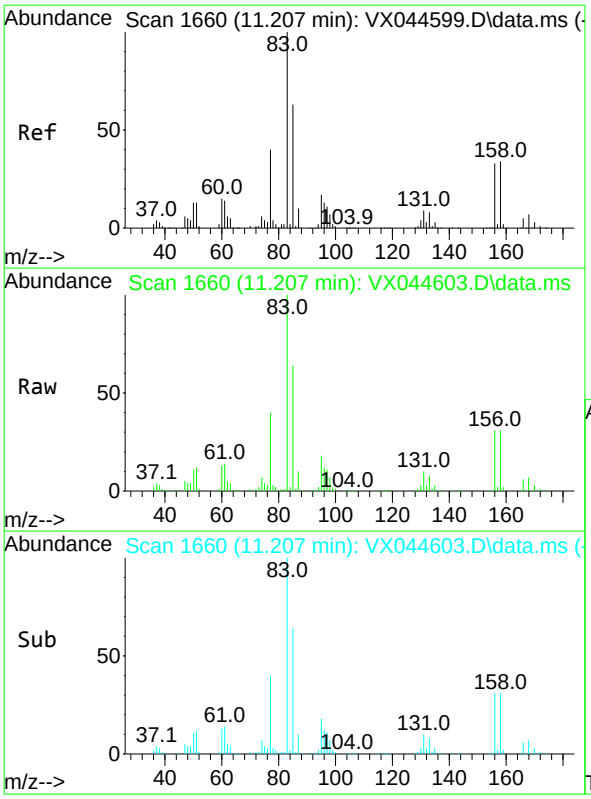


#74
N-amyl acetate
Concen: 51.742 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 43 Resp: 222407

Ion	Ratio	Lower	Upper
43	100		
70	39.3	32.9	49.3
55	23.1	19.0	28.6
61	22.9	18.5	27.7

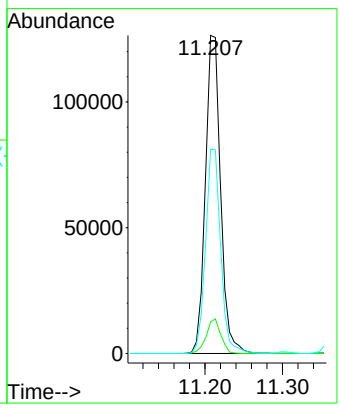




#75
1,1,2,2-Tetrachloroethane
Concen: 50.433 ug/l
RT: 11.207 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 83 Resp: 172209

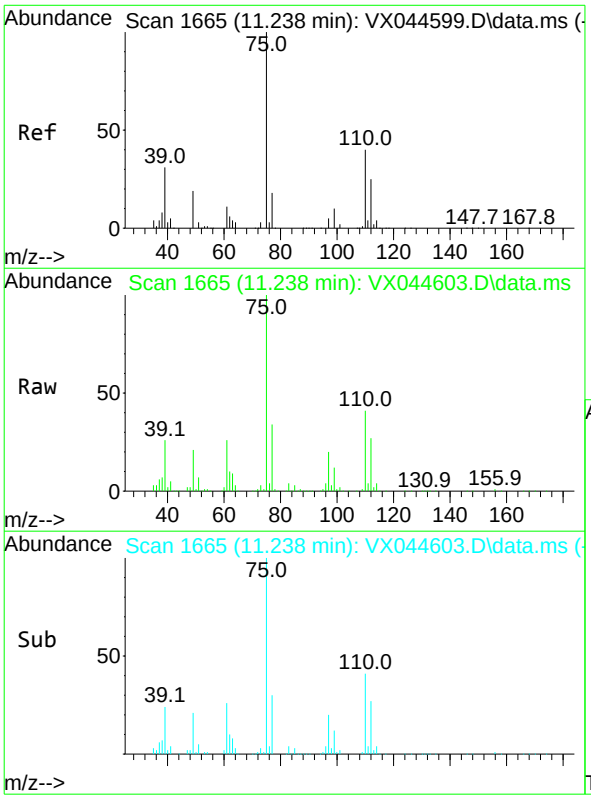
Ion	Ratio	Lower	Upper
83	100		
131	10.5	5.0	15.0
85	64.1	31.9	95.5



Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Manual Integrations APPROVED

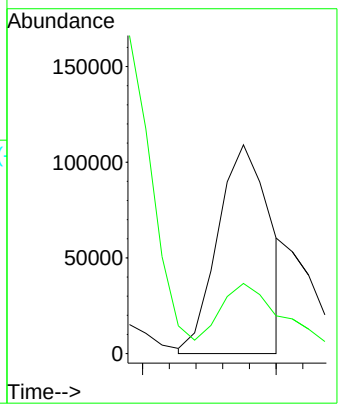
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

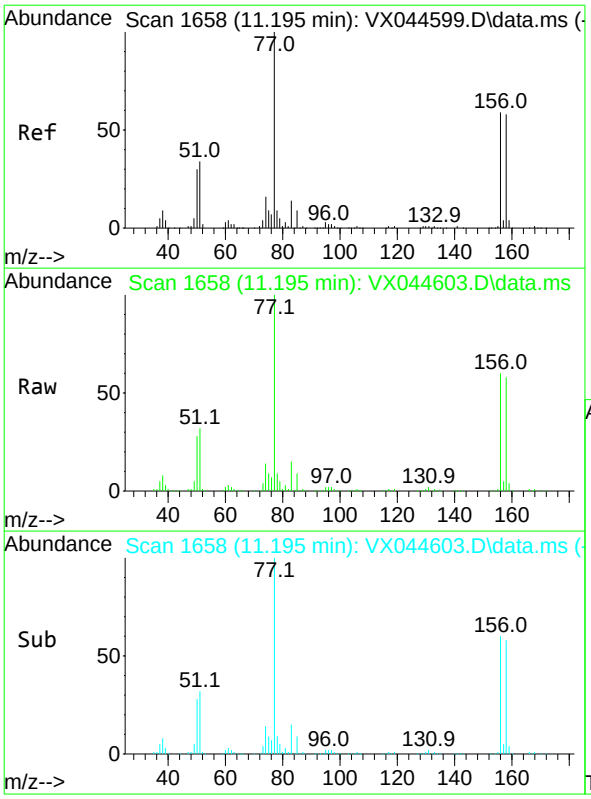


#76
1,2,3-Trichloropropane
Concen: 51.433 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 75 Resp: 147424

Ion	Ratio	Lower	Upper
75	100		
77	42.7	21.1	63.1

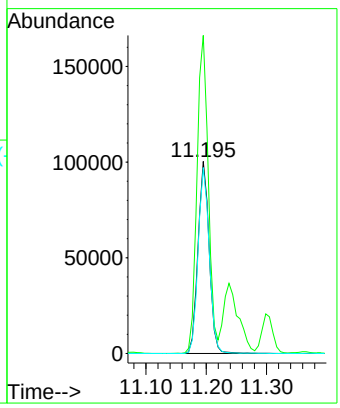




#77
Bromobenzene
Concen: 50.264 ug/l
RT: 11.195 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion:156 Resp: 129350

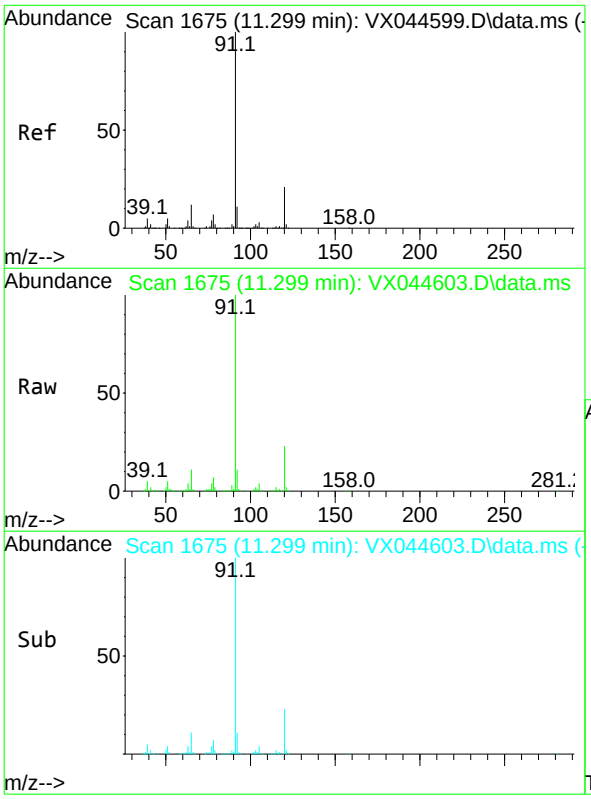
Ion	Ratio	Lower	Upper
156	100		
77	168.0	85.7	257.1
158	96.6	49.9	149.6



Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Manual Integrations
APPROVED

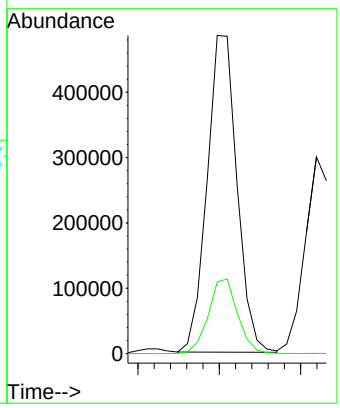
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

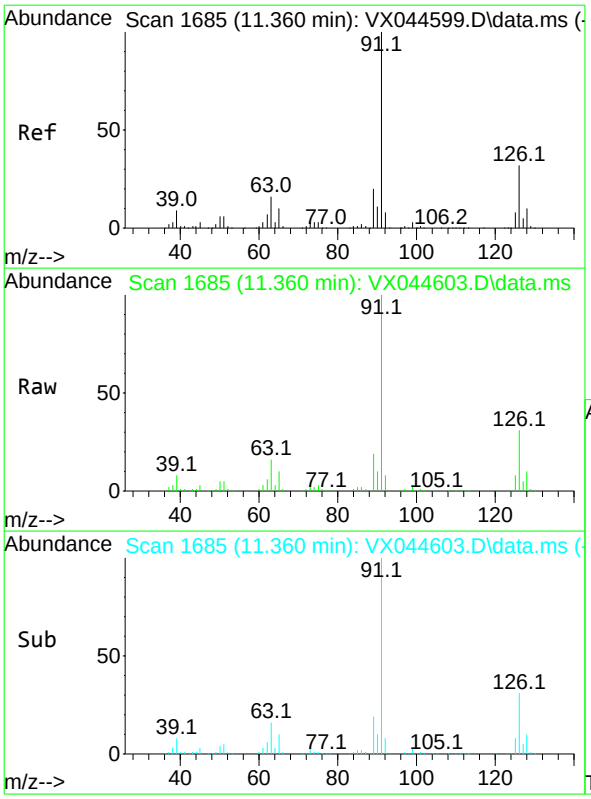


#78
n-propylbenzene
Concen: 51.897 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 91 Resp: 619242

Ion	Ratio	Lower	Upper
91	100		
120	23.0	11.2	33.5

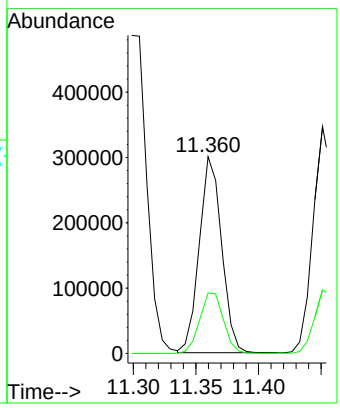




#79
2-Chlorotoluene
Concen: 48.159 ug/l
RT: 11.360 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 91 Resp: 372370

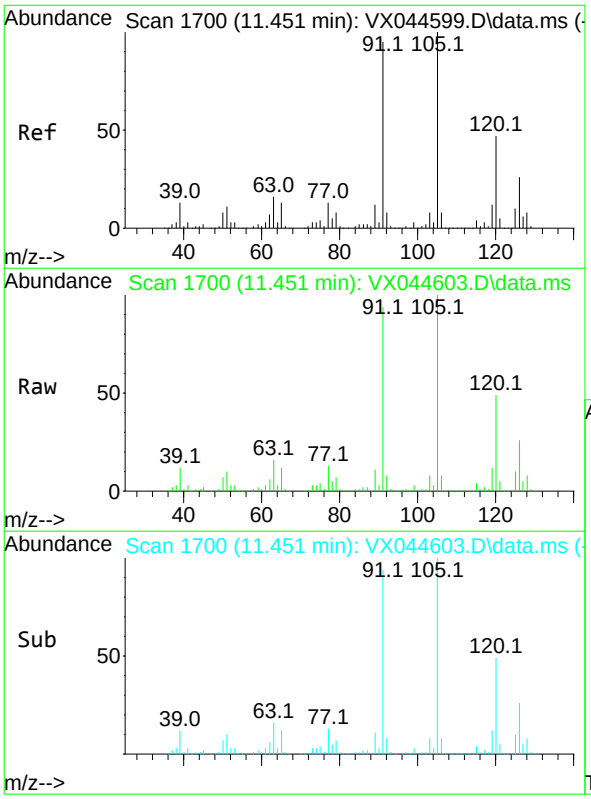
Ion	Ratio	Lower	Upper
91	100		
126	33.0	16.4	49.2



Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Manual Integrations APPROVED

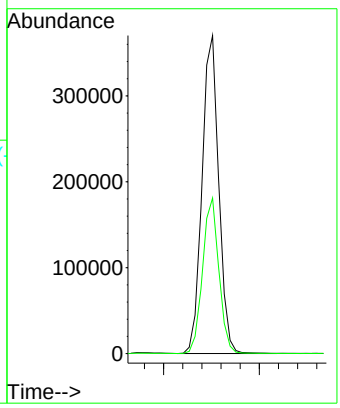
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

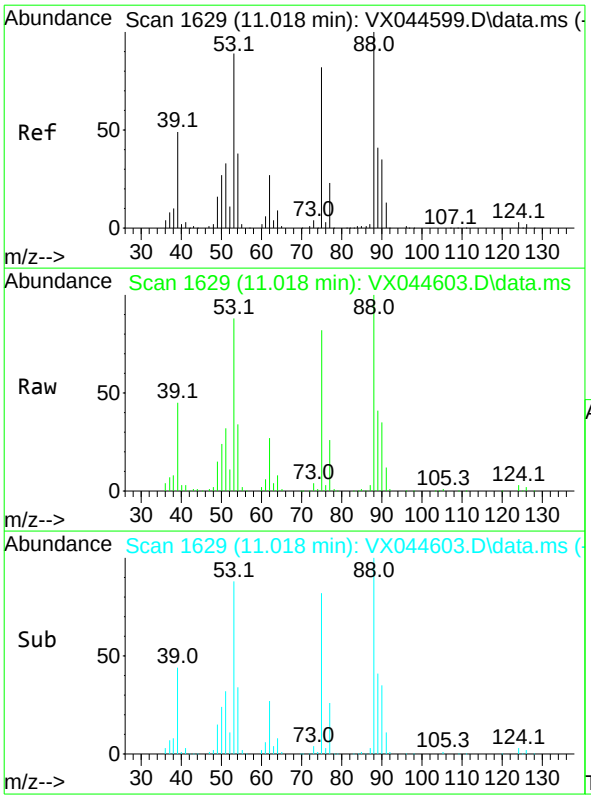


#80
1,3,5-Trimethylbenzene
Concen: 51.065 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion:105 Resp: 448527

Ion	Ratio	Lower	Upper
105	100		
120	47.8	23.5	70.5

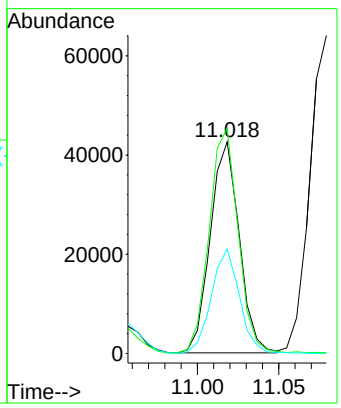




#81
trans-1,4-Dichloro-2-butene
Concen: 55.876 ug/l
RT: 11.018 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 75 Resp: 52615

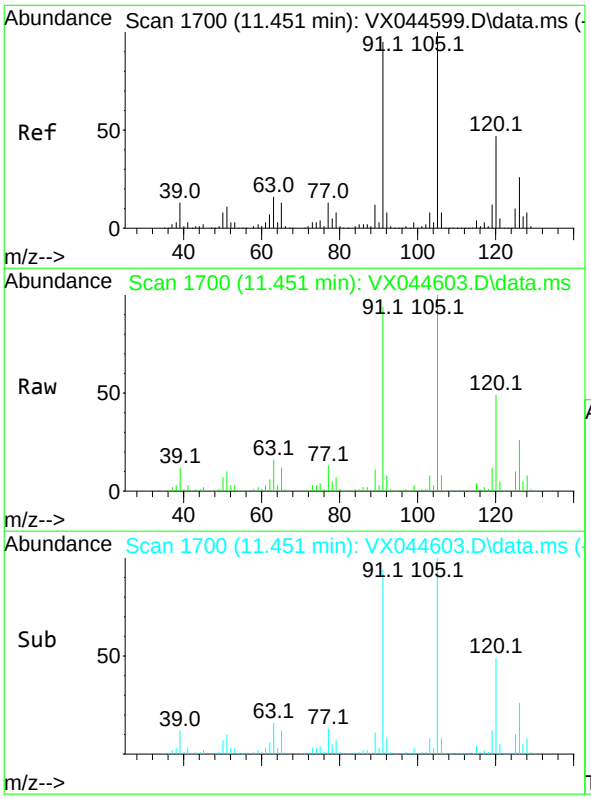
Ion	Ratio	Lower	Upper
75	100		
53	107.8	92.7	139.1
89	48.4	38.3	57.5



Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Manual Integrations
APPROVED

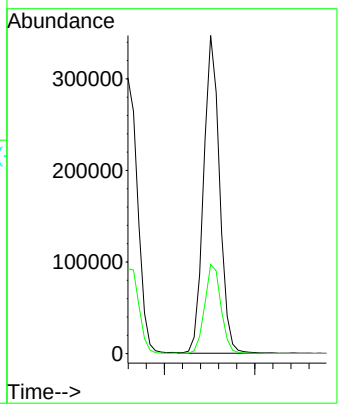
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

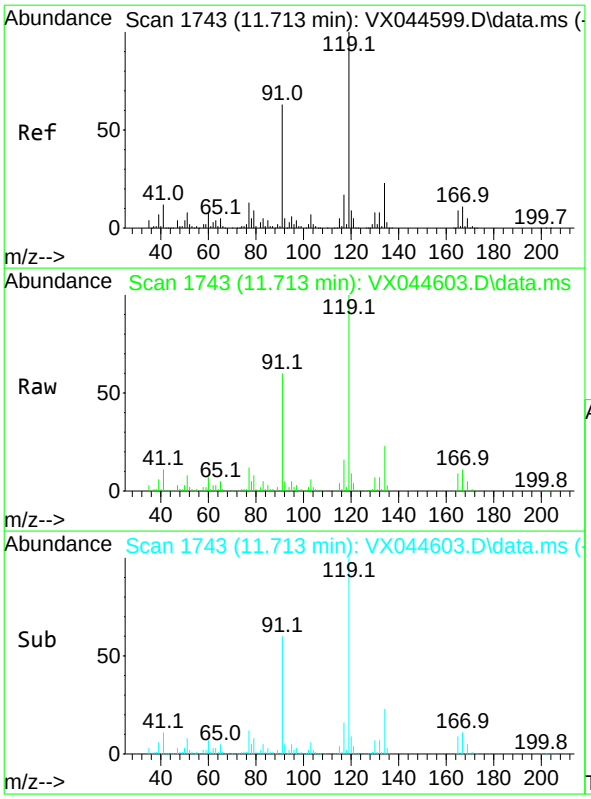


#82
4-Chlorotoluene
Concen: 48.871 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 91 Resp: 425096

Ion	Ratio	Lower	Upper
91	100		
126	28.7	14.0	42.0

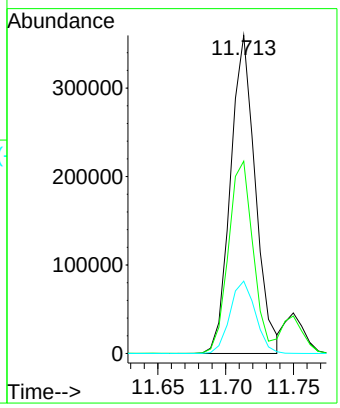




#83
tert-Butylbenzene
Concen: 52.238 ug/l
RT: 11.713 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion:119 Resp: 456871

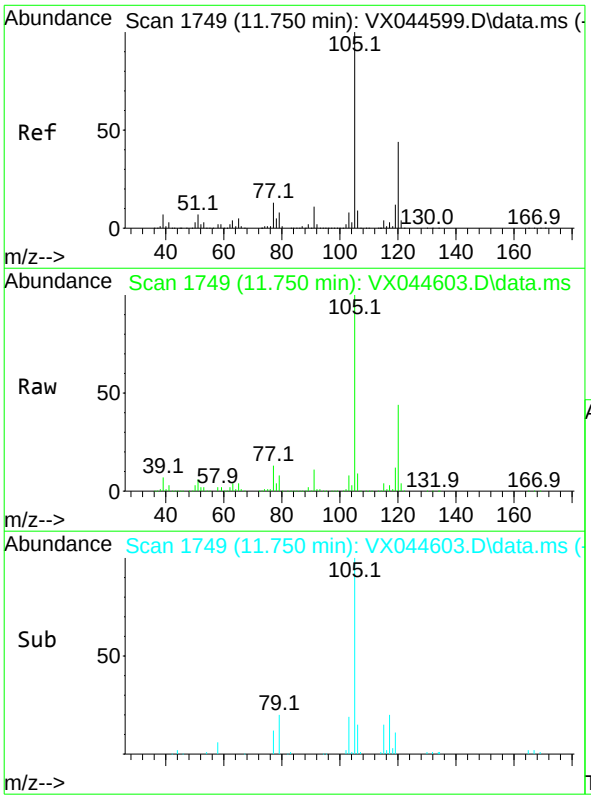
Ion	Ratio	Lower	Upper
119	100		
91	59.9	30.9	92.8
134	23.3	11.7	35.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Manual Integrations APPROVED

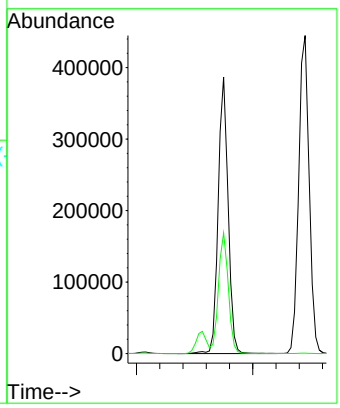
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

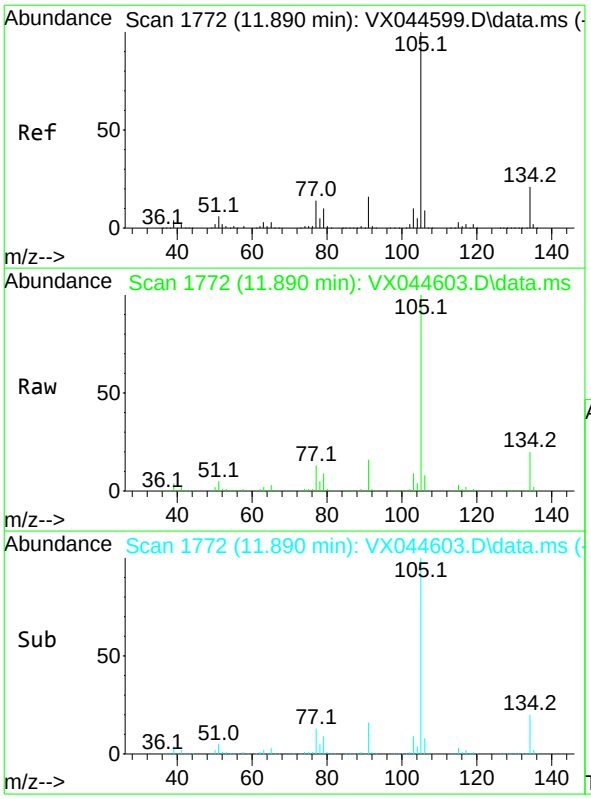


#84
1,2,4-Trimethylbenzene
Concen: 52.007 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion:105 Resp: 458866

Ion	Ratio	Lower	Upper
105	100		
120	43.4	21.9	65.7

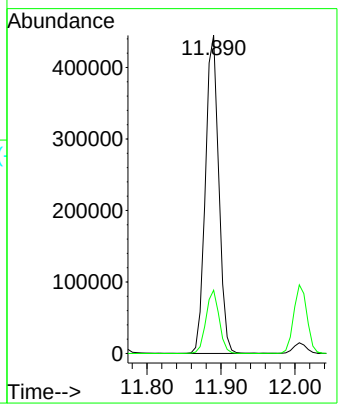




#85
sec-Butylbenzene
Concen: 52.335 ug/l
RT: 11.890 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion:105 Resp: 557449

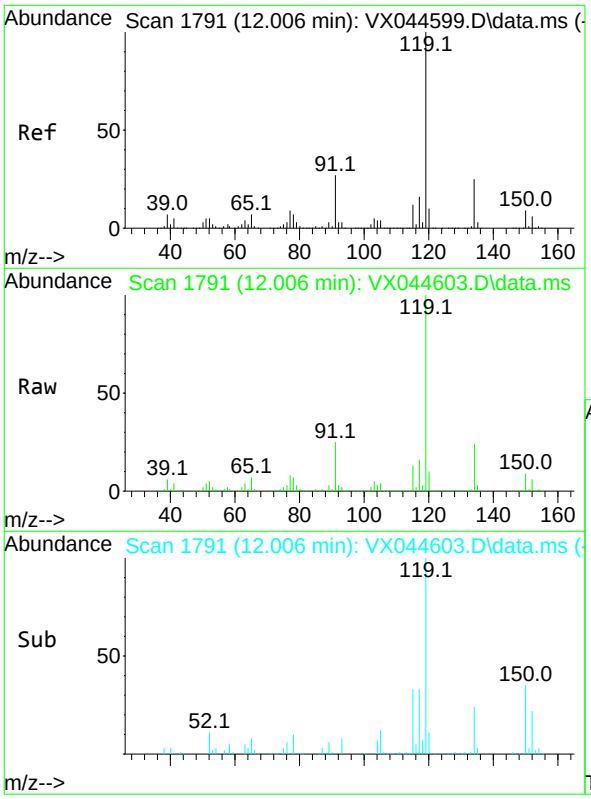
Ion	Ratio	Lower	Upper
105	100		
134	19.7	9.9	29.7



Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Manual Integrations APPROVED

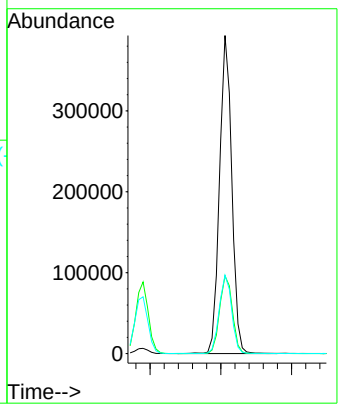
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

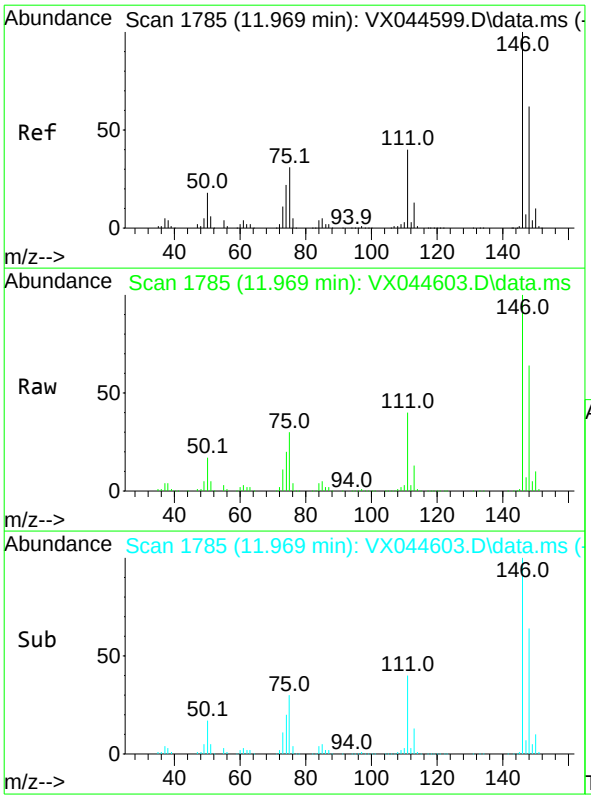


#86
p-Isopropyltoluene
Concen: 52.797 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion:119 Resp: 471864

Ion	Ratio	Lower	Upper
119	100		
134	25.5	12.6	37.8
91	25.2	13.1	39.1

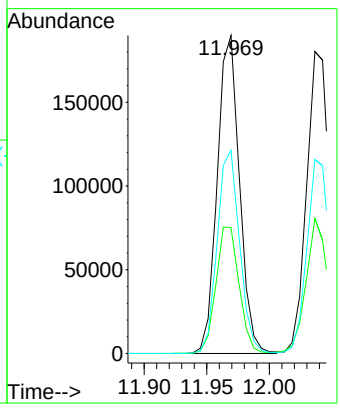




#87
1,3-Dichlorobenzene
Concen: 50.434 ug/l
RT: 11.969 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion:146 Resp: 234785

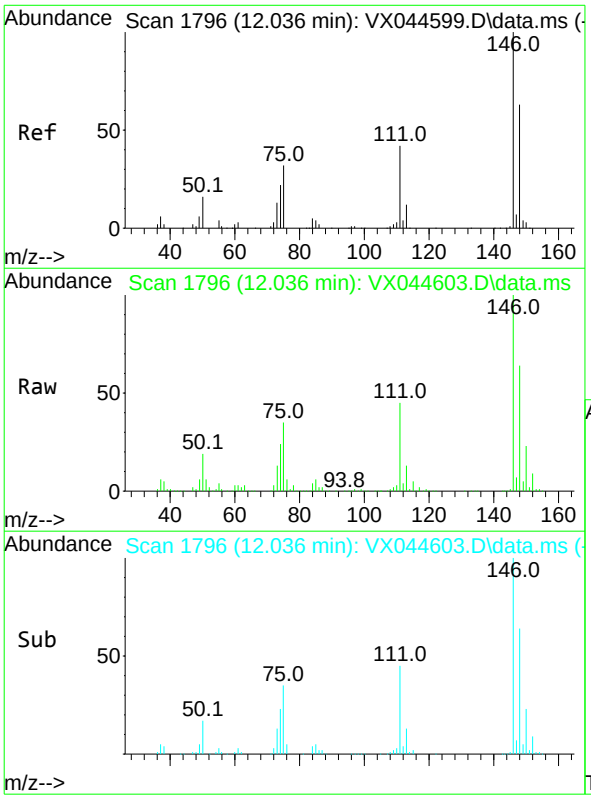
Ion	Ratio	Lower	Upper
146	100		
111	41.4	21.0	63.0
148	64.3	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Manual Integrations APPROVED

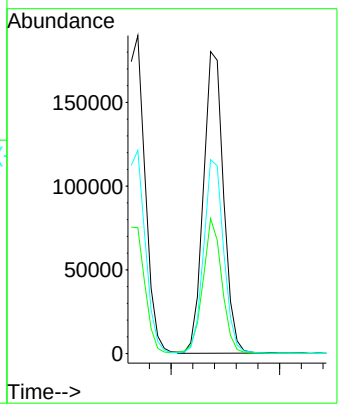
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

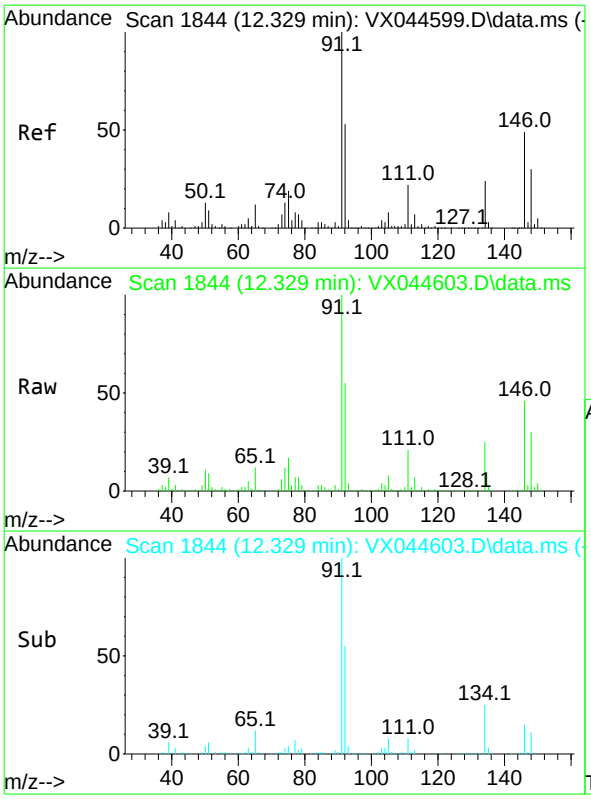


#88
1,4-Dichlorobenzene
Concen: 47.881 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion:146 Resp: 232239

Ion	Ratio	Lower	Upper
146	100		
111	42.3	20.7	62.1
148	64.0	31.8	95.4

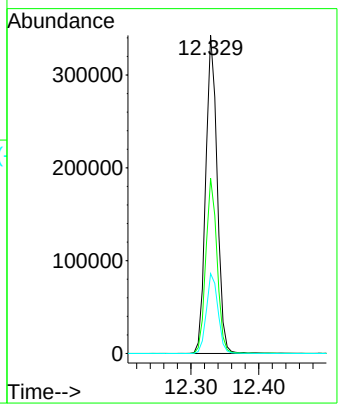




#89
n-Butylbenzene
Concen: 53.259 ug/l
RT: 12.329 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 91 Resp: 401929

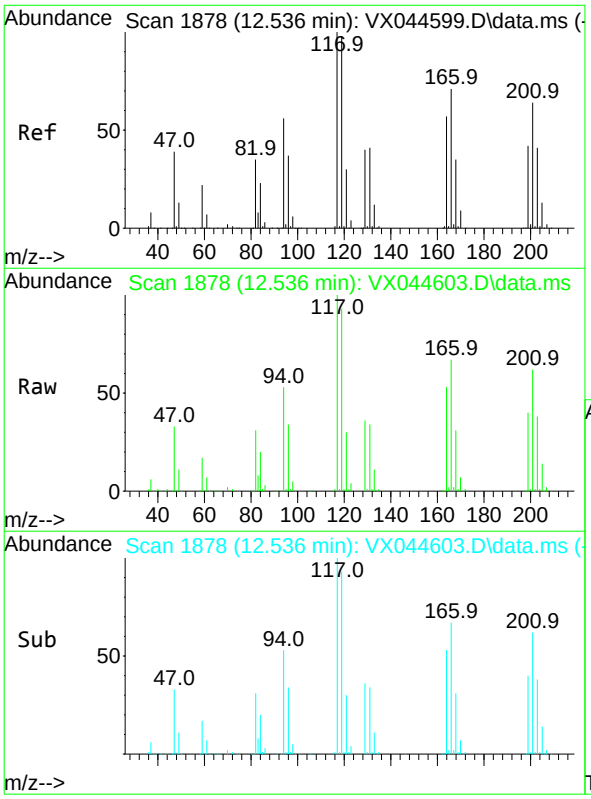
Ion	Ratio	Lower	Upper
91	100		
92	54.0	26.5	79.4
134	25.5	12.4	37.2



Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Manual Integrations APPROVED

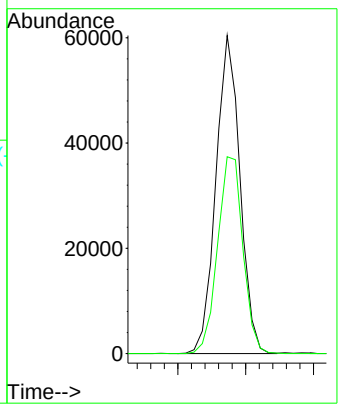
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

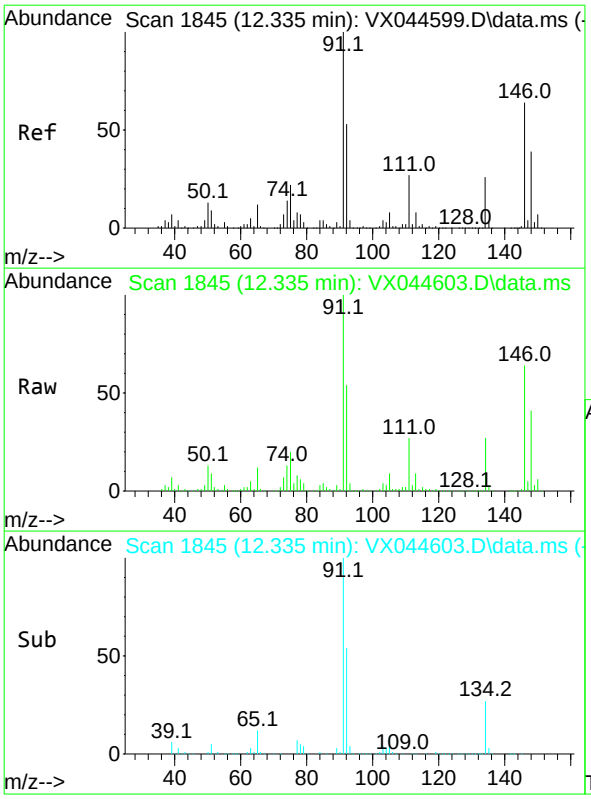


#90
Hexachloroethane
Concen: 51.831 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion:117 Resp: 74415

Ion	Ratio	Lower	Upper
117	100		
201	65.2	33.6	100.6

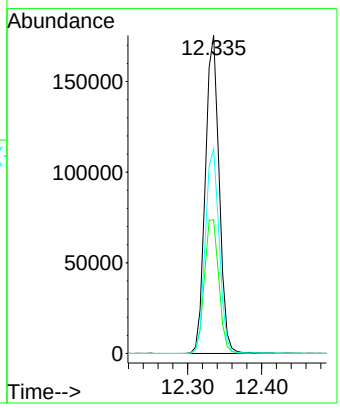




#91
1,2-Dichlorobenzene
Concen: 48.487 ug/l
RT: 12.335 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion:146 Resp: 228094

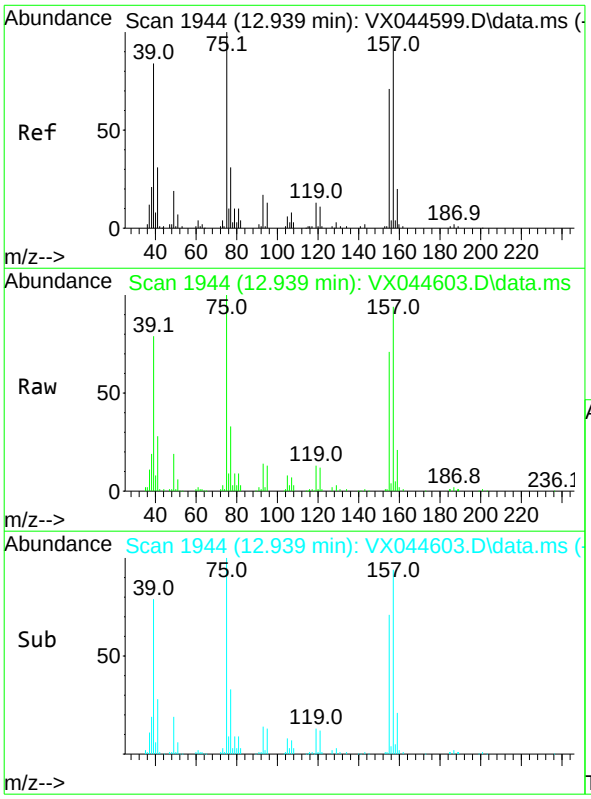
Ion	Ratio	Lower	Upper
146	100		
111	43.9	21.8	65.4
148	64.4	31.1	93.3



Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Manual Integrations APPROVED

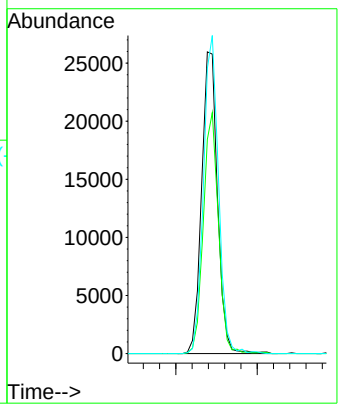
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

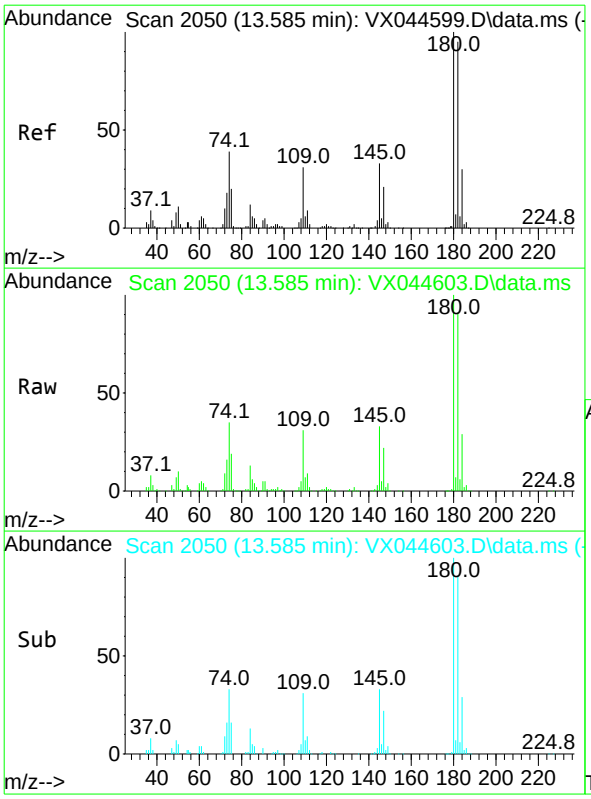


#92
1,2-Dibromo-3-Chloropropane
Concen: 54.385 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 75 Resp: 35205

Ion	Ratio	Lower	Upper
75	100		
155	75.6	37.4	112.1
157	99.7	48.0	144.2

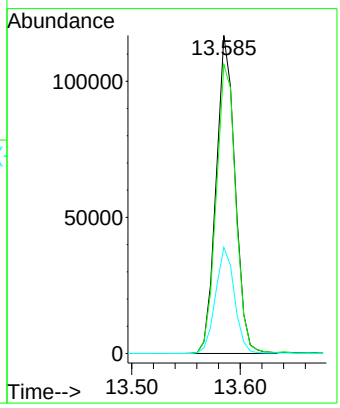




#93
1,2,4-Trichlorobenzene
Concen: 51.107 ug/l
RT: 13.585 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion:180 Resp: 141302

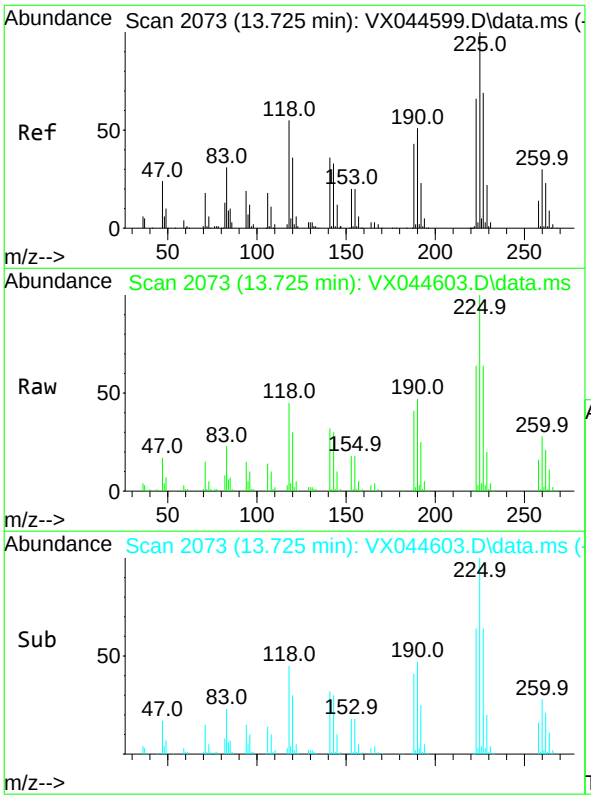
Ion	Ratio	Lower	Upper
180	100		
182	93.9	47.9	143.6
145	33.5	16.3	48.9



Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Manual Integrations APPROVED

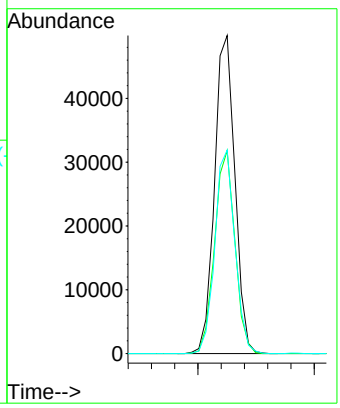
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

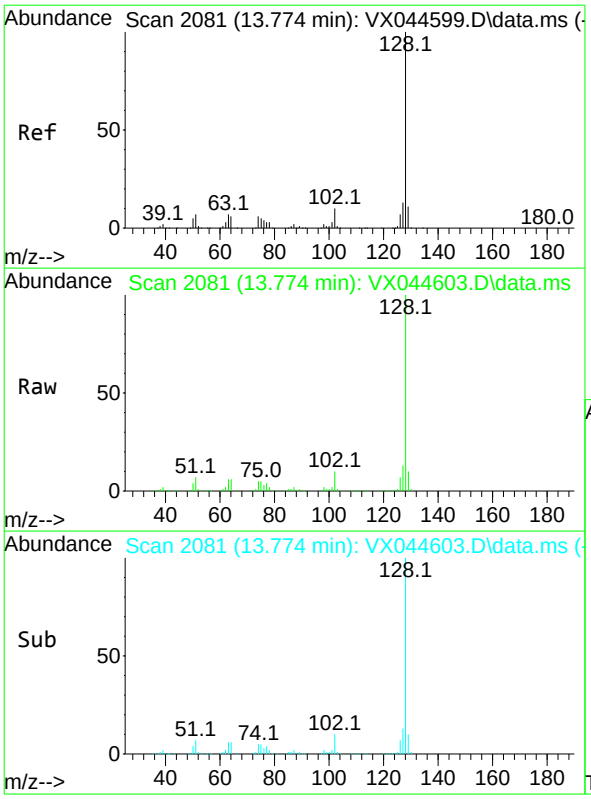


#94
Hexachlorobutadiene
Concen: 52.624 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion:225 Resp: 60585

Ion	Ratio	Lower	Upper
225	100		
223	63.4	31.6	94.8
227	63.1	31.9	95.9

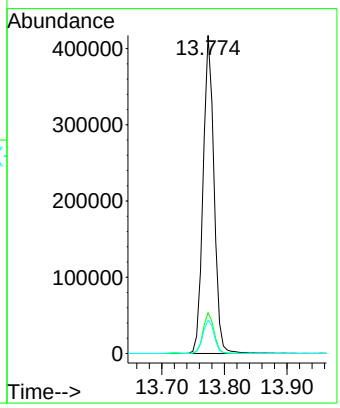




#95
Naphthalene
Concen: 56.632 ug/l
RT: 13.774 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion:128 Resp: 505215

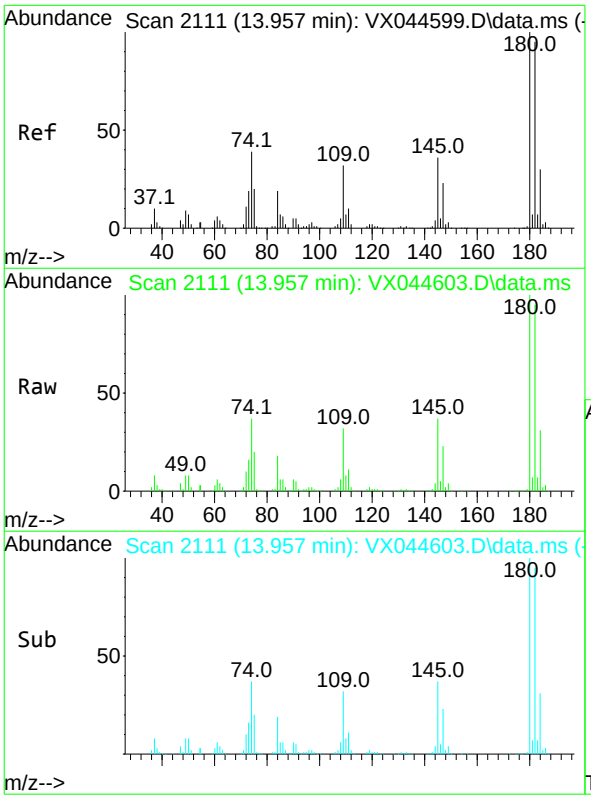
Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.5	15.7
129	10.8	8.6	13.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Manual Integrations
APPROVED

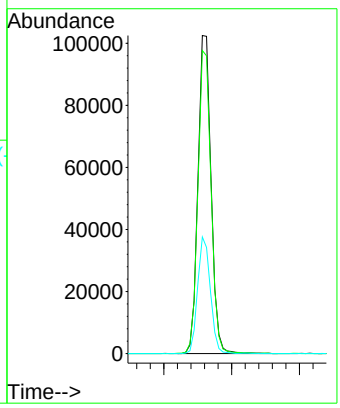
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025



#96
1,2,3-Trichlorobenzene
Concen: 48.678 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion:180 Resp: 137582

Ion	Ratio	Lower	Upper
180	100		
182	95.6	47.6	142.9
145	35.5	17.6	52.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044603.D
Acq On : 07 Jan 2025 15:34
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Quant Time: Jan 08 05:52:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 03:57:12 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	109	0.00
2	T	Dichlorodifluoromethane	0.723	0.724	-0.1	101	0.00
3	P	Chloromethane	0.721	0.631	12.5	93	0.00
4	C	Vinyl Chloride	0.676	0.629	7.0#	97	0.00
5	T	Bromomethane	0.350	0.346	1.1	102	0.00
6	T	Chloroethane	0.387	0.370	4.4	125	0.00
7	T	Trichlorofluoromethane	1.007	1.061	-5.4	107	0.00
8	T	Diethyl Ether	0.356	0.387	-8.7	121	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.577	0.582	-0.9	108	0.00
10	T	Methyl Iodide	0.805	0.738	8.3	99	0.00
11	T	Tert butyl alcohol	0.099	0.101	-2.0	108	-0.02
12	CM	1,1-Dichloroethene	0.559	0.521	6.8#	101	0.00
13	T	Acrolein	0.131	0.131	0.0	107	0.00
14	T	Allyl chloride	0.930	0.932	-0.2	101	0.00
15	T	Acrylonitrile	0.286	0.292	-2.1	104	0.00
16	T	Acetone	0.254	0.275	-8.3	109	0.00
17	T	Carbon Disulfide	1.157	1.198	-3.5	107	0.00
18	T	Methyl Acetate	0.750	0.771	-2.8	108	0.00
19	T	Methyl tert-butyl Ether	1.917	1.927	-0.5	102	0.00
20	T	Methylene Chloride	0.648	0.590	9.0	98	0.00
21	T	trans-1,2-Dichloroethene	0.574	0.551	4.0	104	0.00
22	T	Diisopropyl ether	1.912	1.900	0.6	100	0.00
23	T	Vinyl Acetate	1.546	1.687	-9.1	103	0.00
24	P	1,1-Dichloroethane	1.114	1.073	3.7	99	0.00
25	T	2-Butanone	0.367	0.409	-11.4	109	0.00
26	T	2,2-Dichloropropane	0.963	0.995	-3.3	108	0.00
27	T	cis-1,2-Dichloroethene	0.700	0.656	6.3	98	0.00
28	T	Bromochloromethane	0.519	0.528	-1.7	105	0.00
29	T	Tetrahydrofuran	0.251	0.259	-3.2	107	0.00
30	C	Chloroform	1.201	1.134	5.6#	99	0.00
31	T	Cyclohexane	0.915	0.912	0.3	104	0.00
32	T	1,1,1-Trichloroethane	1.011	1.036	-2.5	104	0.00
33	S	1,2-Dichloroethane-d4	0.806	0.794	1.5	106	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	106	0.00
35	S	Dibromofluoromethane	0.343	0.340	0.9	107	0.00
36	T	1,1-Dichloropropene	0.443	0.446	-0.7	101	0.00
37	T	Ethyl Acetate	0.454	0.503	-10.8	109	0.00
38	T	Carbon Tetrachloride	0.492	0.513	-4.3	105	0.00
39	T	Methylcyclohexane	0.566	0.584	-3.2	107	0.00
40	TM	Benzene	1.396	1.339	4.1	98	0.00
41	T	Methacrylonitrile	0.243	0.274	-12.8	107	-0.01
42	TM	1,2-Dichloroethane	0.546	0.564	-3.3	100	0.00
43	T	Isopropyl Acetate	0.748	0.824	-10.2	107	0.00
44	TM	Trichloroethene	0.357	0.332	7.0	101	0.00
45	C	1,2-Dichloropropane	0.340	0.331	2.6#	97	0.00
46	T	Dibromomethane	0.265	0.261	1.5	100	0.00
47	T	Bromodichloromethane	0.482	0.499	-3.5	101	0.00
48	T	Methyl methacrylate	0.357	0.408	-14.3	105	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044603.D
Acq On : 07 Jan 2025 15:34
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Quant Time: Jan 08 05:52:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 03:57:12 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	0.005	0.006	-20.0	100	0.00
50	S	Toluene-d8	1.171	1.161	0.9	106	0.00
51	T	4-Methyl-2-Pentanone	0.437	0.494	-13.0	107	0.00
52	CM	Toluene	0.842	0.840	0.2#	101	0.00
53	T	t-1,3-Dichloropropene	0.460	0.511	-11.1	104	0.00
54	T	cis-1,3-Dichloropropene	0.517	0.551	-6.6	102	0.00
55	T	1,1,2-Trichloroethane	0.330	0.322	2.4	99	0.00
56	T	Ethyl methacrylate	0.480	0.527	-9.8	103	0.00
57	T	1,3-Dichloropropane	0.554	0.567	-2.3	100	0.00
58	T	2-Chloroethyl Vinyl ether	0.238	0.246	-3.4	99	0.00
59	T	2-Hexanone	0.309	0.362	-17.2	107	0.00
60	T	Dibromochloromethane	0.329	0.361	-9.7	104	0.00
61	T	1,2-Dibromoethane	0.333	0.344	-3.3	104	0.00
62	S	4-Bromofluorobenzene	0.413	0.476	-15.3	121	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	105	0.00
64	T	Tetrachloroethene	0.354	0.340	4.0	103	0.00
65	PM	Chlorobenzene	1.061	1.044	1.6	100	0.00
66	T	1,1,1,2-Tetrachloroethane	0.352	0.366	-4.0	103	0.00
67	C	Ethyl Benzene	1.822	1.867	-2.5#	101	0.00
68	T	m/p-Xylenes	0.670	0.688	-2.7	101	0.00
69	T	o-Xylene	0.676	0.670	0.9	101	0.00
70	T	Styrene	1.081	1.132	-4.7	100	0.00
71	P	Bromoform	0.232	0.253	-9.1	107	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	118	0.00
73	T	Isopropylbenzene	3.704	3.836	-3.6	117	0.00
74	T	N-amyl acetate	1.503	1.555	-3.5	107	0.00
75	P	1,1,2,2-Tetrachloroethane	1.194	1.204	-0.8	113	0.00
76	T	1,2,3-Trichloropropane	1.002	1.031	-2.9	117	0.00
77	T	Bromobenzene	0.900	0.905	-0.6	115	0.00
78	T	n-propylbenzene	4.172	4.331	-3.8	114	0.00
79	T	2-Chlorotoluene	2.704	2.604	3.7	110	0.00
80	T	1,3,5-Trimethylbenzene	3.071	3.137	-2.1	112	0.00
81	T	trans-1,4-Dichloro-2-butene	0.329	0.368	-11.9	122	0.00
82	T	4-Chlorotoluene	3.042	2.973	2.3	110	0.00
83	T	tert-Butylbenzene	3.058	3.195	-4.5	117	0.00
84	T	1,2,4-Trimethylbenzene	3.085	3.209	-4.0	114	0.00
85	T	sec-Butylbenzene	3.725	3.899	-4.7	117	0.00
86	T	p-Isopropyltoluene	3.125	3.300	-5.6	116	0.00
87	T	1,3-Dichlorobenzene	1.628	1.642	-0.9	115	0.00
88	T	1,4-Dichlorobenzene	1.696	1.624	4.2	114	0.00
89	T	n-Butylbenzene	2.639	2.811	-6.5	113	0.00
90	T	Hexachloroethane	0.502	0.520	-3.6	119	0.00
91	T	1,2-Dichlorobenzene	1.645	1.595	3.0	111	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.226	0.246	-8.8	117	0.00
93	T	1,2,4-Trichlorobenzene	0.967	0.988	-2.2	117	0.00
94	T	Hexachlorobutadiene	0.403	0.424	-5.2	123	0.00
95	T	Naphthalene	3.120	3.533	-13.2	123	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044603.D
Acq On : 07 Jan 2025 15:34
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Quant Time: Jan 08 05:52:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 03:57:12 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.988	0.962	2.6	111	0.00

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044603.D
Acq On : 07 Jan 2025 15:34
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Quant Time: Jan 08 05:52:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 03:57:12 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	109	0.00
2	T	Dichlorodifluoromethane	50.000	50.020	-0.0	101	0.00
3	P	Chloromethane	50.000	43.735	12.5	93	0.00
4	C	Vinyl Chloride	50.000	46.536	6.9#	97	0.00
5	T	Bromomethane	50.000	49.378	1.2	102	0.00
6	T	Chloroethane	50.000	47.863	4.3	125	0.00
7	T	Trichlorofluoromethane	50.000	52.700	-5.4	107	0.00
8	T	Diethyl Ether	50.000	54.402	-8.8	121	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	50.428	-0.9	108	0.00
10	T	Methyl Iodide	50.000	45.809	8.4	99	0.00
11	T	Tert butyl alcohol	250.000	253.232	-1.3	108	-0.02
12	CM	1,1-Dichloroethene	50.000	46.573	6.9#	101	0.00
13	T	Acrolein	250.000	249.358	0.3	107	0.00
14	T	Allyl chloride	50.000	50.095	-0.2	101	0.00
15	T	Acrylonitrile	250.000	255.311	-2.1	104	0.00
16	T	Acetone	250.000	270.648	-8.3	109	0.00
17	T	Carbon Disulfide	50.000	51.792	-3.6	107	0.00
18	T	Methyl Acetate	50.000	51.415	-2.8	108	0.00
19	T	Methyl tert-butyl Ether	50.000	50.254	-0.5	102	0.00
20	T	Methylene Chloride	50.000	45.503	9.0	98	0.00
21	T	trans-1,2-Dichloroethene	50.000	48.023	4.0	104	0.00
22	T	Diisopropyl ether	50.000	49.668	0.7	100	0.00
23	T	Vinyl Acetate	250.000	272.695	-9.1	103	0.00
24	P	1,1-Dichloroethane	50.000	48.129	3.7	99	0.00
25	T	2-Butanone	250.000	278.669	-11.5	109	0.00
26	T	2,2-Dichloropropane	50.000	51.617	-3.2	108	0.00
27	T	cis-1,2-Dichloroethene	50.000	46.837	6.3	98	0.00
28	T	Bromochloromethane	50.000	50.910	-1.8	105	0.00
29	T	Tetrahydrofuran	250.000	258.181	-3.3	107	0.00
30	C	Chloroform	50.000	47.209	5.6#	99	0.00
31	T	Cyclohexane	50.000	49.840	0.3	104	0.00
32	T	1,1,1-Trichloroethane	50.000	51.235	-2.5	104	0.00
33	S	1,2-Dichloroethane-d4	50.000	49.246	1.5	106	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	106	0.00
35	S	Dibromofluoromethane	50.000	49.600	0.8	107	0.00
36	T	1,1-Dichloropropene	50.000	50.296	-0.6	101	0.00
37	T	Ethyl Acetate	50.000	55.503	-11.0	109	0.00
38	T	Carbon Tetrachloride	50.000	52.106	-4.2	105	0.00
39	T	Methylcyclohexane	50.000	51.612	-3.2	107	0.00
40	TM	Benzene	50.000	47.956	4.1	98	0.00
41	T	Methacrylonitrile	50.000	56.367	-12.7	107	-0.01
42	TM	1,2-Dichloroethane	50.000	51.677	-3.4	100	0.00
43	T	Isopropyl Acetate	50.000	55.077	-10.2	107	0.00
44	TM	Trichloroethene	50.000	46.528	6.9	101	0.00
45	C	1,2-Dichloropropane	50.000	48.692	2.6#	97	0.00
46	T	Dibromomethane	50.000	49.332	1.3	100	0.00
47	T	Bromodichloromethane	50.000	51.813	-3.6	101	0.00
48	T	Methyl methacrylate	50.000	57.212	-14.4	105	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044603.D
Acq On : 07 Jan 2025 15:34
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Quant Time: Jan 08 05:52:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 03:57:12 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	1054.109	-5.4	100	0.00
50	S	Toluene-d8	50.000	49.585	0.8	106	0.00
51	T	4-Methyl-2-Pentanone	250.000	282.088	-12.8	107	0.00
52	CM	Toluene	50.000	49.893	0.2#	101	0.00
53	T	t-1,3-Dichloropropene	50.000	55.511	-11.0	104	0.00
54	T	cis-1,3-Dichloropropene	50.000	53.210	-6.4	102	0.00
55	T	1,1,2-Trichloroethane	50.000	48.736	2.5	99	0.00
56	T	Ethyl methacrylate	50.000	54.925	-9.8	103	0.00
57	T	1,3-Dichloropropane	50.000	51.108	-2.2	100	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	258.112	-3.2	99	0.00
59	T	2-Hexanone	250.000	292.615	-17.0	107	0.00
60	T	Dibromochloromethane	50.000	54.749	-9.5	104	0.00
61	T	1,2-Dibromoethane	50.000	51.516	-3.0	104	0.00
62	S	4-Bromofluorobenzene	50.000	57.528	-15.1	121	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	105	0.00
64	T	Tetrachloroethene	50.000	48.035	3.9	103	0.00
65	PM	Chlorobenzene	50.000	49.177	1.6	100	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	51.911	-3.8	103	0.00
67	C	Ethyl Benzene	50.000	51.215	-2.4#	101	0.00
68	T	m/p-Xylenes	100.000	102.808	-2.8	101	0.00
69	T	o-Xylene	50.000	49.559	0.9	101	0.00
70	T	Styrene	50.000	52.345	-4.7	100	0.00
71	P	Bromoform	50.000	51.015	-2.0	107	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	118	0.00
73	T	Isopropylbenzene	50.000	51.780	-3.6	117	0.00
74	T	N-amyl acetate	50.000	51.742	-3.5	107	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	50.433	-0.9	113	0.00
76	T	1,2,3-Trichloropropane	50.000	51.433	-2.9	117	0.00
77	T	Bromobenzene	50.000	50.264	-0.5	115	0.00
78	T	n-propylbenzene	50.000	51.897	-3.8	114	0.00
79	T	2-Chlorotoluene	50.000	48.159	3.7	110	0.00
80	T	1,3,5-Trimethylbenzene	50.000	51.065	-2.1	112	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	55.876	-11.8	122	0.00
82	T	4-Chlorotoluene	50.000	48.871	2.3	110	0.00
83	T	tert-Butylbenzene	50.000	52.238	-4.5	117	0.00
84	T	1,2,4-Trimethylbenzene	50.000	52.007	-4.0	114	0.00
85	T	sec-Butylbenzene	50.000	52.335	-4.7	117	0.00
86	T	p-Isopropyltoluene	50.000	52.797	-5.6	116	0.00
87	T	1,3-Dichlorobenzene	50.000	50.434	-0.9	115	0.00
88	T	1,4-Dichlorobenzene	50.000	47.881	4.2	114	0.00
89	T	n-Butylbenzene	50.000	53.259	-6.5	113	0.00
90	T	Hexachloroethane	50.000	51.831	-3.7	119	0.00
91	T	1,2-Dichlorobenzene	50.000	48.487	3.0	111	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	54.385	-8.8	117	0.00
93	T	1,2,4-Trichlorobenzene	50.000	51.107	-2.2	117	0.00
94	T	Hexachlorobutadiene	50.000	52.624	-5.2	123	0.00
95	T	Naphthalene	50.000	56.632	-13.3	123	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044603.D
Acq On : 07 Jan 2025 15:34
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Quant Time: Jan 08 05:52:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 03:57:12 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	48.678	2.6	111	0.00

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

Alliance TECHNICAL GROUP

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1022 SAS No.: Q1022 SDG No.: Q1022

Instrument ID: MSVOA_X Calibration Date/Time: 01/07/2025 19:37

Lab File ID: VX044613.D Init. Calib. Date(s): 01/07/2025 01/07/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:06 12:00

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Chloromethane	0.721	0.767	0.1	6.38	50
Vinyl Chloride	0.676	0.734		8.58	50
Bromomethane	0.350	0.372		6.29	50
Chloroethane	0.387	0.385		-0.52	50
Trichlorofluoromethane	1.007	1.105		9.73	50
1,1,2-Trichlorotrifluoroethane	0.577	0.596		3.29	50
1,1-Dichloroethene	0.559	0.569		1.79	50
Acetone	0.254	0.293		15.35	50
Carbon Disulfide	1.157	1.242		7.35	50
Methyl tert-butyl Ether	1.917	2.102		9.65	50
Methylene Chloride	0.648	0.673		3.86	50
trans-1,2-Dichloroethene	0.574	0.581		1.22	50
1,1-Dichloroethane	1.114	1.187	0.1	6.55	50
2-Butanone	0.367	0.441		20.16	50
Carbon Tetrachloride	0.492	0.508		3.25	50
cis-1,2-Dichloroethene	0.700	0.741		5.86	50
Chloroform	1.201	1.263		5.16	50
1,1,1-Trichloroethane	1.011	1.107		9.5	50
Methylcyclohexane	0.566	0.562		-0.71	50
Benzene	1.396	1.418		1.58	50
1,2-Dichloroethane	0.546	0.602		10.26	50
Trichloroethene	0.357	0.344		-3.64	50
1,2-Dichloropropane	0.340	0.353		3.82	50
Bromodichloromethane	0.482	0.530		9.96	50
4-Methyl-2-Pentanone	0.437	0.511		16.93	50
Toluene	0.842	0.870		3.33	50
t-1,3-Dichloropropene	0.460	0.511		11.09	50
cis-1,3-Dichloropropene	0.517	0.555		7.35	50
1,1,2-Trichloroethane	0.330	0.348		5.45	50
2-Hexanone	0.309	0.374		21.04	50
Dibromochloromethane	0.329	0.365		10.94	50
Tetrachloroethene	0.354	0.336		-5.09	50
Chlorobenzene	1.061	1.087	0.3	2.45	50
Ethyl Benzene	1.822	1.948		6.91	50
m/p-Xylenes	0.670	0.721		7.61	50
o-Xylene	0.676	0.707		4.59	50
Styrene	1.081	1.185		9.62	50
Bromoform	0.232	0.258	0.1	11.21	50

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

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1022 SAS No.: Q1022 SDG No.: Q1022

Instrument ID: MSVOA_X Calibration Date/Time: 01/07/2025 19:37

Lab File ID: VX044613.D Init. Calib. Date(s): 01/07/2025 01/07/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:06 12:00

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Isopropylbenzene	3.704	3.898		5.24	50
1,1,2,2-Tetrachloroethane	1.194	1.276	0.3	6.87	50
1,3-Dichlorobenzene	1.628	1.657		1.78	50
1,4-Dichlorobenzene	1.696	1.652		-2.59	50
1,2-Dichlorobenzene	1.645	1.699		3.28	50
1,2-Dichloroethane-d4	0.806	0.902		11.91	50
Dibromofluoromethane	0.343	0.357		4.08	50
Toluene-d8	1.171	1.217		3.93	50
4-Bromofluorobenzene	0.413	0.433		4.84	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\VX010725\
Data File : VX044613.D
Acq On : 07 Jan 2025 19:37
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jan 08 05:57:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 03:57:12 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	168032	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	295835	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	253685	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	118886	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	151564	55.942	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 111.880%			
35) Dibromofluoromethane	5.379	113	105618	52.065	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.120%			
50) Toluene-d8	8.647	98	360090	51.967	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 103.940%			
62) 4-Bromofluorobenzene	11.079	95	128195	52.415	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 104.840%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	134539	55.337	ug/l	98
3) Chloromethane	1.295	50	128841	53.178	ug/l	96
4) Vinyl Chloride	1.374	62	123309	54.253	ug/l	99
5) Bromomethane	1.593	94	62546	53.125	ug/l	98
6) Chloroethane	1.666	64	64752	49.799	ug/l	94
7) Trichlorofluoromethane	1.874	101	185599	54.842	ug/l	98
8) Diethyl Ether	2.136	74	67148	56.153	ug/l	90
9) 1,1,2-Trichlorotrifluo...	2.319	101	100212	51.646	ug/l	99
10) Methyl Iodide	2.447	142	140962	52.097	ug/l	99
11) Tert butyl alcohol	2.995	59	98297	294.641	ug/l	97
12) 1,1-Dichloroethene	2.313	96	95617	50.866	ug/l	96
13) Acrolein	2.233	56	134997	306.047	ug/l	100
14) Allyl chloride	2.660	41	170117	54.415	ug/l	98
15) Acrylonitrile	3.063	53	269181	280.157	ug/l	99
16) Acetone	2.380	43	246540	288.715	ug/l	100
17) Carbon Disulfide	2.502	76	208698	53.692	ug/l	98
18) Methyl Acetate	2.703	43	140271	55.654	ug/l	99
19) Methyl tert-butyl Ether	3.111	73	353121	54.815	ug/l	99
20) Methylene Chloride	2.782	84	113109	51.920	ug/l	98
21) trans-1,2-Dichloroethene	3.087	96	97667	50.624	ug/l	97
22) Diisopropyl ether	3.757	45	354623	55.179	ug/l	99
23) Vinyl Acetate	3.715	43	1535167	295.397	ug/l	100
24) 1,1-Dichloroethane	3.605	63	199407	53.250	ug/l	99
25) 2-Butanone	4.556	43	370671	300.736	ug/l	96
26) 2,2-Dichloropropane	4.471	77	166708	51.490	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	124483	52.916	ug/l	100
28) Bromochloromethane	4.891	49	87592	50.249	ug/l	97
29) Tetrahydrofuran	5.001	42	241460	286.076	ug/l	99
30) Chloroform	5.087	83	212184	52.559	ug/l	99
31) Cyclohexane	5.458	56	159553	51.894	ug/l	97
32) 1,1,1-Trichloroethane	5.373	97	185991	54.744	ug/l	99
36) 1,1-Dichloropropene	5.684	75	136474	52.027	ug/l	99
37) Ethyl Acetate	4.709	43	153095	57.053	ug/l	99
38) Carbon Tetrachloride	5.672	117	150161	51.595	ug/l	97
39) Methylcyclohexane	7.373	83	166246	49.669	ug/l	98
40) Benzene	6.031	78	419445	50.785	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044613.D
Acq On : 07 Jan 2025 19:37
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jan 08 05:57:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 03:57:12 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	4.922	41	87090	60.464 ug/l		95
42) 1,2-Dichloroethane	6.080	62	178223	55.178 ug/l		100
43) Isopropyl Acetate	6.336	43	248008	56.022 ug/l		99
44) Trichloroethene	7.123	130	101890	48.261 ug/l		95
45) 1,2-Dichloropropane	7.421	63	104468	51.880 ug/l		96
46) Dibromomethane	7.574	93	81733	52.190 ug/l		98
47) Bromodichloromethane	7.818	83	156733	54.997 ug/l		98
48) Methyl methacrylate	7.696	41	124321	58.879 ug/l		97
49) 1,4-Dioxane	7.665	88	38760	1249.198 ug/l		97
51) 4-Methyl-2-Pentanone	8.574	43	756374	292.284 ug/l		100
52) Toluene	8.714	92	257402	51.653 ug/l		99
53) t-1,3-Dichloropropene	8.976	75	151224	55.515 ug/l		97
54) cis-1,3-Dichloropropene	8.360	75	164267	53.656 ug/l		97
55) 1,1,2-Trichloroethane	9.147	97	103095	52.771 ug/l		98
56) Ethyl methacrylate	9.116	69	163278	57.469 ug/l		98
57) 1,3-Dichloropropane	9.305	76	175128	53.383 ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	391895	278.235 ug/l		100
59) 2-Hexanone	9.427	43	553155	302.247 ug/l		99
60) Dibromochloromethane	9.519	129	107971	55.427 ug/l		99
61) 1,2-Dibromoethane	9.604	107	105825	53.635 ug/l		97
64) Tetrachloroethene	9.269	164	85353	47.587 ug/l		96
65) Chlorobenzene	10.073	112	275873	51.238 ug/l		97
66) 1,1,1,2-Tetrachloroethane	10.159	131	95543	53.429 ug/l		99
67) Ethyl Benzene	10.189	91	494122	53.443 ug/l		100
68) m/p-Xylenes	10.299	106	365584	107.604 ug/l		99
69) o-Xylene	10.640	106	179313	52.289 ug/l		99
70) Styrene	10.653	104	300652	54.813 ug/l		100
71) Bromoform	10.799	173	65460	52.026 ug/l	#	96
73) Isopropylbenzene	10.957	105	463455	52.618 ug/l		99
74) N-amyl acetate	10.842	43	212270	59.395 ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.207	83	151715	53.439 ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	128289m	53.831 ug/l		
77) Bromobenzene	11.195	156	111248	51.994 ug/l		98
78) n-propylbenzene	11.305	91	527200	53.141 ug/l		100
79) 2-Chlorotoluene	11.360	91	327328	50.916 ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	389590	53.347 ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	43198	55.176 ug/l		98
82) 4-Chlorotoluene	11.451	91	376292	52.030 ug/l		99
83) tert-Butylbenzene	11.713	119	385674	53.037 ug/l		100
84) 1,2,4-Trimethylbenzene	11.750	105	392732	53.535 ug/l		98
85) sec-Butylbenzene	11.890	105	462731	52.250 ug/l		100
86) p-Isopropyltoluene	12.006	119	394724	53.119 ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	196937	50.880 ug/l		99
88) 1,4-Dichlorobenzene	12.037	146	196398	48.700 ug/l		99
89) n-Butylbenzene	12.329	91	336155	53.573 ug/l		99
90) Hexachloroethane	12.536	117	60971	51.076 ug/l		98
91) 1,2-Dichlorobenzene	12.335	146	201962	51.635 ug/l		100
92) 1,2-Dibromo-3-Chloropr...	12.939	75	32131	59.698 ug/l		90
93) 1,2,4-Trichlorobenzene	13.585	180	129812	56.469 ug/l		99
94) Hexachlorobutadiene	13.725	225	50956	53.233 ug/l		97
95) Naphthalene	13.774	128	450708	60.764 ug/l		99
96) 1,2,3-Trichlorobenzene	13.957	180	135540	57.677 ug/l		98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044613.D
Acq On : 07 Jan 2025 19:37
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jan 08 05:57:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 03:57:12 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

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

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

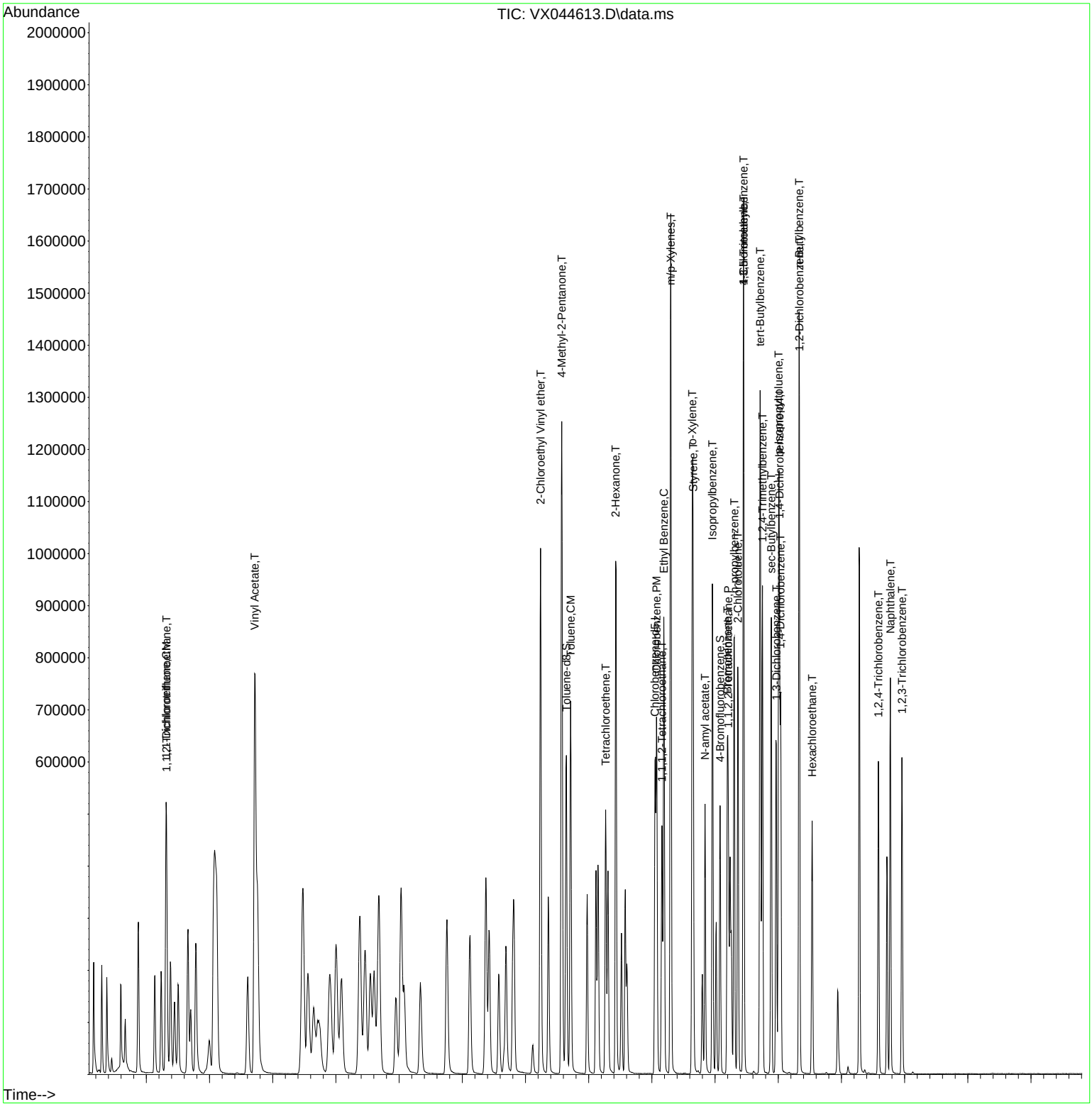
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044613.D
Acq On : 07 Jan 2025 19:37
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

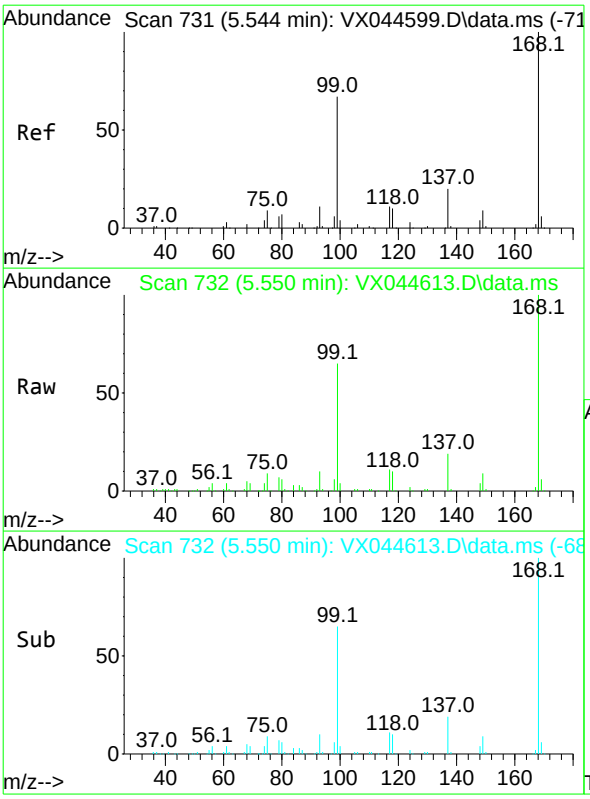
Quant Time: Jan 08 05:57:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 03:57:12 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

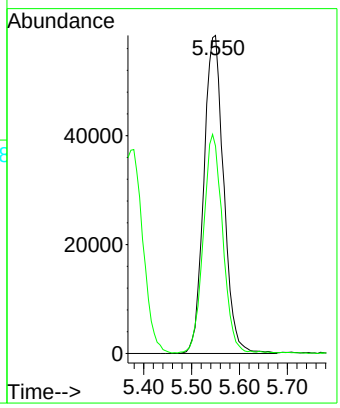




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 73
Delta R.T. 0.006 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion:168 Resp: 168032

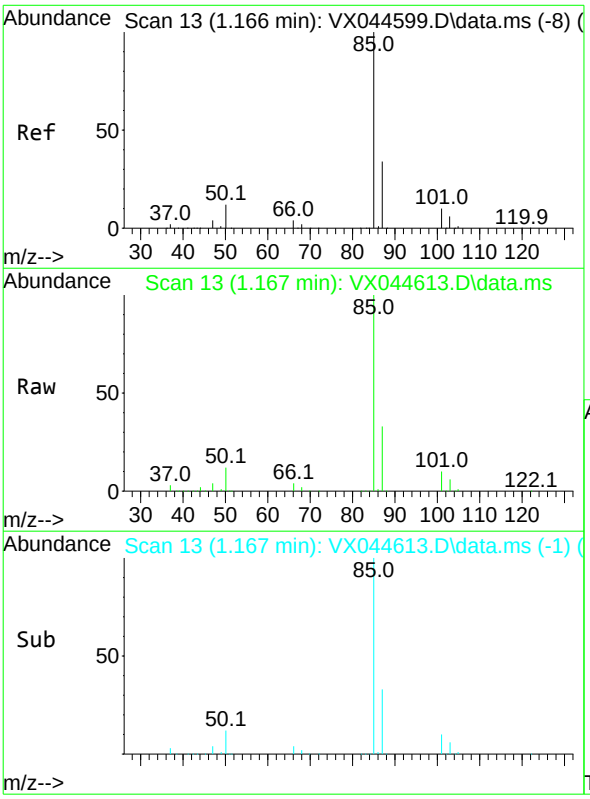
Ion	Ratio	Lower	Upper
168	100		
99	65.0	53.5	80.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

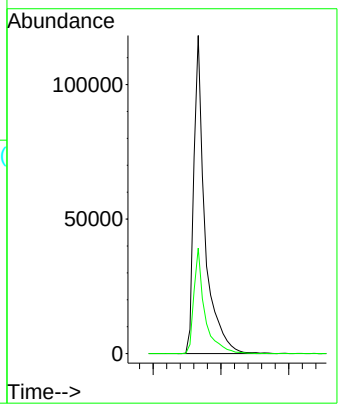
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

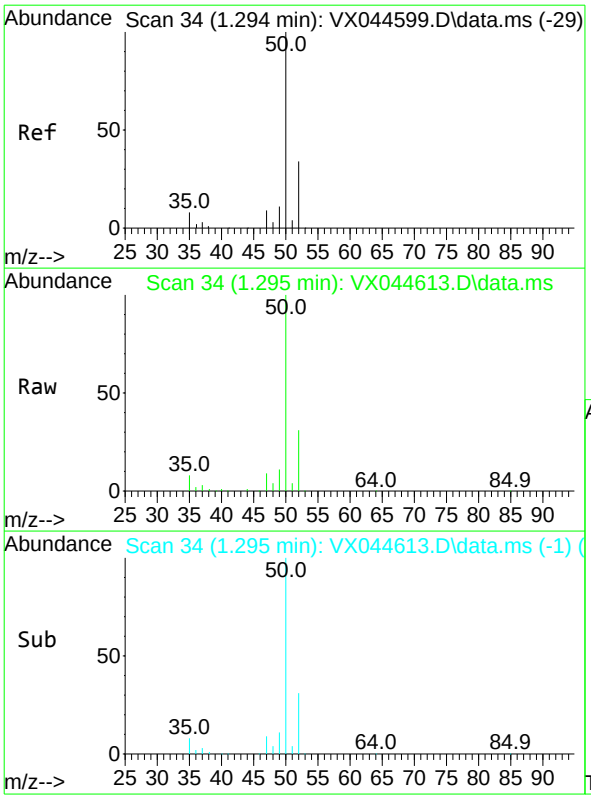


#2
Dichlorodifluoromethane
Concen: 55.337 ug/l
RT: 1.167 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 85 Resp: 134539

Ion	Ratio	Lower	Upper
85	100		
87	33.2	17.2	51.5

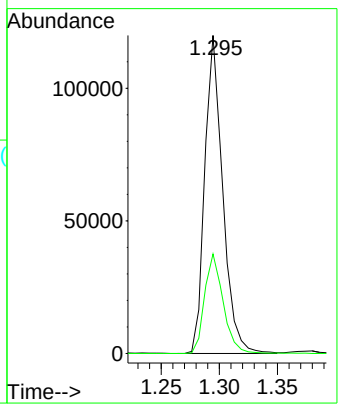




#3
Chloromethane
Concen: 53.178 ug/l
RT: 1.295 min Scan# 34
Delta R.T. 0.001 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 50 Resp: 128841

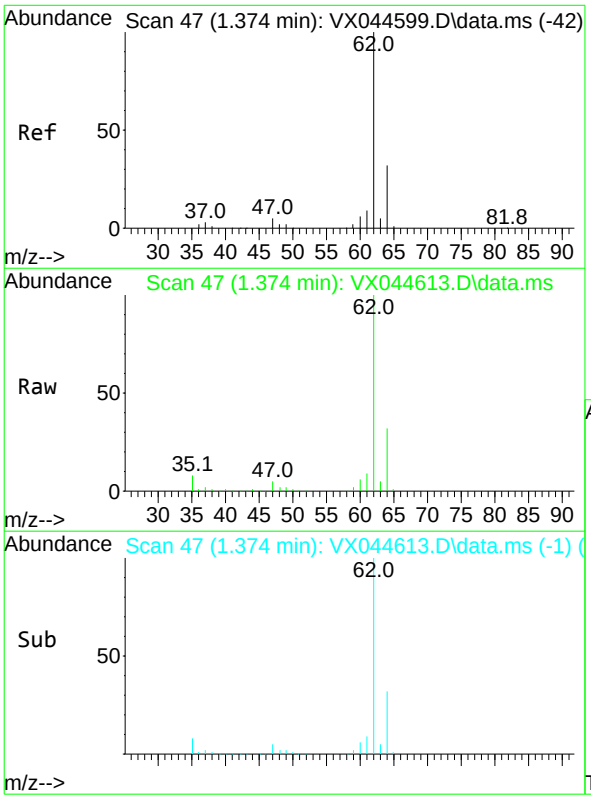
Ion	Ratio	Lower	Upper
50	100		
52	31.3	27.0	40.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

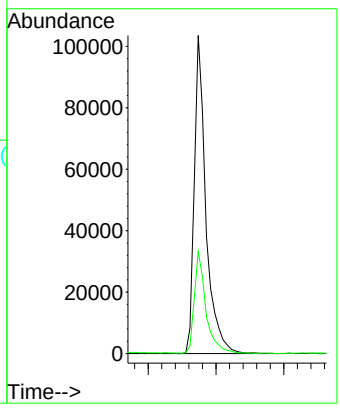
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

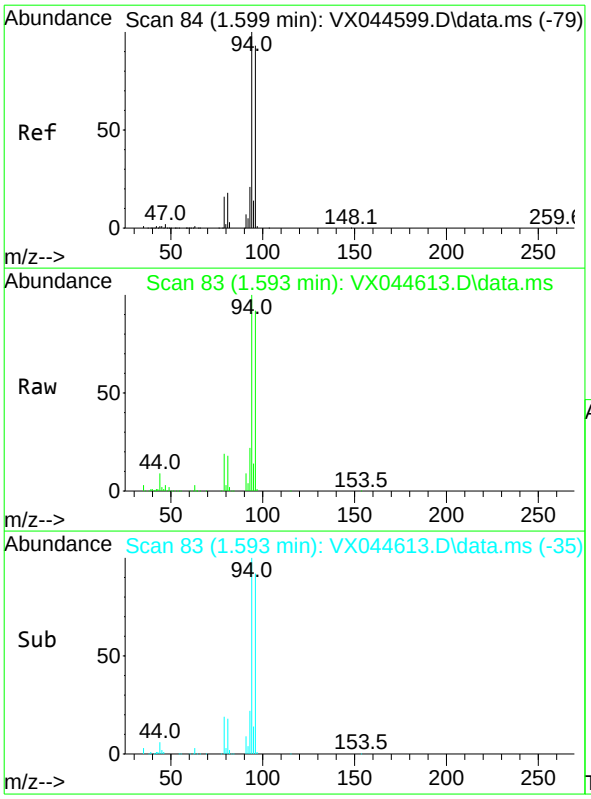


#4
Vinyl Chloride
Concen: 54.253 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 62 Resp: 123309

Ion	Ratio	Lower	Upper
62	100		
64	32.1	26.0	39.0

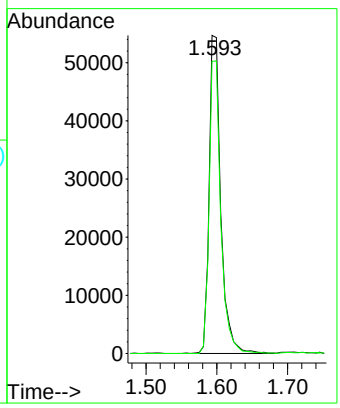




#5
Bromomethane
Concen: 53.125 ug/l
RT: 1.593 min Scan# 83
Delta R.T. -0.006 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 94 Resp: 62546

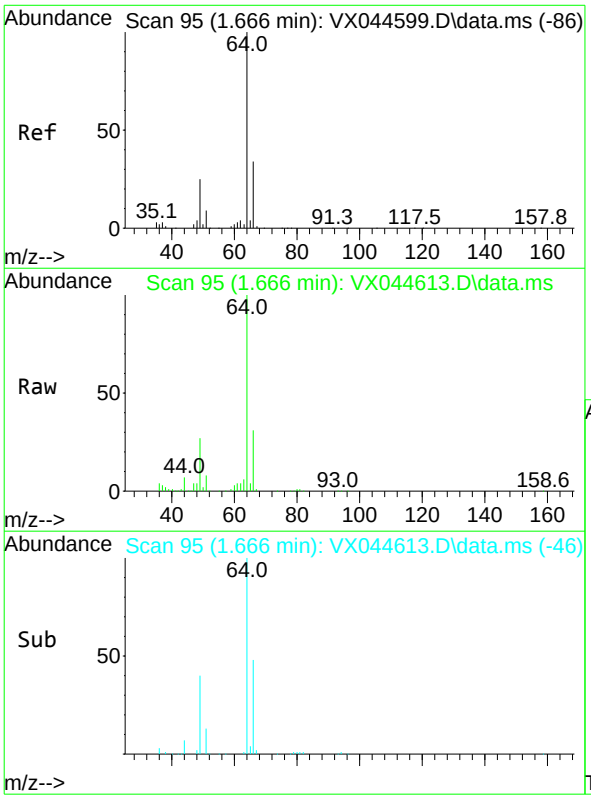
Ion	Ratio	Lower	Upper
94	100		
96	91.9	74.6	112.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

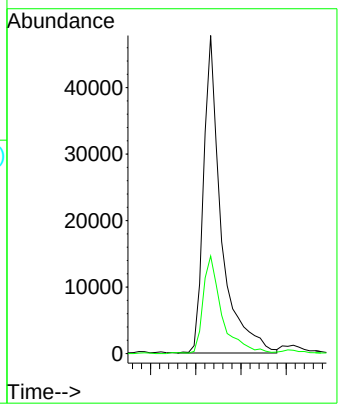
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

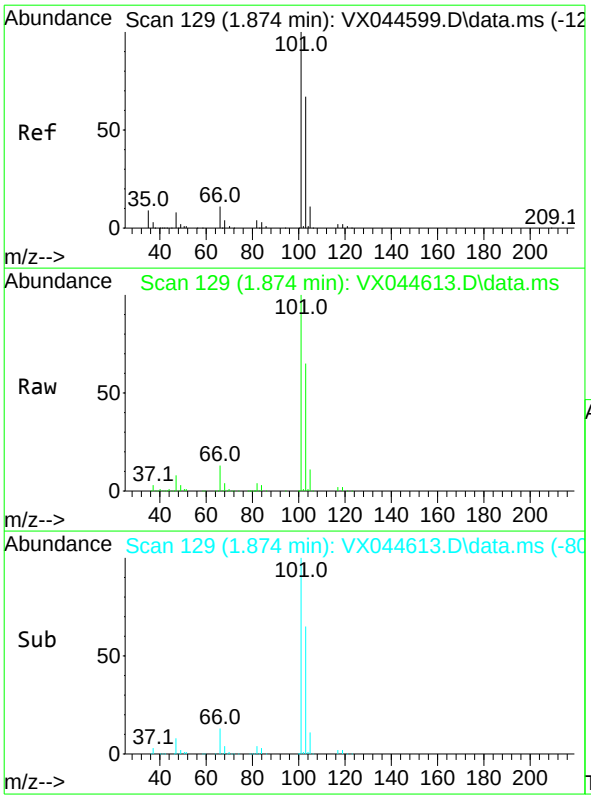


#6
Chloroethane
Concen: 49.799 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 64 Resp: 64752

Ion	Ratio	Lower	Upper
64	100		
66	30.5	27.3	40.9

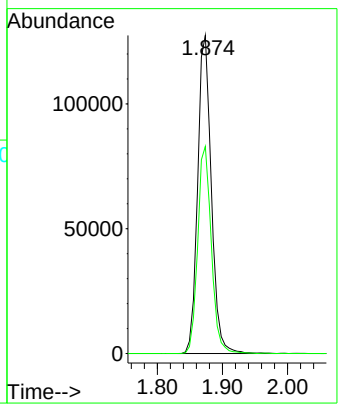




#7
Trichlorofluoromethane
Concen: 54.842 ug/l
RT: 1.874 min Scan# 12
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion:101 Resp: 185599

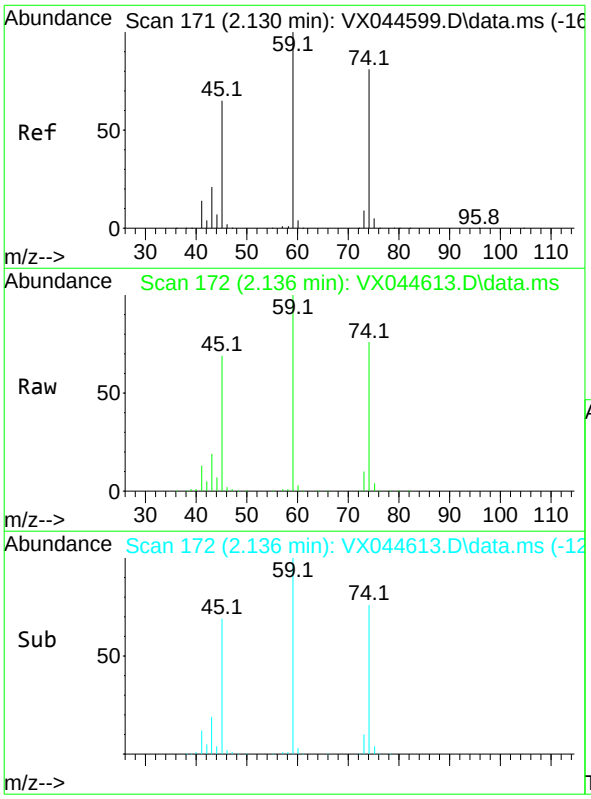
Ion	Ratio	Lower	Upper
101	100		
103	65.1	53.3	79.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

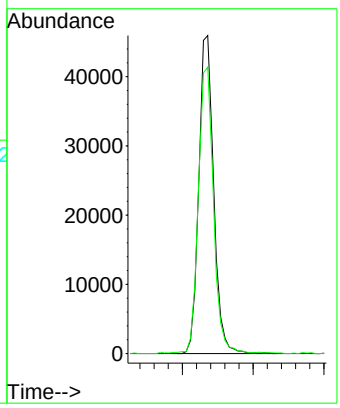
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

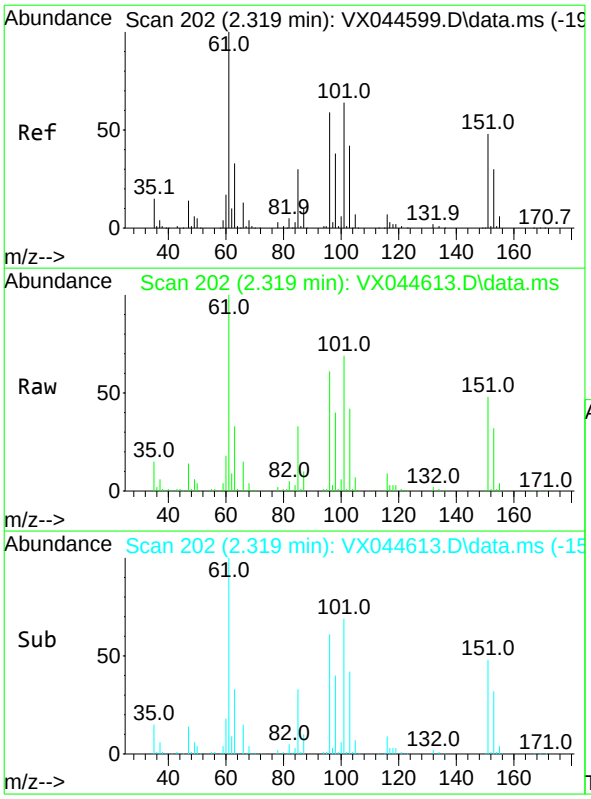


#8
Diethyl Ether
Concen: 56.153 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.006 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 74 Resp: 67148

Ion	Ratio	Lower	Upper
74	100		
45	92.4	41.7	125.1





#9
1,1,2-Trichlorotrifluoroethane
Concen: 51.646 ug/l
RT: 2.319 min Scan# 20
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

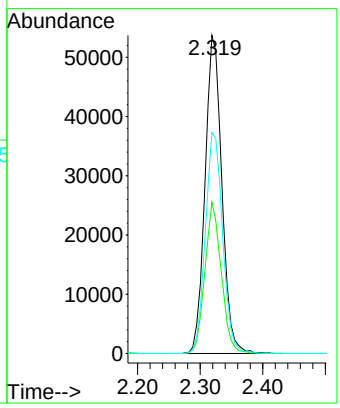
Tgt Ion:101 Resp: 100212

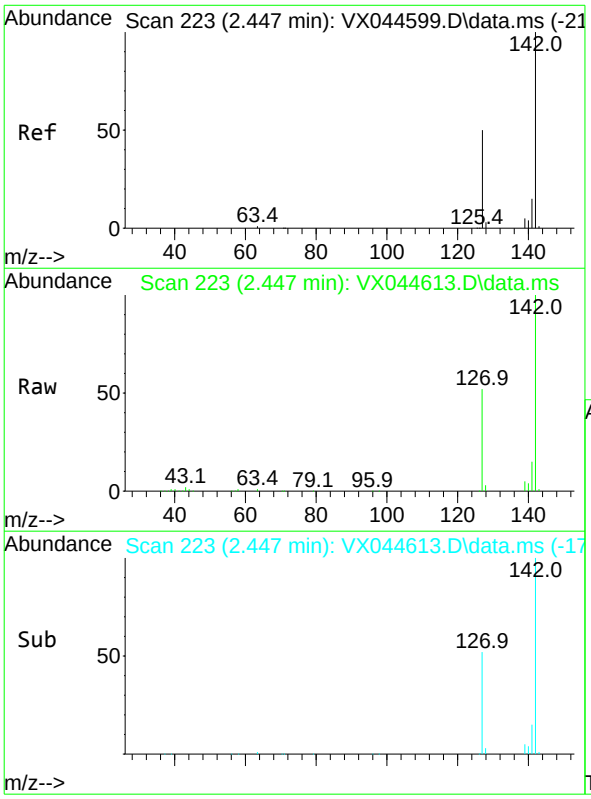
Ion	Ratio	Lower	Upper
101	100		
85	46.2	36.5	54.7
151	71.7	58.6	87.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

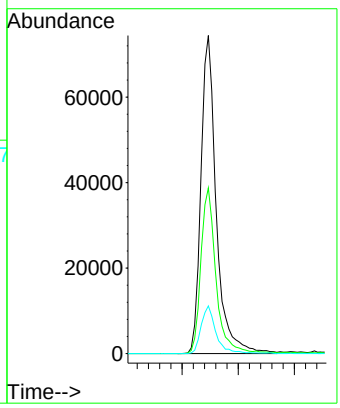


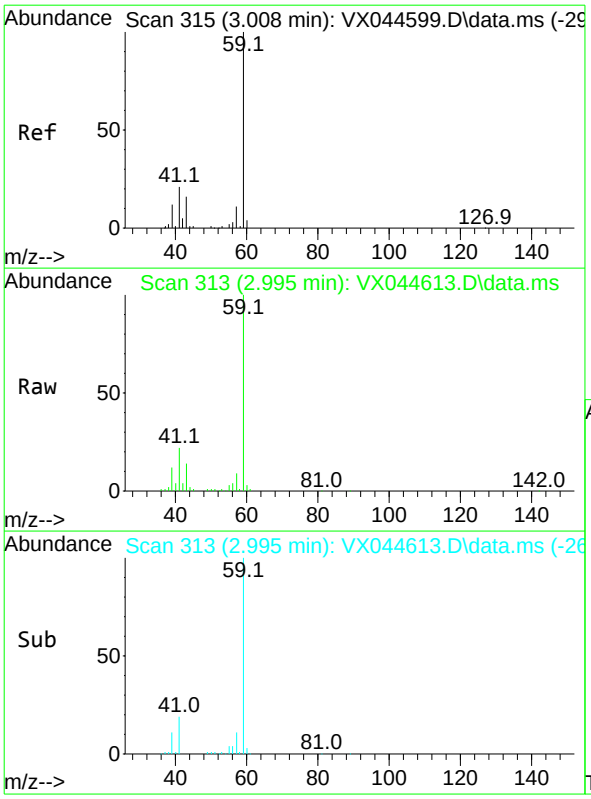


#10
Methyl Iodide
Concen: 52.097 ug/l
RT: 2.447 min Scan# 223
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion:142 Resp: 140962

Ion	Ratio	Lower	Upper
142	100		
127	51.5	41.9	62.9
141	14.7	11.8	17.6

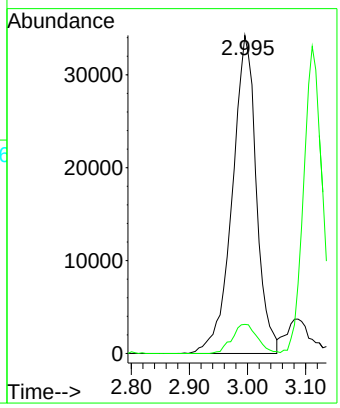




#11
Tert butyl alcohol
Concen: 294.641 ug/l
RT: 2.995 min Scan# 31
Delta R.T. -0.012 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 59 Resp: 98297

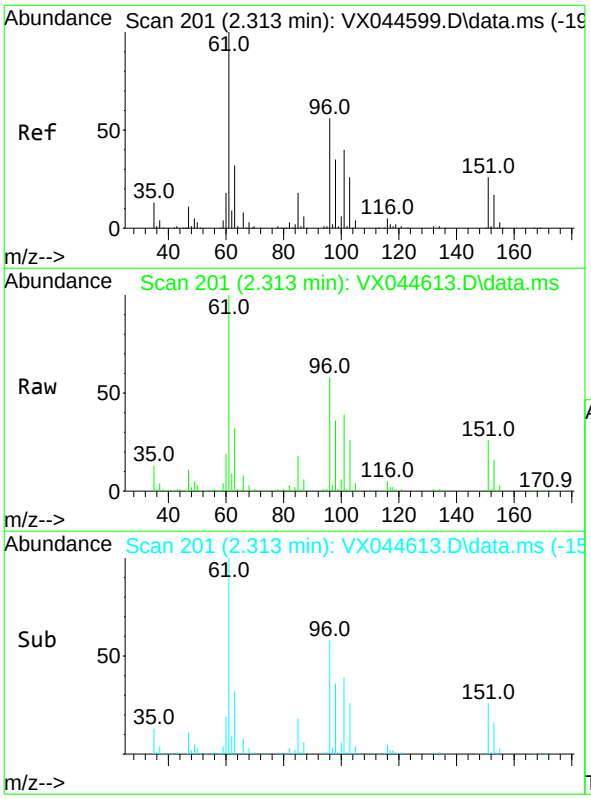
Ion	Ratio	Lower	Upper
59	100		
57	9.7	8.6	12.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

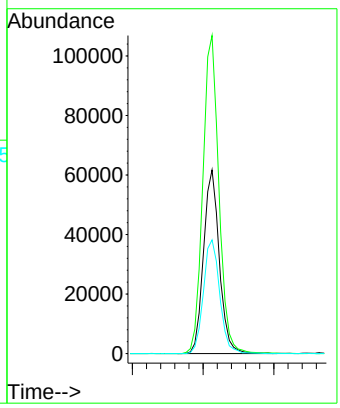
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

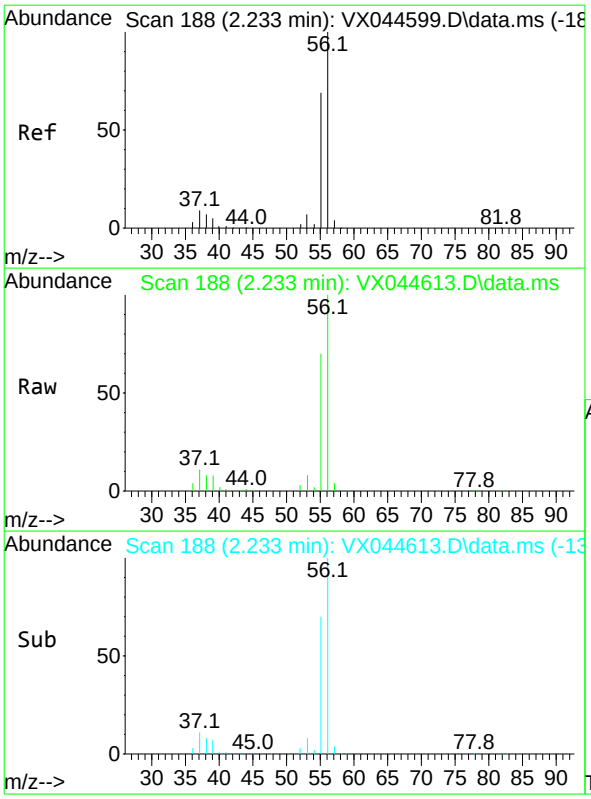


#12
1,1-Dichloroethene
Concen: 50.866 ug/l
RT: 2.313 min Scan# 201
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 96 Resp: 95617

Ion	Ratio	Lower	Upper
96	100		
61	173.1	143.3	214.9
98	61.9	50.6	76.0

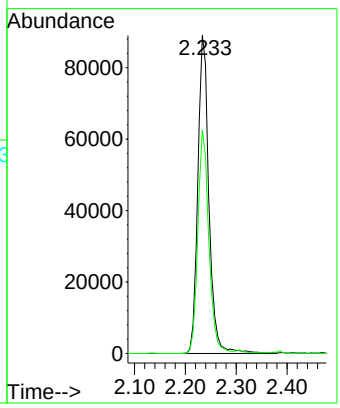




#13
Acrolein
Concen: 306.047 ug/l
RT: 2.233 min Scan# 18
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 56 Resp: 134997

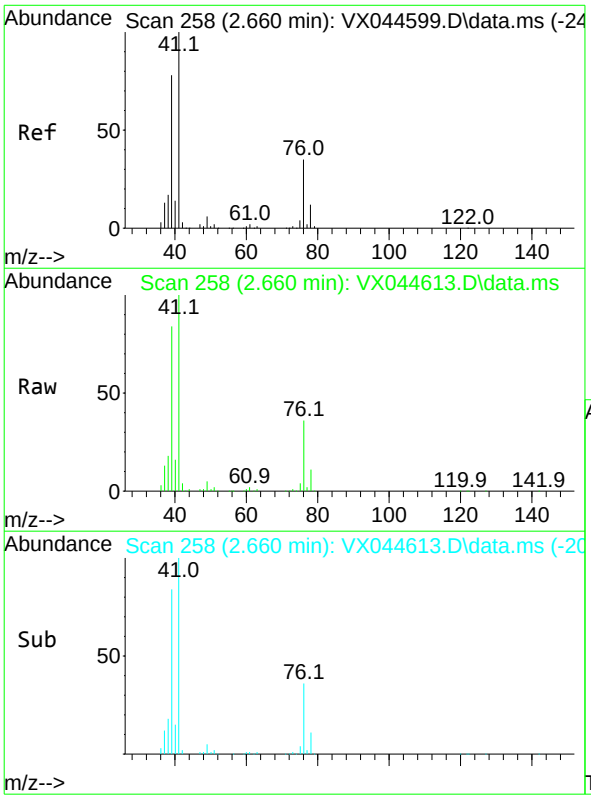
Ion	Ratio	Lower	Upper
56	100		
55	69.6	55.8	83.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

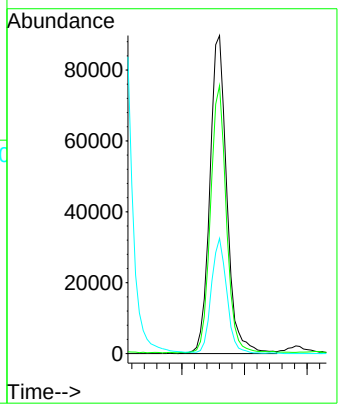
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

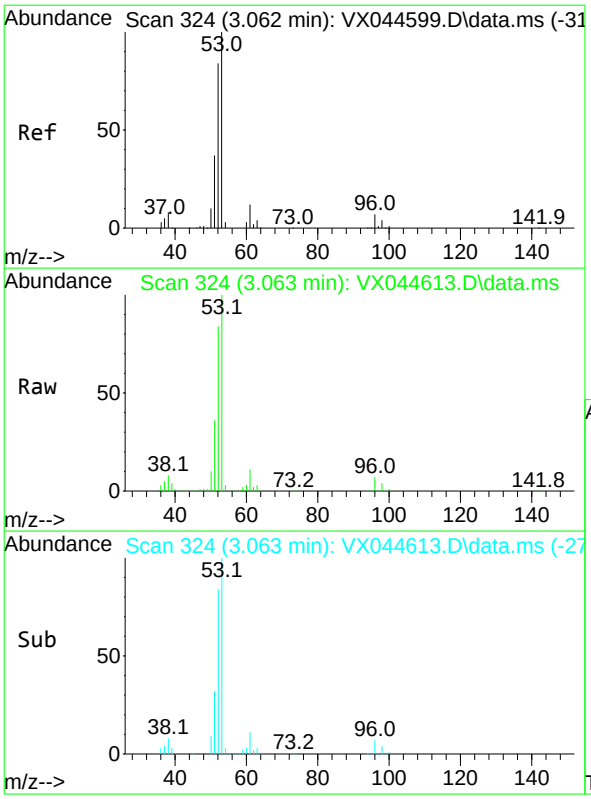


#14
Allyl chloride
Concen: 54.415 ug/l
RT: 2.660 min Scan# 258
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 41 Resp: 170117

Ion	Ratio	Lower	Upper
41	100		
39	78.2	60.2	90.2
76	32.5	25.9	38.9

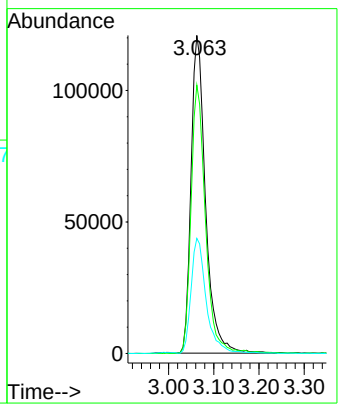




#15
Acrylonitrile
Concen: 280.157 ug/l
RT: 3.063 min Scan# 32
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 53 Resp: 269181

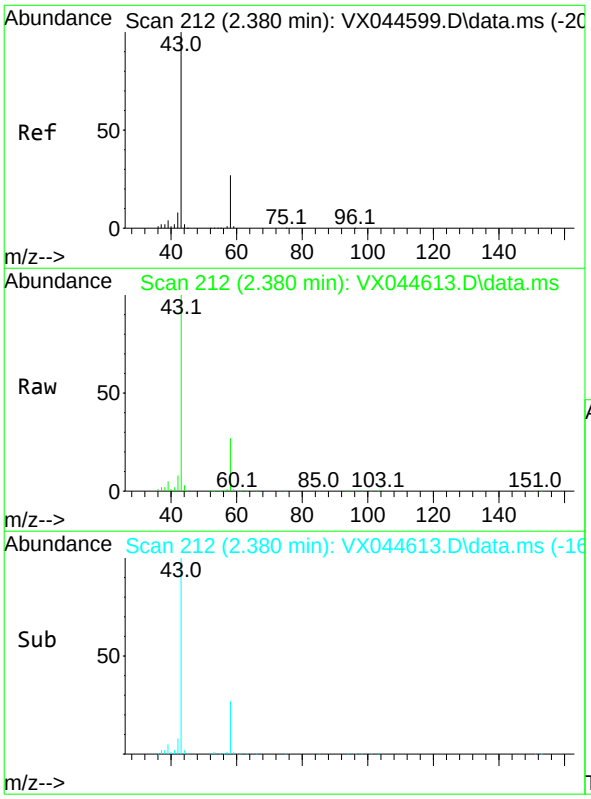
Ion	Ratio	Lower	Upper
53	100		
52	83.9	67.0	100.6
51	37.7	29.4	44.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

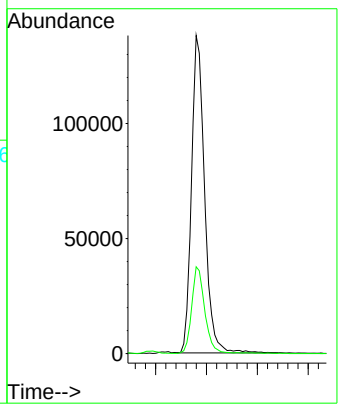
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

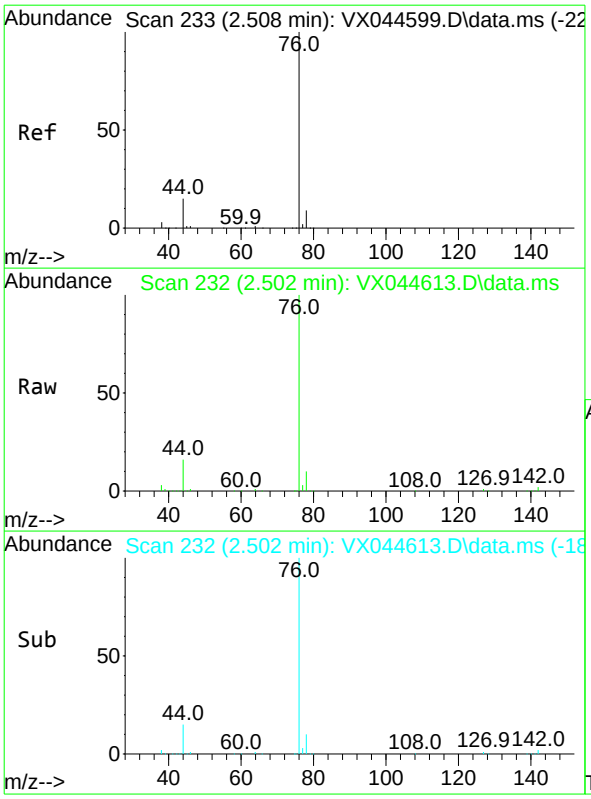


#16
Acetone
Concen: 288.715 ug/l
RT: 2.380 min Scan# 212
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 43 Resp: 246540

Ion	Ratio	Lower	Upper
43	100		
58	27.3	22.0	33.0





#17
Carbon Disulfide
Concen: 53.692 ug/l
RT: 2.502 min Scan# 23
Delta R.T. -0.006 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

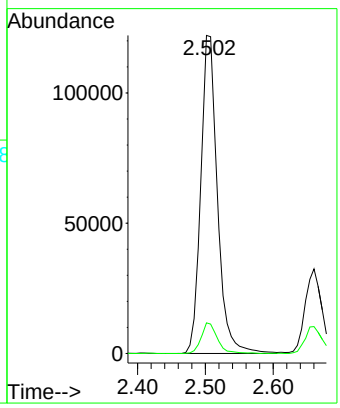
Tgt Ion: 76 Resp: 208698

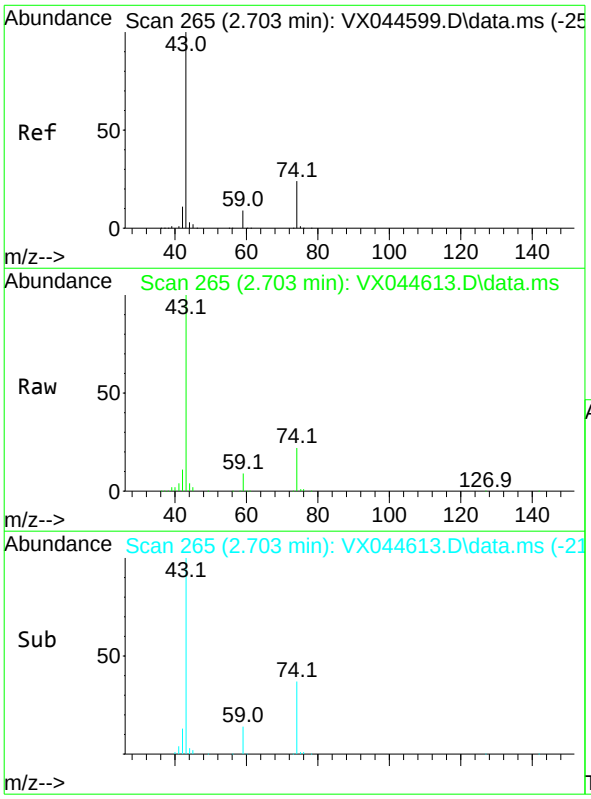
Ion	Ratio	Lower	Upper
76	100		
78	9.6	7.1	10.7

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

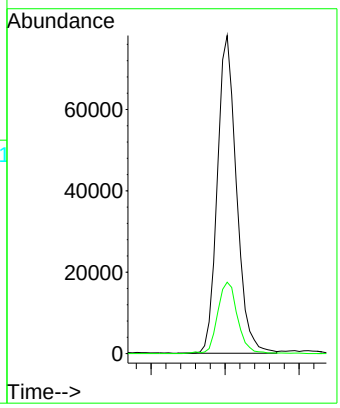


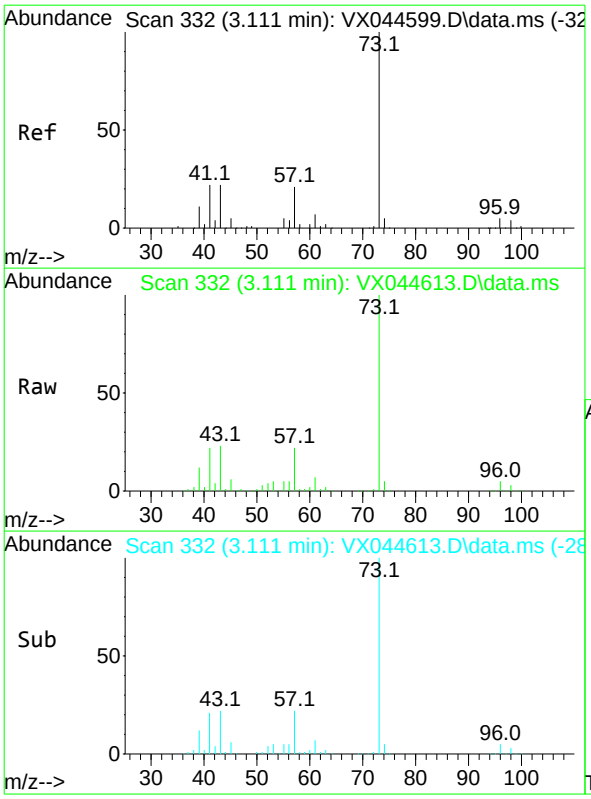


#18
Methyl Acetate
Concen: 55.654 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 43 Resp: 140271

Ion	Ratio	Lower	Upper
43	100		
74	23.5	19.3	28.9

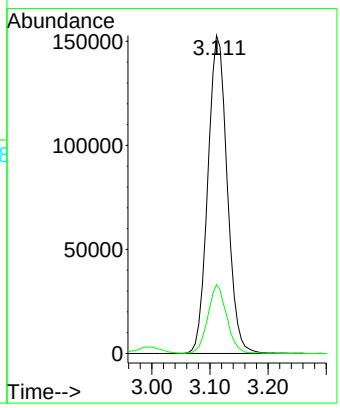




#19
Methyl tert-butyl Ether
Concen: 54.815 ug/l
RT: 3.111 min Scan# 33
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 73 Resp: 353121

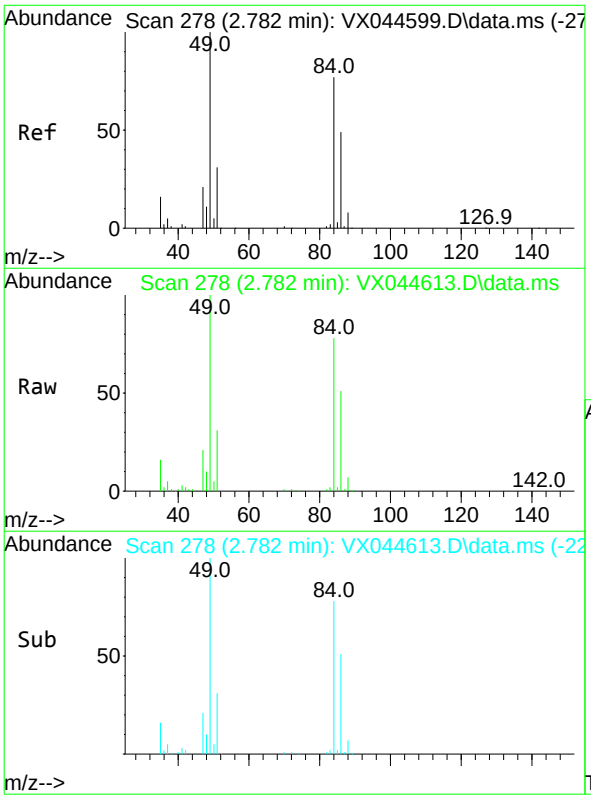
Ion	Ratio	Lower	Upper
73	100		
57	21.5	17.0	25.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

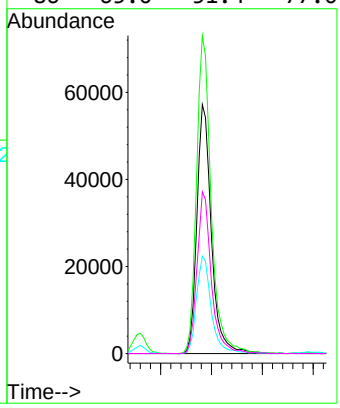
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

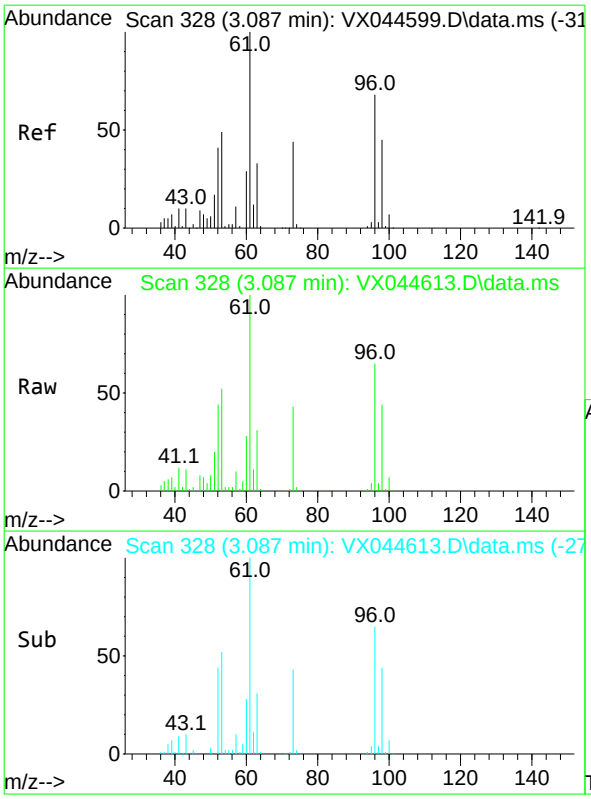


#20
Methylene Chloride
Concen: 51.920 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 84 Resp: 113109

Ion	Ratio	Lower	Upper
84	100		
49	127.7	104.4	156.6
51	39.1	32.0	48.0
86	65.0	51.4	77.0

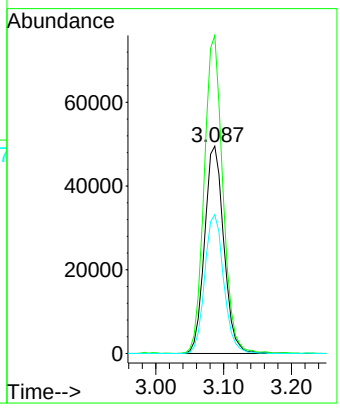




#21
trans-1,2-Dichloroethene
Concen: 50.624 ug/l
RT: 3.087 min Scan# 32
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 96 Resp: 97667

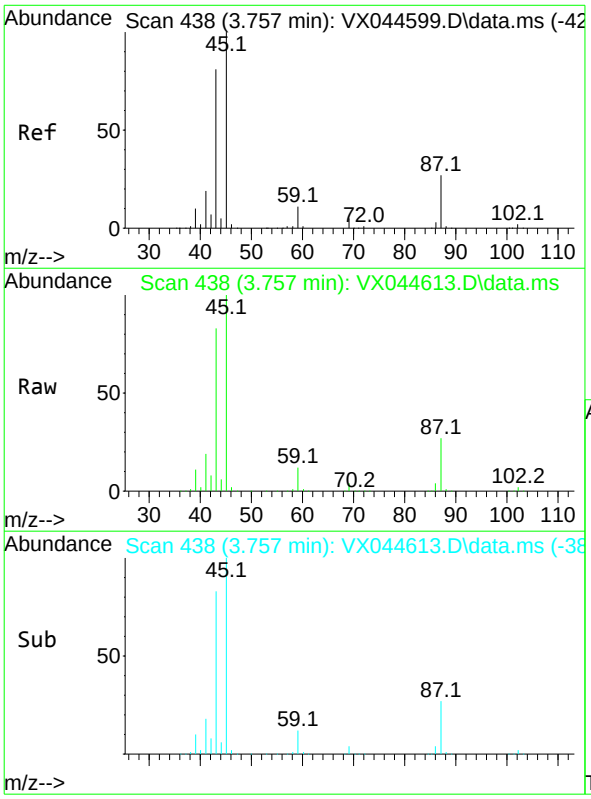
Ion	Ratio	Lower	Upper
96	100		
61	153.4	118.5	177.7
98	67.0	53.4	80.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

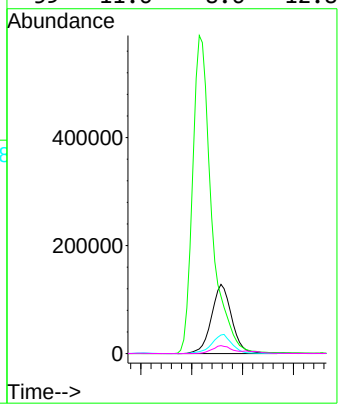
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

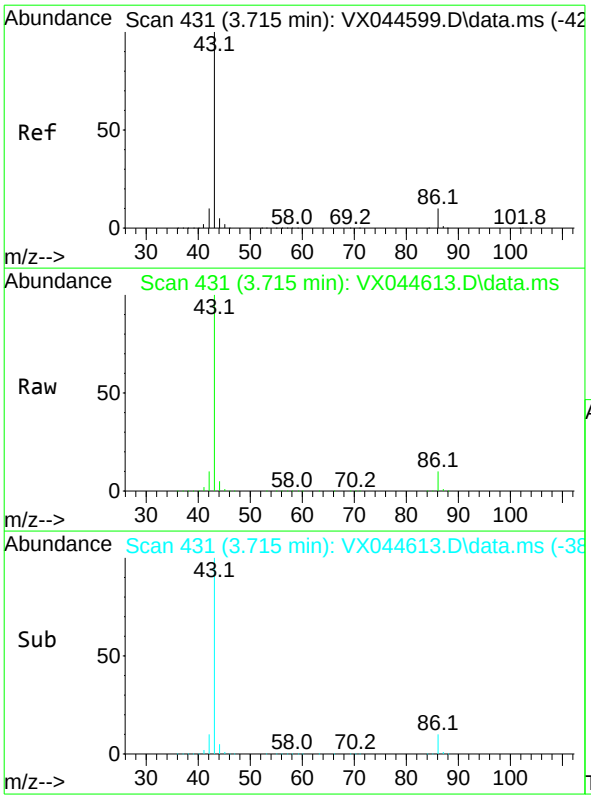


#22
Diisopropyl ether
Concen: 55.179 ug/l
RT: 3.757 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 45 Resp: 354623

Ion	Ratio	Lower	Upper
45	100		
43	82.1	64.6	97.0
87	26.8	21.8	32.8
59	11.6	8.6	12.8

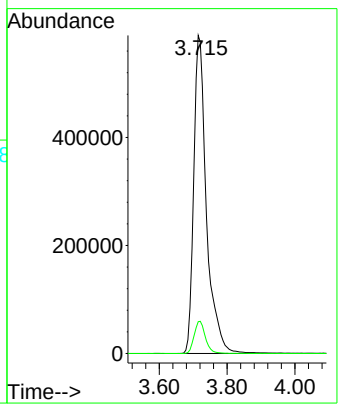




#23
Vinyl Acetate
Concen: 295.397 ug/l
RT: 3.715 min Scan# 43
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 43 Resp: 1535167

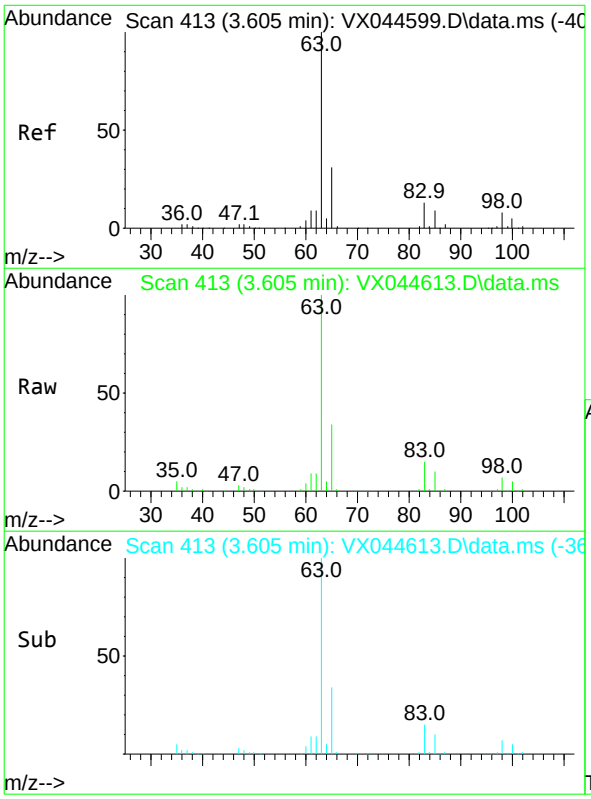
Ion	Ratio	Lower	Upper
43	100		
86	10.0	8.1	12.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

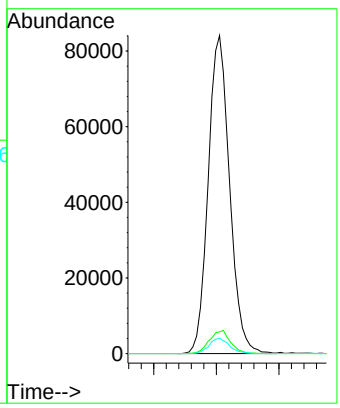
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

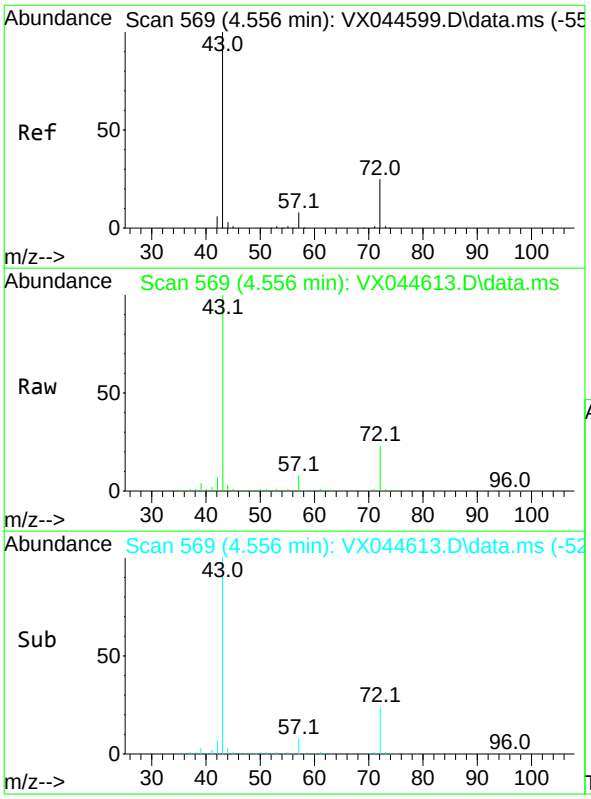


#24
1,1-Dichloroethane
Concen: 53.250 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 63 Resp: 199407

Ion	Ratio	Lower	Upper
63	100		
98	6.8	3.8	11.4
100	4.8	2.4	7.2

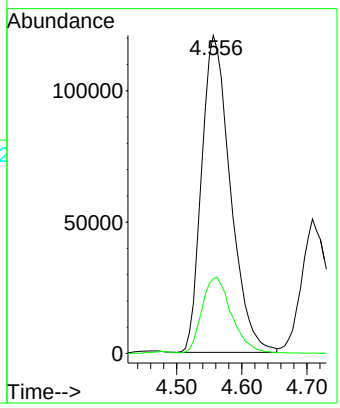




#25
2-Butanone
Concen: 300.736 ug/l
RT: 4.556 min Scan# 56
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 43 Resp: 370671

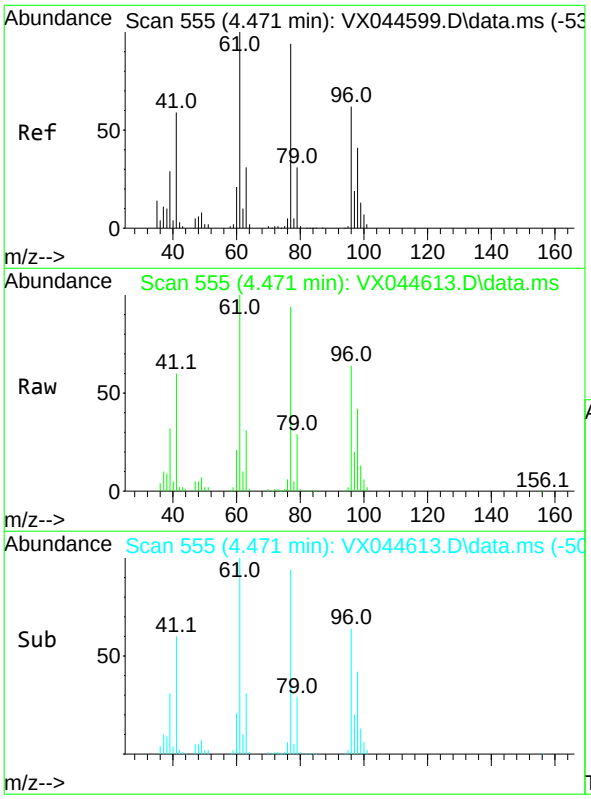
Ion	Ratio	Lower	Upper
43	100		
72	23.3	20.2	30.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

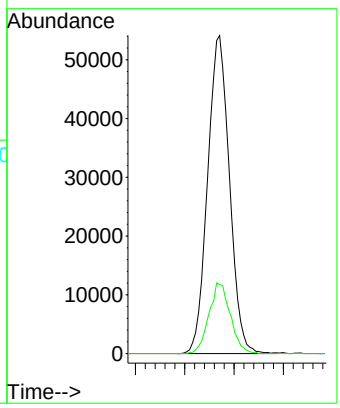
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

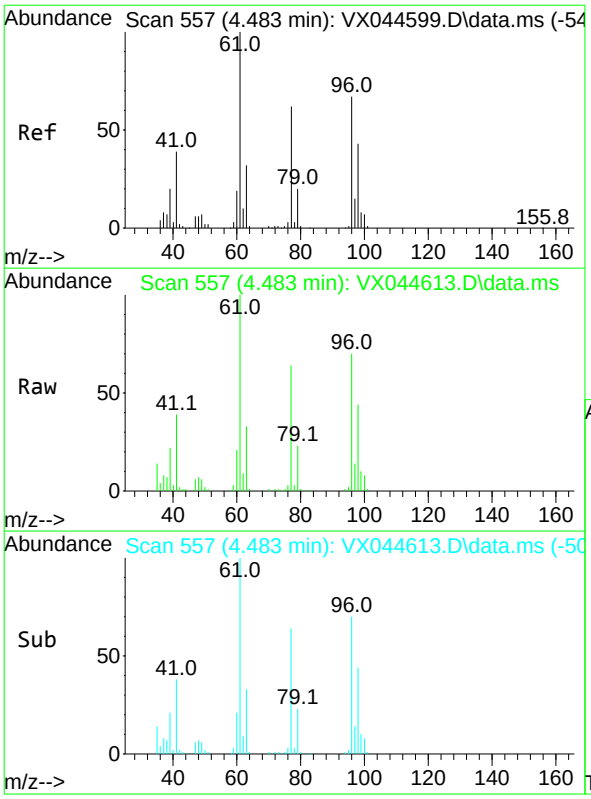


#26
2,2-Dichloropropane
Concen: 51.490 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 77 Resp: 166708

Ion	Ratio	Lower	Upper
77	100		
97	21.7	10.7	32.1

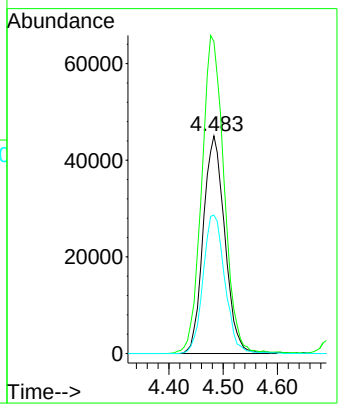




#27
cis-1,2-Dichloroethene
Concen: 52.916 ug/l
RT: 4.483 min Scan# 55
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 96 Resp: 124483

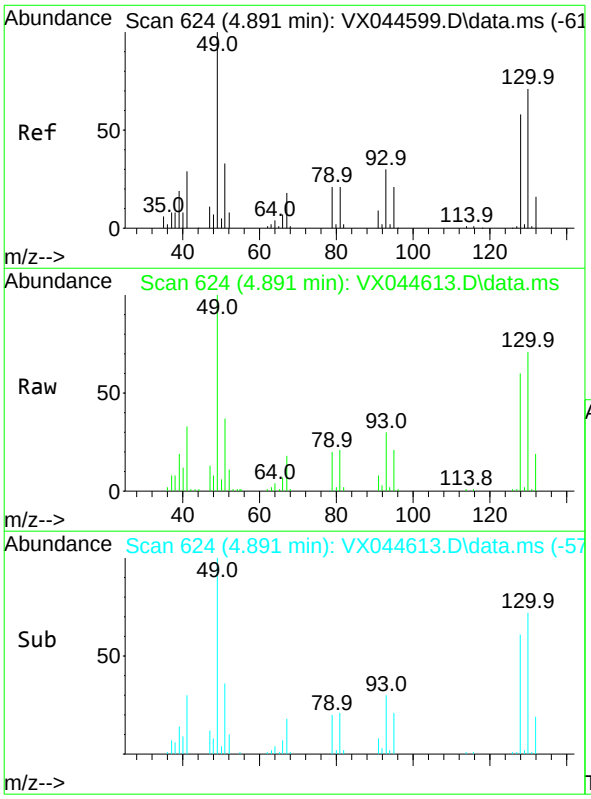
Ion	Ratio	Lower	Upper
96	100		
61	151.5	0.0	302.8
98	64.4	0.0	130.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

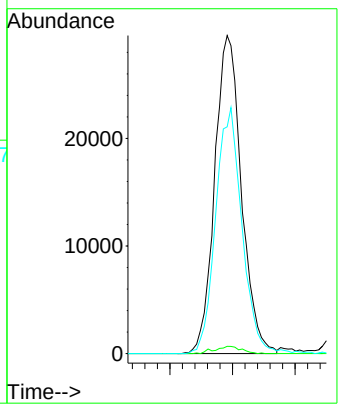
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

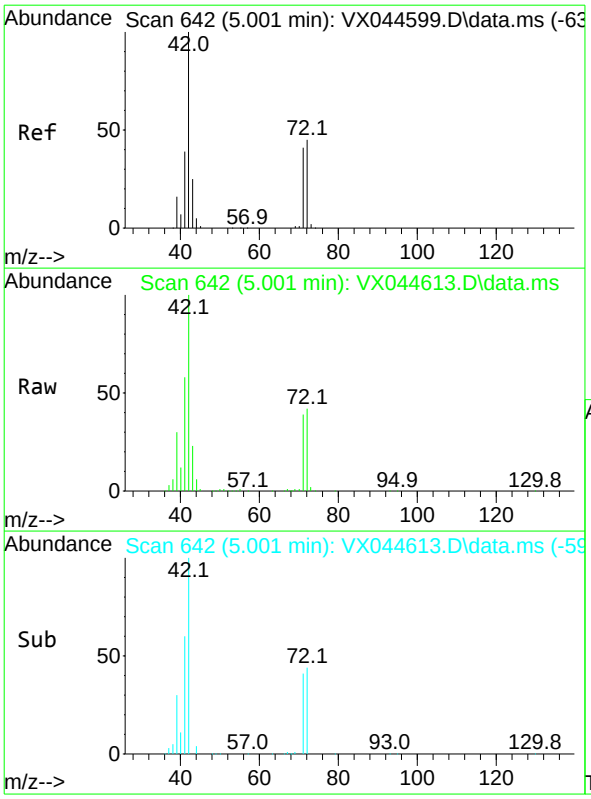


#28
Bromochloromethane
Concen: 50.249 ug/l
RT: 4.891 min Scan# 624
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 49 Resp: 87592

Ion	Ratio	Lower	Upper
49	100		
129	2.3	0.0	4.2
130	76.0	58.8	88.2

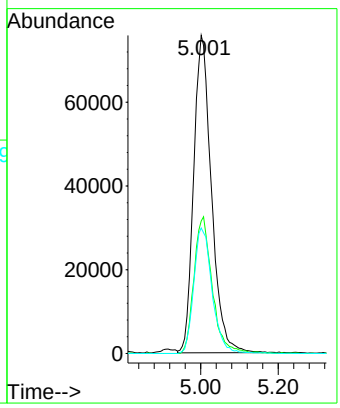




#29
Tetrahydrofuran
Concen: 286.076 ug/l
RT: 5.001 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 42 Resp: 241460

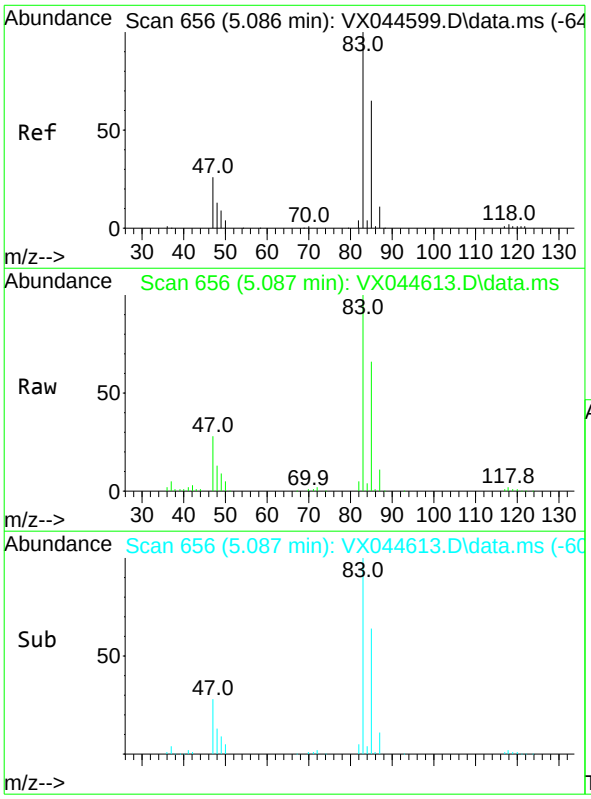
Ion	Ratio	Lower	Upper
42	100		
72	44.0	36.1	54.1
71	40.6	33.0	49.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

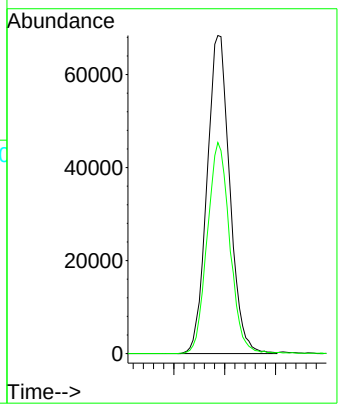
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

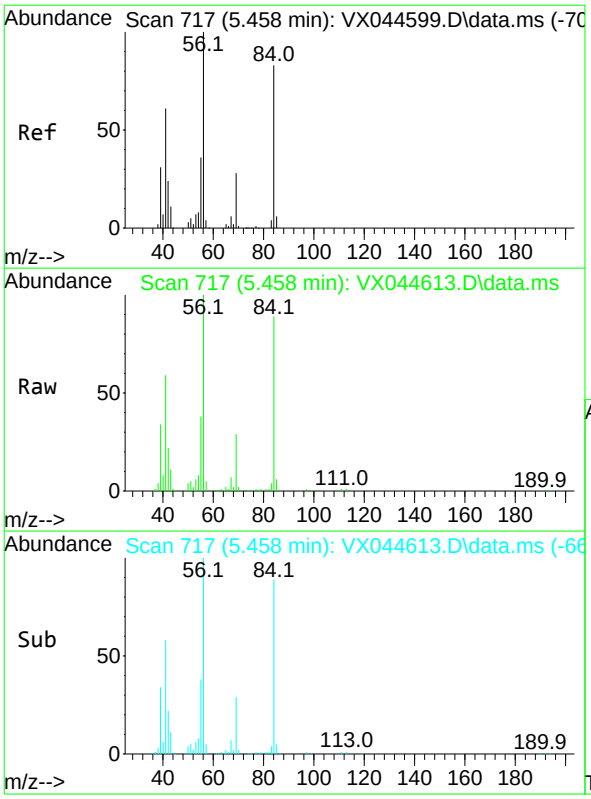


#30
Chloroform
Concen: 52.559 ug/l
RT: 5.087 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 83 Resp: 212184

Ion	Ratio	Lower	Upper
83	100		
85	66.4	52.3	78.5

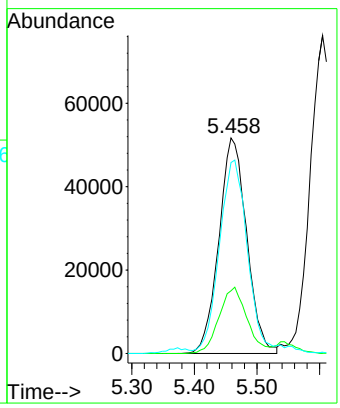




#31
Cyclohexane
Concen: 51.894 ug/l
RT: 5.458 min Scan# 71
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 56 Resp: 159553

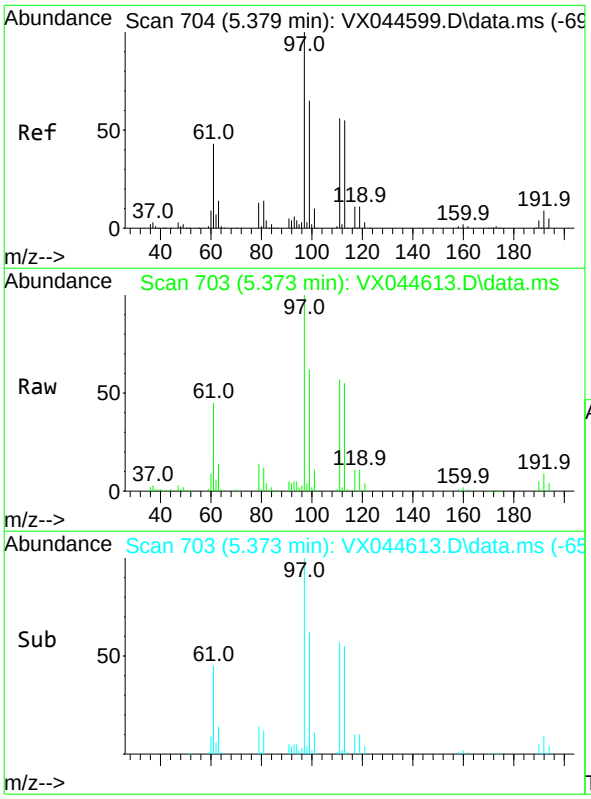
Ion	Ratio	Lower	Upper
56	100		
69	29.1	22.2	33.4
84	85.9	66.6	100.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

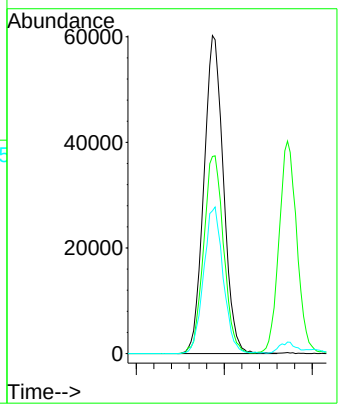
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

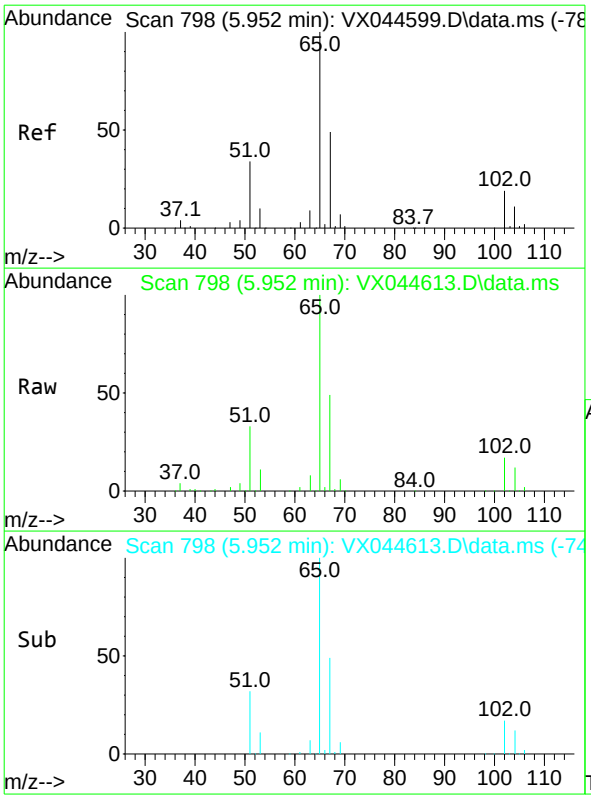


#32
1,1,1-Trichloroethane
Concen: 54.744 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.006 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 97 Resp: 185991

Ion	Ratio	Lower	Upper
97	100		
99	63.5	52.1	78.1
61	46.3	36.8	55.2

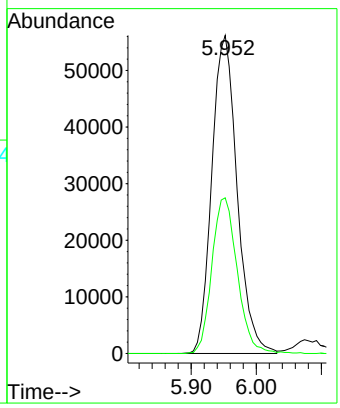




#33
1,2-Dichloroethane-d4
Concen: 55.942 ug/l
RT: 5.952 min Scan# 79
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 65 Resp: 151564

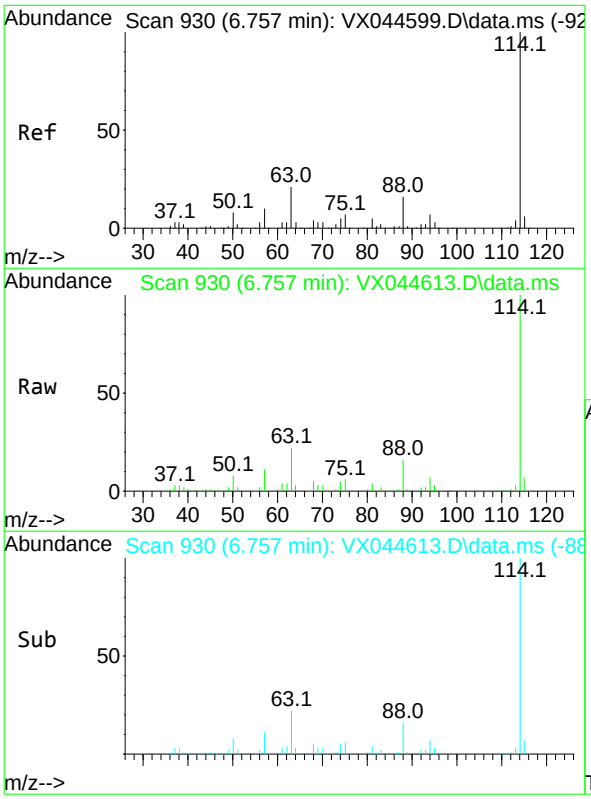
Ion	Ratio	Lower	Upper
65	100		
67	49.2	0.0	99.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

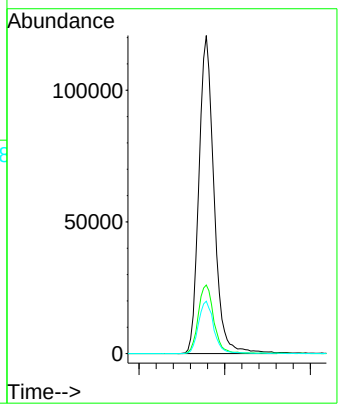
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

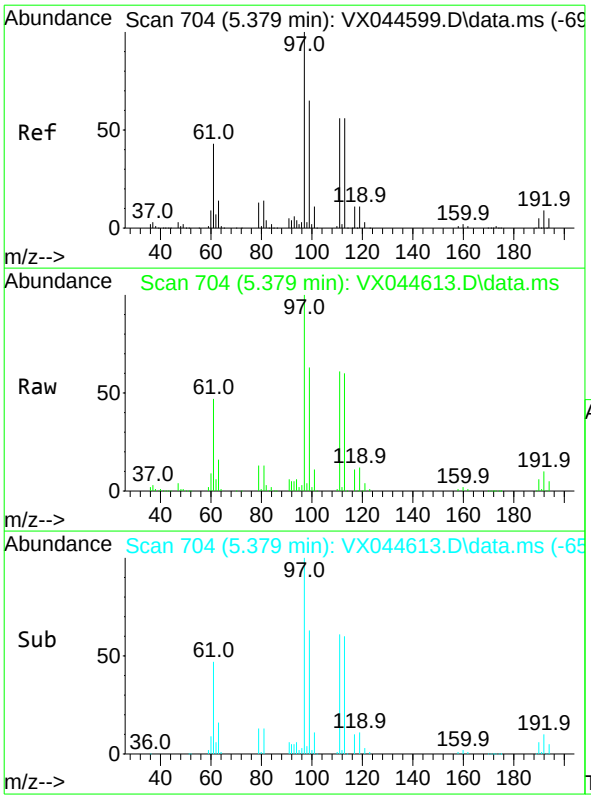


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion:114 Resp: 295835

Ion	Ratio	Lower	Upper
114	100		
63	21.6	0.0	42.6
88	16.5	0.0	32.6

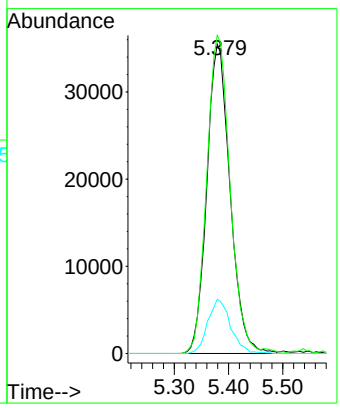




#35
Dibromofluoromethane
Concen: 52.065 ug/l
RT: 5.379 min Scan# 70
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion:113 Resp: 105618

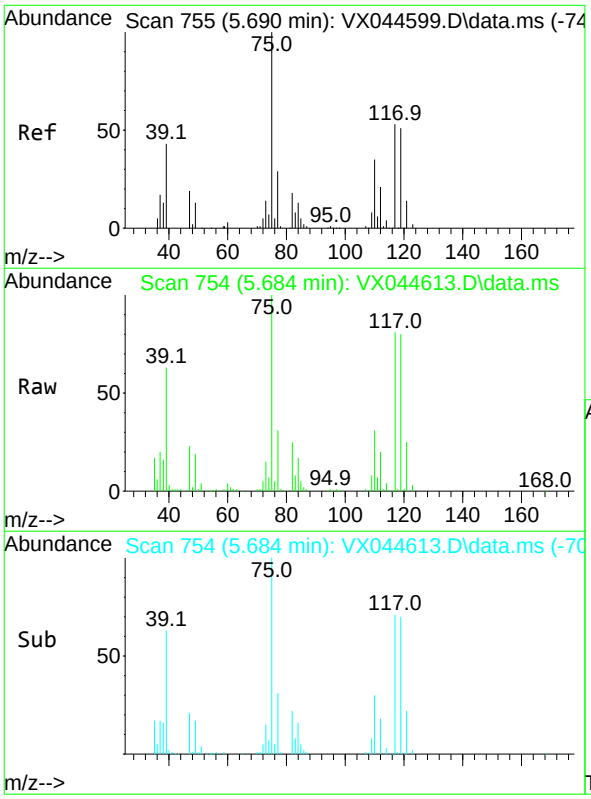
Ion	Ratio	Lower	Upper
113	100		
111	103.0	83.3	124.9
192	17.2	14.3	21.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

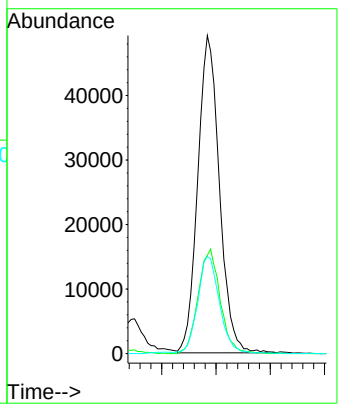
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

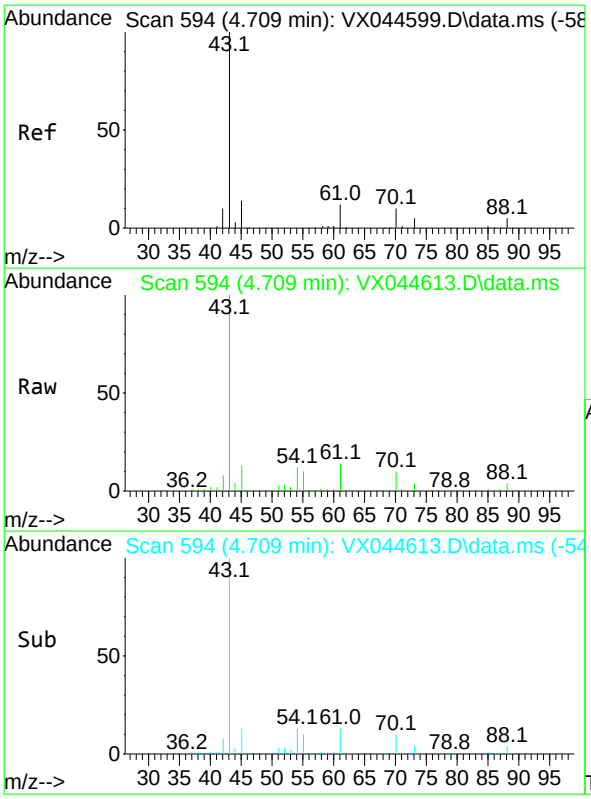


#36
1,1-Dichloropropene
Concen: 52.027 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 75 Resp: 136474

Ion	Ratio	Lower	Upper
75	100		
110	33.4	17.3	51.9
77	30.6	24.7	37.1

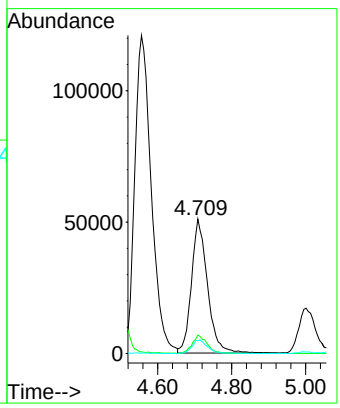




#37
Ethyl Acetate
Concen: 57.053 ug/l
RT: 4.709 min Scan# 59
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 43 Resp: 153095

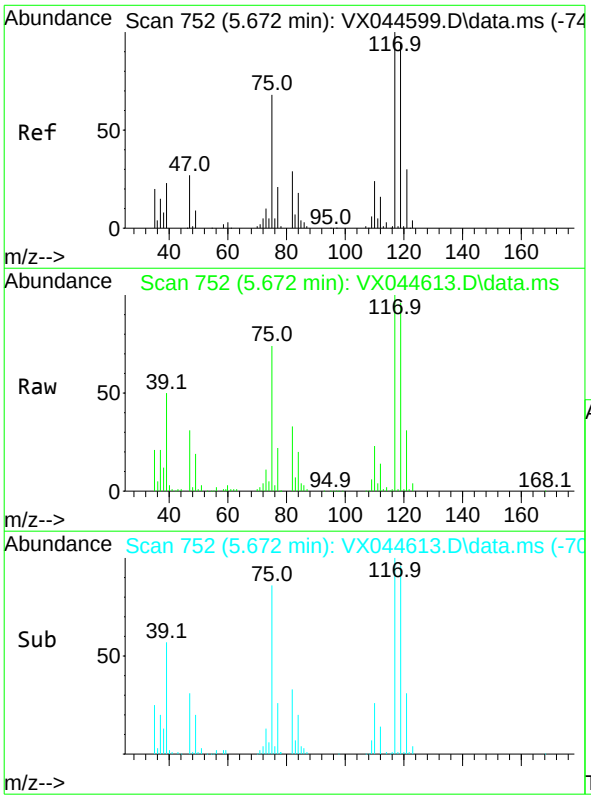
Ion	Ratio	Lower	Upper
43	100		
61	12.8	9.9	14.9
70	9.8	8.0	12.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

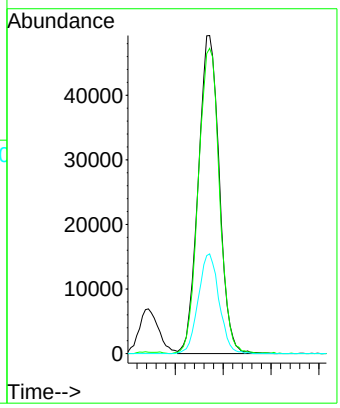
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

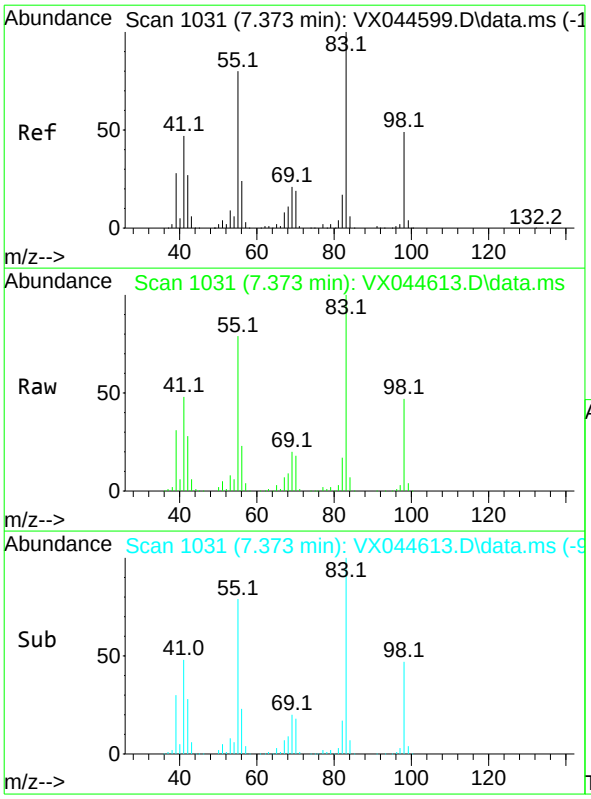


#38
Carbon Tetrachloride
Concen: 51.595 ug/l
RT: 5.672 min Scan# 752
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion:117 Resp: 150161

Ion	Ratio	Lower	Upper
117	100		
119	96.0	74.5	111.7
121	31.3	24.1	36.1





#39
Methylcyclohexane
Concen: 49.669 ug/l
RT: 7.373 min Scan# 10
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

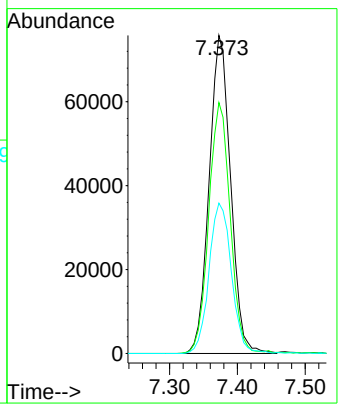
Tgt Ion: 83 Resp: 166246

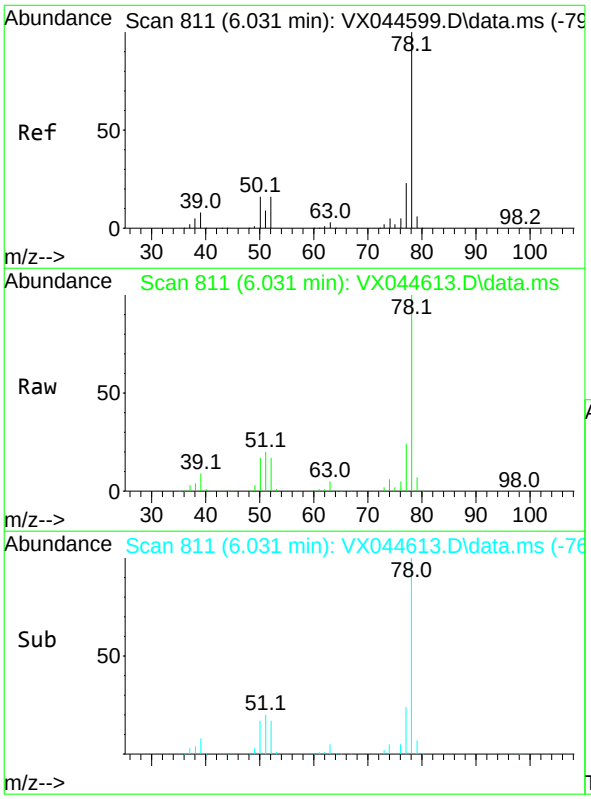
Ion	Ratio	Lower	Upper
83	100		
55	78.9	64.1	96.1
98	47.3	38.9	58.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

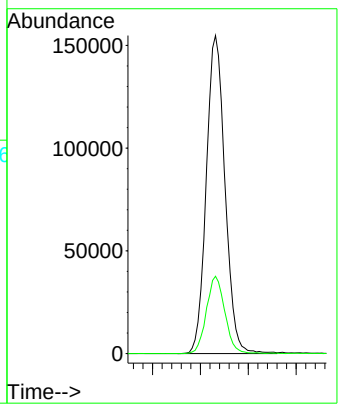


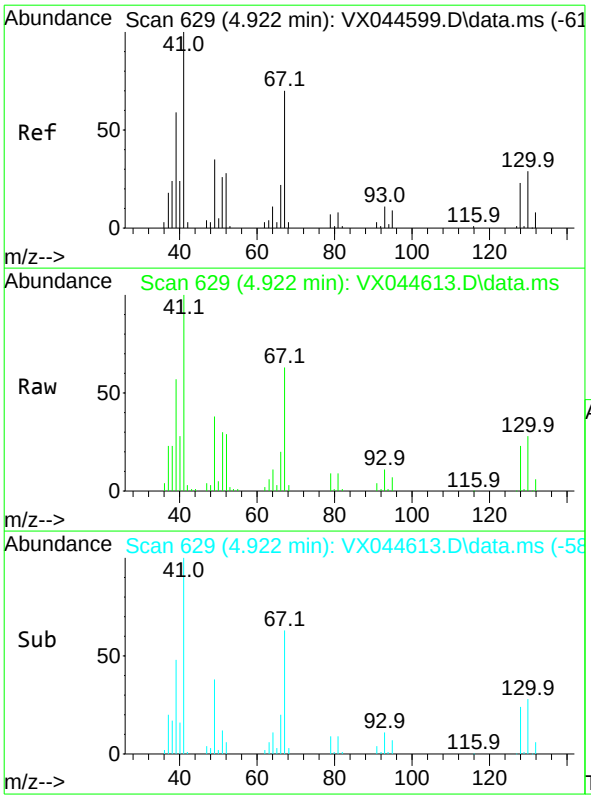


#40
Benzene
Concen: 50.785 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 78 Resp: 419445

Ion	Ratio	Lower	Upper
78	100		
77	24.3	18.8	28.2

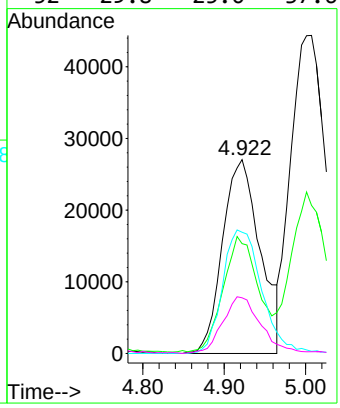




#41
Methacrylonitrile
Concen: 60.464 ug/l
RT: 4.922 min Scan# 62
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 41 Resp: 87090

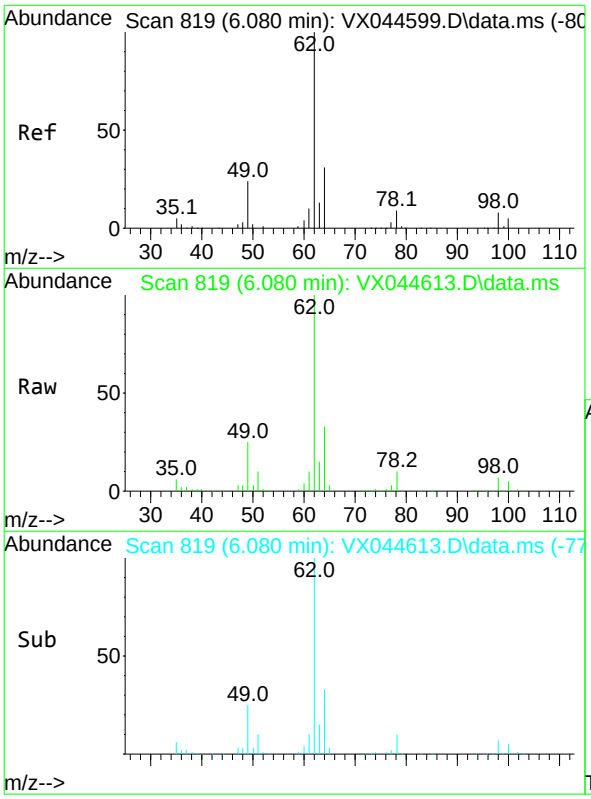
Ion	Ratio	Lower	Upper
41	100		
39	55.5	47.0	70.4
67	66.2	57.4	86.2
52	29.8	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

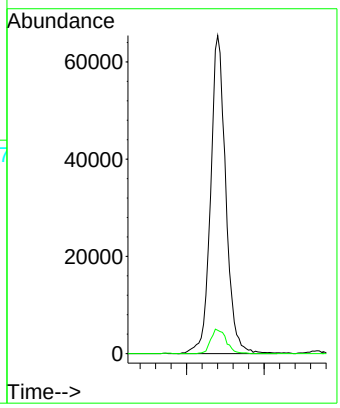
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

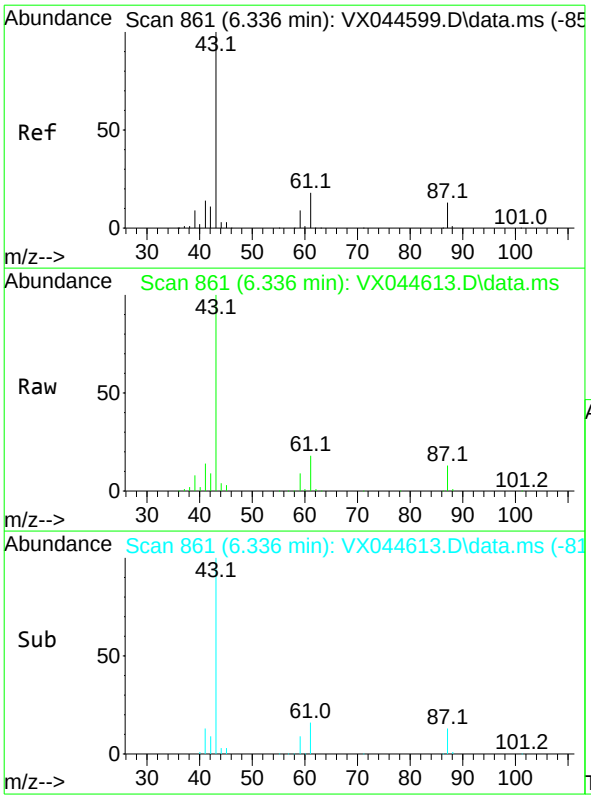


#42
1,2-Dichloroethane
Concen: 55.178 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 62 Resp: 178223

Ion	Ratio	Lower	Upper
62	100		
98	7.8	0.0	15.8

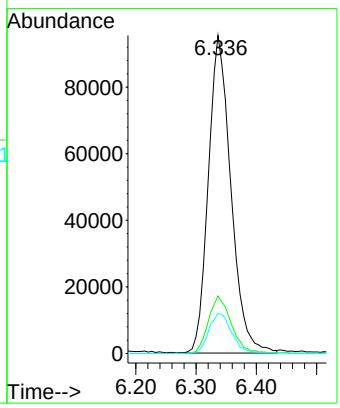




#43
Isopropyl Acetate
Concen: 56.022 ug/l
RT: 6.336 min Scan# 86
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 43 Resp: 248008

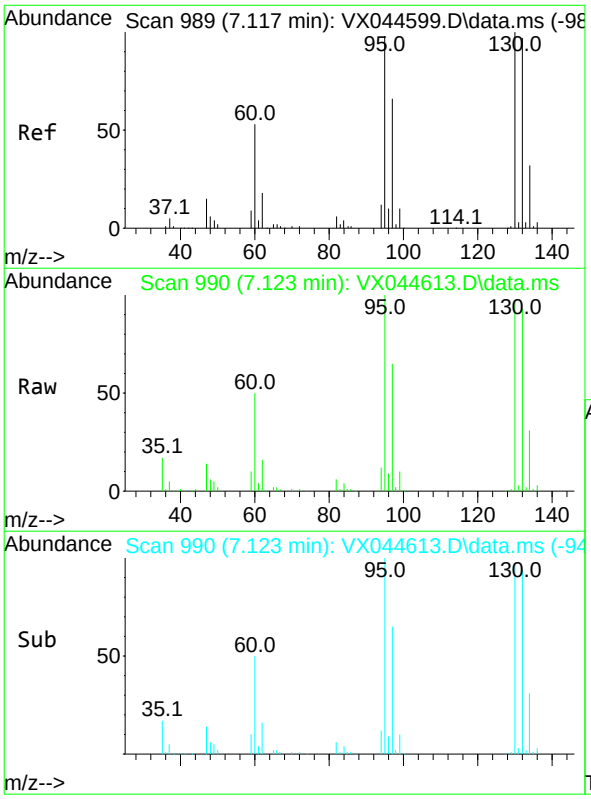
Ion	Ratio	Lower	Upper
43	100		
61	18.3	14.5	21.7
87	13.0	10.1	15.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

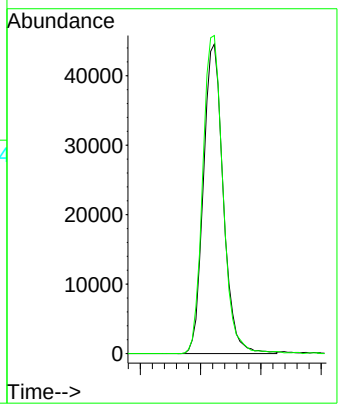
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

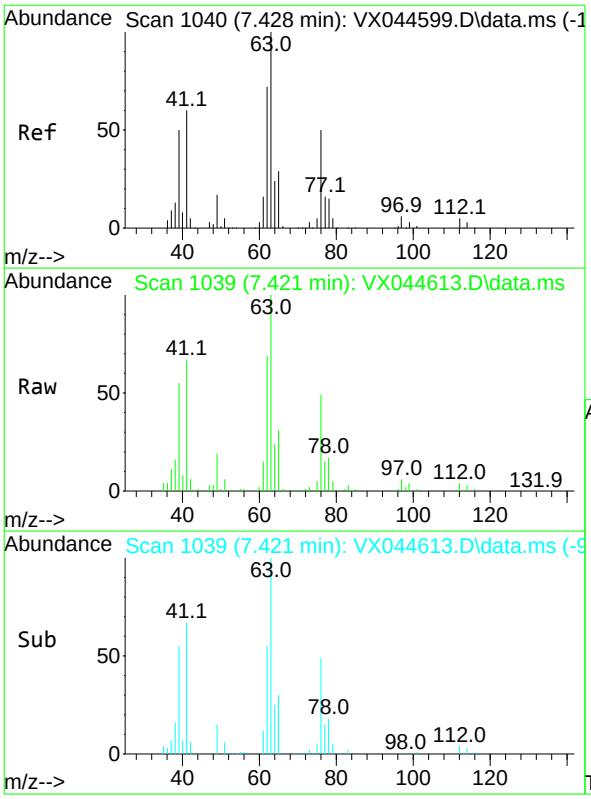


#44
Trichloroethene
Concen: 48.261 ug/l
RT: 7.123 min Scan# 990
Delta R.T. 0.006 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion:130 Resp: 101890

Ion	Ratio	Lower	Upper
130	100		
95	102.8	0.0	195.6

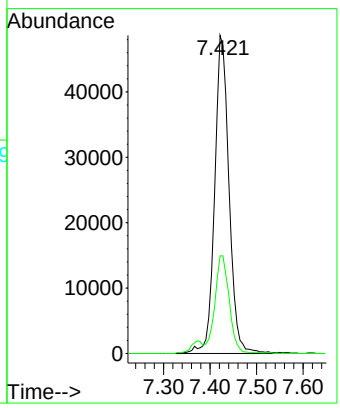




#45
1,2-Dichloropropane
Concen: 51.880 ug/l
RT: 7.421 min Scan# 10
Delta R.T. -0.006 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 63 Resp: 104468

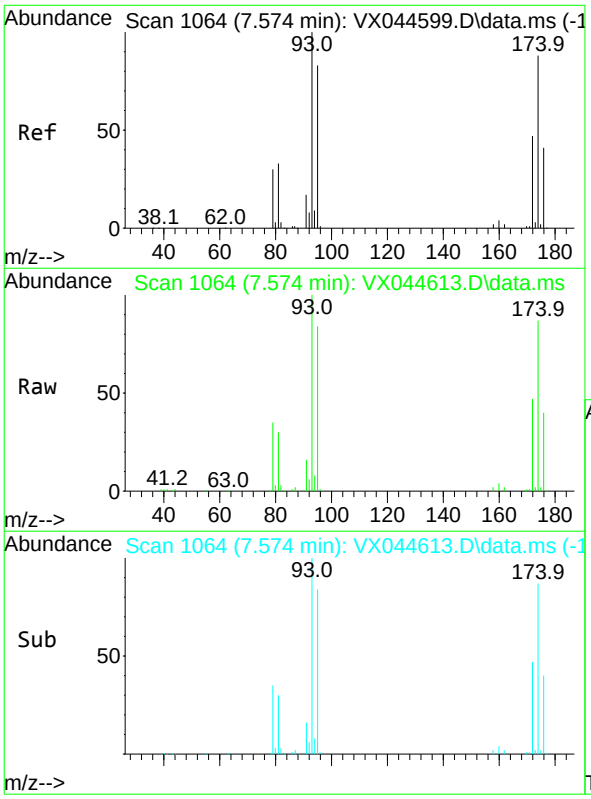
Ion	Ratio	Lower	Upper
63	100		
65	30.7	23.0	34.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

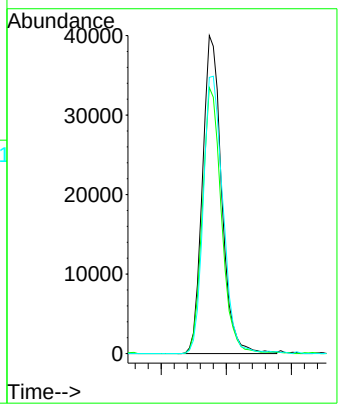
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

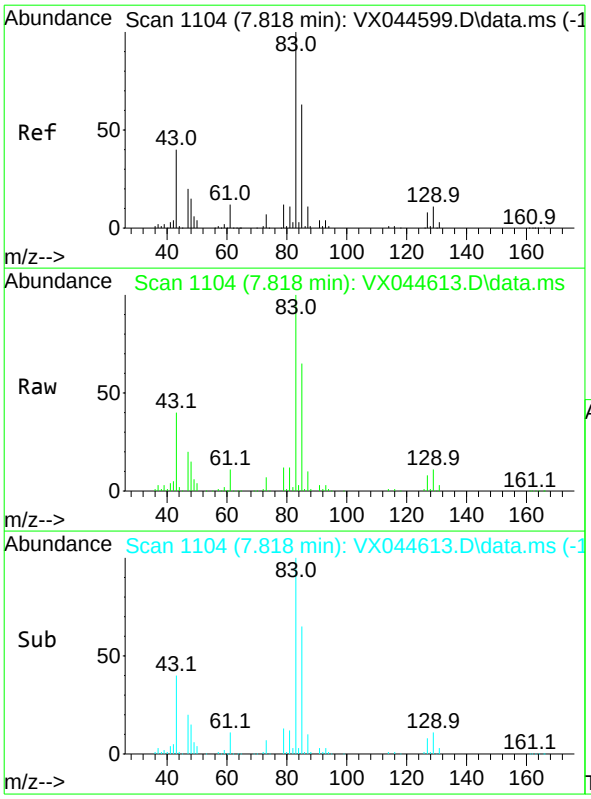


#46
Dibromomethane
Concen: 52.190 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 93 Resp: 81733

Ion	Ratio	Lower	Upper
93	100		
95	82.9	65.8	98.6
174	89.3	73.4	110.0

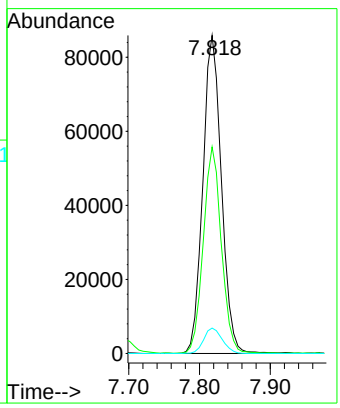




#47
Bromodichloromethane
Concen: 54.997 ug/l
RT: 7.818 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

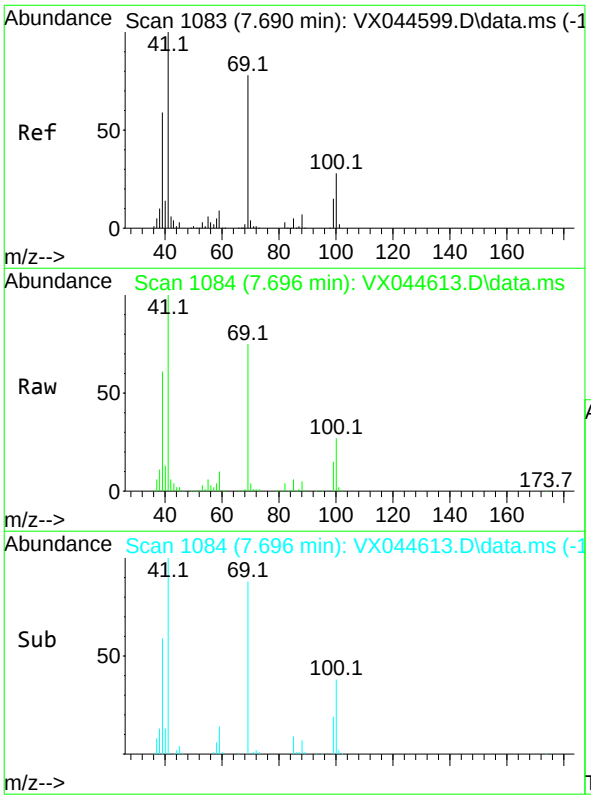
Tgt Ion: 83 Resp: 156733

Ion	Ratio	Lower	Upper
83	100		
85	64.8	50.4	75.6
127	8.0	6.2	9.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

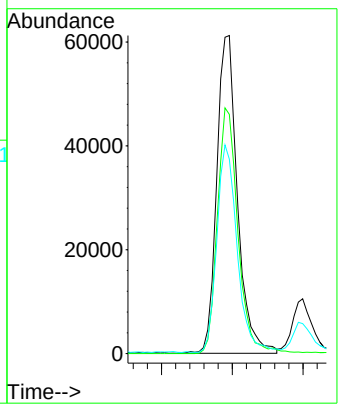
Manual Integrations APPROVED
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

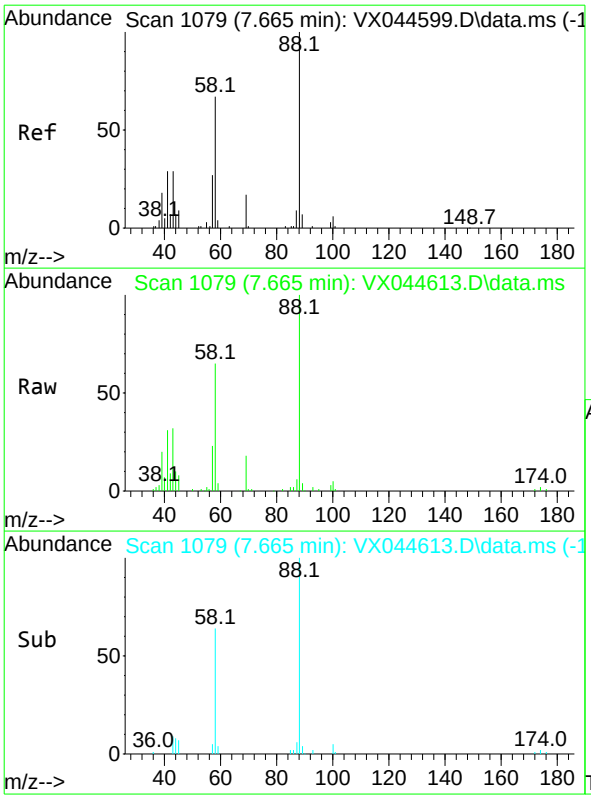


#48
Methyl methacrylate
Concen: 58.879 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. 0.006 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 41 Resp: 124321

Ion	Ratio	Lower	Upper
41	100		
69	77.2	62.9	94.3
39	64.0	48.9	73.3

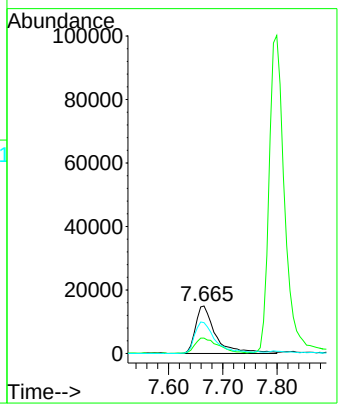




#49
1,4-Dioxane
Concen: 1249.198 ug/l
RT: 7.665 min Scan# 10
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 88 Resp: 38760

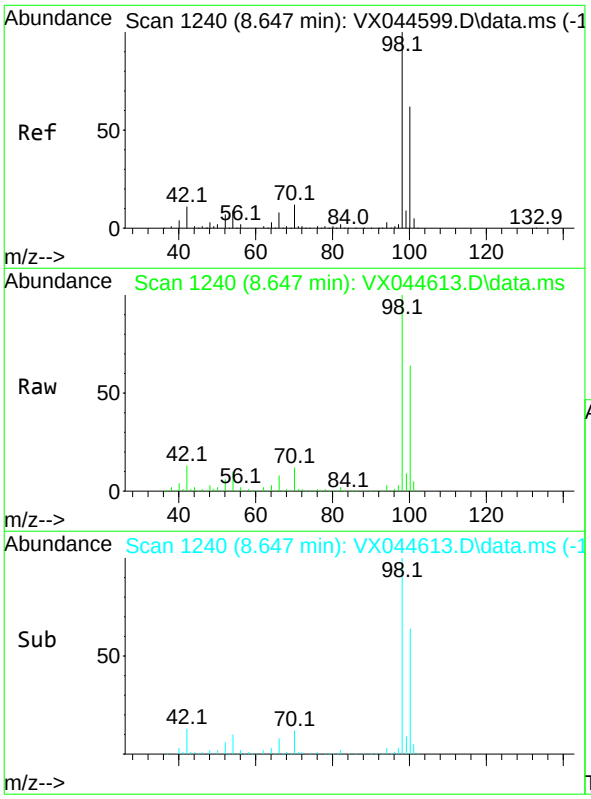
Ion	Ratio	Lower	Upper
88	100		
43	37.0	29.5	44.3
58	67.3	56.3	84.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

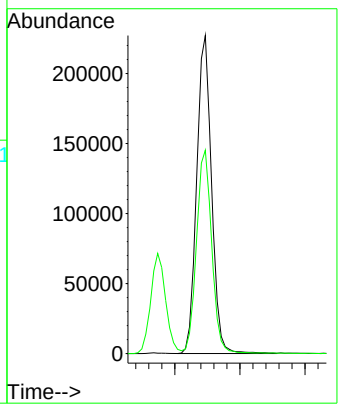
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

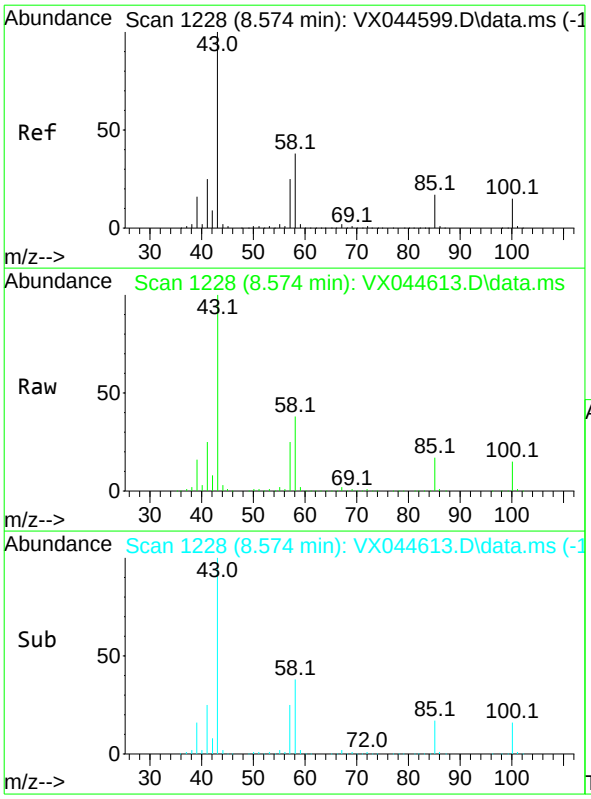


#50
Toluene-d8
Concen: 51.967 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 98 Resp: 360090

Ion	Ratio	Lower	Upper
98	100		
100	65.2	52.5	78.7

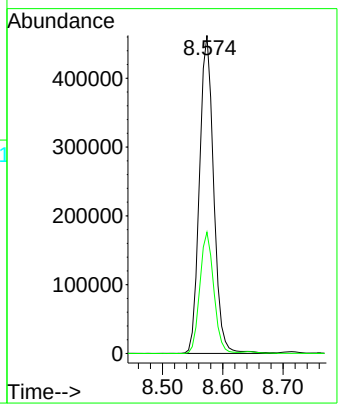




#51
4-Methyl-2-Pentanone
Concen: 292.284 ug/l
RT: 8.574 min Scan# 12
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 43 Resp: 756374

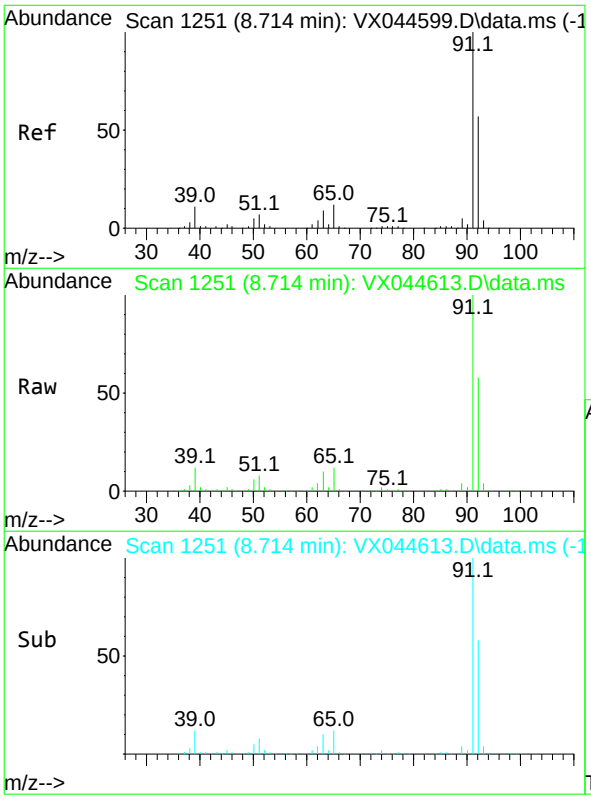
Ion	Ratio	Lower	Upper
43	100		
58	37.4	30.0	45.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

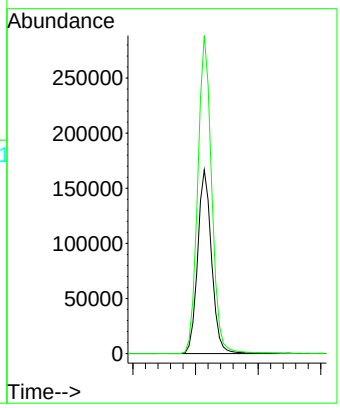
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

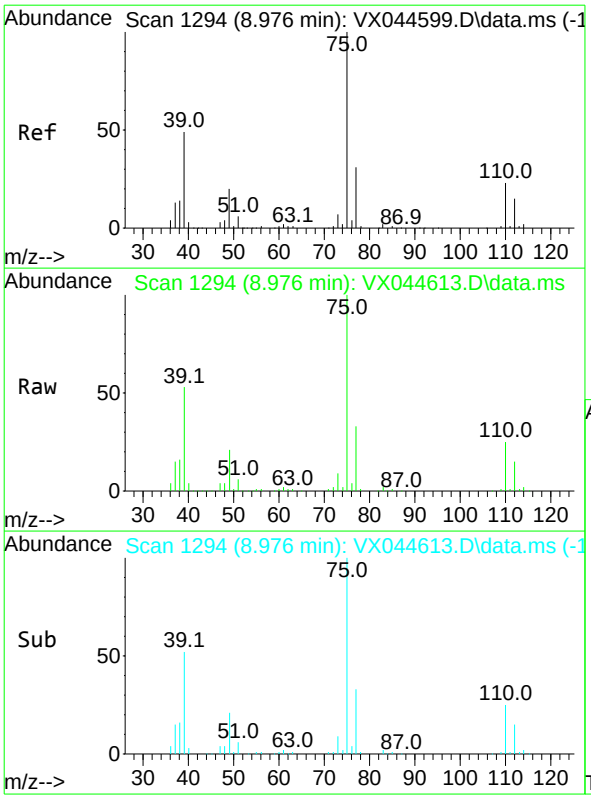


#52
Toluene
Concen: 51.653 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 92 Resp: 257402

Ion	Ratio	Lower	Upper
92	100		
91	173.7	140.6	210.8

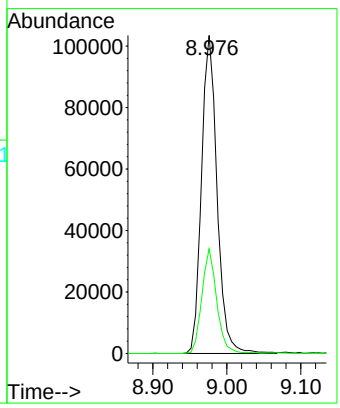




#53
t-1,3-Dichloropropene
Concen: 55.515 ug/l
RT: 8.976 min Scan# 12
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 75 Resp: 151224

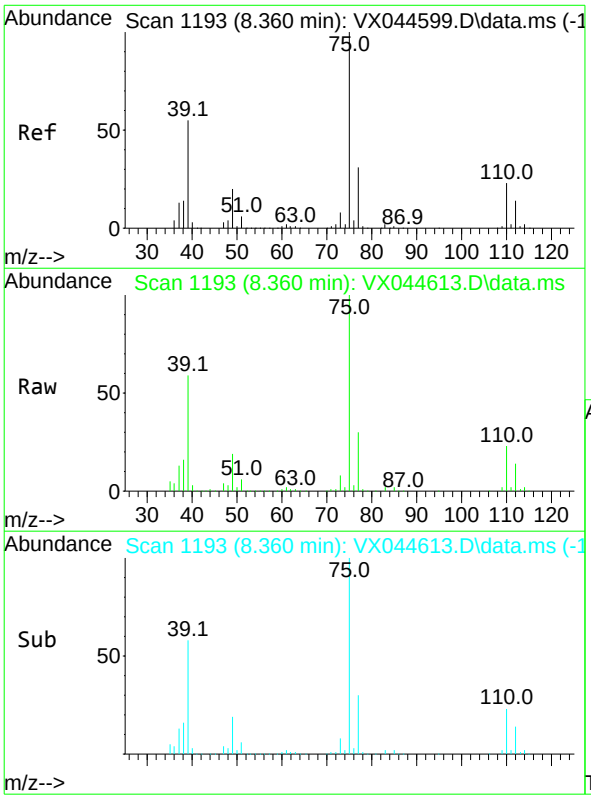
Ion	Ratio	Lower	Upper
75	100		
77	32.9	24.8	37.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

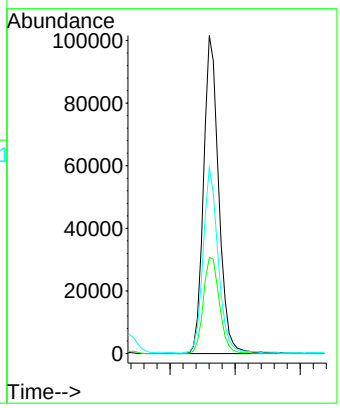
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

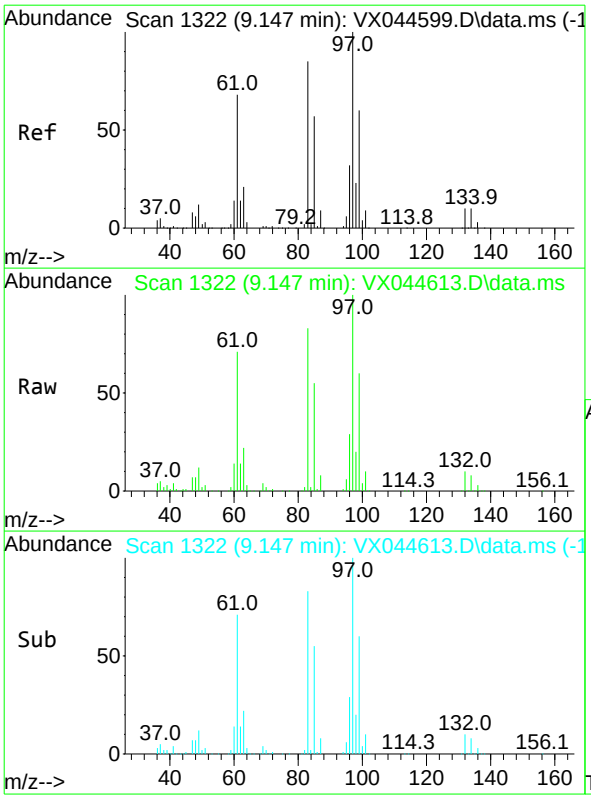


#54
cis-1,3-Dichloropropene
Concen: 53.656 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 75 Resp: 164267

Ion	Ratio	Lower	Upper
75	100		
77	30.2	24.5	36.7
39	58.3	44.3	66.5

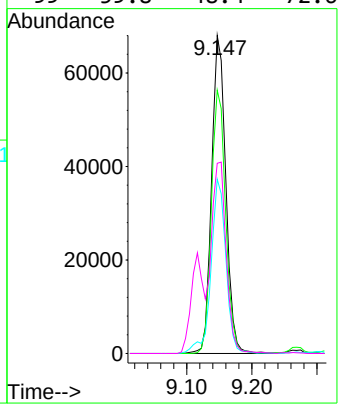




#55
1,1,2-Trichloroethane
Concen: 52.771 ug/l
RT: 9.147 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 97 Resp: 103095

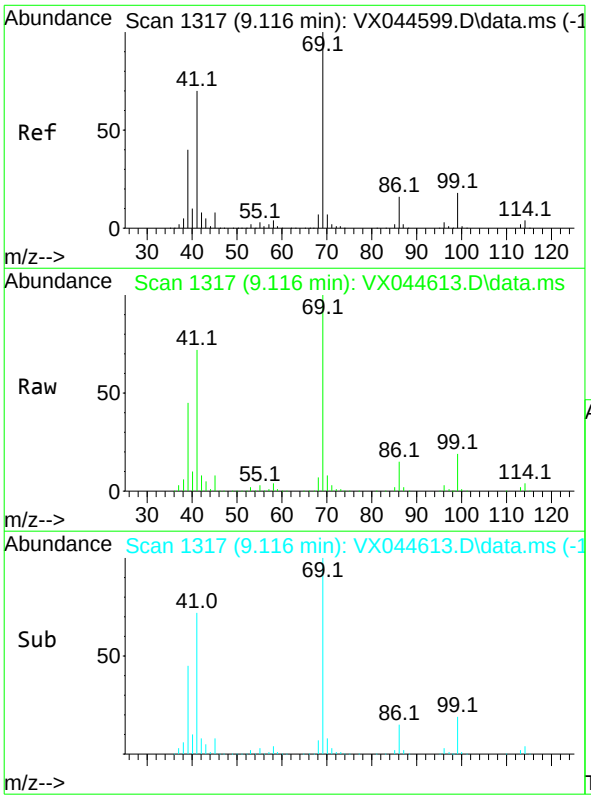
Ion	Ratio	Lower	Upper
97	100		
83	82.8	68.0	102.0
85	54.8	45.4	68.0
99	59.8	48.4	72.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

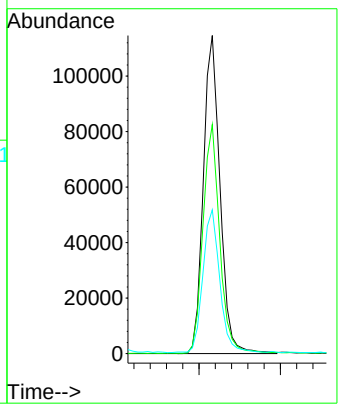
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

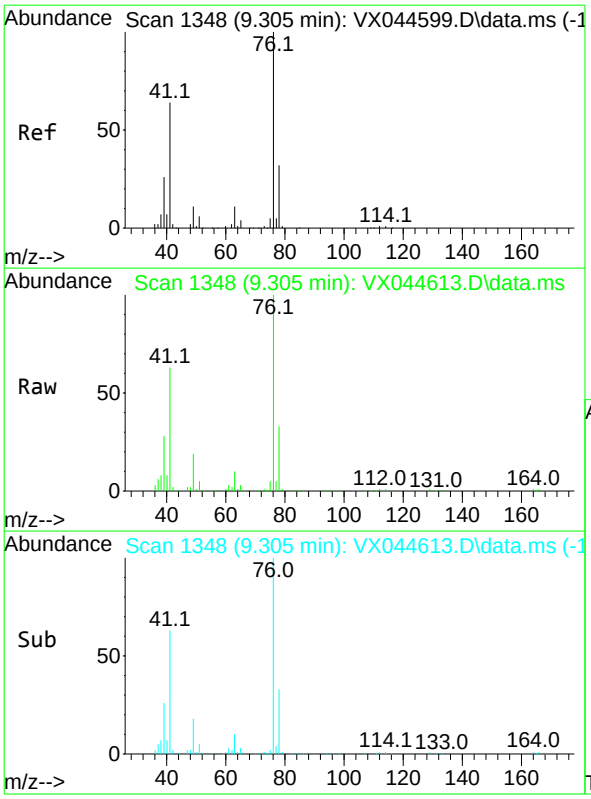


#56
Ethyl methacrylate
Concen: 57.469 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 69 Resp: 163278

Ion	Ratio	Lower	Upper
69	100		
41	72.0	57.7	86.5
39	45.4	33.7	50.5

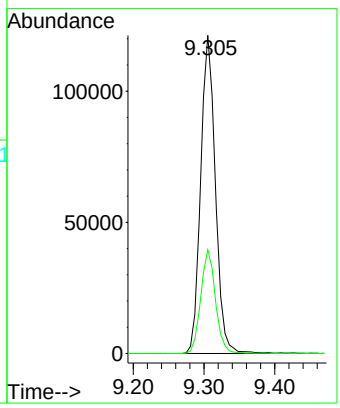




#57
1,3-Dichloropropane
Concen: 53.383 ug/l
RT: 9.305 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 76 Resp: 175128

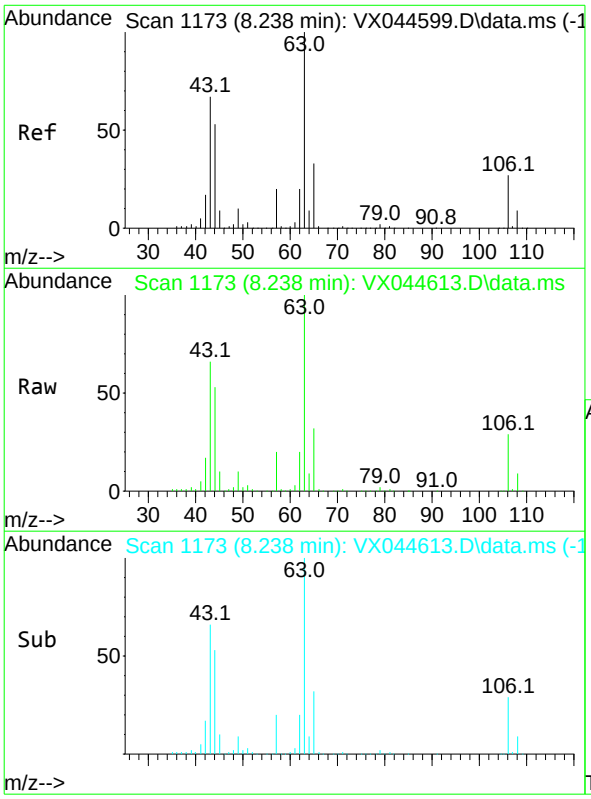
Ion	Ratio	Lower	Upper
76	100		
78	32.5	25.8	38.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

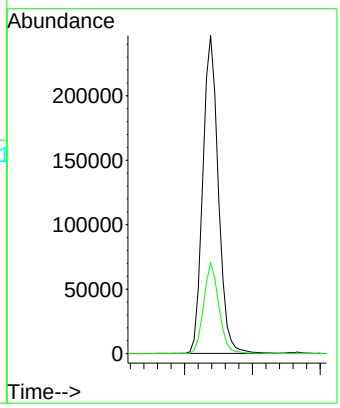
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

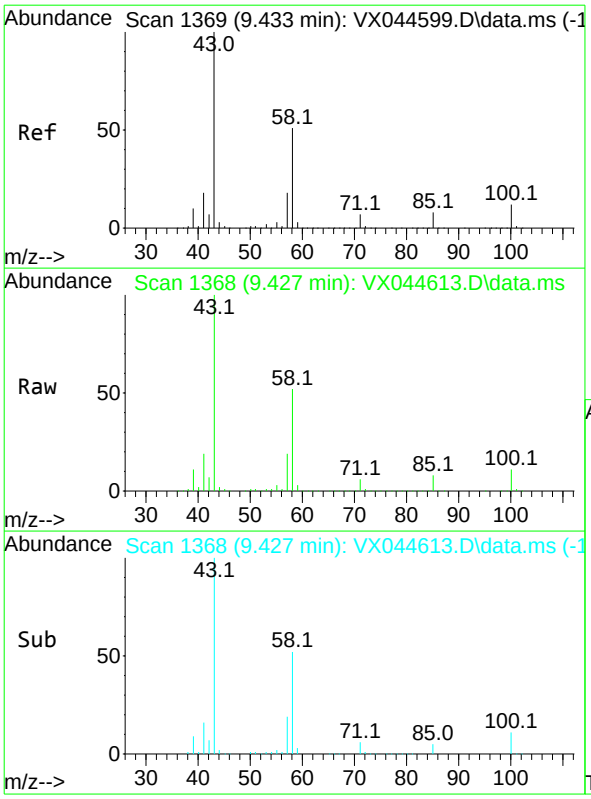


#58
2-Chloroethyl Vinyl ether
Concen: 278.235 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 63 Resp: 391895

Ion	Ratio	Lower	Upper
63	100		
106	28.0	22.4	33.6

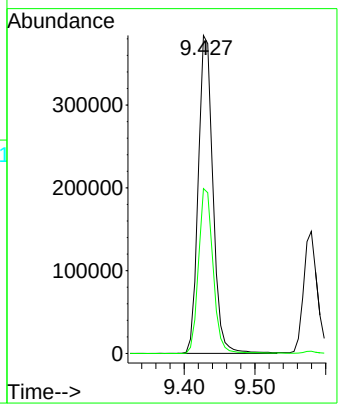




#59
2-Hexanone
Concen: 302.247 ug/l
RT: 9.427 min Scan# 13
Delta R.T. -0.006 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 43 Resp: 553155

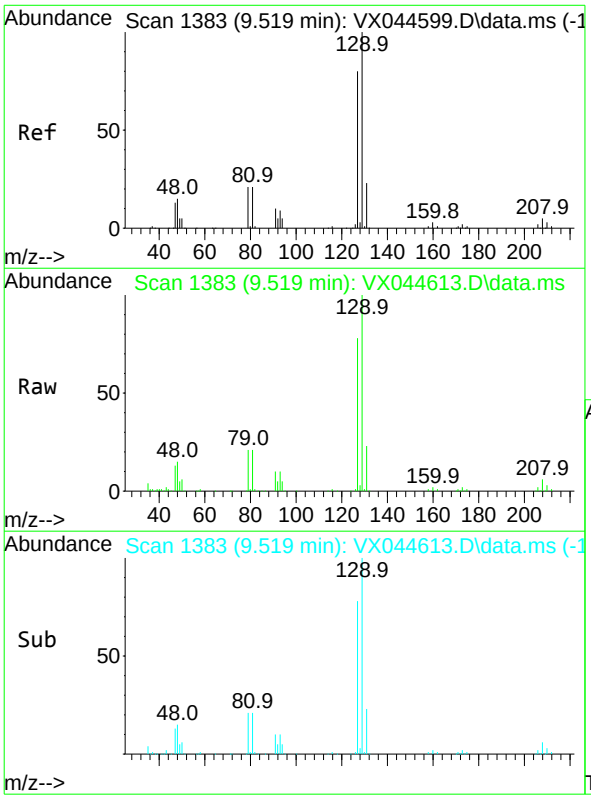
Ion	Ratio	Lower	Upper
43	100		
58	51.5	25.4	76.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

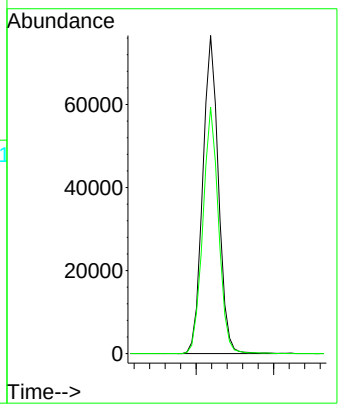
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

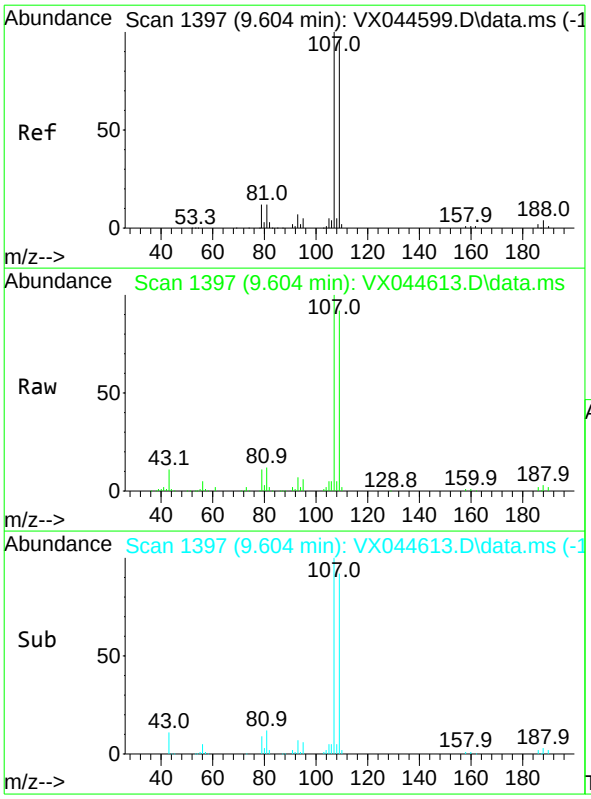


#60
Dibromochloromethane
Concen: 55.427 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion:129 Resp: 107971

Ion	Ratio	Lower	Upper
129	100		
127	77.0	38.9	116.7

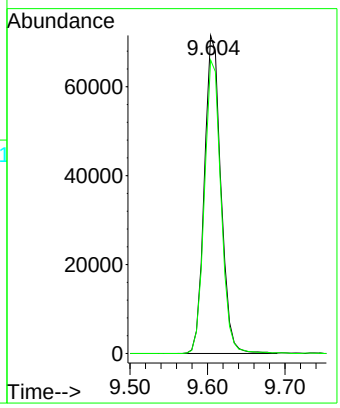




#61
1,2-Dibromoethane
Concen: 53.635 ug/l
RT: 9.604 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion:107 Resp: 105825

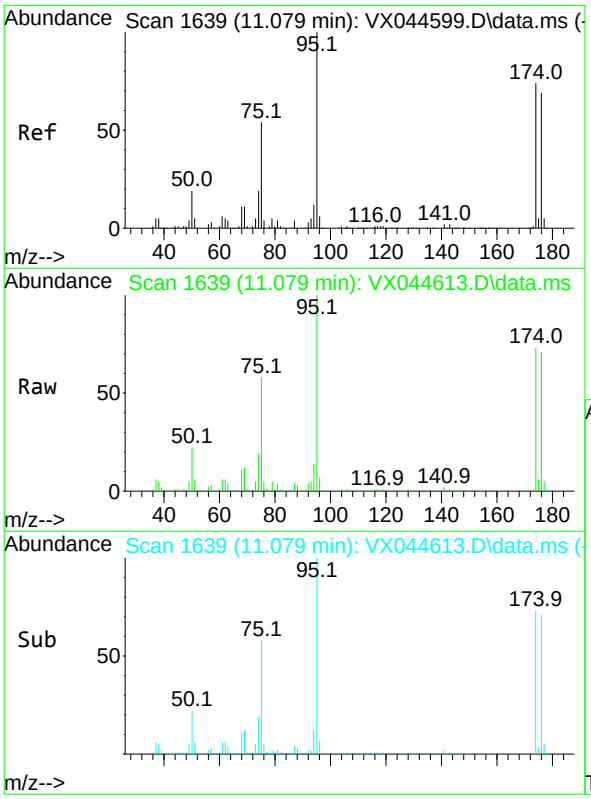
Ion	Ratio	Lower	Upper
107	100		
109	92.7	76.7	115.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

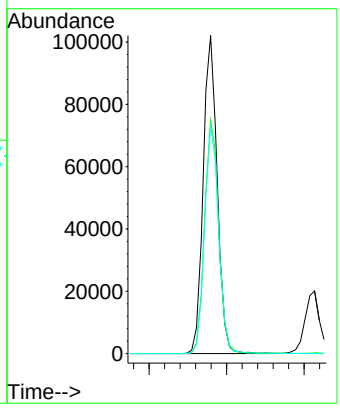
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

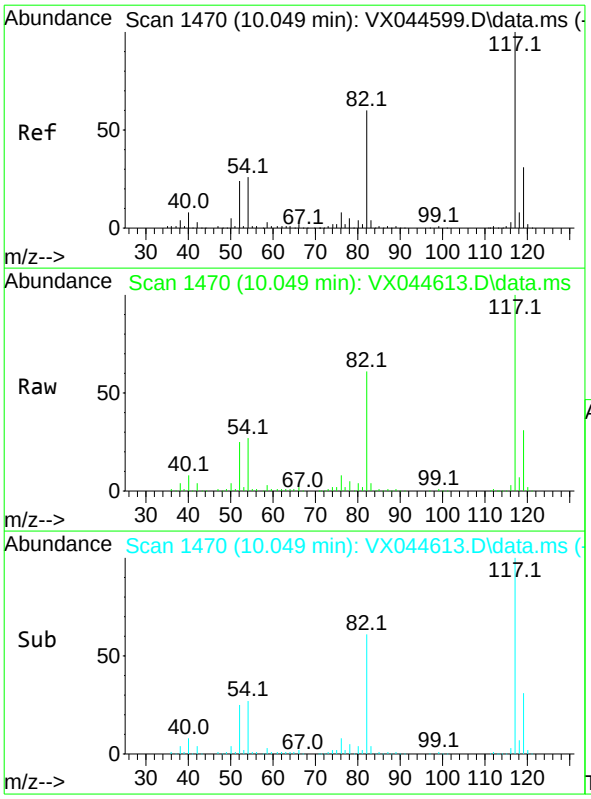


#62
4-Bromofluorobenzene
Concen: 52.415 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 95 Resp: 128195

Ion	Ratio	Lower	Upper
95	100		
174	74.0	0.0	148.8
176	71.8	0.0	139.8

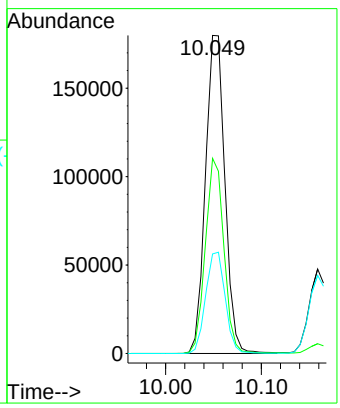




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion:117 Resp: 253685

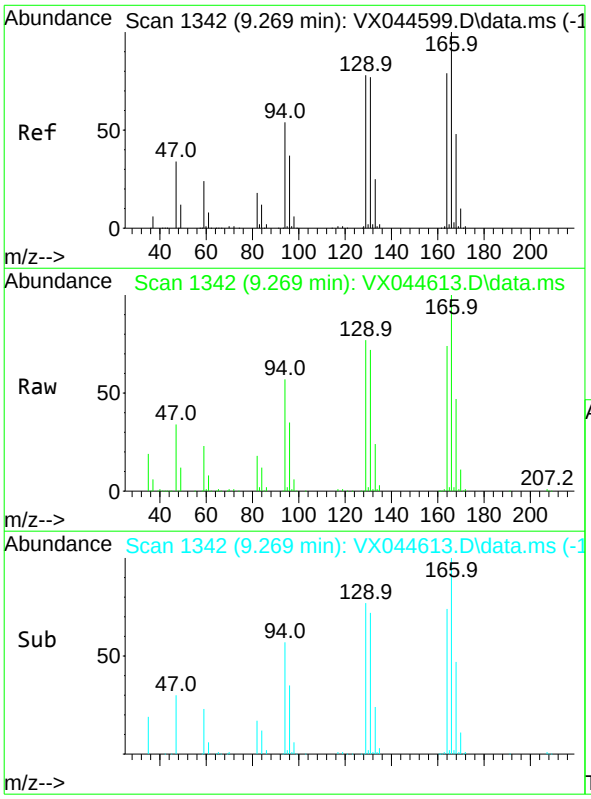
Ion	Ratio	Lower	Upper
117	100		
82	61.3	47.8	71.6
119	31.3	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

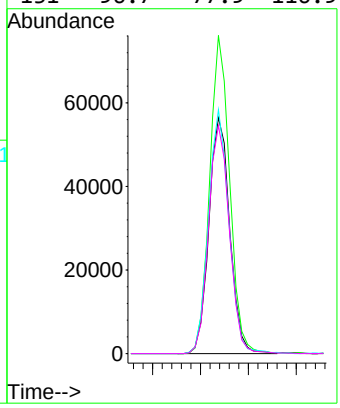
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

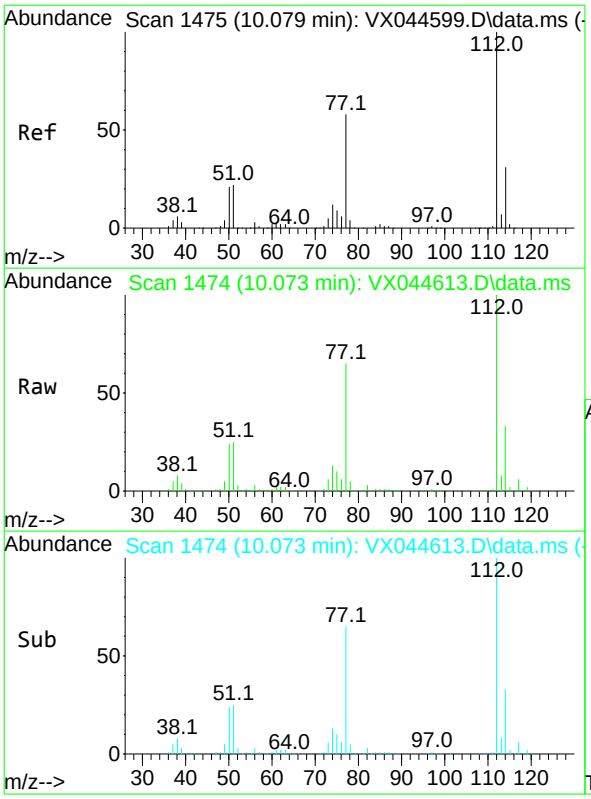


#64
Tetrachloroethene
Concen: 47.587 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion:164 Resp: 85353

Ion	Ratio	Lower	Upper
164	100		
166	135.0	101.5	152.3
129	103.5	78.9	118.3
131	96.7	77.9	116.9

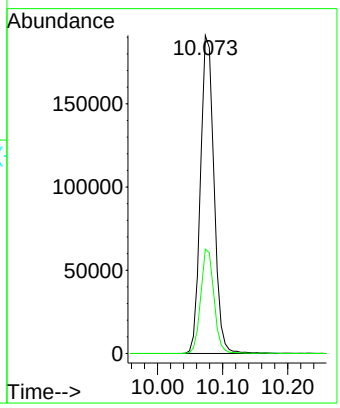




#65
Chlorobenzene
Concen: 51.238 ug/l
RT: 10.073 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion:112 Resp: 275873

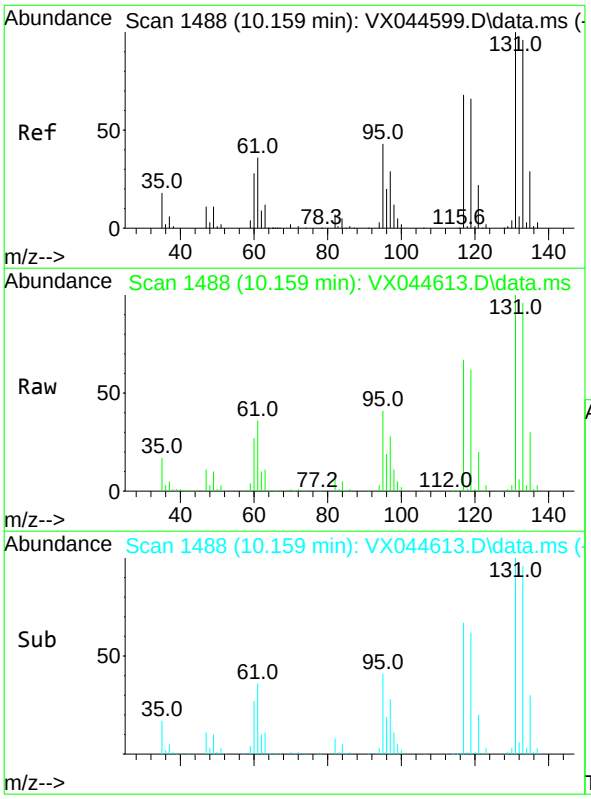
Ion	Ratio	Lower	Upper
112	100		
114	32.8	25.0	37.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

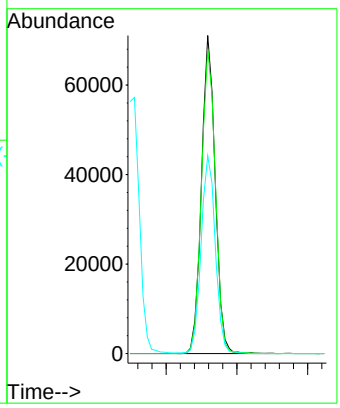
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

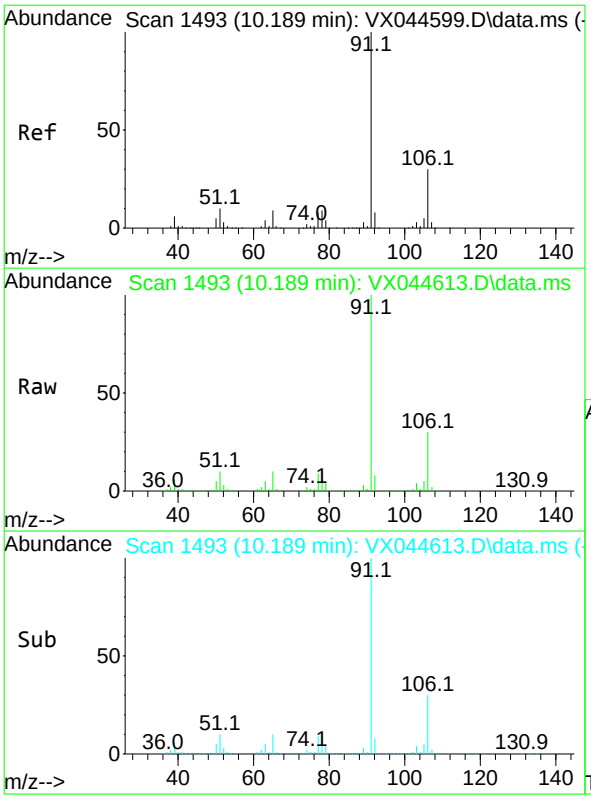


#66
1,1,1,2-Tetrachloroethane
Concen: 53.429 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion:131 Resp: 95543

Ion	Ratio	Lower	Upper
131	100		
133	97.6	48.0	144.0
119	64.7	32.8	98.4

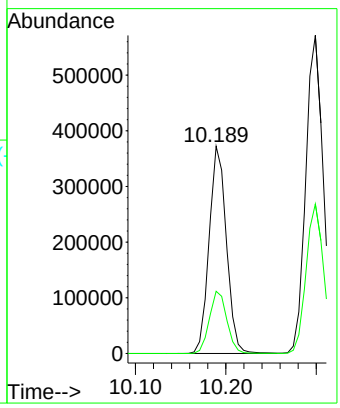




#67
Ethyl Benzene
Concen: 53.443 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 91 Resp: 494122

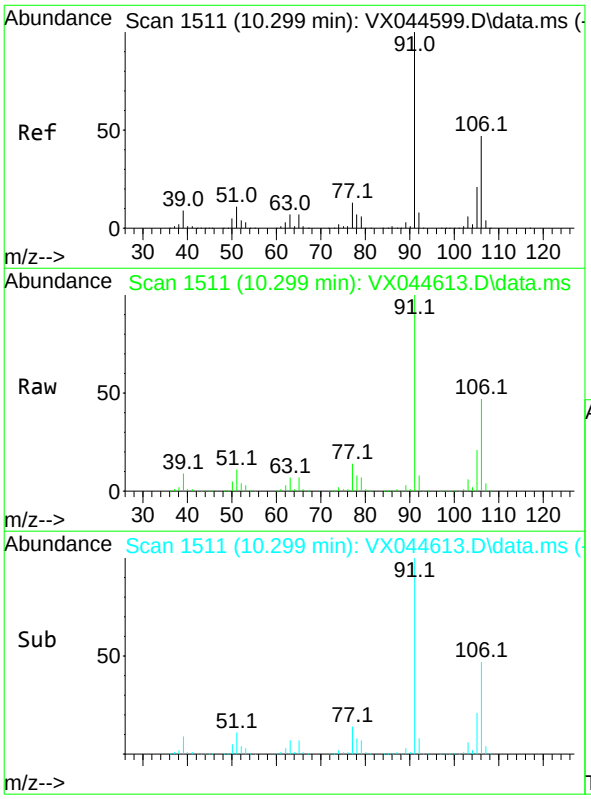
Ion	Ratio	Lower	Upper
91	100		
106	30.0	23.8	35.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

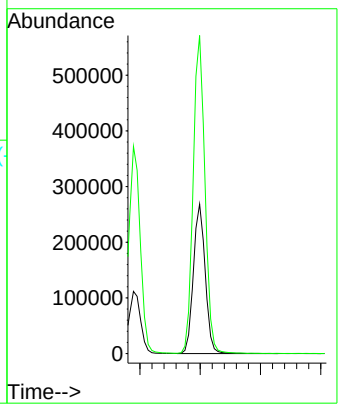
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

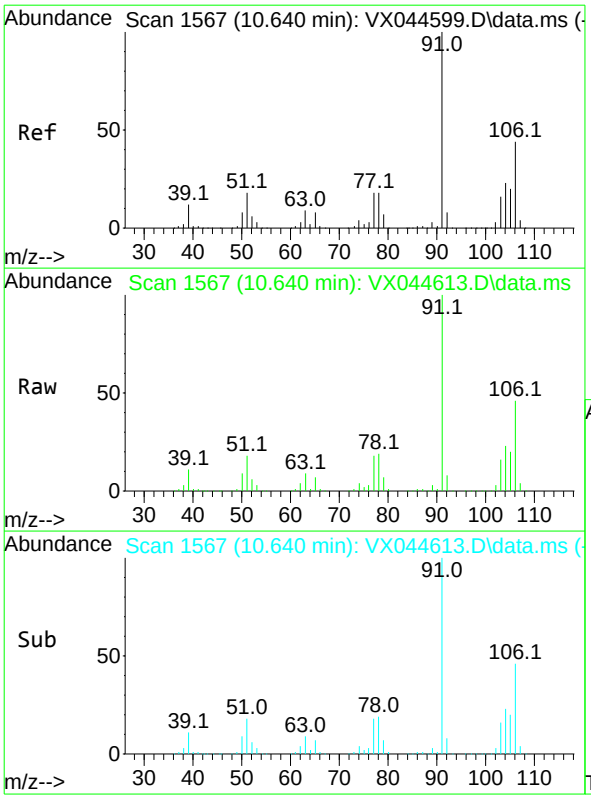


#68
m/p-Xylenes
Concen: 107.604 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion:106 Resp: 365584

Ion	Ratio	Lower	Upper
106	100		
91	211.7	170.4	255.6

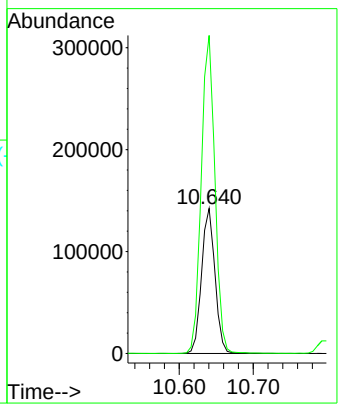




#69
o-Xylene
Concen: 52.289 ug/l
RT: 10.640 min Scan# 15
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion:106 Resp: 179313

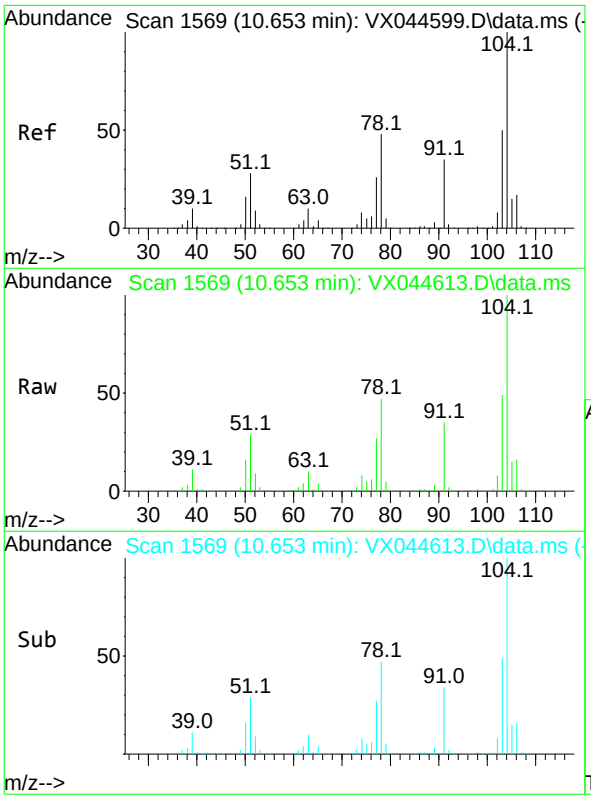
Ion	Ratio	Lower	Upper
106	100		
91	223.1	112.3	336.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

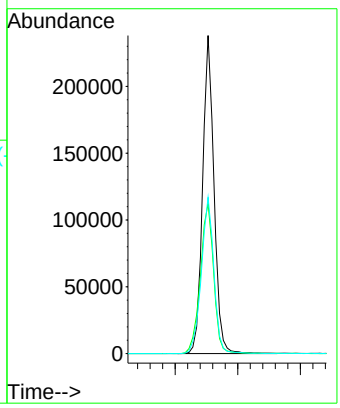
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

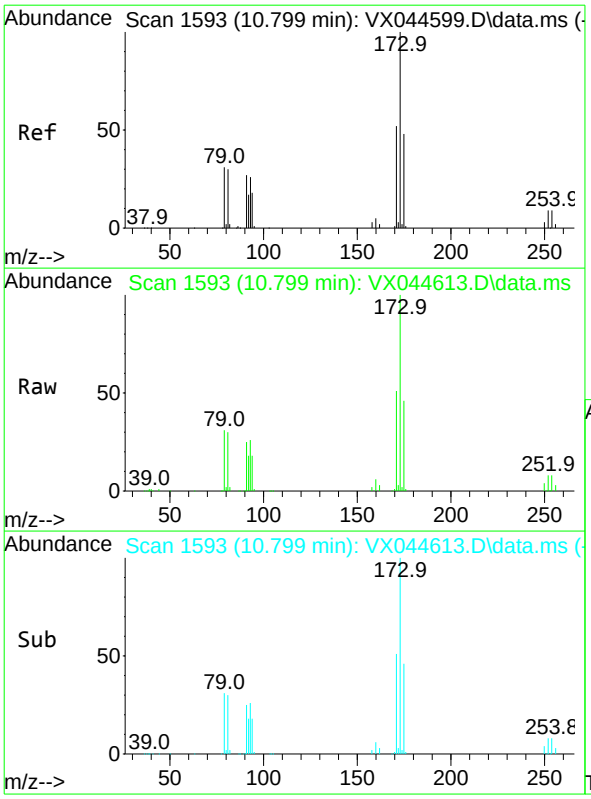


#70
Styrene
Concen: 54.813 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion:104 Resp: 300652

Ion	Ratio	Lower	Upper
104	100		
78	55.0	44.0	66.0
103	54.3	43.8	65.6

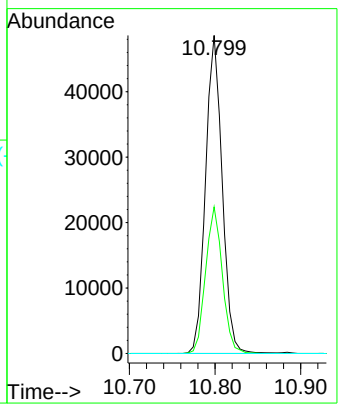




#71
Bromoform
Concen: 52.026 ug/l
RT: 10.799 min Scan# 15
Delta R.T. -0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion:173 Resp: 65460

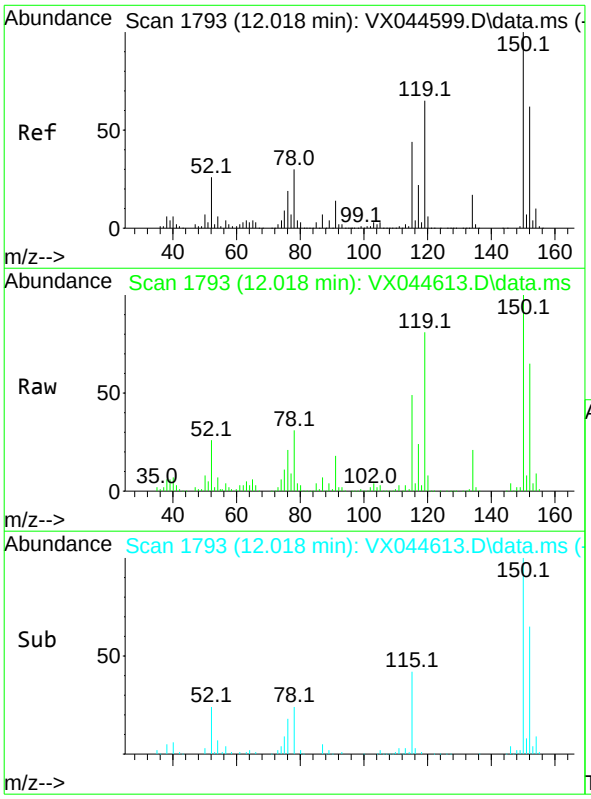
Ion	Ratio	Lower	Upper
173	100		
175	46.5	24.6	73.8
254	0.0	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

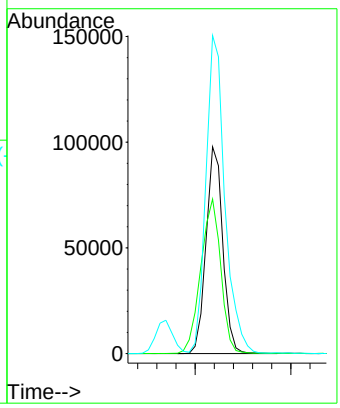
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

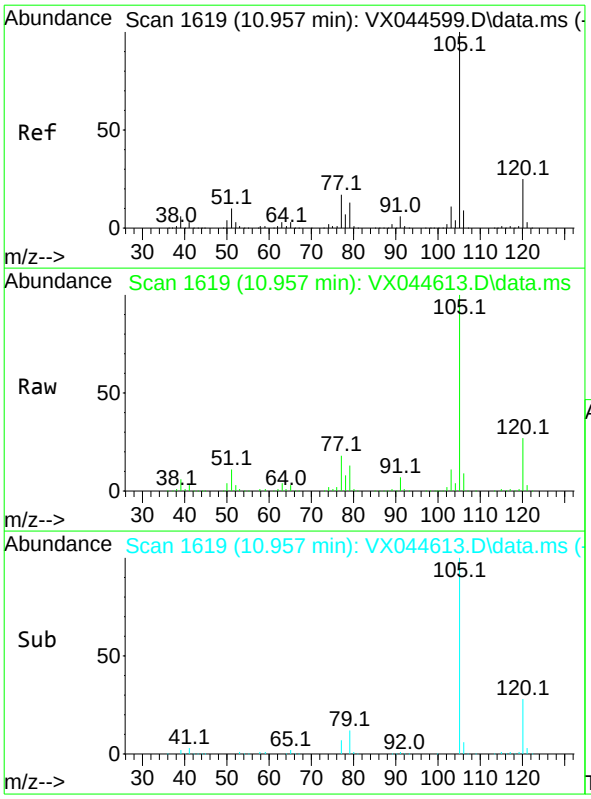


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion:152 Resp: 118886

Ion	Ratio	Lower	Upper
152	100		
115	89.6	44.4	133.1
150	173.3	0.0	355.0

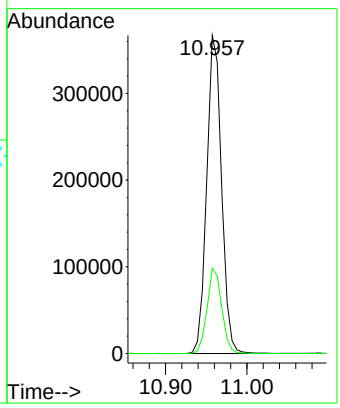




#73
Isopropylbenzene
Concen: 52.618 ug/l
RT: 10.957 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion:105 Resp: 463455

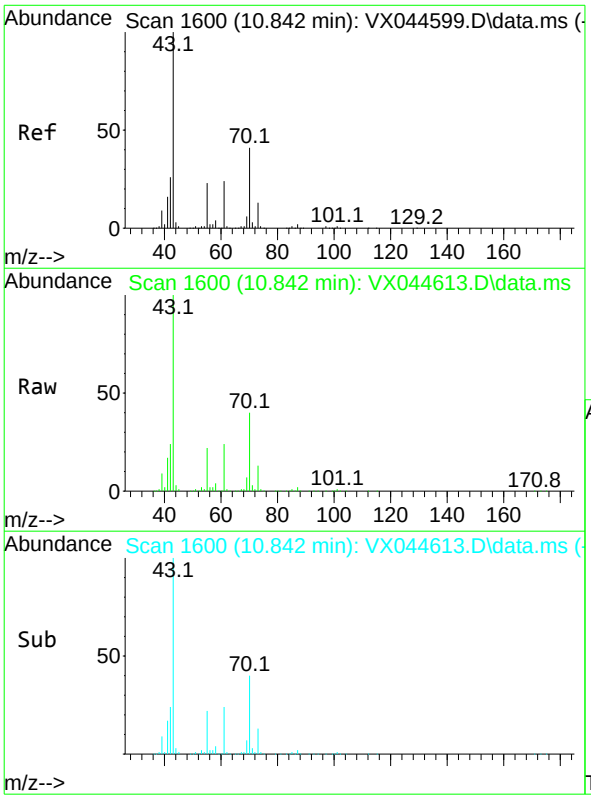
Ion	Ratio	Lower	Upper
105	100		
120	26.6	13.0	38.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

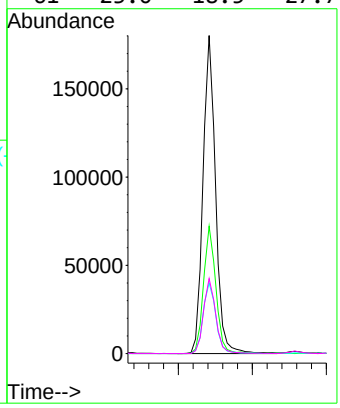
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

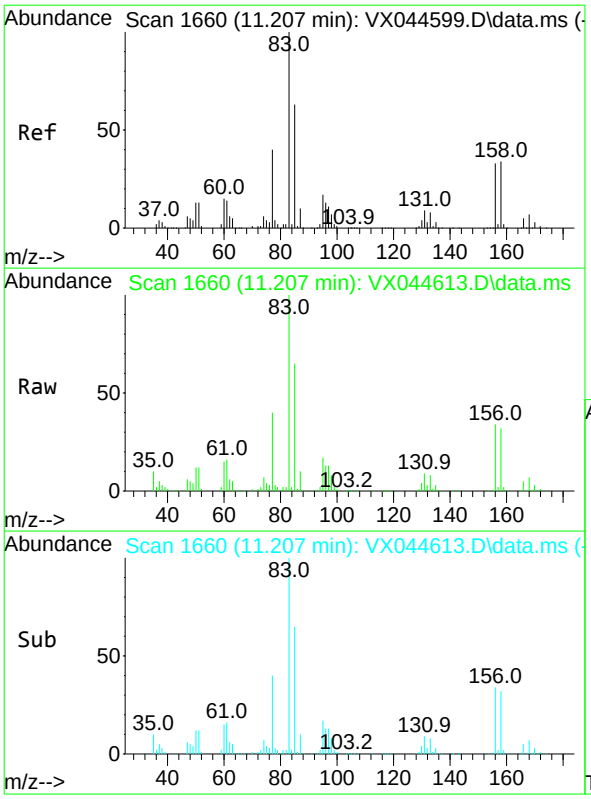


#74
N-amyl acetate
Concen: 59.395 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 43 Resp: 212270

Ion	Ratio	Lower	Upper
43	100		
70	39.5	32.9	49.3
55	22.6	19.0	28.6
61	23.0	18.5	27.7

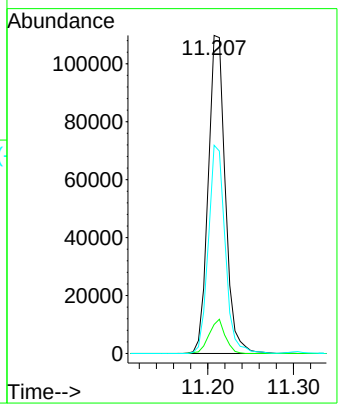




#75
1,1,2,2-Tetrachloroethane
Concen: 53.439 ug/l
RT: 11.207 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 83 Resp: 151715

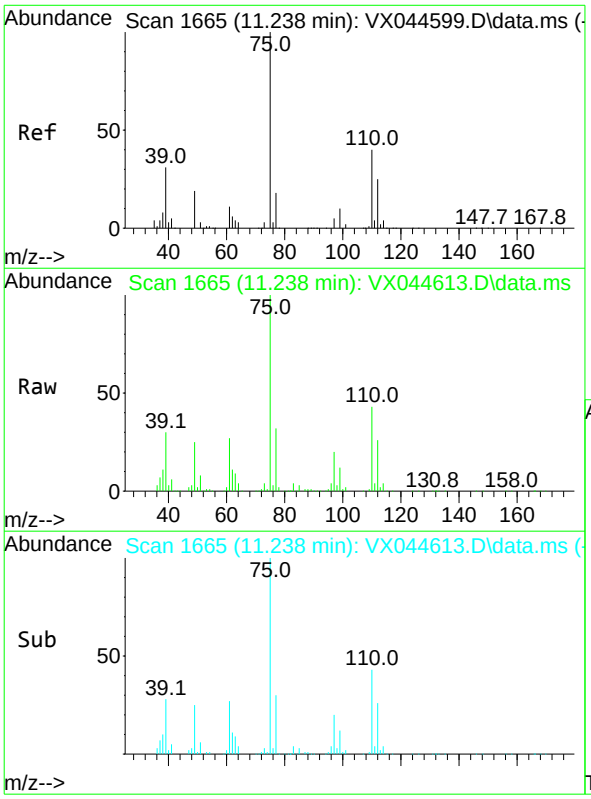
Ion	Ratio	Lower	Upper
83	100		
131	10.2	5.0	15.0
85	64.4	31.9	95.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

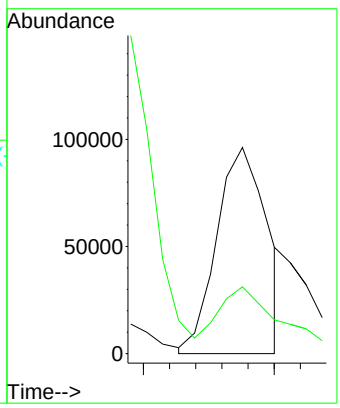
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

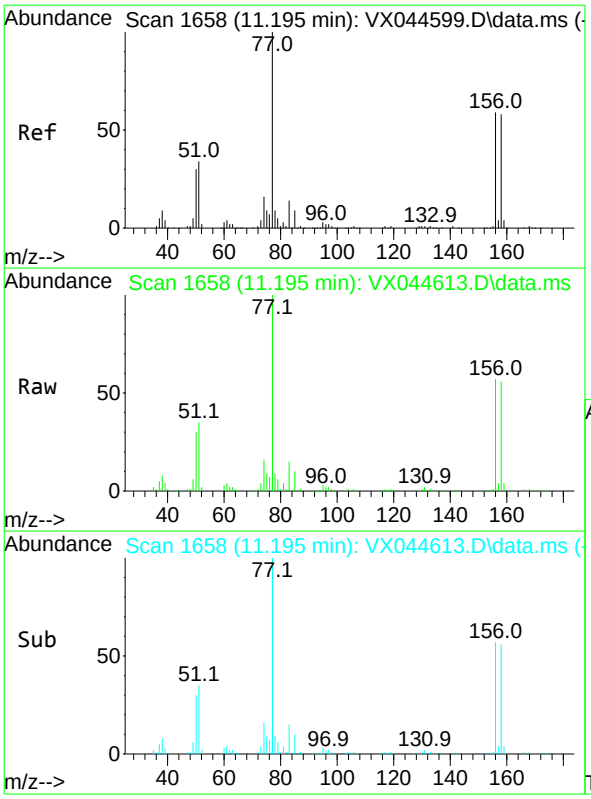


#76
1,2,3-Trichloropropane
Concen: 53.831 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 75 Resp: 128289

Ion	Ratio	Lower	Upper
75	100		
77	41.0	21.1	63.1





#77
Bromobenzene
Concen: 51.994 ug/l
RT: 11.195 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

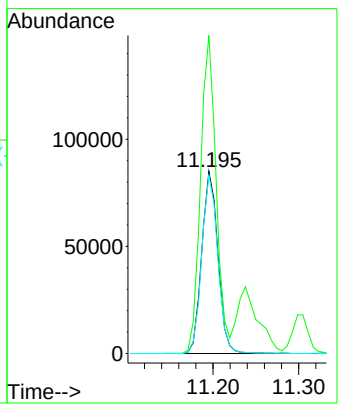
Tgt Ion:156 Resp: 111248

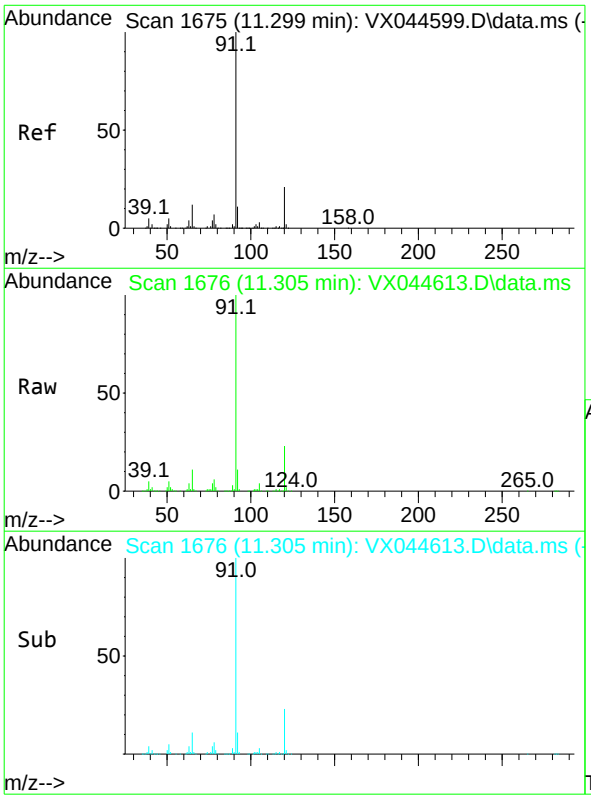
Ion	Ratio	Lower	Upper
156	100		
77	168.9	85.7	257.1
158	97.4	49.9	149.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

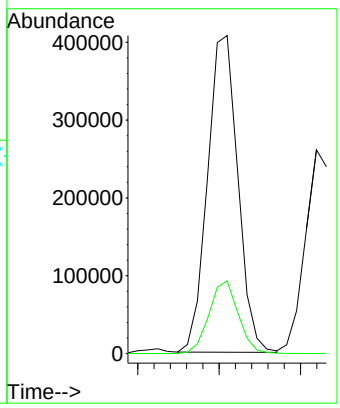


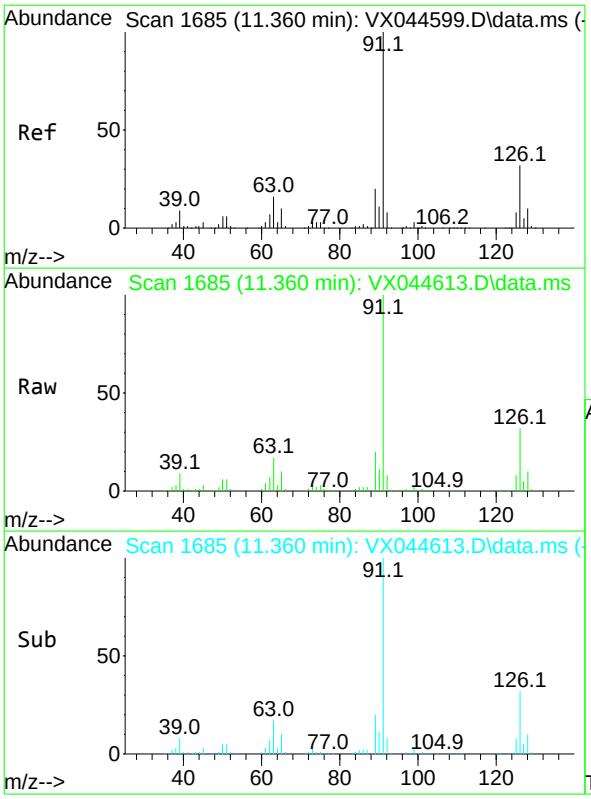


#78
n-propylbenzene
Concen: 53.141 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.006 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 91 Resp: 527200

Ion	Ratio	Lower	Upper
91	100		
120	22.2	11.2	33.5

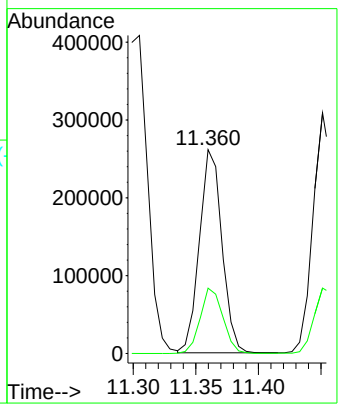




#79
2-Chlorotoluene
Concen: 50.916 ug/l
RT: 11.360 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 91 Resp: 327328

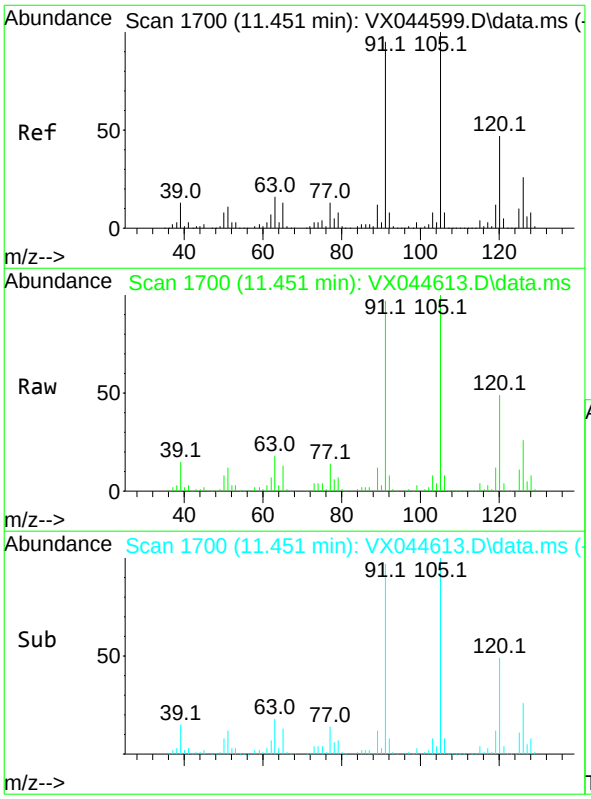
Ion	Ratio	Lower	Upper
91	100		
126	32.4	16.4	49.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

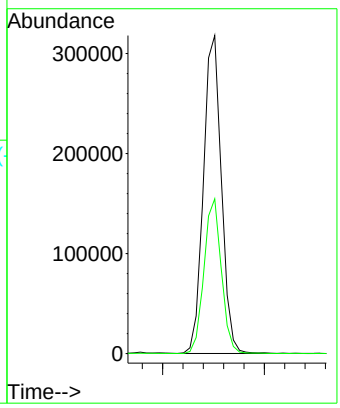
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

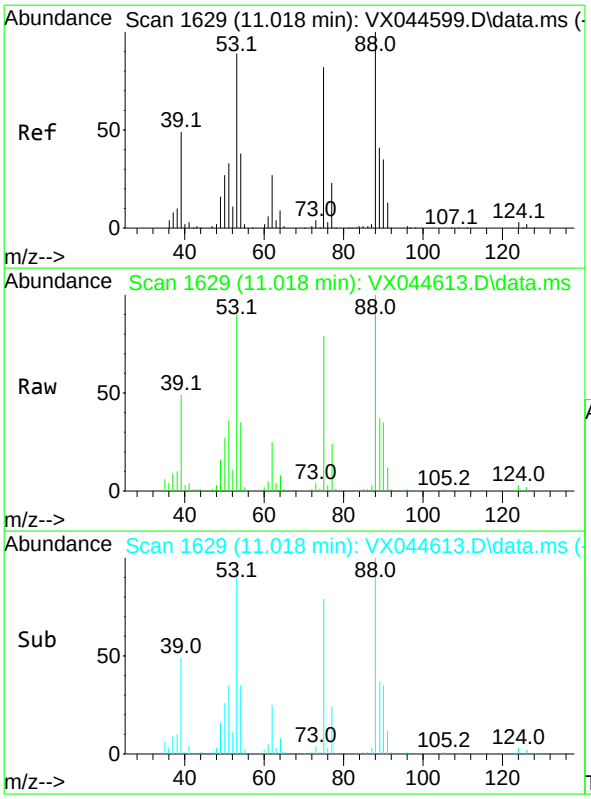


#80
1,3,5-Trimethylbenzene
Concen: 53.347 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion:105 Resp: 389590

Ion	Ratio	Lower	Upper
105	100		
120	47.1	23.5	70.5

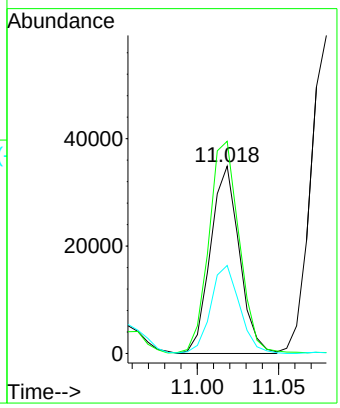




#81
trans-1,4-Dichloro-2-butene
Concen: 55.176 ug/l
RT: 11.018 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 75 Resp: 43198

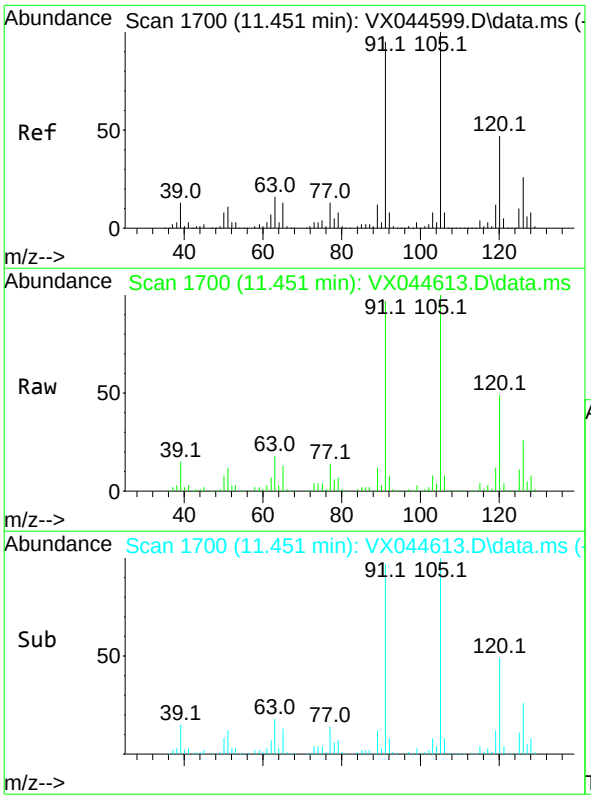
Ion	Ratio	Lower	Upper
75	100		
53	118.4	92.7	139.1
89	47.0	38.3	57.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

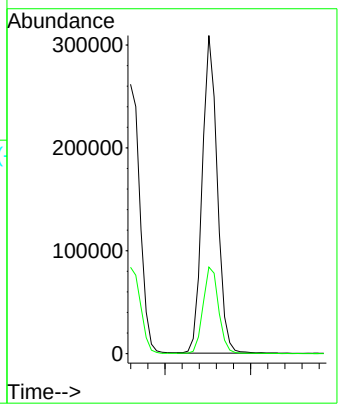
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

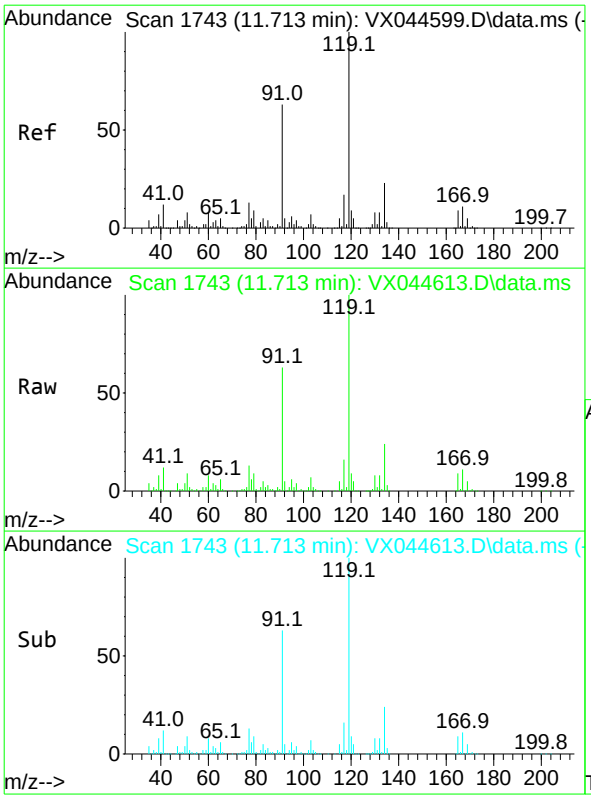


#82
4-Chlorotoluene
Concen: 52.030 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 91 Resp: 376292

Ion	Ratio	Lower	Upper
91	100		
126	28.3	14.0	42.0

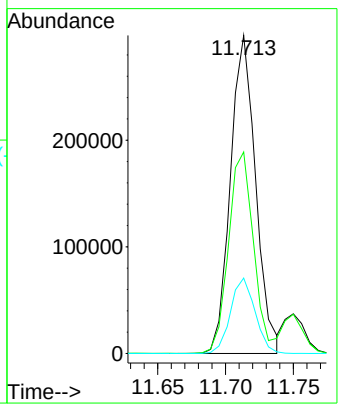




#83
tert-Butylbenzene
Concen: 53.037 ug/l
RT: 11.713 min Scan# 17
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion:119 Resp: 385674

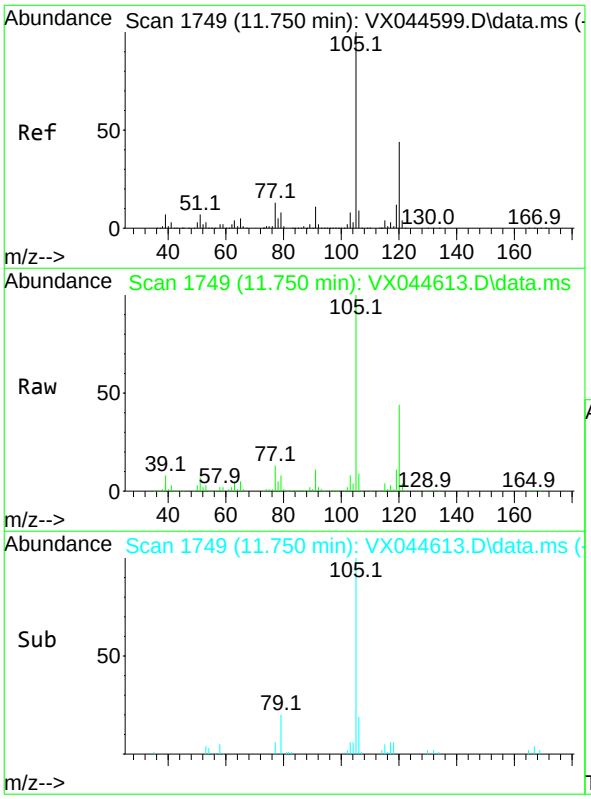
Ion	Ratio	Lower	Upper
119	100		
91	62.1	30.9	92.8
134	23.1	11.7	35.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

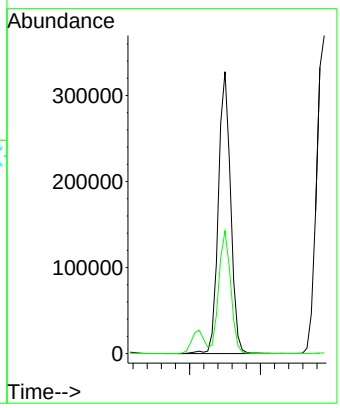
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

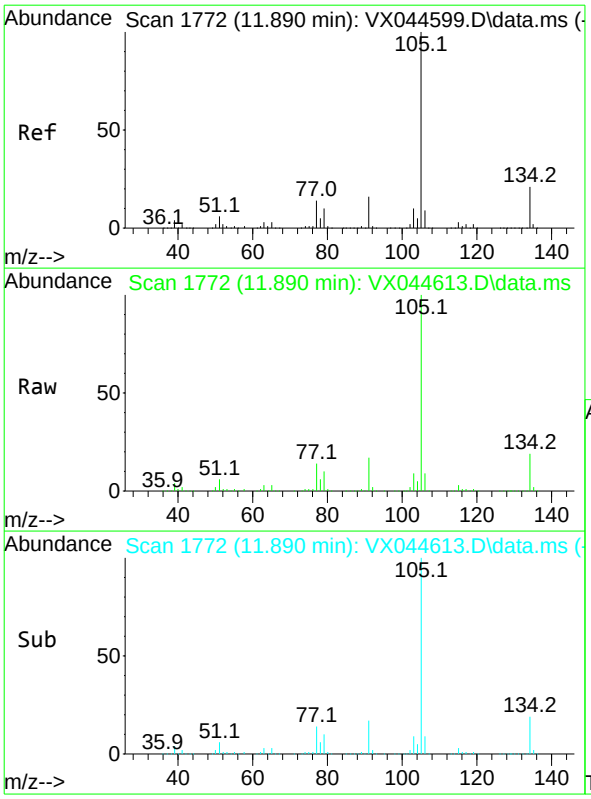


#84
1,2,4-Trimethylbenzene
Concen: 53.535 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion:105 Resp: 392732

Ion	Ratio	Lower	Upper
105	100		
120	42.7	21.9	65.7

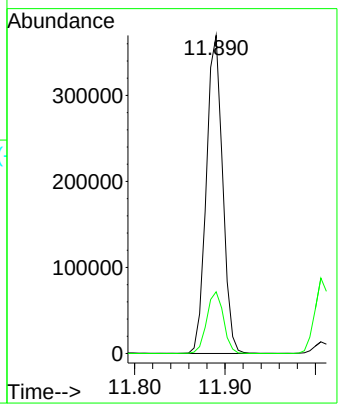




#85
sec-Butylbenzene
Concen: 52.250 ug/l
RT: 11.890 min Scan# 17
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion:105 Resp: 462731

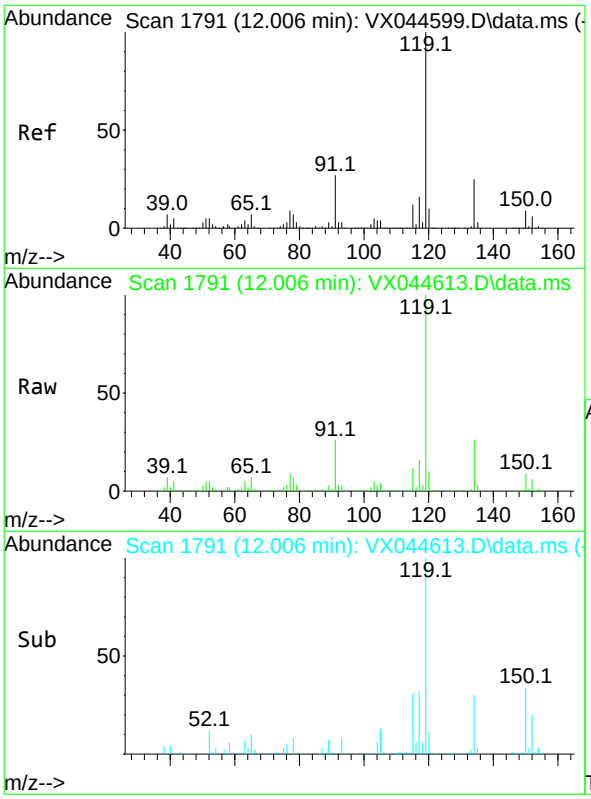
Ion	Ratio	Lower	Upper
105	100		
134	20.0	9.9	29.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

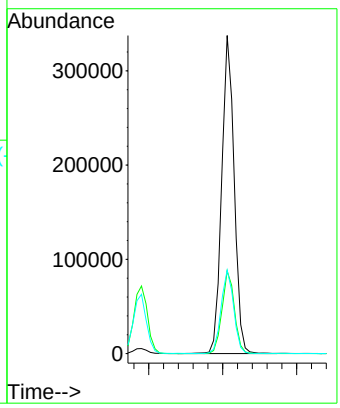
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

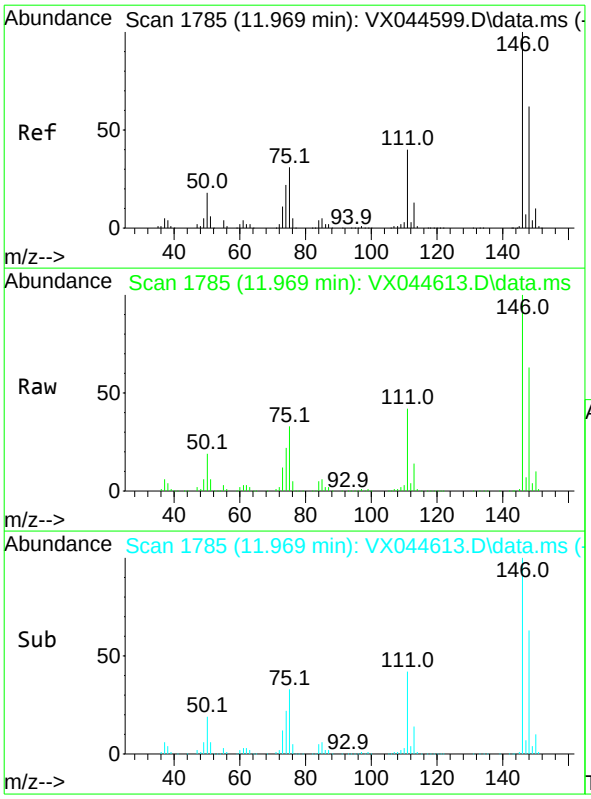


#86
p-Isopropyltoluene
Concen: 53.119 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion:119 Resp: 394724

Ion	Ratio	Lower	Upper
119	100		
134	25.7	12.6	37.8
91	26.3	13.1	39.1

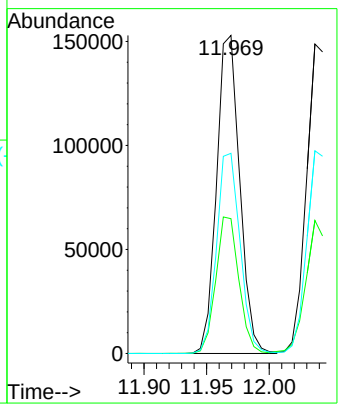




#87
1,3-Dichlorobenzene
Concen: 50.880 ug/l
RT: 11.969 min Scan# 17
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion:146 Resp: 196937

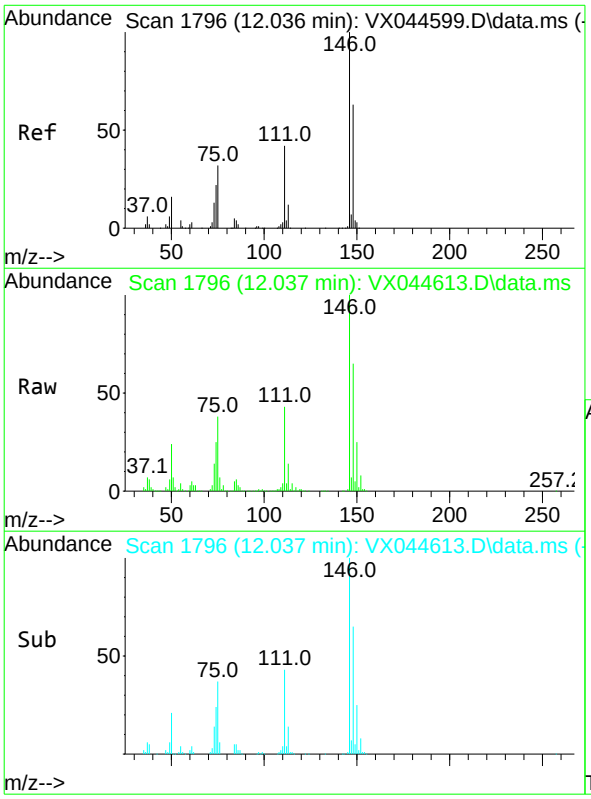
Ion	Ratio	Lower	Upper
146	100		
111	42.9	21.0	63.0
148	63.8	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

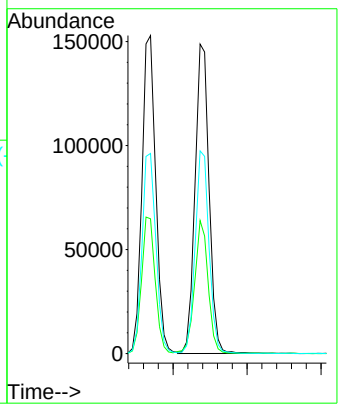
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

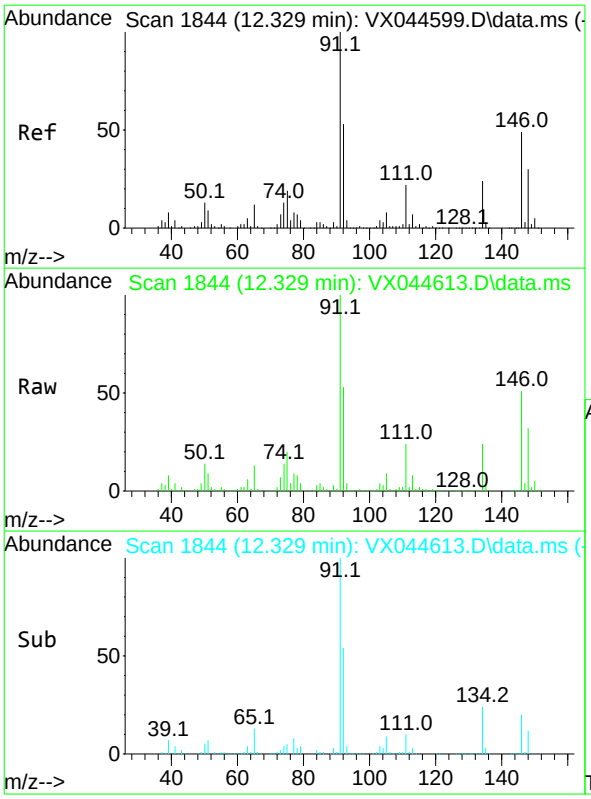


#88
1,4-Dichlorobenzene
Concen: 48.700 ug/l
RT: 12.037 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion:146 Resp: 196398

Ion	Ratio	Lower	Upper
146	100		
111	41.1	20.7	62.1
148	64.4	31.8	95.4

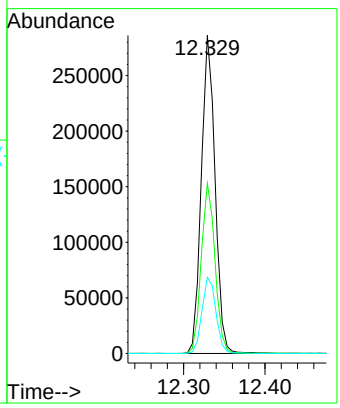




#89
n-Butylbenzene
Concen: 53.573 ug/l
RT: 12.329 min Scan# 18
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 91 Resp: 336155

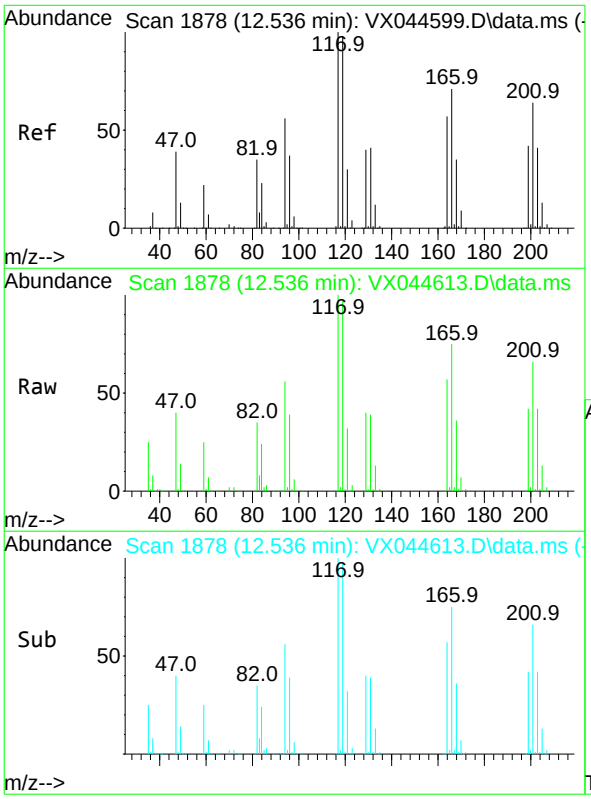
Ion	Ratio	Lower	Upper
91	100		
92	53.5	26.5	79.4
134	24.4	12.4	37.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

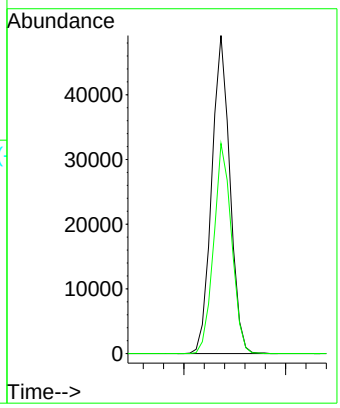
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

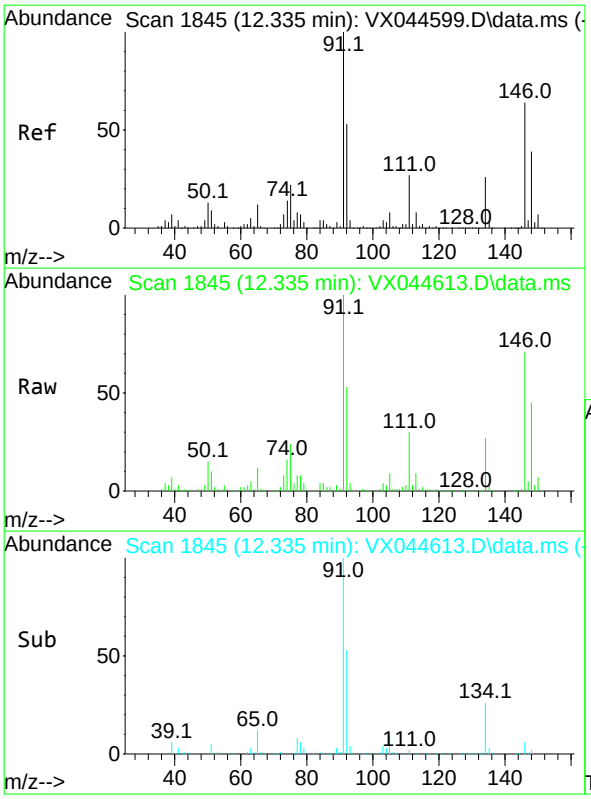


#90
Hexachloroethane
Concen: 51.076 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion:117 Resp: 60971

Ion	Ratio	Lower	Upper
117	100		
201	65.2	33.6	100.6

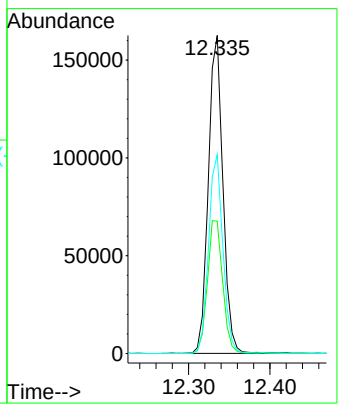




#91
1,2-Dichlorobenzene
Concen: 51.635 ug/l
RT: 12.335 min Scan# 18
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion:146 Resp: 201962

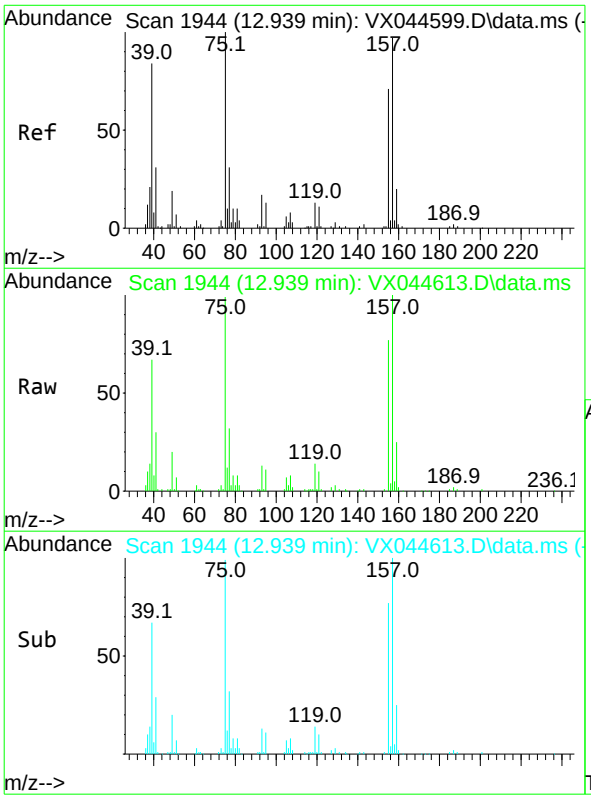
Ion	Ratio	Lower	Upper
146	100		
111	44.0	21.8	65.4
148	62.0	31.1	93.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

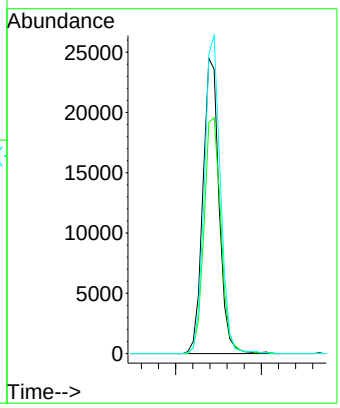
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

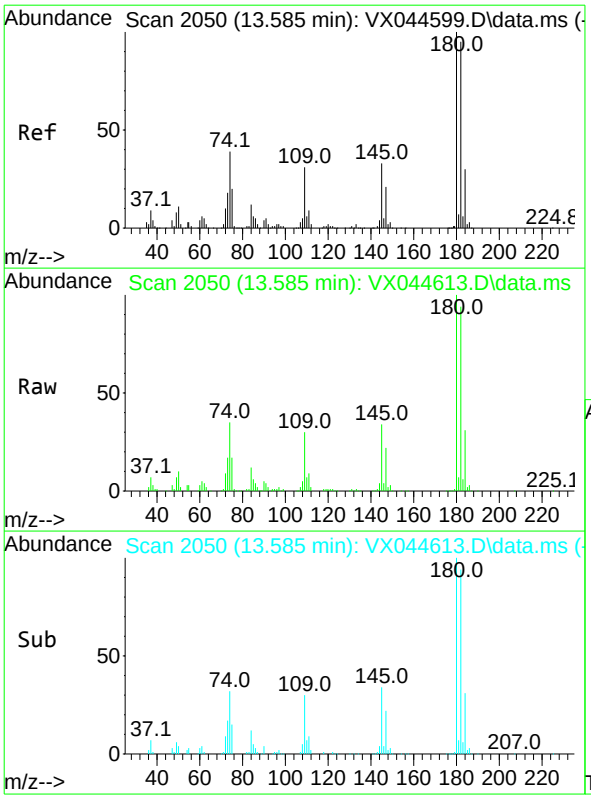


#92
1,2-Dibromo-3-Chloropropane
Concen: 59.698 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 75 Resp: 32131

Ion	Ratio	Lower	Upper
75	100		
155	83.6	37.4	112.1
157	106.3	48.0	144.2

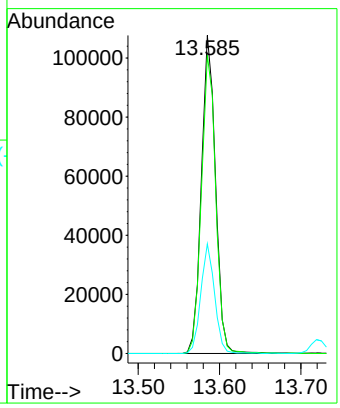




#93
1,2,4-Trichlorobenzene
Concen: 56.469 ug/l
RT: 13.585 min Scan# 20
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion:180 Resp: 129812

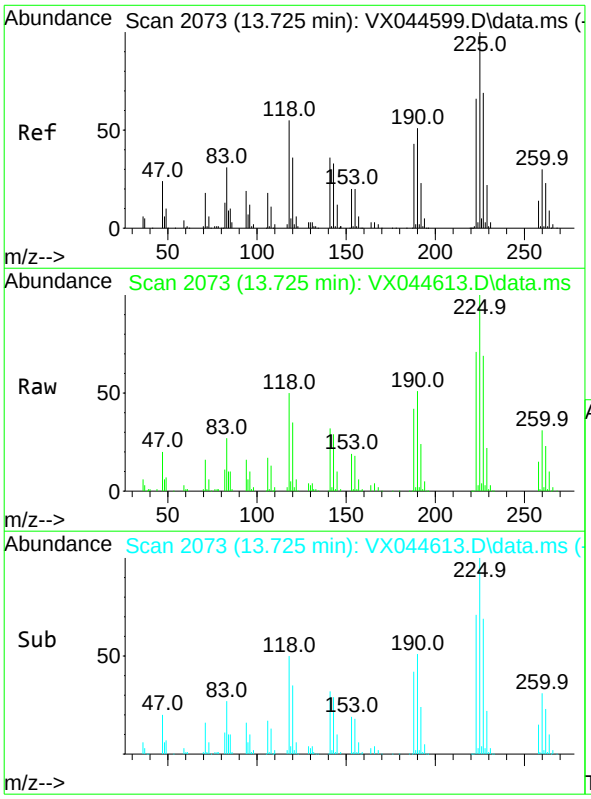
Ion	Ratio	Lower	Upper
180	100		
182	94.8	47.9	143.6
145	33.7	16.3	48.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

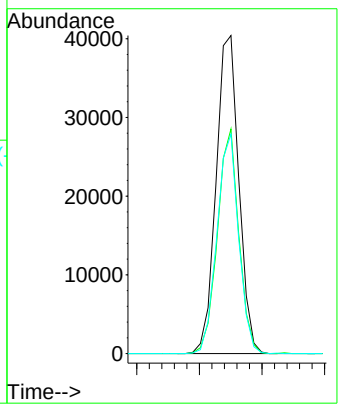
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

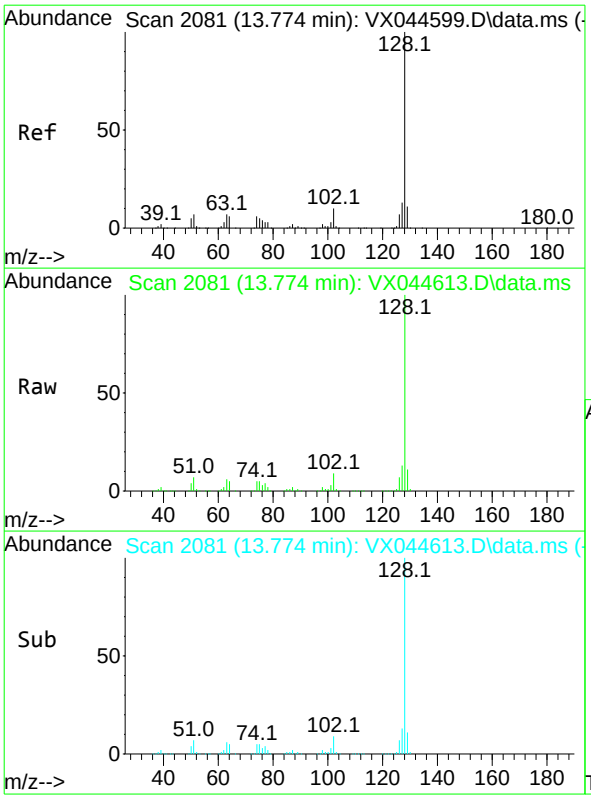


#94
Hexachlorobutadiene
Concen: 53.233 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion:225 Resp: 50956

Ion	Ratio	Lower	Upper
225	100		
223	66.3	31.6	94.8
227	65.7	31.9	95.9

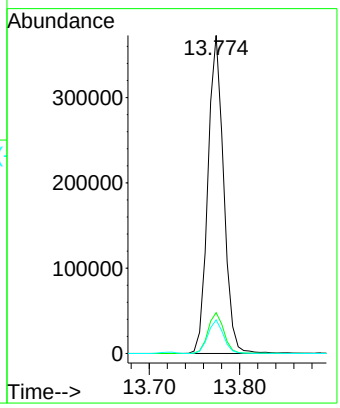




#95
Naphthalene
Concen: 60.764 ug/l
RT: 13.774 min Scan# 20
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion:128 Resp: 450708

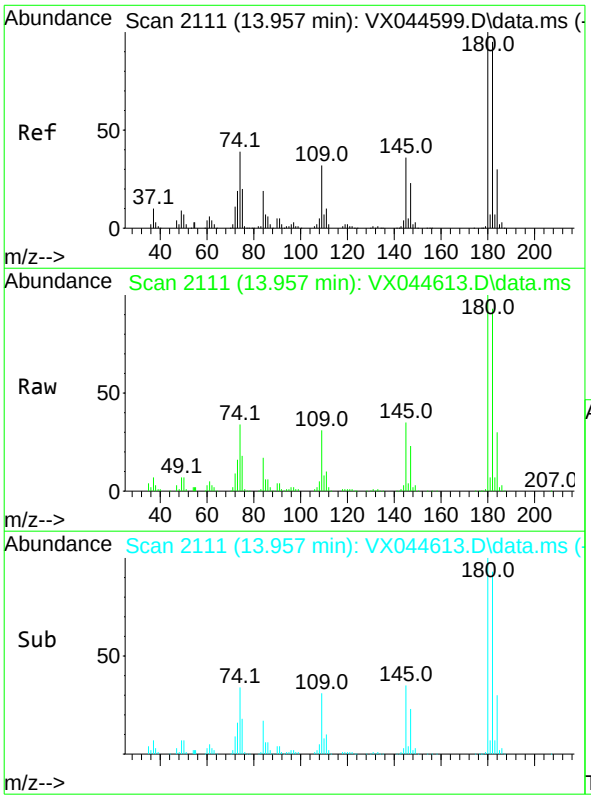
Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.5	15.7
129	10.4	8.6	13.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

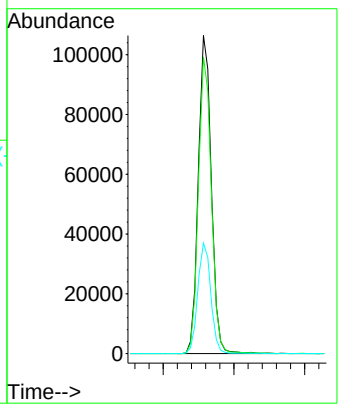
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025



#96
1,2,3-Trichlorobenzene
Concen: 57.677 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion:180 Resp: 135540

Ion	Ratio	Lower	Upper
180	100		
182	93.0	47.6	142.9
145	35.0	17.6	52.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044613.D
Acq On : 07 Jan 2025 19:37
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Jan 08 05:57:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 03:57:12 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	97	0.00
2	T	Dichlorodifluoromethane	0.723	0.801	-10.8	99	0.00
3	P	Chloromethane	0.721	0.767	-6.4	101	0.00
4	C	Vinyl Chloride	0.676	0.734	-8.6#	100	0.00
5	T	Bromomethane	0.350	0.372	-6.3	97	0.00
6	T	Chloroethane	0.387	0.385	0.5	115	0.00
7	T	Trichlorofluoromethane	1.007	1.105	-9.7	99	0.00
8	T	Diethyl Ether	0.356	0.400	-12.4	110	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.577	0.596	-3.3	98	0.00
10	T	Methyl Iodide	0.805	0.839	-4.2	100	0.00
11	T	Tert butyl alcohol	0.099	0.117	-18.2	112	-0.01
12	CM	1,1-Dichloroethene	0.559	0.569	-1.8#	98	0.00
13	T	Acrolein	0.131	0.161	-22.9	117	0.00
14	T	Allyl chloride	0.930	1.012	-8.8	97	0.00
15	T	Acrylonitrile	0.286	0.320	-11.9	101	0.00
16	T	Acetone	0.254	0.293	-15.4	103	0.00
17	T	Carbon Disulfide	1.157	1.242	-7.3	98	0.00
18	T	Methyl Acetate	0.750	0.835	-11.3	104	0.00
19	T	Methyl tert-butyl Ether	1.917	2.102	-9.7	99	0.00
20	T	Methylene Chloride	0.648	0.673	-3.9	99	0.00
21	T	trans-1,2-Dichloroethene	0.574	0.581	-1.2	97	0.00
22	T	Diisopropyl ether	1.912	2.110	-10.4	98	0.00
23	T	Vinyl Acetate	1.546	1.827	-18.2	99	0.00
24	P	1,1-Dichloroethane	1.114	1.187	-6.6	97	0.00
25	T	2-Butanone	0.367	0.441	-20.2	104	0.00
26	T	2,2-Dichloropropane	0.963	0.992	-3.0	95	0.00
27	T	cis-1,2-Dichloroethene	0.700	0.741	-5.9	98	0.00
28	T	Bromochloromethane	0.519	0.521	-0.4	92	0.00
29	T	Tetrahydrofuran	0.251	0.287	-14.3	105	0.00
30	C	Chloroform	1.201	1.263	-5.2#	97	0.00
31	T	Cyclohexane	0.915	0.950	-3.8	96	0.00
32	T	1,1,1-Trichloroethane	1.011	1.107	-9.5	98	0.00
33	S	1,2-Dichloroethane-d4	0.806	0.902	-11.9	107	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	99	0.00
35	S	Dibromofluoromethane	0.343	0.357	-4.1	105	0.00
36	T	1,1-Dichloropropene	0.443	0.461	-4.1	98	0.00
37	T	Ethyl Acetate	0.454	0.518	-14.1	104	0.00
38	T	Carbon Tetrachloride	0.492	0.508	-3.3	97	0.00
39	T	Methylcyclohexane	0.566	0.562	0.7	96	0.00
40	TM	Benzene	1.396	1.418	-1.6	97	0.00
41	T	Methacrylonitrile	0.243	0.294	-21.0	107	0.00
42	TM	1,2-Dichloroethane	0.546	0.602	-10.3	100	0.00
43	T	Isopropyl Acetate	0.748	0.838	-12.0	101	0.00
44	TM	Trichloroethene	0.357	0.344	3.6	98	0.00
45	C	1,2-Dichloropropane	0.340	0.353	-3.8#	97	0.00
46	T	Dibromomethane	0.265	0.276	-4.2	99	0.00
47	T	Bromodichloromethane	0.482	0.530	-10.0	100	0.00
48	T	Methyl methacrylate	0.357	0.420	-17.6	101	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044613.D
Acq On : 07 Jan 2025 19:37
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Jan 08 05:57:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 03:57:12 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	0.005	0.007	-40.0#	111	0.00
50	S	Toluene-d8	1.171	1.217	-3.9	104	0.00
51	T	4-Methyl-2-Pentanone	0.437	0.511	-16.9	103	0.00
52	CM	Toluene	0.842	0.870	-3.3#	98	0.00
53	T	t-1,3-Dichloropropene	0.460	0.511	-11.1	98	0.00
54	T	cis-1,3-Dichloropropene	0.517	0.555	-7.4	96	0.00
55	T	1,1,2-Trichloroethane	0.330	0.348	-5.5	100	0.00
56	T	Ethyl methacrylate	0.480	0.552	-15.0	100	0.00
57	T	1,3-Dichloropropane	0.554	0.592	-6.9	98	0.00
58	T	2-Chloroethyl Vinyl ether	0.238	0.265	-11.3	100	0.00
59	T	2-Hexanone	0.309	0.374	-21.0	103	0.00
60	T	Dibromochloromethane	0.329	0.365	-10.9	98	0.00
61	T	1,2-Dibromoethane	0.333	0.358	-7.5	101	0.00
62	S	4-Bromofluorobenzene	0.413	0.433	-4.8	103	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	97	0.00
64	T	Tetrachloroethene	0.354	0.336	5.1	95	0.00
65	PM	Chlorobenzene	1.061	1.087	-2.5	97	0.00
66	T	1,1,1,2-Tetrachloroethane	0.352	0.377	-7.1	99	0.00
67	C	Ethyl Benzene	1.822	1.948	-6.9#	98	0.00
68	T	m/p-Xylenes	0.670	0.721	-7.6	98	0.00
69	T	o-Xylene	0.676	0.707	-4.6	99	0.00
70	T	Styrene	1.081	1.185	-9.6	97	0.00
71	P	Bromoform	0.232	0.258	-11.2	102	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	98	0.00
73	T	Isopropylbenzene	3.704	3.898	-5.2	98	0.00
74	T	N-amyl acetate	1.503	1.785	-18.8	103	0.00
75	P	1,1,2,2-Tetrachloroethane	1.194	1.276	-6.9	100	0.00
76	T	1,2,3-Trichloropropane	1.002	1.079	-7.7	102	0.00
77	T	Bromobenzene	0.900	0.936	-4.0	99	0.00
78	T	n-propylbenzene	4.172	4.435	-6.3	97	0.00
79	T	2-Chlorotoluene	2.704	2.753	-1.8	97	0.00
80	T	1,3,5-Trimethylbenzene	3.071	3.277	-6.7	97	0.00
81	T	trans-1,4-Dichloro-2-butene	0.329	0.363	-10.3	100	0.00
82	T	4-Chlorotoluene	3.042	3.165	-4.0	97	0.00
83	T	tert-Butylbenzene	3.058	3.244	-6.1	99	0.00
84	T	1,2,4-Trimethylbenzene	3.085	3.303	-7.1	98	0.00
85	T	sec-Butylbenzene	3.725	3.892	-4.5	97	0.00
86	T	p-Isopropyltoluene	3.125	3.320	-6.2	97	0.00
87	T	1,3-Dichlorobenzene	1.628	1.657	-1.8	96	0.00
88	T	1,4-Dichlorobenzene	1.696	1.652	2.6	96	0.00
89	T	n-Butylbenzene	2.639	2.828	-7.2	95	0.00
90	T	Hexachloroethane	0.502	0.513	-2.2	97	0.00
91	T	1,2-Dichlorobenzene	1.645	1.699	-3.3	98	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.226	0.270	-19.5	107	0.00
93	T	1,2,4-Trichlorobenzene	0.967	1.092	-12.9	108	0.00
94	T	Hexachlorobutadiene	0.403	0.429	-6.5	103	0.00
95	T	Naphthalene	3.120	3.791	-21.5	109	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044613.D
Acq On : 07 Jan 2025 19:37
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Jan 08 05:57:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 03:57:12 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.988	1.140	-15.4	110	0.00

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044613.D
Acq On : 07 Jan 2025 19:37
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Jan 08 05:57:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 03:57:12 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	97	0.00
2	T	Dichlorodifluoromethane	50.000	55.337	-10.7	99	0.00
3	P	Chloromethane	50.000	53.178	-6.4	101	0.00
4	C	Vinyl Chloride	50.000	54.253	-8.5#	100	0.00
5	T	Bromomethane	50.000	53.125	-6.3	97	0.00
6	T	Chloroethane	50.000	49.799	0.4	115	0.00
7	T	Trichlorofluoromethane	50.000	54.842	-9.7	99	0.00
8	T	Diethyl Ether	50.000	56.153	-12.3	110	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	51.646	-3.3	98	0.00
10	T	Methyl Iodide	50.000	52.097	-4.2	100	0.00
11	T	Tert butyl alcohol	250.000	294.641	-17.9	112	-0.01
12	CM	1,1-Dichloroethene	50.000	50.866	-1.7#	98	0.00
13	T	Acrolein	250.000	306.047	-22.4	117	0.00
14	T	Allyl chloride	50.000	54.415	-8.8	97	0.00
15	T	Acrylonitrile	250.000	280.157	-12.1	101	0.00
16	T	Acetone	250.000	288.715	-15.5	103	0.00
17	T	Carbon Disulfide	50.000	53.692	-7.4	98	0.00
18	T	Methyl Acetate	50.000	55.654	-11.3	104	0.00
19	T	Methyl tert-butyl Ether	50.000	54.815	-9.6	99	0.00
20	T	Methylene Chloride	50.000	51.920	-3.8	99	0.00
21	T	trans-1,2-Dichloroethene	50.000	50.624	-1.2	97	0.00
22	T	Diisopropyl ether	50.000	55.179	-10.4	98	0.00
23	T	Vinyl Acetate	250.000	295.397	-18.2	99	0.00
24	P	1,1-Dichloroethane	50.000	53.250	-6.5	97	0.00
25	T	2-Butanone	250.000	300.736	-20.3	104	0.00
26	T	2,2-Dichloropropane	50.000	51.490	-3.0	95	0.00
27	T	cis-1,2-Dichloroethene	50.000	52.916	-5.8	98	0.00
28	T	Bromochloromethane	50.000	50.249	-0.5	92	0.00
29	T	Tetrahydrofuran	250.000	286.076	-14.4	105	0.00
30	C	Chloroform	50.000	52.559	-5.1#	97	0.00
31	T	Cyclohexane	50.000	51.894	-3.8	96	0.00
32	T	1,1,1-Trichloroethane	50.000	54.744	-9.5	98	0.00
33	S	1,2-Dichloroethane-d4	50.000	55.942	-11.9	107	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	99	0.00
35	S	Dibromofluoromethane	50.000	52.065	-4.1	105	0.00
36	T	1,1-Dichloropropene	50.000	52.027	-4.1	98	0.00
37	T	Ethyl Acetate	50.000	57.053	-14.1	104	0.00
38	T	Carbon Tetrachloride	50.000	51.595	-3.2	97	0.00
39	T	Methylcyclohexane	50.000	49.669	0.7	96	0.00
40	TM	Benzene	50.000	50.785	-1.6	97	0.00
41	T	Methacrylonitrile	50.000	60.464	-20.9	107	0.00
42	TM	1,2-Dichloroethane	50.000	55.178	-10.4	100	0.00
43	T	Isopropyl Acetate	50.000	56.022	-12.0	101	0.00
44	TM	Trichloroethene	50.000	48.261	3.5	98	0.00
45	C	1,2-Dichloropropane	50.000	51.880	-3.8#	97	0.00
46	T	Dibromomethane	50.000	52.190	-4.4	99	0.00
47	T	Bromodichloromethane	50.000	54.997	-10.0	100	0.00
48	T	Methyl methacrylate	50.000	58.879	-17.8	101	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044613.D
Acq On : 07 Jan 2025 19:37
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Jan 08 05:57:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 03:57:12 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	1249.198	-24.9	111	0.00
50	S	Toluene-d8	50.000	51.967	-3.9	104	0.00
51	T	4-Methyl-2-Pentanone	250.000	292.284	-16.9	103	0.00
52	CM	Toluene	50.000	51.653	-3.3#	98	0.00
53	T	t-1,3-Dichloropropene	50.000	55.515	-11.0	98	0.00
54	T	cis-1,3-Dichloropropene	50.000	53.656	-7.3	96	0.00
55	T	1,1,2-Trichloroethane	50.000	52.771	-5.5	100	0.00
56	T	Ethyl methacrylate	50.000	57.469	-14.9	100	0.00
57	T	1,3-Dichloropropane	50.000	53.383	-6.8	98	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	278.235	-11.3	100	0.00
59	T	2-Hexanone	250.000	302.247	-20.9	103	0.00
60	T	Dibromochloromethane	50.000	55.427	-10.9	98	0.00
61	T	1,2-Dibromoethane	50.000	53.635	-7.3	101	0.00
62	S	4-Bromofluorobenzene	50.000	52.415	-4.8	103	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	97	0.00
64	T	Tetrachloroethene	50.000	47.587	4.8	95	0.00
65	PM	Chlorobenzene	50.000	51.238	-2.5	97	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	53.429	-6.9	99	0.00
67	C	Ethyl Benzene	50.000	53.443	-6.9#	98	0.00
68	T	m/p-Xylenes	100.000	107.604	-7.6	98	0.00
69	T	o-Xylene	50.000	52.289	-4.6	99	0.00
70	T	Styrene	50.000	54.813	-9.6	97	0.00
71	P	Bromoform	50.000	52.026	-4.1	102	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	98	0.00
73	T	Isopropylbenzene	50.000	52.618	-5.2	98	0.00
74	T	N-amyl acetate	50.000	59.395	-18.8	103	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	53.439	-6.9	100	0.00
76	T	1,2,3-Trichloropropane	50.000	53.831	-7.7	102	0.00
77	T	Bromobenzene	50.000	51.994	-4.0	99	0.00
78	T	n-propylbenzene	50.000	53.141	-6.3	97	0.00
79	T	2-Chlorotoluene	50.000	50.916	-1.8	97	0.00
80	T	1,3,5-Trimethylbenzene	50.000	53.347	-6.7	97	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	55.176	-10.4	100	0.00
82	T	4-Chlorotoluene	50.000	52.030	-4.1	97	0.00
83	T	tert-Butylbenzene	50.000	53.037	-6.1	99	0.00
84	T	1,2,4-Trimethylbenzene	50.000	53.535	-7.1	98	0.00
85	T	sec-Butylbenzene	50.000	52.250	-4.5	97	0.00
86	T	p-Isopropyltoluene	50.000	53.119	-6.2	97	0.00
87	T	1,3-Dichlorobenzene	50.000	50.880	-1.8	96	0.00
88	T	1,4-Dichlorobenzene	50.000	48.700	2.6	96	0.00
89	T	n-Butylbenzene	50.000	53.573	-7.1	95	0.00
90	T	Hexachloroethane	50.000	51.076	-2.2	97	0.00
91	T	1,2-Dichlorobenzene	50.000	51.635	-3.3	98	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	59.698	-19.4	107	0.00
93	T	1,2,4-Trichlorobenzene	50.000	56.469	-12.9	108	0.00
94	T	Hexachlorobutadiene	50.000	53.233	-6.5	103	0.00
95	T	Naphthalene	50.000	60.764	-21.5	109	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044613.D
Acq On : 07 Jan 2025 19:37
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Jan 08 05:57:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 03:57:12 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	57.677	-15.4	110	0.00

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

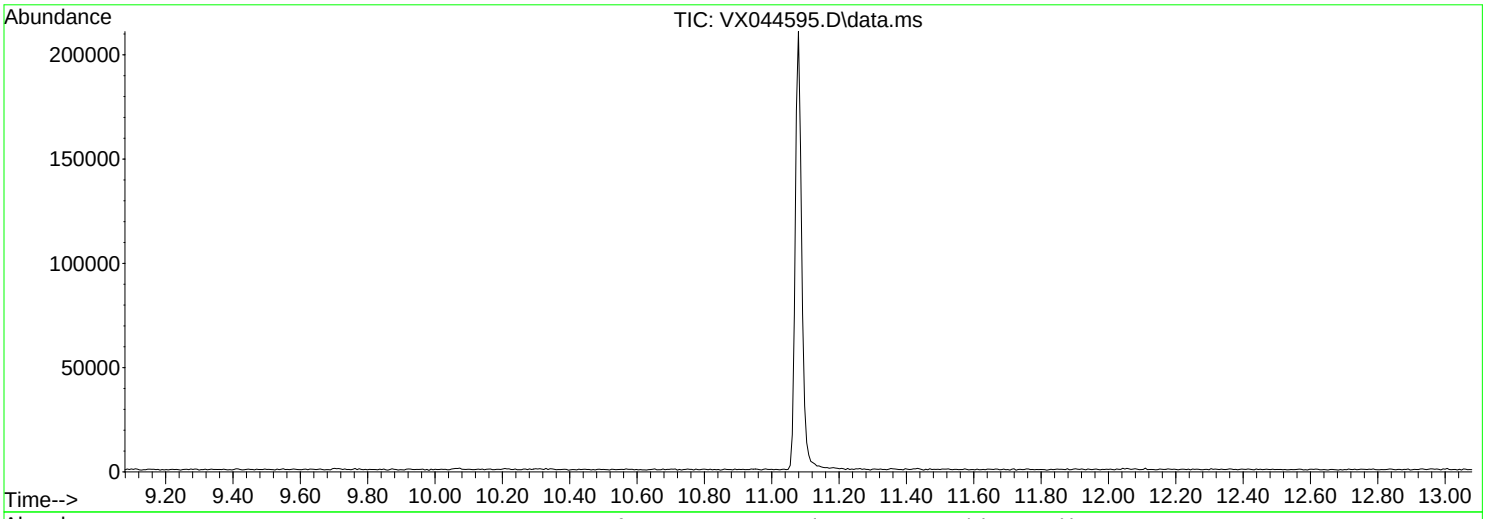
QC SAMPLE DATA

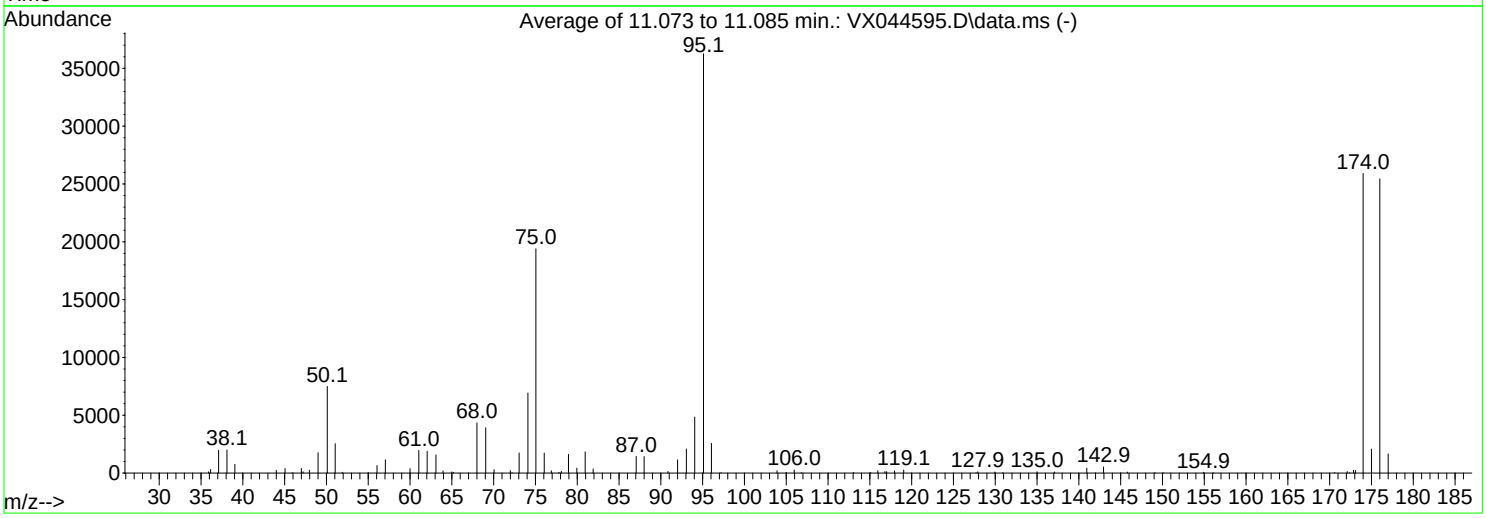
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044595.D
Acq On : 07 Jan 2025 09:14
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Title : SW846 8260
Last Update : Wed Jan 08 03:57:12 2025





AutoFind: Scans 1638, 1639, 1640; Background Corrected with Scan 1632

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.7	7495	PASS
75	95	30	60	53.5	19386	PASS
95	95	100	100	100.0	36261	PASS
96	95	5	9	7.1	2567	PASS
173	174	0.00	2	1.0	251	PASS
174	95	50	100	71.5	25909	PASS
175	174	5	9	8.0	2077	PASS
176	174	95	101	98.2	25445	PASS
177	176	5	9	6.5	1661	PASS

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:	CTO WE13	Date Received:	
Client Sample ID:	VX0107WBL01	SDG No.:	Q1022
Lab Sample ID:	VX0107WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044604.D	1		01/07/25 16:06	VX010725

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

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:	CTO WE13	Date Received:	
Client Sample ID:	VX0107WBL01	SDG No.:	Q1022
Lab Sample ID:	VX0107WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044604.D	1		01/07/25 16:06	VX010725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	50.6		81 - 118		101%	SPK: 50
1868-53-7	Dibromofluoromethane	47.1		80 - 119		94%	SPK: 50
2037-26-5	Toluene-d8	49.5		89 - 112		99%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.6		85 - 114		95%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	174000	5.544				
540-36-3	1,4-Difluorobenzene	316000	6.751				
3114-55-4	Chlorobenzene-d5	271000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	109000	12.018				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044604.D
Acq On : 07 Jan 2025 16:06
Operator : JC/MD
Sample : VX0107WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBL01

Quant Time: Jan 08 05:53:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 03:57:12 2025
Response via : Initial Calibration

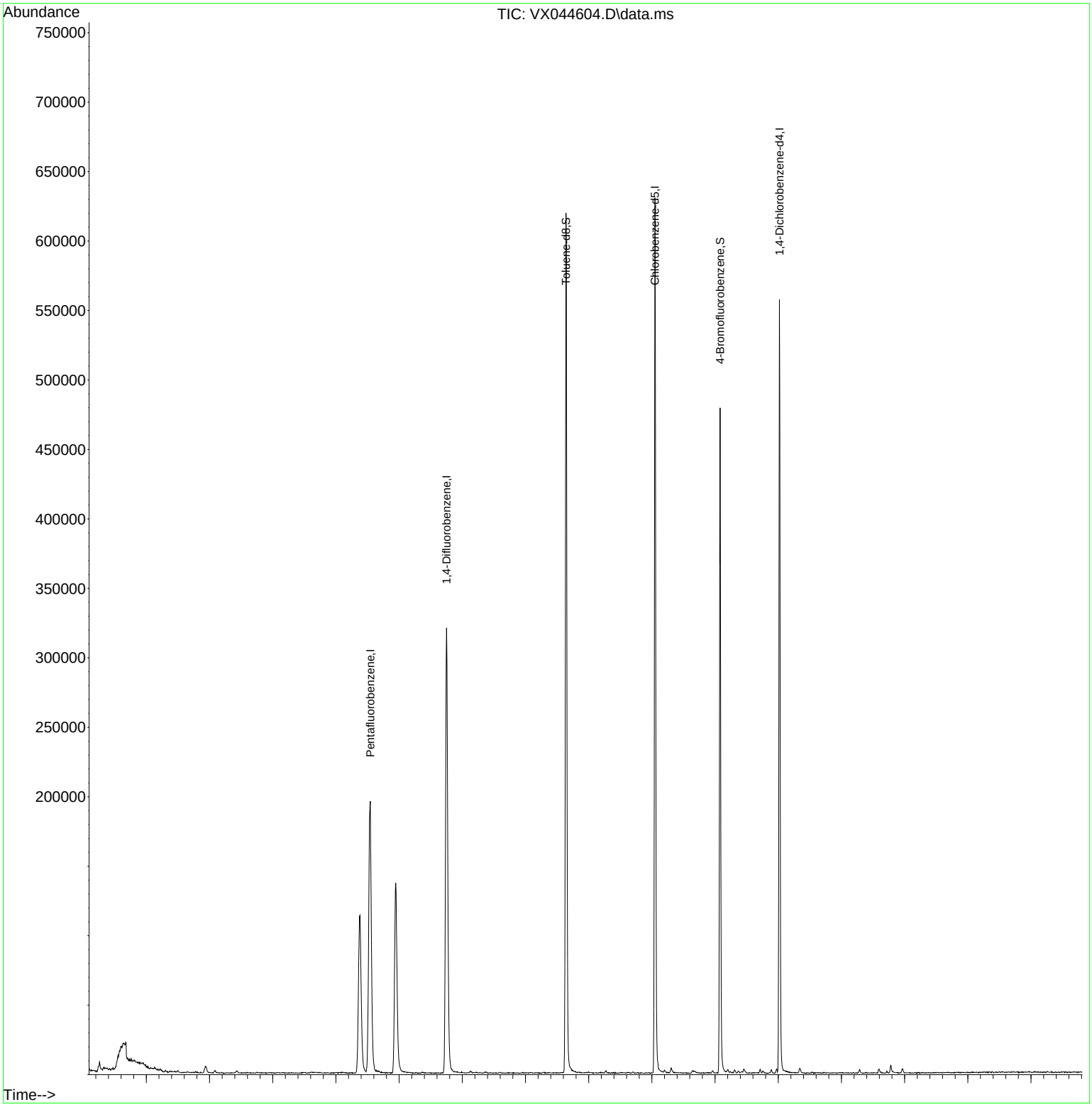
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	173540	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	316021	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	270881	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	109213	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	141681	50.634	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 101.260%			
35) Dibromofluoromethane	5.379	113	102020	47.079	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 94.160%			
50) Toluene-d8	8.641	98	366480	49.511	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.020%			
62) 4-Bromofluorobenzene	11.079	95	124484	47.647	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 95.300%			
Target Compounds						Qvalue

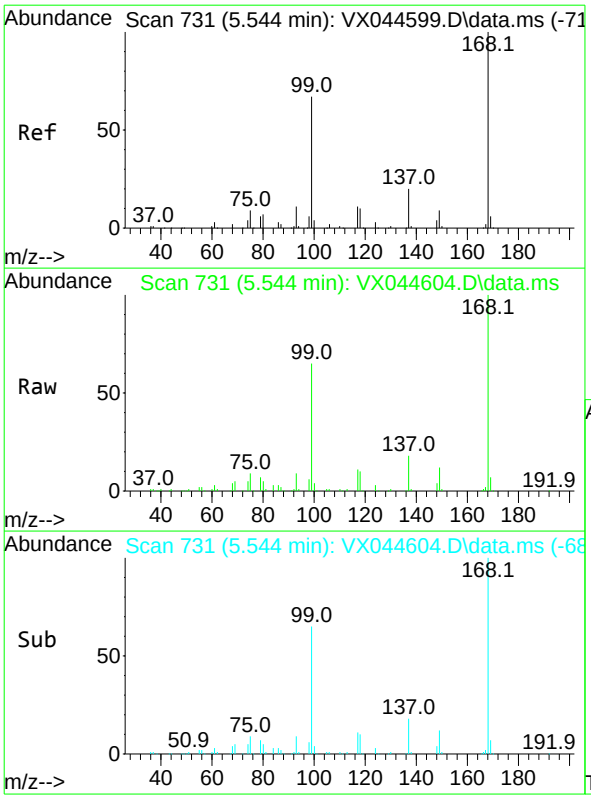
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044604.D
Acq On : 07 Jan 2025 16:06
Operator : JC/MD
Sample : VX0107WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBL01

Quant Time: Jan 08 05:53:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 03:57:12 2025
Response via : Initial Calibration



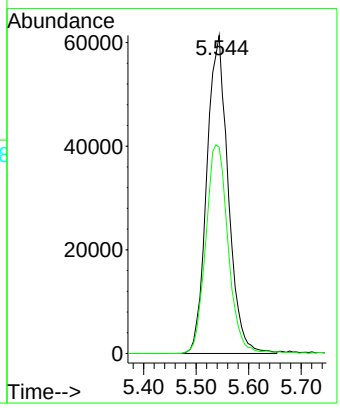


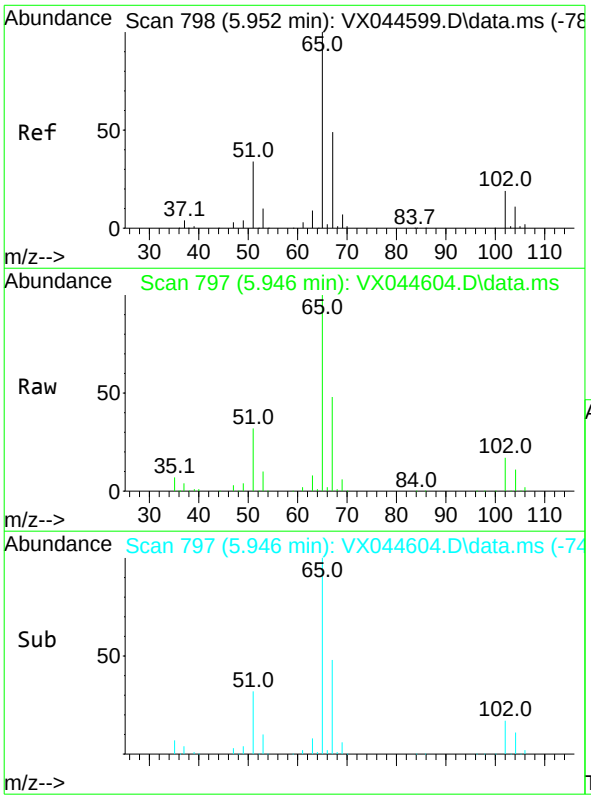
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 73
Delta R.T. -0.000 min
Lab File: VX044604.D
Acq: 07 Jan 2025 16:06

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBL01

Tgt Ion:168 Resp: 173540

Ion	Ratio	Lower	Upper
168	100		
99	64.8	53.5	80.3

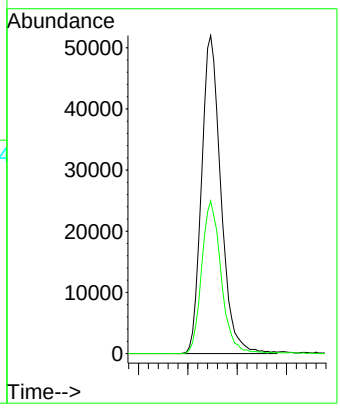


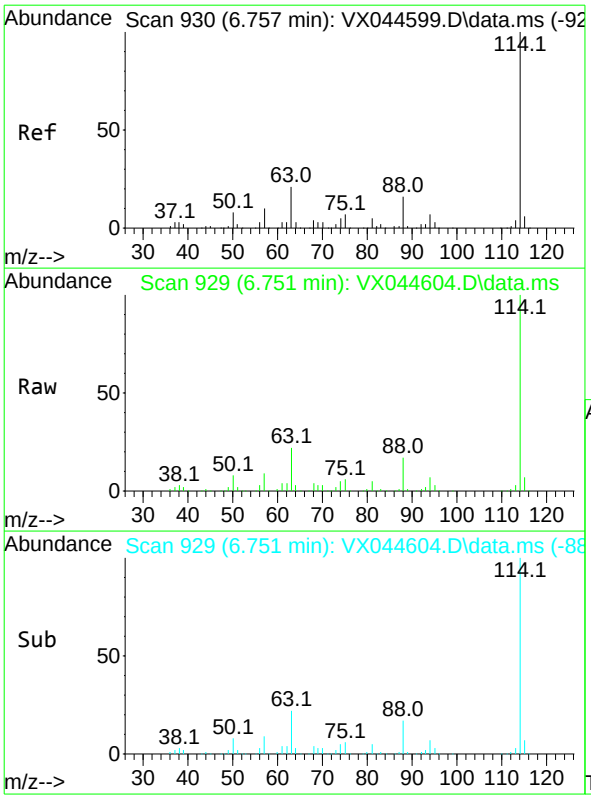


#33
1,2-Dichloroethane-d4
Concen: 50.634 ug/l
RT: 5.946 min Scan# 797
Delta R.T. -0.006 min
Lab File: VX044604.D
Acq: 07 Jan 2025 16:06

Tgt Ion: 65 Resp: 141681

Ion	Ratio	Lower	Upper
65	100		
67	48.2	0.0	99.0



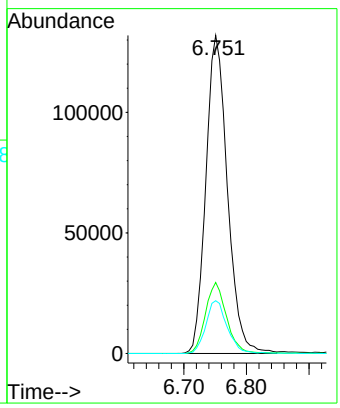


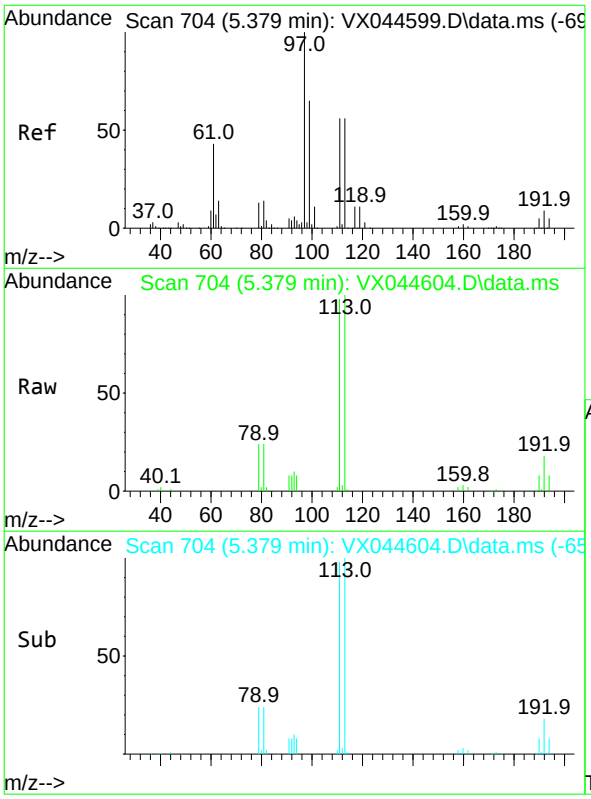
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 92
Delta R.T. -0.006 min
Lab File: VX044604.D
Acq: 07 Jan 2025 16:06

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBL01

Tgt Ion:114 Resp: 316021

Ion	Ratio	Lower	Upper
114	100		
63	22.3	0.0	42.6
88	16.6	0.0	32.6

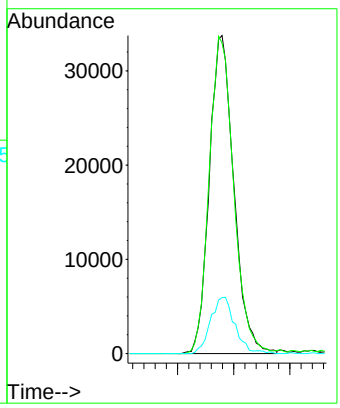


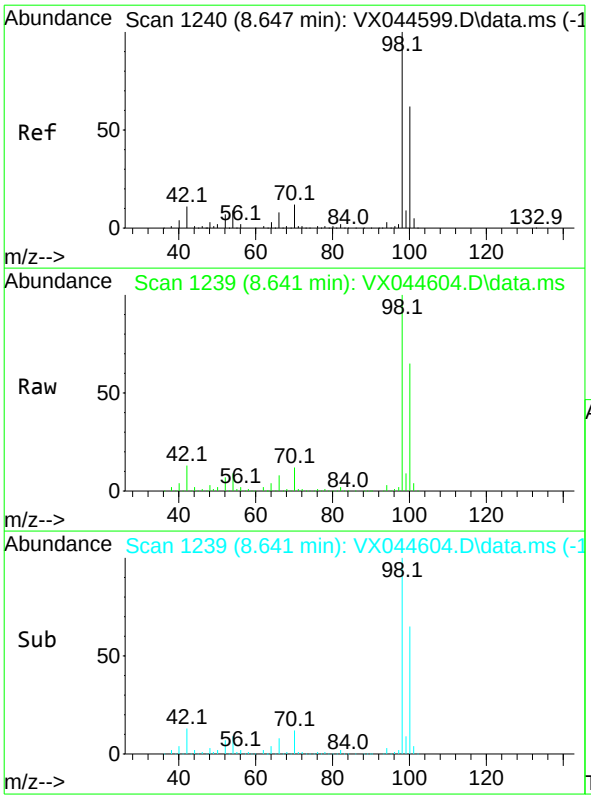


#35
Dibromofluoromethane
Concen: 47.079 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.000 min
Lab File: VX044604.D
Acq: 07 Jan 2025 16:06

Tgt Ion:113 Resp: 102020

Ion	Ratio	Lower	Upper
113	100		
111	99.7	83.3	124.9
192	17.7	14.3	21.5



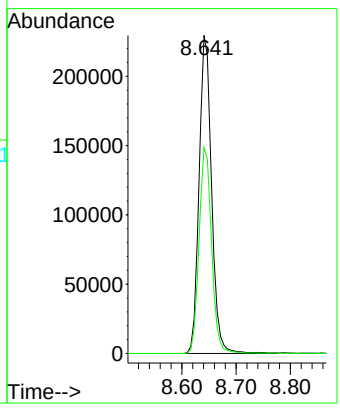


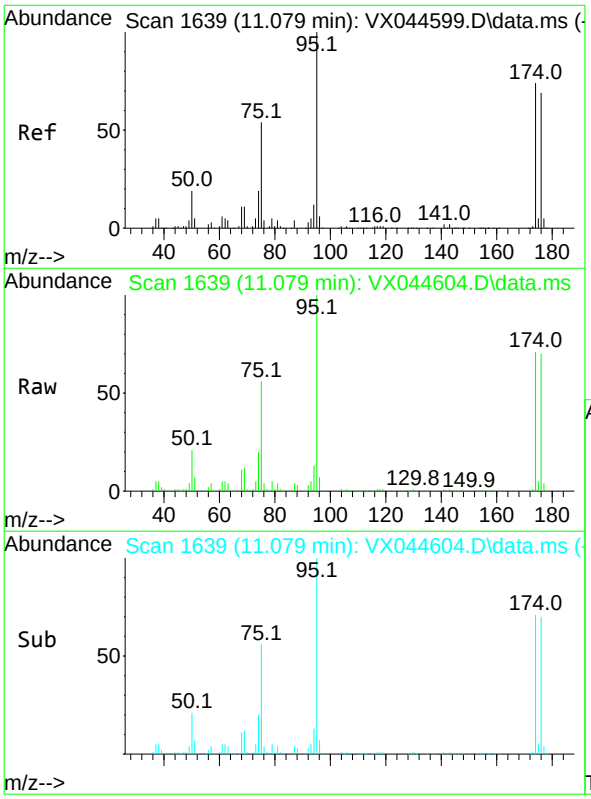
#50
Toluene-d8
Concen: 49.511 ug/l
RT: 8.641 min Scan# 12
Delta R.T. -0.006 min
Lab File: VX044604.D
Acq: 07 Jan 2025 16:06

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBL01

Tgt Ion: 98 Resp: 366480

Ion	Ratio	Lower	Upper
98	100		
100	64.9	52.5	78.7

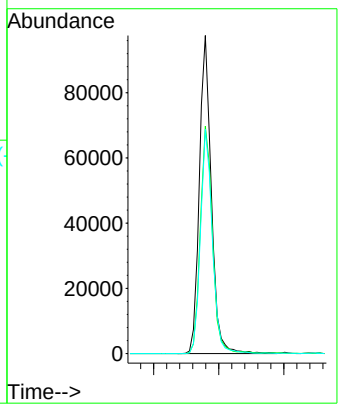


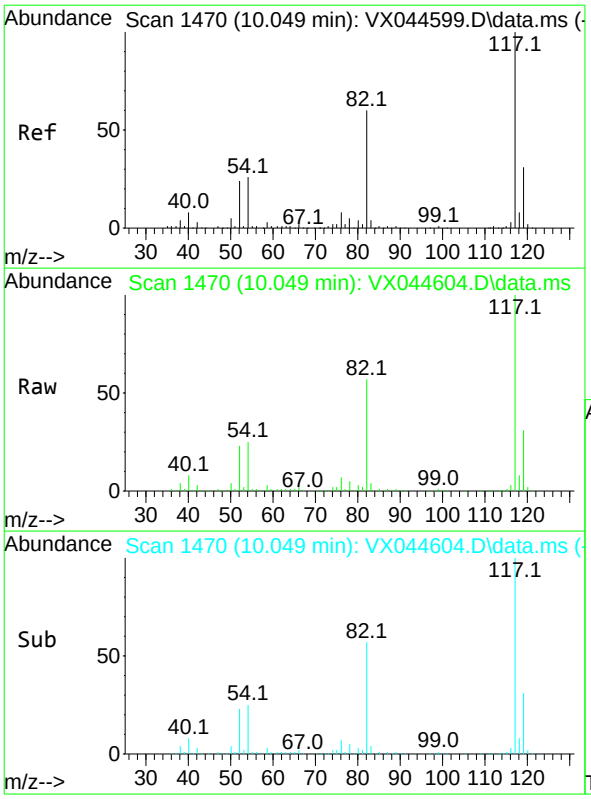


#62
4-Bromofluorobenzene
Concen: 47.647 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044604.D
Acq: 07 Jan 2025 16:06

Tgt Ion: 95 Resp: 124484

Ion	Ratio	Lower	Upper
95	100		
174	72.5	0.0	148.8
176	69.9	0.0	139.8



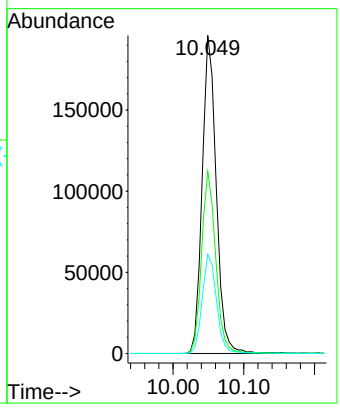


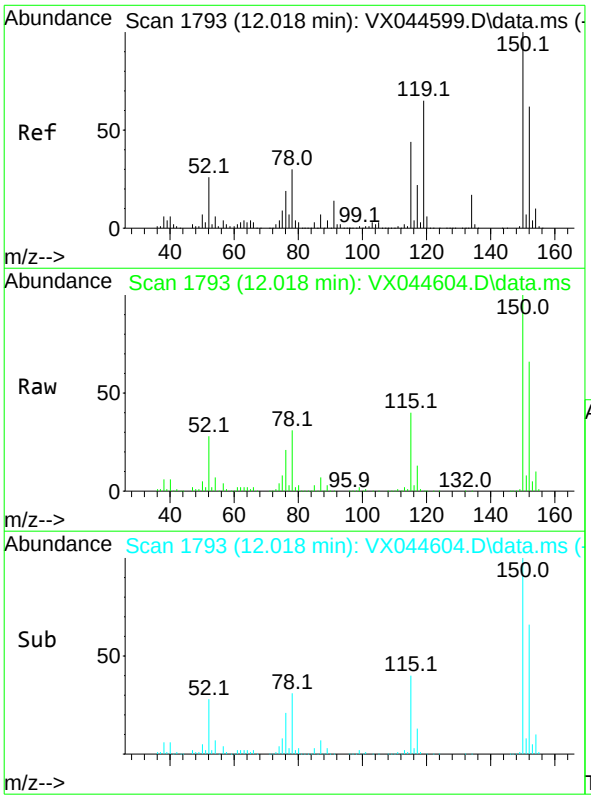
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044604.D
Acq: 07 Jan 2025 16:06

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBL01

Tgt Ion:117 Resp: 270881

Ion	Ratio	Lower	Upper
117	100		
82	57.2	47.8	71.6
119	31.1	25.0	37.6

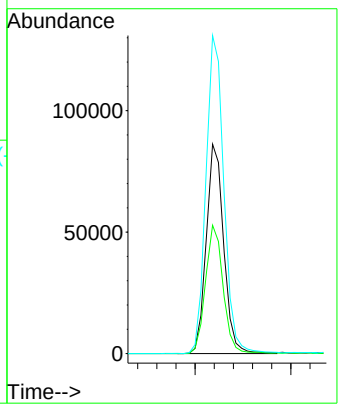




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044604.D
Acq: 07 Jan 2025 16:06

Tgt Ion:152 Resp: 109213

Ion	Ratio	Lower	Upper
152	100		
115	62.0	44.4	133.1
150	155.9	0.0	355.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044604.D
Acq On : 07 Jan 2025 16:06
Operator : JC/MD
Sample : VX0107WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBL01

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\82X010725W.M
Title : SW846 8260

Signal : TIC: VX044604.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.258	22	28	33	rBV3	6878	13406	1.34%	0.253%
2	1.551	68	76	77	rBV6	9508	16256	1.63%	0.307%
3	2.935	295	303	312	rBV4	4858	12161	1.22%	0.229%
4	5.379	691	704	720	rBV2	113546	345727	34.65%	6.520%
5	5.544	720	731	745	rVV2	194800	564128	56.54%	10.639%
6	5.946	788	797	814	rBV2	136811	373865	37.47%	7.051%
7	6.751	919	929	945	rBV	320436	769610	77.14%	14.514%
8	8.641	1233	1239	1256	rBV	618650	997675	100.00%	18.815%
9	10.049	1465	1470	1483	rBV	629577	873137	87.52%	16.466%
10	11.079	1633	1639	1653	rBV	478947	614080	61.55%	11.581%
11	12.018	1788	1793	1808	rBV	555997	711767	71.34%	13.423%
12	13.780	2076	2082	2091	rBV3	5688	10698	1.07%	0.202%

Sum of corrected areas: 5302510

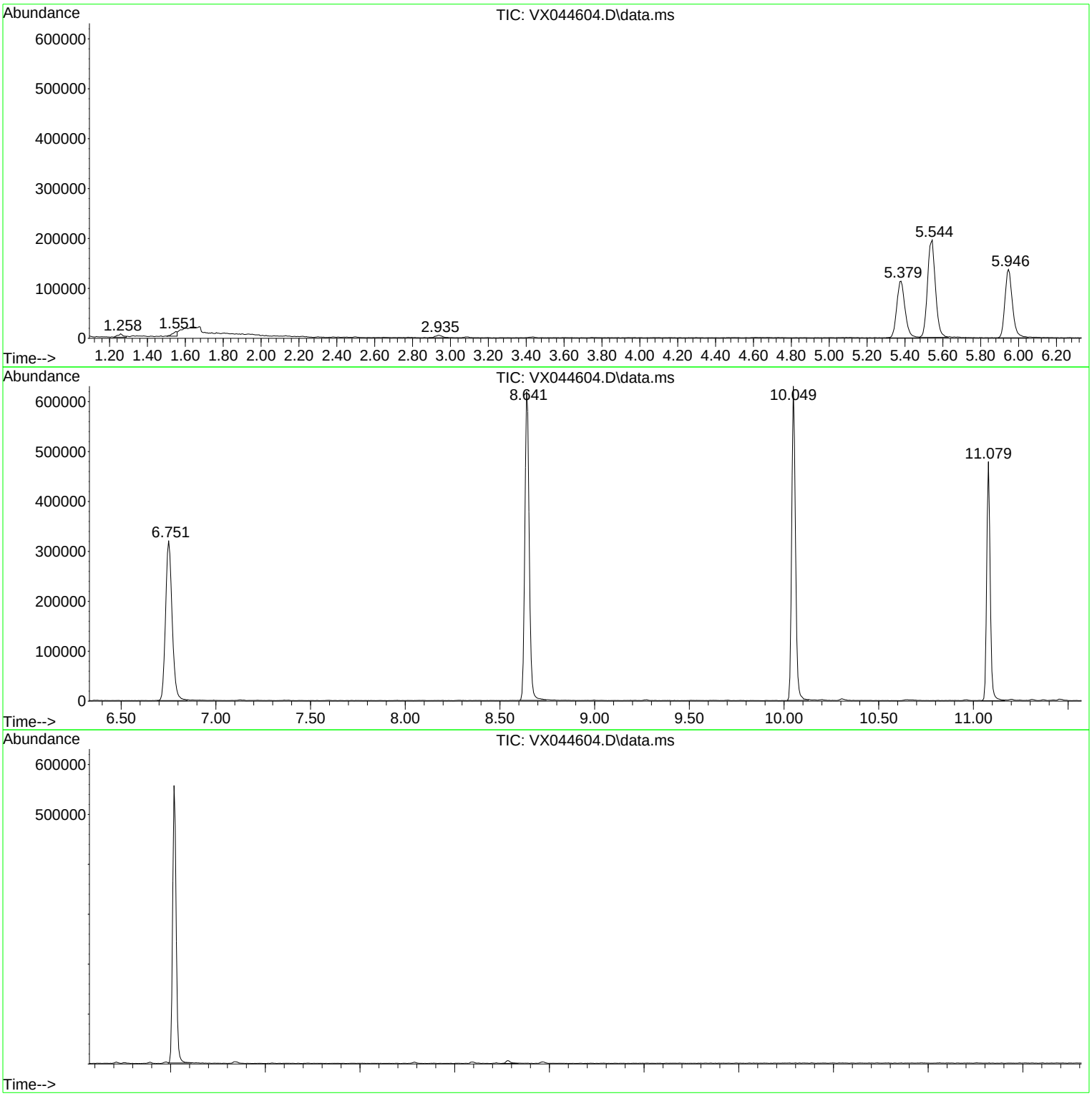
Sample Results: **VX044604.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044604.D
Acq On : 07 Jan 2025 16:06
Operator : JC/MD
Sample : VX0107WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044604.D
Acq On : 07 Jan 2025 16:06
Operator : JC/MD
Sample : VX0107WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected
****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044604.D
Acq On : 07 Jan 2025 16:06
Operator : JC/MD
Sample : VX0107WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.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

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:	CTO WE13	Date Received:	
Client Sample ID:	VX0107WBS02	SDG No.:	Q1022
Lab Sample ID:	VX0107WBS02	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044606.D	1		01/07/25 16:57	VX010725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	17.3		0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	18.2		0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	18.0		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	17.6		0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	19.5		0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	18.4		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	17.7		0.26	0.75	1.00	ug/L
67-64-1	Acetone	110		1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	17.6		0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	18.8		0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	17.5		0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	17.8		0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	18.0		0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	110		1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	17.9		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	17.6		0.25	0.75	1.00	ug/L
67-66-3	Chloroform	17.8		0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	18.9		0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	18.7		0.19	0.50	1.00	ug/L
71-43-2	Benzene	17.6		0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	18.9		0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	16.8		0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	18.0		0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	18.6		0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	100		0.75	2.50	5.00	ug/L
108-88-3	Toluene	18.4		0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	19.3		0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	18.6		0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	18.3		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	110		1.10	2.50	5.00	ug/L

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:	CTO WE13	Date Received:	
Client Sample ID:	VX0107WBS02	SDG No.:	Q1022
Lab Sample ID:	VX0107WBS02	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044606.D	1		01/07/25 16:57	VX010725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	18.4		0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	17.3		0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	18.3		0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	18.8		0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	38.0		0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	18.3		0.14	0.50	1.00	ug/L
100-42-5	Styrene	18.9		0.16	0.50	1.00	ug/L
75-25-2	Bromoform	17.8		0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	17.2		0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	17.1		0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	18.5		0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	17.8		0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	18.3		0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	50.2		81 - 118		100%	SPK: 50
1868-53-7	Dibromofluoromethane	48.5		80 - 119		97%	SPK: 50
2037-26-5	Toluene-d8	49.3		89 - 112		99%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.5		85 - 114		101%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	221000	5.538				
540-36-3	1,4-Difluorobenzene	377000	6.751				
3114-55-4	Chlorobenzene-d5	324000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	167000	12.018				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044606.D
Acq On : 07 Jan 2025 16:57
Operator : JC/MD
Sample : VX0107WBS02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jan 08 05:55:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 03:57:12 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Manual Integrations APPROVED

Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.538	168	220733	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	377450	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	324333	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	167120	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	178695	50.209	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 100.420%			
35) Dibromofluoromethane	5.379	113	125576	48.518	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 97.040%			
50) Toluene-d8	8.641	98	435468	49.256	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 98.520%			
62) 4-Bromofluorobenzene	11.079	95	157465	50.462	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 100.920%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	60506	18.945	ug/l	97
3) Chloromethane	1.295	50	55002	17.282	ug/l	97
4) Vinyl Chloride	1.374	62	54350	18.203	ug/l	99
5) Bromomethane	1.593	94	27787	17.967	ug/l	98
6) Chloroethane	1.666	64	30070	17.605	ug/l	98
7) Trichlorofluoromethane	1.874	101	86604	19.480	ug/l	92
8) Diethyl Ether	2.130	74	32020	20.384	ug/l	91
9) 1,1,2-Trichlorotrifluo...	2.319	101	46890	18.396	ug/l	98
10) Methyl Iodide	2.447	142	59649	16.782	ug/l	99
11) Tert butyl alcohol	2.983	59	44363	101.228	ug/l	99
12) 1,1-Dichloroethene	2.313	96	43673	17.686	ug/l	96
13) Acrolein	2.233	56	54760	94.504	ug/l	96
14) Allyl chloride	2.660	41	74088	18.040	ug/l	98
15) Acrylonitrile	3.062	53	124308	98.487	ug/l	99
16) Acetone	2.380	43	123615	110.199	ug/l	99
17) Carbon Disulfide	2.502	76	89917	17.610	ug/l	97
18) Methyl Acetate	2.697	43	66752	20.161	ug/l	97
19) Methyl tert-butyl Ether	3.111	73	158707	18.754	ug/l	98
20) Methylene Chloride	2.782	84	50182	17.535	ug/l	98
21) trans-1,2-Dichloroethene	3.087	96	45171	17.823	ug/l	94
22) Diisopropyl ether	3.757	45	156543	18.542	ug/l	100
23) Vinyl Acetate	3.715	43	671174	98.313	ug/l	100
24) 1,1-Dichloroethane	3.599	63	88317	17.953	ug/l	96
25) 2-Butanone	4.556	43	176234	108.846	ug/l	98
26) 2,2-Dichloropropane	4.465	77	78234	18.394	ug/l	99
27) cis-1,2-Dichloroethene	4.477	96	54462	17.624	ug/l	99
28) Bromochloromethane	4.891	49	42280	18.464	ug/l	97
29) Tetrahydrofuran	5.001	42	111343	100.421	ug/l	99
30) Chloroform	5.080	83	94379	17.797	ug/l	98
31) Cyclohexane	5.464	56	73605	18.224	ug/l	94
32) 1,1,1-Trichloroethane	5.373	97	84469	18.926	ug/l	99
36) 1,1-Dichloropropene	5.678	75	59615	17.813	ug/l	99
37) Ethyl Acetate	4.709	43	68748	20.080	ug/l	99
38) Carbon Tetrachloride	5.666	117	66584	17.931	ug/l	94
39) Methylcyclohexane	7.373	83	79915	18.714	ug/l	96
40) Benzene	6.031	78	185689	17.621	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044606.D
Acq On : 07 Jan 2025 16:57
Operator : JC/MD
Sample : VX0107WBS02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jan 08 05:55:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 03:57:12 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Manual Integrations APPROVED

Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.916	41	36179	19.687	ug/l		97
42) 1,2-Dichloroethane	6.080	62	77836	18.887	ug/l		99
43) Isopropyl Acetate	6.336	43	112810	19.972	ug/l		99
44) Trichloroethene	7.117	130	45250	16.798	ug/l		91
45) 1,2-Dichloropropane	7.428	63	46312	18.026	ug/l		100
46) Dibromomethane	7.574	93	36722	18.379	ug/l		97
47) Bromodichloromethane	7.818	83	67673	18.612	ug/l		97
48) Methyl methacrylate	7.690	41	56864	21.108	ug/l		99
49) 1,4-Dioxane	7.665	88	17140	432.961	ug/l		89
51) 4-Methyl-2-Pentanone	8.574	43	344130	104.227	ug/l		99
52) Toluene	8.714	92	116712	18.356	ug/l		97
53) t-1,3-Dichloropropene	8.976	75	67077	19.300	ug/l		99
54) cis-1,3-Dichloropropene	8.360	75	72482	18.556	ug/l		97
55) 1,1,2-Trichloroethane	9.147	97	45623	18.303	ug/l		98
56) Ethyl methacrylate	9.116	69	71741	19.791	ug/l		98
57) 1,3-Dichloropropane	9.305	76	78769	18.819	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	157231	87.493	ug/l		98
59) 2-Hexanone	9.427	43	253622	108.615	ug/l		100
60) Dibromochloromethane	9.519	129	45815	18.434	ug/l		99
61) 1,2-Dibromoethane	9.604	107	47065	18.696	ug/l		99
64) Tetrachloroethene	9.269	164	39764	17.340	ug/l		95
65) Chlorobenzene	10.073	112	125819	18.278	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.159	131	42891	18.761	ug/l		98
67) Ethyl Benzene	10.189	91	222270	18.804	ug/l		99
68) m/p-Xylenes	10.299	106	165085	38.006	ug/l		99
69) o-Xylene	10.640	106	80120	18.274	ug/l		99
70) Styrene	10.653	104	132817	18.940	ug/l		98
71) Bromoform	10.799	173	26348	17.838	ug/l	#	99
73) Isopropylbenzene	10.957	105	213335	17.230	ug/l		100
74) N-amyl acetate	10.842	43	91220	18.157	ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.207	83	68139	17.074	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	59055m	17.628	ug/l		
77) Bromobenzene	11.195	156	49329	16.401	ug/l		99
78) n-propylbenzene	11.299	91	239201	17.152	ug/l		100
79) 2-Chlorotoluene	11.360	91	147621	16.335	ug/l		100
80) 1,3,5-Trimethylbenzene	11.451	105	178900	17.427	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	18148	16.490	ug/l		95
82) 4-Chlorotoluene	11.451	91	169363	16.659	ug/l		98
83) tert-Butylbenzene	11.713	119	200140	19.579	ug/l		98
84) 1,2,4-Trimethylbenzene	11.750	105	199250	19.322	ug/l		98
85) sec-Butylbenzene	11.890	105	236525	18.999	ug/l		99
86) p-Isopropyltoluene	12.006	119	199894	19.136	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	100552	18.480	ug/l		99
88) 1,4-Dichlorobenzene	12.036	146	100929	17.804	ug/l		99
89) n-Butylbenzene	12.329	91	166838	18.915	ug/l		98
90) Hexachloroethane	12.536	117	27835	16.588	ug/l		98
91) 1,2-Dichlorobenzene	12.335	146	100486	18.276	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	13803	18.244	ug/l		89
93) 1,2,4-Trichlorobenzene	13.585	180	56878	17.601	ug/l		99
94) Hexachlorobutadiene	13.725	225	24088	17.902	ug/l		98
95) Naphthalene	13.774	128	201646	19.340	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	62675	18.973	ug/l		98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044606.D
Acq On : 07 Jan 2025 16:57
Operator : JC/MD
Sample : VX0107WBS02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jan 08 05:55:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 03:57:12 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Manual Integrations APPROVED

Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

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

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

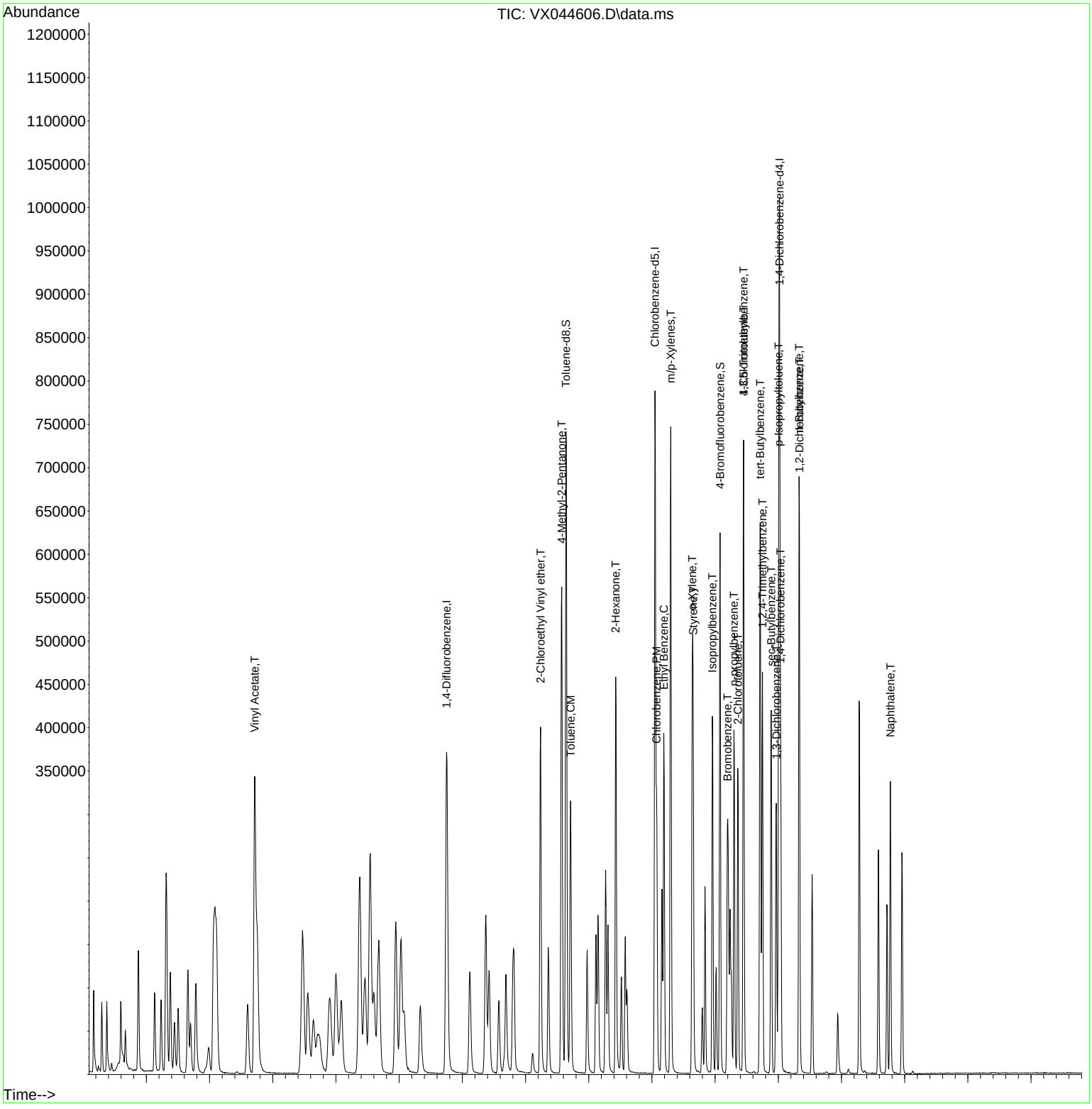
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044606.D
Acq On : 07 Jan 2025 16:57
Operator : JC/MD
Sample : VX0107WBS02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

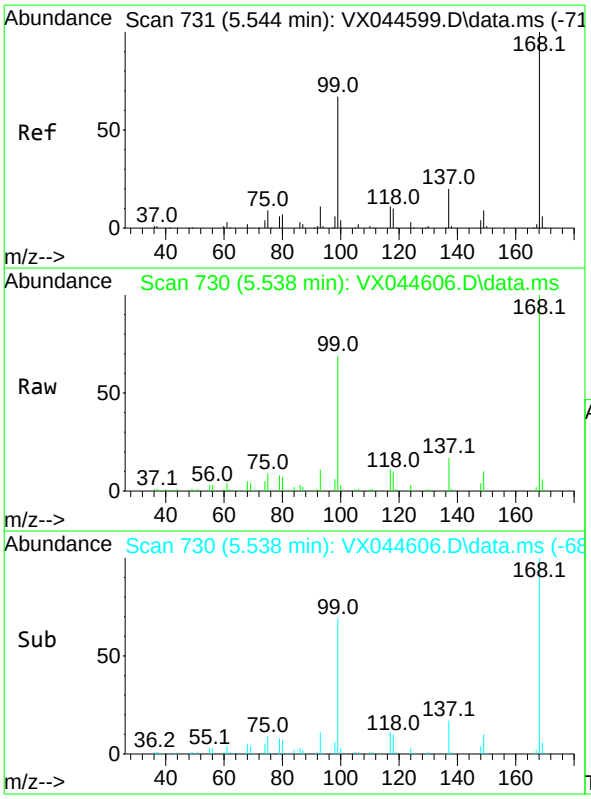
Quant Time: Jan 08 05:55:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 03:57:12 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Manual Integrations APPROVED

Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

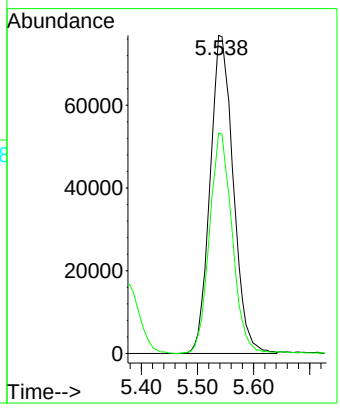




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 73
Delta R.T. -0.006 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion:168 Resp: 220733

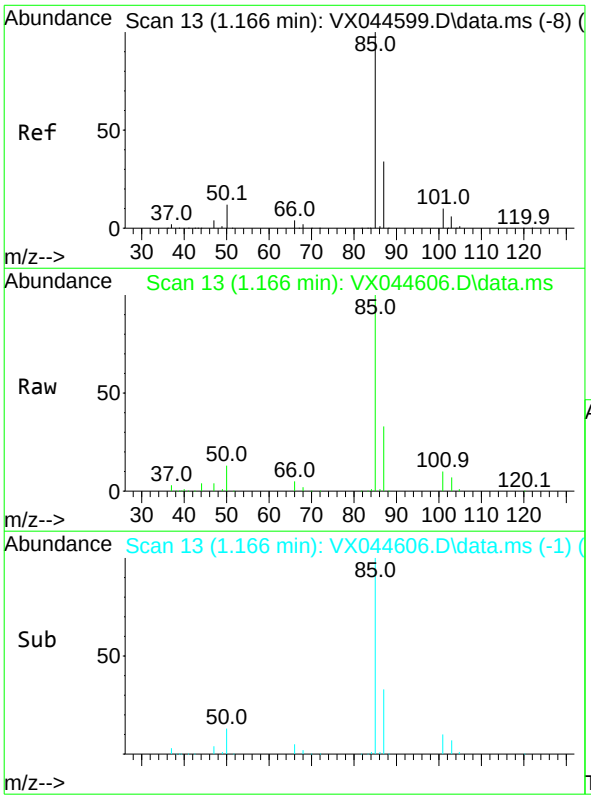
Ion	Ratio	Lower	Upper
168	100		
99	69.3	53.5	80.3



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Manual Integrations APPROVED

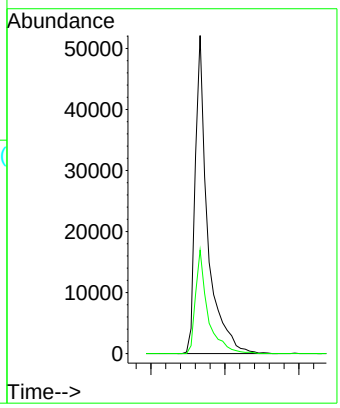
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

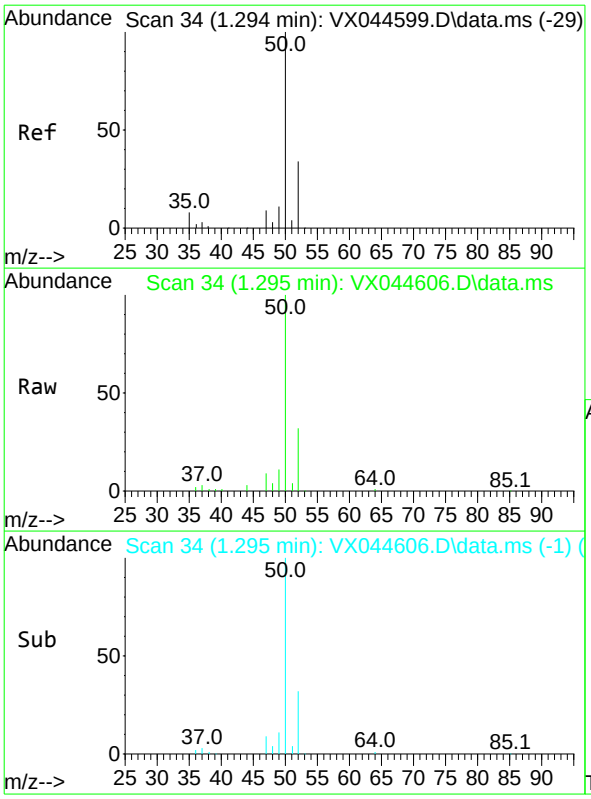


#2
Dichlorodifluoromethane
Concen: 18.945 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 85 Resp: 60506

Ion	Ratio	Lower	Upper
85	100		
87	32.6	17.2	51.5

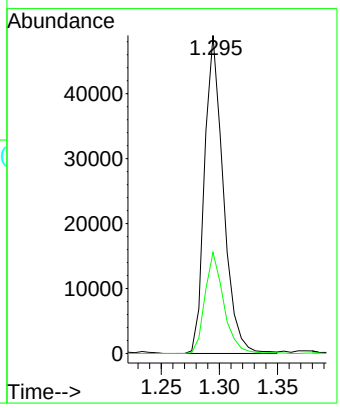




#3
Chloromethane
Concen: 17.282 ug/l
RT: 1.295 min Scan# 34
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 50 Resp: 55002

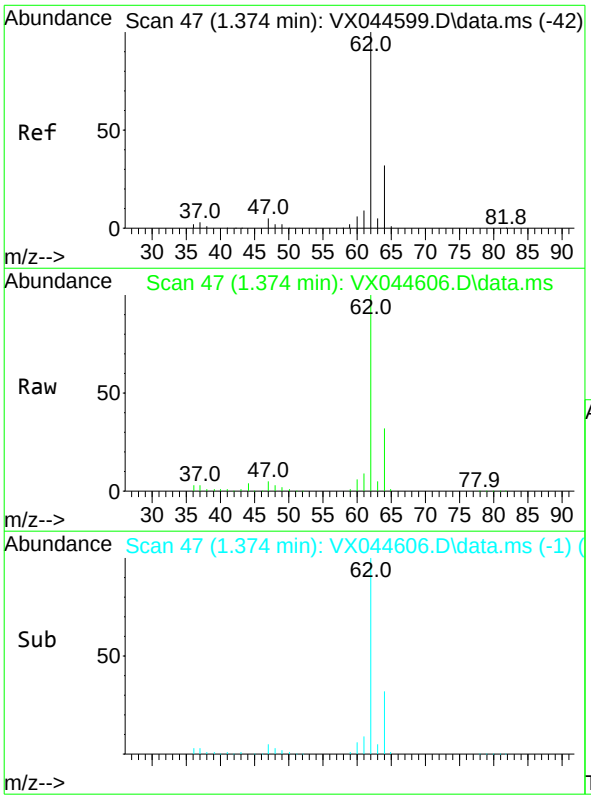
Ion	Ratio	Lower	Upper
50	100		
52	31.8	27.0	40.4



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Manual Integrations APPROVED

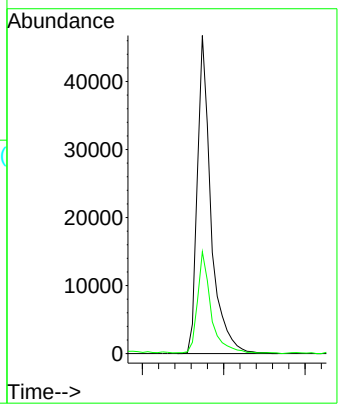
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

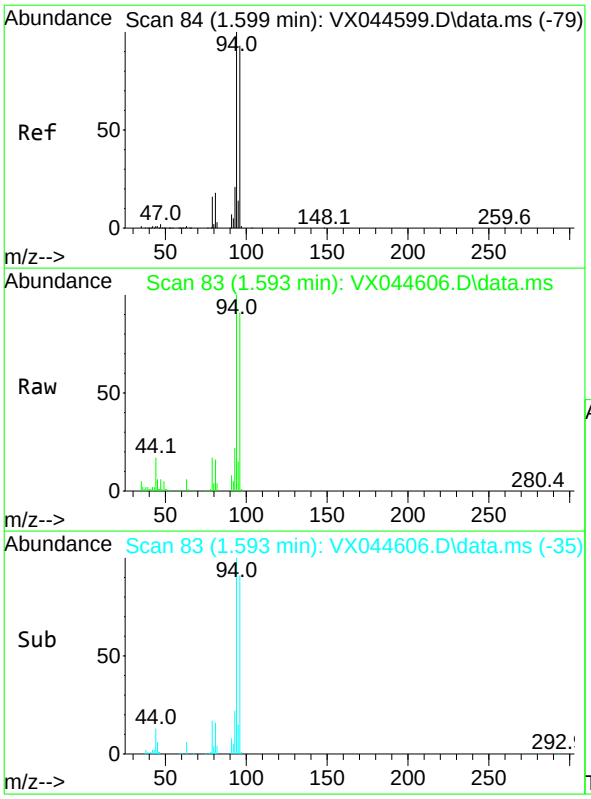


#4
Vinyl Chloride
Concen: 18.203 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 62 Resp: 54350

Ion	Ratio	Lower	Upper
62	100		
64	31.8	26.0	39.0

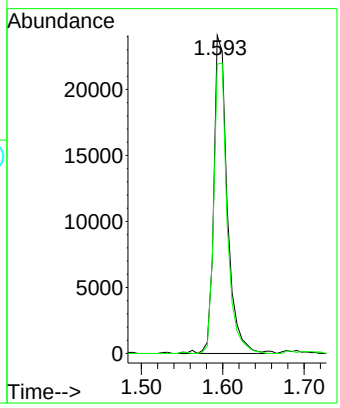




#5
Bromomethane
Concen: 17.967 ug/l
RT: 1.593 min Scan# 83
Delta R.T. -0.006 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 94 Resp: 27787

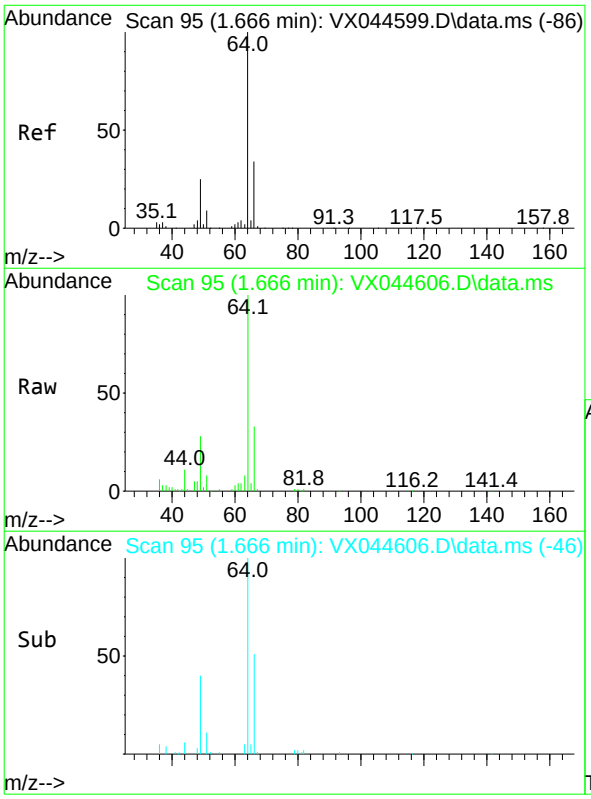
Ion	Ratio	Lower	Upper
94	100		
96	91.0	74.6	112.0



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Manual Integrations APPROVED

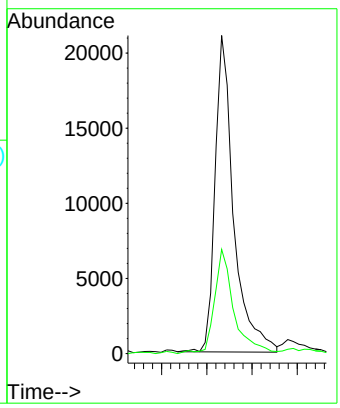
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

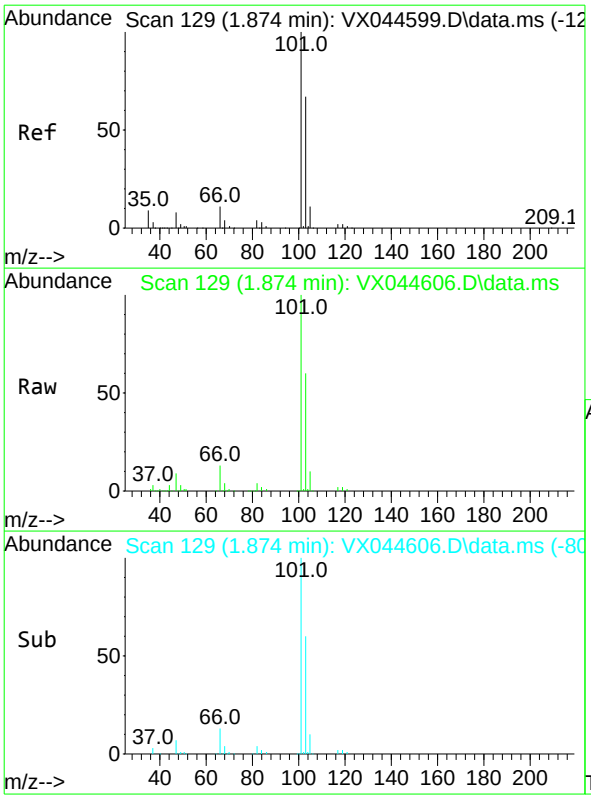


#6
Chloroethane
Concen: 17.605 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 64 Resp: 30070

Ion	Ratio	Lower	Upper
64	100		
66	32.9	27.3	40.9

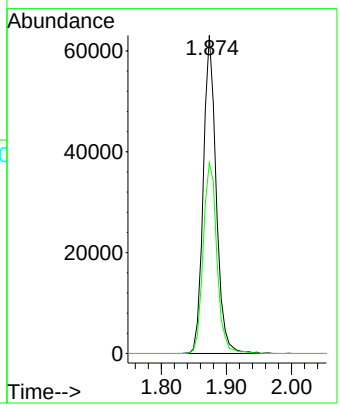




#7
Trichlorofluoromethane
Concen: 19.480 ug/l
RT: 1.874 min Scan# 12
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion:101 Resp: 86604

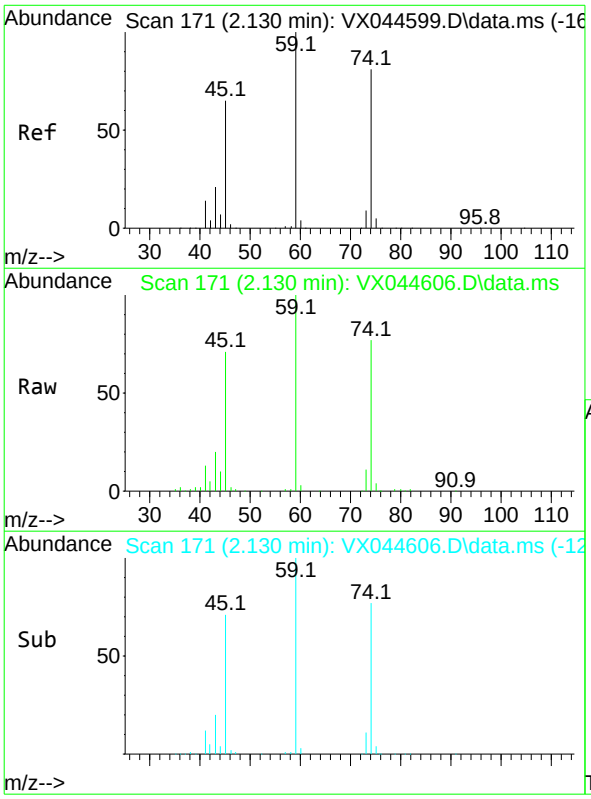
Ion	Ratio	Lower	Upper
101	100		
103	60.0	53.3	79.9



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Manual Integrations
APPROVED

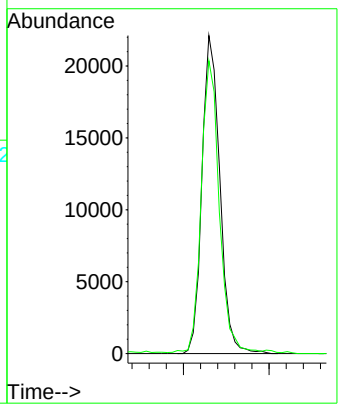
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

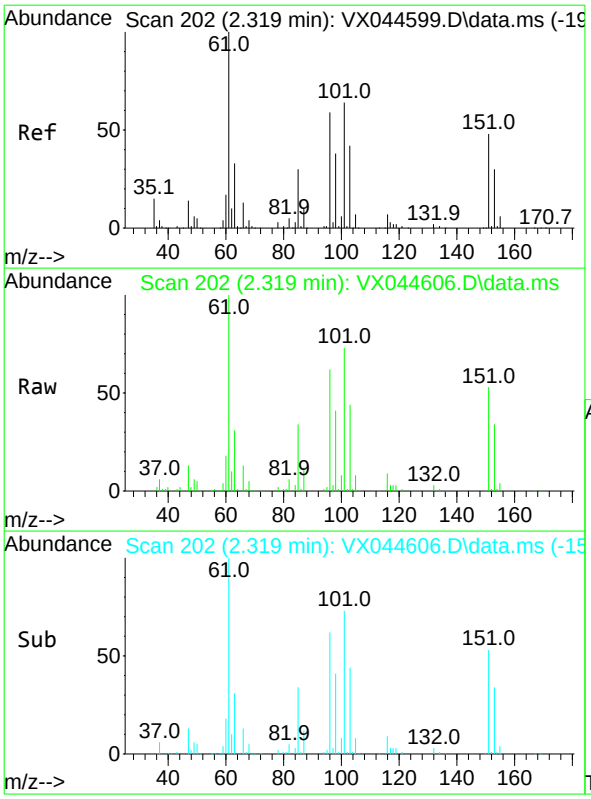


#8
Diethyl Ether
Concen: 20.384 ug/l
RT: 2.130 min Scan# 171
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 74 Resp: 32020

Ion	Ratio	Lower	Upper
74	100		
45	91.9	41.7	125.1





#9
1,1,2-Trichlorotrifluoroethane
Concen: 18.396 ug/l
RT: 2.319 min Scan# 20
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

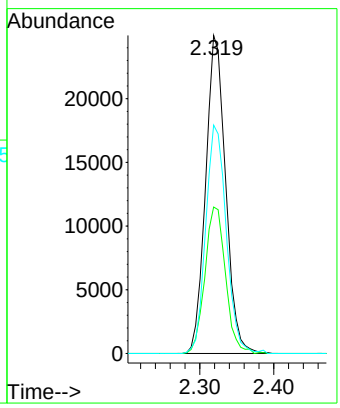
Tgt Ion:101 Resp: 46890

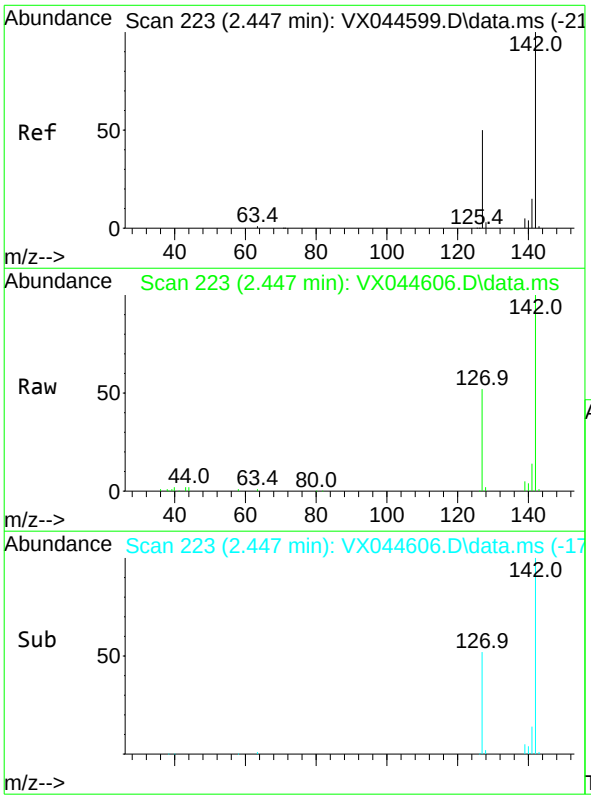
Ion	Ratio	Lower	Upper
101	100		
85	47.5	36.5	54.7
151	73.9	58.6	87.8

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

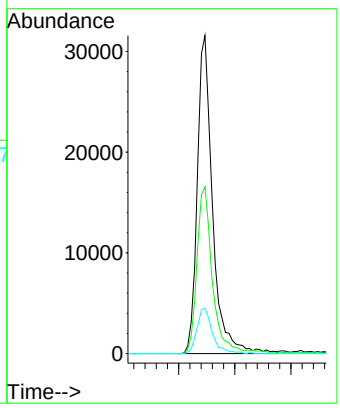


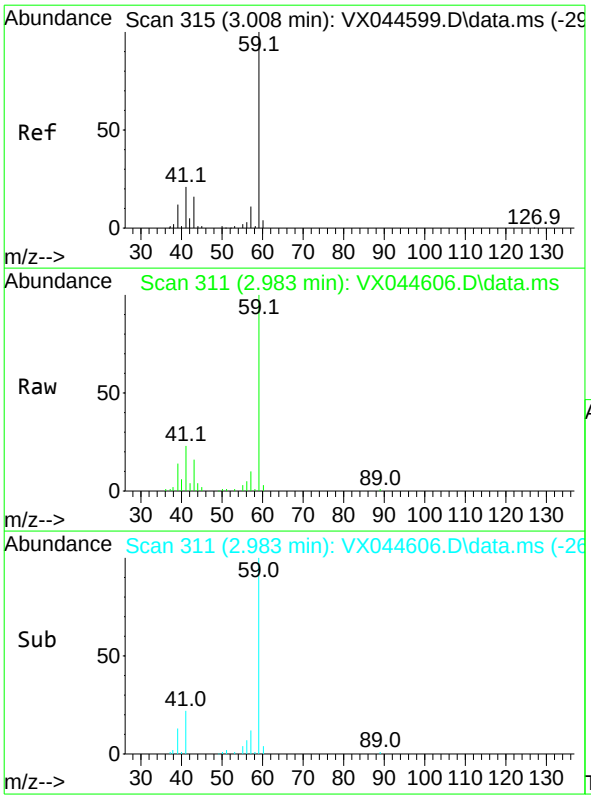


#10
Methyl Iodide
Concen: 16.782 ug/l
RT: 2.447 min Scan# 223
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion:142 Resp: 59649

Ion	Ratio	Lower	Upper
142	100		
127	53.4	41.9	62.9
141	14.4	11.8	17.6

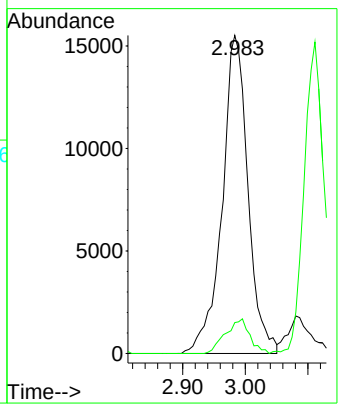




#11
Tert butyl alcohol
Concen: 101.228 ug/l
RT: 2.983 min Scan# 31
Delta R.T. -0.024 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 59 Resp: 44363

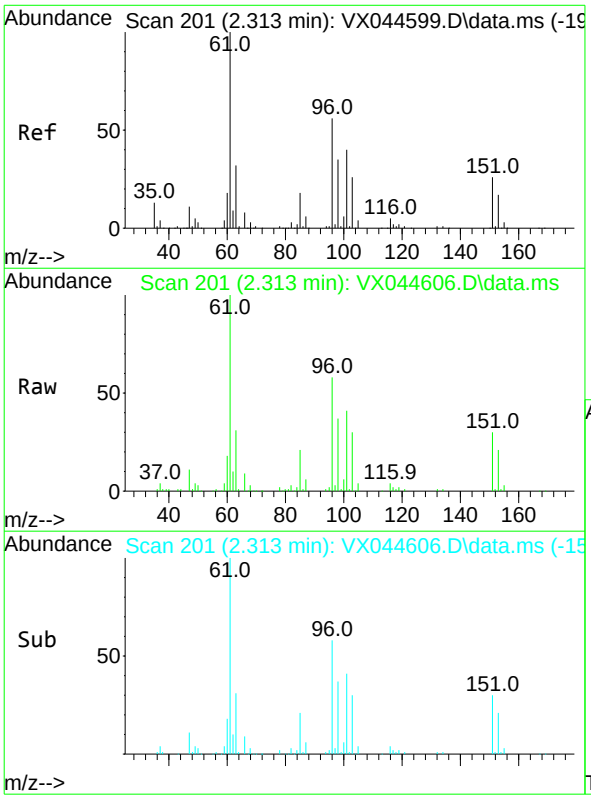
Ion	Ratio	Lower	Upper
59	100		
57	10.2	8.6	12.8



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Manual Integrations APPROVED

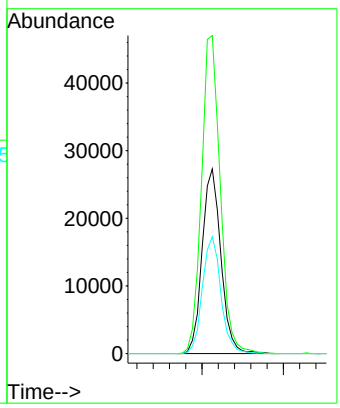
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

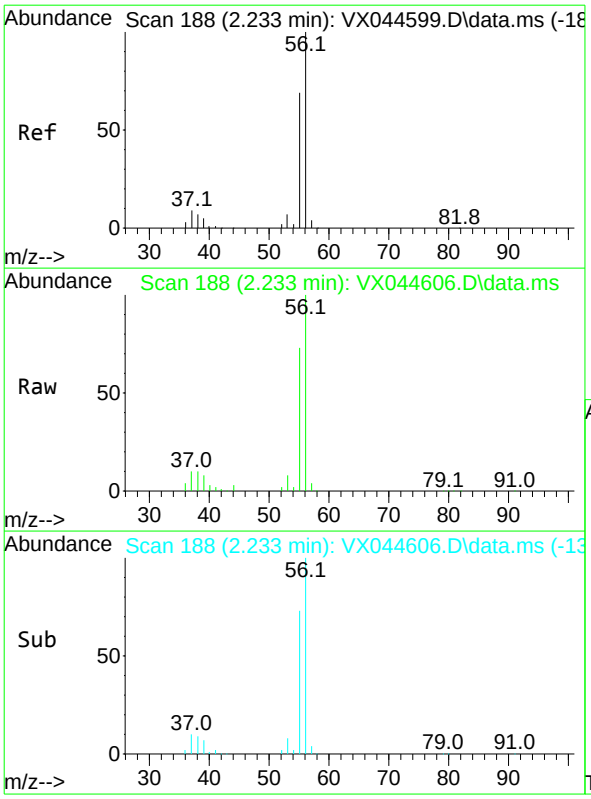


#12
1,1-Dichloroethene
Concen: 17.686 ug/l
RT: 2.313 min Scan# 201
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 96 Resp: 43673

Ion	Ratio	Lower	Upper
96	100		
61	172.2	143.3	214.9
98	63.3	50.6	76.0

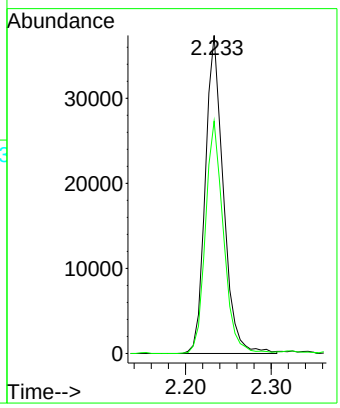




#13
Acrolein
Concen: 94.504 ug/l
RT: 2.233 min Scan# 18
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 56 Resp: 54760

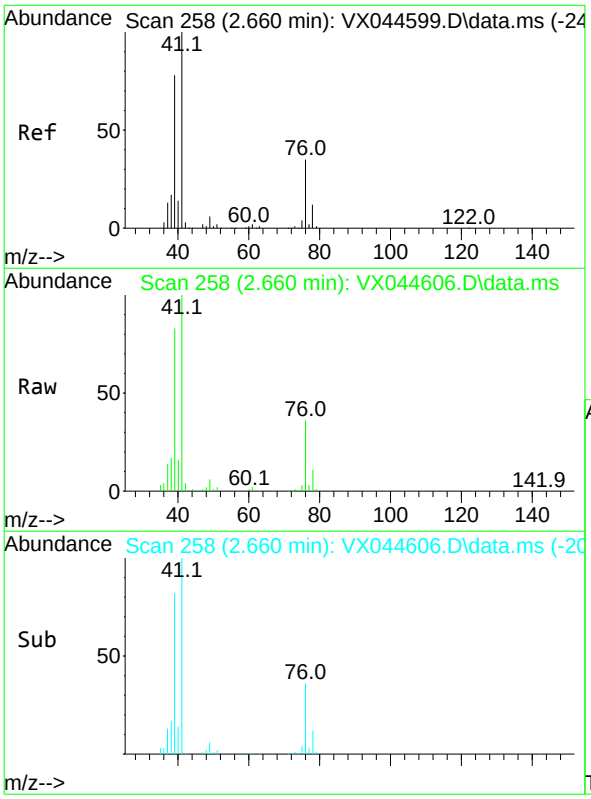
Ion	Ratio	Lower	Upper
56	100		
55	72.9	55.8	83.8



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Manual Integrations
APPROVED

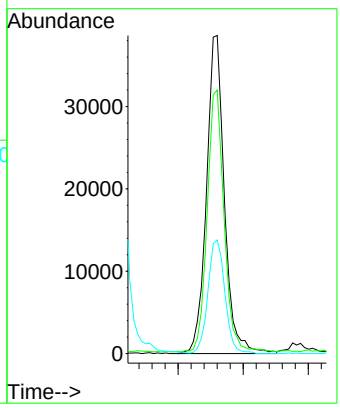
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

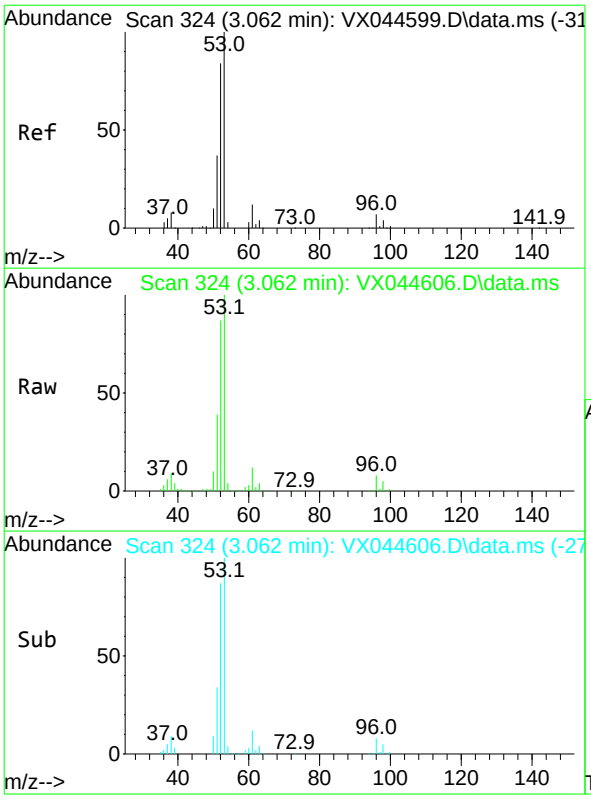


#14
Allyl chloride
Concen: 18.040 ug/l
RT: 2.660 min Scan# 258
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 41 Resp: 74088

Ion	Ratio	Lower	Upper
41	100		
39	77.0	60.2	90.2
76	33.8	25.9	38.9

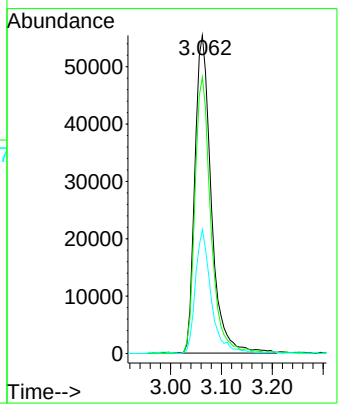




#15
Acrylonitrile
Concen: 98.487 ug/l
RT: 3.062 min Scan# 32
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 53 Resp: 124308

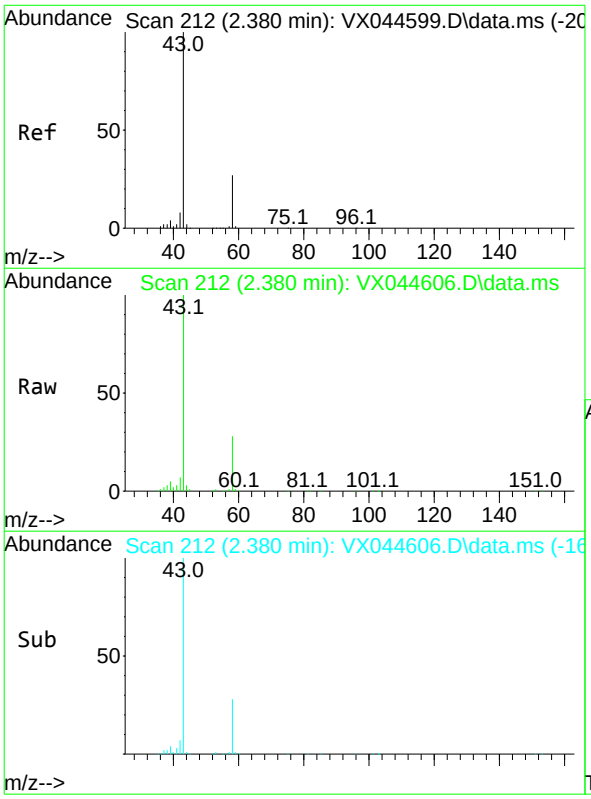
Ion	Ratio	Lower	Upper
53	100		
52	83.3	67.0	100.6
51	37.4	29.4	44.0



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Manual Integrations APPROVED

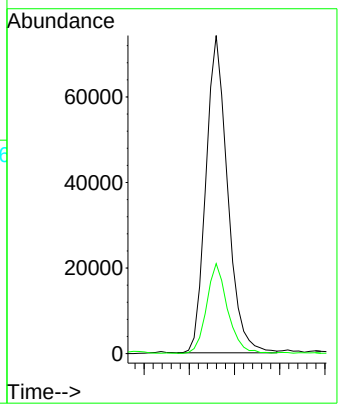
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

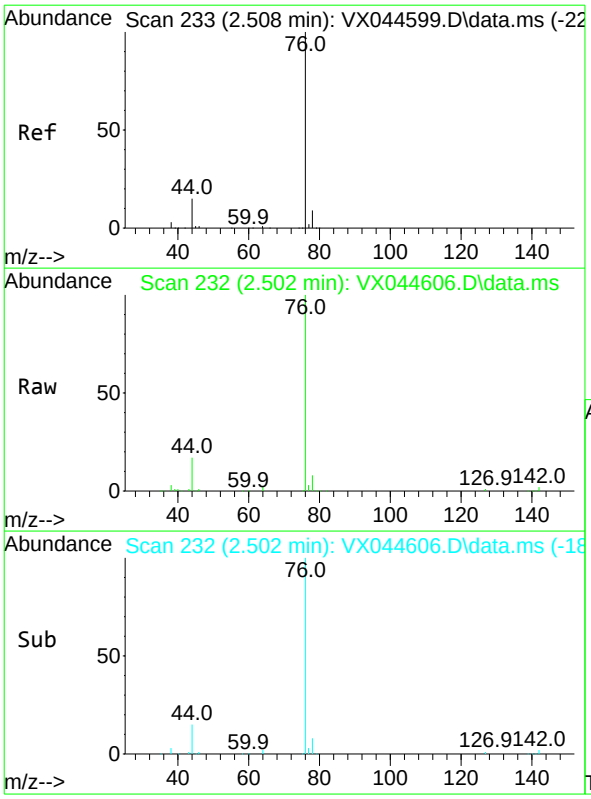


#16
Acetone
Concen: 110.199 ug/l
RT: 2.380 min Scan# 212
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 43 Resp: 123615

Ion	Ratio	Lower	Upper
43	100		
58	28.2	22.0	33.0

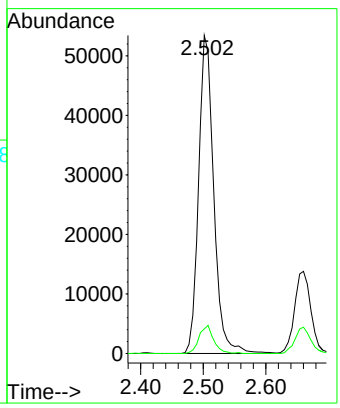




#17
Carbon Disulfide
Concen: 17.610 ug/l
RT: 2.502 min Scan# 23
Delta R.T. -0.006 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 76 Resp: 89917

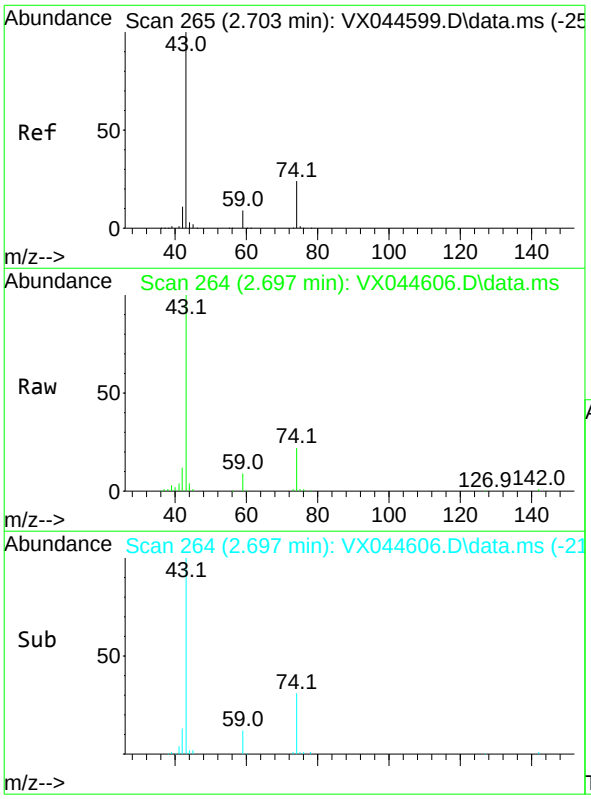
Ion	Ratio	Lower	Upper
76	100		
78	7.7	7.1	10.7



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Manual Integrations
APPROVED

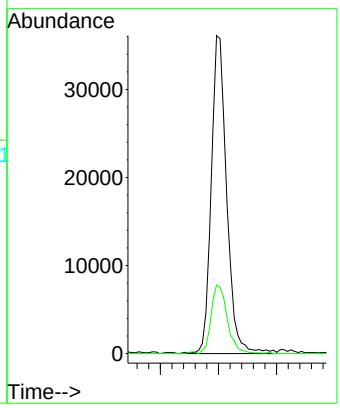
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

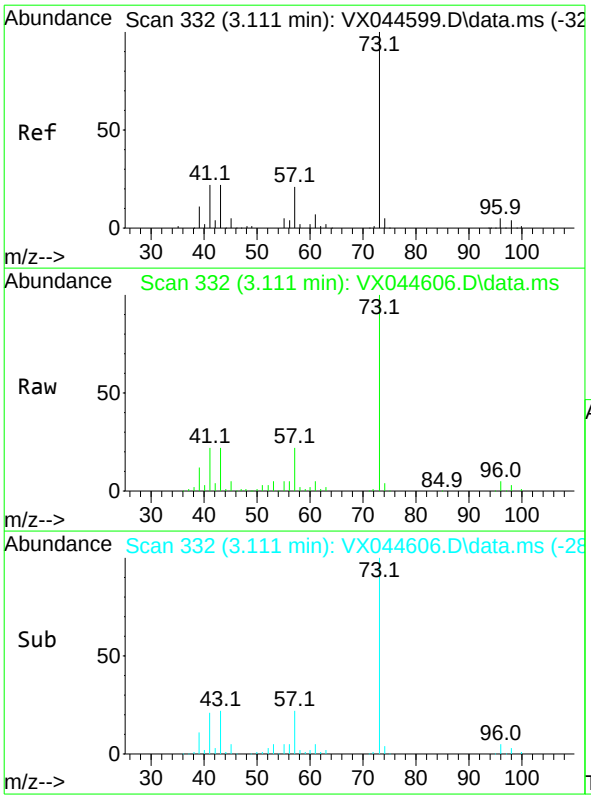


#18
Methyl Acetate
Concen: 20.161 ug/l
RT: 2.697 min Scan# 264
Delta R.T. -0.006 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 43 Resp: 66752

Ion	Ratio	Lower	Upper
43	100		
74	22.8	19.3	28.9

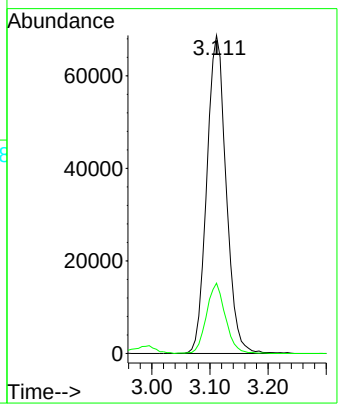




#19
Methyl tert-butyl Ether
Concen: 18.754 ug/l
RT: 3.111 min Scan# 33
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 73 Resp: 158707

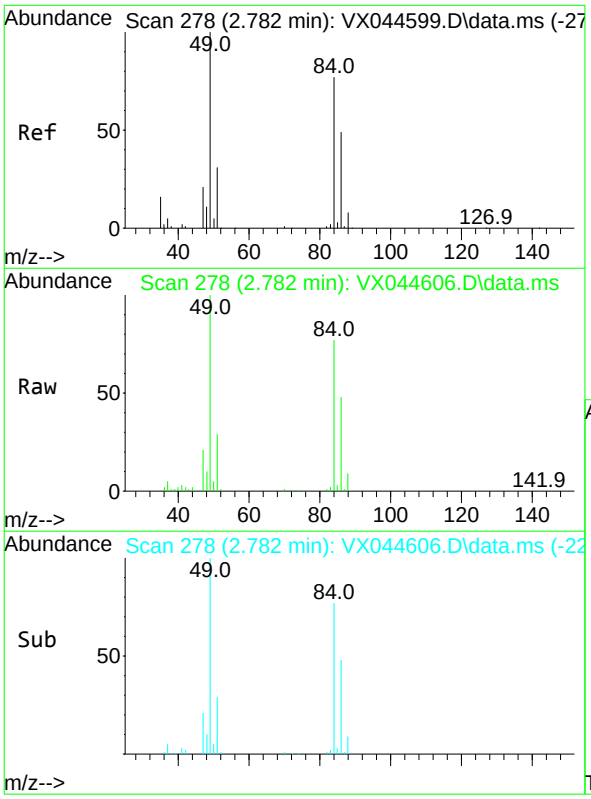
Ion	Ratio	Lower	Upper
73	100		
57	22.1	17.0	25.4



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Manual Integrations APPROVED

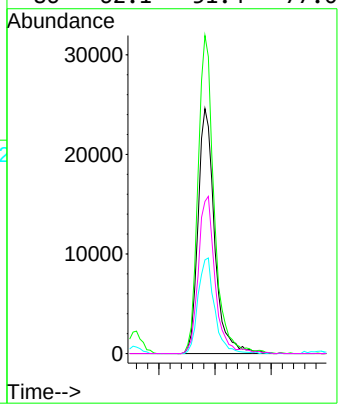
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

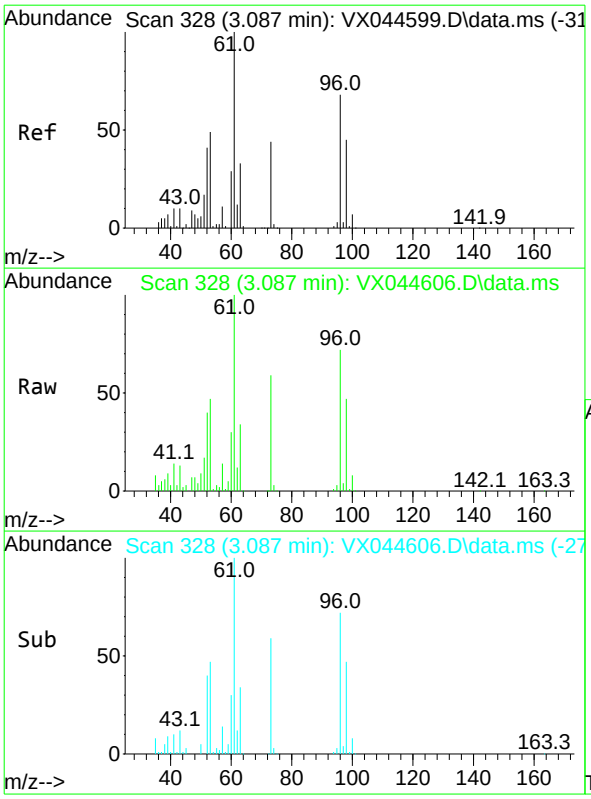


#20
Methylene Chloride
Concen: 17.535 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 84 Resp: 50182

Ion	Ratio	Lower	Upper
84	100		
49	129.8	104.4	156.6
51	38.3	32.0	48.0
86	62.1	51.4	77.0

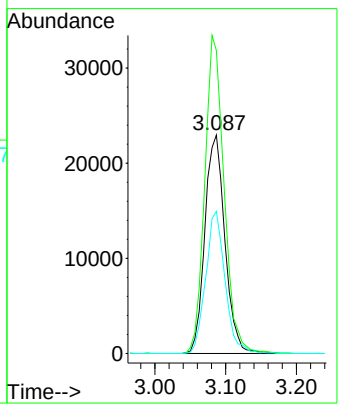




#21
trans-1,2-Dichloroethene
Concen: 17.823 ug/l
RT: 3.087 min Scan# 32
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 96 Resp: 45171

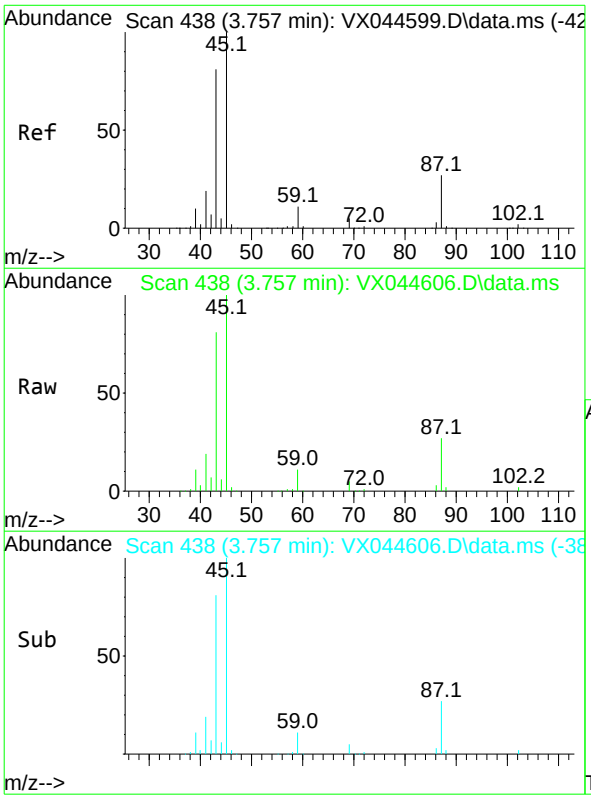
Ion	Ratio	Lower	Upper
96	100		
61	138.6	118.5	177.7
98	65.1	53.4	80.0



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Manual Integrations APPROVED

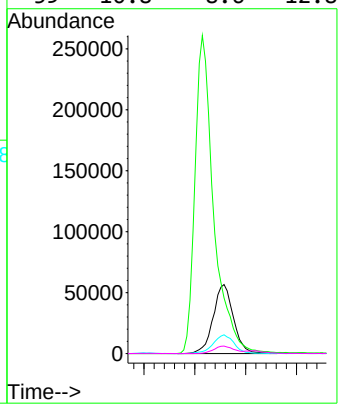
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

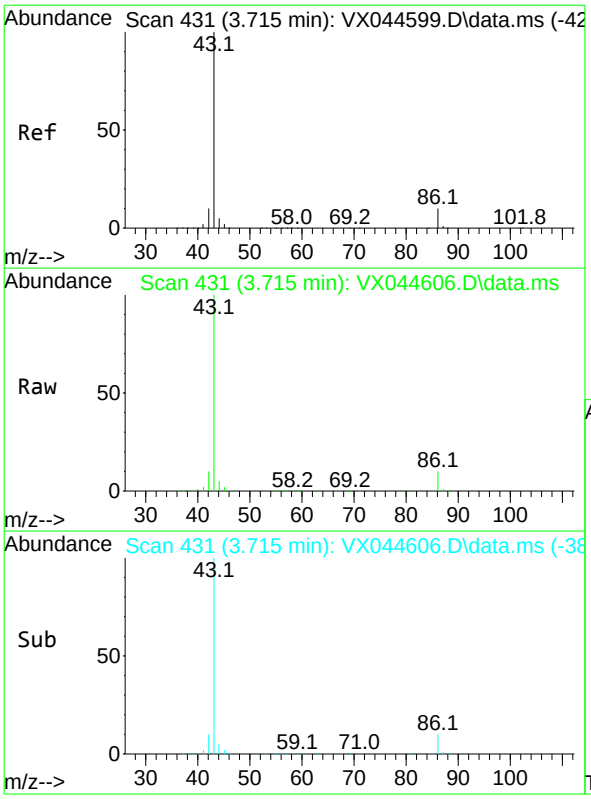


#22
Diisopropyl ether
Concen: 18.542 ug/l
RT: 3.757 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 45 Resp: 156543

Ion	Ratio	Lower	Upper
45	100		
43	80.5	64.6	97.0
87	27.2	21.8	32.8
59	10.8	8.6	12.8

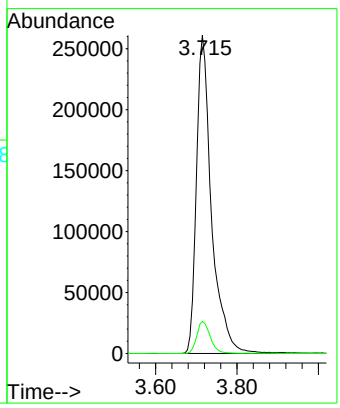




#23
Vinyl Acetate
Concen: 98.313 ug/l
RT: 3.715 min Scan# 43
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 43 Resp: 671174

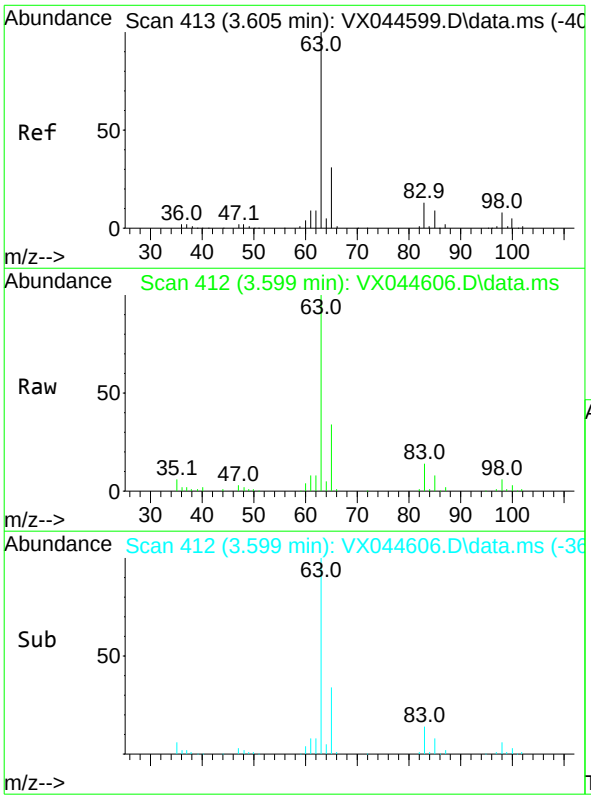
Ion	Ratio	Lower	Upper
43	100		
86	10.1	8.1	12.1



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Manual Integrations APPROVED

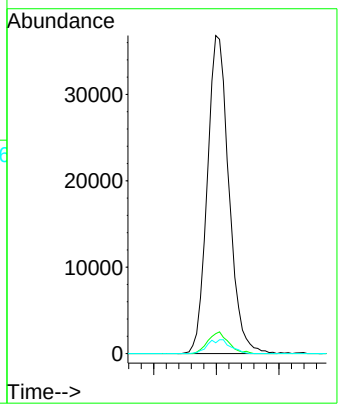
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

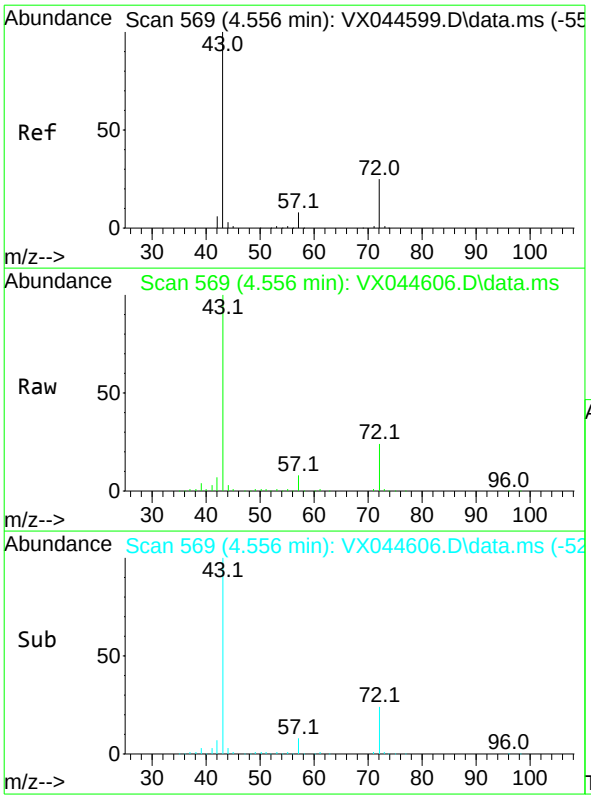


#24
1,1-Dichloroethane
Concen: 17.953 ug/l
RT: 3.599 min Scan# 412
Delta R.T. -0.006 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 63 Resp: 88317

Ion	Ratio	Lower	Upper
63	100		
98	6.3	3.8	11.4
100	3.4	2.4	7.2

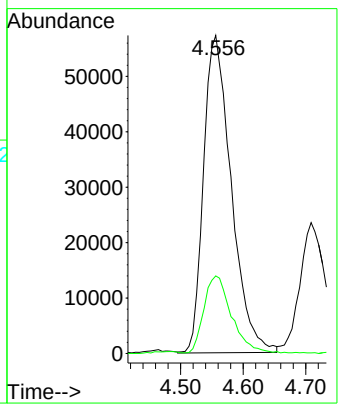




#25
2-Butanone
Concen: 108.846 ug/l
RT: 4.556 min Scan# 56
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 43 Resp: 176234

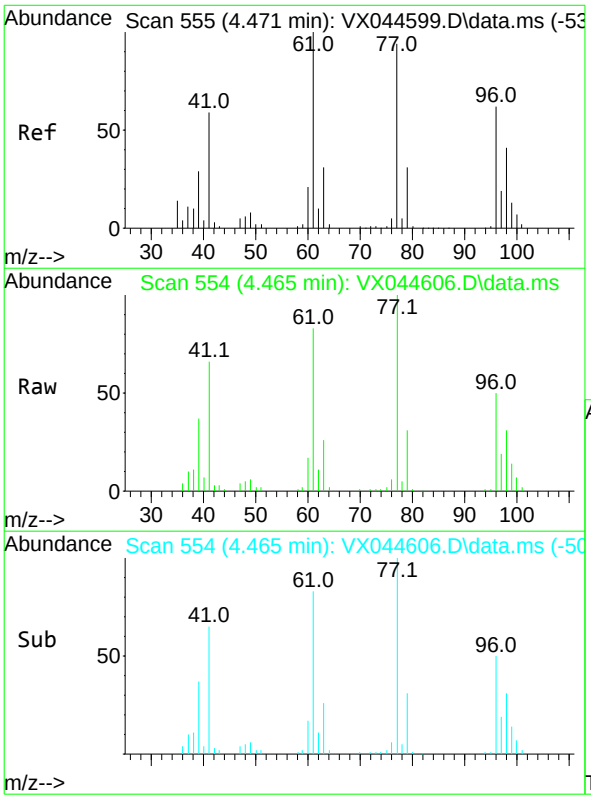
Ion	Ratio	Lower	Upper
43	100		
72	24.1	20.2	30.2



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Manual Integrations APPROVED

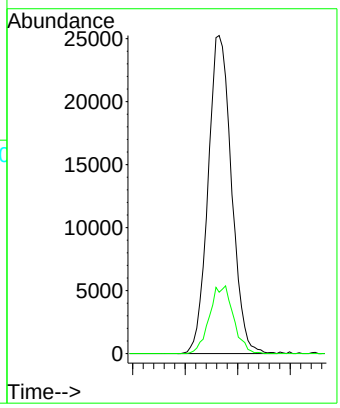
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

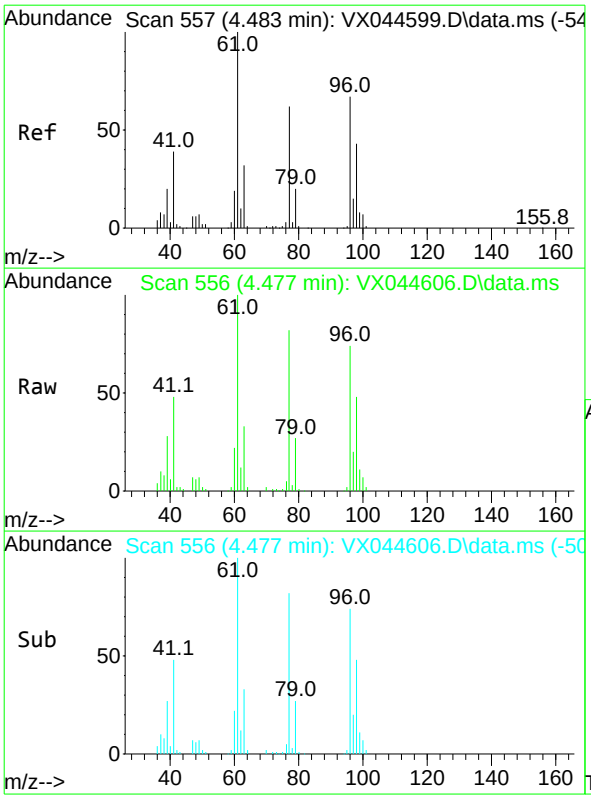


#26
2,2-Dichloropropane
Concen: 18.394 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.006 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 77 Resp: 78234

Ion	Ratio	Lower	Upper
77	100		
97	21.8	10.7	32.1

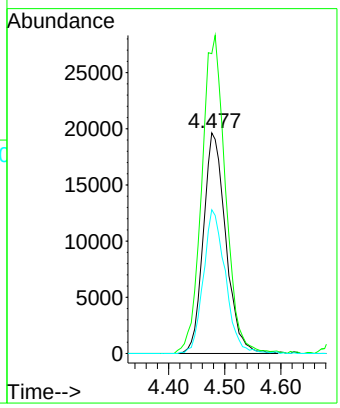




#27
cis-1,2-Dichloroethene
Concen: 17.624 ug/l
RT: 4.477 min Scan# 55
Delta R.T. -0.006 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 96 Resp: 54462

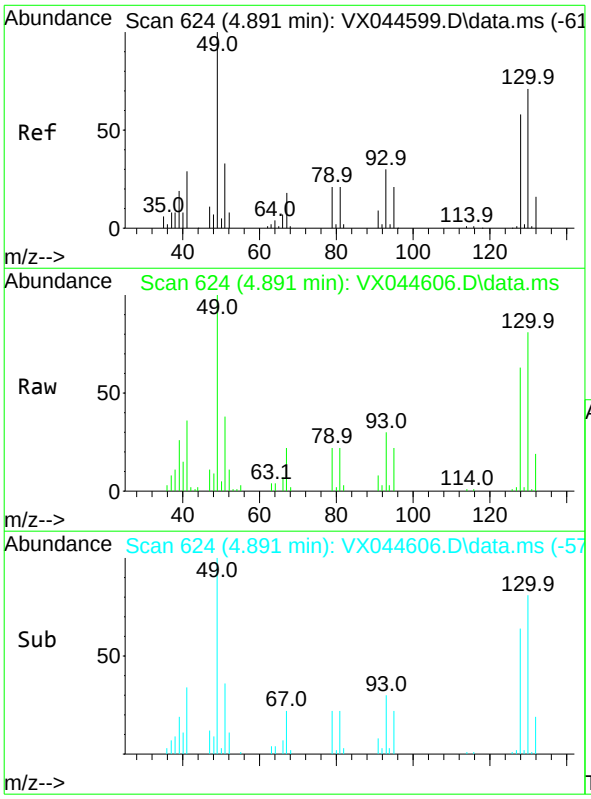
Ion	Ratio	Lower	Upper
96	100		
61	152.6	0.0	302.8
98	63.9	0.0	130.0



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Manual Integrations APPROVED

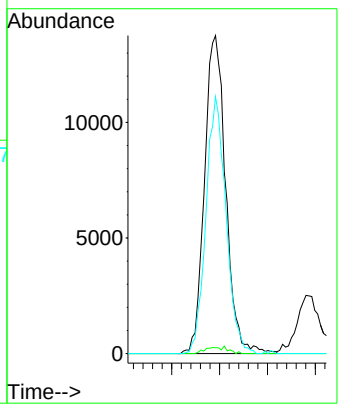
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

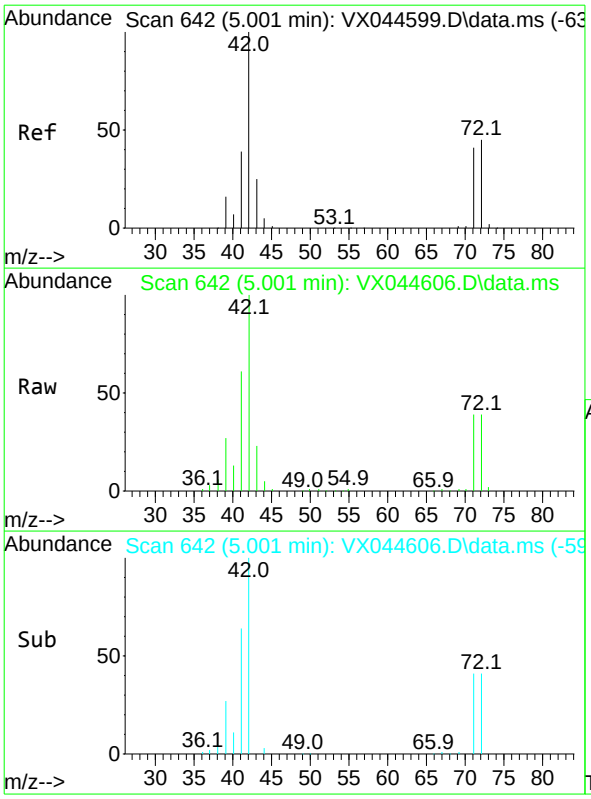


#28
Bromochloromethane
Concen: 18.464 ug/l
RT: 4.891 min Scan# 624
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 49 Resp: 42280

Ion	Ratio	Lower	Upper
49	100		
129	1.5	0.0	4.2
130	76.4	58.8	88.2

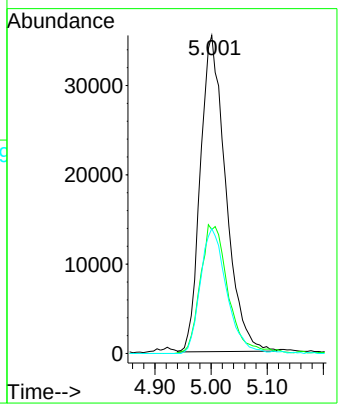




#29
Tetrahydrofuran
Concen: 100.421 ug/l
RT: 5.001 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 42 Resp: 111343

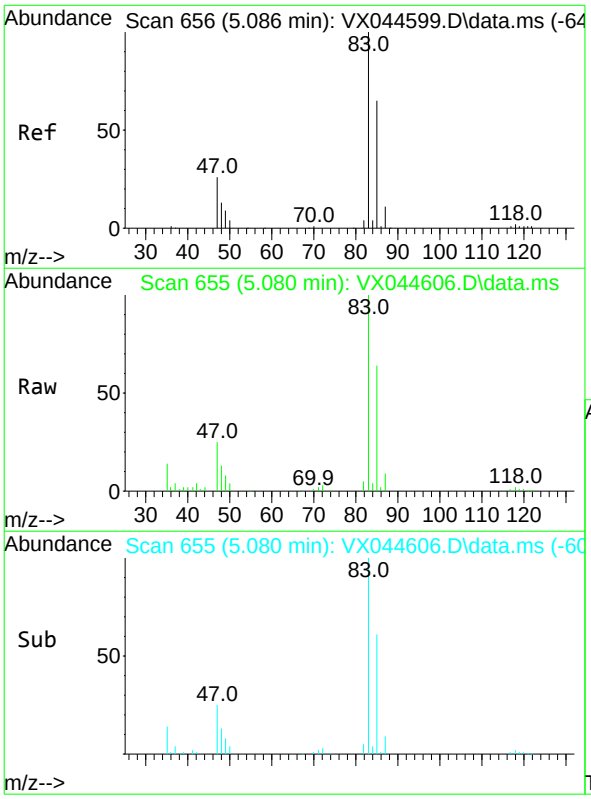
Ion	Ratio	Lower	Upper
42	100		
72	44.6	36.1	54.1
71	40.7	33.0	49.6



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Manual Integrations APPROVED

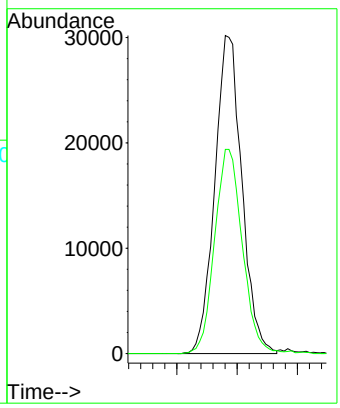
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

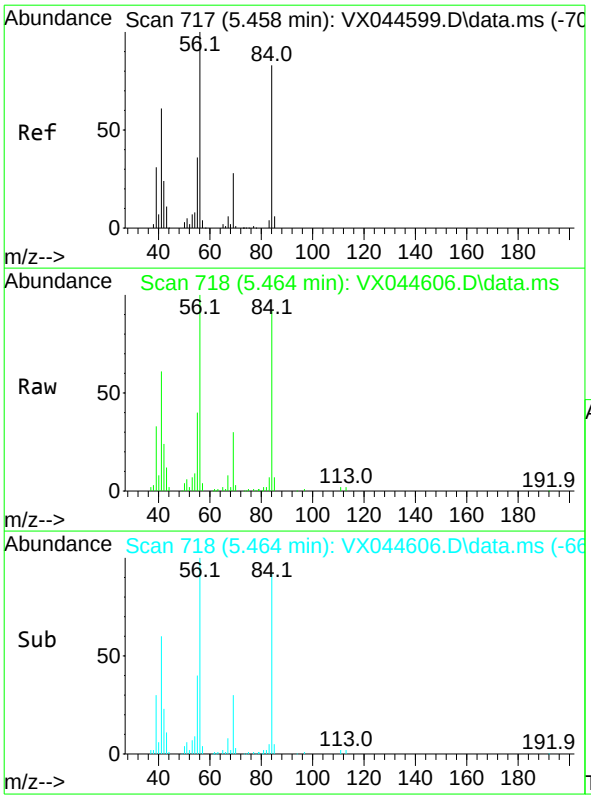


#30
Chloroform
Concen: 17.797 ug/l
RT: 5.080 min Scan# 655
Delta R.T. -0.006 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 83 Resp: 94379

Ion	Ratio	Lower	Upper
83	100		
85	64.2	52.3	78.5

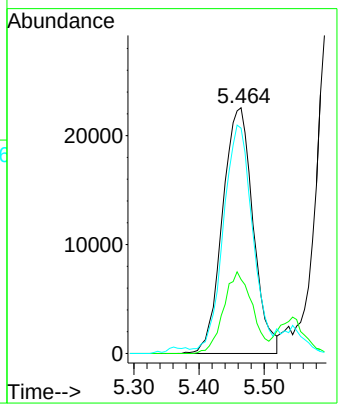




#31
Cyclohexane
Concen: 18.224 ug/l
RT: 5.464 min Scan# 71
Delta R.T. 0.006 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 56 Resp: 73605

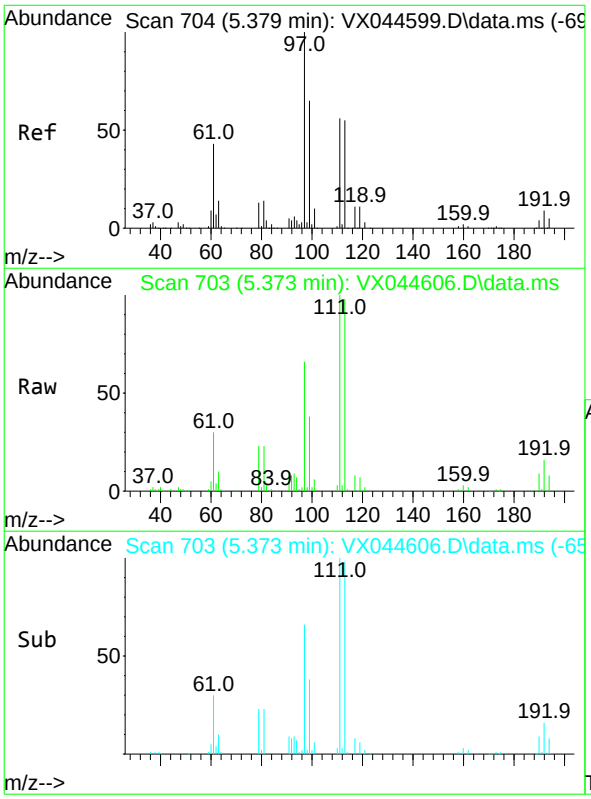
Ion	Ratio	Lower	Upper
56	100		
69	30.1	22.2	33.4
84	89.6	66.6	100.0



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Manual Integrations APPROVED

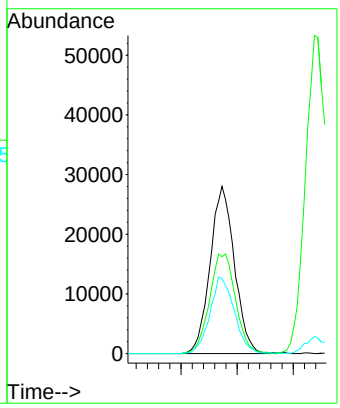
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

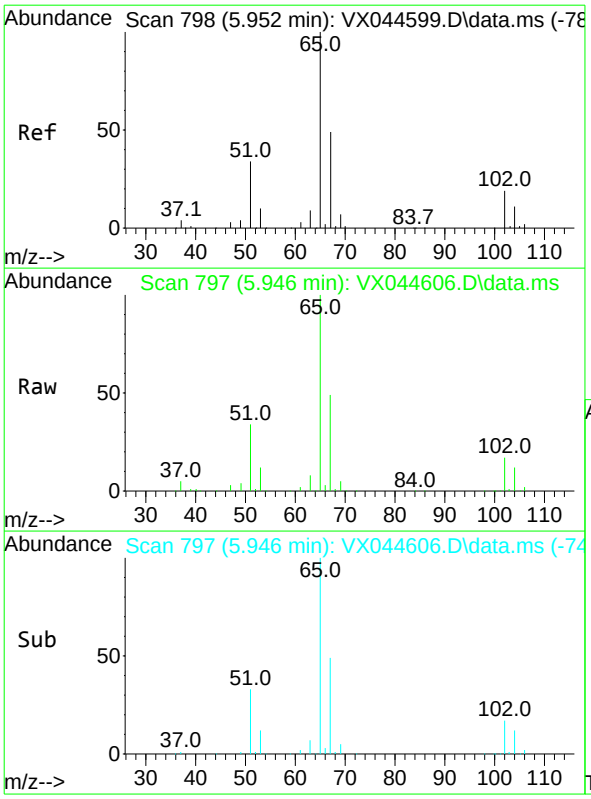


#32
1,1,1-Trichloroethane
Concen: 18.926 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.006 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 97 Resp: 84469

Ion	Ratio	Lower	Upper
97	100		
99	63.6	52.1	78.1
61	45.9	36.8	55.2

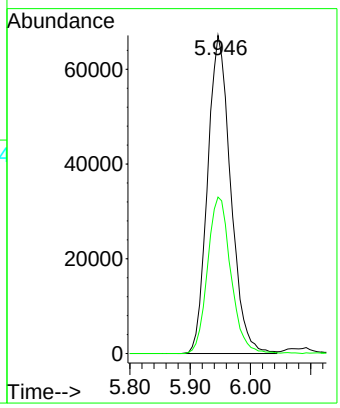




#33
1,2-Dichloroethane-d4
Concen: 50.209 ug/l
RT: 5.946 min Scan# 79
Delta R.T. -0.006 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 65 Resp: 178695

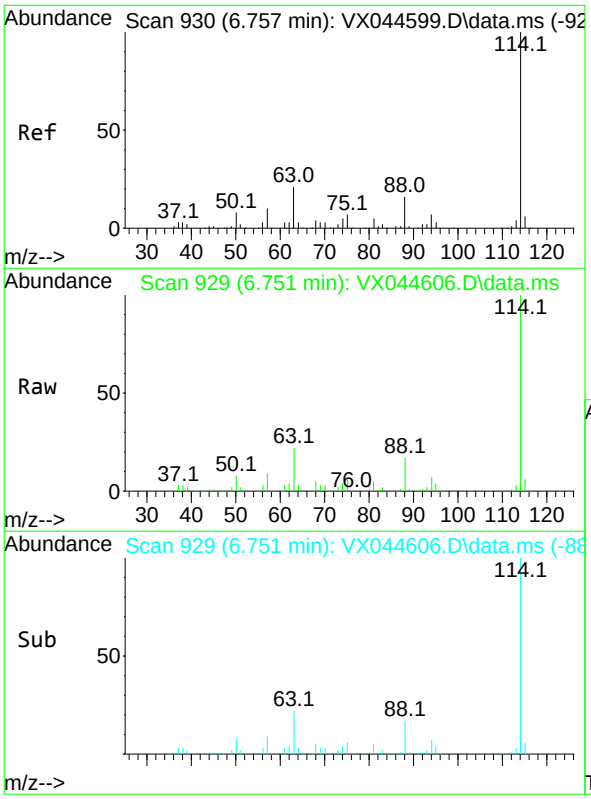
Ion	Ratio	Lower	Upper
65	100		
67	49.5	0.0	99.0



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Manual Integrations APPROVED

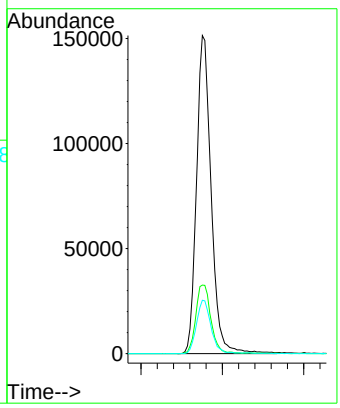
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

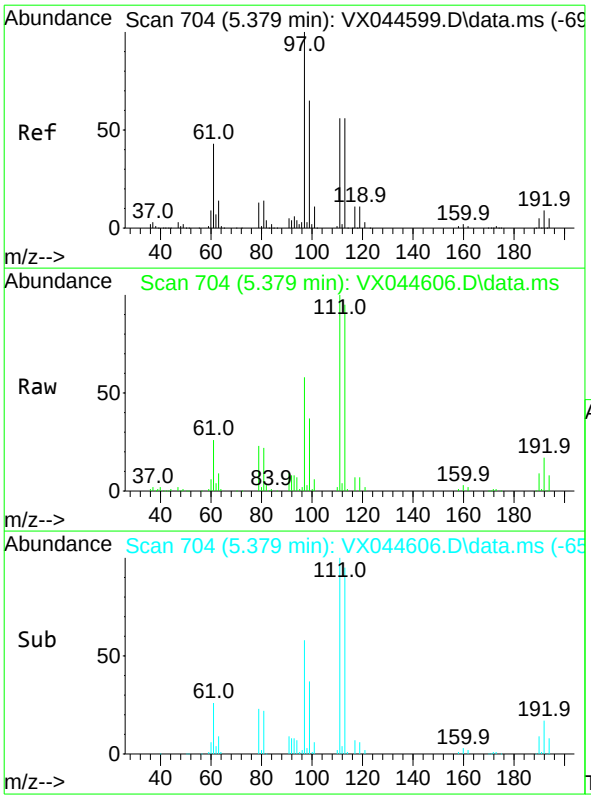


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. -0.006 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion:114 Resp: 377450

Ion	Ratio	Lower	Upper
114	100		
63	21.5	0.0	42.6
88	16.8	0.0	32.6

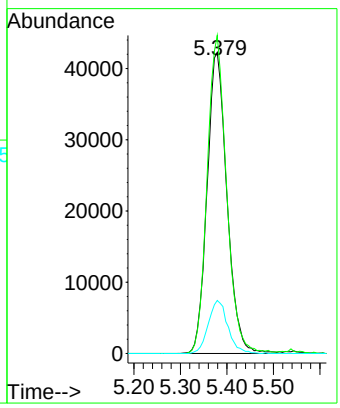




#35
Dibromofluoromethane
Concen: 48.518 ug/l
RT: 5.379 min Scan# 70
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion:113 Resp: 125576

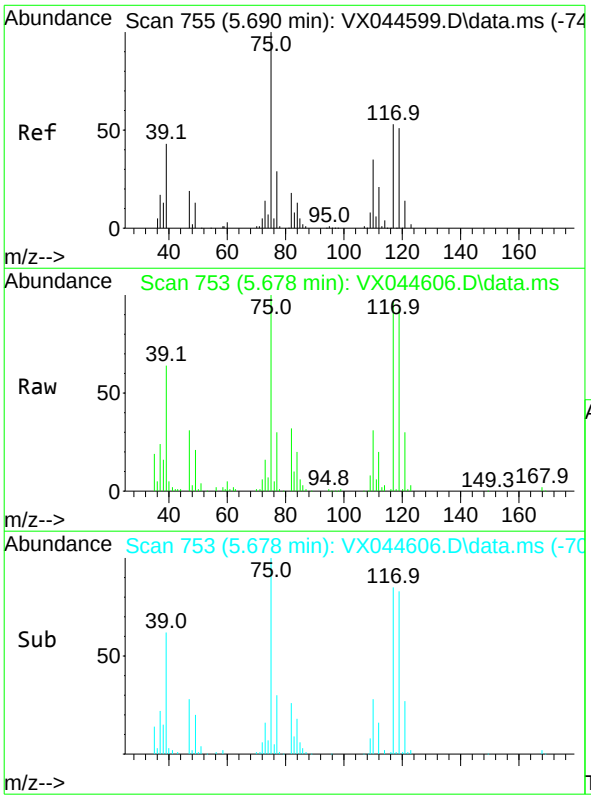
Ion	Ratio	Lower	Upper
113	100		
111	103.2	83.3	124.9
192	17.3	14.3	21.5



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Manual Integrations APPROVED

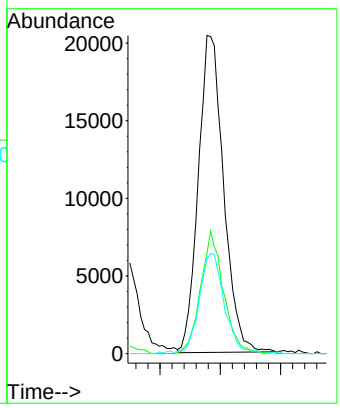
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

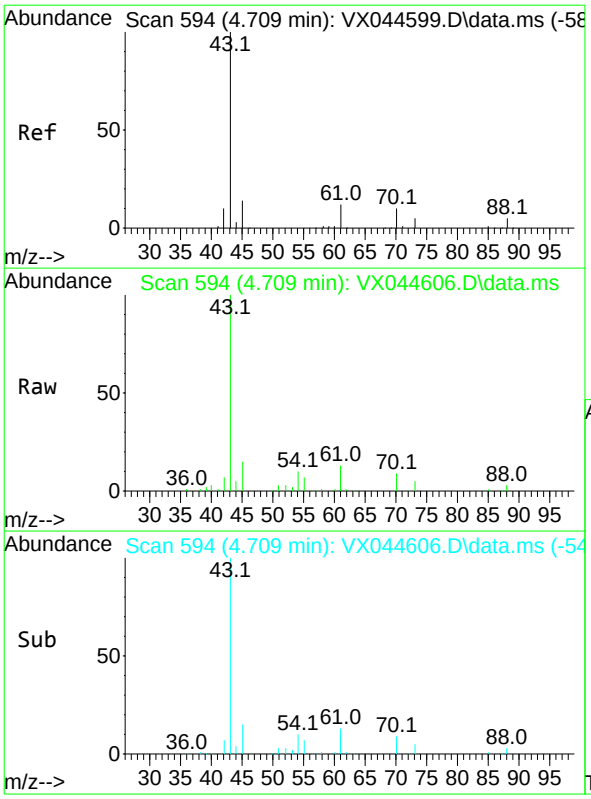


#36
1,1-Dichloropropene
Concen: 17.813 ug/l
RT: 5.678 min Scan# 753
Delta R.T. -0.012 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 75 Resp: 59615

Ion	Ratio	Lower	Upper
75	100		
110	34.9	17.3	51.9
77	31.4	24.7	37.1

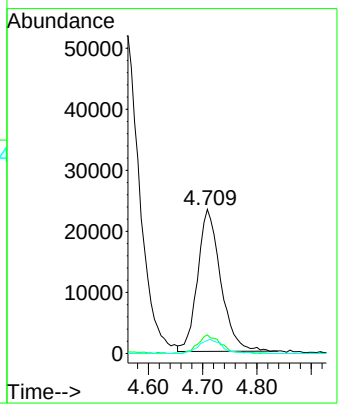




#37
Ethyl Acetate
Concen: 20.080 ug/l
RT: 4.709 min Scan# 59
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 43 Resp: 68748

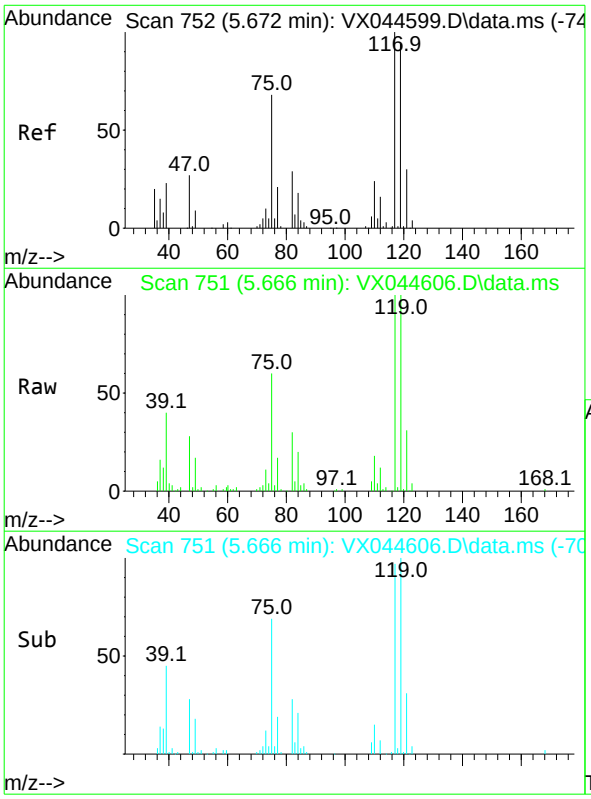
Ion	Ratio	Lower	Upper
43	100		
61	13.0	9.9	14.9
70	10.0	8.0	12.0



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Manual Integrations
APPROVED

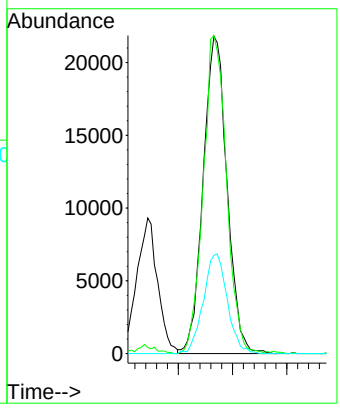
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

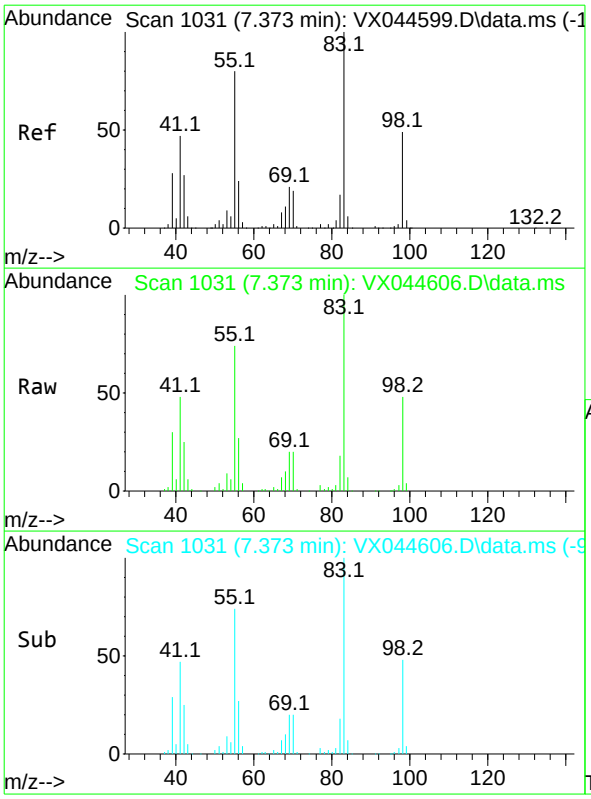


#38
Carbon Tetrachloride
Concen: 17.931 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion:117 Resp: 66584

Ion	Ratio	Lower	Upper
117	100		
119	100.2	74.5	111.7
121	31.0	24.1	36.1

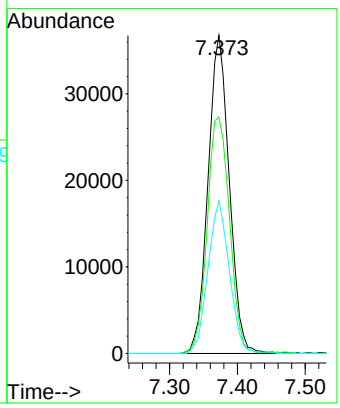




#39
Methylcyclohexane
Concen: 18.714 ug/l
RT: 7.373 min Scan# 10
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 83 Resp: 79915

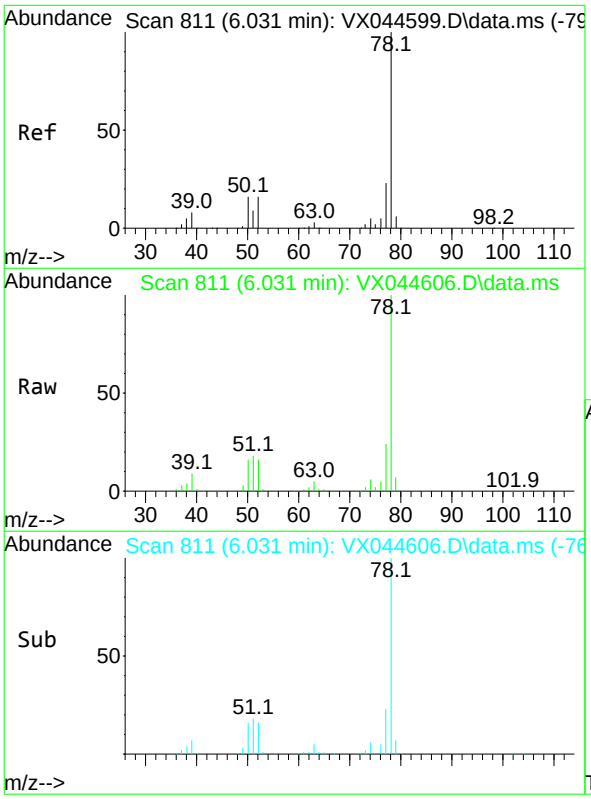
Ion	Ratio	Lower	Upper
83	100		
55	74.4	64.1	96.1
98	48.0	38.9	58.3



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Manual Integrations APPROVED

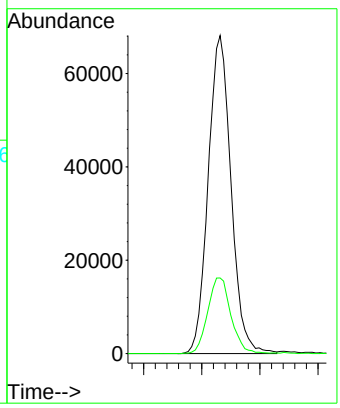
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

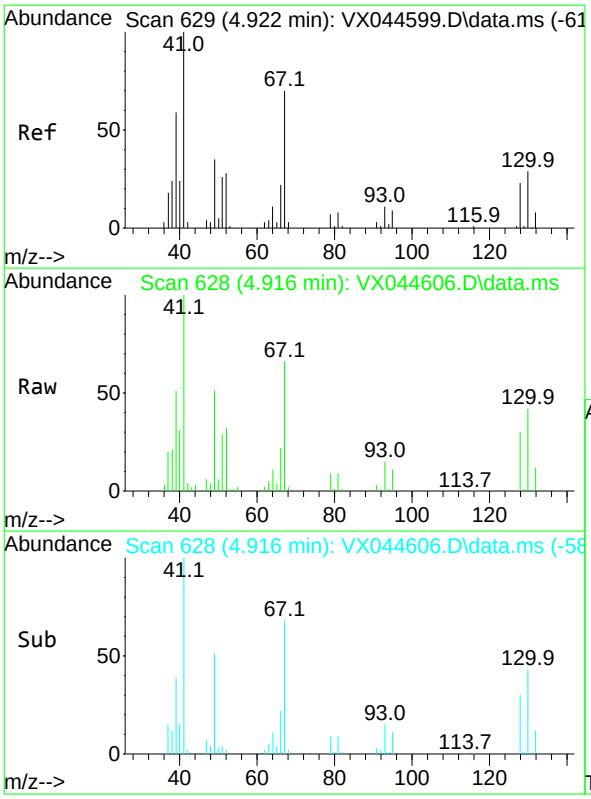


#40
Benzene
Concen: 17.621 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 78 Resp: 185689

Ion	Ratio	Lower	Upper
78	100		
77	23.8	18.8	28.2

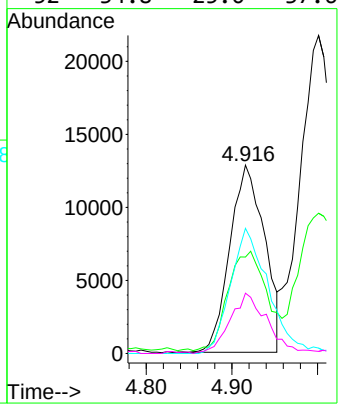




#41
Methacrylonitrile
Concen: 19.687 ug/l
RT: 4.916 min Scan# 62
Delta R.T. -0.006 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 41 Resp: 36179

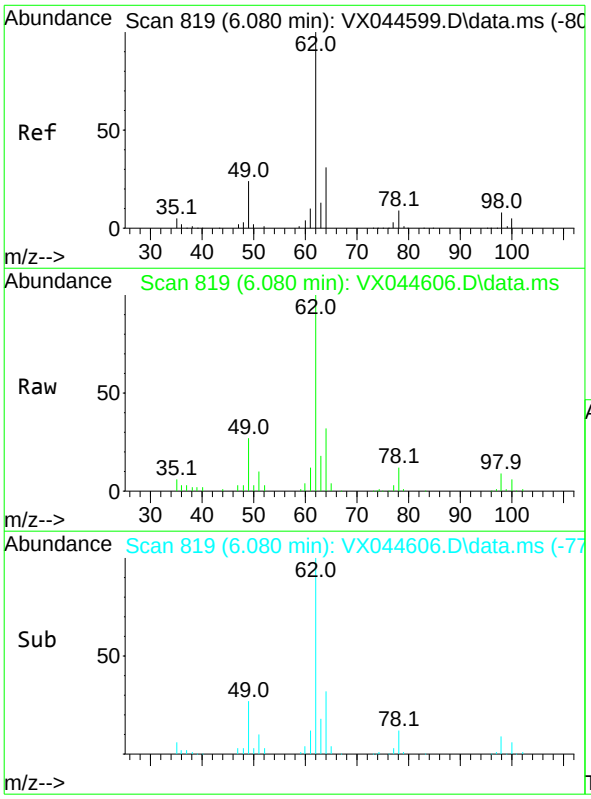
Ion	Ratio	Lower	Upper
41	100		
39	59.9	47.0	70.4
67	73.6	57.4	86.2
52	34.8	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Manual Integrations APPROVED

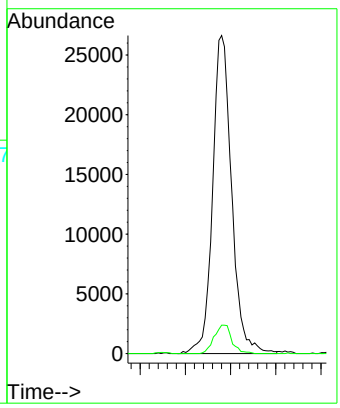
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

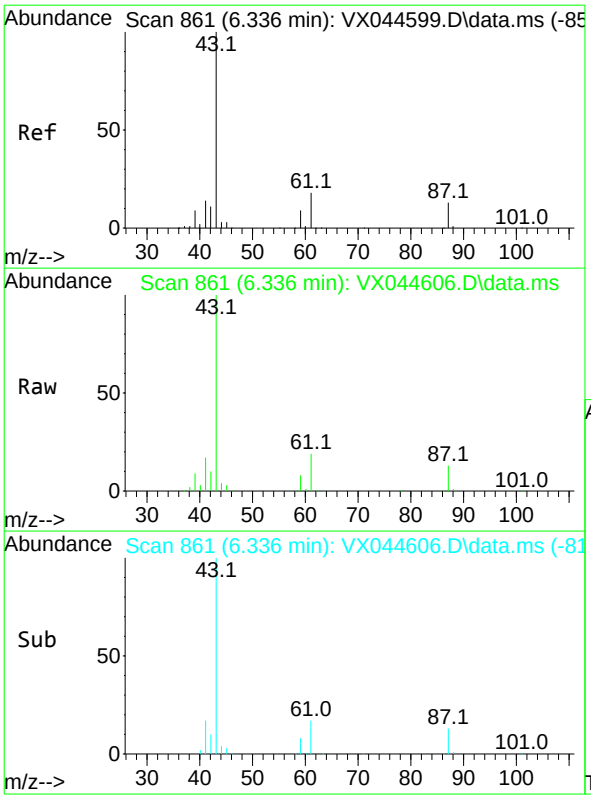


#42
1,2-Dichloroethane
Concen: 18.887 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 62 Resp: 77836

Ion	Ratio	Lower	Upper
62	100		
98	8.3	0.0	15.8

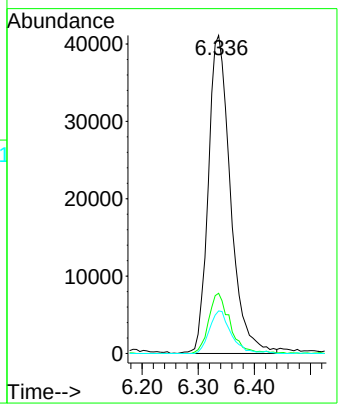




#43
Isopropyl Acetate
Concen: 19.972 ug/l
RT: 6.336 min Scan# 86
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 43 Resp: 112810

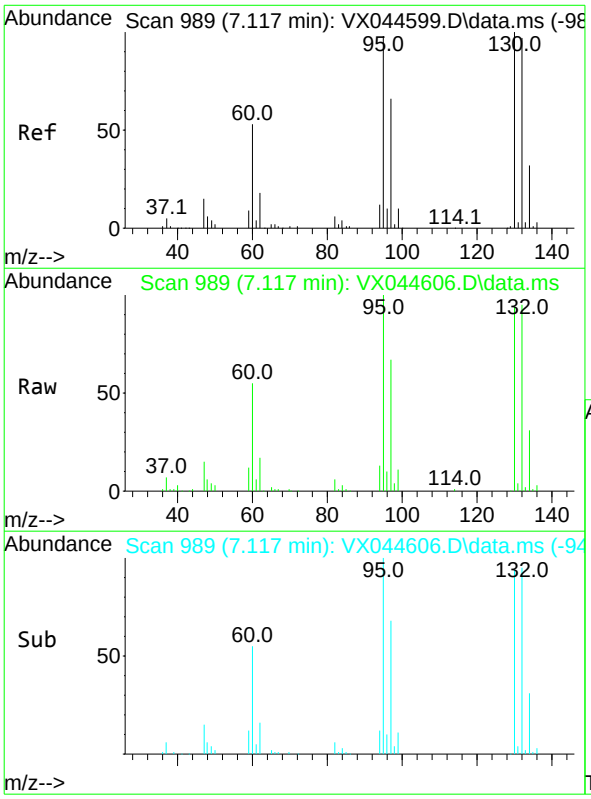
Ion	Ratio	Lower	Upper
43	100		
61	18.3	14.5	21.7
87	12.8	10.1	15.1



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Manual Integrations
APPROVED

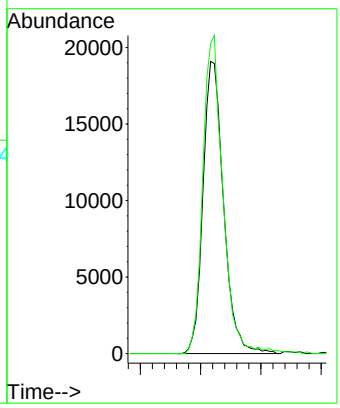
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

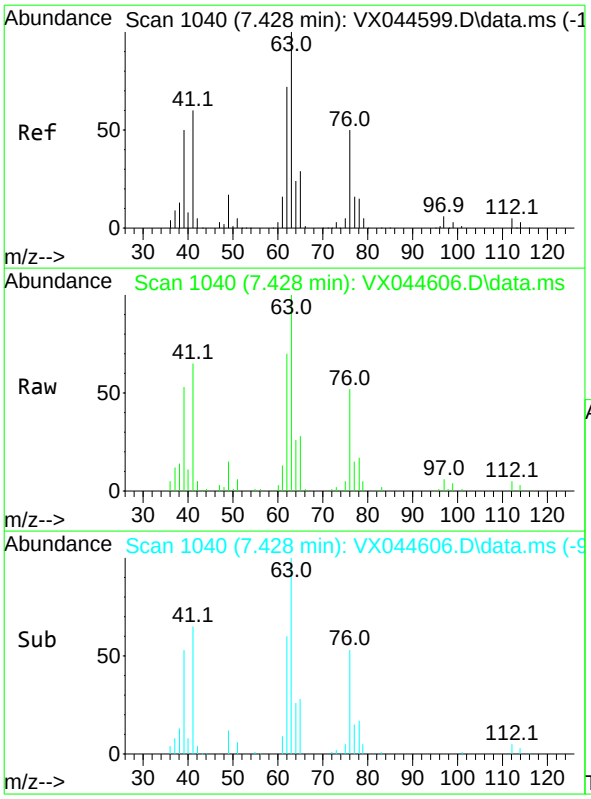


#44
Trichloroethene
Concen: 16.798 ug/l
RT: 7.117 min Scan# 989
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion:130 Resp: 45250

Ion	Ratio	Lower	Upper
130	100		
95	106.2	0.0	195.6

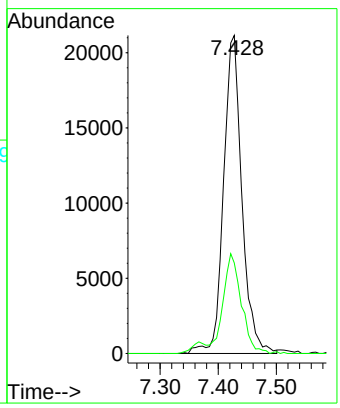




#45
1,2-Dichloropropane
Concen: 18.026 ug/l
RT: 7.428 min Scan# 10
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 63 Resp: 46312

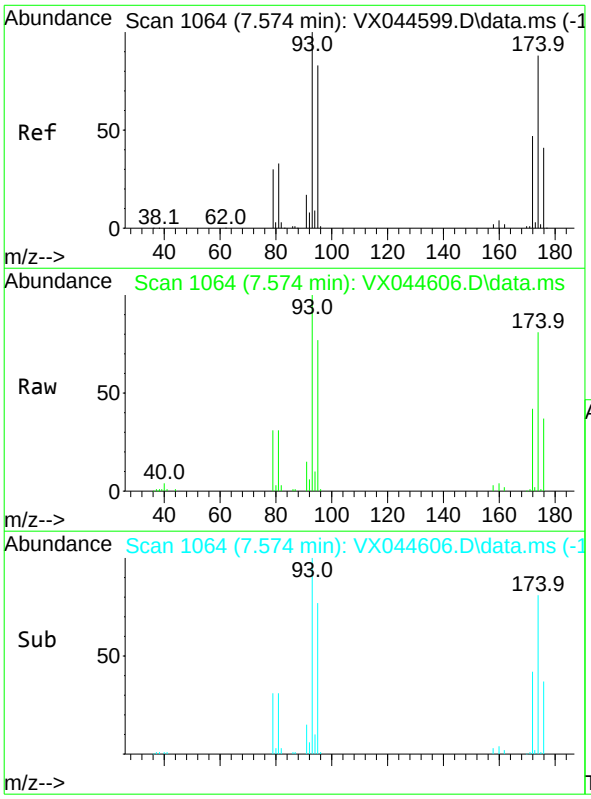
Ion	Ratio	Lower	Upper
63	100		
65	28.5	23.0	34.4



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Manual Integrations APPROVED

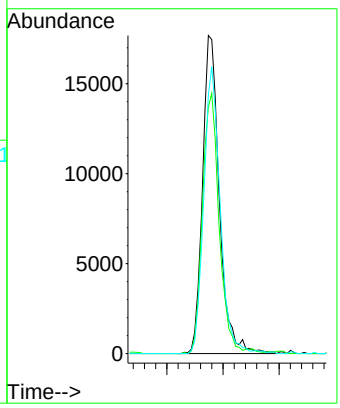
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

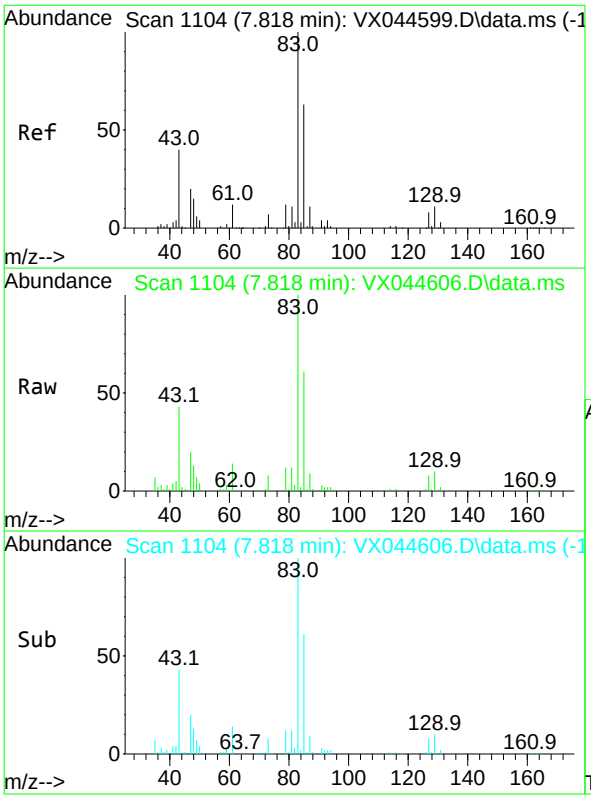


#46
Dibromomethane
Concen: 18.379 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 93 Resp: 36722

Ion	Ratio	Lower	Upper
93	100		
95	81.0	65.8	98.6
174	87.6	73.4	110.0

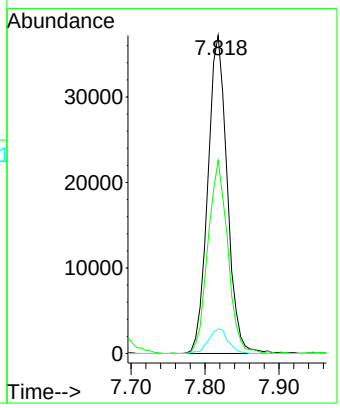




#47
Bromodichloromethane
Concen: 18.612 ug/l
RT: 7.818 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 83 Resp: 67673

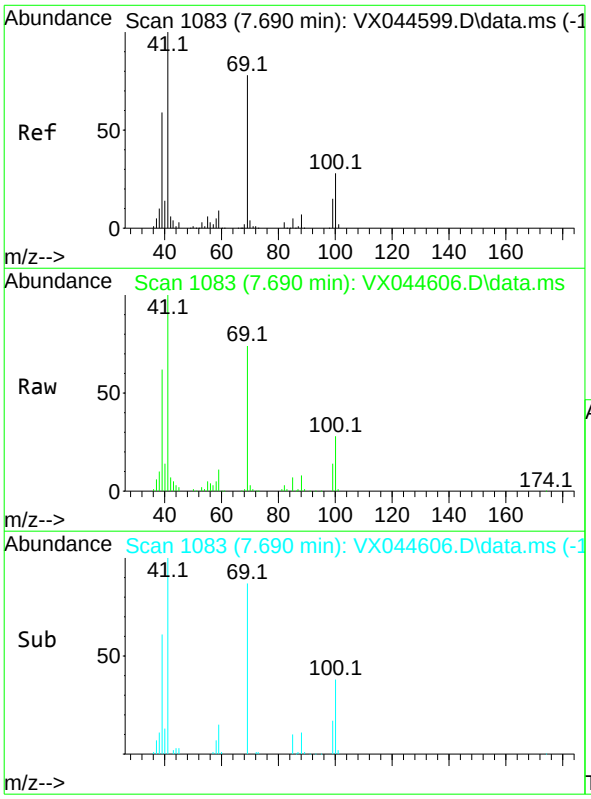
Ion	Ratio	Lower	Upper
83	100		
85	60.7	50.4	75.6
127	7.7	6.2	9.4



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Manual Integrations APPROVED

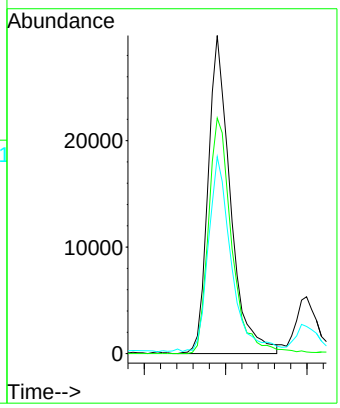
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

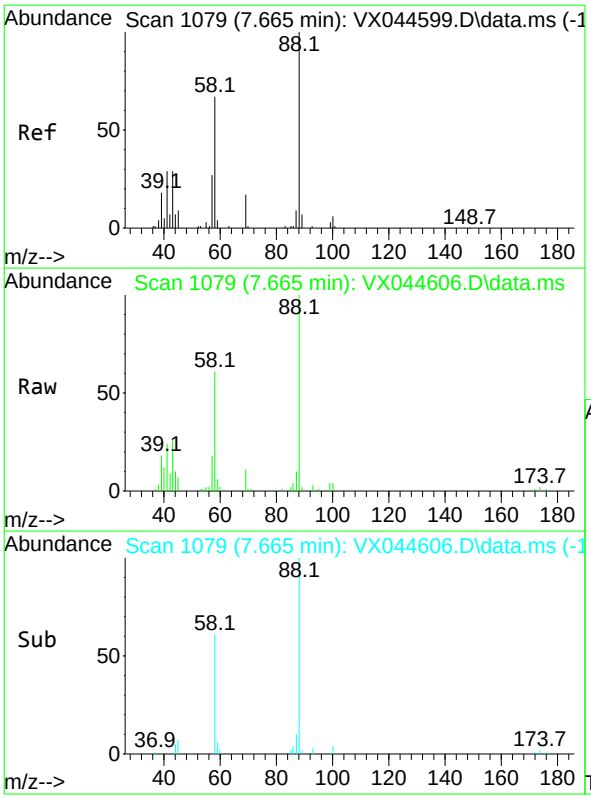


#48
Methyl methacrylate
Concen: 21.108 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 41 Resp: 56864

Ion	Ratio	Lower	Upper
41	100		
69	77.5	62.9	94.3
39	62.1	48.9	73.3

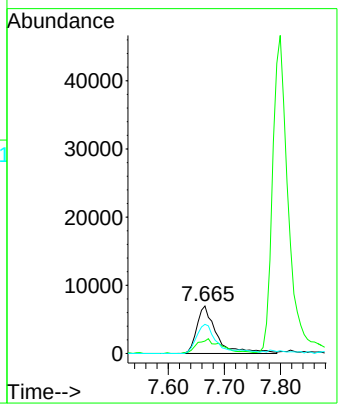




#49
1,4-Dioxane
Concen: 432.961 ug/l
RT: 7.665 min Scan# 10
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 88 Resp: 17140

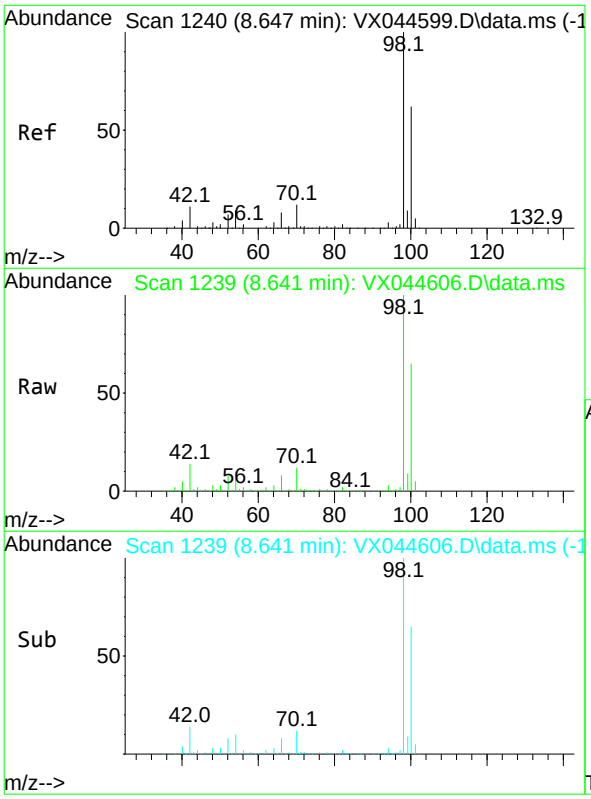
Ion	Ratio	Lower	Upper
88	100		
43	38.7	29.5	44.3
58	58.5	56.3	84.5



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Manual Integrations APPROVED

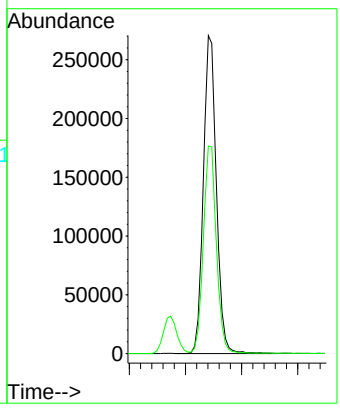
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

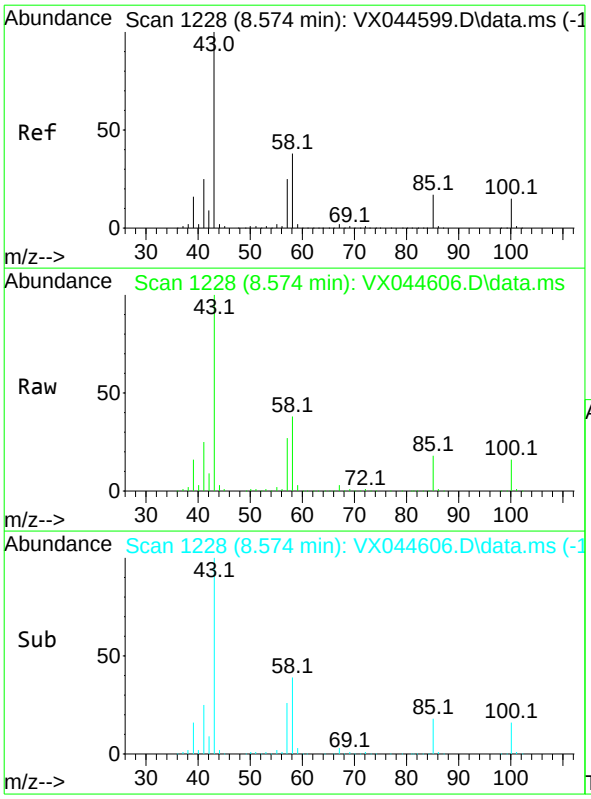


#50
Toluene-d8
Concen: 49.256 ug/l
RT: 8.641 min Scan# 1239
Delta R.T. -0.006 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 98 Resp: 435468

Ion	Ratio	Lower	Upper
98	100		
100	65.2	52.5	78.7

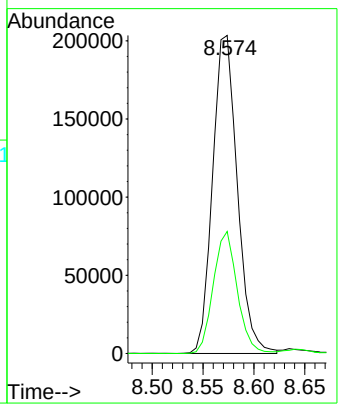




#51
4-Methyl-2-Pentanone
Concen: 104.227 ug/l
RT: 8.574 min Scan# 12
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 43 Resp: 344130

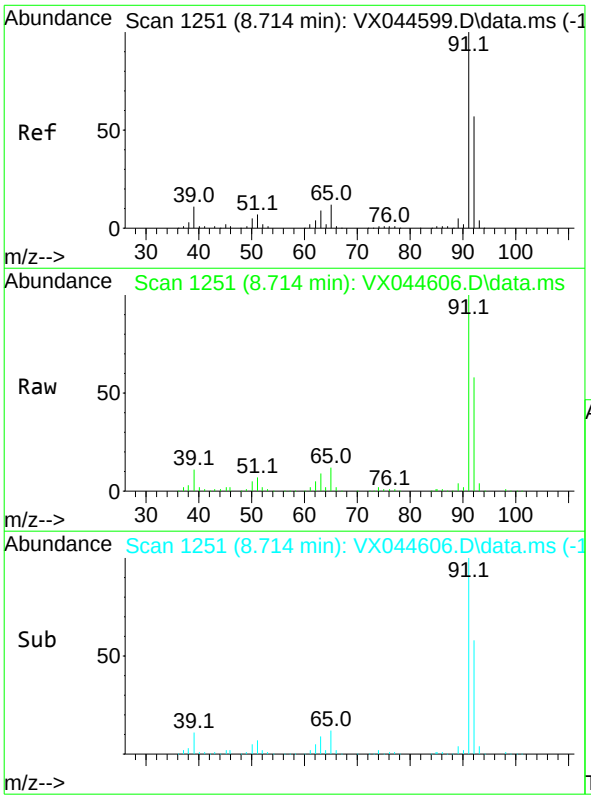
Ion	Ratio	Lower	Upper
43	100		
58	37.2	30.0	45.0



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Manual Integrations APPROVED

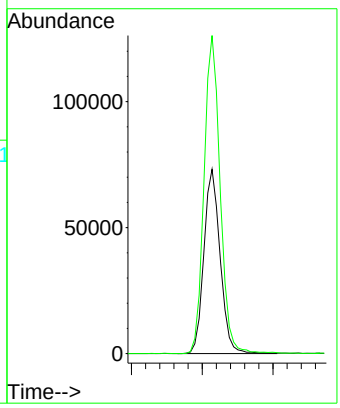
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

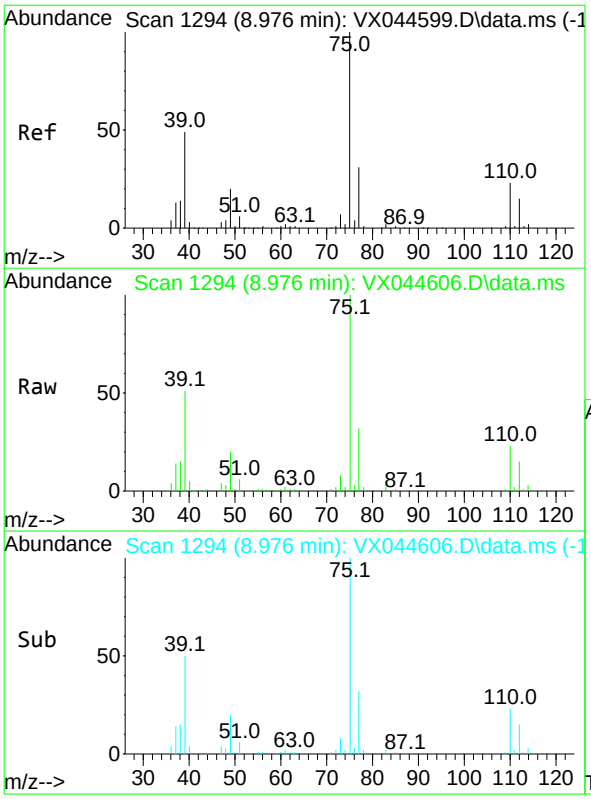


#52
Toluene
Concen: 18.356 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 92 Resp: 116712

Ion	Ratio	Lower	Upper
92	100		
91	171.5	140.6	210.8

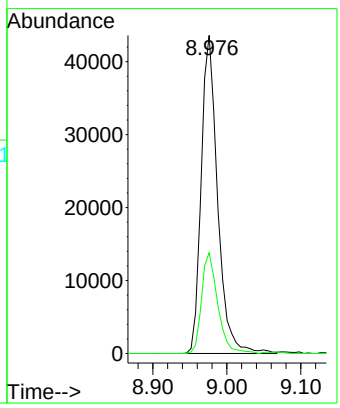




#53
t-1,3-Dichloropropene
Concen: 19.300 ug/l
RT: 8.976 min Scan# 12
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 75 Resp: 67077

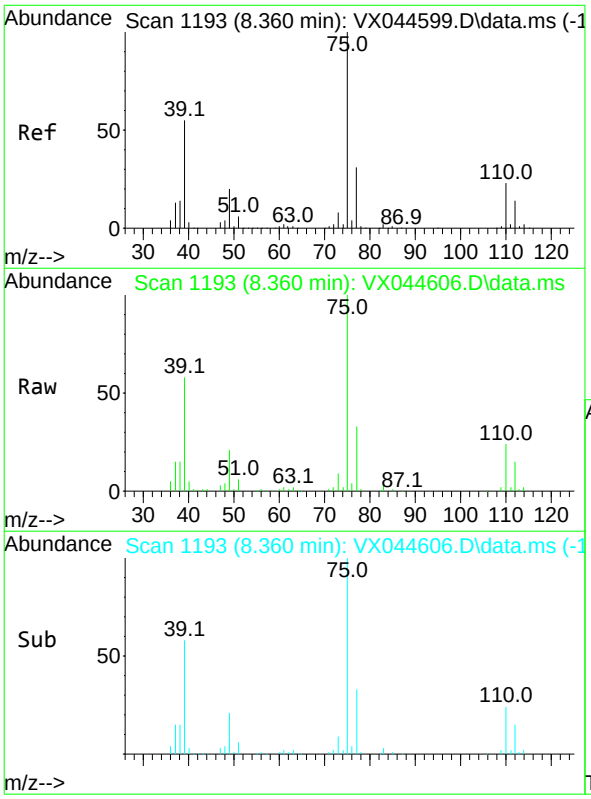
Ion	Ratio	Lower	Upper
75	100		
77	31.7	24.8	37.2



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Manual Integrations APPROVED

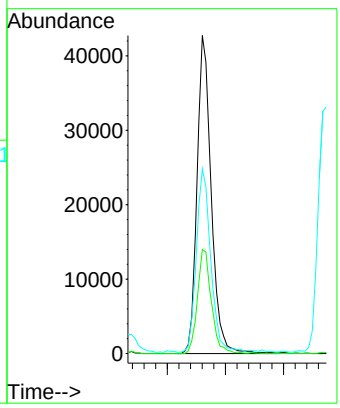
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

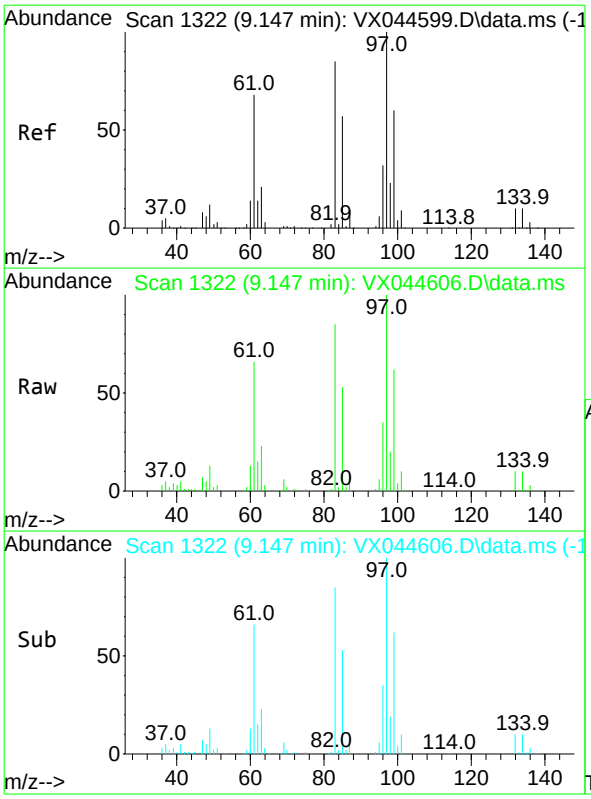


#54
cis-1,3-Dichloropropene
Concen: 18.556 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 75 Resp: 72482

Ion	Ratio	Lower	Upper
75	100		
77	32.8	24.5	36.7
39	57.7	44.3	66.5

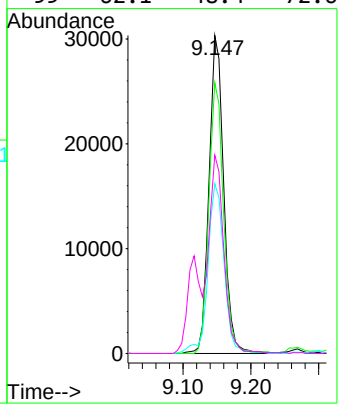




#55
1,1,2-Trichloroethane
Concen: 18.303 ug/l
RT: 9.147 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 97 Resp: 45623

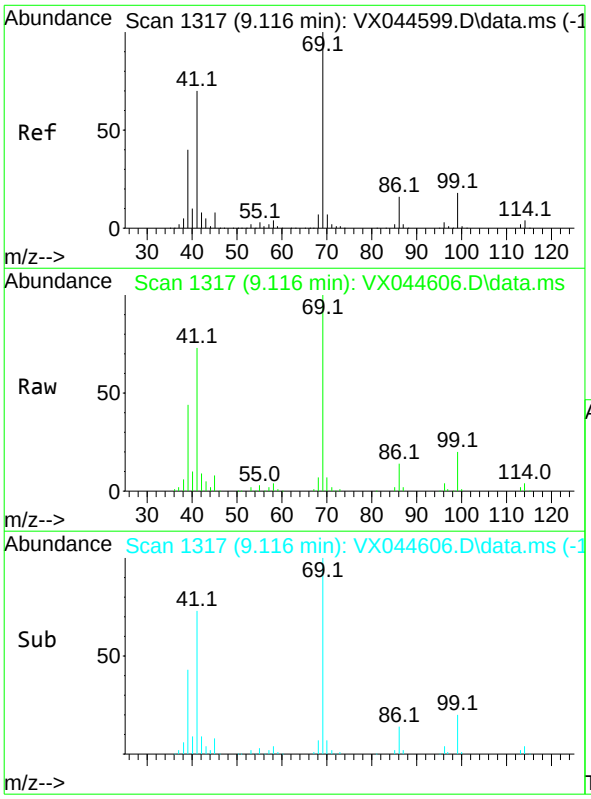
Ion	Ratio	Lower	Upper
97	100		
83	85.2	68.0	102.0
85	53.4	45.4	68.0
99	62.1	48.4	72.6



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Manual Integrations APPROVED

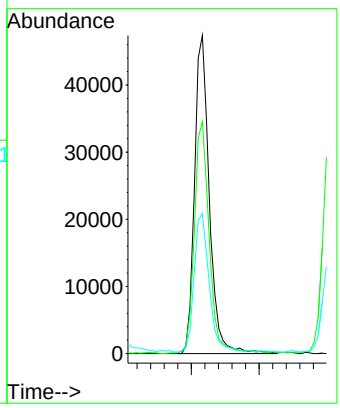
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

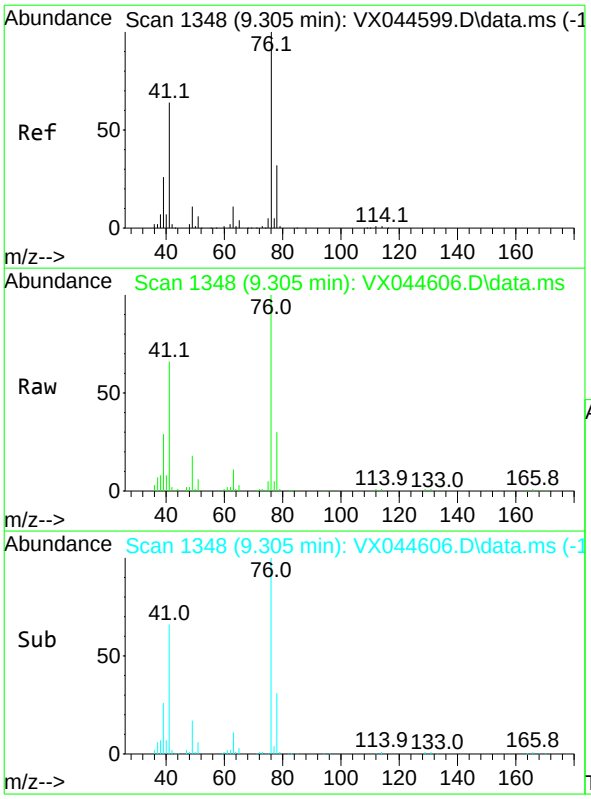


#56
Ethyl methacrylate
Concen: 19.791 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 69 Resp: 71741

Ion	Ratio	Lower	Upper
69	100		
41	73.6	57.7	86.5
39	44.4	33.7	50.5

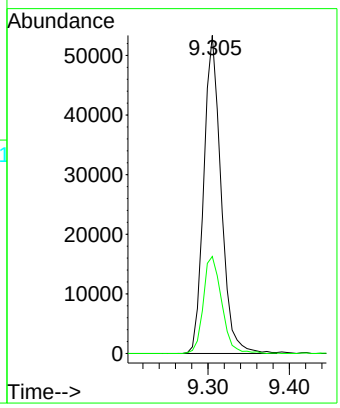




#57
1,3-Dichloropropane
Concen: 18.819 ug/l
RT: 9.305 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 76 Resp: 78769

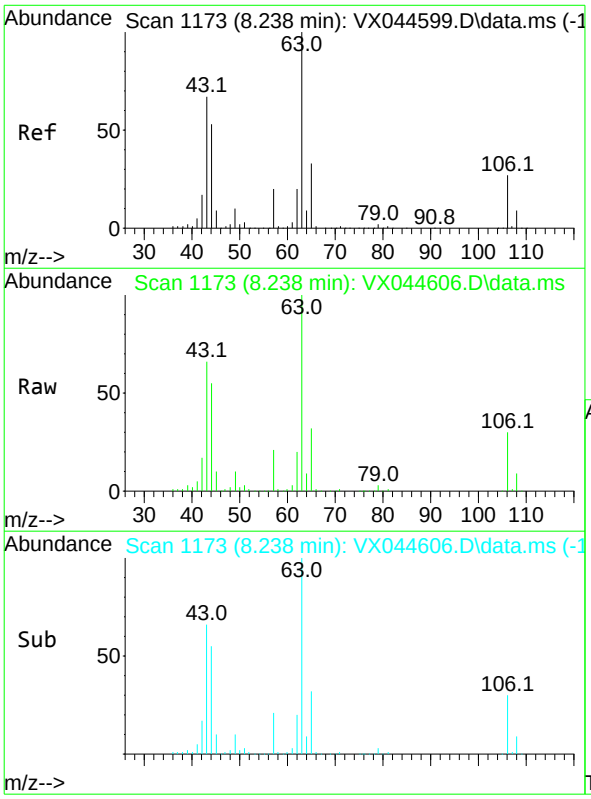
Ion	Ratio	Lower	Upper
76	100		
78	32.4	25.8	38.8



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Manual Integrations APPROVED

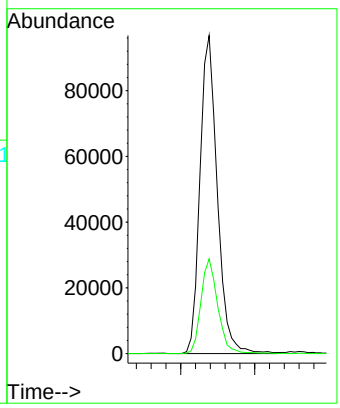
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

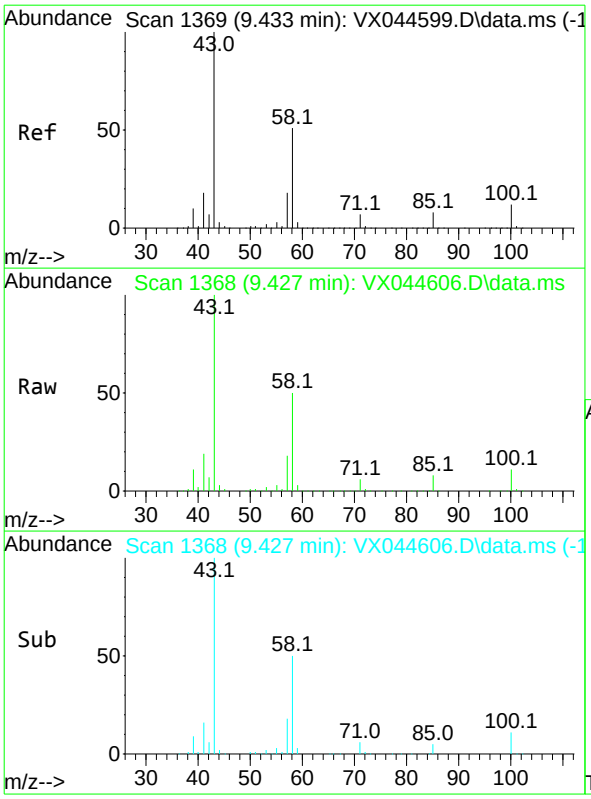


#58
2-Chloroethyl Vinyl ether
Concen: 87.493 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 63 Resp: 157231

Ion	Ratio	Lower	Upper
63	100		
106	28.8	22.4	33.6

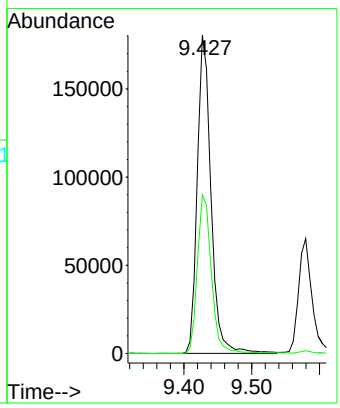




#59
2-Hexanone
Concen: 108.615 ug/l
RT: 9.427 min Scan# 13
Delta R.T. -0.006 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 43 Resp: 253622

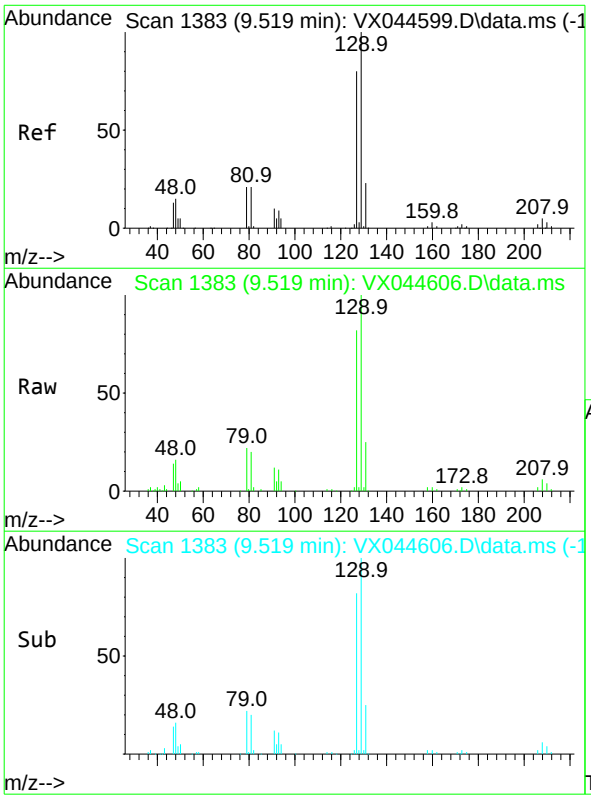
Ion	Ratio	Lower	Upper
43	100		
58	51.2	25.4	76.4



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Manual Integrations APPROVED

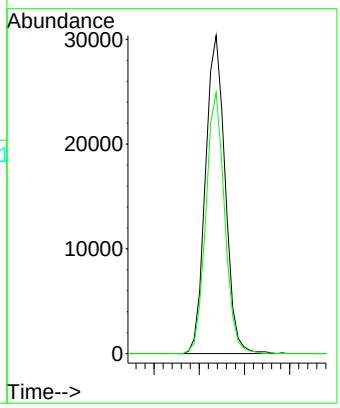
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

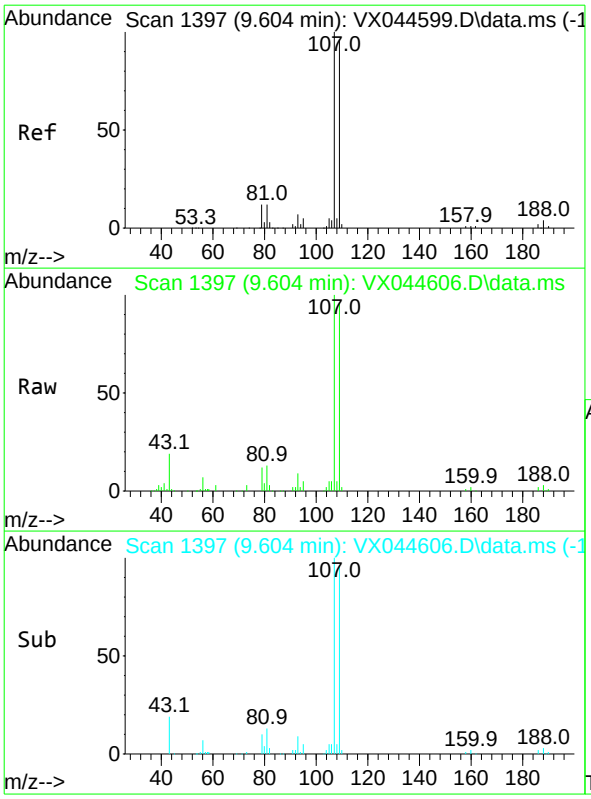


#60
Dibromochloromethane
Concen: 18.434 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion:129 Resp: 45815

Ion	Ratio	Lower	Upper
129	100		
127	78.6	38.9	116.7

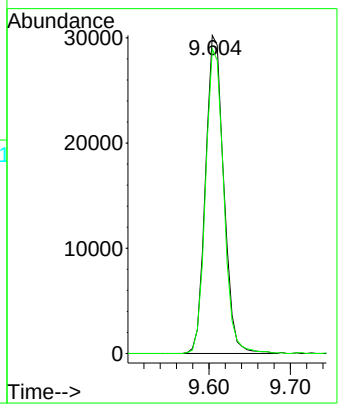




#61
1,2-Dibromoethane
Concen: 18.696 ug/l
RT: 9.604 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion:107 Resp: 47065

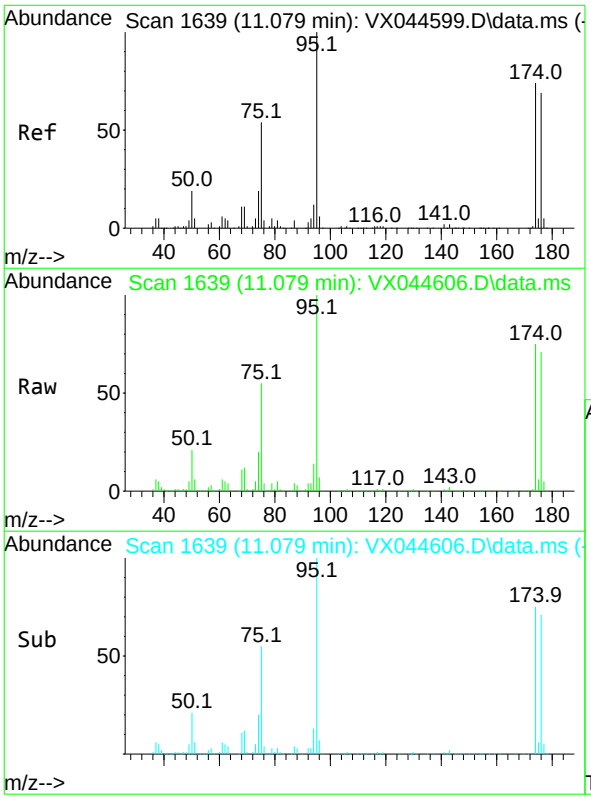
Ion	Ratio	Lower	Upper
107	100		
109	95.3	76.7	115.1



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Manual Integrations
APPROVED

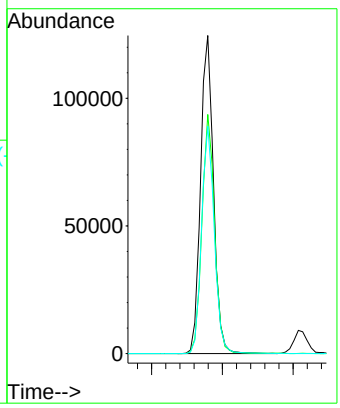
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

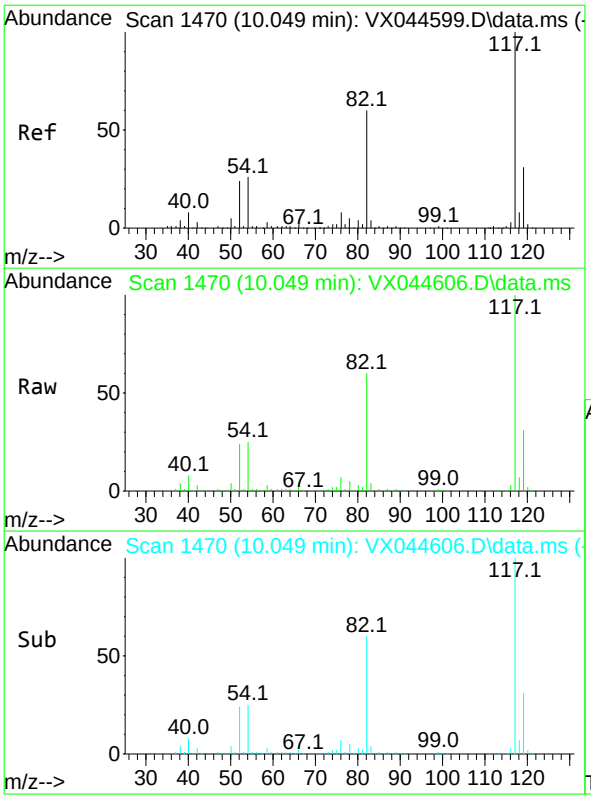


#62
4-Bromofluorobenzene
Concen: 50.462 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 95 Resp: 157465

Ion	Ratio	Lower	Upper
95	100		
174	73.7	0.0	148.8
176	70.7	0.0	139.8

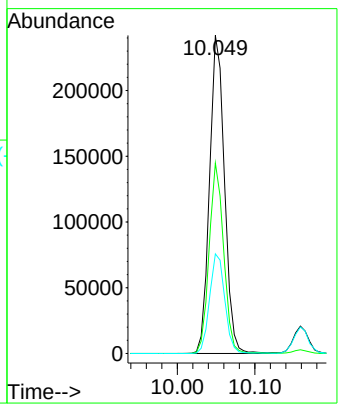




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion:117 Resp: 324333

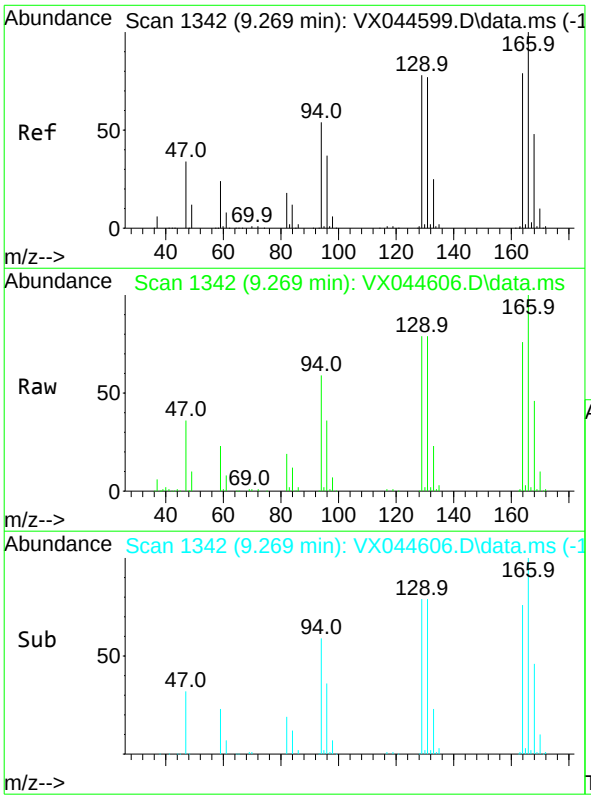
Ion	Ratio	Lower	Upper
117	100		
82	59.9	47.8	71.6
119	31.3	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Manual Integrations APPROVED

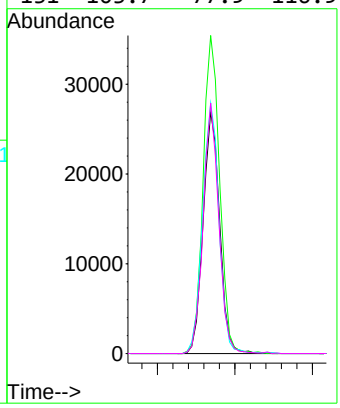
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

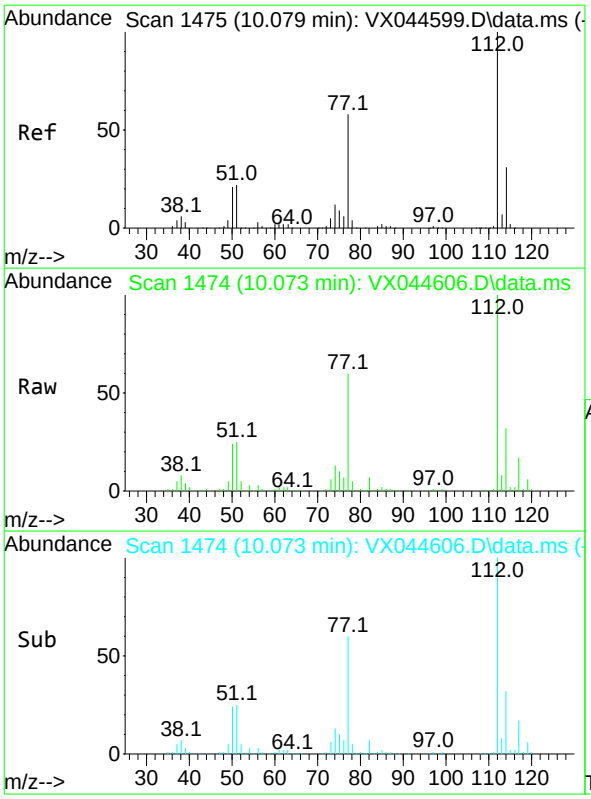


#64
Tetrachloroethene
Concen: 17.340 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion:164 Resp: 39764

Ion	Ratio	Lower	Upper
164	100		
166	131.7	101.5	152.3
129	103.8	78.9	118.3
131	103.7	77.9	116.9

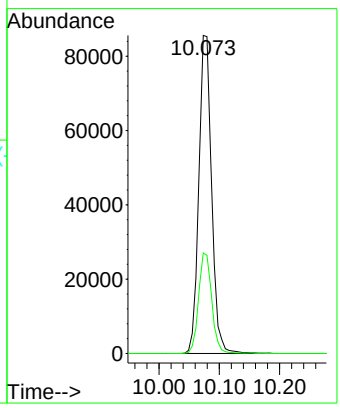




#65
Chlorobenzene
Concen: 18.278 ug/l
RT: 10.073 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion:112 Resp: 125819

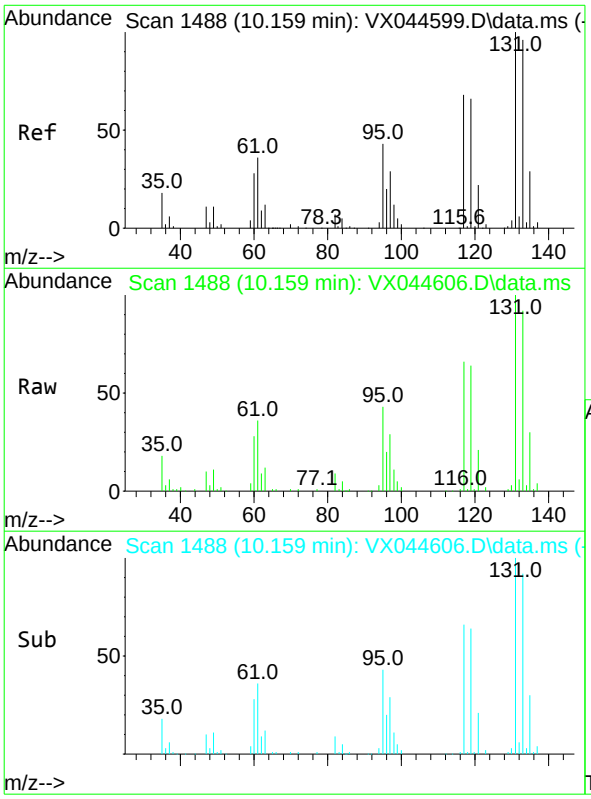
Ion	Ratio	Lower	Upper
112	100		
114	31.6	25.0	37.4



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Manual Integrations APPROVED

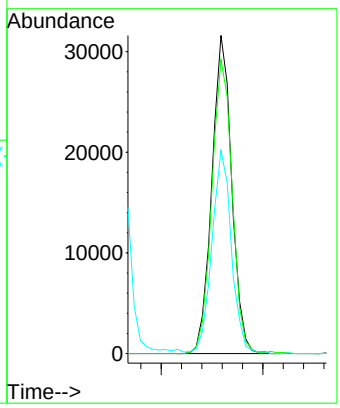
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

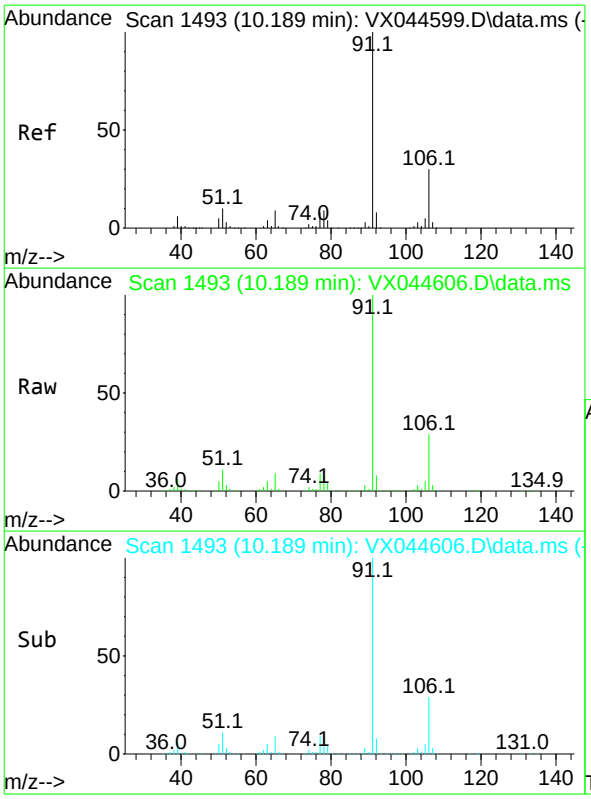


#66
1,1,1,2-Tetrachloroethane
Concen: 18.761 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion:131 Resp: 42891

Ion	Ratio	Lower	Upper
131	100		
133	94.4	48.0	144.0
119	62.9	32.8	98.4

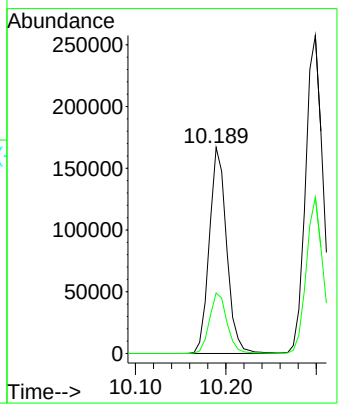




#67
Ethyl Benzene
Concen: 18.804 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 91 Resp: 222270

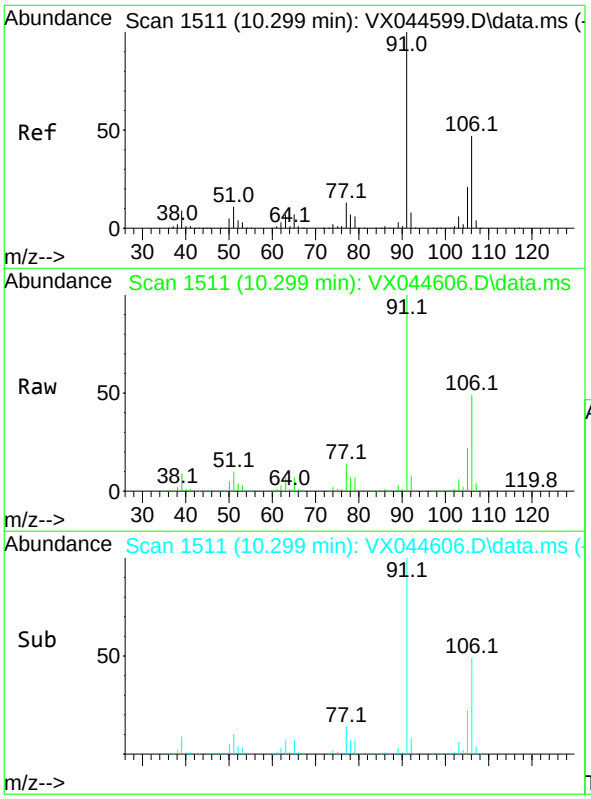
Ion	Ratio	Lower	Upper
91	100		
106	29.4	23.8	35.8



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Manual Integrations
APPROVED

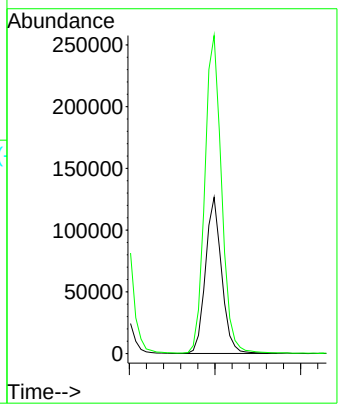
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

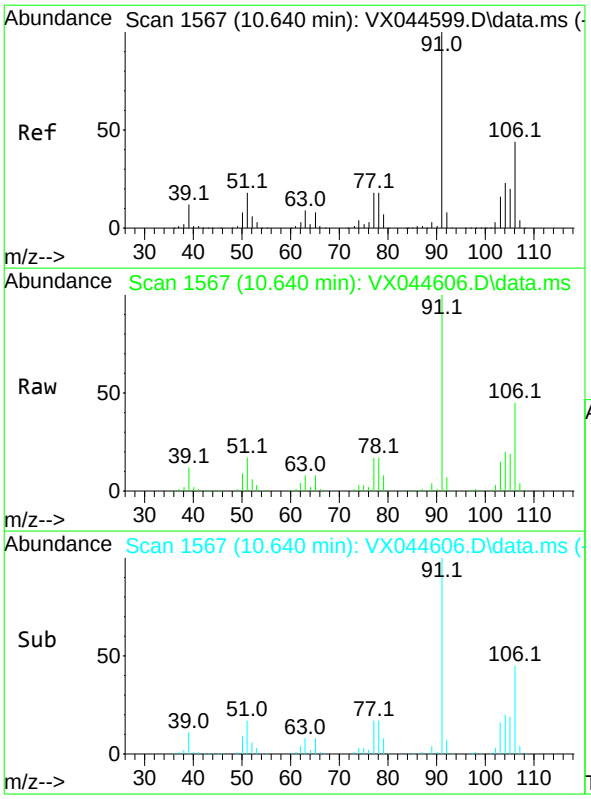


#68
m/p-Xylenes
Concen: 38.006 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion:106 Resp: 165085

Ion	Ratio	Lower	Upper
106	100		
91	212.1	170.4	255.6

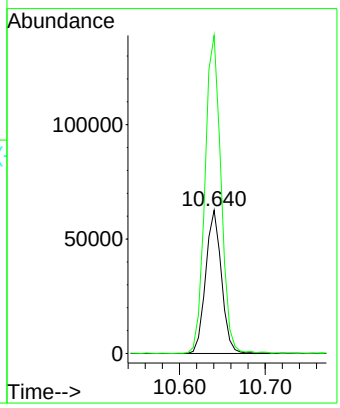




#69
o-Xylene
Concen: 18.274 ug/l
RT: 10.640 min Scan# 15
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion:106 Resp: 80120

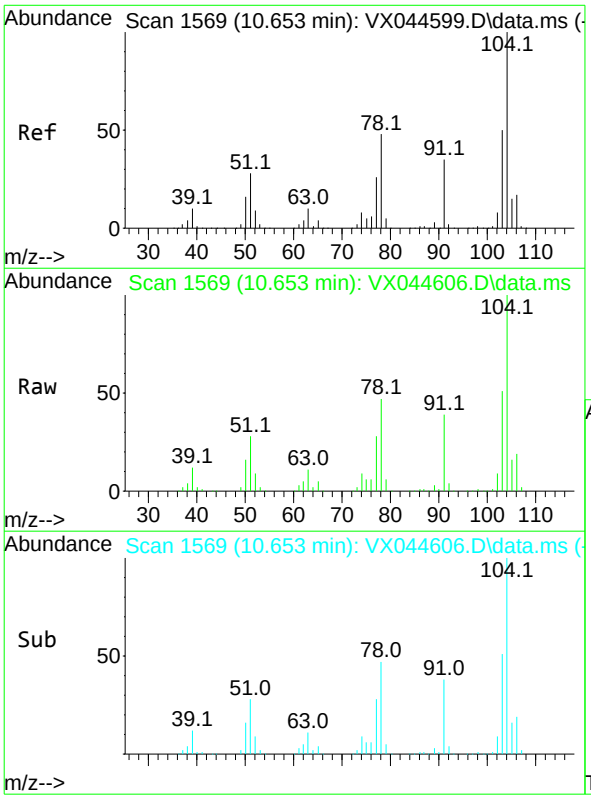
Ion	Ratio	Lower	Upper
106	100		
91	225.9	112.3	336.8



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Manual Integrations
APPROVED

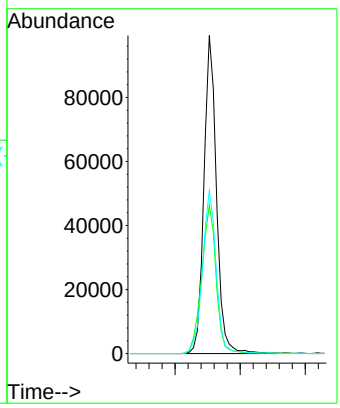
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

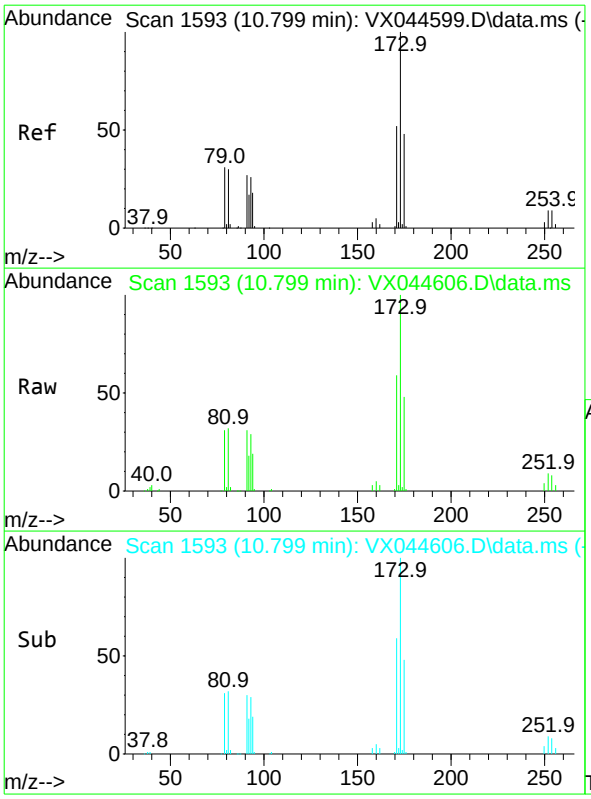


#70
Styrene
Concen: 18.940 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion:104 Resp: 132817

Ion	Ratio	Lower	Upper
104	100		
78	53.9	44.0	66.0
103	56.3	43.8	65.6

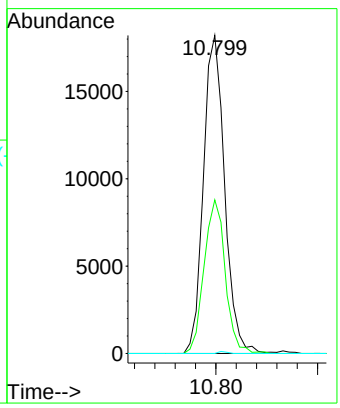




#71
Bromoform
Concen: 17.838 ug/l
RT: 10.799 min Scan# 15
Delta R.T. -0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion:173 Resp: 26348

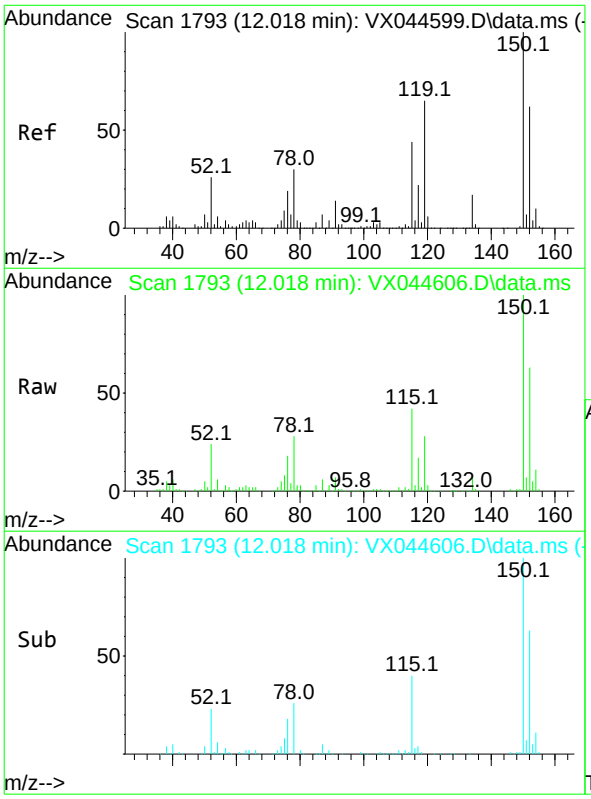
Ion	Ratio	Lower	Upper
173	100		
175	48.2	24.6	73.8
254	0.3	0.0	0.0#



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Manual Integrations
APPROVED

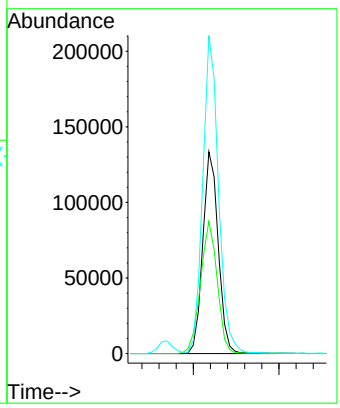
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

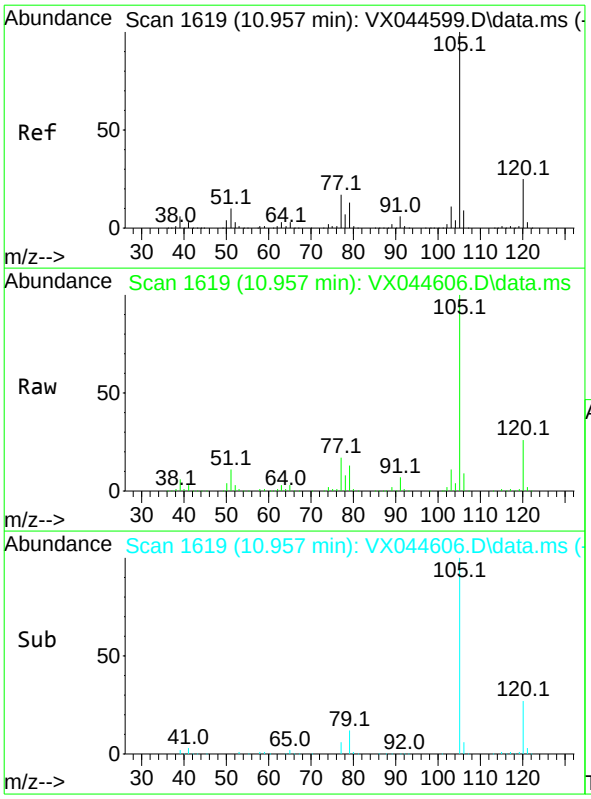


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion:152 Resp: 167120

Ion	Ratio	Lower	Upper
152	100		
115	70.9	44.4	133.1
150	160.5	0.0	355.0

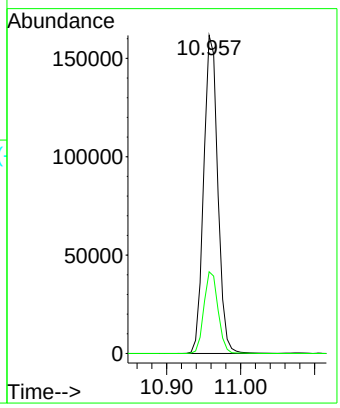




#73
Isopropylbenzene
Concen: 17.230 ug/l
RT: 10.957 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion:105 Resp: 213335

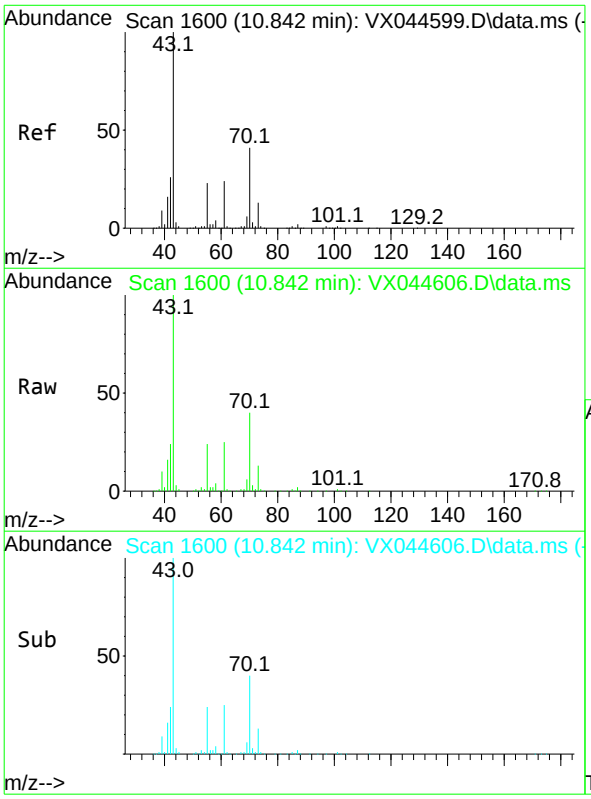
Ion	Ratio	Lower	Upper
105	100		
120	25.8	13.0	38.9



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Manual Integrations APPROVED

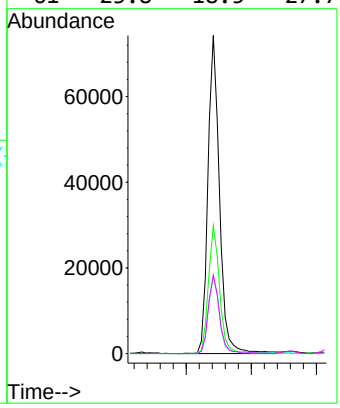
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

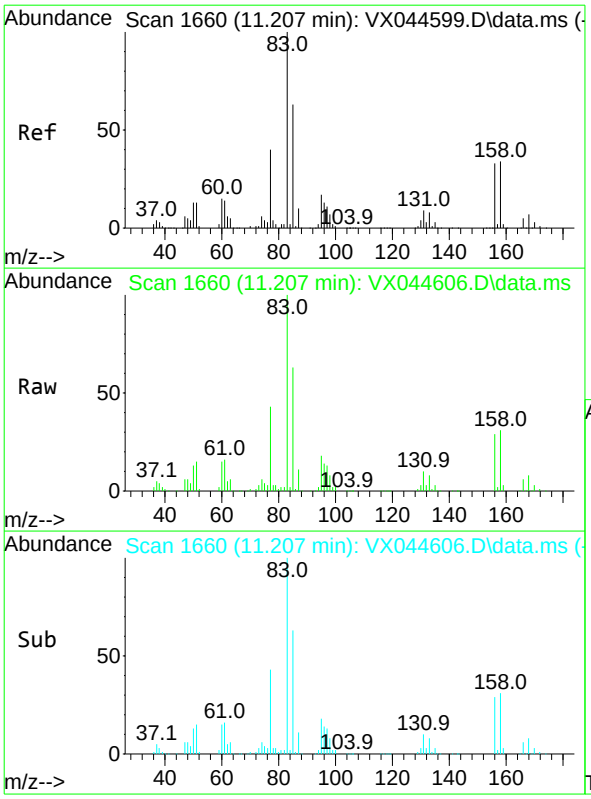


#74
N-amyl acetate
Concen: 18.157 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 43 Resp: 91220

Ion	Ratio	Lower	Upper
43	100		
70	39.1	32.9	49.3
55	24.1	19.0	28.6
61	23.8	18.5	27.7

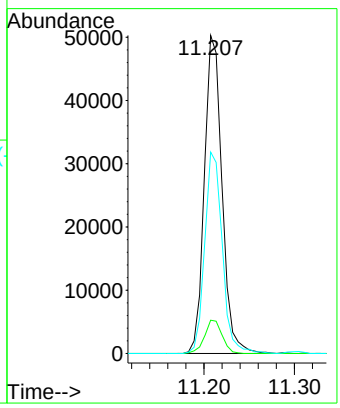




#75
1,1,2,2-Tetrachloroethane
Concen: 17.074 ug/l
RT: 11.207 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 83 Resp: 68139

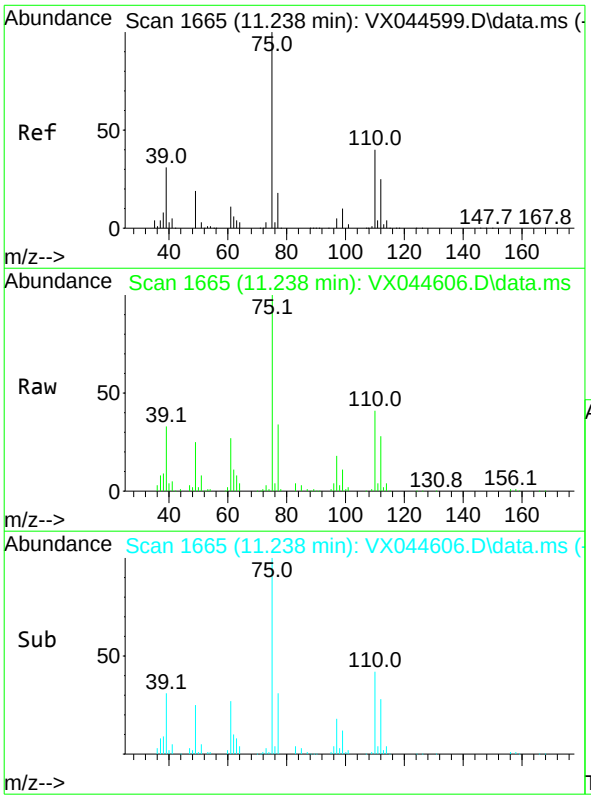
Ion	Ratio	Lower	Upper
83	100		
131	10.4	5.0	15.0
85	63.2	31.9	95.5



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Manual Integrations APPROVED

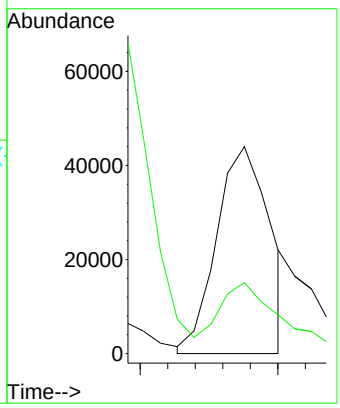
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

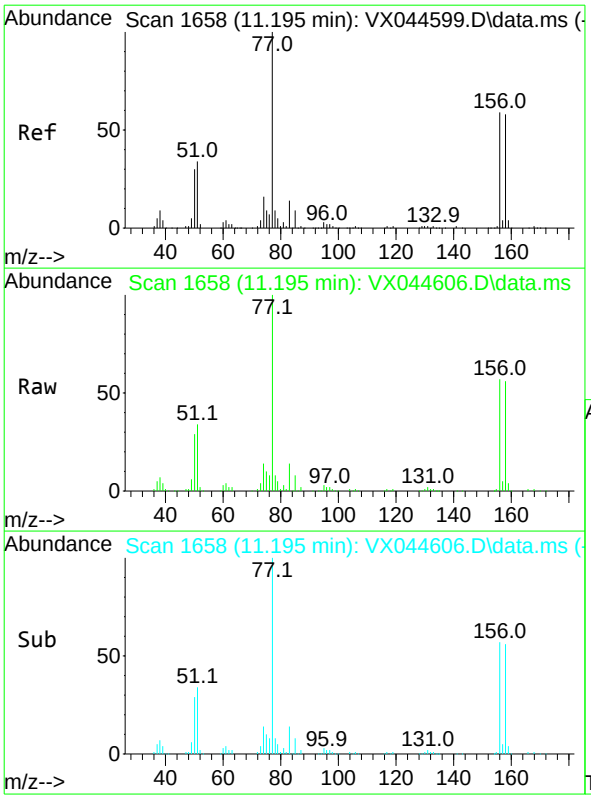


#76
1,2,3-Trichloropropane
Concen: 17.628 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 75 Resp: 59055

Ion	Ratio	Lower	Upper
75	100		
77	41.4	21.1	63.1

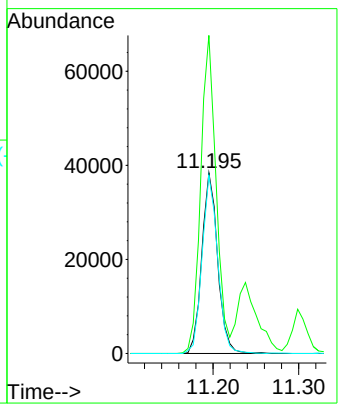




#77
Bromobenzene
Concen: 16.401 ug/l
RT: 11.195 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion:156 Resp: 49329

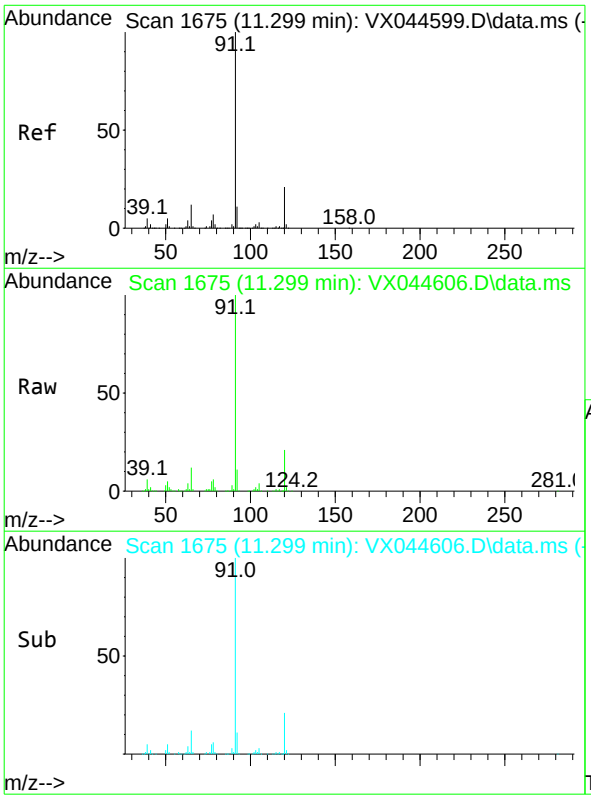
Ion	Ratio	Lower	Upper
156	100		
77	171.7	85.7	257.1
158	97.0	49.9	149.6



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Manual Integrations
APPROVED

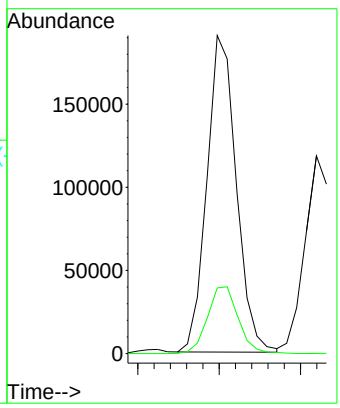
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

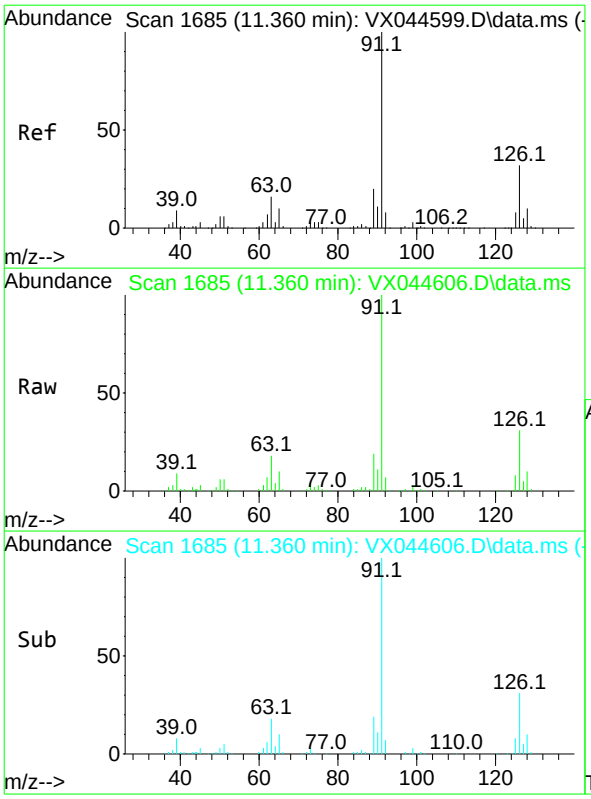


#78
n-propylbenzene
Concen: 17.152 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 91 Resp: 239201

Ion	Ratio	Lower	Upper
91	100		
120	22.1	11.2	33.5

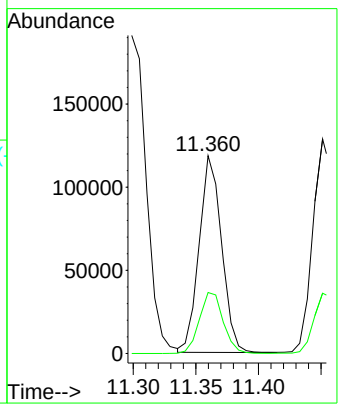




#79
2-Chlorotoluene
Concen: 16.335 ug/l
RT: 11.360 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 91 Resp: 147621

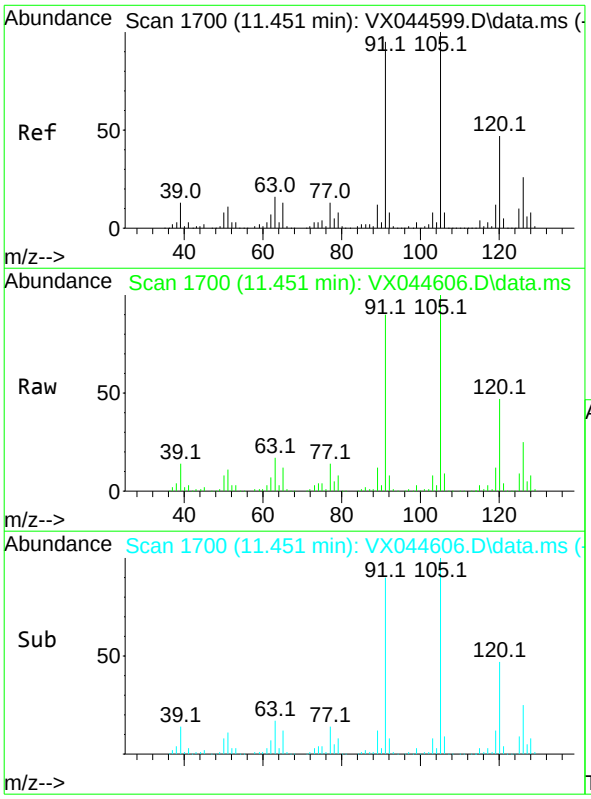
Ion	Ratio	Lower	Upper
91	100		
126	32.9	16.4	49.2



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Manual Integrations
APPROVED

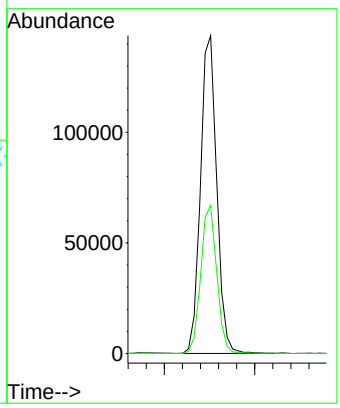
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

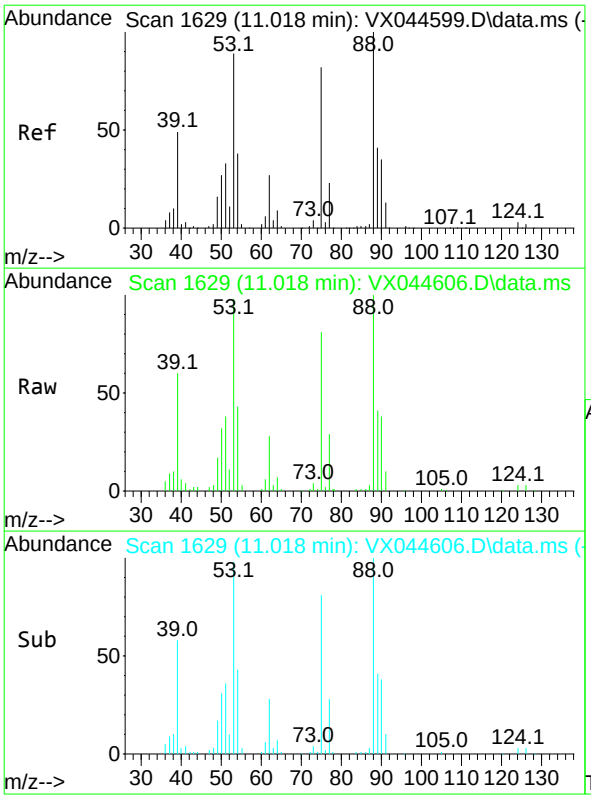


#80
1,3,5-Trimethylbenzene
Concen: 17.427 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion:105 Resp: 178900

Ion	Ratio	Lower	Upper
105	100		
120	46.3	23.5	70.5

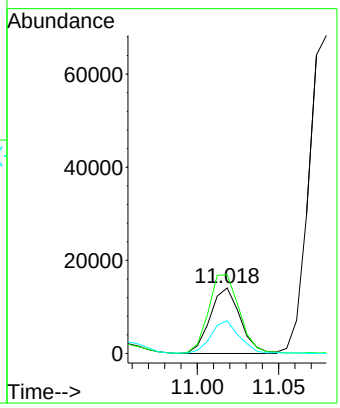




#81
trans-1,4-Dichloro-2-butene
Concen: 16.490 ug/l
RT: 11.018 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 75 Resp: 18148

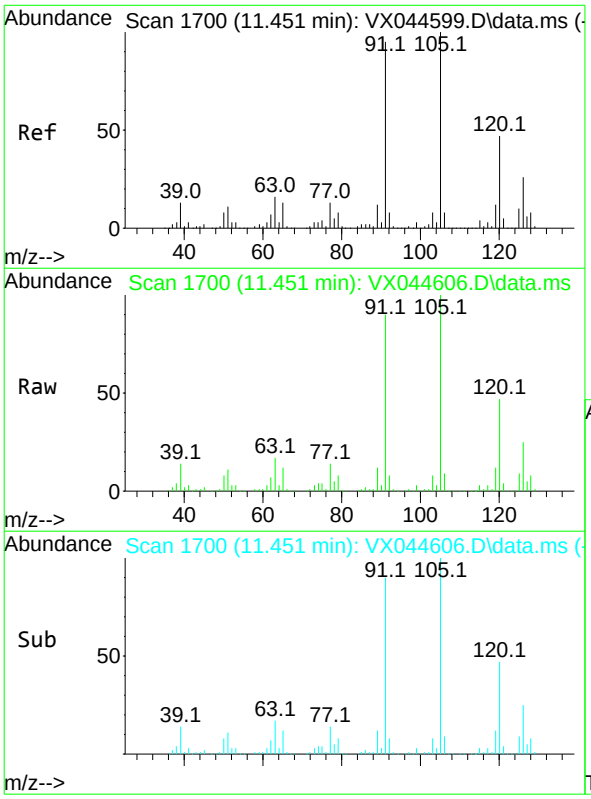
Ion	Ratio	Lower	Upper
75	100		
53	123.8	92.7	139.1
89	47.6	38.3	57.5



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Manual Integrations APPROVED

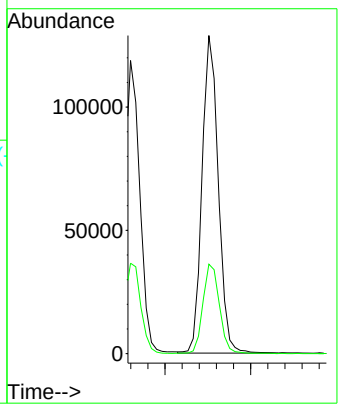
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

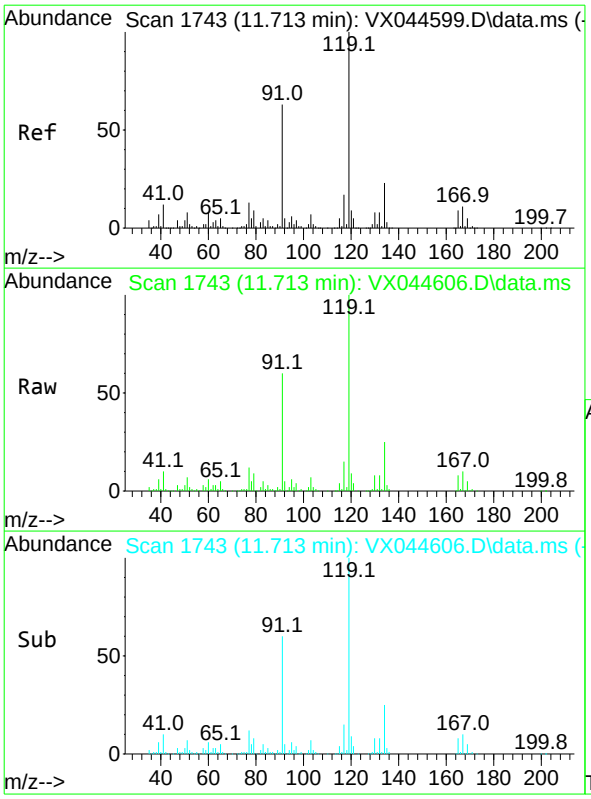


#82
4-Chlorotoluene
Concen: 16.659 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 91 Resp: 169363

Ion	Ratio	Lower	Upper
91	100		
126	28.8	14.0	42.0

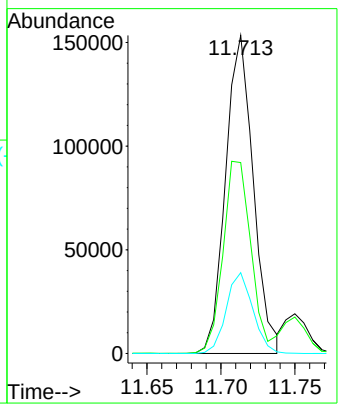




#83
tert-Butylbenzene
Concen: 19.579 ug/l
RT: 11.713 min Scan# 17
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion:119 Resp: 200140

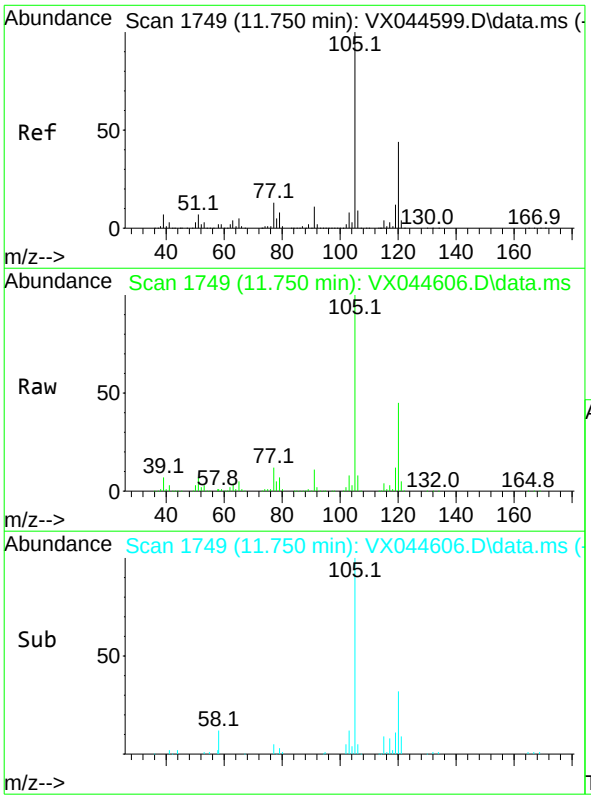
Ion	Ratio	Lower	Upper
119	100		
91	60.4	30.9	92.8
134	24.4	11.7	35.0



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Manual Integrations
APPROVED

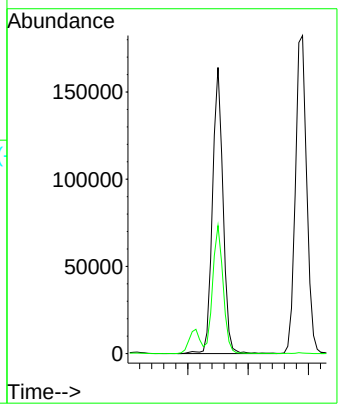
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

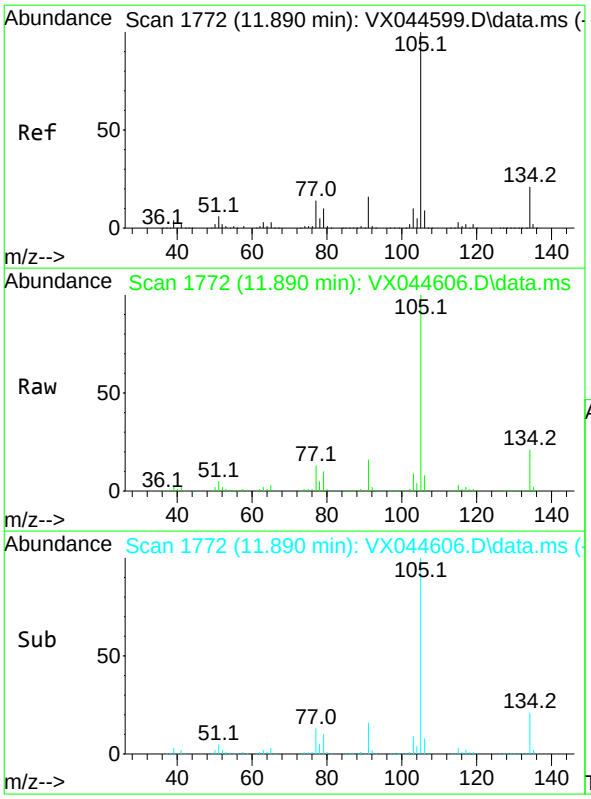


#84
1,2,4-Trimethylbenzene
Concen: 19.322 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion:105 Resp: 199250

Ion	Ratio	Lower	Upper
105	100		
120	44.8	21.9	65.7

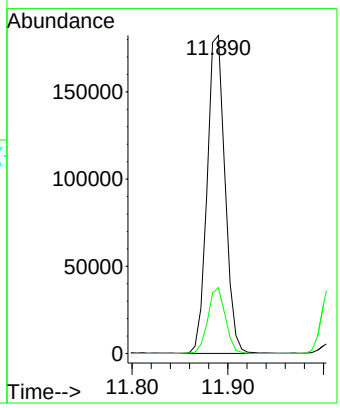




#85
sec-Butylbenzene
Concen: 18.999 ug/l
RT: 11.890 min Scan# 17
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion:105 Resp: 236525

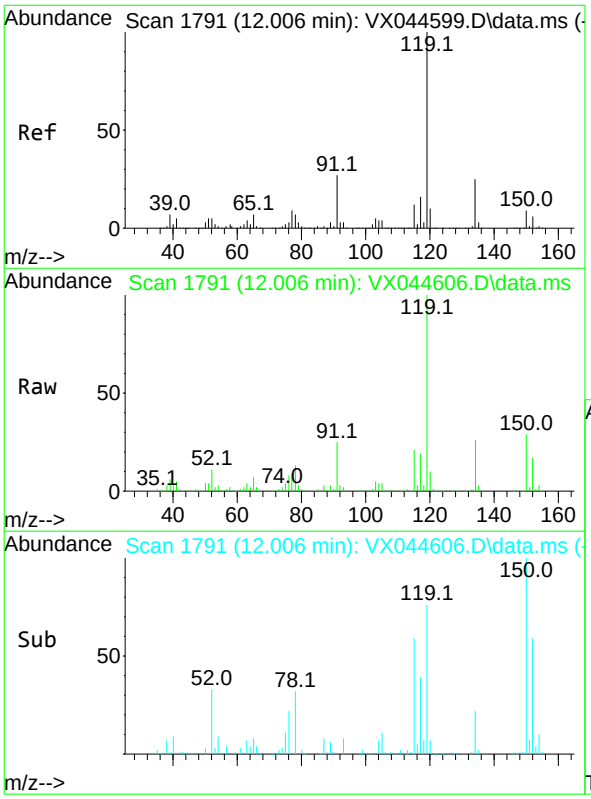
Ion	Ratio	Lower	Upper
105	100		
134	20.3	9.9	29.7



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Manual Integrations APPROVED

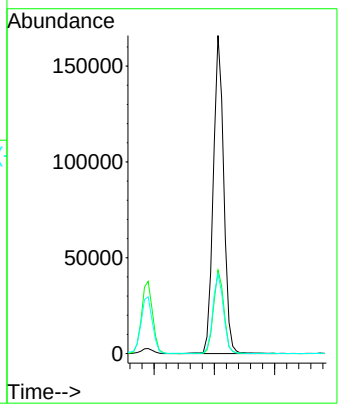
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

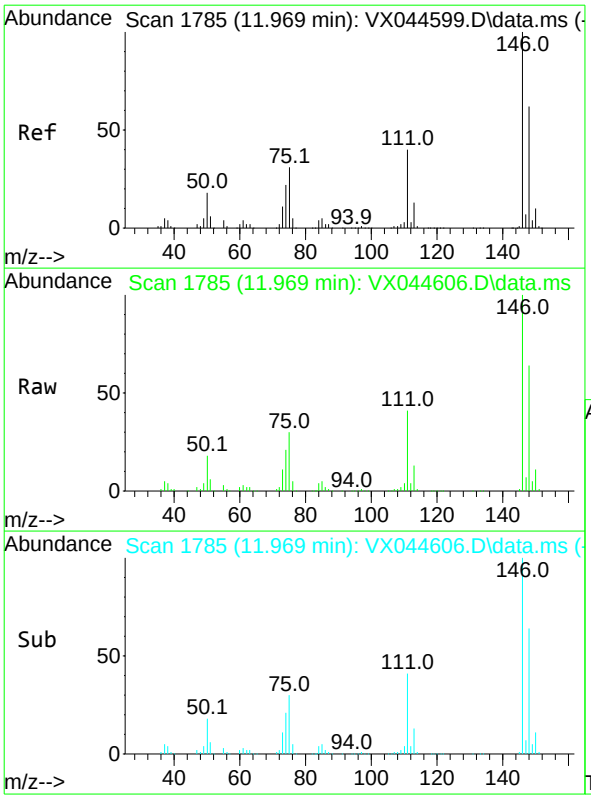


#86
p-Isopropyltoluene
Concen: 19.136 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion:119 Resp: 199894

Ion	Ratio	Lower	Upper
119	100		
134	25.9	12.6	37.8
91	25.5	13.1	39.1

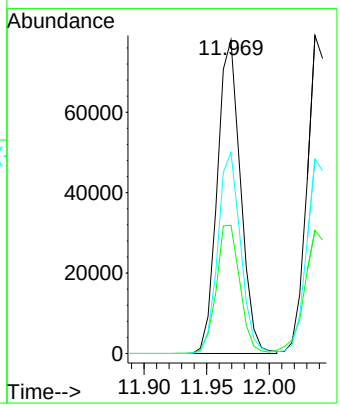




#87
1,3-Dichlorobenzene
Concen: 18.480 ug/l
RT: 11.969 min Scan# 17
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion:146 Resp: 100552

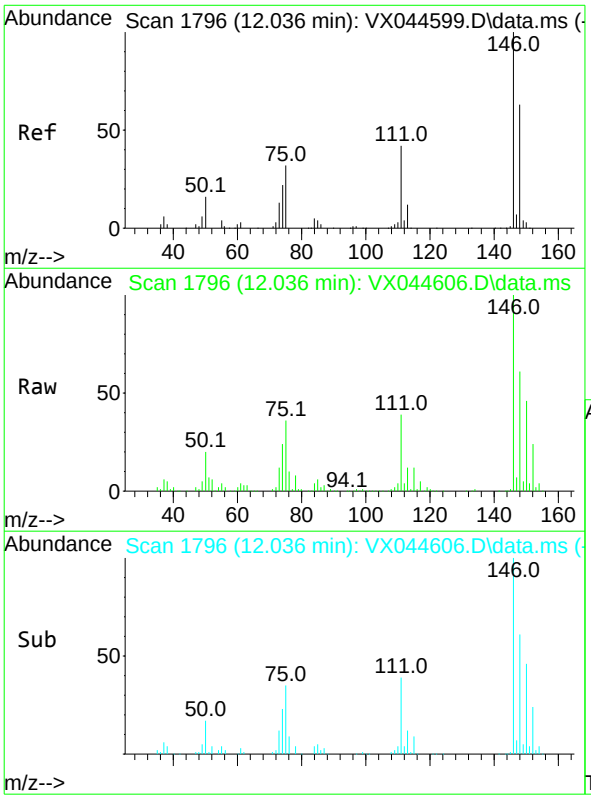
Ion	Ratio	Lower	Upper
146	100		
111	41.6	21.0	63.0
148	62.8	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Manual Integrations APPROVED

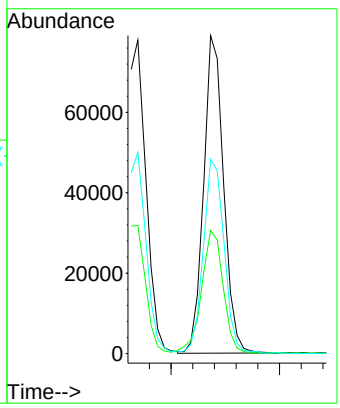
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

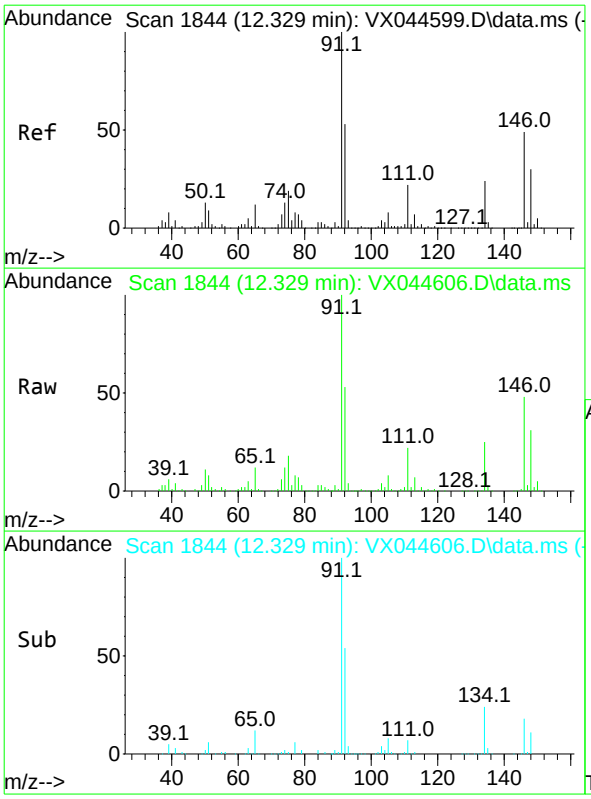


#88
1,4-Dichlorobenzene
Concen: 17.804 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion:146 Resp: 100929

Ion	Ratio	Lower	Upper
146	100		
111	42.0	20.7	62.1
148	64.2	31.8	95.4

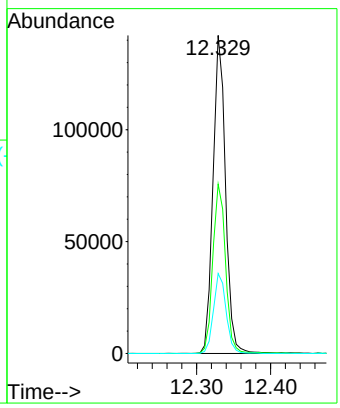




#89
n-Butylbenzene
Concen: 18.915 ug/l
RT: 12.329 min Scan# 18
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 91 Resp: 166838

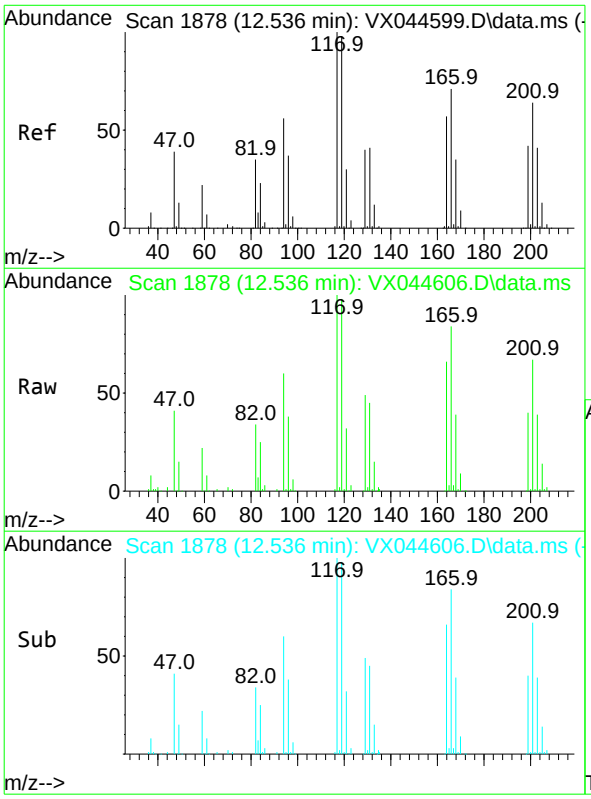
Ion	Ratio	Lower	Upper
91	100		
92	54.5	26.5	79.4
134	25.5	12.4	37.2



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Manual Integrations
APPROVED

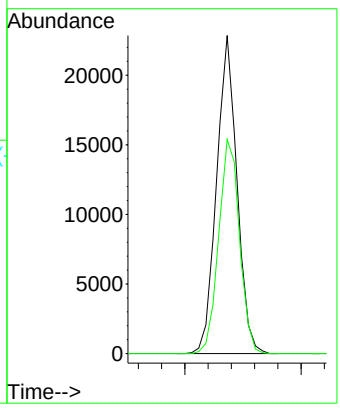
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

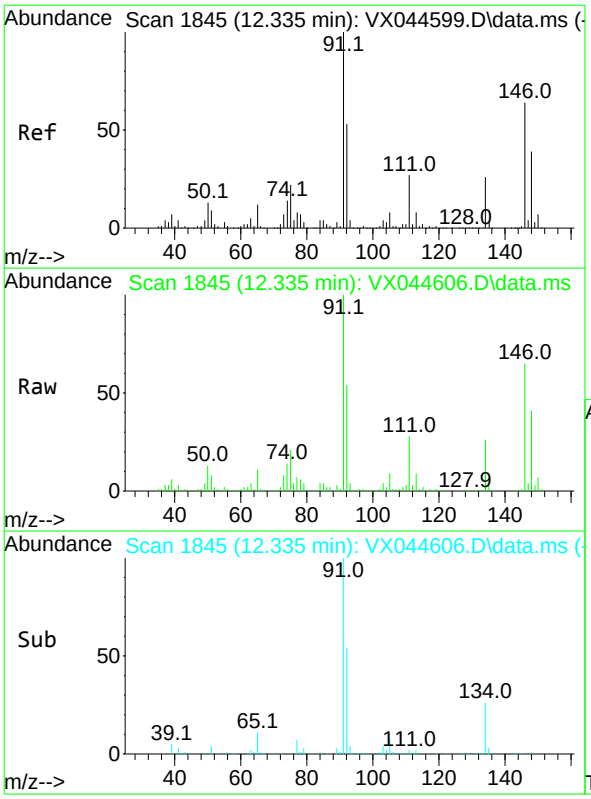


#90
Hexachloroethane
Concen: 16.588 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion:117 Resp: 27835

Ion	Ratio	Lower	Upper
117	100		
201	68.6	33.6	100.6

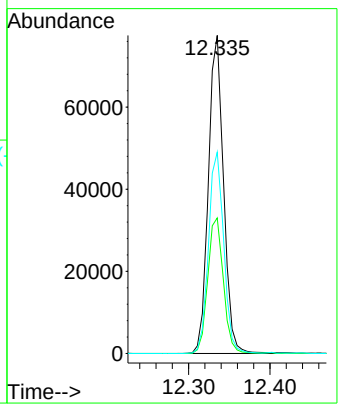




#91
1,2-Dichlorobenzene
Concen: 18.276 ug/l
RT: 12.335 min Scan# 18
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion:146 Resp: 100486

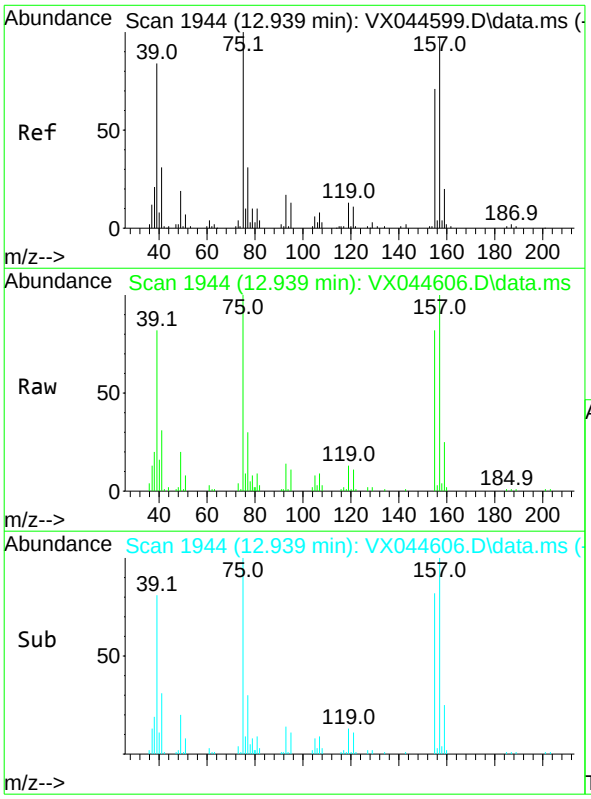
Ion	Ratio	Lower	Upper
146	100		
111	43.9	21.8	65.4
148	63.6	31.1	93.3



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Manual Integrations APPROVED

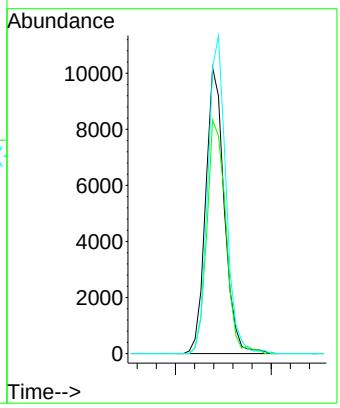
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

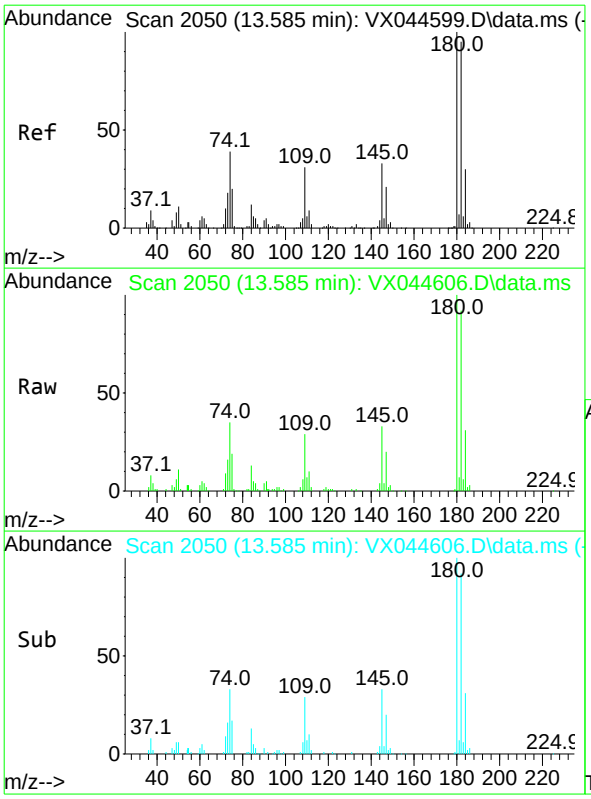


#92
1,2-Dibromo-3-Chloropropane
Concen: 18.244 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 75 Resp: 13803

Ion	Ratio	Lower	Upper
75	100		
155	82.8	37.4	112.1
157	107.6	48.0	144.2

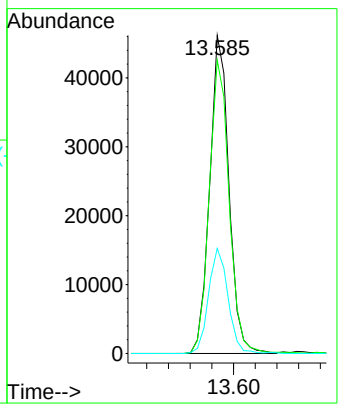




#93
1,2,4-Trichlorobenzene
Concen: 17.601 ug/l
RT: 13.585 min Scan# 20
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion:180 Resp: 56878

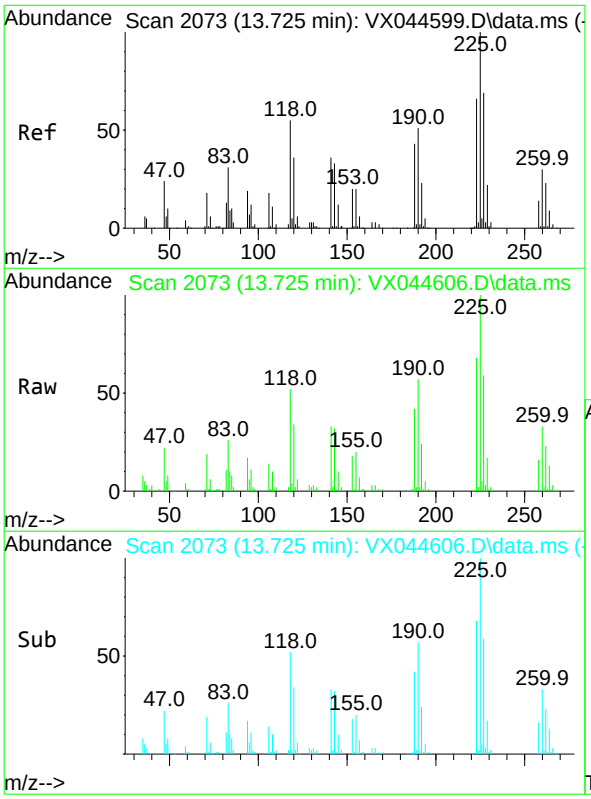
Ion	Ratio	Lower	Upper
180	100		
182	95.2	47.9	143.6
145	33.5	16.3	48.9



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Manual Integrations APPROVED

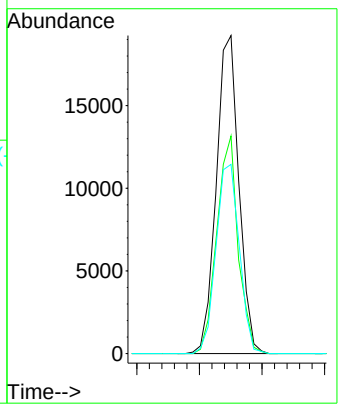
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

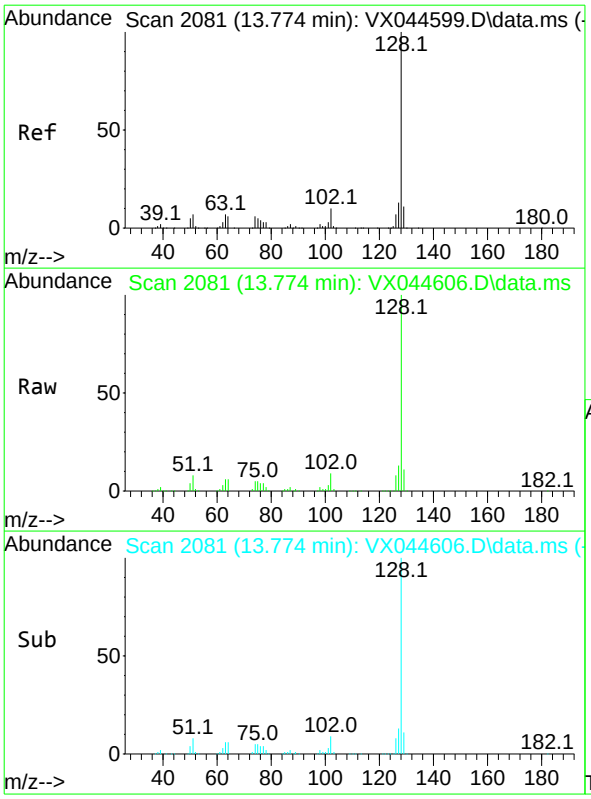


#94
Hexachlorobutadiene
Concen: 17.902 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion:225 Resp: 24088

Ion	Ratio	Lower	Upper
225	100		
223	64.5	31.6	94.8
227	61.3	31.9	95.9

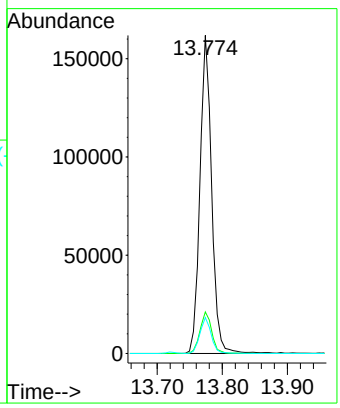




#95
Naphthalene
Concen: 19.340 ug/l
RT: 13.774 min Scan# 20
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion:128 Resp: 201646

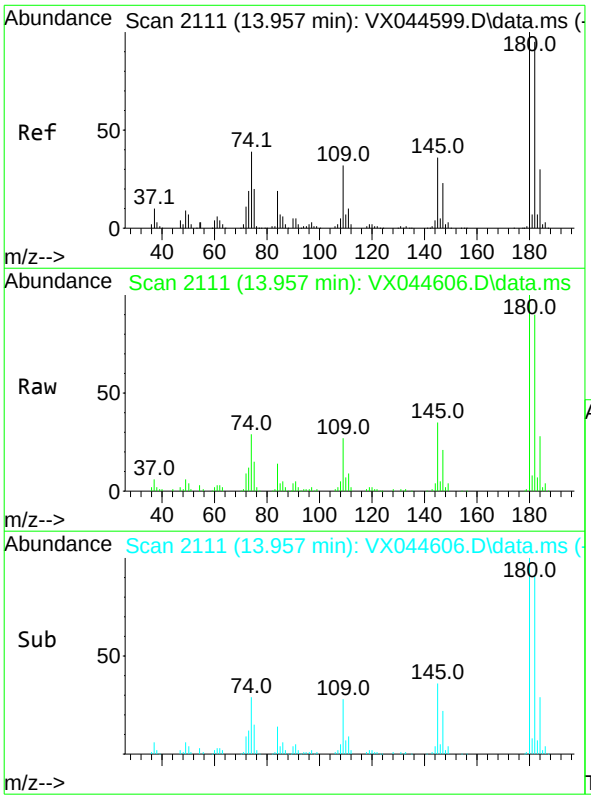
Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.5	15.7
129	11.0	8.6	13.0



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Manual Integrations APPROVED

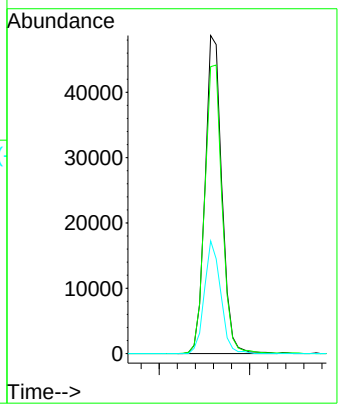
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025



#96
1,2,3-Trichlorobenzene
Concen: 18.973 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion:180 Resp: 62675

Ion	Ratio	Lower	Upper
180	100		
182	93.9	47.6	142.9
145	34.2	17.6	52.9



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:	CTO WE13	Date Received:	
Client Sample ID:	VX0107WBSD02	SDG No.:	Q1022
Lab Sample ID:	VX0107WBSD02	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044607.D	1		01/07/25 17:19	VX010725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	20.1		0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	19.4		0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	20.2		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	19.5		0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	20.3		0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	19.3		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.8		0.26	0.75	1.00	ug/L
67-64-1	Acetone	120		1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	18.9		0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	21.3		0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	19.7		0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	19.3		0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	20.4		0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	120		1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.0		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.6		0.25	0.75	1.00	ug/L
67-66-3	Chloroform	20.4		0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	21.1		0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	19.1		0.19	0.50	1.00	ug/L
71-43-2	Benzene	19.3		0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	21.3		0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	18.5		0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	20.5		0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	20.6		0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	120		0.75	2.50	5.00	ug/L
108-88-3	Toluene	20.3		0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	20.8		0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	20.4		0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	20.7		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	120		1.10	2.50	5.00	ug/L

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:	CTO WE13	Date Received:	
Client Sample ID:	VX0107WBSD02	SDG No.:	Q1022
Lab Sample ID:	VX0107WBSD02	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044607.D	1		01/07/25 17:19	VX010725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	20.0		0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	18.6		0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	19.9		0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	20.2		0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	40.8		0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	20.0		0.14	0.50	1.00	ug/L
100-42-5	Styrene	20.5		0.16	0.50	1.00	ug/L
75-25-2	Bromoform	20.2		0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	20.9		0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	21.4		0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	20.5		0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.3		0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	20.1		0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	49.7		81 - 118		99%	SPK: 50
1868-53-7	Dibromofluoromethane	46.3		80 - 119		93%	SPK: 50
2037-26-5	Toluene-d8	47.5		89 - 112		95%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.4		85 - 114		97%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	172000	5.544				
540-36-3	1,4-Difluorobenzene	301000	6.757				
3114-55-4	Chlorobenzene-d5	267000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	121000	12.018				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044607.D
Acq On : 07 Jan 2025 17:19
Operator : JC/MD
Sample : VX0107WBSD02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jan 08 07:56:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 03:57:12 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Manual Integrations APPROVED

Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	171730	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	300759	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	266797	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	120544	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	137729	49.741	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	99.480%		
35) Dibromofluoromethane	5.379	113	95542	46.327	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	92.660%		
50) Toluene-d8	8.647	98	334889	47.539	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	95.080%		
62) 4-Bromofluorobenzene	11.079	95	120282	48.375	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	96.740%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	48912	19.685	ug/l	98
3) Chloromethane	1.294	50	49735	20.086	ug/l	98
4) Vinyl Chloride	1.374	62	45148	19.436	ug/l	98
5) Bromomethane	1.599	94	24303	20.198	ug/l	98
6) Chloroethane	1.666	64	25953	19.530	ug/l	96
7) Trichlorofluoromethane	1.874	101	70365	20.344	ug/l	96
8) Diethyl Ether	2.130	74	28379	23.221	ug/l	89
9) 1,1,2-Trichlorotrifluo...	2.319	101	38354	19.341	ug/l	99
10) Methyl Iodide	2.447	142	52555	19.005	ug/l	98
11) Tert butyl alcohol	2.989	59	40868	119.862	ug/l	100
12) 1,1-Dichloroethene	2.313	96	36059	18.769	ug/l	95
13) Acrolein	2.233	56	46439	103.013	ug/l	99
14) Allyl chloride	2.660	41	64315	20.129	ug/l	98
15) Acrylonitrile	3.062	53	110987	113.025	ug/l	99
16) Acetone	2.380	43	101158	115.912	ug/l	99
17) Carbon Disulfide	2.508	76	74882	18.850	ug/l	98
18) Methyl Acetate	2.703	43	58370	22.660	ug/l	97
19) Methyl tert-butyl Ether	3.111	73	140165	21.289	ug/l	99
20) Methylene Chloride	2.788	84	43896	19.716	ug/l	95
21) trans-1,2-Dichloroethene	3.087	96	38148	19.347	ug/l	96
22) Diisopropyl ether	3.757	45	138717	21.120	ug/l	94
23) Vinyl Acetate	3.715	43	591636	111.391	ug/l	100
24) 1,1-Dichloroethane	3.605	63	77964	20.371	ug/l	99
25) 2-Butanone	4.556	43	155002	123.050	ug/l	96
26) 2,2-Dichloropropane	4.465	77	68439	20.683	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	47130	19.603	ug/l	96
28) Bromochloromethane	4.891	49	30719	17.243	ug/l	94
29) Tetrahydrofuran	5.007	42	100588	116.608	ug/l	98
30) Chloroform	5.086	83	84027	20.366	ug/l	97
31) Cyclohexane	5.458	56	62019	19.737	ug/l	98
32) 1,1,1-Trichloroethane	5.373	97	73236	21.092	ug/l	97
36) 1,1-Dichloropropene	5.690	75	51434	19.287	ug/l	99
37) Ethyl Acetate	4.715	43	62610	22.951	ug/l	99
38) Carbon Tetrachloride	5.666	117	56180	18.987	ug/l	100
39) Methylcyclohexane	7.373	83	64900	19.073	ug/l	99
40) Benzene	6.031	78	162053	19.300	ug/l	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044607.D
Acq On : 07 Jan 2025 17:19
Operator : JC/MD
Sample : VX0107WBSD02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jan 08 07:56:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 03:57:12 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Manual Integrations APPROVED

Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	4.922	41	32484	22.184 ug/l		98
42) 1,2-Dichloroethane	6.080	62	70018	21.323 ug/l		99
43) Isopropyl Acetate	6.336	43	101940	22.650 ug/l		100
44) Trichloroethene	7.123	130	39732	18.511 ug/l		97
45) 1,2-Dichloropropane	7.427	63	41958	20.496 ug/l		96
46) Dibromomethane	7.580	93	32347	20.317 ug/l		97
47) Bromodichloromethane	7.818	83	59672	20.596 ug/l		99
48) Methyl methacrylate	7.690	41	50339	23.451 ug/l		99
49) 1,4-Dioxane	7.665	88	14965m	474.412 ug/l		
51) 4-Methyl-2-Pentanone	8.574	43	319022	121.261 ug/l		98
52) Toluene	8.714	92	102803	20.292 ug/l		96
53) t-1,3-Dichloropropene	8.976	75	57617	20.805 ug/l		95
54) cis-1,3-Dichloropropene	8.366	75	63548	20.417 ug/l		99
55) 1,1,2-Trichloroethane	9.147	97	41049	20.668 ug/l		97
56) Ethyl methacrylate	9.116	69	64529	22.340 ug/l		98
57) 1,3-Dichloropropane	9.305	76	72788	21.824 ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	140437	98.074 ug/l		100
59) 2-Hexanone	9.427	43	231665	124.510 ug/l		100
60) Dibromochloromethane	9.519	129	39629	20.011 ug/l		100
61) 1,2-Dibromoethane	9.610	107	42130	21.003 ug/l		100
64) Tetrachloroethene	9.269	164	35162	18.640 ug/l		97
65) Chlorobenzene	10.079	112	112810	19.923 ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.159	131	37980	20.195 ug/l		99
67) Ethyl Benzene	10.189	91	196678	20.227 ug/l		98
68) m/p-Xylenes	10.299	106	145628	40.757 ug/l		100
69) o-Xylene	10.640	106	72061	19.981 ug/l		98
70) Styrene	10.652	104	118313	20.510 ug/l		100
71) Bromoform	10.799	173	24761	20.205 ug/l	#	97
73) Isopropylbenzene	10.963	105	186576	20.891 ug/l		98
74) N-amyl acetate	10.841	43	81987	22.625 ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.207	83	61611	21.403 ug/l		100
76) 1,2,3-Trichloropropane	11.238	75	51868m	21.465 ug/l		
77) Bromobenzene	11.195	156	45188	20.829 ug/l		95
78) n-propylbenzene	11.299	91	208661	20.743 ug/l		100
79) 2-Chlorotoluene	11.360	91	132275	20.292 ug/l		100
80) 1,3,5-Trimethylbenzene	11.451	105	155524	21.003 ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	15709	19.789 ug/l		92
82) 4-Chlorotoluene	11.451	91	150886	20.576 ug/l		100
83) tert-Butylbenzene	11.713	119	152010	20.617 ug/l		97
84) 1,2,4-Trimethylbenzene	11.750	105	156006	20.973 ug/l		99
85) sec-Butylbenzene	11.890	105	185130	20.617 ug/l		99
86) p-Isopropyltoluene	12.006	119	154223	20.469 ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	80463	20.502 ug/l		99
88) 1,4-Dichlorobenzene	12.036	146	78747	19.258 ug/l		97
89) n-Butylbenzene	12.329	91	127763	20.082 ug/l		99
90) Hexachloroethane	12.536	117	22393	18.501 ug/l		100
91) 1,2-Dichlorobenzene	12.335	146	79533	20.054 ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	12508	22.920 ug/l		93
93) 1,2,4-Trichlorobenzene	13.585	180	49080	21.056 ug/l		98
94) Hexachlorobutadiene	13.725	225	21566	22.220 ug/l		94
95) Naphthalene	13.774	128	189125	25.147 ug/l		99
96) 1,2,3-Trichlorobenzene	13.957	180	50797	21.319 ug/l		96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044607.D
Acq On : 07 Jan 2025 17:19
Operator : JC/MD
Sample : VX0107WBSD02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jan 08 07:56:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 03:57:12 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Manual Integrations APPROVED

Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

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

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

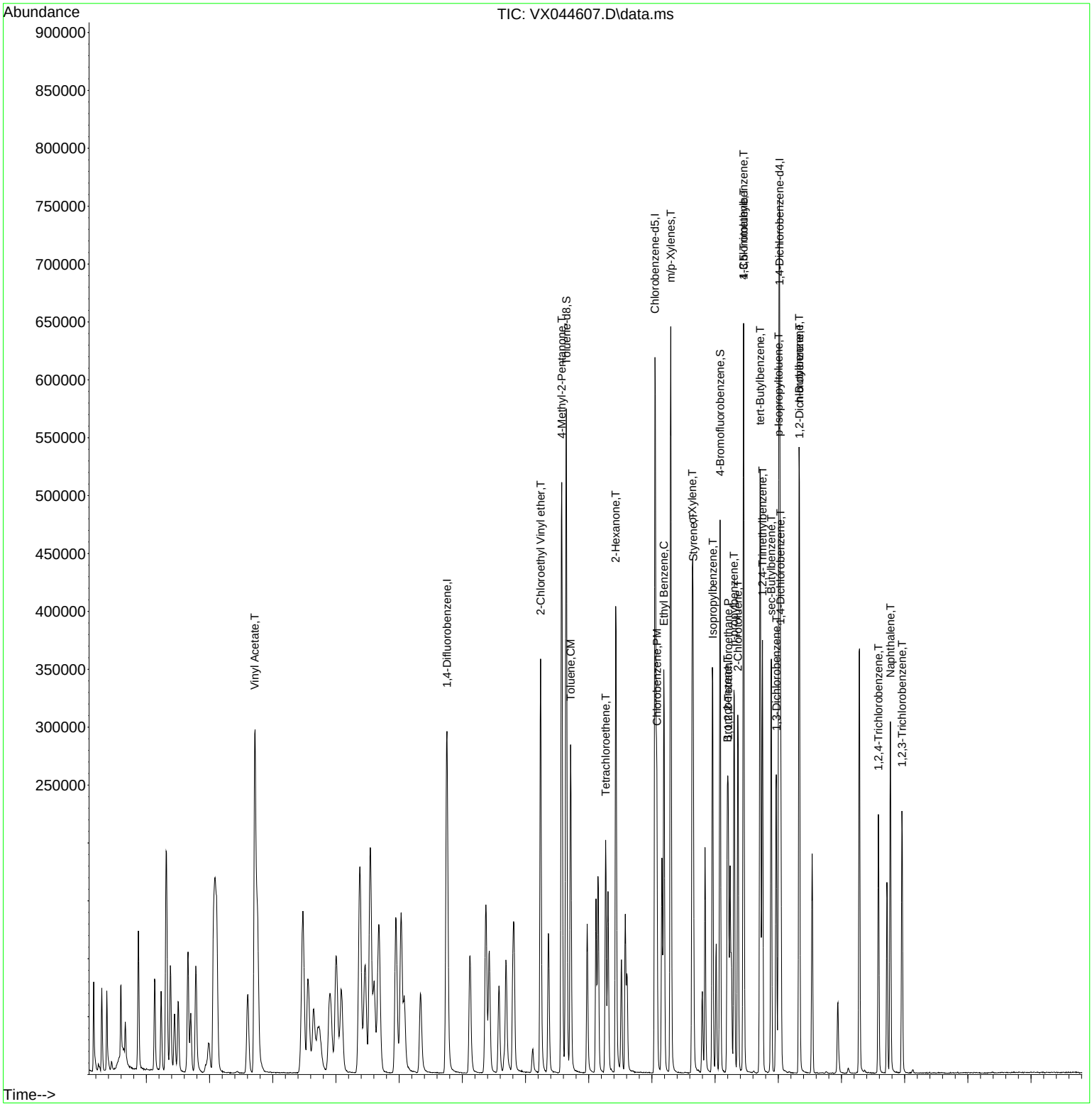
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044607.D
Acq On : 07 Jan 2025 17:19
Operator : JC/MD
Sample : VX0107WBSD02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 14 Sample Multiplier: 1

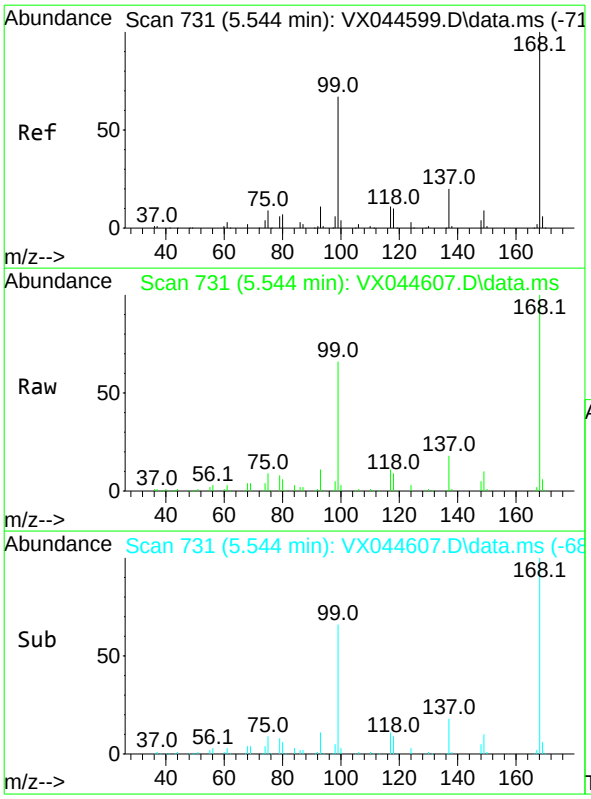
Quant Time: Jan 08 07:56:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 03:57:12 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Manual Integrations APPROVED

Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

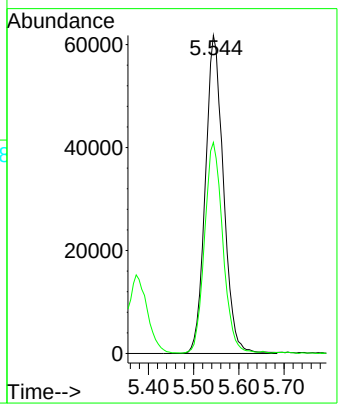




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 73
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion:168 Resp: 171730

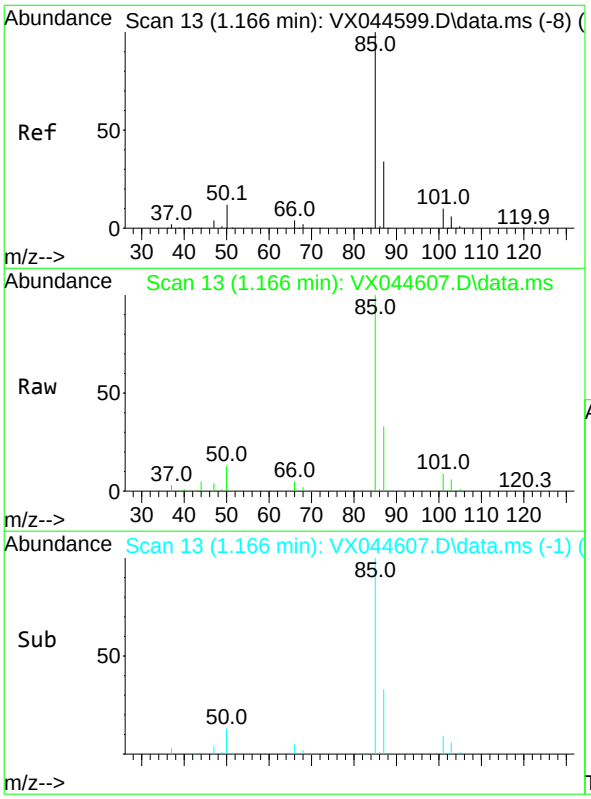
Ion	Ratio	Lower	Upper
168	100		
99	66.2	53.5	80.3



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Manual Integrations
APPROVED

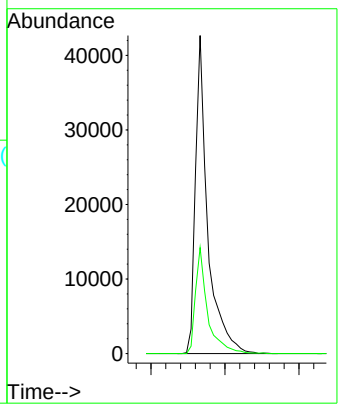
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

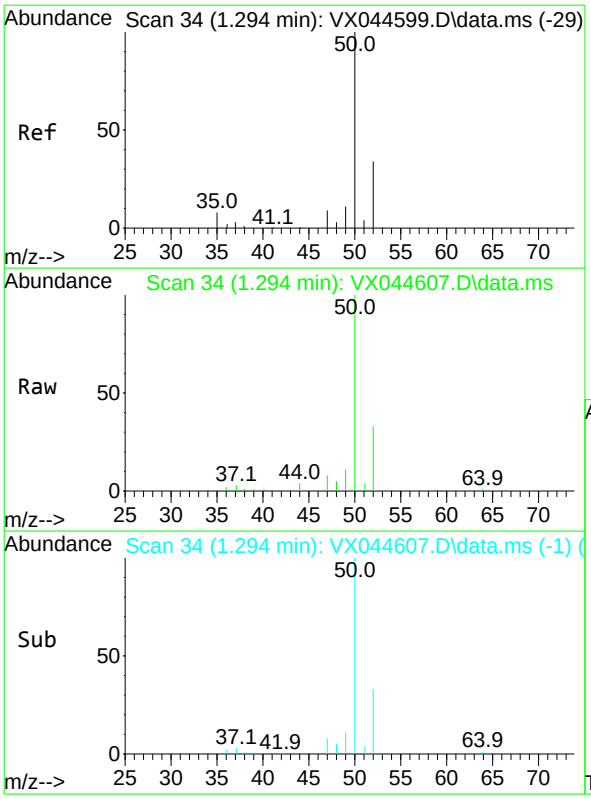


#2
Dichlorodifluoromethane
Concen: 19.685 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 85 Resp: 48912

Ion	Ratio	Lower	Upper
85	100		
87	33.3	17.2	51.5

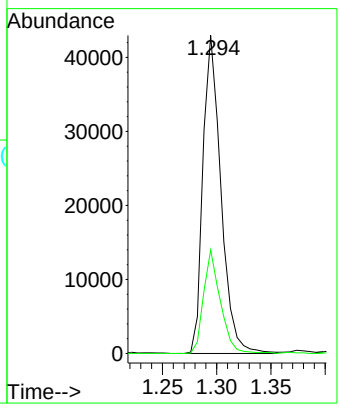




#3
Chloromethane
Concen: 20.086 ug/l
RT: 1.294 min Scan# 34
Delta R.T. 0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 50 Resp: 49735

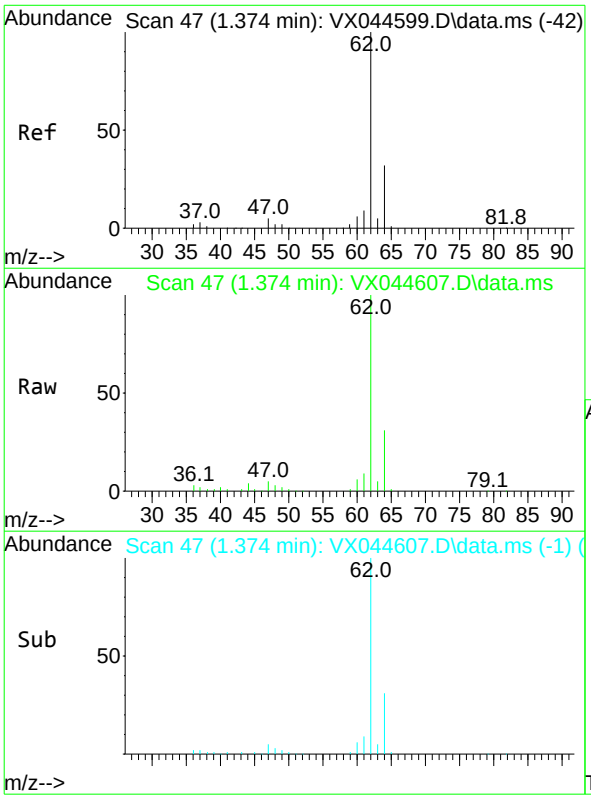
Ion	Ratio	Lower	Upper
50	100		
52	32.6	27.0	40.4



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Manual Integrations
APPROVED

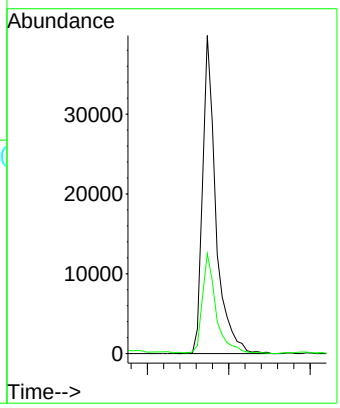
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

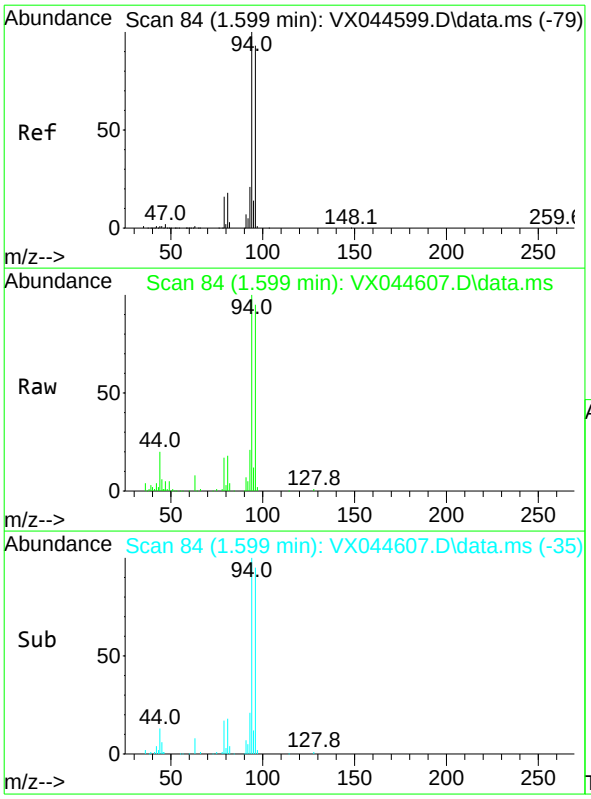


#4
Vinyl Chloride
Concen: 19.436 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 62 Resp: 45148

Ion	Ratio	Lower	Upper
62	100		
64	31.4	26.0	39.0

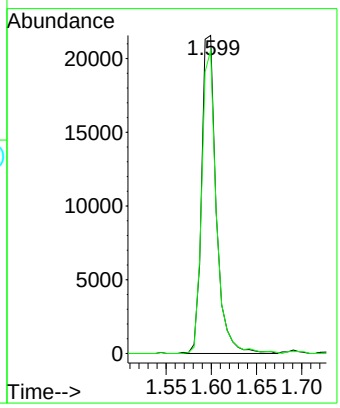




#5
Bromomethane
Concen: 20.198 ug/l
RT: 1.599 min Scan# 84
Delta R.T. 0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 94 Resp: 24303

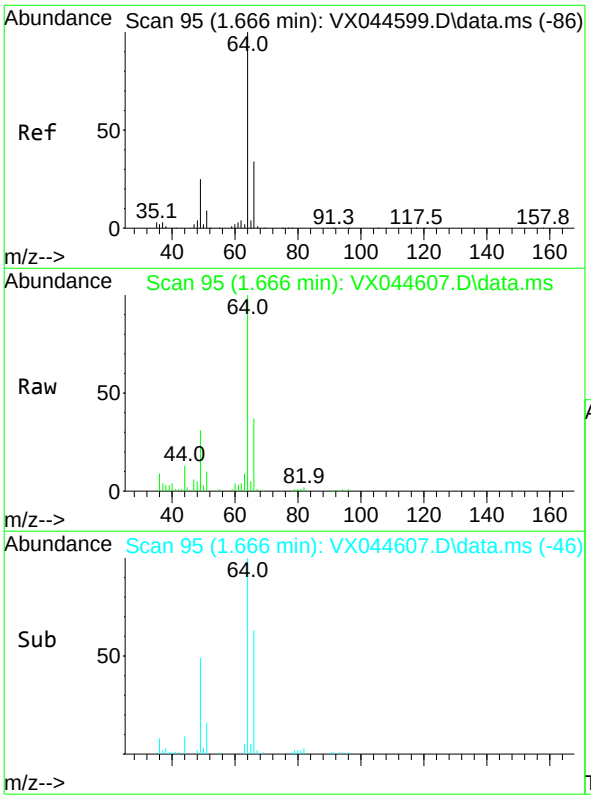
Ion	Ratio	Lower	Upper
94	100		
96	95.3	74.6	112.0



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Manual Integrations APPROVED

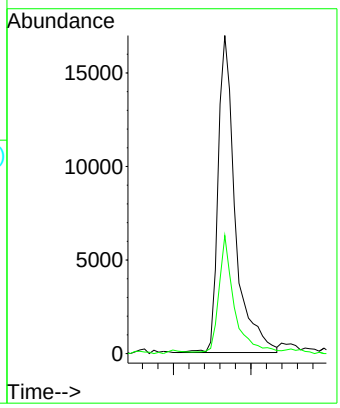
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

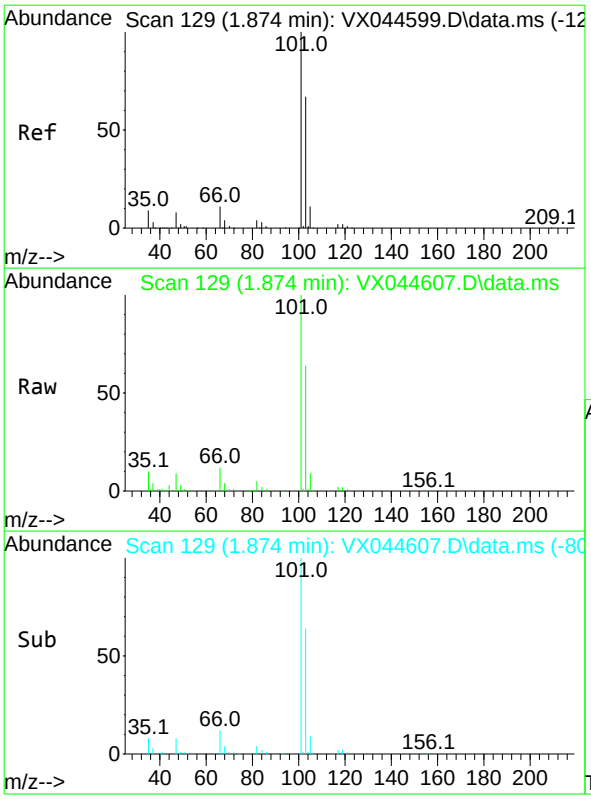


#6
Chloroethane
Concen: 19.530 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 64 Resp: 25953

Ion	Ratio	Lower	Upper
64	100		
66	36.4	27.3	40.9

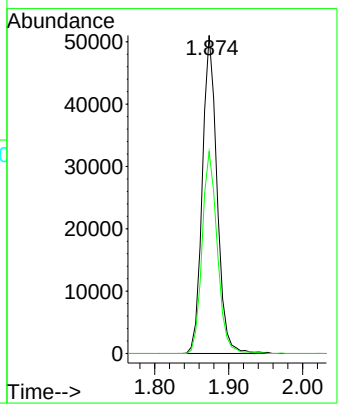




#7
Trichlorofluoromethane
Concen: 20.344 ug/l
RT: 1.874 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion:101 Resp: 70365

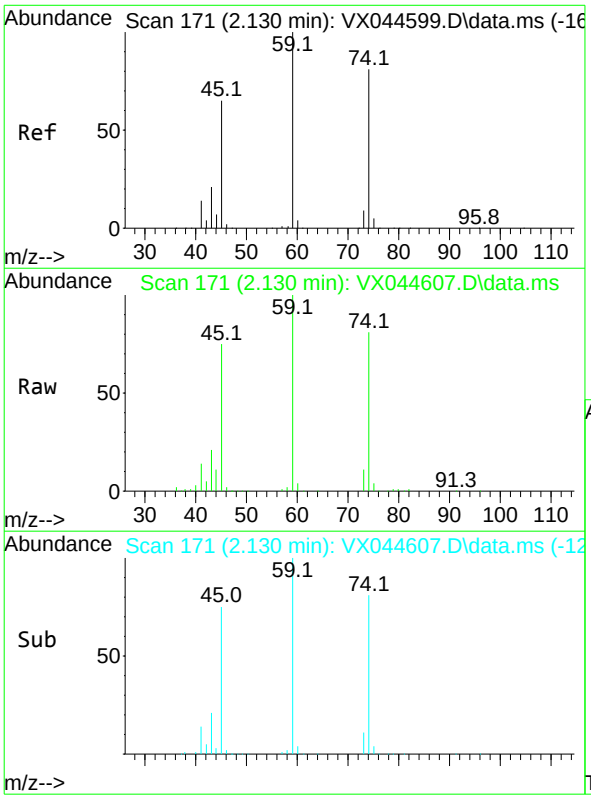
Ion	Ratio	Lower	Upper
101	100		
103	63.5	53.3	79.9



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Manual Integrations APPROVED

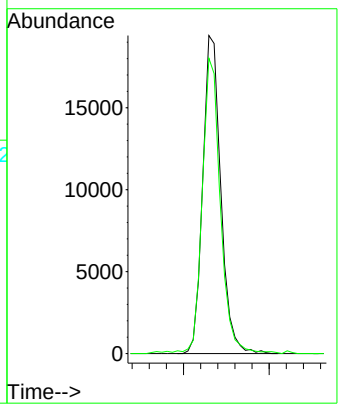
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

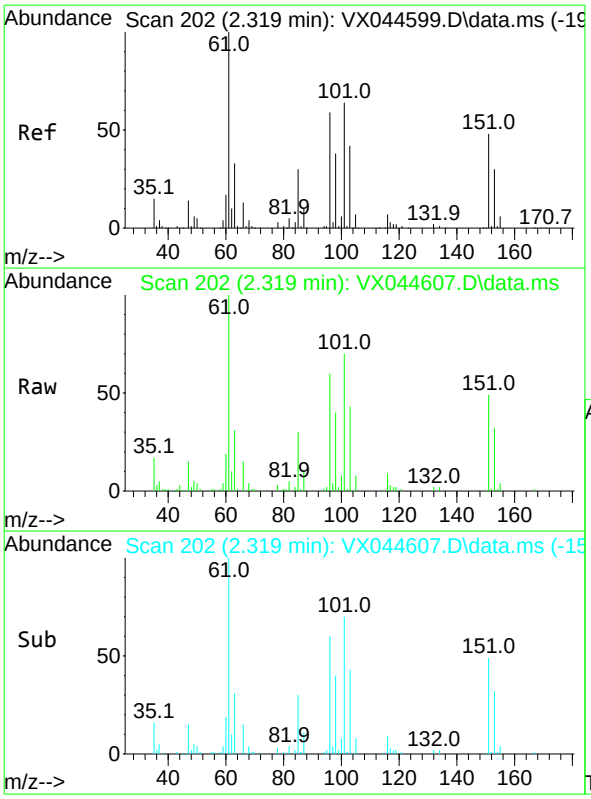


#8
Diethyl Ether
Concen: 23.221 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 74 Resp: 28379

Ion	Ratio	Lower	Upper
74	100		
45	93.7	41.7	125.1

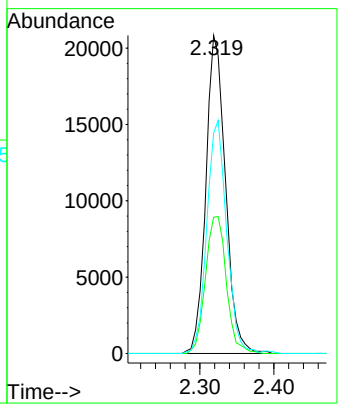




#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.341 ug/l
RT: 2.319 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion:101 Resp: 38354

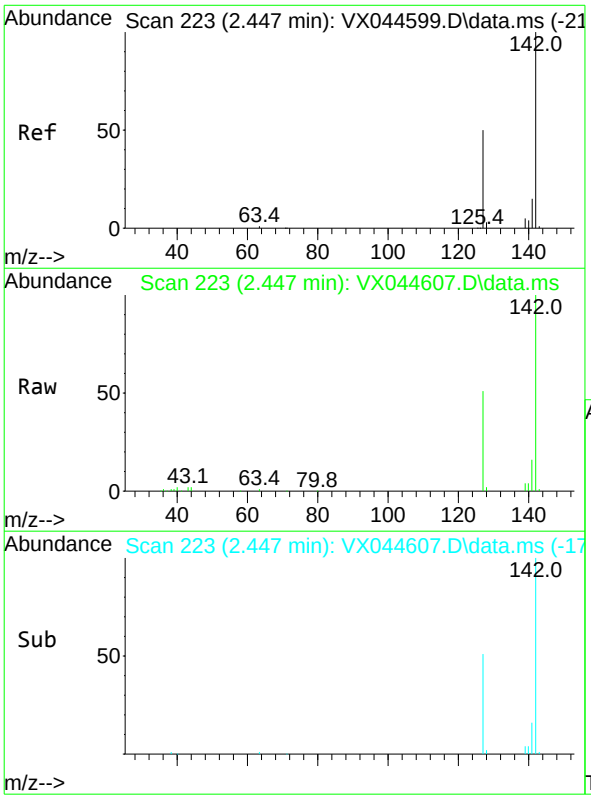
Ion	Ratio	Lower	Upper
101	100		
85	45.7	36.5	54.7
151	74.2	58.6	87.8



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Manual Integrations
APPROVED

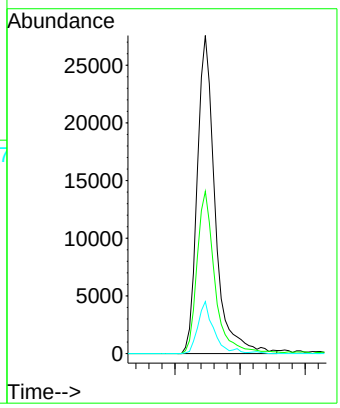
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

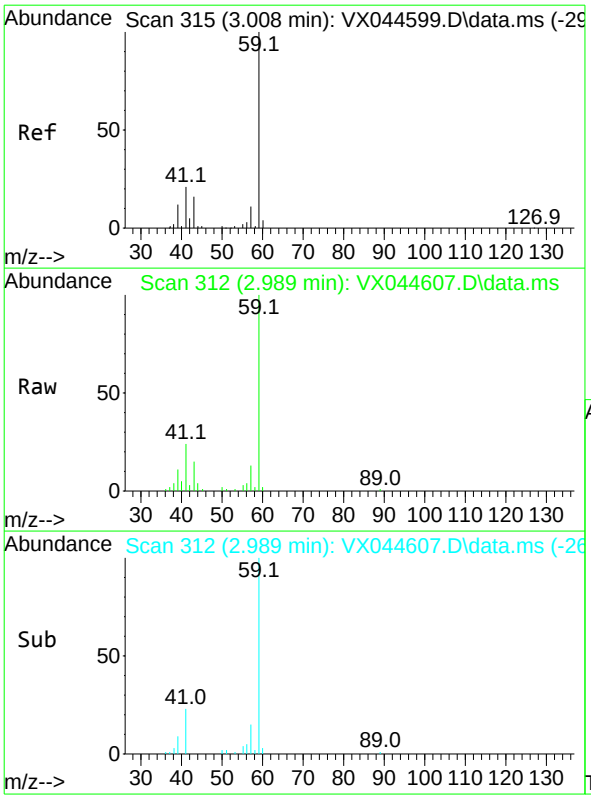


#10
Methyl Iodide
Concen: 19.005 ug/l
RT: 2.447 min Scan# 223
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion:142 Resp: 52555

Ion	Ratio	Lower	Upper
142	100		
127	51.1	41.9	62.9
141	14.5	11.8	17.6

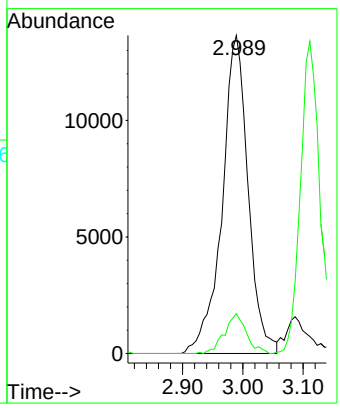




#11
Tert butyl alcohol
Concen: 119.862 ug/l
RT: 2.989 min Scan# 31
Delta R.T. -0.018 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 59 Resp: 40868

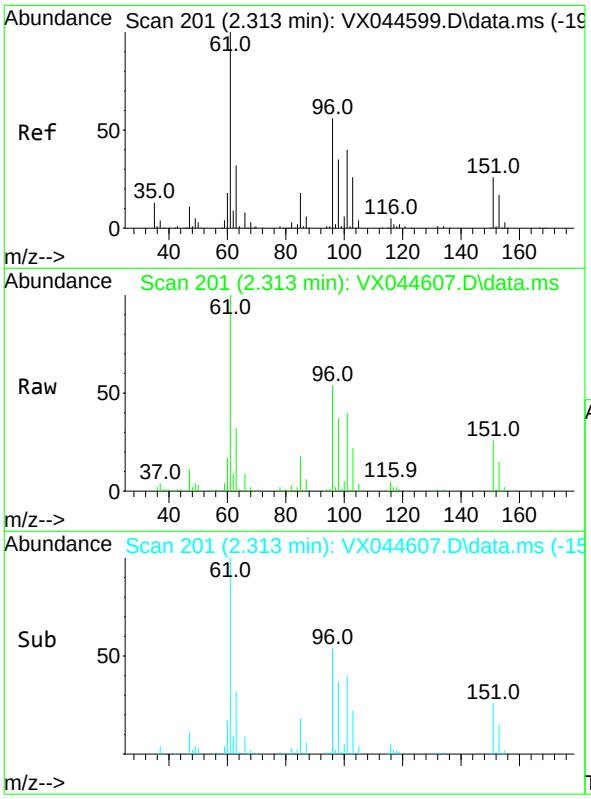
Ion	Ratio	Lower	Upper
59	100		
57	10.6	8.6	12.8



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Manual Integrations APPROVED

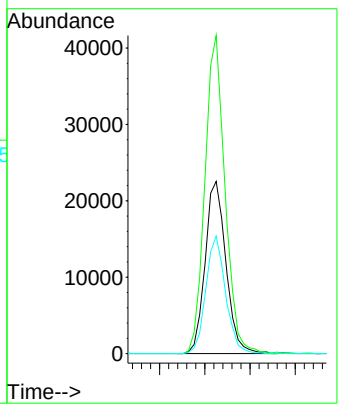
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

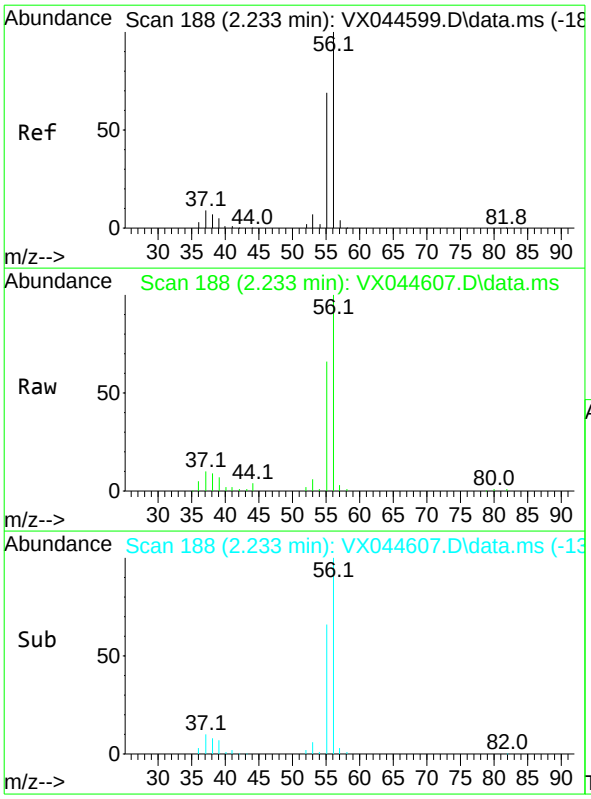


#12
1,1-Dichloroethene
Concen: 18.769 ug/l
RT: 2.313 min Scan# 201
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 96 Resp: 36059

Ion	Ratio	Lower	Upper
96	100		
61	184.7	143.3	214.9
98	68.2	50.6	76.0

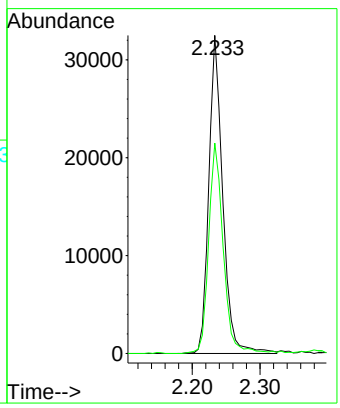




#13
Acrolein
Concen: 103.013 ug/l
RT: 2.233 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 56 Resp: 46439

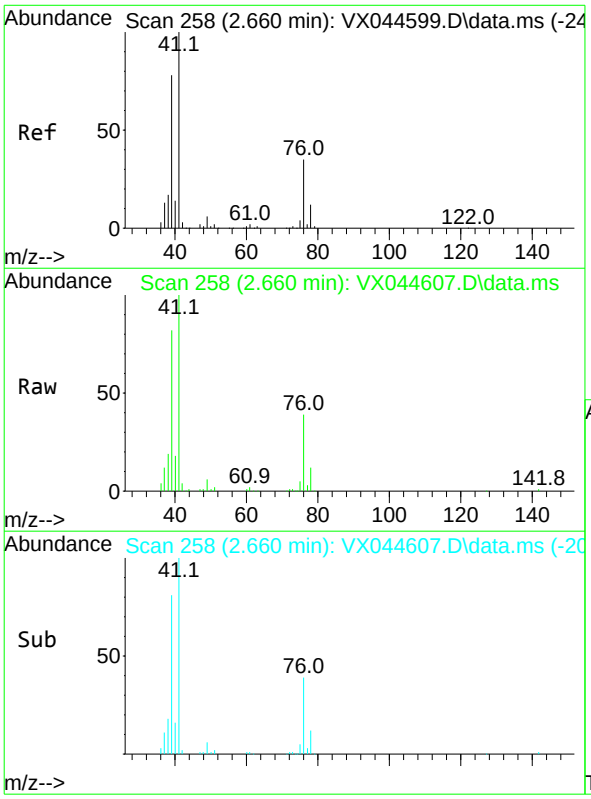
Ion	Ratio	Lower	Upper
56	100		
55	69.0	55.8	83.8



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Manual Integrations
APPROVED

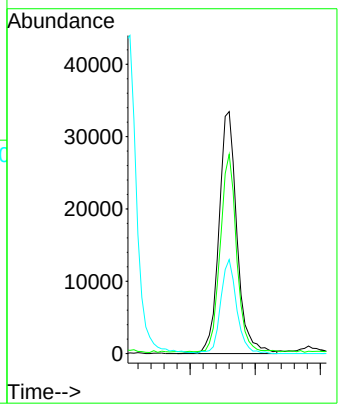
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

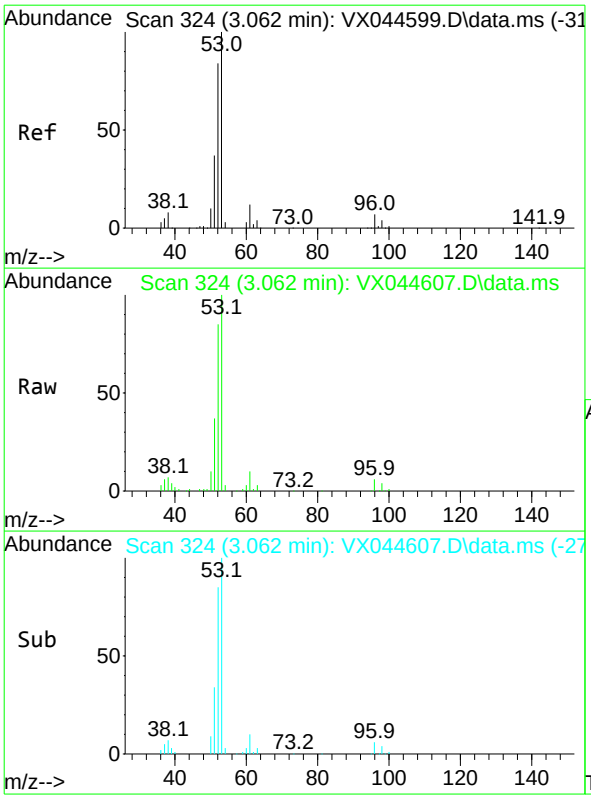


#14
Allyl chloride
Concen: 20.129 ug/l
RT: 2.660 min Scan# 258
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 41 Resp: 64315

Ion	Ratio	Lower	Upper
41	100		
39	73.9	60.2	90.2
76	34.5	25.9	38.9





#15
Acrylonitrile
Concen: 113.025 ug/l
RT: 3.062 min Scan# 32
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

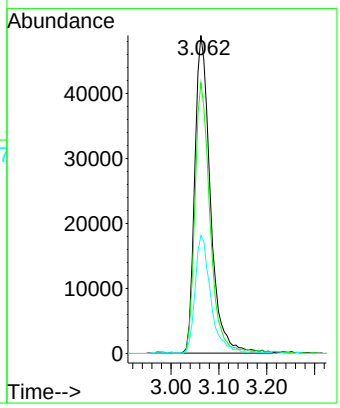
Tgt Ion: 53 Resp: 110987

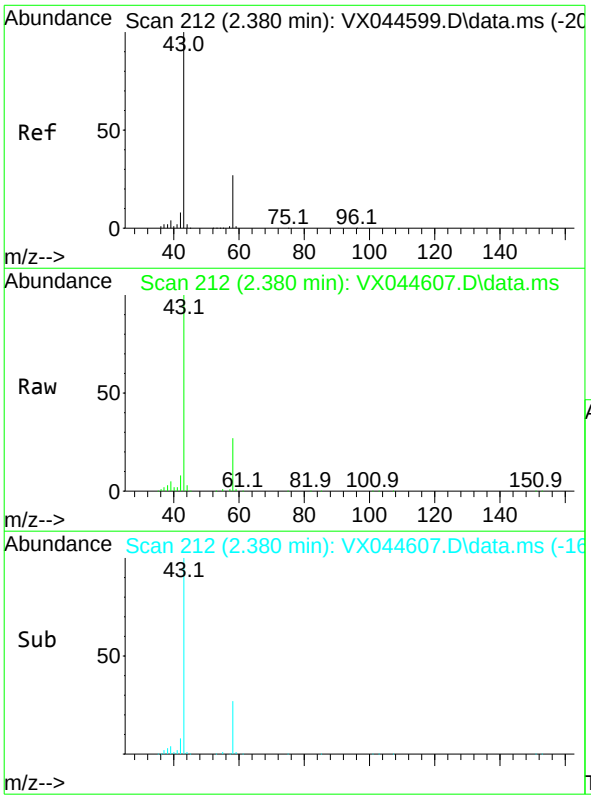
Ion	Ratio	Lower	Upper
53	100		
52	82.3	67.0	100.6
51	37.0	29.4	44.0

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

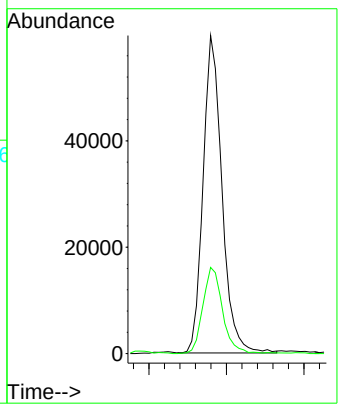


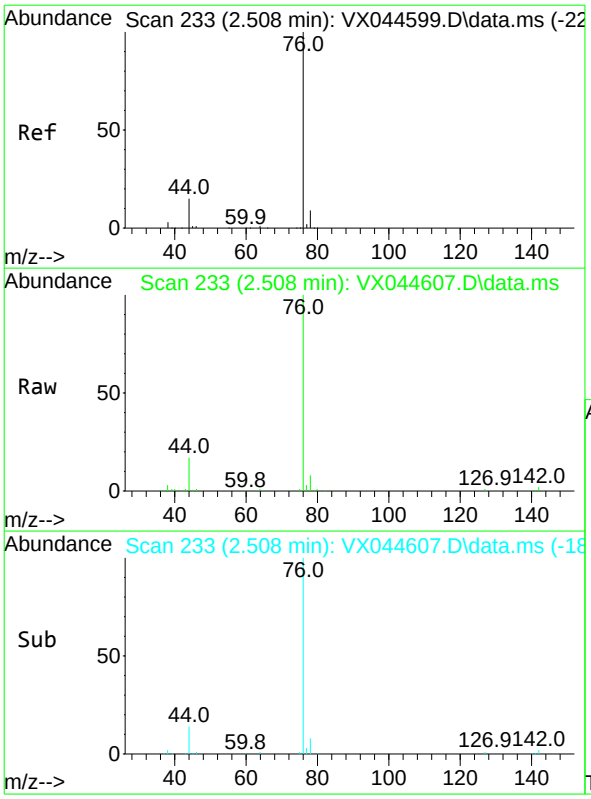


#16
Acetone
Concen: 115.912 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 43 Resp: 101158

Ion	Ratio	Lower	Upper
43	100		
58	27.2	22.0	33.0

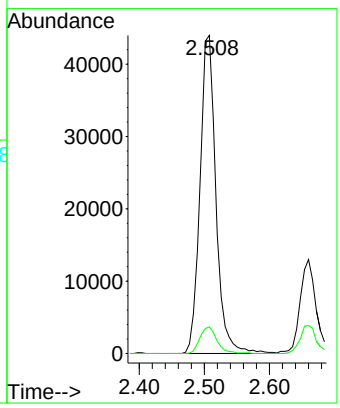




#17
Carbon Disulfide
Concen: 18.850 ug/l
RT: 2.508 min Scan# 23
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 76 Resp: 74882

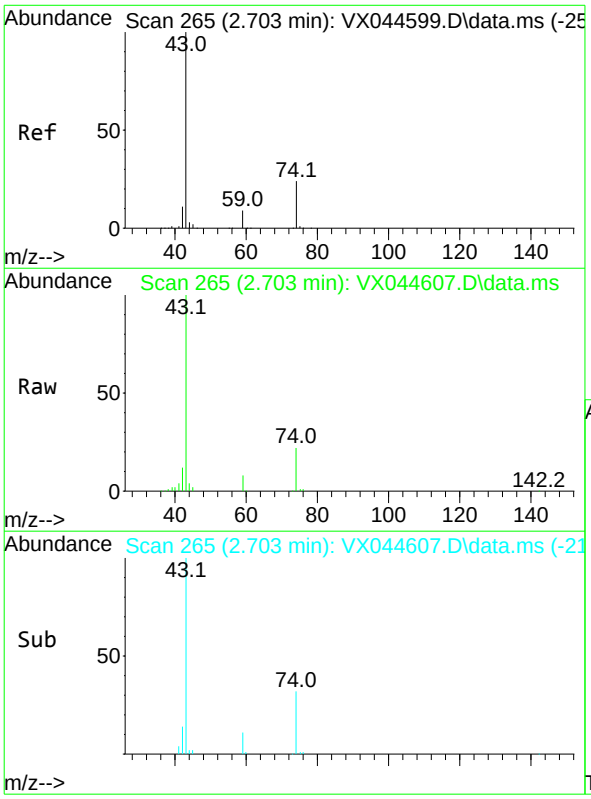
Ion	Ratio	Lower	Upper
76	100		
78	8.3	7.1	10.7



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Manual Integrations APPROVED

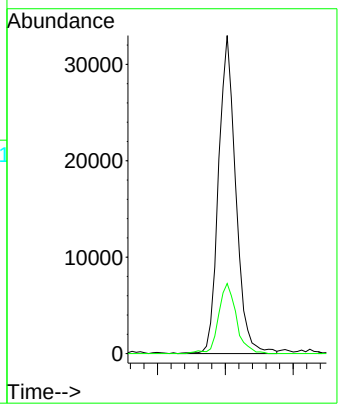
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

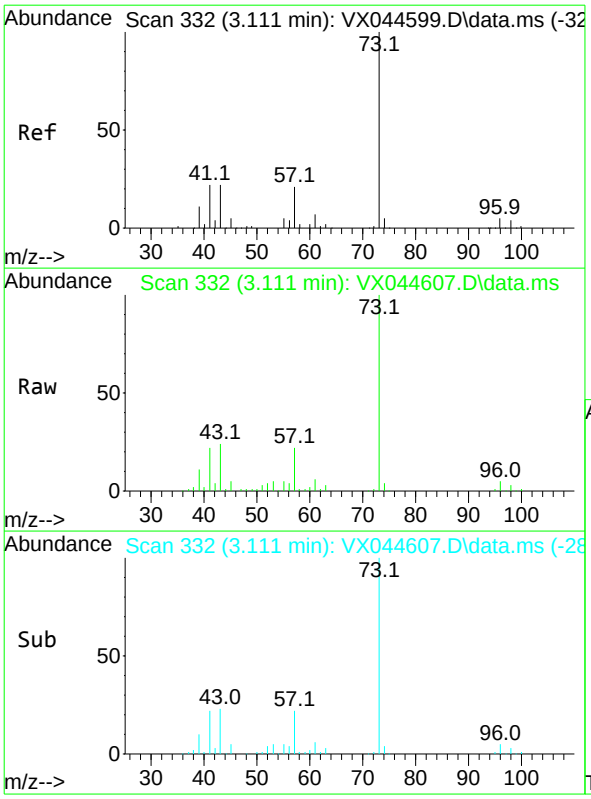


#18
Methyl Acetate
Concen: 22.660 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 43 Resp: 58370

Ion	Ratio	Lower	Upper
43	100		
74	22.7	19.3	28.9

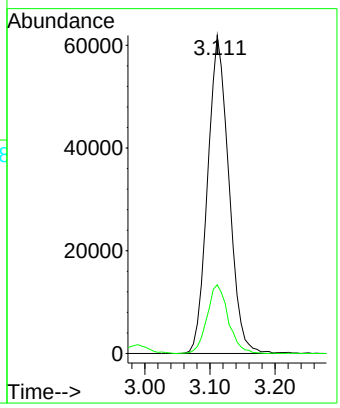




#19
Methyl tert-butyl Ether
Concen: 21.289 ug/l
RT: 3.111 min Scan# 33
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 73 Resp: 140165

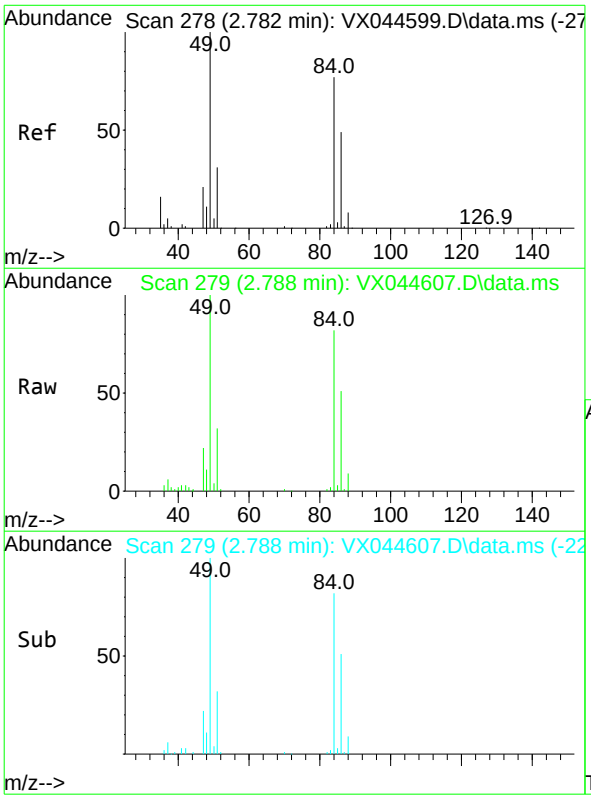
Ion	Ratio	Lower	Upper
73	100		
57	21.6	17.0	25.4



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Manual Integrations
APPROVED

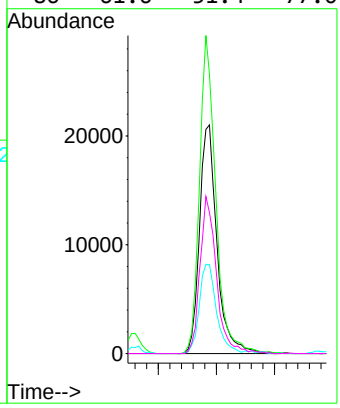
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

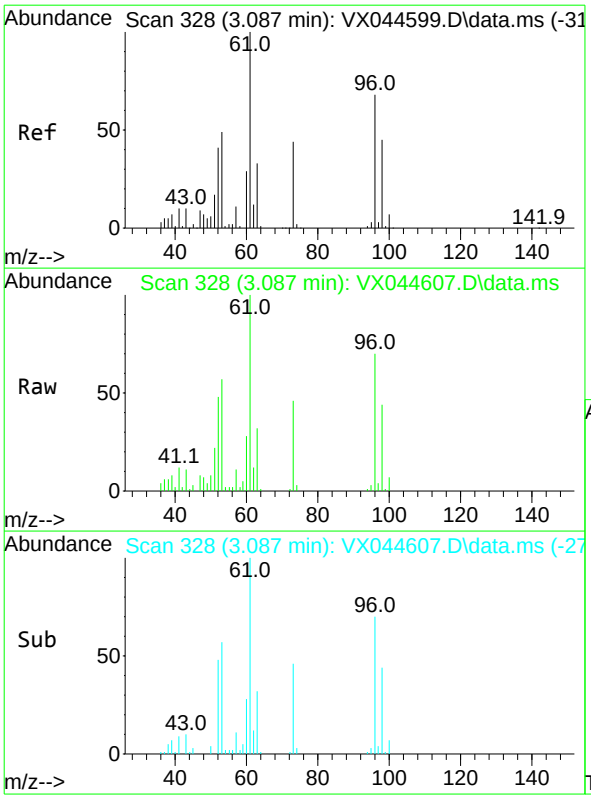


#20
Methylene Chloride
Concen: 19.716 ug/l
RT: 2.788 min Scan# 279
Delta R.T. 0.006 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 84 Resp: 43896

Ion	Ratio	Lower	Upper
84	100		
49	122.0	104.4	156.6
51	38.9	32.0	48.0
86	61.6	51.4	77.0

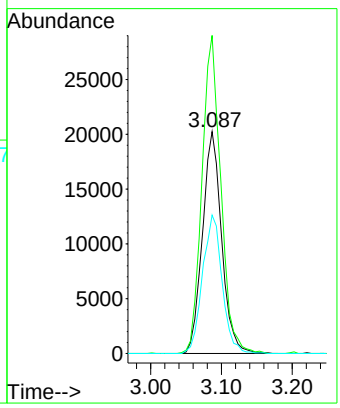




#21
trans-1,2-Dichloroethene
Concen: 19.347 ug/l
RT: 3.087 min Scan# 32
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 96 Resp: 38148

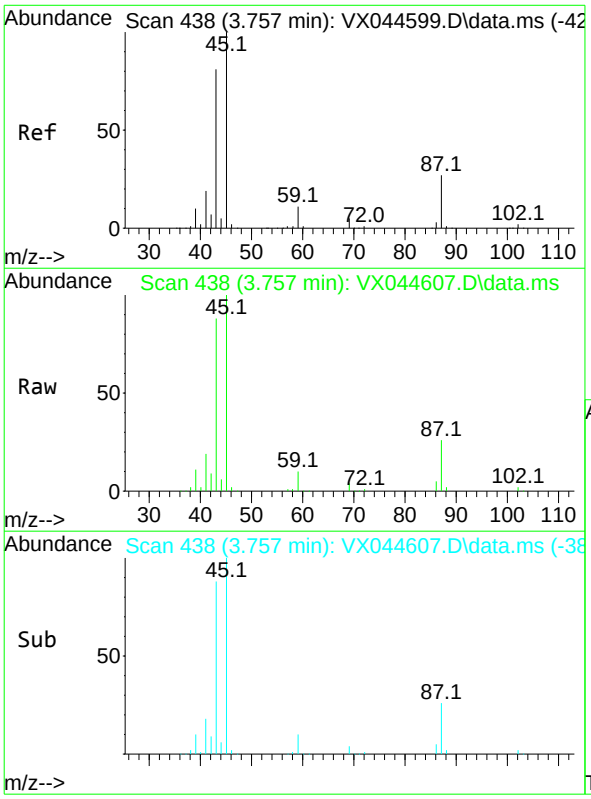
Ion	Ratio	Lower	Upper
96	100		
61	143.3	118.5	177.7
98	62.4	53.4	80.0



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Manual Integrations APPROVED

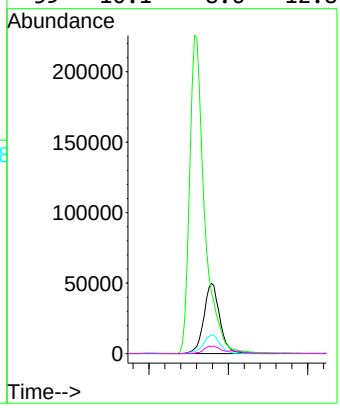
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

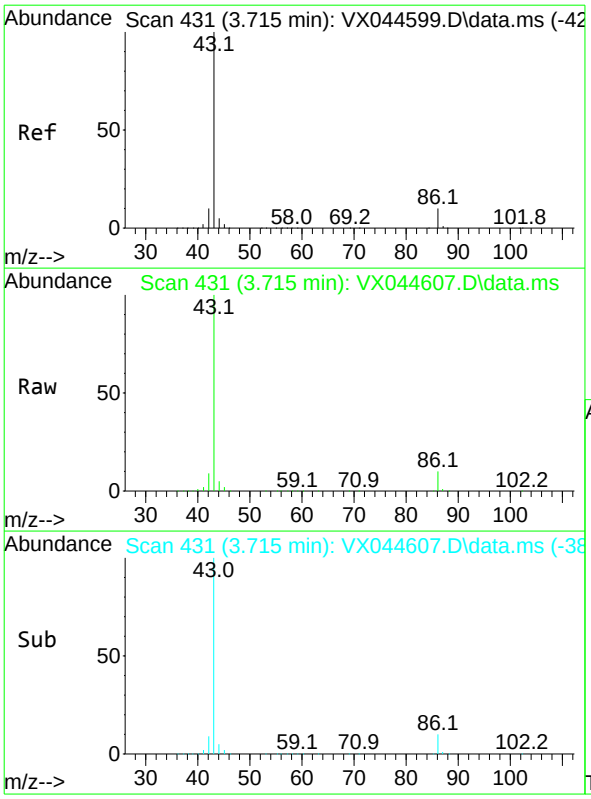


#22
Diisopropyl ether
Concen: 21.120 ug/l
RT: 3.757 min Scan# 438
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 45 Resp: 138717

Ion	Ratio	Lower	Upper
45	100		
43	88.0	64.6	97.0
87	26.4	21.8	32.8
59	10.1	8.6	12.8

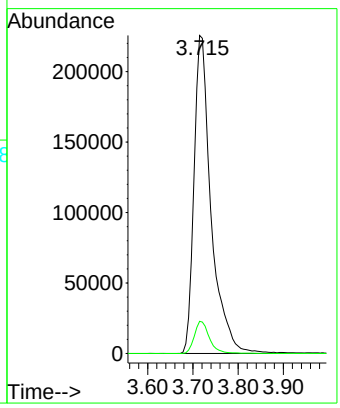




#23
Vinyl Acetate
Concen: 111.391 ug/l
RT: 3.715 min Scan# 43
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 43 Resp: 591636

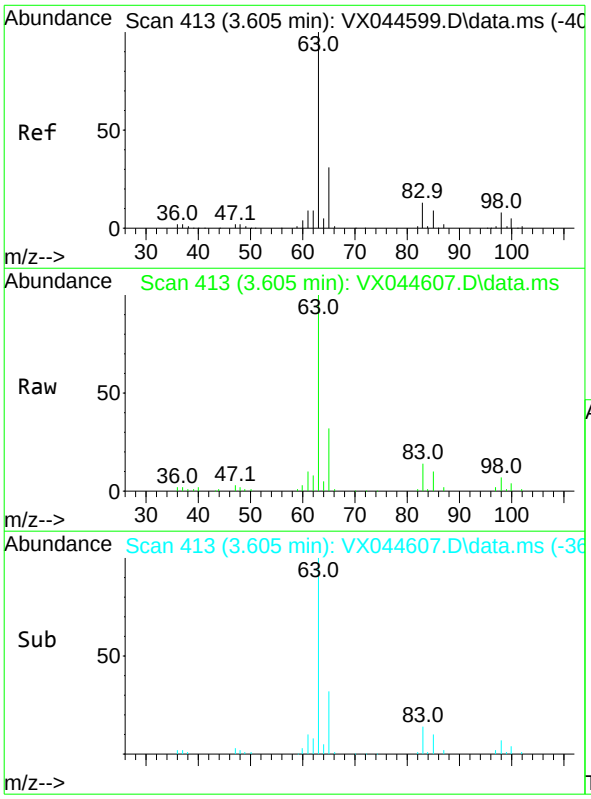
Ion	Ratio	Lower	Upper
43	100		
86	10.1	8.1	12.1



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Manual Integrations APPROVED

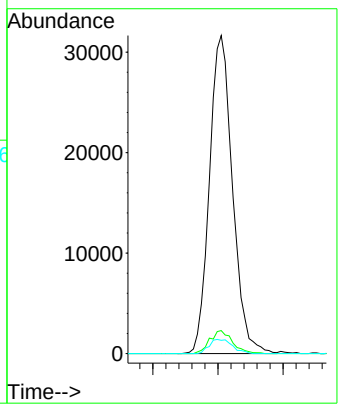
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

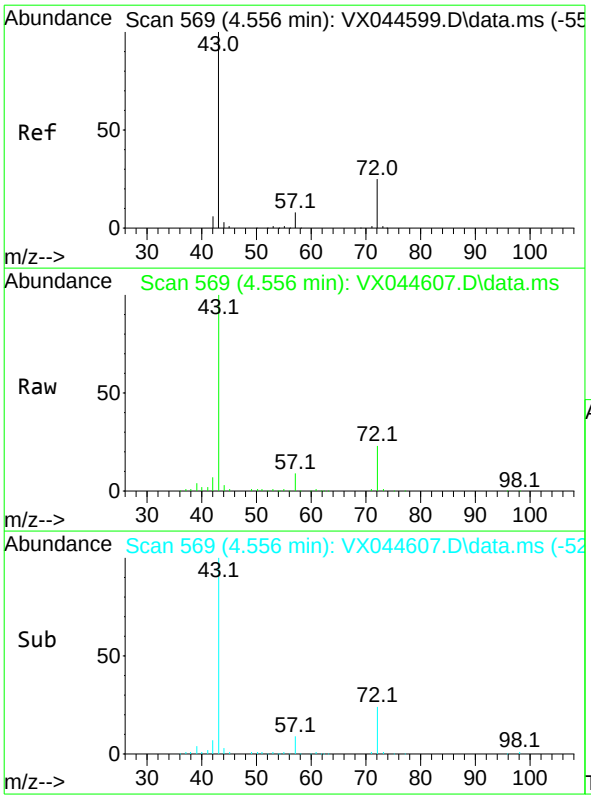


#24
1,1-Dichloroethane
Concen: 20.371 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 63 Resp: 77964

Ion	Ratio	Lower	Upper
63	100		
98	7.2	3.8	11.4
100	4.2	2.4	7.2

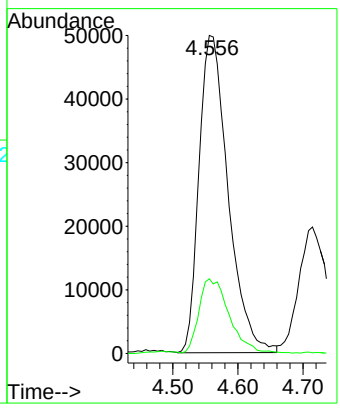




#25
2-Butanone
Concen: 123.050 ug/l
RT: 4.556 min Scan# 56
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 43 Resp: 155002

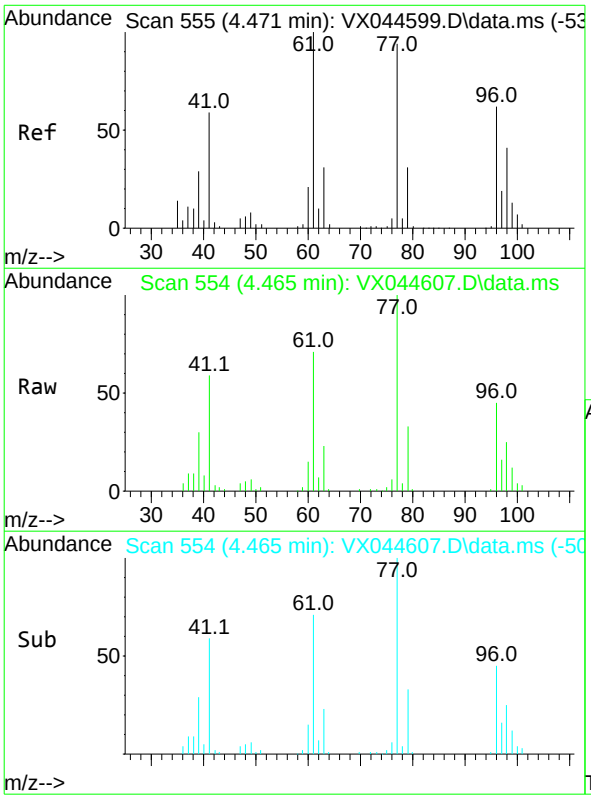
Ion	Ratio	Lower	Upper
43	100		
72	23.2	20.2	30.2



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Manual Integrations
APPROVED

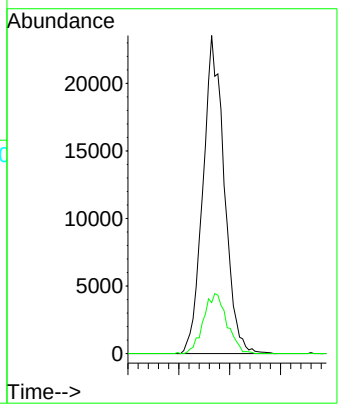
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

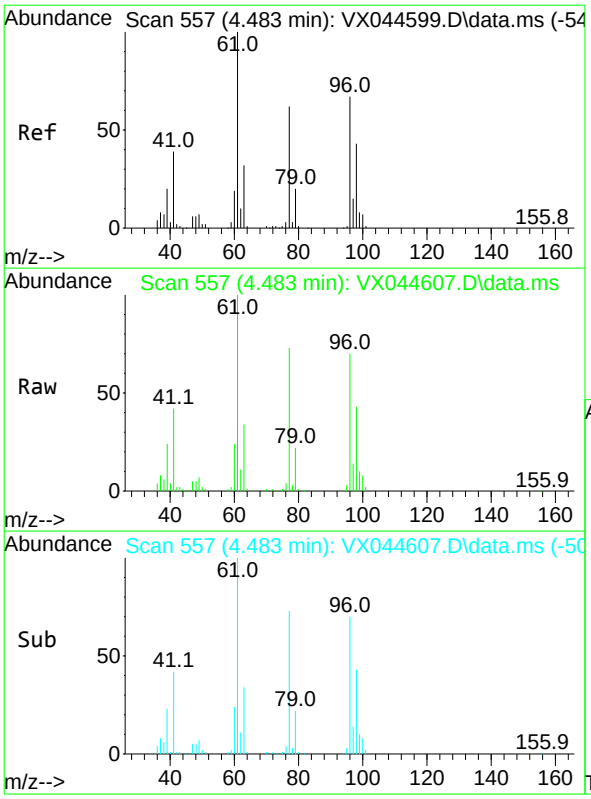


#26
2,2-Dichloropropane
Concen: 20.683 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.006 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 77 Resp: 68439

Ion	Ratio	Lower	Upper
77	100		
97	20.8	10.7	32.1

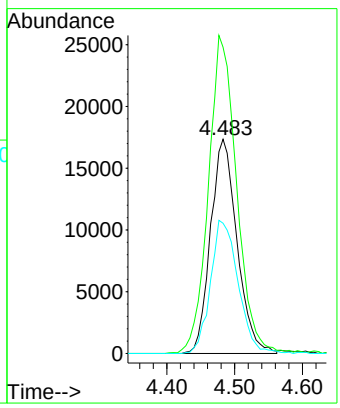




#27
cis-1,2-Dichloroethene
Concen: 19.603 ug/l
RT: 4.483 min Scan# 55
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 96 Resp: 47130

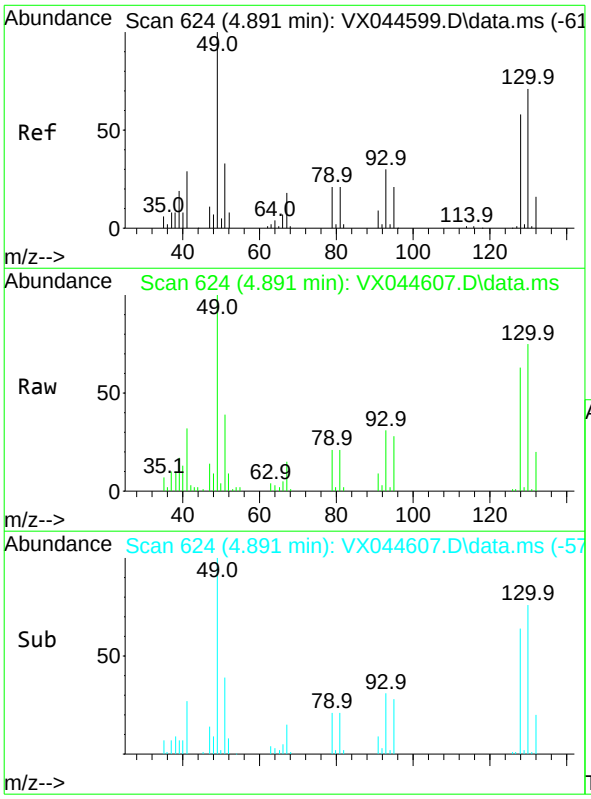
Ion	Ratio	Lower	Upper
96	100		
61	158.3	0.0	302.8
98	64.5	0.0	130.0



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Manual Integrations
APPROVED

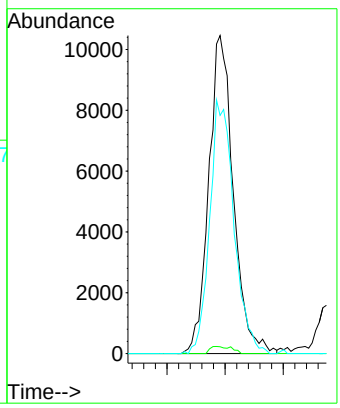
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

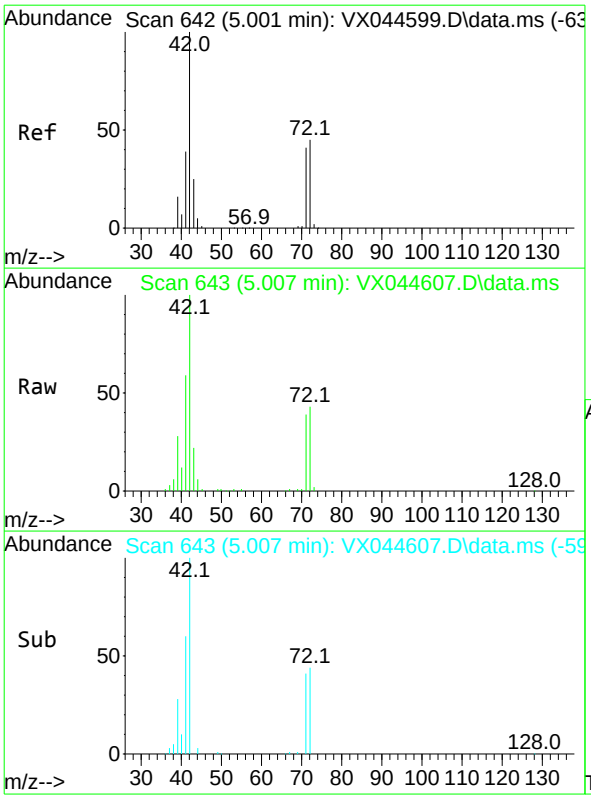


#28
Bromochloromethane
Concen: 17.243 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 49 Resp: 30719

Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	4.2
130	78.4	58.8	88.2

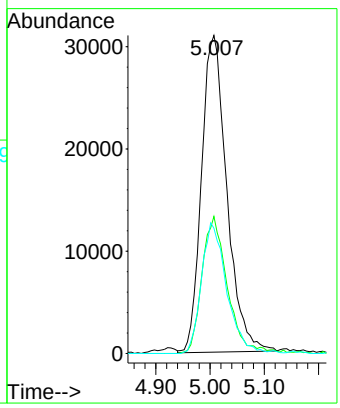




#29
Tetrahydrofuran
Concen: 116.608 ug/l
RT: 5.007 min Scan# 64
Delta R.T. 0.006 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 42 Resp: 100588

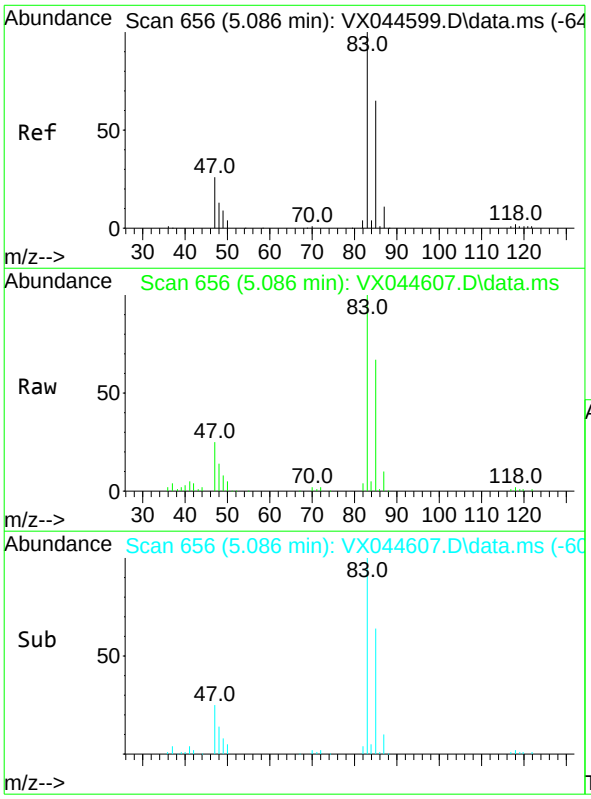
Ion	Ratio	Lower	Upper
42	100		
72	43.2	36.1	54.1
71	40.8	33.0	49.6



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Manual Integrations
APPROVED

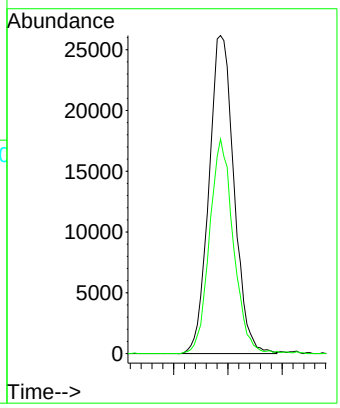
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

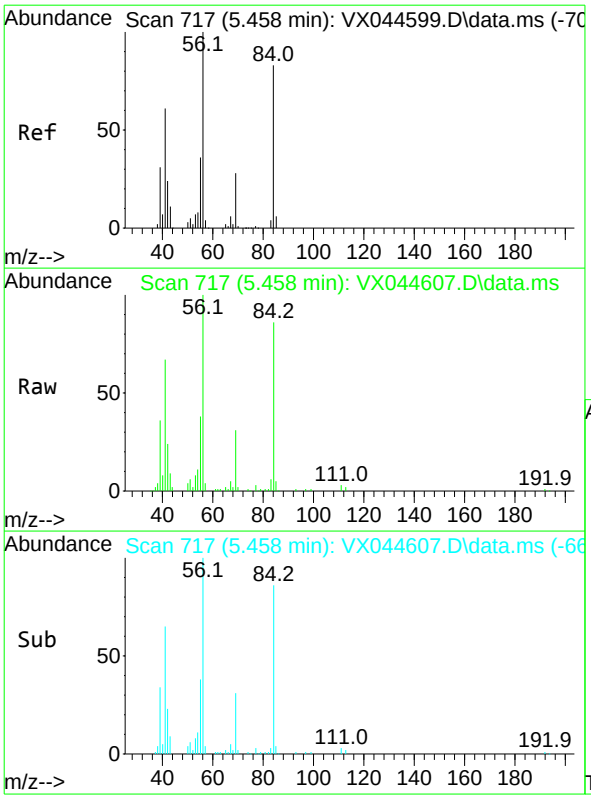


#30
Chloroform
Concen: 20.366 ug/l
RT: 5.086 min Scan# 656
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 83 Resp: 84027

Ion	Ratio	Lower	Upper
83	100		
85	67.4	52.3	78.5





#31
Cyclohexane
Concen: 19.737 ug/l
RT: 5.458 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

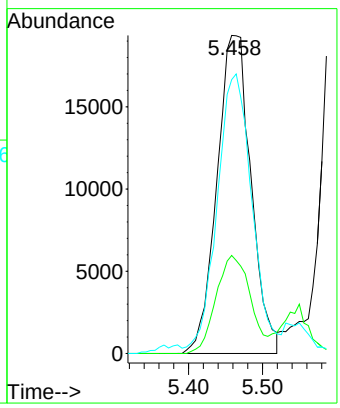
Tgt Ion: 56 Resp: 62019

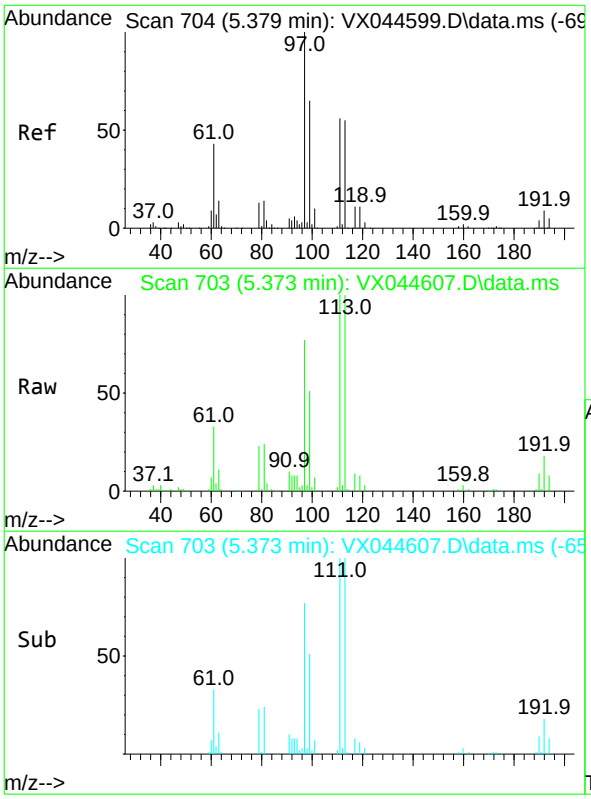
Ion	Ratio	Lower	Upper
56	100		
69	30.8	22.2	33.4
84	83.4	66.6	100.0

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

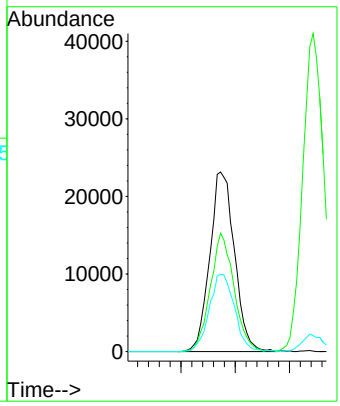


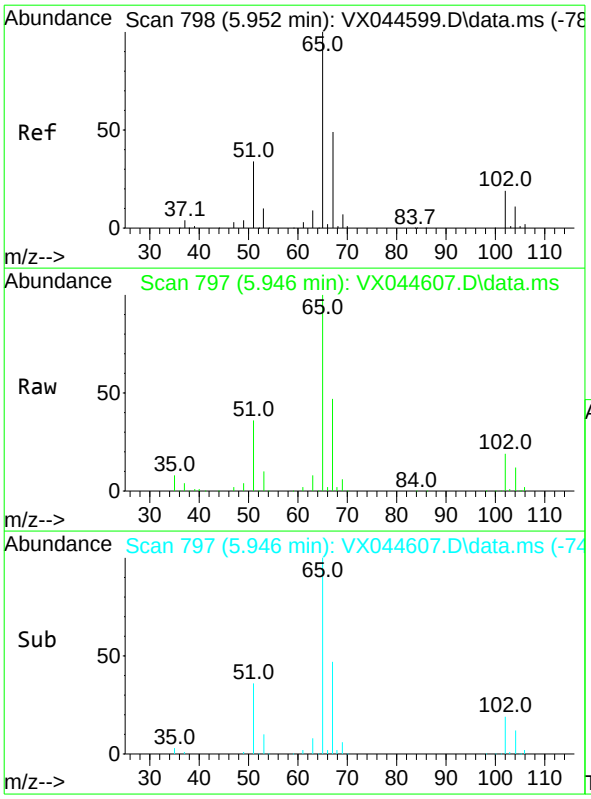


#32
1,1,1-Trichloroethane
Concen: 21.092 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.006 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 97 Resp: 73236

Ion	Ratio	Lower	Upper
97	100		
99	63.4	52.1	78.1
61	43.9	36.8	55.2

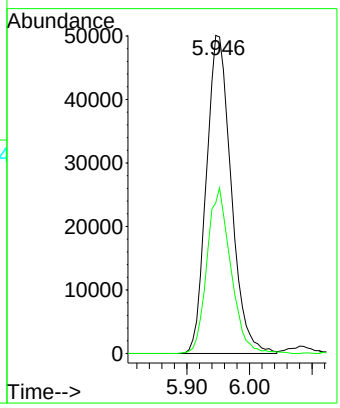




#33
1,2-Dichloroethane-d4
Concen: 49.741 ug/l
RT: 5.946 min Scan# 79
Delta R.T. -0.006 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 65 Resp: 137729

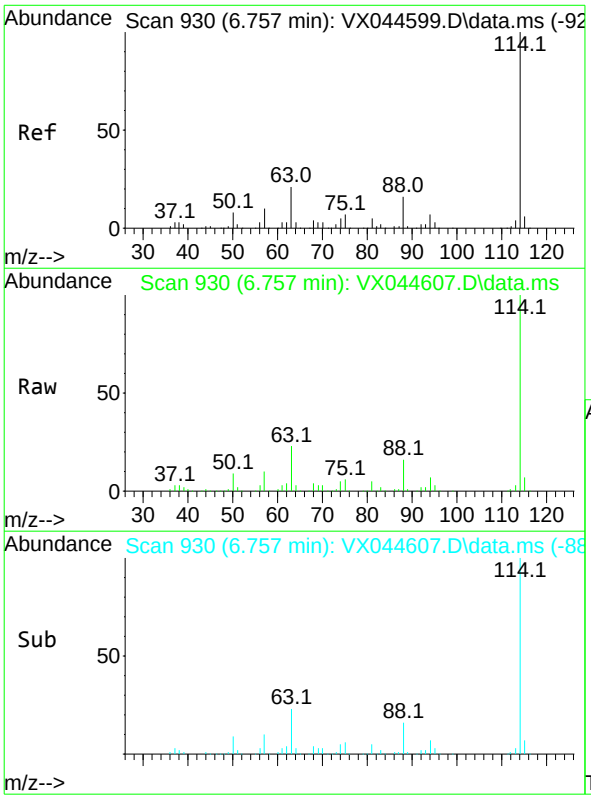
Ion	Ratio	Lower	Upper
65	100		
67	49.9	0.0	99.0



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Manual Integrations
APPROVED

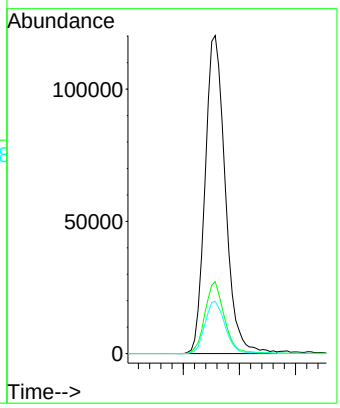
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

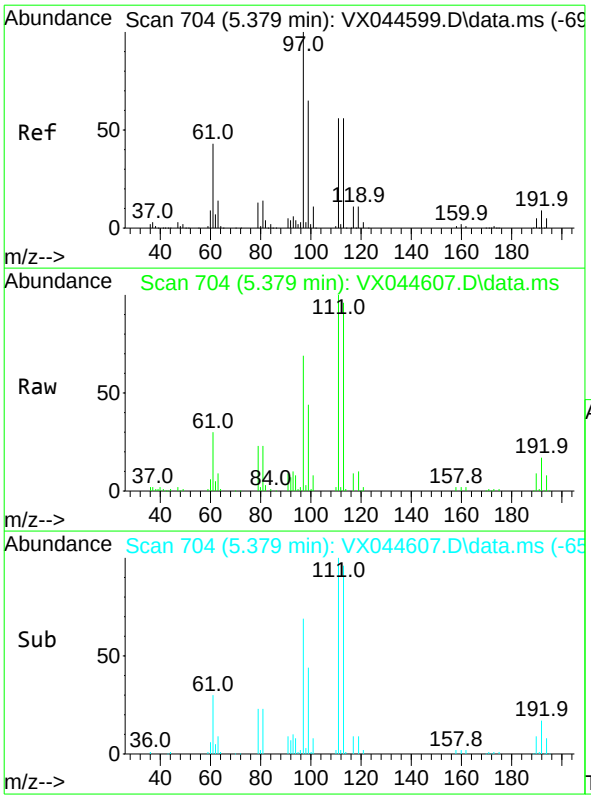


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion:114 Resp: 300759

Ion	Ratio	Lower	Upper
114	100		
63	22.6	0.0	42.6
88	16.4	0.0	32.6

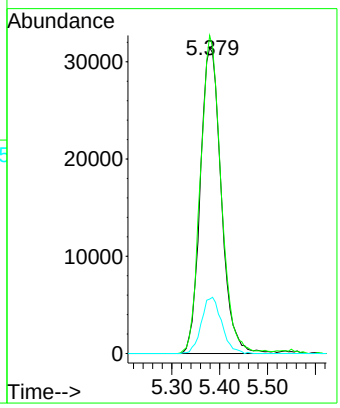




#35
Dibromofluoromethane
Concen: 46.327 ug/l
RT: 5.379 min Scan# 70
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion:113 Resp: 95542

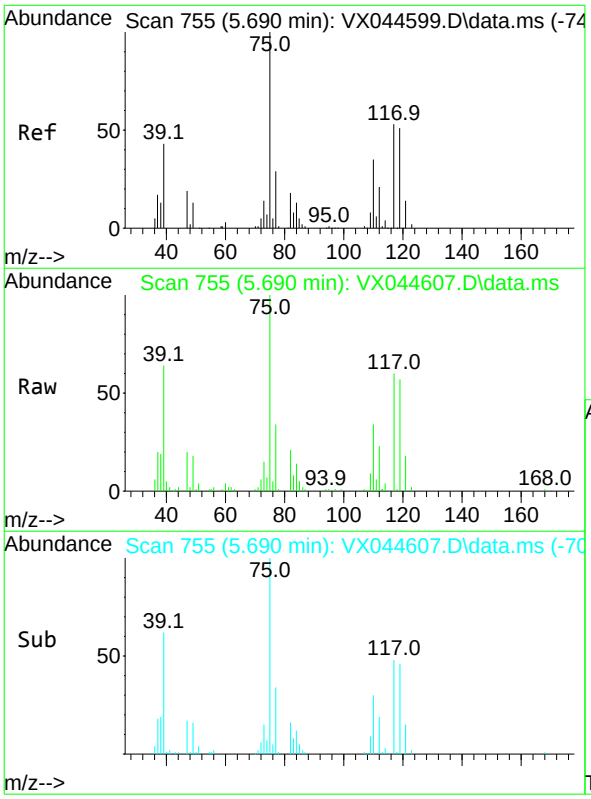
Ion	Ratio	Lower	Upper
113	100		
111	102.1	83.3	124.9
192	17.9	14.3	21.5



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Manual Integrations APPROVED

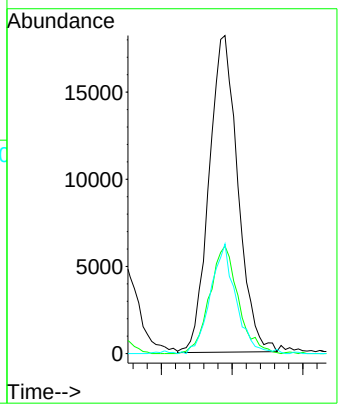
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

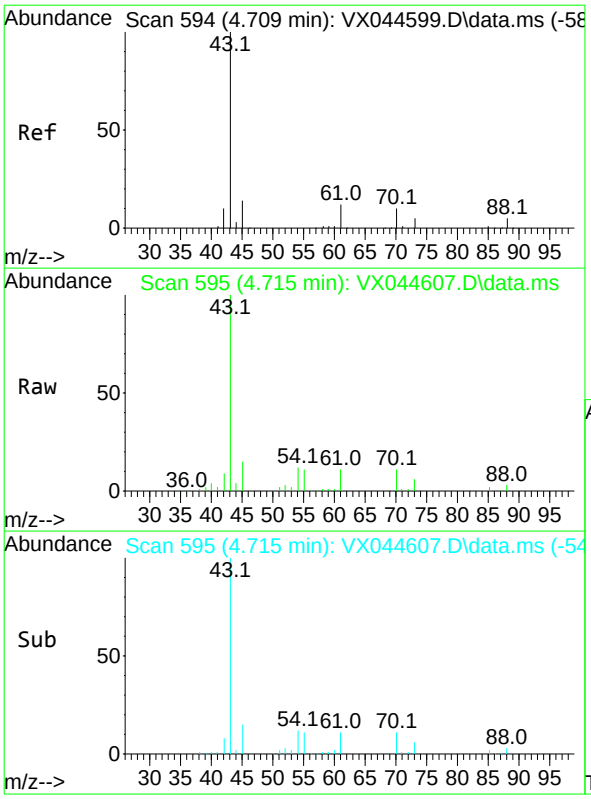


#36
1,1-Dichloropropene
Concen: 19.287 ug/l
RT: 5.690 min Scan# 755
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 75 Resp: 51434

Ion	Ratio	Lower	Upper
75	100		
110	33.7	17.3	51.9
77	30.8	24.7	37.1





#37
Ethyl Acetate
Concen: 22.951 ug/l
RT: 4.715 min Scan# 59
Delta R.T. 0.006 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

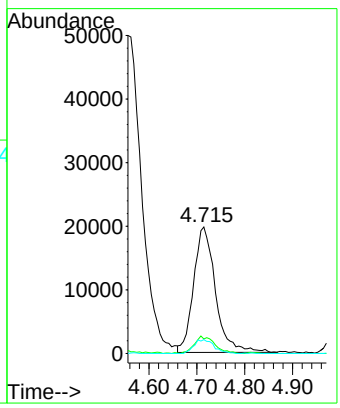
Tgt Ion: 43 Resp: 62610

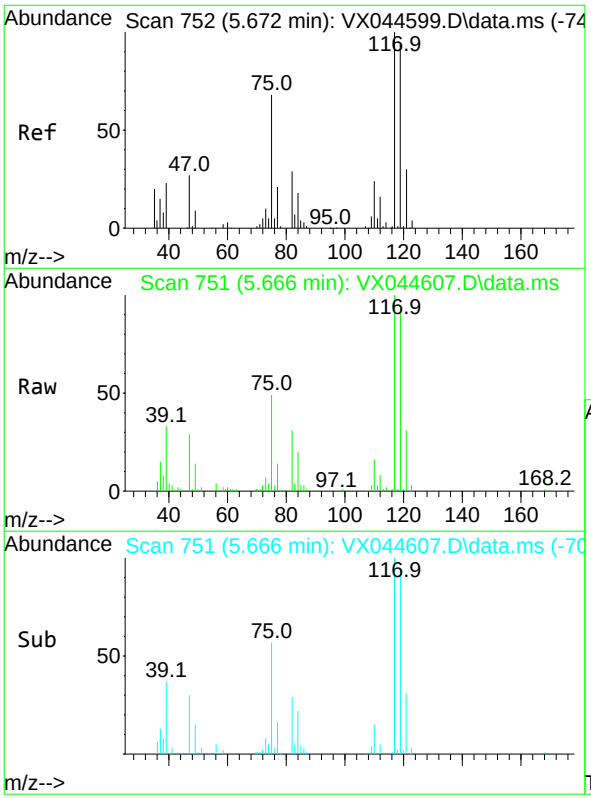
Ion	Ratio	Lower	Upper
43	100		
61	12.9	9.9	14.9
70	10.1	8.0	12.0

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

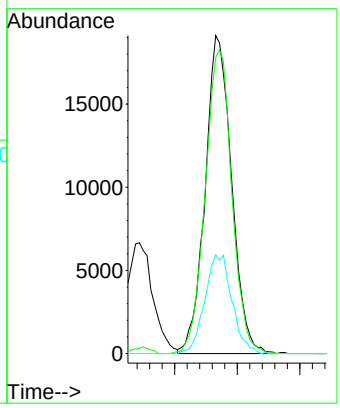


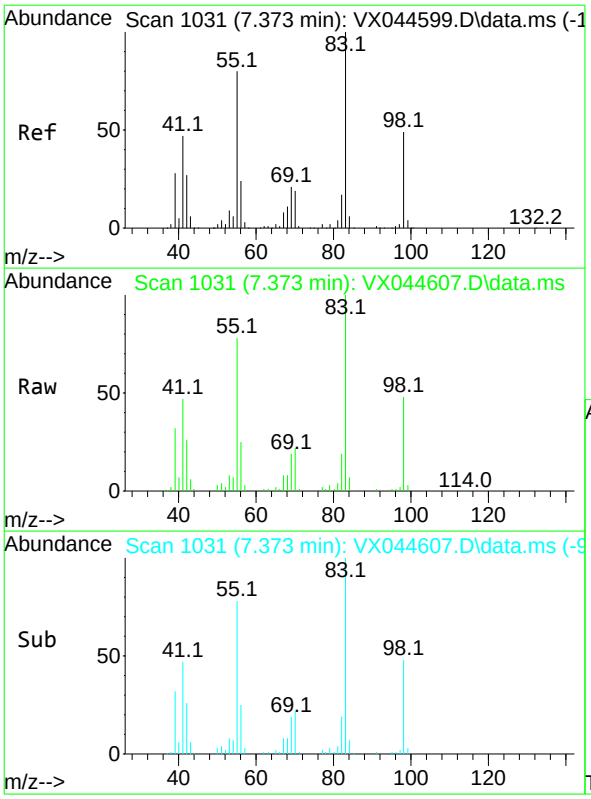


#38
Carbon Tetrachloride
Concen: 18.987 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion:117 Resp: 56180

Ion	Ratio	Lower	Upper
117	100		
119	93.1	74.5	111.7
121	31.1	24.1	36.1

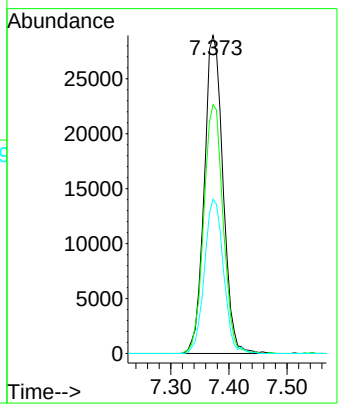




#39
Methylcyclohexane
Concen: 19.073 ug/l
RT: 7.373 min Scan# 10
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 83 Resp: 64900

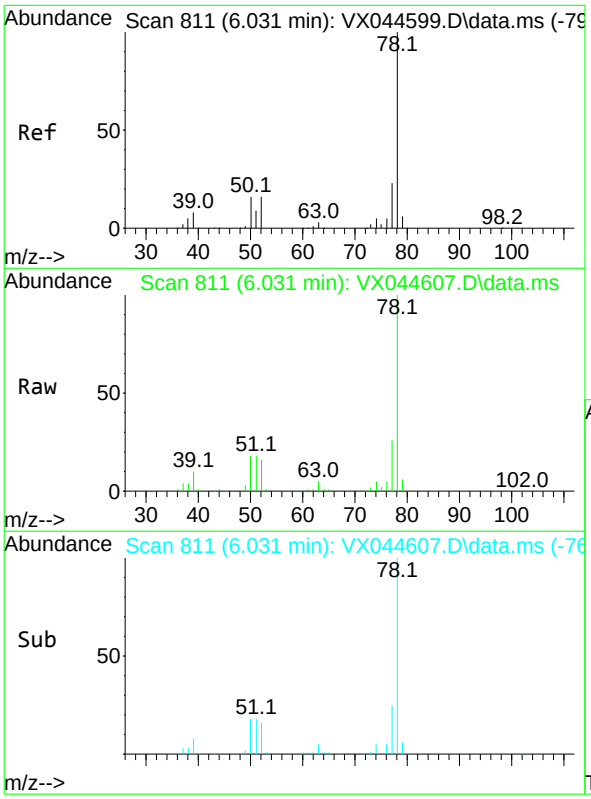
Ion	Ratio	Lower	Upper
83	100		
55	78.2	64.1	96.1
98	48.5	38.9	58.3



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Manual Integrations
APPROVED

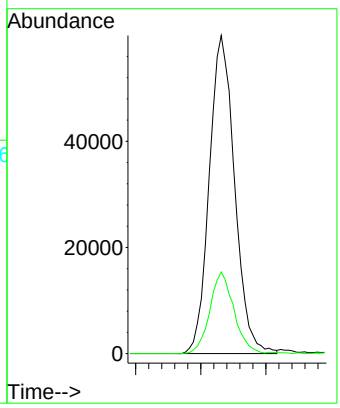
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

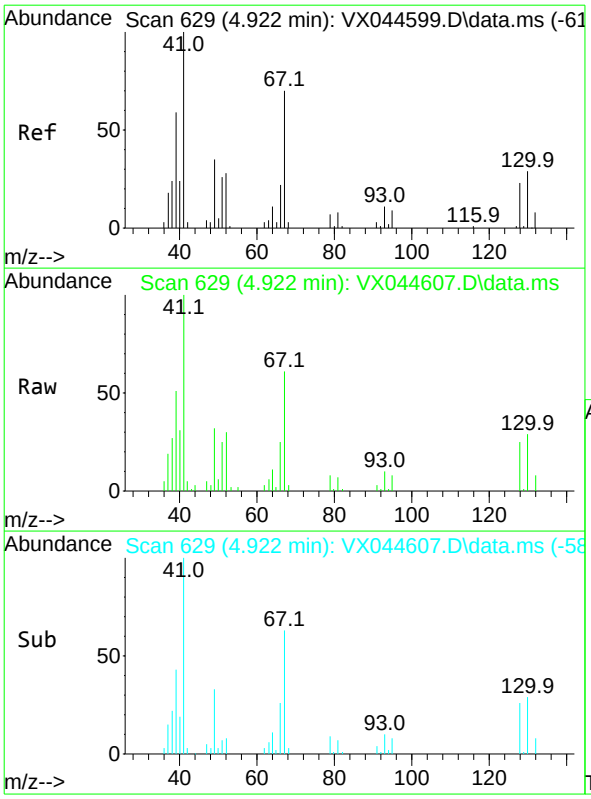


#40
Benzene
Concen: 19.300 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 78 Resp: 162053

Ion	Ratio	Lower	Upper
78	100		
77	25.7	18.8	28.2

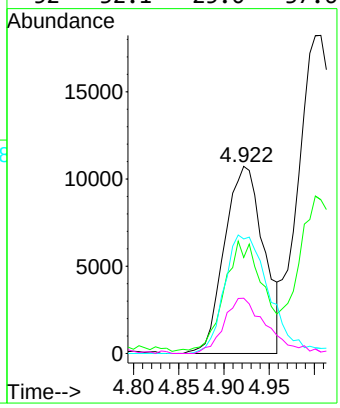




#41
Methacrylonitrile
Concen: 22.184 ug/l
RT: 4.922 min Scan# 62
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 41 Resp: 32484

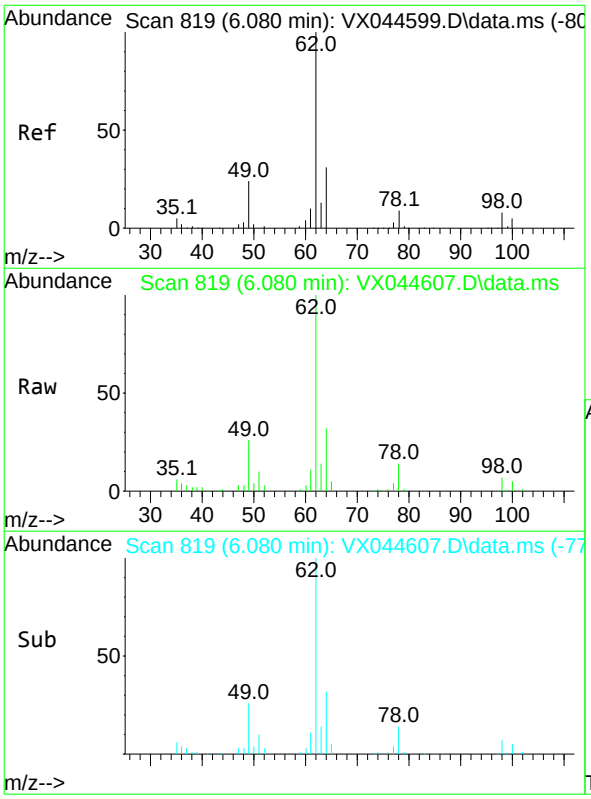
Ion	Ratio	Lower	Upper
41	100		
39	56.3	47.0	70.4
67	72.9	57.4	86.2
52	32.1	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Manual Integrations APPROVED

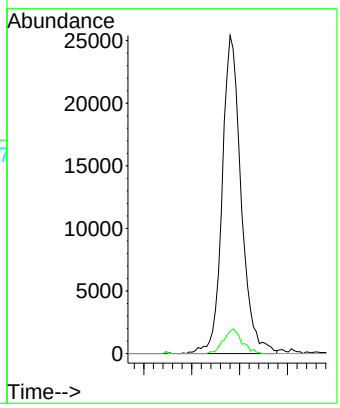
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

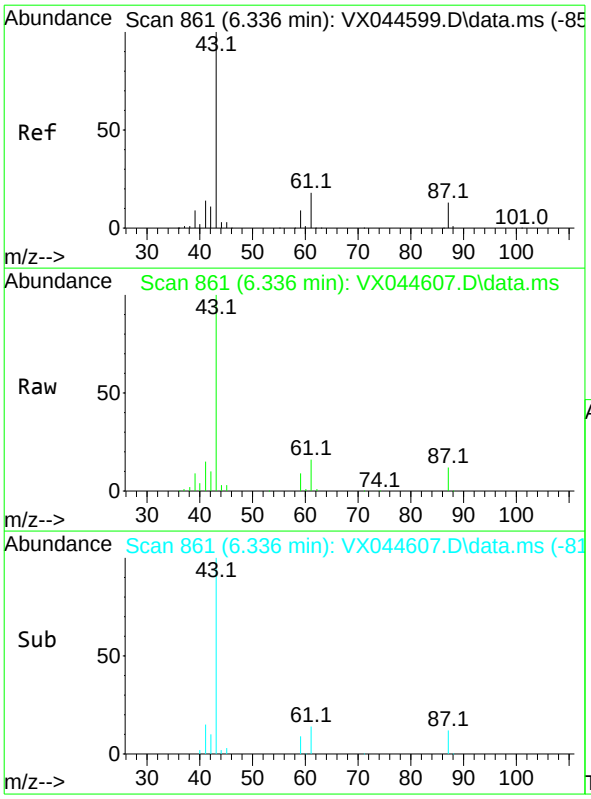


#42
1,2-Dichloroethane
Concen: 21.323 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 62 Resp: 70018

Ion	Ratio	Lower	Upper
62	100		
98	7.6	0.0	15.8

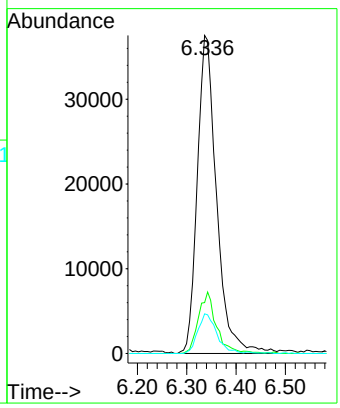




#43
Isopropyl Acetate
Concen: 22.650 ug/l
RT: 6.336 min Scan# 86
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 43 Resp: 101940

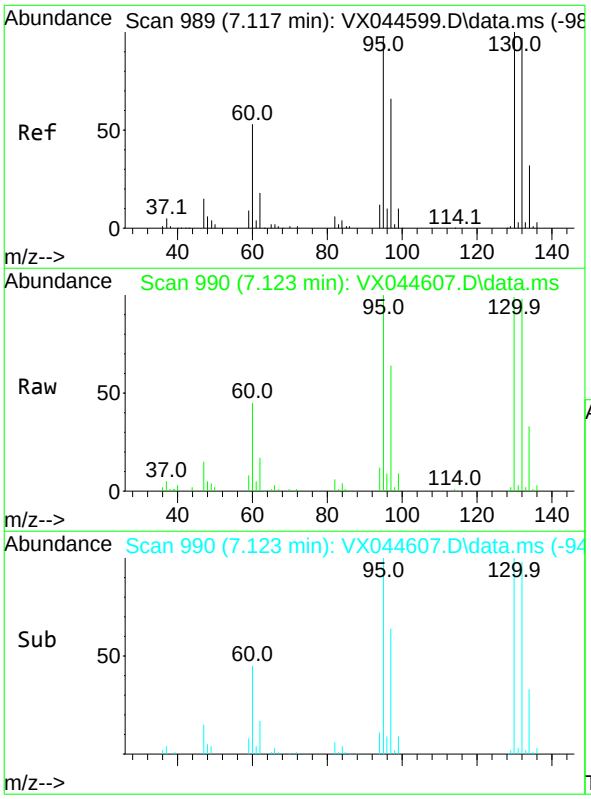
Ion	Ratio	Lower	Upper
43	100		
61	18.1	14.5	21.7
87	12.2	10.1	15.1



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Manual Integrations
APPROVED

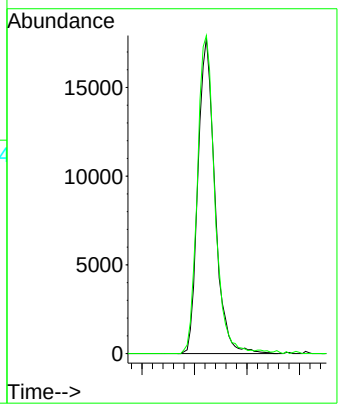
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

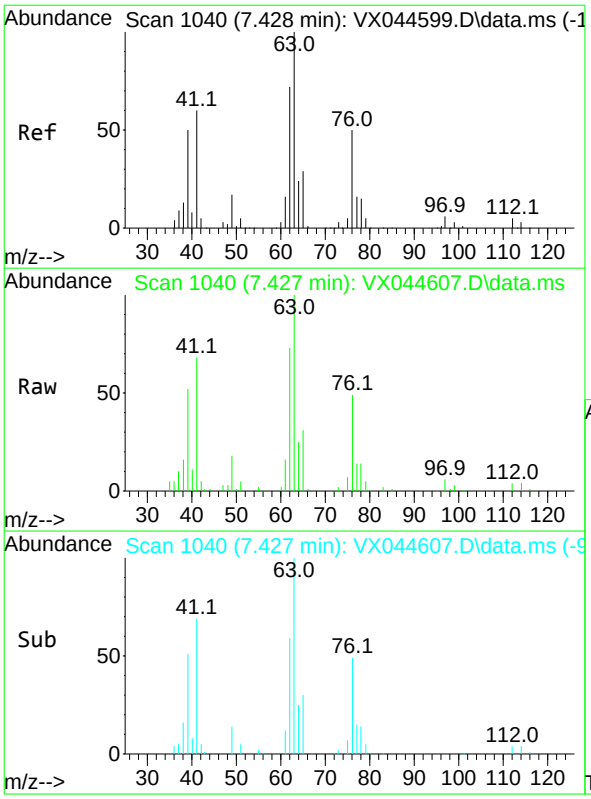


#44
Trichloroethene
Concen: 18.511 ug/l
RT: 7.123 min Scan# 990
Delta R.T. 0.006 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion:130 Resp: 39732

Ion	Ratio	Lower	Upper
130	100		
95	100.8	0.0	195.6

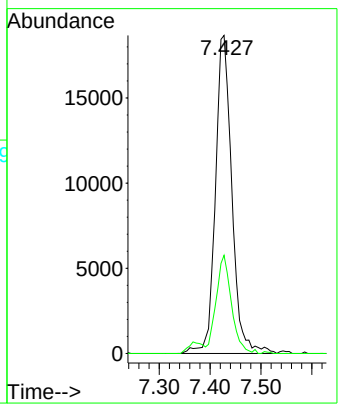




#45
1,2-Dichloropropane
Concen: 20.496 ug/l
RT: 7.427 min Scan# 10
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 63 Resp: 41958

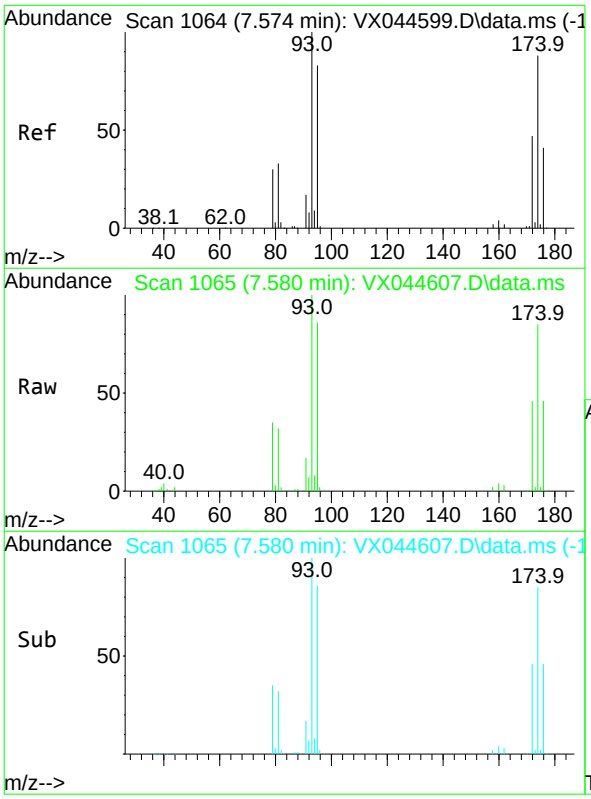
Ion	Ratio	Lower	Upper
63	100		
65	30.9	23.0	34.4



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Manual Integrations
APPROVED

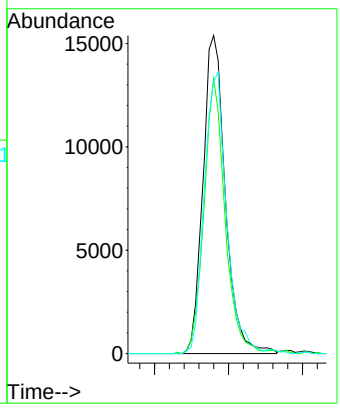
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

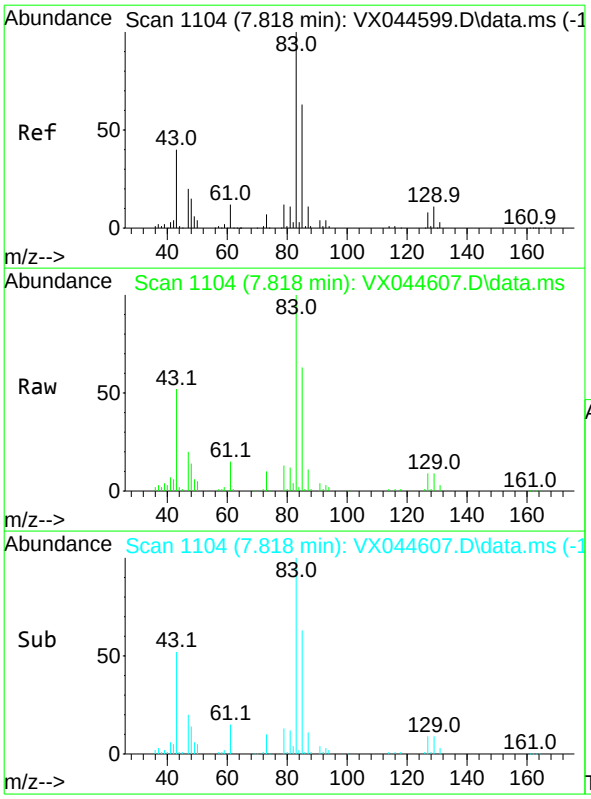


#46
Dibromomethane
Concen: 20.317 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. 0.006 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 93 Resp: 32347

Ion	Ratio	Lower	Upper
93	100		
95	81.1	65.8	98.6
174	88.2	73.4	110.0

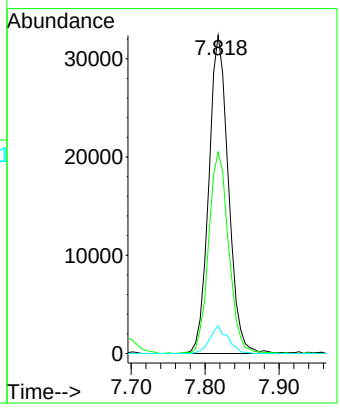




#47
Bromodichloromethane
Concen: 20.596 ug/l
RT: 7.818 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 83 Resp: 59672

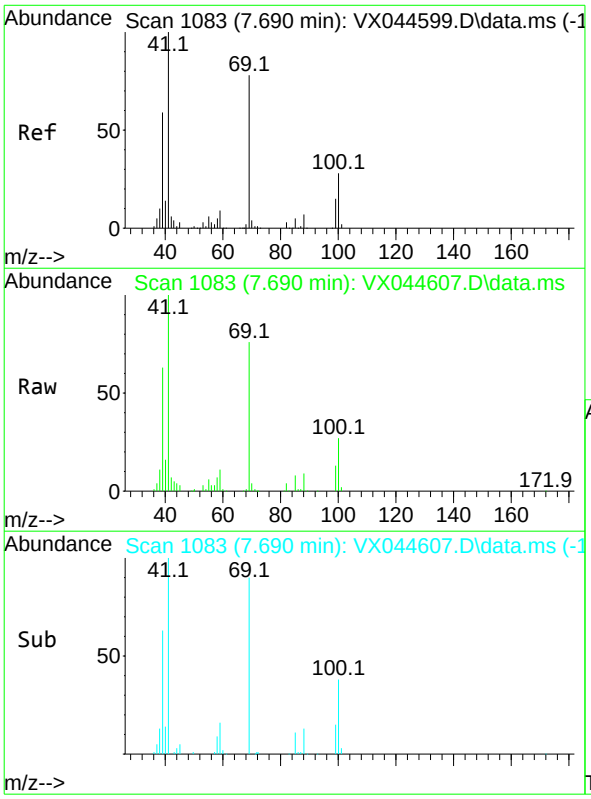
Ion	Ratio	Lower	Upper
83	100		
85	63.4	50.4	75.6
127	8.7	6.2	9.4



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Manual Integrations APPROVED

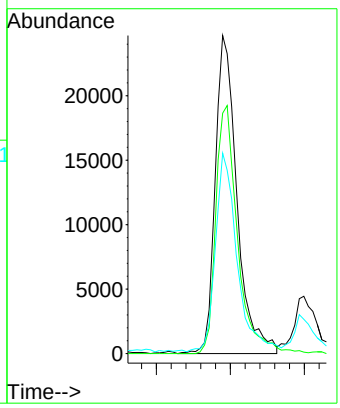
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

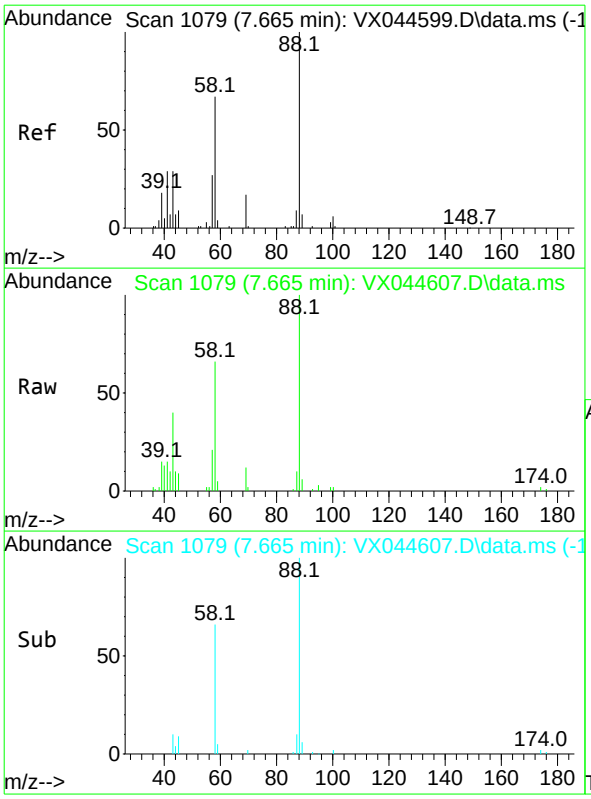


#48
Methyl methacrylate
Concen: 23.451 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 41 Resp: 50339

Ion	Ratio	Lower	Upper
41	100		
69	78.4	62.9	94.3
39	62.4	48.9	73.3

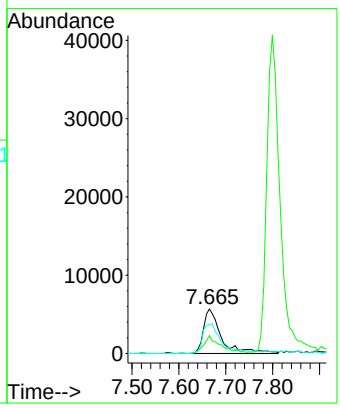




#49
1,4-Dioxane
Concen: 474.412 ug/l m
RT: 7.665 min Scan# 10
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 88 Resp: 14965

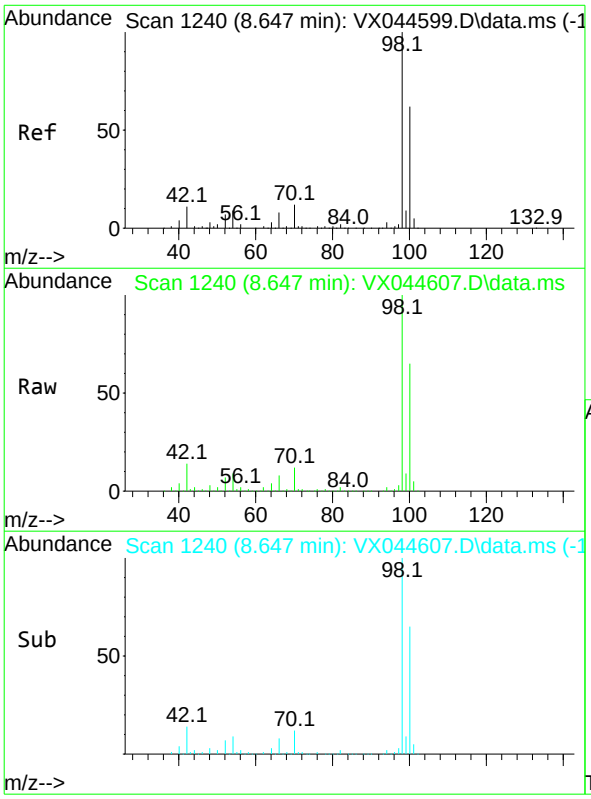
Ion	Ratio	Lower	Upper
88	100		
43	37.7	29.5	44.3
58	71.6	56.3	84.5



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Manual Integrations
APPROVED

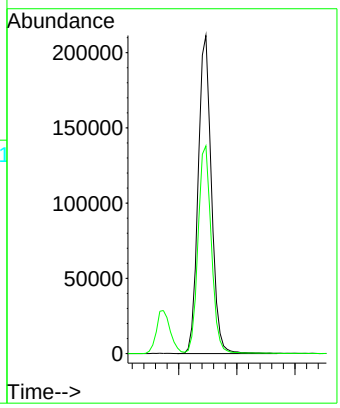
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

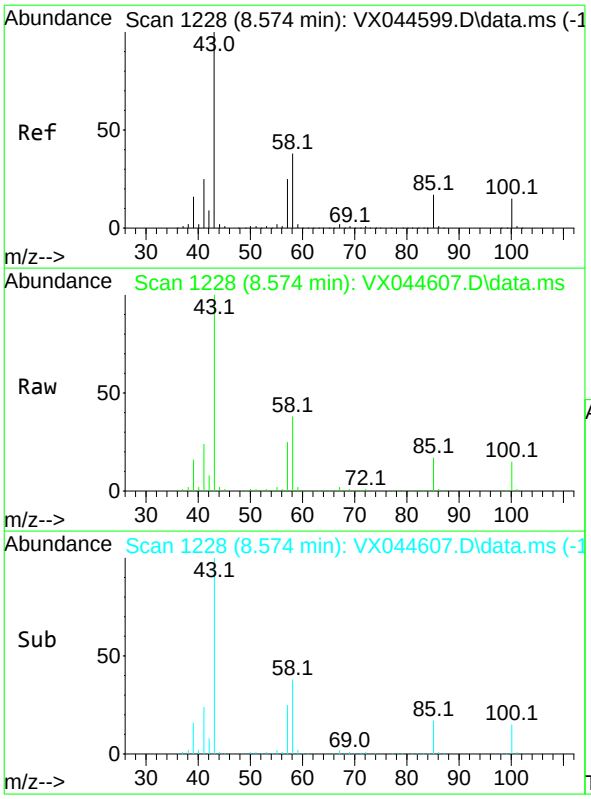


#50
Toluene-d8
Concen: 47.539 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 98 Resp: 334889

Ion	Ratio	Lower	Upper
98	100		
100	65.5	52.5	78.7





#51
4-Methyl-2-Pentanone
Concen: 121.261 ug/l
RT: 8.574 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

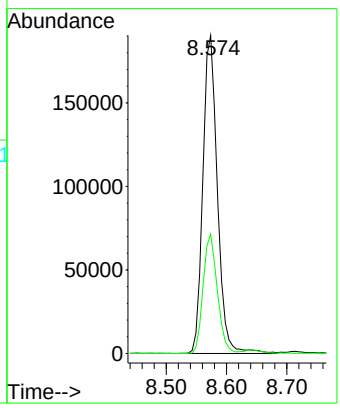
Tgt Ion: 43 Resp: 319022

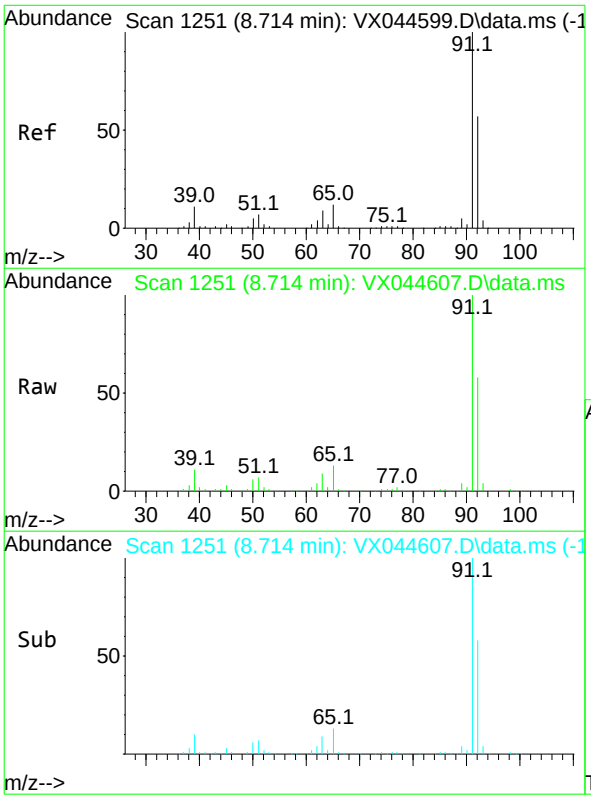
Ion	Ratio	Lower	Upper
43	100		
58	36.5	30.0	45.0

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Manual Integrations APPROVED

Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

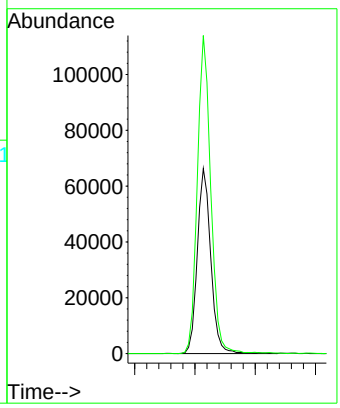


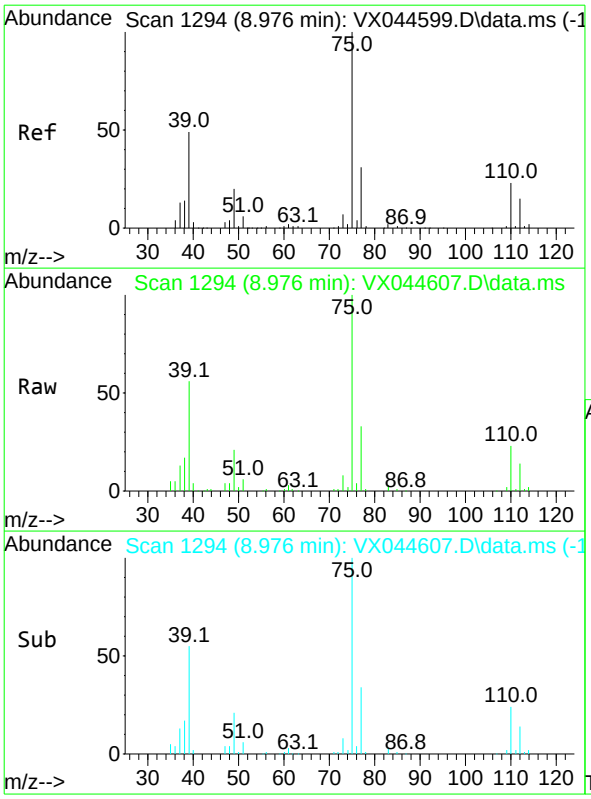


#52
Toluene
Concen: 20.292 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 92 Resp: 102803

Ion	Ratio	Lower	Upper
92	100		
91	170.8	140.6	210.8

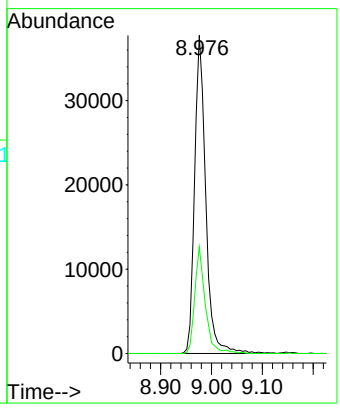




#53
t-1,3-Dichloropropene
Concen: 20.805 ug/l
RT: 8.976 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 75 Resp: 57617

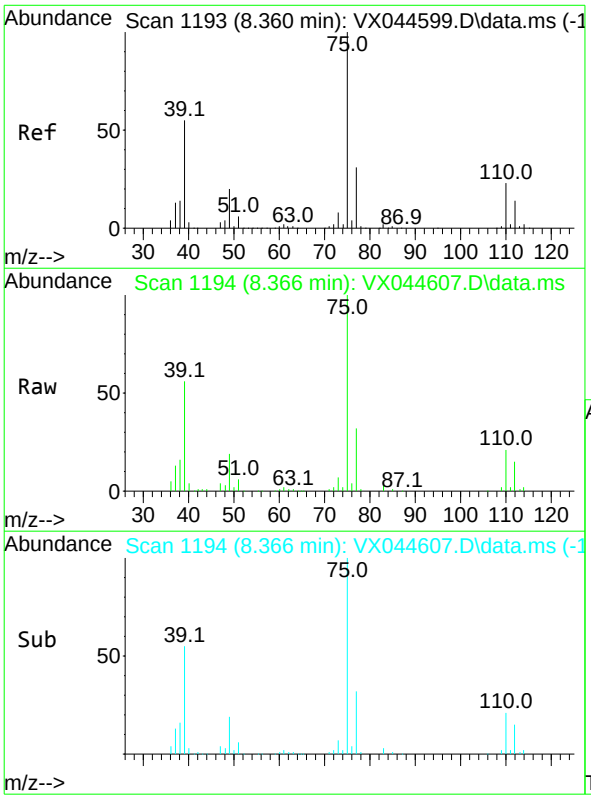
Ion	Ratio	Lower	Upper
75	100		
77	33.5	24.8	37.2



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Manual Integrations APPROVED

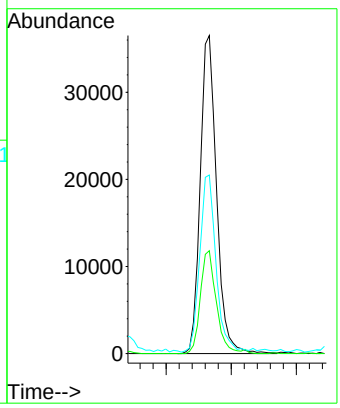
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

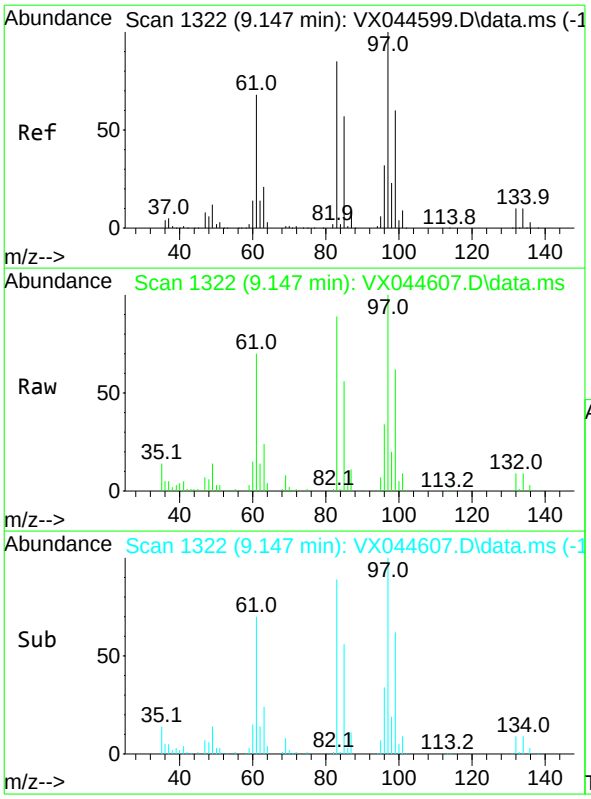


#54
cis-1,3-Dichloropropene
Concen: 20.417 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.006 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 75 Resp: 63548

Ion	Ratio	Lower	Upper
75	100		
77	32.3	24.5	36.7
39	55.3	44.3	66.5

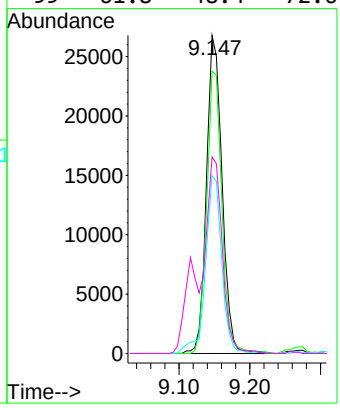




#55
1,1,2-Trichloroethane
Concen: 20.668 ug/l
RT: 9.147 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 97 Resp: 41049

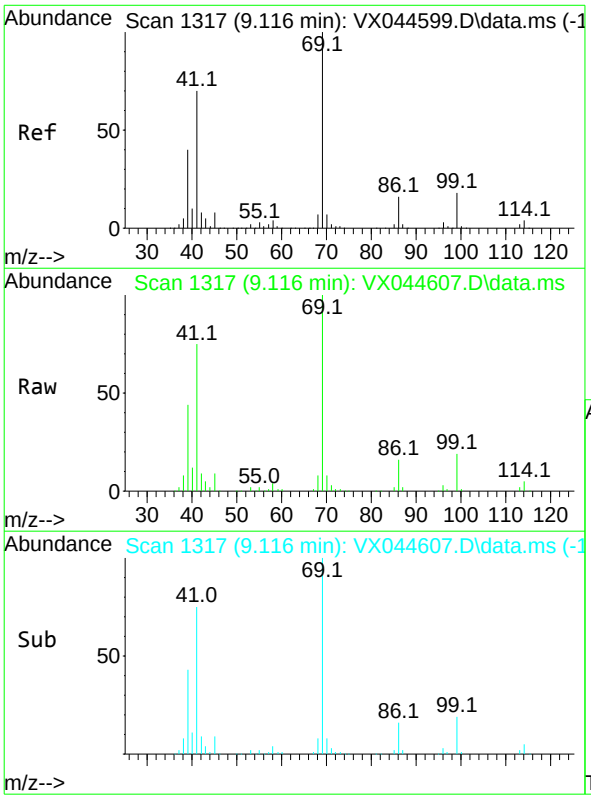
Ion	Ratio	Lower	Upper
97	100		
83	88.8	68.0	102.0
85	55.9	45.4	68.0
99	61.8	48.4	72.6



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Manual Integrations APPROVED

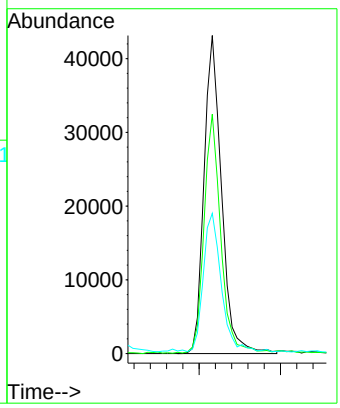
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

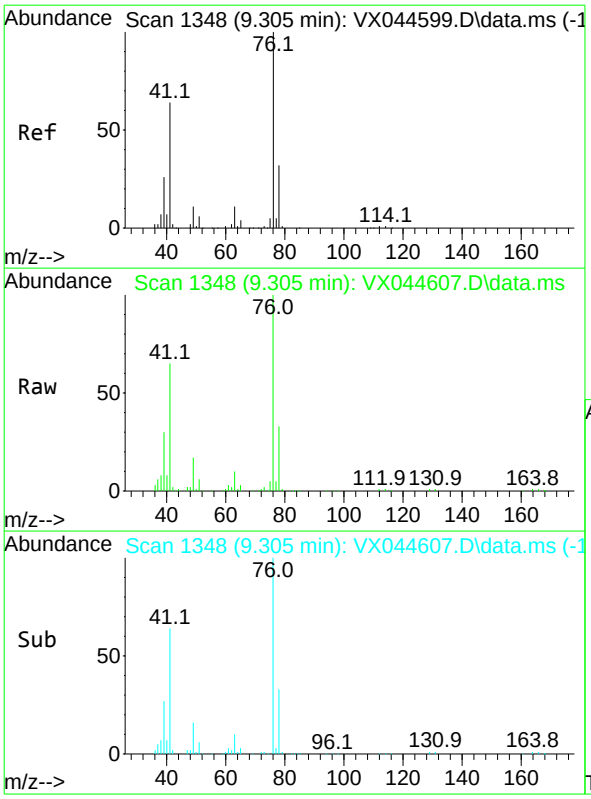


#56
Ethyl methacrylate
Concen: 22.340 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 69 Resp: 64529

Ion	Ratio	Lower	Upper
69	100		
41	71.6	57.7	86.5
39	44.2	33.7	50.5

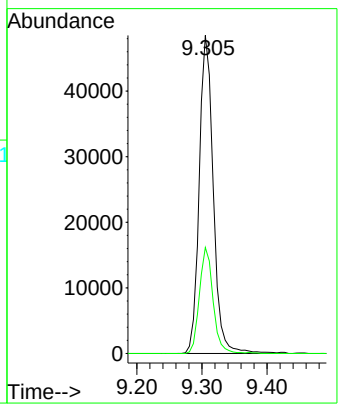




#57
1,3-Dichloropropane
Concen: 21.824 ug/l
RT: 9.305 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 76 Resp: 72788

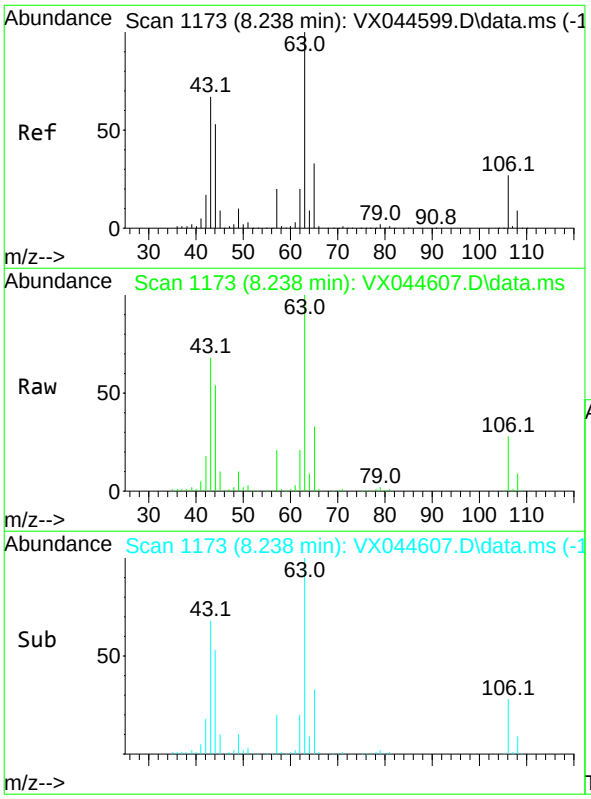
Ion	Ratio	Lower	Upper
76	100		
78	32.3	25.8	38.8



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Manual Integrations
APPROVED

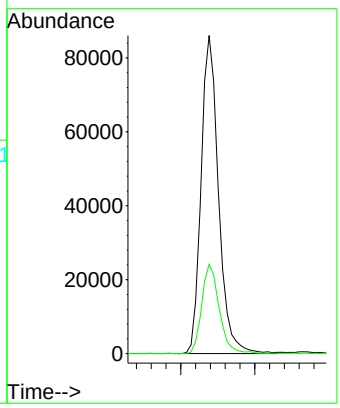
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

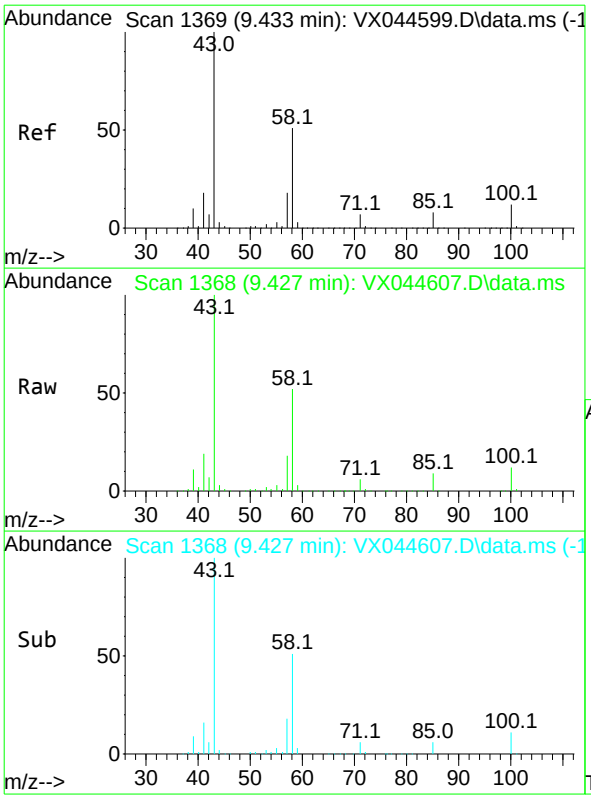


#58
2-Chloroethyl Vinyl ether
Concen: 98.074 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 63 Resp: 140437

Ion	Ratio	Lower	Upper
63	100		
106	28.1	22.4	33.6

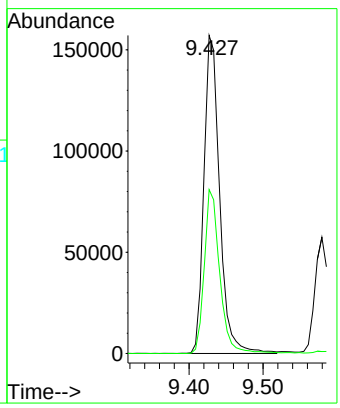




#59
2-Hexanone
Concen: 124.510 ug/l
RT: 9.427 min Scan# 13
Delta R.T. -0.006 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 43 Resp: 231665

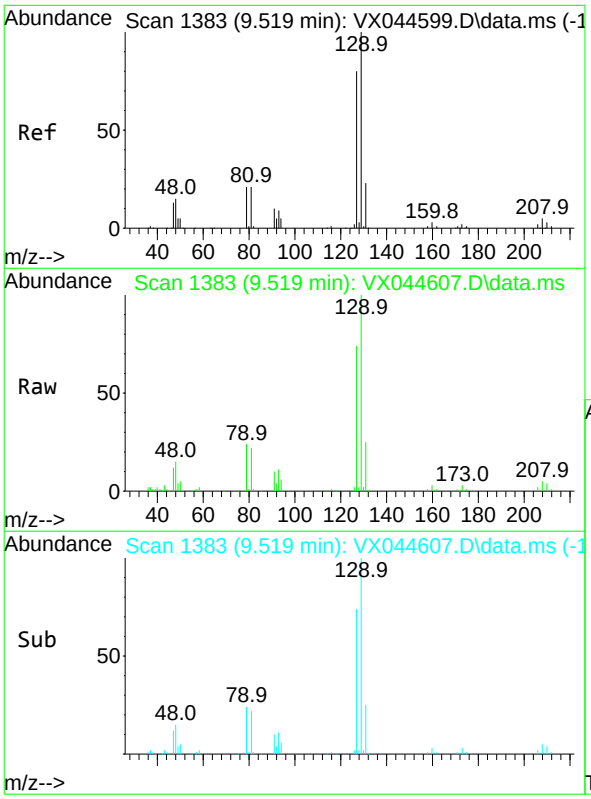
Ion	Ratio	Lower	Upper
43	100		
58	50.6	25.4	76.4



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Manual Integrations
APPROVED

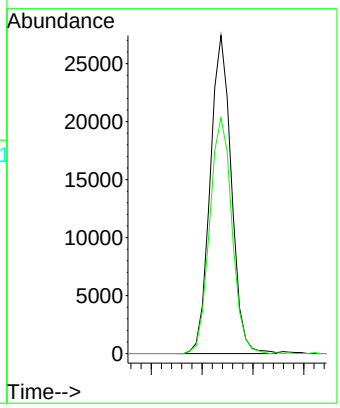
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

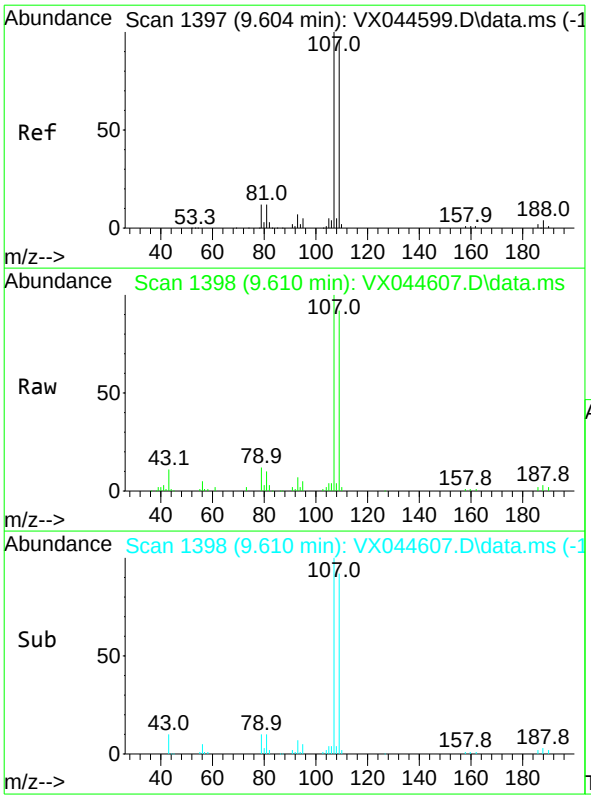


#60
Dibromochloromethane
Concen: 20.011 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion:129 Resp: 39629

Ion	Ratio	Lower	Upper
129	100		
127	78.2	38.9	116.7

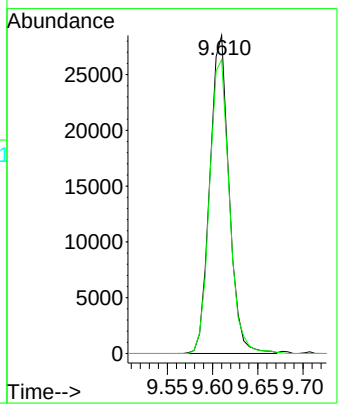




#61
1,2-Dibromoethane
Concen: 21.003 ug/l
RT: 9.610 min Scan# 13
Delta R.T. 0.006 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion:107 Resp: 42130

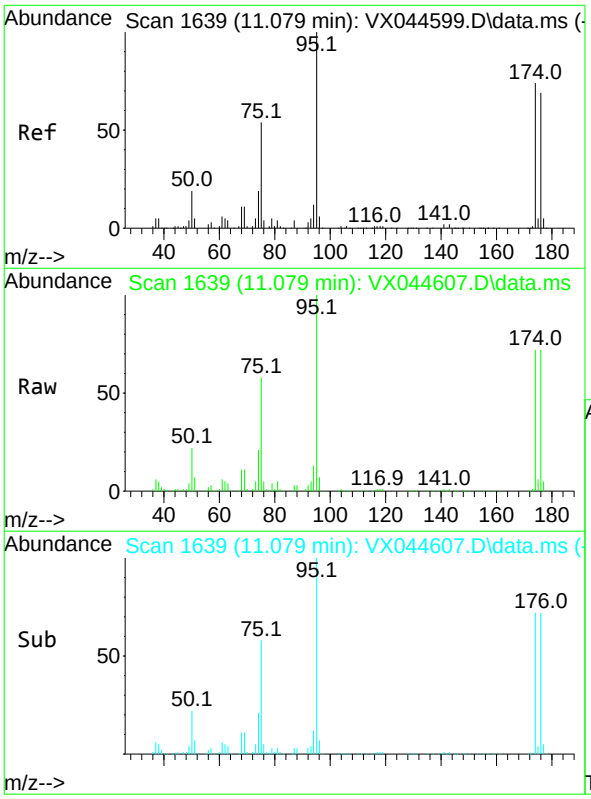
Ion	Ratio	Lower	Upper
107	100		
109	95.9	76.7	115.1



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Manual Integrations
APPROVED

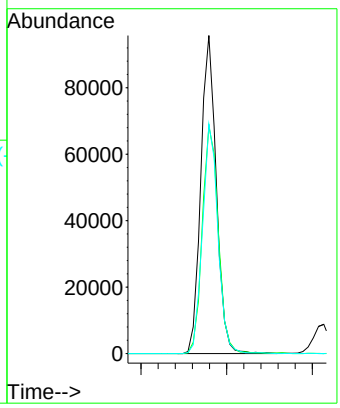
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

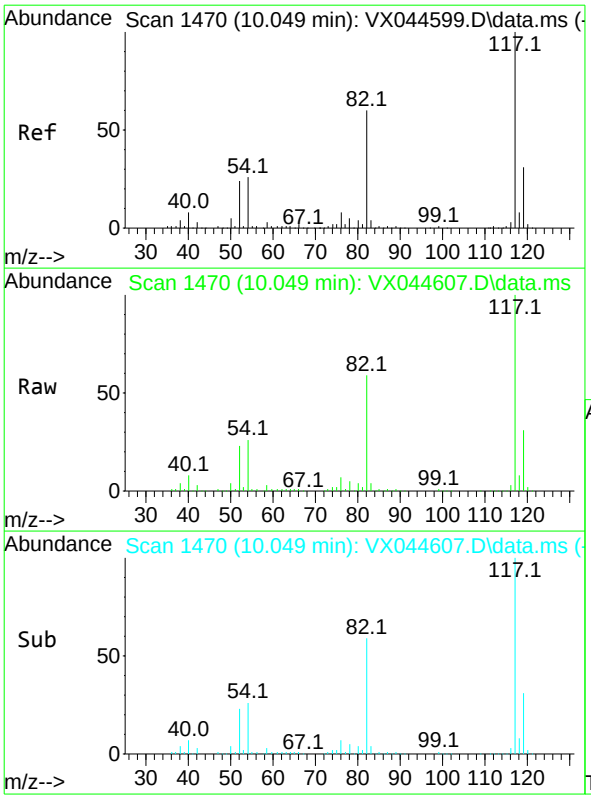


#62
4-Bromofluorobenzene
Concen: 48.375 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 95 Resp: 120282

Ion	Ratio	Lower	Upper
95	100		
174	73.9	0.0	148.8
176	71.8	0.0	139.8

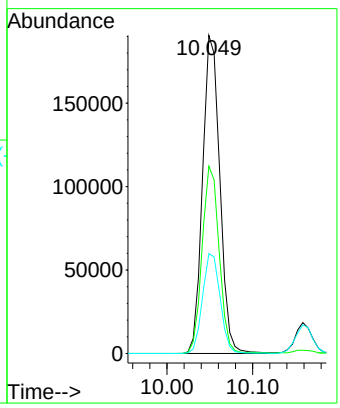




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion:117 Resp: 266797

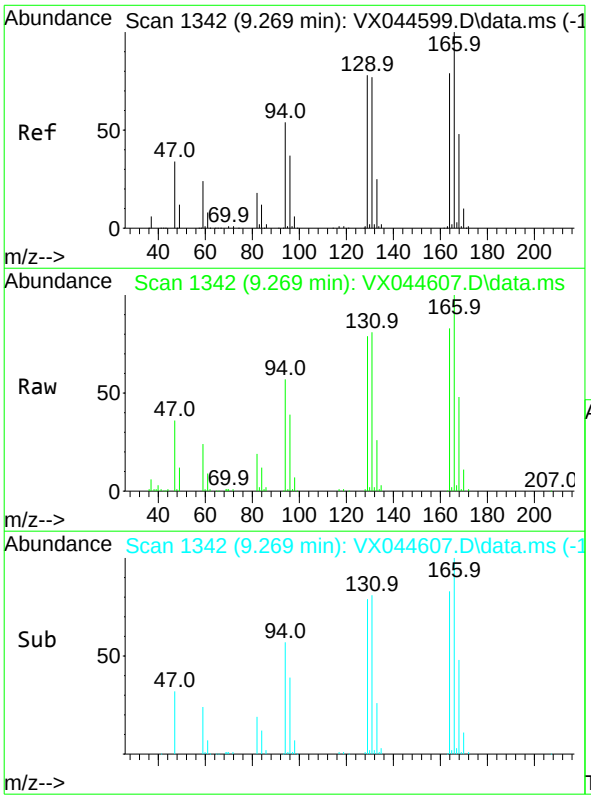
Ion	Ratio	Lower	Upper
117	100		
82	58.9	47.8	71.6
119	31.4	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Manual Integrations
APPROVED

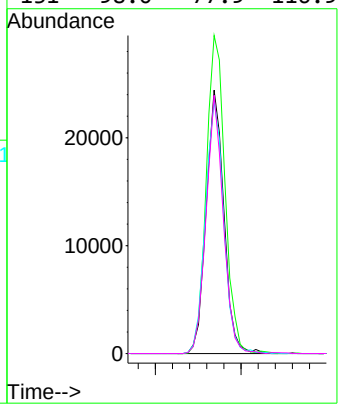
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

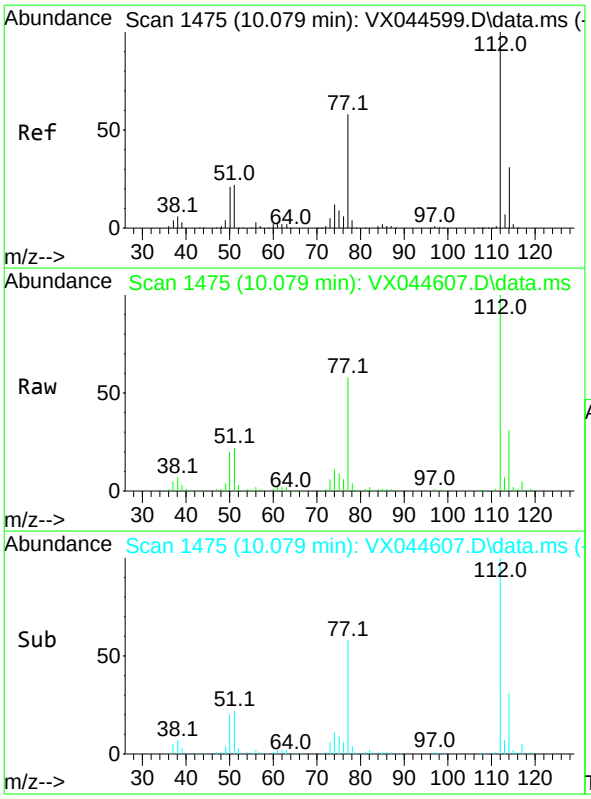


#64
Tetrachloroethene
Concen: 18.640 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion:164 Resp: 35162

Ion	Ratio	Lower	Upper
164	100		
166	120.7	101.5	152.3
129	95.7	78.9	118.3
131	98.0	77.9	116.9

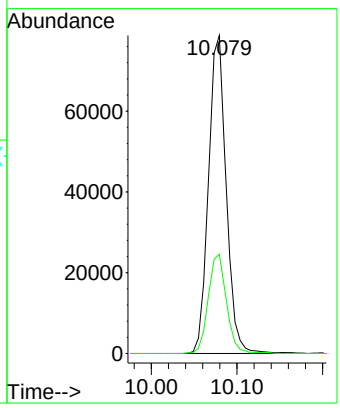




#65
Chlorobenzene
Concen: 19.923 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion:112 Resp: 112810

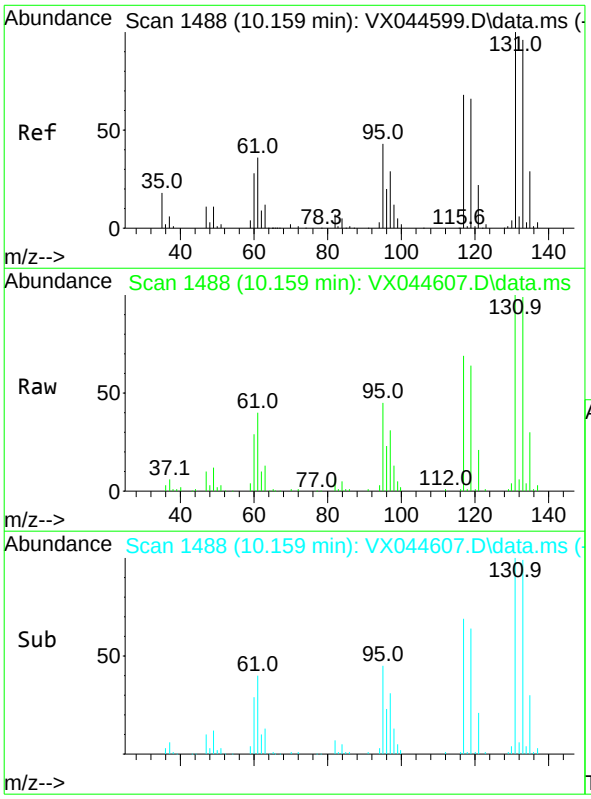
Ion	Ratio	Lower	Upper
112	100		
114	31.2	25.0	37.4



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Manual Integrations
APPROVED

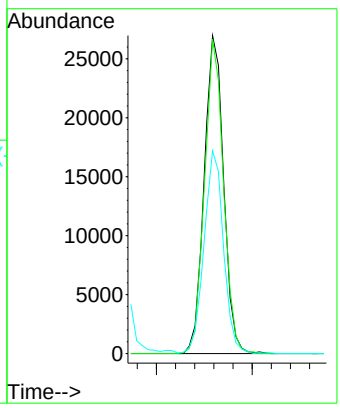
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

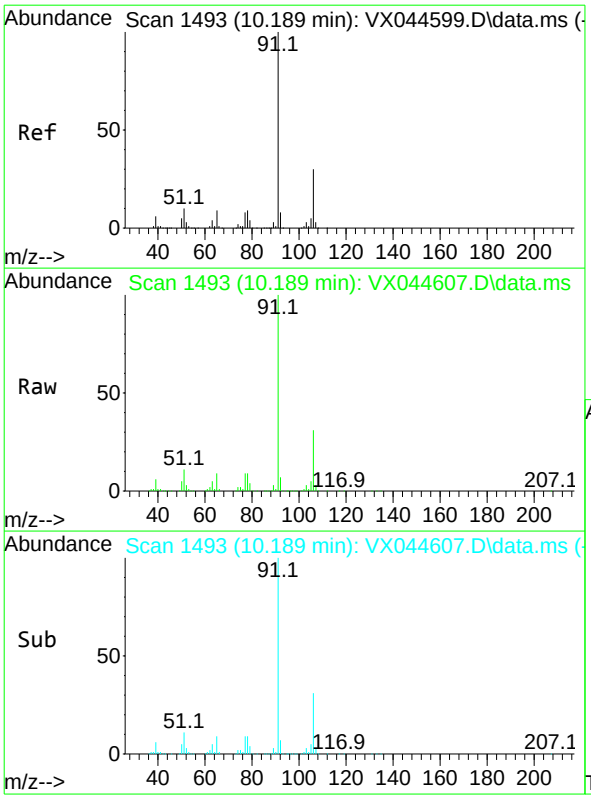


#66
1,1,1,2-Tetrachloroethane
Concen: 20.195 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion:131 Resp: 37980

Ion	Ratio	Lower	Upper
131	100		
133	96.1	48.0	144.0
119	63.4	32.8	98.4

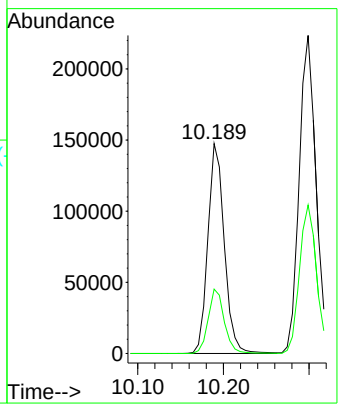




#67
Ethyl Benzene
Concen: 20.227 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 91 Resp: 196678

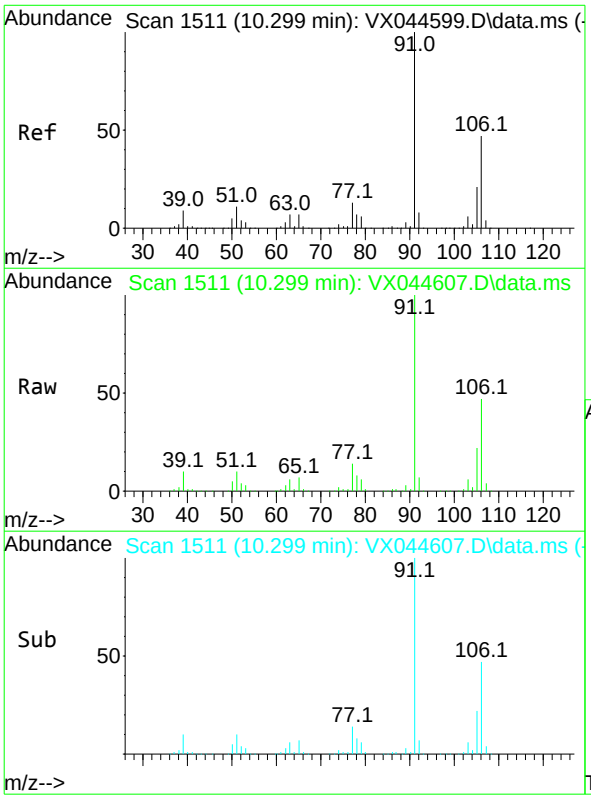
Ion	Ratio	Lower	Upper
91	100		
106	30.7	23.8	35.8



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Manual Integrations
APPROVED

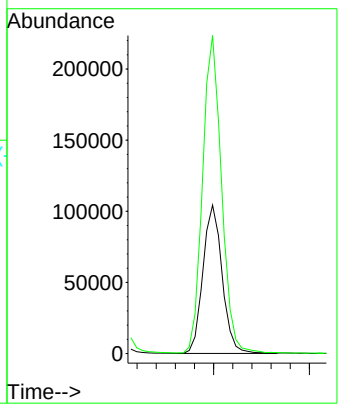
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

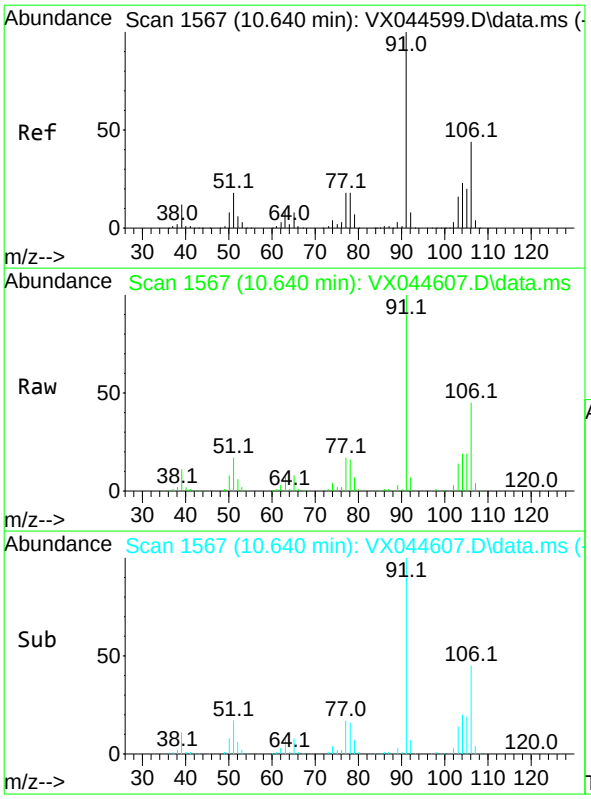


#68
m/p-Xylenes
Concen: 40.757 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion:106 Resp: 145628

Ion	Ratio	Lower	Upper
106	100		
91	212.5	170.4	255.6

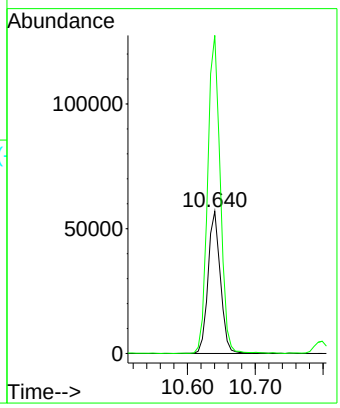




#69
o-Xylene
Concen: 19.981 ug/l
RT: 10.640 min Scan# 15
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion:106 Resp: 72061

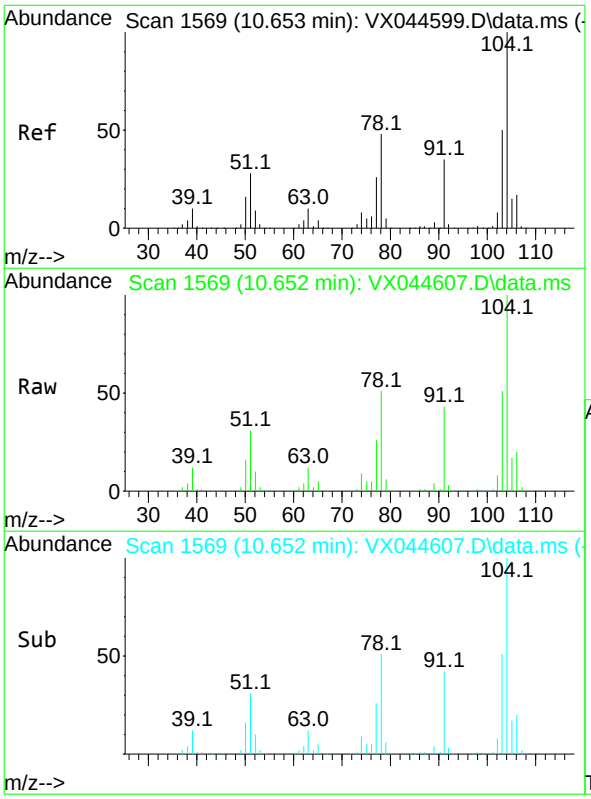
Ion	Ratio	Lower	Upper
106	100		
91	228.2	112.3	336.8



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Manual Integrations APPROVED

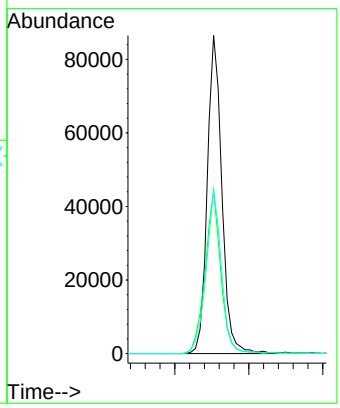
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

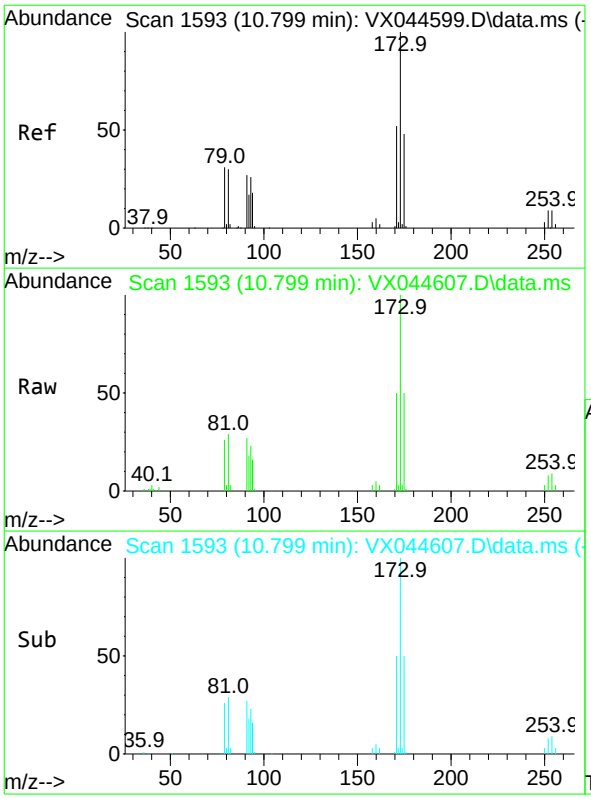


#70
Styrene
Concen: 20.510 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion:104 Resp: 118313

Ion	Ratio	Lower	Upper
104	100		
78	55.2	44.0	66.0
103	54.6	43.8	65.6

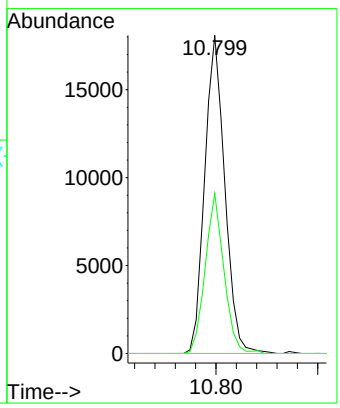




#71
Bromoform
Concen: 20.205 ug/l
RT: 10.799 min Scan# 15
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion:173 Resp: 24761

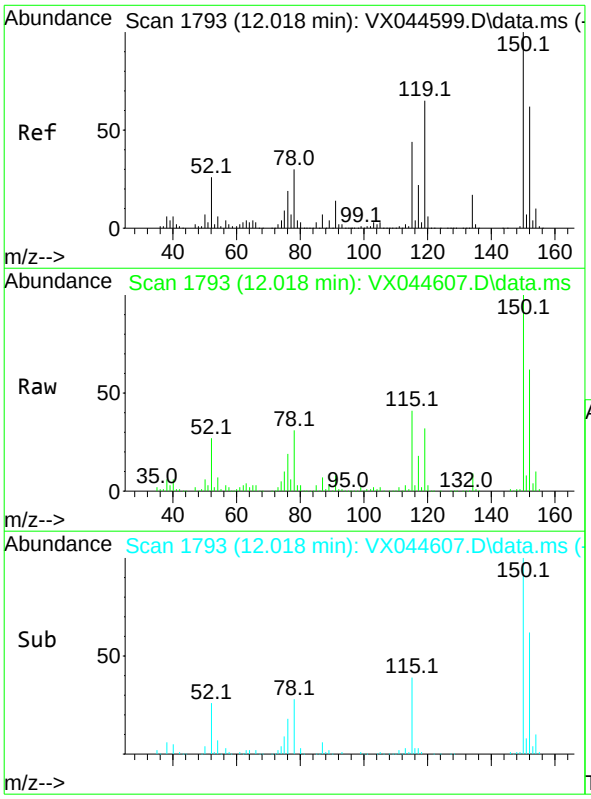
Ion	Ratio	Lower	Upper
173	100		
175	47.0	24.6	73.8
254	0.0	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Manual Integrations
APPROVED

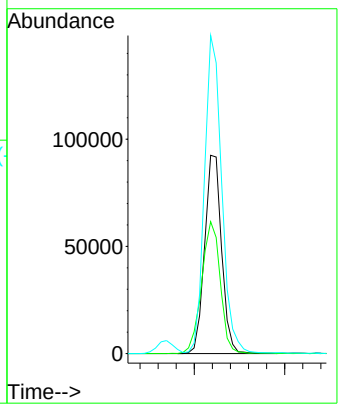
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

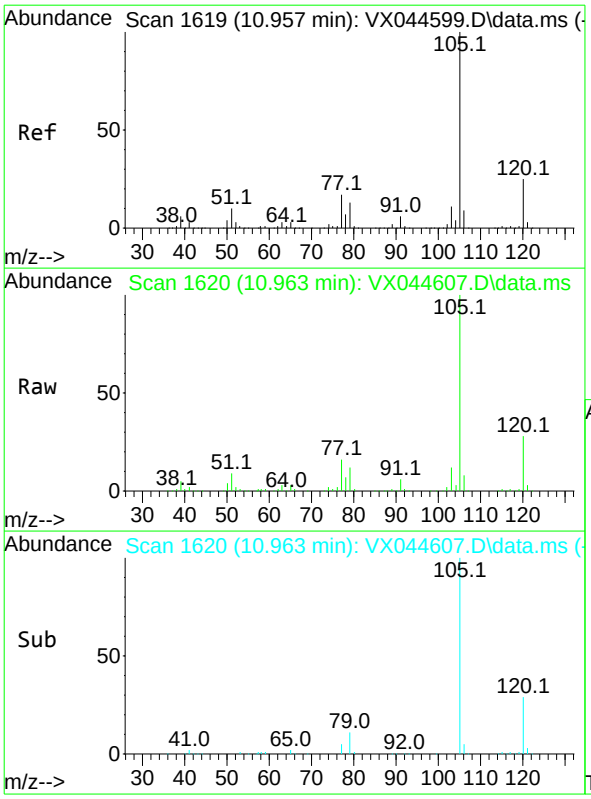


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion:152 Resp: 120544

Ion	Ratio	Lower	Upper
152	100		
115	73.3	44.4	133.1
150	162.5	0.0	355.0

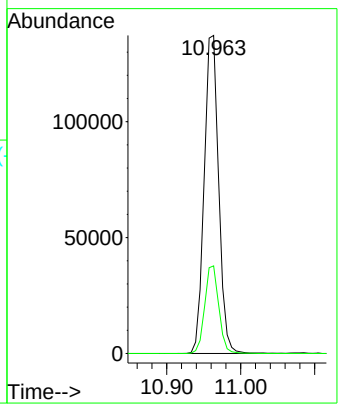




#73
Isopropylbenzene
Concen: 20.891 ug/l
RT: 10.963 min Scan# 16
Delta R.T. 0.006 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion:105 Resp: 186576

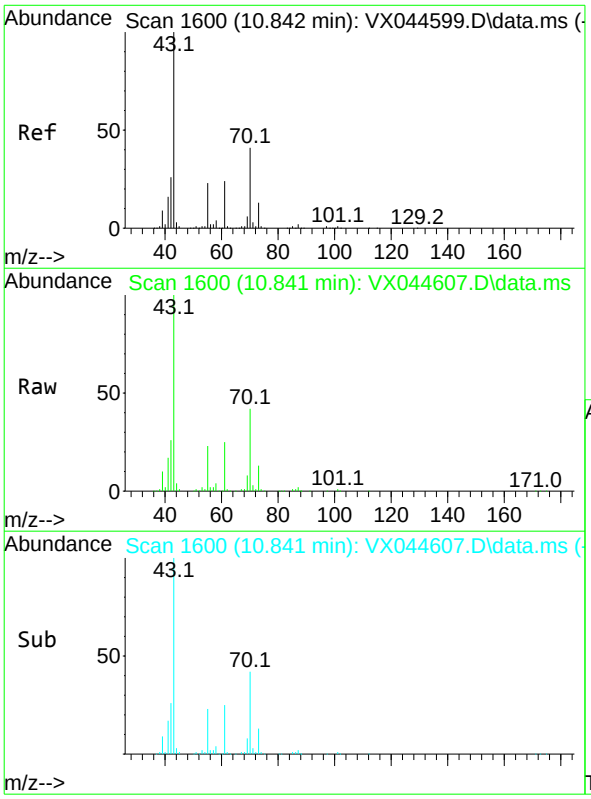
Ion	Ratio	Lower	Upper
105	100		
120	26.8	13.0	38.9



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Manual Integrations APPROVED

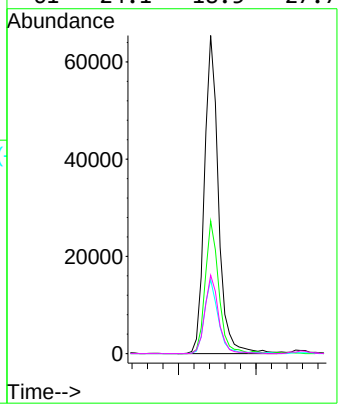
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

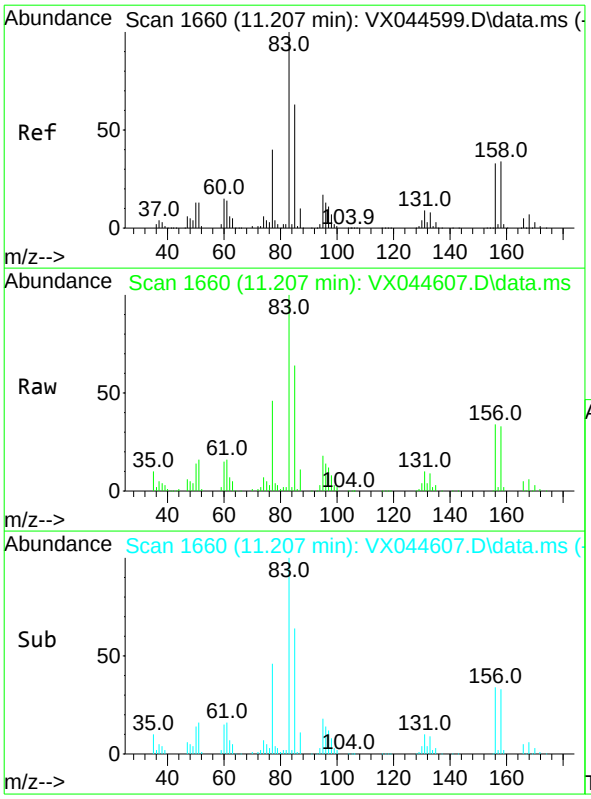


#74
N-amyl acetate
Concen: 22.625 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 43 Resp: 81987

Ion	Ratio	Lower	Upper
43	100		
70	40.1	32.9	49.3
55	22.7	19.0	28.6
61	24.1	18.5	27.7

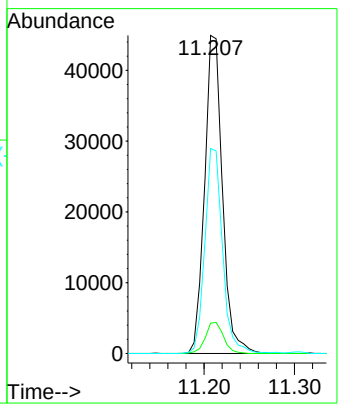




#75
1,1,2,2-Tetrachloroethane
Concen: 21.403 ug/l
RT: 11.207 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 83 Resp: 61611

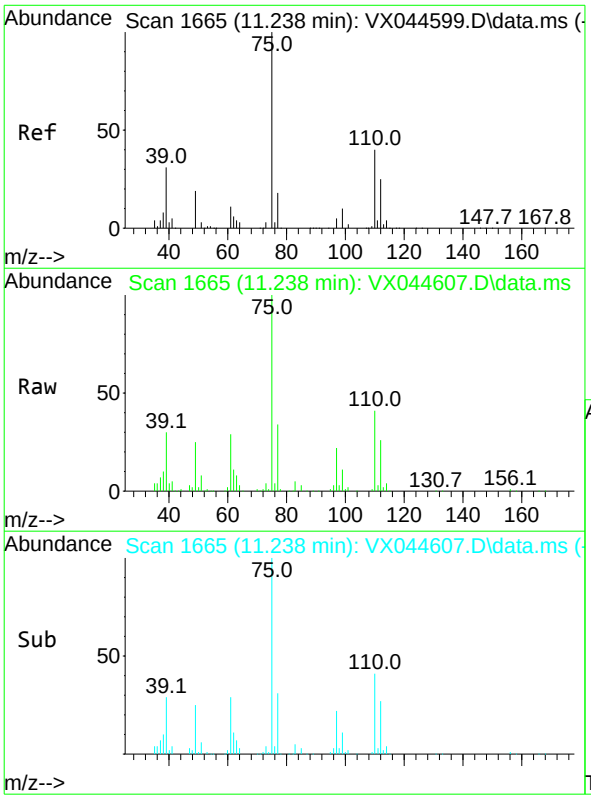
Ion	Ratio	Lower	Upper
83	100		
131	10.0	5.0	15.0
85	64.0	31.9	95.5



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Manual Integrations APPROVED

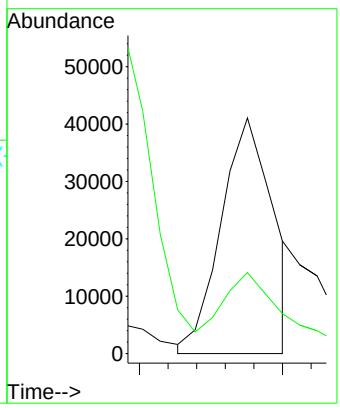
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

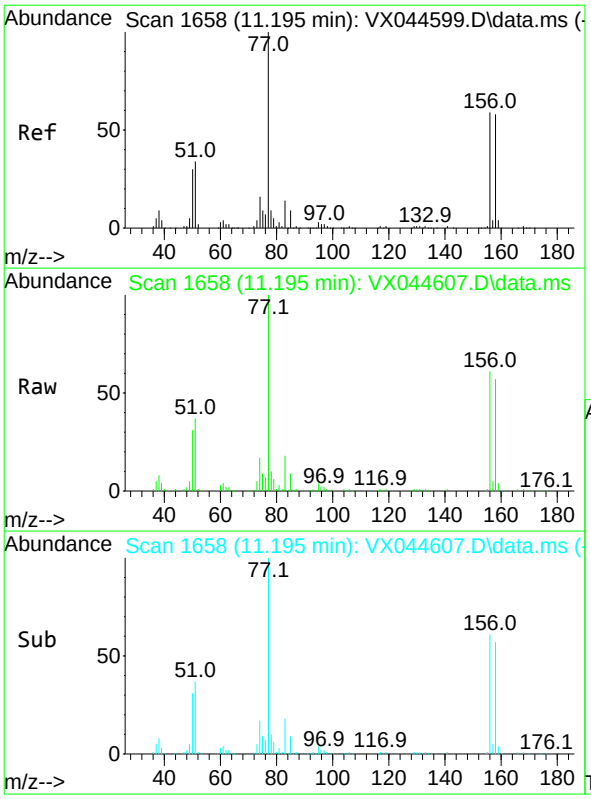


#76
1,2,3-Trichloropropane
Concen: 21.465 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 75 Resp: 51868

Ion	Ratio	Lower	Upper
75	100		
77	43.3	21.1	63.1

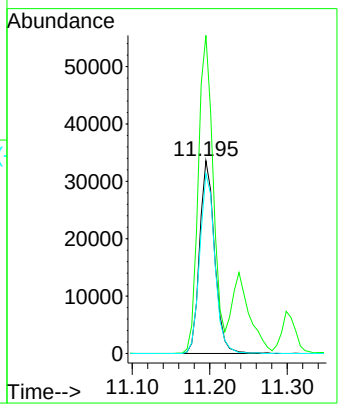




#77
Bromobenzene
Concen: 20.829 ug/l
RT: 11.195 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion:156 Resp: 45188

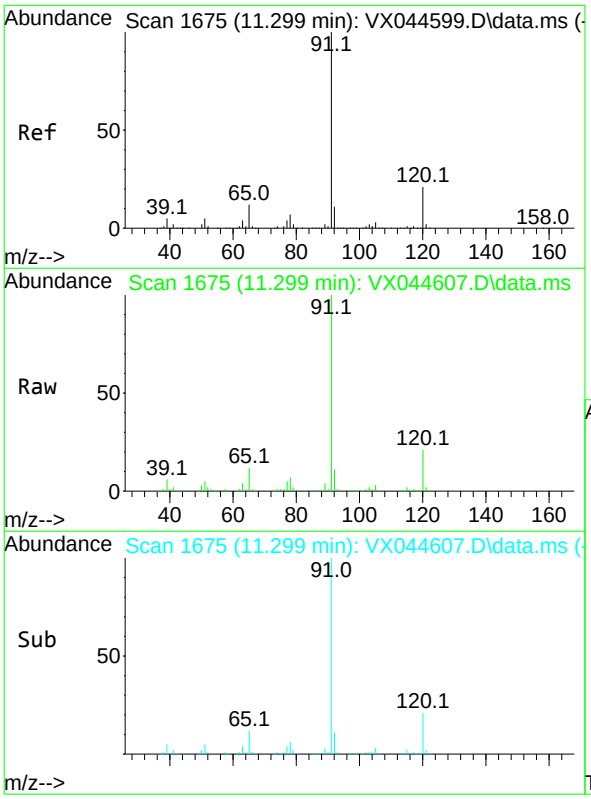
Ion	Ratio	Lower	Upper
156	100		
77	164.9	85.7	257.1
158	94.3	49.9	149.6



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Manual Integrations
APPROVED

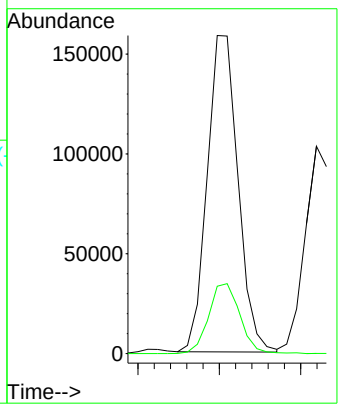
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

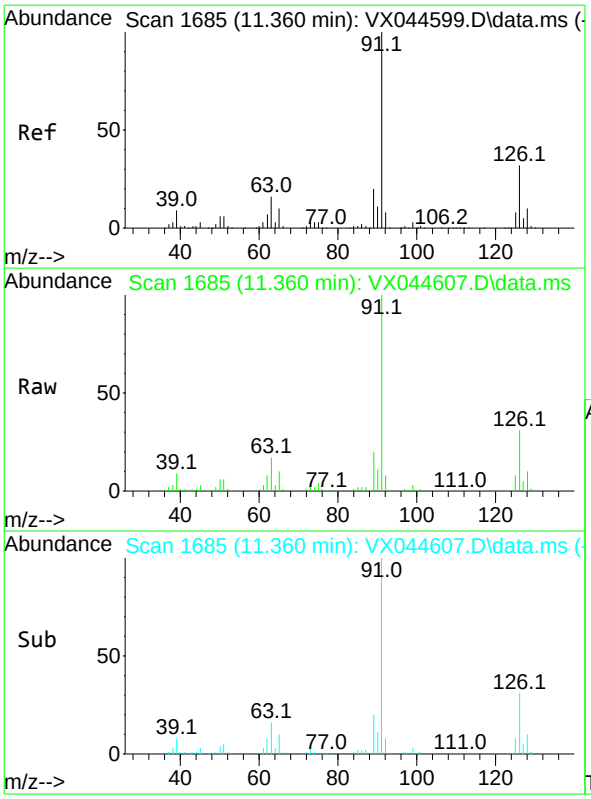


#78
n-propylbenzene
Concen: 20.743 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 91 Resp: 208661

Ion	Ratio	Lower	Upper
91	100		
120	22.4	11.2	33.5

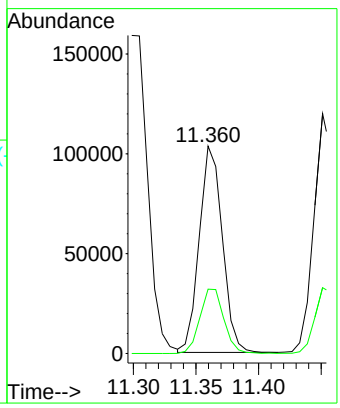




#79
2-Chlorotoluene
Concen: 20.292 ug/l
RT: 11.360 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 91 Resp: 132275

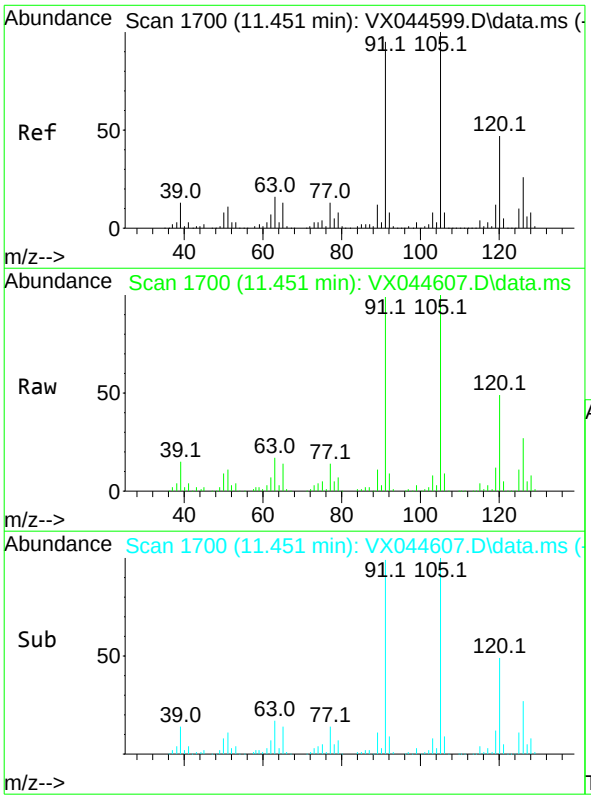
Ion	Ratio	Lower	Upper
91	100		
126	32.5	16.4	49.2



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Manual Integrations
APPROVED

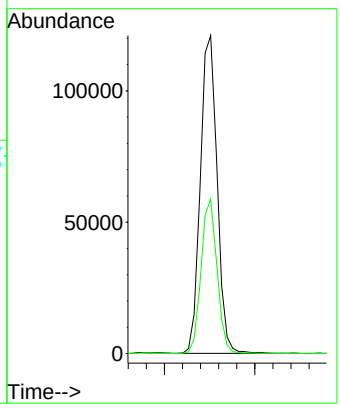
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

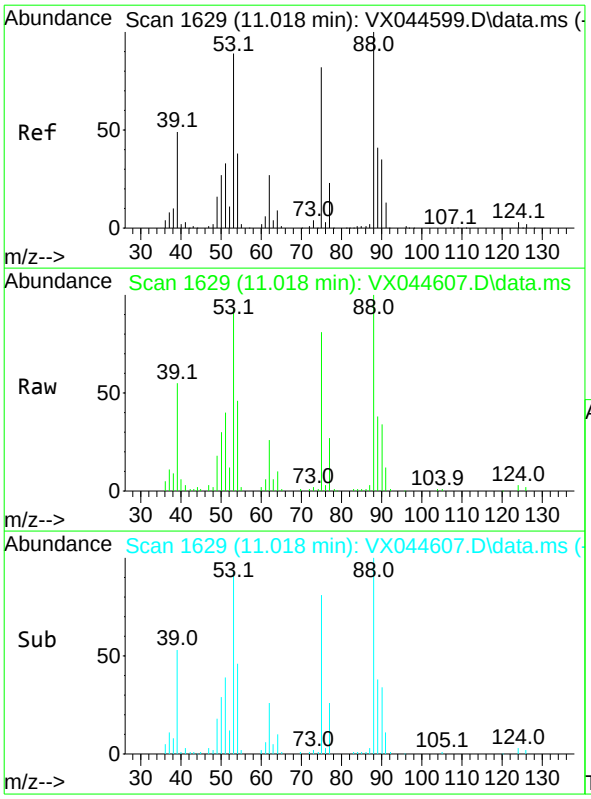


#80
1,3,5-Trimethylbenzene
Concen: 21.003 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion:105 Resp: 155524

Ion	Ratio	Lower	Upper
105	100		
120	46.4	23.5	70.5

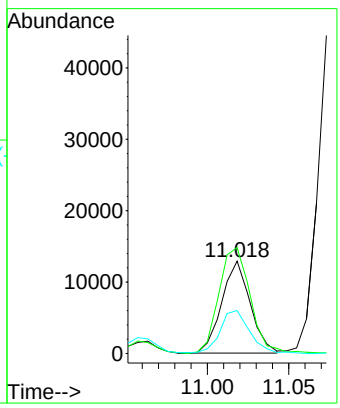




#81
trans-1,4-Dichloro-2-butene
Concen: 19.789 ug/l
RT: 11.018 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 75 Resp: 15709

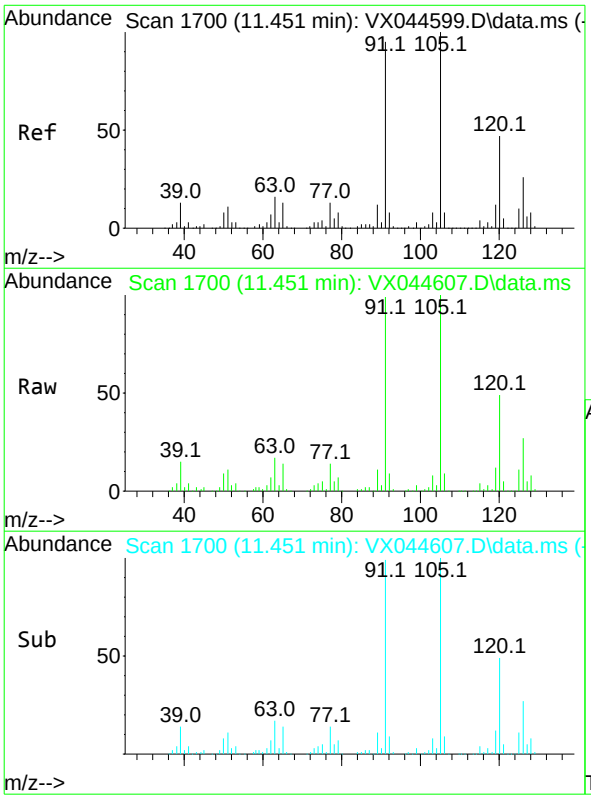
Ion	Ratio	Lower	Upper
75	100		
53	127.1	92.7	139.1
89	48.9	38.3	57.5



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Manual Integrations
APPROVED

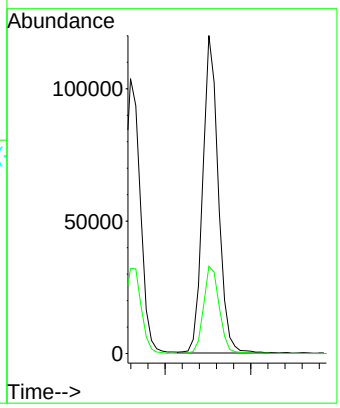
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

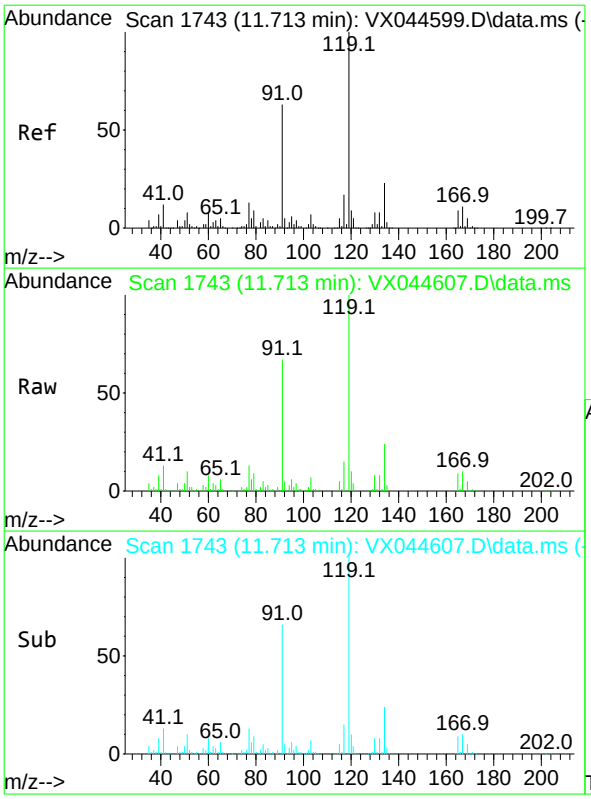


#82
4-Chlorotoluene
Concen: 20.576 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 91 Resp: 150886

Ion	Ratio	Lower	Upper
91	100		
126	28.1	14.0	42.0

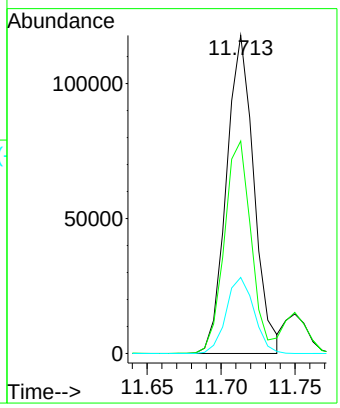




#83
tert-Butylbenzene
Concen: 20.617 ug/l
RT: 11.713 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion:119 Resp: 152010

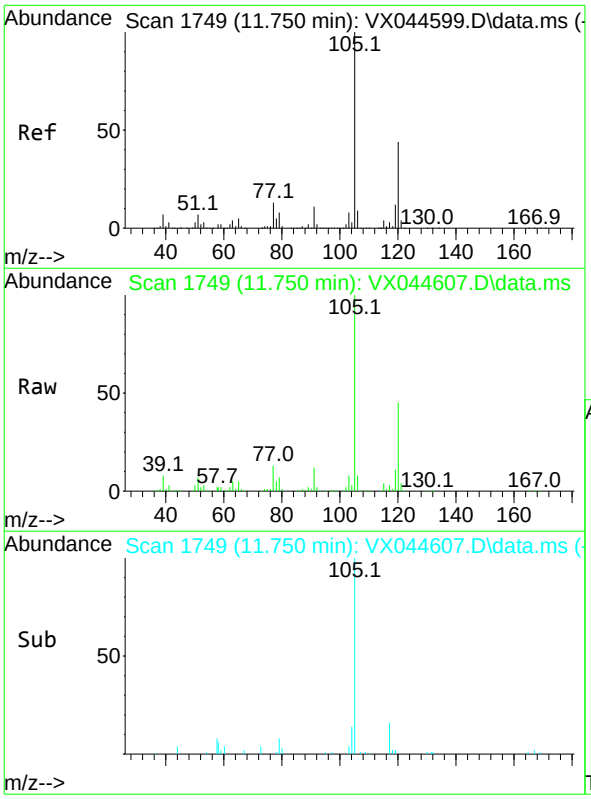
Ion	Ratio	Lower	Upper
119	100		
91	64.9	30.9	92.8
134	24.2	11.7	35.0



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Manual Integrations
APPROVED

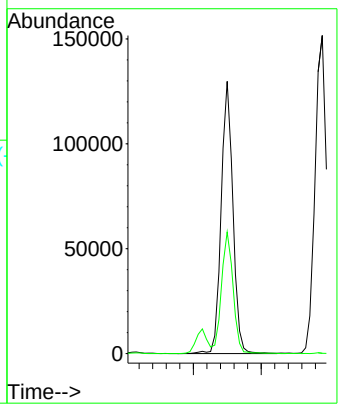
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

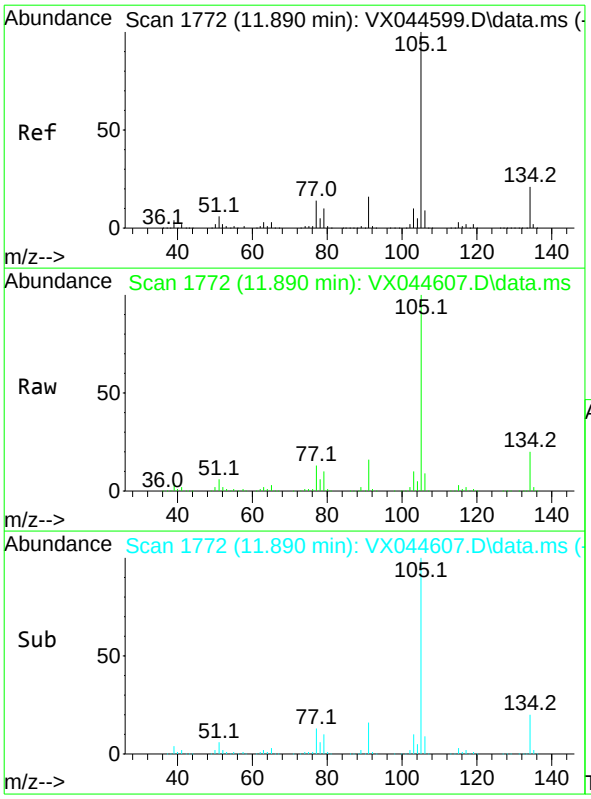


#84
1,2,4-Trimethylbenzene
Concen: 20.973 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion:105 Resp: 156006

Ion	Ratio	Lower	Upper
105	100		
120	44.4	21.9	65.7

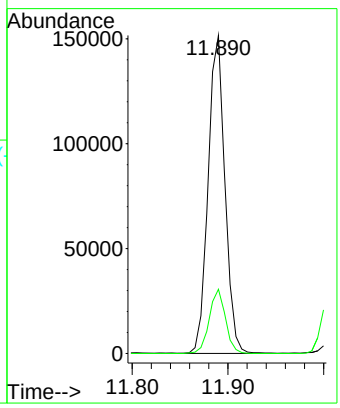




#85
sec-Butylbenzene
Concen: 20.617 ug/l
RT: 11.890 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion:105 Resp: 185130

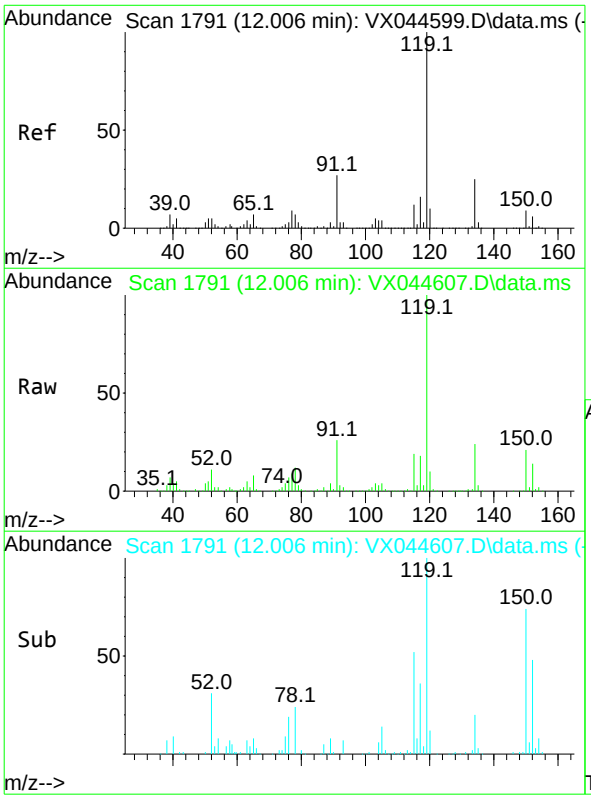
Ion	Ratio	Lower	Upper
105	100		
134	19.4	9.9	29.7



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Manual Integrations
APPROVED

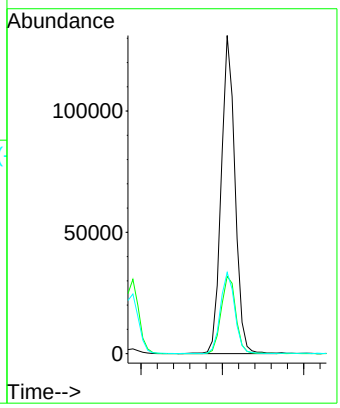
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

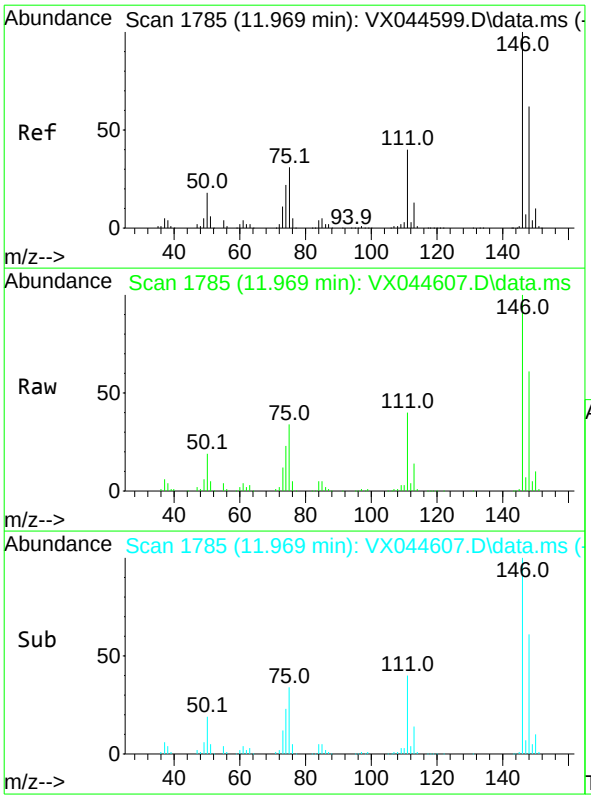


#86
p-Isopropyltoluene
Concen: 20.469 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion:119 Resp: 154223

Ion	Ratio	Lower	Upper
119	100		
134	25.8	12.6	37.8
91	26.4	13.1	39.1

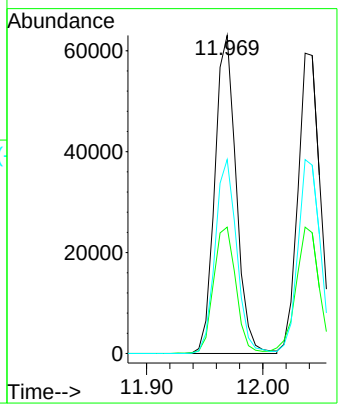




#87
1,3-Dichlorobenzene
Concen: 20.502 ug/l
RT: 11.969 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion:146 Resp: 80463

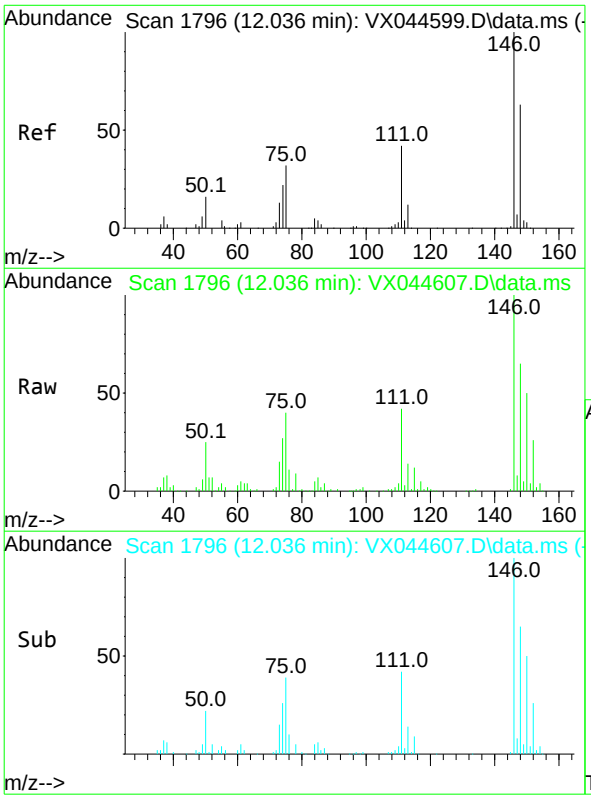
Ion	Ratio	Lower	Upper
146	100		
111	41.5	21.0	63.0
148	61.8	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Manual Integrations APPROVED

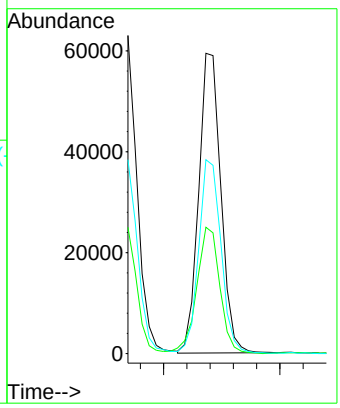
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

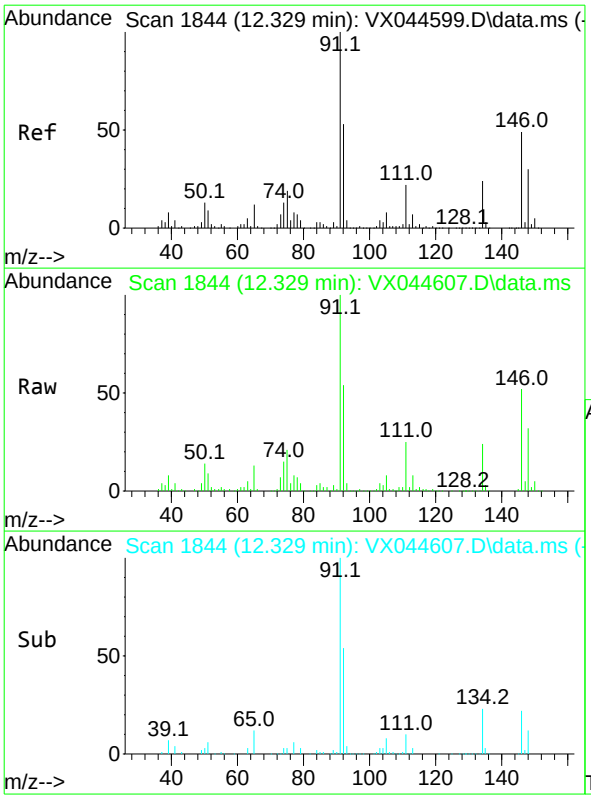


#88
1,4-Dichlorobenzene
Concen: 19.258 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion:146 Resp: 78747

Ion	Ratio	Lower	Upper
146	100		
111	44.2	20.7	62.1
148	64.9	31.8	95.4





#89
n-Butylbenzene
Concen: 20.082 ug/l
RT: 12.329 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

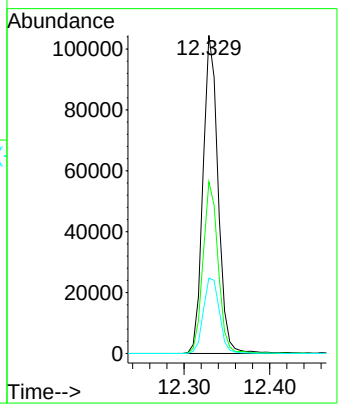
Tgt Ion: 91 Resp: 127763

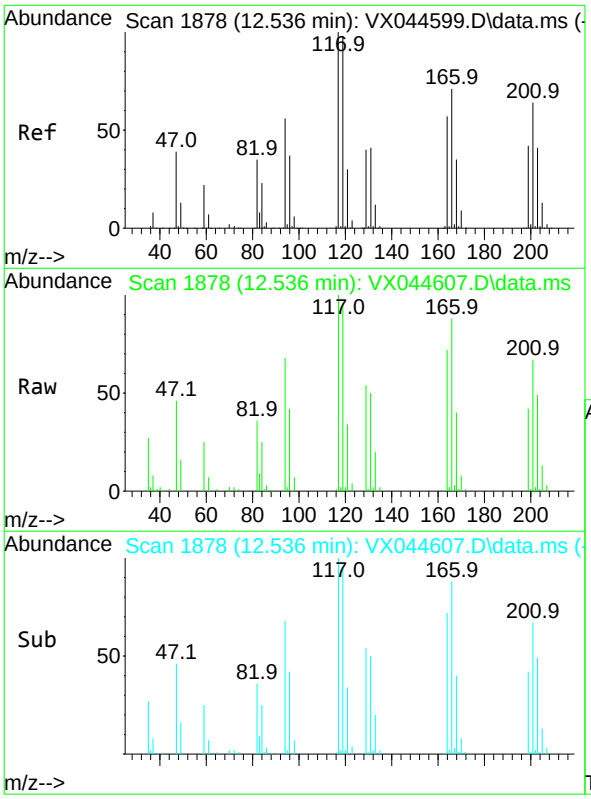
Ion	Ratio	Lower	Upper
91	100		
92	53.9	26.5	79.4
134	25.2	12.4	37.2

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

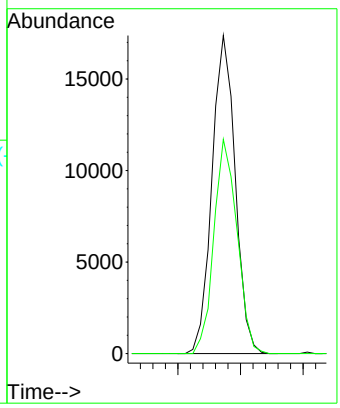


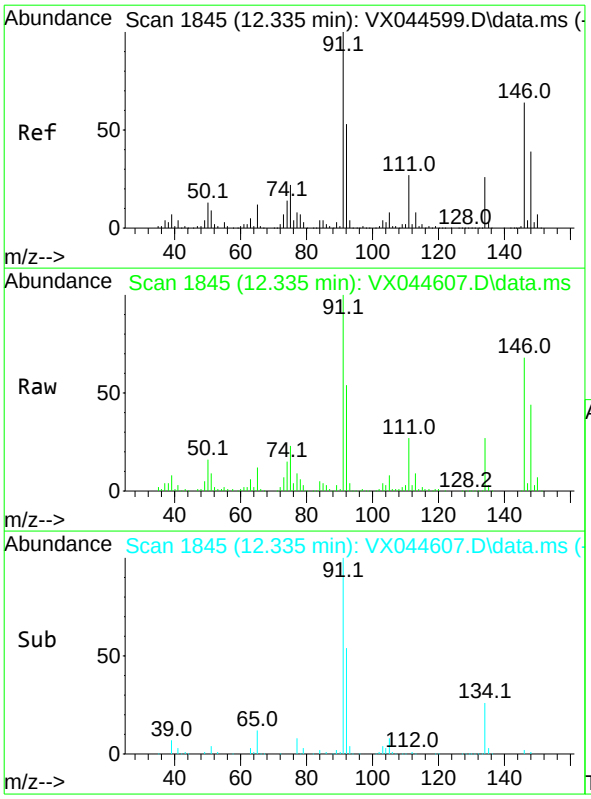


#90
Hexachloroethane
Concen: 18.501 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion:117 Resp: 22393

Ion	Ratio	Lower	Upper
117	100		
201	67.2	33.6	100.6

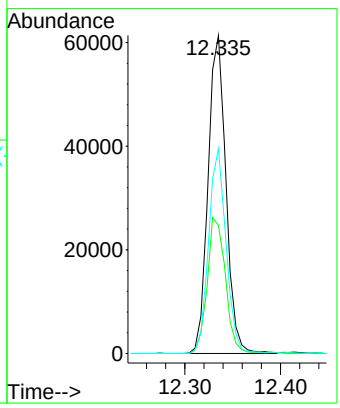




#91
1,2-Dichlorobenzene
Concen: 20.054 ug/l
RT: 12.335 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion:146 Resp: 79533

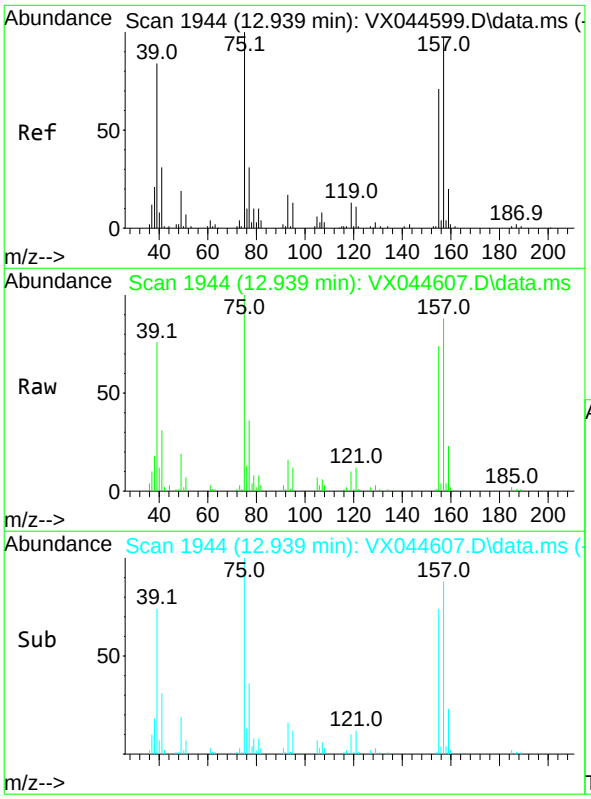
Ion	Ratio	Lower	Upper
146	100		
111	44.0	21.8	65.4
148	63.0	31.1	93.3



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Manual Integrations
APPROVED

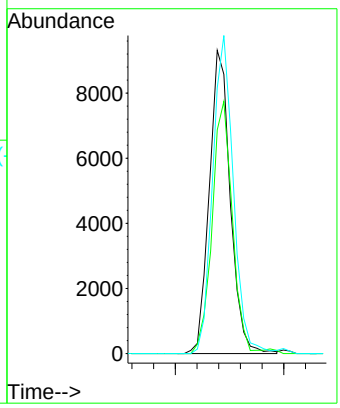
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

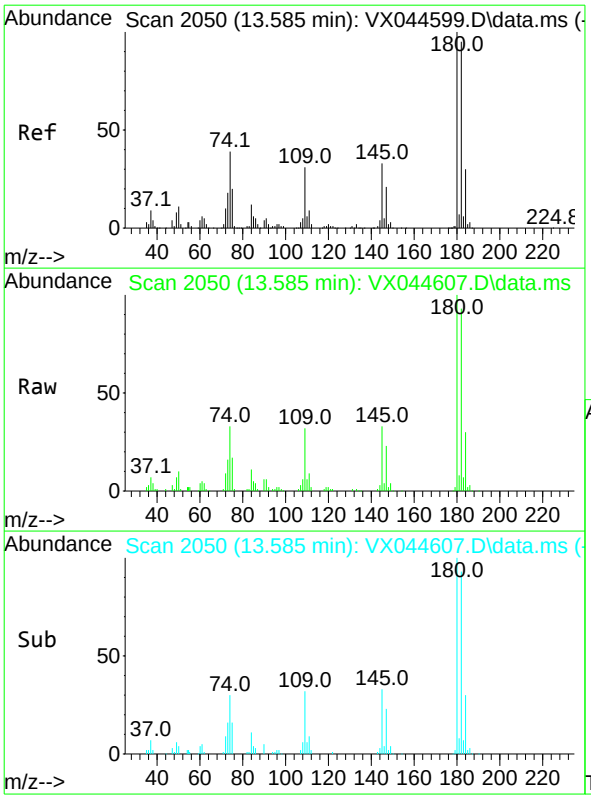


#92
1,2-Dibromo-3-Chloropropane
Concen: 22.920 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 75 Resp: 12508

Ion	Ratio	Lower	Upper
75	100		
155	79.7	37.4	112.1
157	103.1	48.0	144.2

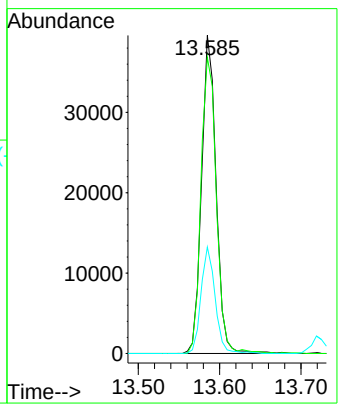




#93
1,2,4-Trichlorobenzene
Concen: 21.056 ug/l
RT: 13.585 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion:180 Resp: 49080

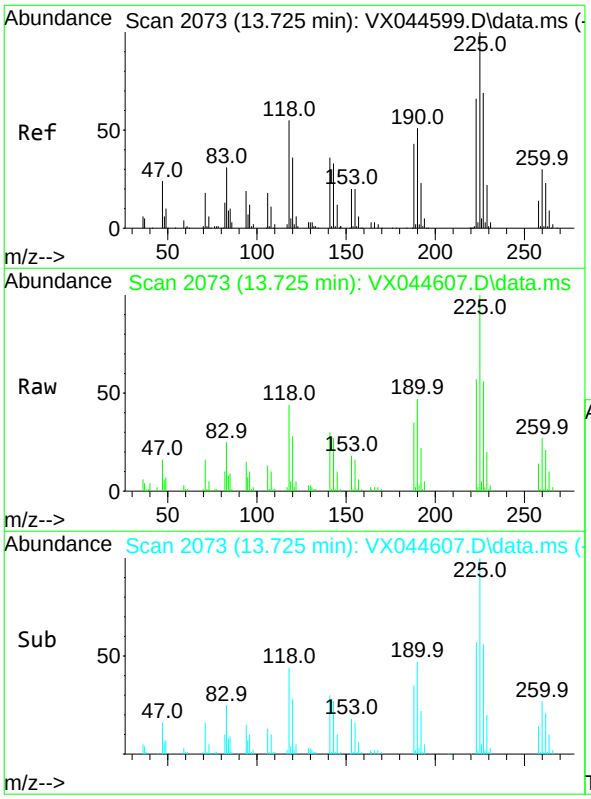
Ion	Ratio	Lower	Upper
180	100		
182	98.2	47.9	143.6
145	32.7	16.3	48.9



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Manual Integrations APPROVED

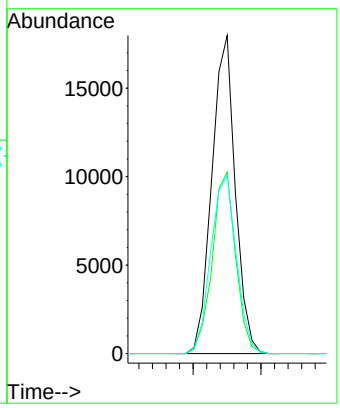
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025

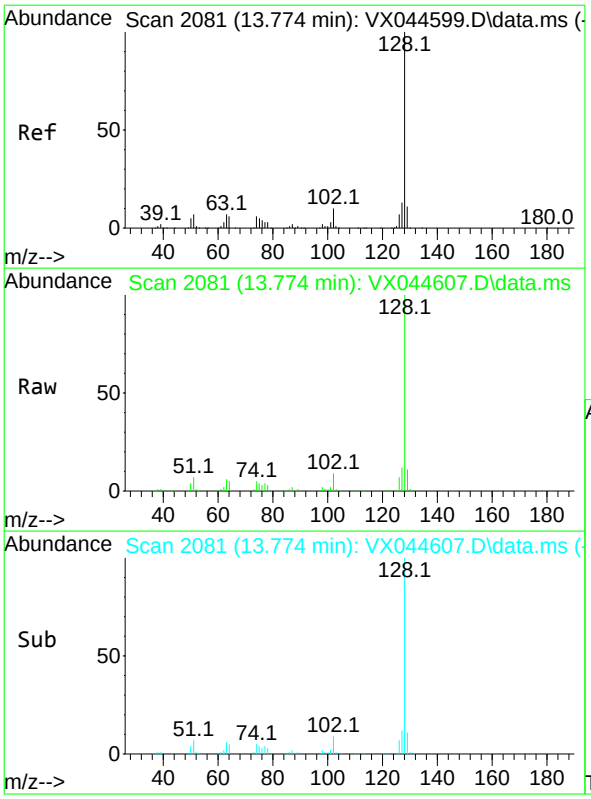


#94
Hexachlorobutadiene
Concen: 22.220 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion:225 Resp: 21566

Ion	Ratio	Lower	Upper
225	100		
223	56.9	31.6	94.8
227	60.9	31.9	95.9

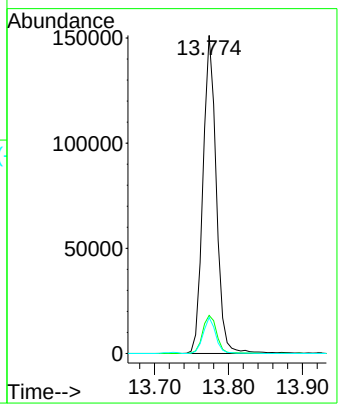




#95
Naphthalene
Concen: 25.147 ug/l
RT: 13.774 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion:128 Resp: 189125

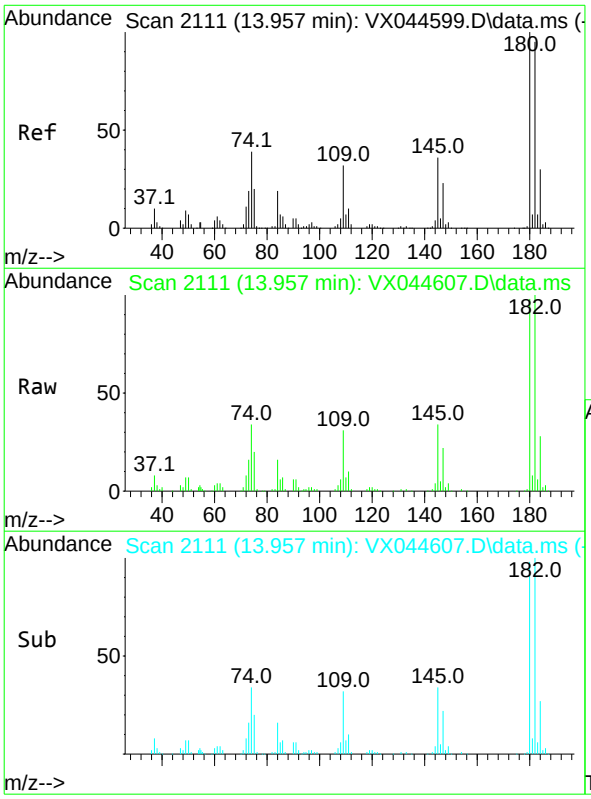
Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.5	15.7
129	10.8	8.6	13.0



Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Manual Integrations
APPROVED

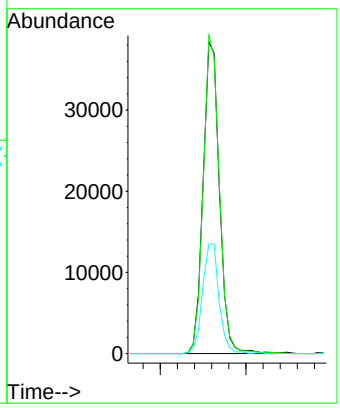
Reviewed By :John Carlone 01/08/2025
Supervised By :Mahesh Dadoda 01/08/2025



#96
1,2,3-Trichlorobenzene
Concen: 21.319 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion:180 Resp: 50797

Ion	Ratio	Lower	Upper
180	100		
182	100.1	47.6	142.9
145	35.6	17.6	52.9



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

Manual Integration Report

Sequence:	VX010725	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VX044596.D	1,1,2-Trichlorotrifluoroethane	JOHN	1/8/2025 9:37:15 AM	MMDadoda	1/8/2025 3:16:52 PM	Peak Integrated by Software
VSTDICC001	VX044596.D	1,2,3-Trichloropropane	JOHN	1/8/2025 9:37:15 AM	MMDadoda	1/8/2025 3:16:52 PM	Peak Integrated by Software
VSTDICC001	VX044596.D	1,4-Dichlorobenzene	JOHN	1/8/2025 9:37:15 AM	MMDadoda	1/8/2025 3:16:52 PM	Peak Integrated by Software
VSTDICC001	VX044596.D	1,4-Dioxane	JOHN	1/8/2025 9:37:15 AM	MMDadoda	1/8/2025 3:16:52 PM	Peak Integrated by Software
VSTDICC001	VX044596.D	Ethyl Acetate	JOHN	1/8/2025 9:37:15 AM	MMDadoda	1/8/2025 3:16:52 PM	Peak Integrated by Software
VSTDICC001	VX044596.D	Isopropyl Acetate	JOHN	1/8/2025 9:37:15 AM	MMDadoda	1/8/2025 3:16:52 PM	Peak Integrated by Software
VSTDICC001	VX044596.D	Methacrylonitrile	JOHN	1/8/2025 9:37:15 AM	MMDadoda	1/8/2025 3:16:52 PM	Peak Integrated by Software
VSTDICC001	VX044596.D	Methyl methacrylate	JOHN	1/8/2025 9:37:15 AM	MMDadoda	1/8/2025 3:16:52 PM	Peak Integrated by Software
VSTDICC001	VX044596.D	Trichloroethene	JOHN	1/8/2025 9:37:15 AM	MMDadoda	1/8/2025 3:16:52 PM	Peak Integrated by Software
VSTDICC005	VX044597.D	1,2,3-Trichloropropane	JOHN	1/8/2025 9:37:19 AM	MMDadoda	1/8/2025 3:16:54 PM	Peak Integrated by Software
VSTDICC020	VX044598.D	1,2,3-Trichloropropane	JOHN	1/8/2025 9:37:24 AM	MMDadoda	1/8/2025 3:16:56 PM	Peak Integrated by Software
VSTDICCC050	VX044599.D	1,2,3-Trichloropropane	JOHN	1/8/2025 9:37:28 AM	MMDadoda	1/8/2025 3:16:58 PM	Peak Integrated by Software
VSTDICC100	VX044600.D	1,2,3-Trichloropropane	JOHN	1/8/2025 9:37:32 AM	MMDadoda	1/8/2025 3:17:01 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	VX010725	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC150	VX044601.D	1,2,3-Trichloropropane	JOHN	1/8/2025 9:37:37 AM	MMDadoda	1/8/2025 3:17:05 PM	Peak Integrated by Software
VSTDICV050	VX044603.D	1,2,3-Trichloropropane	JOHN	1/8/2025 9:37:46 AM	MMDadoda	1/8/2025 3:17:09 PM	Peak Integrated by Software
VX0107WBS02	VX044606.D	1,2,3-Trichloropropane	JOHN	1/8/2025 9:37:55 AM	MMDadoda	1/8/2025 3:17:12 PM	Peak Integrated by Software
VX0107WBSD02	VX044607.D	1,2,3-Trichloropropane	JOHN	1/8/2025 9:37:59 AM	MMDadoda	1/8/2025 3:17:14 PM	Peak Integrated by Software
VX0107WBSD02	VX044607.D	1,4-Dioxane	JOHN	1/8/2025 9:37:59 AM	MMDadoda	1/8/2025 3:17:14 PM	Peak Integrated by Software
VSTDCCC050	VX044613.D	1,2,3-Trichloropropane	JOHN	1/8/2025 9:38:08 AM	MMDadoda	1/8/2025 3:17:16 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 # VX010725

Review By	John Carlone	Review On	1/8/2025 9:39:14 AM		
Supervise By	Mahesh Dadoda	Supervise On	1/8/2025 3:17:27 PM		
SubDirectory	VX010725	HP Acquire Method		HP Processing Method	82X010725W.M

STD. NAME	STD REF.#
Tune/Reschk	VP132436
Initial Calibration Stds	VP132441,VP132442,VP132443,VP132444,VP132445,VP132446
CCC	VP132437
Internal Standard/PEM	
ICV/I.BLK	VP132447
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX044595.D	07 Jan 2025 09:14	JC/MD	Ok
2	VSTDICC001	VX044596.D	07 Jan 2025 10:06	JC/MD	Ok,M
3	VSTDICC005	VX044597.D	07 Jan 2025 10:29	JC/MD	Ok,M
4	VSTDICC020	VX044598.D	07 Jan 2025 10:51	JC/MD	Ok,M
5	VSTDICCC050	VX044599.D	07 Jan 2025 11:14	JC/MD	Ok,M
6	VSTDICC100	VX044600.D	07 Jan 2025 11:37	JC/MD	Ok,M
7	VSTDICC150	VX044601.D	07 Jan 2025 12:00	JC/MD	Ok,M
8	IBLK	VX044602.D	07 Jan 2025 12:23	JC/MD	Ok,M
9	VSTDICV050	VX044603.D	07 Jan 2025 15:34	JC/MD	Ok,M
10	VX0107WBL01	VX044604.D	07 Jan 2025 16:06	JC/MD	Ok
11	VX0107WBS01	VX044605.D	07 Jan 2025 16:29	JC/MD	Not Ok
12	VX0107WBS02	VX044606.D	07 Jan 2025 16:57	JC/MD	Ok,M
13	VX0107WBSD02	VX044607.D	07 Jan 2025 17:19	JC/MD	Ok,M
14	Q1004-04	VX044608.D	07 Jan 2025 17:42	JC/MD	Ok
15	Q1022-01	VX044609.D	07 Jan 2025 18:05	JC/MD	Ok
16	Q1022-03	VX044610.D	07 Jan 2025 18:28	JC/MD	Ok
17	Q1022-04	VX044611.D	07 Jan 2025 18:51	JC/MD	Ok
18	Q1022-02	VX044612.D	07 Jan 2025 19:14	JC/MD	Ok
19	VSTDCCC050	VX044613.D	07 Jan 2025 19:37	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 # VX010725

Review By	John Carlone	Review On	1/8/2025 9:39:14 AM		
Supervise By	Mahesh Dadoda	Supervise On	1/8/2025 3:17:27 PM		
SubDirectory	VX010725	HP Acquire Method		HP Processing Method	82X010725W.M

STD. NAME	STD REF.#
Tune/Reschk	VP132436
Initial Calibration Stds	VP132441,VP132442,VP132443,VP132444,VP132445,VP132446
CCC	VP132437
Internal Standard/PEM	
ICV/I.BLK	VP132447
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX044595.D	07 Jan 2025 09:14		JC/MD	Ok
2	VSTDICC001	VSTDICC001	VX044596.D	07 Jan 2025 10:06		JC/MD	Ok,M
3	VSTDICC005	VSTDICC005	VX044597.D	07 Jan 2025 10:29	Comp.#71 is on Quadratic Regression	JC/MD	Ok,M
4	VSTDICC020	VSTDICC020	VX044598.D	07 Jan 2025 10:51		JC/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VX044599.D	07 Jan 2025 11:14		JC/MD	Ok,M
6	VSTDICC100	VSTDICC100	VX044600.D	07 Jan 2025 11:37		JC/MD	Ok,M
7	VSTDICC150	VSTDICC150	VX044601.D	07 Jan 2025 12:00		JC/MD	Ok,M
8	IBLK	IBLK	VX044602.D	07 Jan 2025 12:23		JC/MD	Ok,M
9	VSTDICV050	ICVVX010725	VX044603.D	07 Jan 2025 15:34		JC/MD	Ok,M
10	VX0107WBL01	VX0107WBL01	VX044604.D	07 Jan 2025 16:06		JC/MD	Ok
11	VX0107WBS01	VX0107WBS01	VX044605.D	07 Jan 2025 16:29	Recovery Fail	JC/MD	Not Ok
12	VX0107WBS02	VX0107WBS02	VX044606.D	07 Jan 2025 16:57		JC/MD	Ok,M
13	VX0107WBSD02	VX0107WBSD02	VX044607.D	07 Jan 2025 17:19		JC/MD	Ok,M
14	Q1004-04	BP-VPB-190A-GW-778	VX044608.D	07 Jan 2025 17:42	vial B pH<2	JC/MD	Ok
15	Q1022-01	BP-VPB-190A-TB-2025	VX044609.D	07 Jan 2025 18:05	vial A pH<2 TB	JC/MD	Ok
16	Q1022-03	BP-VPB-190A-GW-838	VX044610.D	07 Jan 2025 18:28	vial A+B pH<2	JC/MD	Ok
17	Q1022-04	BP-VPB-190A-GW-858	VX044611.D	07 Jan 2025 18:51	vial A pH<2	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 # VX010725

Review By	John Carlone	Review On	1/8/2025 9:39:14 AM		
Supervise By	Mahesh Dadoda	Supervise On	1/8/2025 3:17:27 PM		
SubDirectory	VX010725	HP Acquire Method		HP Processing Method	82X010725W.M

STD. NAME	STD REF.#
Tune/Reschk	VP132436
Initial Calibration Stds	VP132441,VP132442,VP132443,VP132444,VP132445,VP132446
CCC	VP132437
Internal Standard/PEM	
ICV/I.BLK	VP132447
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	Q1022-02	BP-VPB-190A-DUP-20	VX044612.D	07 Jan 2025 19:14	vial A pH<2	JC/MD	Ok
19	VSTDCCC050	VSTDCCC050EC	VX044613.D	07 Jan 2025 19:37		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 : Q1022

Test : VOCMS Group1

Prepbatch ID :

Sequence ID/Qc Batch ID: VX010725,

Standard ID :
VP129195,VP130430,VP130434,VP131746,VP131767,VP131864,VP132005,VP132007,VP132035,VP132037,VP132096,VP132097,VP132101,VP132436,VP132437,VP132441,VP132442,VP132443,VP132444,VP132445,VP132446,VP132447,

Chemical ID :
V12966,V13391,V13445,V13449,V13457,V13460,V13465,V13466,V13582,V13707,V13806,V13820,V13918,V14020,V14021,V14096,V14105,V14106,V14125,V14143,V14145,V14152,V14154,V14173,V14174,V14178,V14192,V14194,V14201,V14289,V14424,V14434,V14437,V14461,V14614,V14630,V14631,V14632,V14633,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
262	8260 Working STD (BCM)-Second source, 100PPM	VP129195	07/22/2024	01/22/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 07/26/2024

FROM 1.00000ml of V12966 + 9.00000ml of V14143 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
617	8260 Surrogate, 400PPM	VP130430	09/20/2024	02/28/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 09/26/2024

FROM 0.40000ml of V13707 + 24.60000ml of V14145 = 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
1738	8260 surrogate 20 ppm	VP130434	09/20/2024	02/28/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 10/02/2024

FROM 0.02000ml of V13707 + 24.99000ml of V14145 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
247	8260 Internal Standard, 250PPM	VP131746	11/22/2024	05/18/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 11/23/2024

FROM 0.50000ml of V14289 + 49.50000ml of V14154 = 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
218	BFB, 25PPM	VP131767	11/22/2024	05/18/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 11/27/2024

FROM 0.50000ml of V13391 + 49.50000ml of V14154 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
259	8260 Calibration Working STD Mix-Second source, 160PPM	VP131864	12/02/2024	01/11/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 12/03/2024

FROM 0.16000ml of V13449 + 0.80000ml of V13820 + 0.80000ml of V14096 + 0.80000ml of V14125 + 0.80000ml of V14178 + 0.80000ml of V14424 + 1.60000ml of V13918 + 4.24000ml of V14461 = Final Quantity: 10.000 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	VP132005	12/09/2024	01/18/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 12/12/2024

FROM 0.40000ml of V13445 + 1.00000ml of V13806 + 1.00000ml of V14020 + 1.00000ml of V14021 + 1.00000ml of V14105 + 1.00000ml of V14106 + 1.00000ml of V14173 + 1.00000ml of V14174 + 1.00000ml of V14194 + 1.00000ml of V14434 + 1.00000ml of V14437 + 1.50000ml of V14192 + 1.50000ml of V14201 + 10.60000ml of V14152 = 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	VP132007	12/09/2024	01/18/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 12/12/2024

FROM 17.50000ml of V14152 + 2.50000ml of VP132005 = 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
1810	8260 Working Std(2-CVE)-800ppm	VP132035	12/10/2024	06/10/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 12/12/2024

FROM 1.00000ml of V14630 + 1.00000ml of V14631 + 1.00000ml of V14632 + 1.00000ml of V14633 + 46.00000ml of V14614 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1812	8260 Working Std(2-CVE)-100ppm	VP132037	12/10/2024	06/10/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 12/12/2024

FROM 0.25000ml of V14633 + 24.75000ml of V14614 = 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
719	8260 Working STD (BCM)-First source, 400PPM	VP132096	12/12/2024	06/10/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 12/19/2024

FROM 1.00000ml of V13465 + 1.00000ml of V13466 + 1.50000ml of V13457 + 1.50000ml of V13460 + 20.00000ml of V14614 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
253	8260 Working STD (BCM)-First source, 20PPM	VP132097	12/12/2024	06/10/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 12/19/2024

FROM 0.50000ml of V13466 + 49.50000ml of V14614 = Final Quantity: 50.000 ml

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
1817	8260 Working Std(2-CVE)-SS, 800ppm	VP132101	12/12/2024	06/10/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 12/19/2024

FROM 0.80000ml of V13582 + 9.20000ml of V14614 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
589	BFB TUNE CHECK	VP132436	01/07/2025	01/08/2025	John Carlone	None	None	Mahesh Dadoda 01/09/2025

FROM 39.98400ml of W3112 + 0.01600ml of VP131767 = 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	VP132437	01/07/2025	01/08/2025	John Carlone	None	None	Mahesh Dadoda 01/09/2025

FROM 39.94450ml of W3112 + 0.00500ml of VP130430 + 0.00500ml of VP132096 + 0.00800ml of VP131746 + 0.01250ml of VP132005 + 0.01250ml of VP132035 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
334	1 PPB ICC, 8260-Water	VP132441	01/07/2025	01/08/2025	John Carlone	None	None	Mahesh Dadoda 01/09/2025

FROM 39.98200ml of W3112 + 0.00200ml of VP130434 + 0.00200ml of VP132007 + 0.00200ml of VP132037 + 0.00200ml of VP132097 + 0.00800ml of VP131746 = 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
335	5 PPB ICC, 8260-Water	VP132442	01/07/2025	01/08/2025	John Carlone	None	None	Mahesh Dadoda 01/09/2025

FROM 39.94200ml of W3112 + 0.00800ml of VP131746 + 0.01000ml of VP130434 + 0.01000ml of VP132007 + 0.01000ml of VP132037 + 0.01000ml of VP132097 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
337	20 PPB ICC, 8260-Water	VP132443	01/07/2025	01/08/2025	John Carlone	None	None	Mahesh Dadoda 01/09/2025

FROM 39.97000ml of W3112 + 0.00200ml of VP130430 + 0.00200ml of VP132096 + 0.00500ml of VP132005 + 0.00500ml of VP132035 + 0.00800ml of VP131746 = 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
380	50 PPB ICC, 8260-Water	VP132444	01/07/2025	01/08/2025	John Carlone	None	None	Mahesh Dadoda 01/09/2025

FROM 39.94450ml of W3112 + 0.00500ml of VP130430 + 0.00500ml of VP132096 + 0.00800ml of VP131746 + 0.01250ml of VP132005 + 0.01250ml of VP132035 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
381	100 PPB ICC, 8260-Water	VP132445	01/07/2025	01/08/2025	John Carlone	None	None	Mahesh Dadoda 01/09/2025

FROM 39.89700ml of W3112 + 0.00800ml of VP131746 + 0.01000ml of VP130430 + 0.01000ml of VP132096 + 0.02500ml of VP132005 + 0.02500ml of VP132035 = 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
382	150 PPB ICC, 8260-Water	VP132446	01/07/2025	01/08/2025	John Carlone	None	None	Mahesh Dadoda 01/09/2025

FROM 39.84950ml of W3112 + 0.00800ml of VP131746 + 0.01500ml of VP130430 + 0.01500ml of VP132096 + 0.03750ml of VP132005 + 0.03750ml of VP132035 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
385	50 PPB ICV, 8260-Water	VP132447	01/07/2025	01/08/2025	John Carlone	None	None	Mahesh Dadoda 01/09/2025

FROM 39.92950ml of W3112 + 0.00500ml of VP130430 + 0.00800ml of VP131746 + 0.01250ml of VP131864 + 0.01250ml of VP132101 + 0.02000ml of VP129195 = 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 #
Absolute Standards, Inc.	70046 / Bromochloromethane Std. sol/methanol 1000ppm	070122	01/22/2025	07/22/2024 / SAM	07/06/2022 / SAM	V12966

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30067 / BFB tuneing solution	A0191805	11/22/2025	11/22/2024 / SAM	01/13/2023 / SAM	V13391

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30470 / VOA Stock Solution, tert-butanol std, 1mL, P&TM	A0181905	02/28/2025	11/26/2024 / SAM	01/23/2023 / SAM	V13445

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30470 / VOA Stock Solution, tert-butanol std, 1mL, P&TM	A0191703	06/02/2025	12/02/2024 / SAM	01/23/2023 / SAM	V13449

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0193071	06/12/2025	12/12/2024 / SAM	01/27/2023 / SAM	V13457

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0193071	06/12/2025	12/12/2024 / SAM	01/27/2023 / SAM	V13460

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	A0193071	06/12/2025	12/12/2024 / SAM	01/27/2023 / SAM	V13465

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0193071	06/12/2025	12/12/2024 / SAM	01/27/2023 / SAM	V13466

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95318 / 2-Chloroethyl Vinyl Ether (Min = 5)	111722	11/17/2025	12/12/2024 / SAM	01/30/2023 / SAM	V13582

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555582 / Custom Mixture, 8260 A/B Surrogate Mix [CS 5179-2]	A0196865	06/10/2025	06/10/2024 / SAM	04/12/2023 / SAM	V13707

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml	A0194279	03/16/2025	09/16/2024 / SAM	05/31/2023 / SAM	V13806

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	A0197644	04/14/2025	10/14/2024 / SAM	05/31/2023 / SAM	V13820

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	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A0193887	04/17/2025	10/17/2024 / SAM	07/24/2023 / SAM	V13918

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)	032922	03/29/2025	11/26/2024 / SAM	11/22/2023 / SAM	V14020

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)	032922	03/29/2025	11/26/2024 / SAM	11/22/2023 / SAM	V14021

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	A0205177	03/04/2025	09/04/2024 / SAM	12/22/2023 / SAM	V14096

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	A0205179	05/26/2025	11/26/2024 / SAM	12/22/2023 / SAM	V14105

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	A0205179	05/26/2025	11/26/2024 / SAM	12/22/2023 / SAM	V14106

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.	95319 / Revised Additions Mix (Min = 5)	011624	04/17/2025	10/17/2024 / SAM	01/17/2024 / SAM	V14125

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	01/22/2025	07/22/2024 / SAM	02/06/2024 / SAM	V14143

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	02/28/2025	08/29/2024 / SAM	02/06/2024 / SAM	V14145

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	04/14/2025	10/14/2024 / SAM	02/06/2024 / SAM	V14152

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	05/18/2025	11/18/2024 / pedro	02/06/2024 / SAM	V14154

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	021624	05/26/2025	11/26/2024 / SAM	02/20/2024 / SAM	V14173

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	05/26/2025	11/26/2024 / SAM	02/20/2024 / SAM	V14174

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	021524	04/17/2025	10/17/2024 / SAM	02/20/2024 / SAM	V14178

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	05/26/2025	11/26/2024 / SAM	02/28/2024 / SAM	V14192

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	05/26/2025	11/26/2024 / SAM	02/28/2024 / SAM	V14194

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	05/26/2025	11/26/2024 / SAM	02/28/2024 / SAM	V14201

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555581 / Custom Standard, 8260 Internal Std [CS 5179-1]	A0210184	11/22/2025	11/22/2024 / SAM	04/15/2024 / SAM	V14289

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	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0205013	06/02/2025	12/02/2024 / SAM	08/15/2024 / SAM	V14424

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0209618	05/26/2025	11/26/2024 / SAM	08/15/2024 / SAM	V14434

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0209618	05/26/2025	11/26/2024 / SAM	08/15/2024 / SAM	V14437

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	05/26/2025	11/26/2024 / pedro	08/16/2024 / SAM	V14461

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	06/10/2025	12/10/2024 / SAM	11/26/2024 / SAM	V14614

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14630

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	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14631

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14632

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14633

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
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

12 Baxter

avantor™ | J.T.Baker®

Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.2
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

James Ethier
Jamie Ethier
Vice President Global Quality

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

12

ANAB ISO 17034 Accredit
AR-1539 Certificate Number
https://Absolutestandards.cc

CERTIFIED WEIGHT REPORT

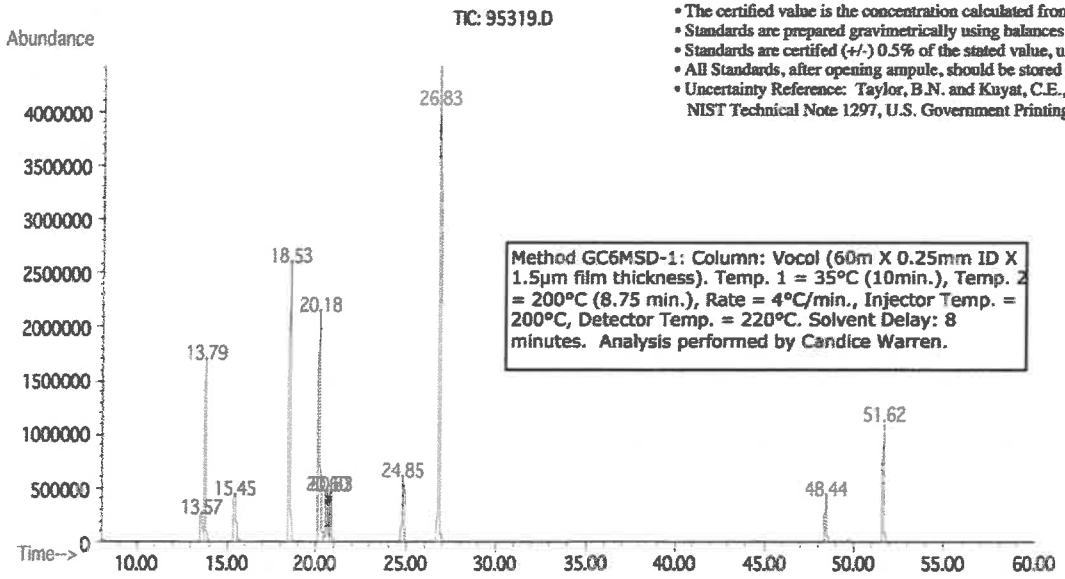
Part Number: 95319
Lot Number: 011624
Description: Revised Additions Mix
11 components
Expiration Date: 011627
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): Varied
NIST Test ID#: 6UTB

Solvent(s): Methanol **Lot#** EH471-US

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Flask Uncertainty

Formulated By:	Prashant Chauhan	011624 DATE
Reviewed By:	Pedro L. Rentas	011624 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.	Acrylonitrile	7	4718CK	10000	99	0.2	1.01035	1.01080	10004.4	40.6	107-13-1	N/A	ori-rat 78 mg/kg
2.	1-Chlorobutane	1072	MKCM5711	2000	99.99	0.2	0.20007	0.20035	2002.8	8.1	109-69-3	N/A	ori-rat 2670mg/kg
3.	Cyclohexane	1023	28930	2000	99	0.2	0.20207	0.20222	2001.5	8.2	110-82-7	300 ppm (1050mg/m3/8H)	ori-rat 12705mg/kg
4.	Di-isopropyl ether (DIPE)	987	00412MX	2000	99	0.2	0.20207	0.20227	2002.0	8.2	108-20-3	500 ppm (2100mg/m3/8H)	ori-rat 8470mg/kg
5.	1,4-Dioxane	373	03853KE	40000	99	0.2	4.04142	4.04213	40007.0	162.5	123-91-1	25 ppm (90mg/m3/8H)(skin)	ori-mus 5700mg/kg
6.	Hexachloroethane	199	12604HBV	2000	99	0.2	0.20207	0.20221	2001.4	8.2	67-72-1	1 ppm (10mg/m3/8H)(skin)	ori-gpg 4970mg/kg
7.	Methylcyclohexane	1627	SHBG0199V	2000	99	0.2	0.20207	0.20230	2002.3	8.2	108-87-2	N/A	ori-mus 2250mg/kg
8.	Methyl tert-butyl ether (MTBE)	209	21880	2000	99	0.2	0.20207	0.20227	2002.0	8.2	1634-04-4	N/A	ori-rat 4g/kg
9.	Propionitrile	349	1395468	20000	99	0.2	2.02071	2.02150	20007.8	81.3	107-12-0	N/A	ori-rat 39mg/kg
10.	Tetrahydrofuran	380	SHBH8330	10000	99.9	0.2	1.00125	1.00200	10007.5	40.3	109-99-9	20 ppm (590mg/m3/8H)	ori-rat 1650mg/kg
11.	1,2,3,4-Tetramethylbenzene	491	AP01	2000	93	0.2	0.21511	0.21522	2001.0	8.7	488-23-3	N/A	ori-rat 6408mg/kg



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are 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).

Method GC6MSD-1: Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Temp. 1 = 35°C (10min.), Temp. 2 = 200°C (8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Solvent Delay: 8 minutes. Analysis performed by Candice Warren.

Name	MSD RT (min.)
Methyl tert-butyl ether (MTBE)	13.56
Acrylonitrile	13.79
Di-isopropyl ether	15.44
Propionitrile	18.53
Tetrahydrofuran	20.17
Cyclohexane	20.58
1-Chlorobutane	20.83
Methylcyclohexane	24.84
1,4-Dioxane	26.84
Hexachloroethane	48.44
1,2,3,4-Tetramethylbenzene	51.62

CERTIFIED WEIGHT REPORT

Part Number: 95317
Lot Number: 021524
Description: Universal VOA Megamix
69 components
Expiration Date: 021527
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 8UTB

Solvent(s): Methanol Lot# EG359-USQ12

Formulated By: Mario Luis 021524 DATE

Reviewed By: Pedro L. Rentas 021524 DATE

5E-05 Balance Uncertainty

Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Flask Uncertainty

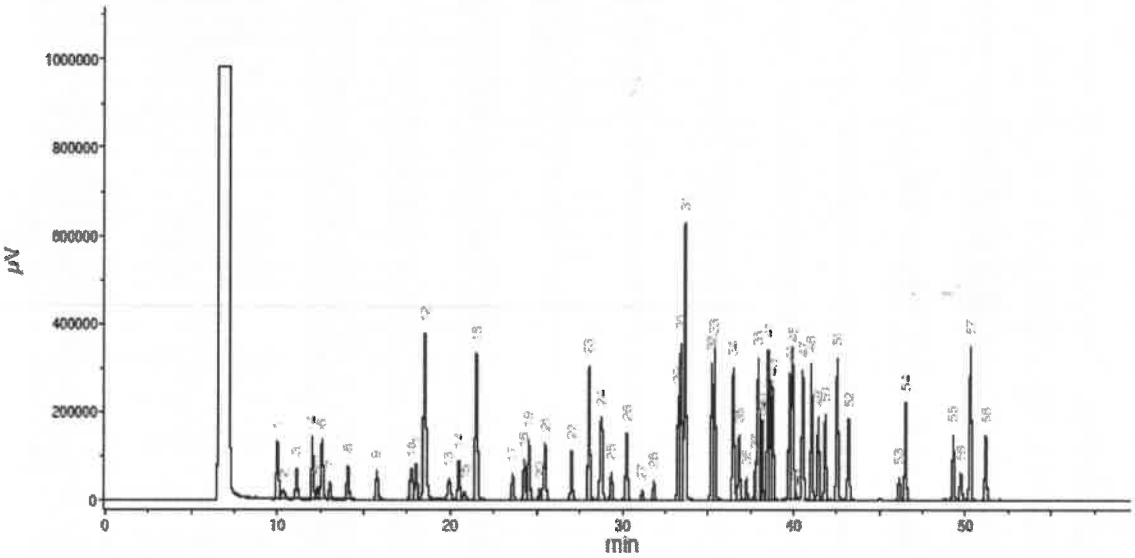
	Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(ug/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expended Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1.	Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20022	2001.5	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	0.20222	2001.5	8.2	107-05-1	1 ppm (3mg/m3/8H)	orl-rat 700mg/kg
3.	Carbon disulphide	(0060)	MKCR8561	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	8.1	75-15-0	4 ppm (12mg/m3) (skin)	orl-rat 1200mg/kg
4.	cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21058	0.21060	2000.2	8.5	1476-11-5	N/A	N/A
5.	trans-1,4-Dichloro-2-butene	(0486)	MKBP6041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20734	2000.3	8.4	110-57-6	N/A	N/A
6.	Diethyl ether	(0153)	IK18CAS000(	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20042	2001.7	8.1	60-29-7	N/A	N/A
7.	Ethyl methacrylate	(0381)	06126PX	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20231	2002.4	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	0.20118	2001.2	8.1	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	0.20209	2000.2	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	0.20042	2001.7	8.1	96-33-3	10 ppm(35mg/m3/8H)(skin)	orl-rat 277mg/kg
12.	Methyl methacrylate	(0404)	MKBW5137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20030	2000.5	8.1	80-62-6	100 ppm (410mg/m3/8H)	orl-rat 7872mg/kg
13.	Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	98-95-3	1 ppm (5mg/m3/8H)(skin)	orl-rat 780mg/kg
14.	2-Nitropropane	(0461)	14002JX	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20570	2001.0	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	0.20415	2000.2	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	0.20210	2000.3	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	20.6	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 149.6mg/kg
45.	Benzene	35162	050823	0.05	5.00	40005.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	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	40005.6	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 1260mg/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	1999.6	22.9	98-06-6	N/A	N/A
59.	sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	22.9	135-98-8	N/A	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 6040mg/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	40000.6	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 References: 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 17, "P95317 L021524 [2000µg/mL in MeOH]"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 10:04:27 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments
GC5-M1 Analysis by Candice Warren
Column ID SPB-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=6.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3



Peak #	Name	FID RT (min.)
1	Ether	9.97
2	1,1,2-Trichloro-1,2,2-trifluoroethane	10.33
3	1,1-Dichloroethene	11.10
4	Acetonitrile	12.00
5	Iodomethane	12.31
6	Allyl chloride	12.56
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethene	14.07
9	1,1-Dichloroethane	15.74
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	19.91
14	1,1-Dichloropropene	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.48
17	Trichloroethene	23.58
18	1,2-Dichloropropane	24.26
19	Methyl methacrylate	24.52
20	Bromodichloromethane	25.13
21	Dibromomethane/2-Nitropropane	25.46
22	cis-1,3-Dichloropropene	27.02
23	Toluene	28.05
24	Ethyl methacrylate/trans-1,3-Dichloropropene	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropane	30.24
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	33.66
32	o-Xylene	33.22
33	Styrene	35.39
34	Isopropylbenzene/Bromoform	36.48
35	cis-1,4-Dichloro-2-butene	36.80
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropane	37.77
38	n-Propylbenzene	37.92
39	trans-1,4-Dichloro-2-butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.50
42	2-Chlorotoluene	38.62
43	4-Chlorotoluene	38.77
44	tert-Butylbenzene	39.76
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropyltoluene	41.02
49	1,3-Dichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.83
51	n-Butylbenzene	42.52
52	1,2-Dichlorobenzene	43.10
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.48
55	1,2,4-Trichlorobenzene	48.26
56	Hexachlorobutadiene	49.72
57	Naphthalene	50.26
58	1,2,3-Trichlorobenzene	51.16

CERTIFIED WEIGHT REPORT

Part Number: 95317
Lot Number: 021624
Description: Universal VOA Megamix
69 components
Expiration Date: 021627
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 6UTB

Solvent(s): Methanol **Lot#** 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

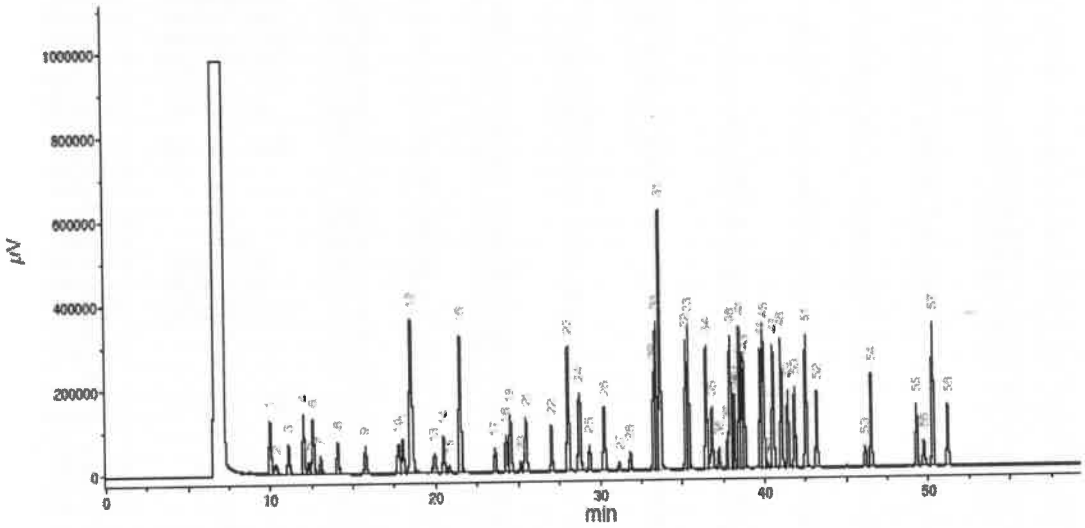
Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(µg/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached 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)	MKCR8561	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20023	2001.6	8.1	75-15-0	4 ppm (12mg/m3) (skin)	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	(0486)	MKBP6041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20748	2001.7	8.4	110-57-6	N/A	N/A
6. Diethyl ether	(0153)	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	(0361)	06126PX	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)	MKBW5137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20041	2001.6	8.1	80-62-6	100 ppm (410mg/m3/8H)	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	20.6	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	40017.8	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-02-6	N/A	N/A
39. Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	29.7	87-68-3	0.02 ppm (0.24mg/m3/8H)	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 (46mg/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 149.6mg/kg
45. Benzene	35162	050823	0.05	5.00	40005.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	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	1999.6	22.9	98-06-6	N/A	N/A
59. sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	22.9	135-98-8	N/A	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	40003.6	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 6040mg/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	40000.6	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 sample, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty References: 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-1,2,2-trifluoroethane	10.33
3	1,1-Dichloroethene	11.10
4	Acetonitrile	12.00
5	Iodomethane	12.31
6	Allyl chloride	12.56
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethene	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.74
11	cis-1,2-Dichloroethene	18.00
12	Methacrylonitrile/Methyl acrylate/Chloroform	18.46
13	Isobutanol/1,1,1-Trichloroethane	19.91
14	1,1-Dichloropropene	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.49
17	Trichloroethene	23.58
18	1,2-Dichloropropane	24.28
19	Methyl methacrylate	24.52
20	Bromodichloromethane	25.13
21	Dibromomethane/2-Nitropropane	25.46
22	cis-1,3-Dichloropropene	27.02
23	Toluene	28.05
24	Ethyl methacrylate/trans-1,3-Dichloropropene	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropane	30.24
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	33.86
32	o-Xylene	35.22
33	Styrene	35.38
34	Isopropylbenzene/Bromoform	36.18
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	37.93
39	trans-1,4-Dichloro-2-Butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.80
42	2-Chlorotoluene	38.82
43	4-Chlorotoluene	38.77
44	tert-Butylbenzene	39.76
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	41.83
51	n-Butylbenzene	42.53
52	1,2-Dichlorobenzene	43.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.48
55	1,2,4-Trichlorobenzene	49.26
56	Hexachlorobutadiene	49.72
57	Naphthalene	50.26
58	1,2,3-Trichlorobenzene	51.16

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	**1-352-323-3500**
		Date Prepared/Revised	January 1, 2023

Section II - Hazards Identification

GHS Classification In accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face 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.

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): Methanol **Lot#** 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

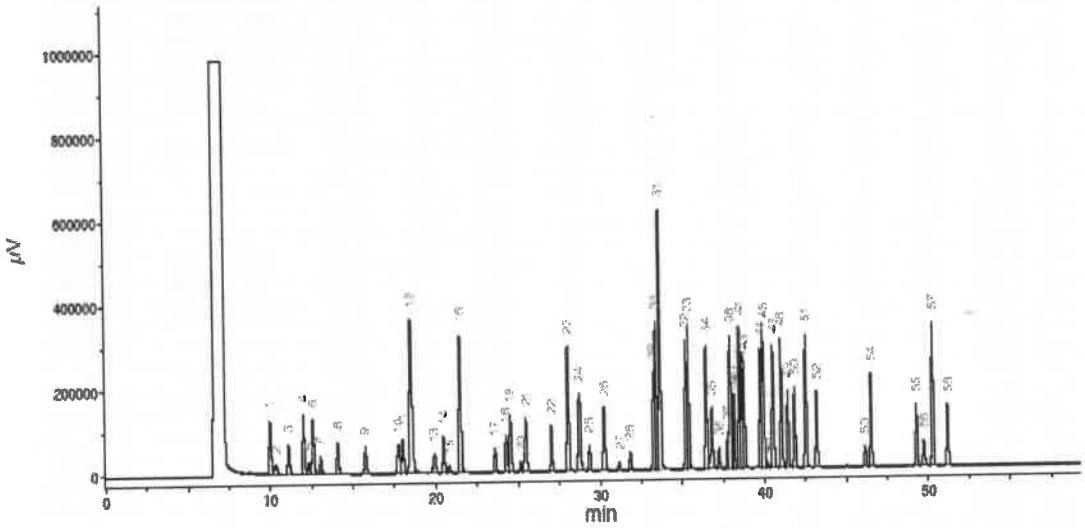
	Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(µg/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached 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)	MKCR8561	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20023	2001.6	8.1	75-15-0	4 ppm (12mg/m3) (skin)	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	(0486)	MKBP6041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20748	2001.7	8.4	110-57-6	N/A	N/A
6.	Diethyl ether	(0153)	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)	06126PX	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)	MKBW5137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20041	2001.6	8.1	80-62-6	100 ppm (410mg/m3/8H)	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	20.6	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	40010.6	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10061-01-5	N/A	N/A
38.	trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.8	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-02-6	N/A	N/A
39.	Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	29.7	87-68-3	0.02 ppm (0.24mg/m3/8H)	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 (46mg/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 149.6mg/kg
45.	Benzene	35162	050823	0.05	5.00	40005.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	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	1999.6	22.9	98-06-6	N/A	N/A
59.	sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	22.9	135-98-8	N/A	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 6040mg/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	40000.6	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 sample, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty References: 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-1,2,2-trifluoroethane	10.33
3	1,1-Dichloroethene	11.10
4	Acetonitrile	12.00
5	Iodomethane	12.31
6	Allyl chloride	12.56
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethene	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.74
11	cis-1,2-Dichloroethene	18.00
12	Methacrylonitrile/Methyl acrylate/Chloroform	18.46
13	Isobutanol/1,1,1-Trichloroethane	19.91
14	1,1-Dichloropropene	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.49
17	Trichloroethene	23.58
18	1,2-Dichloropropane	24.28
19	Methyl methacrylate	24.52
20	Bromodichloromethane	25.13
21	Dibromomethane/2-Nitropropane	25.46
22	cis-1,3-Dichloropropene	27.02
23	Toluene	28.05
24	Ethyl methacrylate/trans-1,3-Dichloropropene	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropane	30.24
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	33.86
32	o-Xylene	35.22
33	Styrene	35.38
34	Isopropylbenzene/Bromoform	36.18
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	37.93
39	trans-1,4-Dichloro-2-Butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.80
42	2-Chlorotoluene	38.82
43	4-Chlorotoluene	38.77
44	tert-Butylbenzene	39.76
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	41.83
51	n-Butylbenzene	42.53
52	1,2-Dichlorobenzene	43.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.48
55	1,2,4-Trichlorobenzene	49.26
56	Hexachlorobutadiene	49.72
57	Naphthalene	50.26
58	1,2,3-Trichlorobenzene	51.16

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	**1-352-323-3500**
		Date Prepared/Revised	January 1, 2023

Section II - Hazards Identification

GHS Classification In accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face 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

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

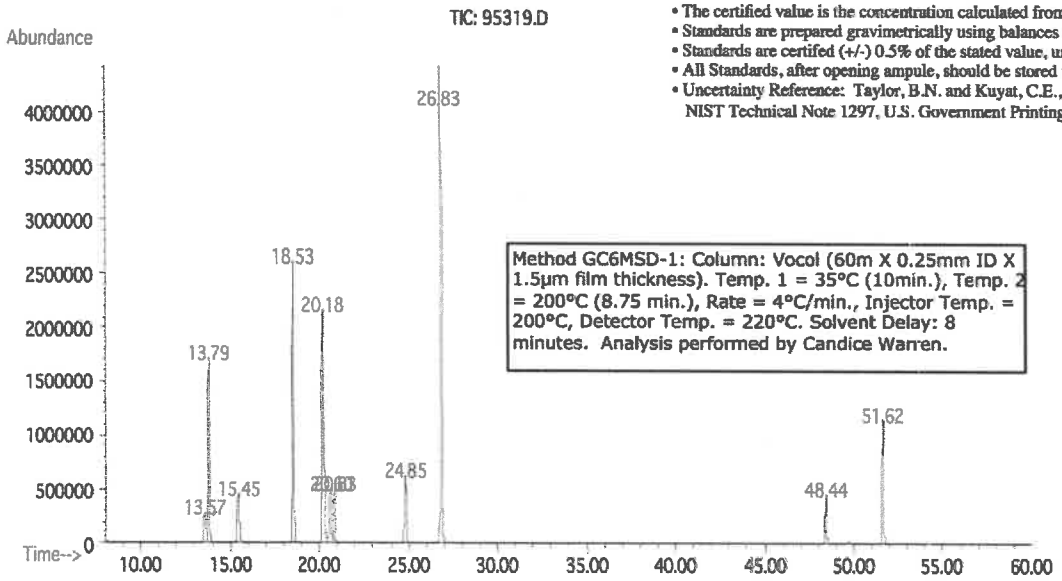
Part Number: 95319
Lot Number: 032922
Description: Revised Additions Mix
11 components
Expiration Date: 032925
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): Varied
NIST Test ID#: 6UTB

Solvent(s): Methanol **Lot#** EC592-US

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 100.0 0.012 Flask Uncertainty

Formulated By:	Prashant Chauhan	032922 DATE
Reviewed By:	Pedro L. Rentas	032922 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.	Acrylonitrile	7	4718CK	10000	99	0.2	1.01015	1.01030	10001.5	40.5	107-13-1	N/A	orl-rat 78 mg/kg
2.	1-Chlorobutane	1072	MKCM5711	2000	99.99	0.2	0.20003	0.20020	2001.7	8.1	109-69-3	N/A	orl-rat 2670mg/kg
3.	Cyclohexane	1023	28930	2000	99	0.2	0.20203	0.20215	2001.2	8.2	110-82-7	300 ppm (1050mg/m3/8H)	orl-rat 12705mg/kg
4.	Di-isopropyl ether (DIPE)	987	00412MX	2000	99	0.2	0.20203	0.20215	2001.2	8.2	108-20-3	500 ppm (2100mg/m3/8H)	orl-rat 8470mg/kg
5.	1,4-Dioxane	373	03853KE	40000	99	0.2	4.04060	4.04100	40004.0	161.9	123-91-1	25 ppm (90mg/m3/8H)(skin)	orl-mus 5700mg/kg
6.	Hexachloroethane	199	12604HBV	2000	99	0.2	0.20203	0.20213	2001.0	8.2	67-72-1	1 ppm (10mg/m3/8H)(skin)	orl-gpg 4970mg/kg
7.	Methylcyclohexane	1627	08046KN	2000	99	0.2	0.20203	0.20215	2001.2	8.2	108-87-2	N/A	N/A
8.	Methyl tert-butyl ether (MTBE)	209	02197JJ	2000	99.8	0.2	0.20041	0.20055	2001.4	8.1	1634-04-4	N/A	orl-rat 4g/kg
9.	Propionitrile	349	1395468	20000	99	0.2	2.02030	2.02045	20001.5	81.0	107-12-0	N/A	orl-rat 39mg/kg
10.	Tetrahydrofuran	380	SHBH8330	10000	99.9	0.2	1.00105	1.00120	10001.5	40.1	109-99-9	20 ppm (590mg/m3/8H)	orl-rat 1650mg/kg
11.	1,2,3,4-Tetramethylbenzene	491	AP01	2000	93	0.2	0.21506	0.21520	2001.3	8.7	488-23-3	N/A	orl-rat 6408mg/kg



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are 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).

Method GC6MSD-1: Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Temp. 1 = 35°C (10min.), Temp. 2 = 200°C (8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Solvent Delay: 8 minutes. Analysis performed by Candice Warren.

Name	MSD RT (min.)
Methyl tert-butyl ether (MTBE)	13.56
Acrylonitrile	13.79
Di-isopropyl ether	15.44
Propionitrile	18.53
Tetrahydrofuran	20.17
Cyclohexane	20.58
1-Chlorobutane	20.83
Methylcyclohexane	24.84
1,4-Dioxane	26.84
Hexachloroethane	48.44
1,2,3,4-Tetramethylbenzene	51.62

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, 2023

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face 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:	CAS#:	LD50 Oral - Rat	OSHA PEL	% (optional)
Methanol	67-56-1	2,769 mg/kg	200 ppm	> 99

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

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

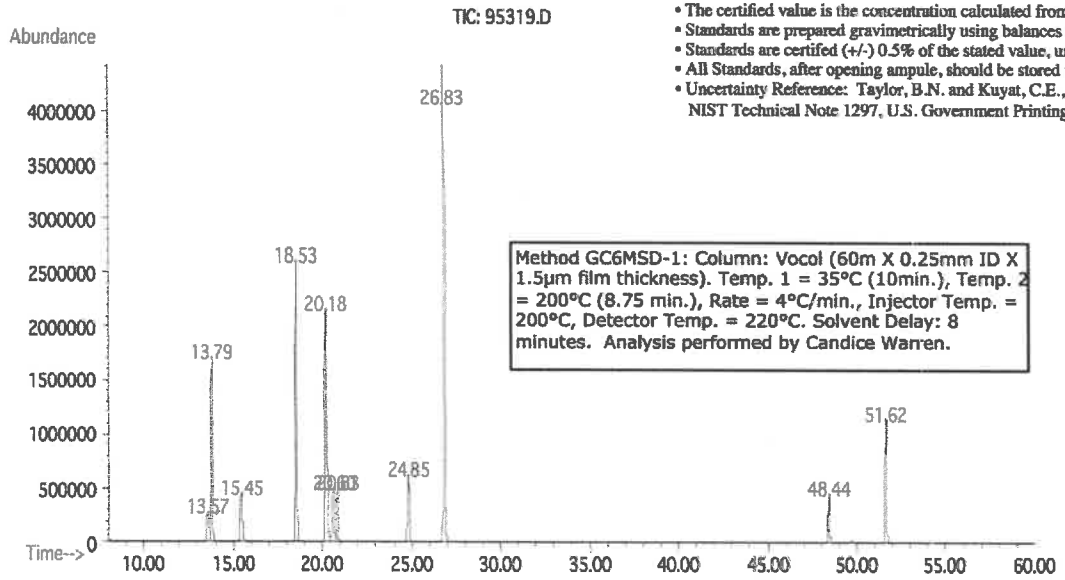
Part Number: 95319
Lot Number: 032922
Description: Revised Additions Mix
11 components
Expiration Date: 032925
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): Varied
NIST Test ID#: 6UTB

Solvent(s): Methanol **Lot#** EC592-US

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 100.0 0.012 Flask Uncertainty

Formulated By:	Prashant Chauhan	032922 DATE
Reviewed By:	Pedro L. Rentas	032922 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. Acrylonitrile	7	4718CK	10000	99	0.2	1.01015	1.01030	10001.5	40.5	107-13-1	N/A	orl-rat 78 mg/kg
2. 1-Chlorobutane	1072	MKCM5711	2000	99.99	0.2	0.20003	0.20020	2001.7	8.1	109-69-3	N/A	orl-rat 2670mg/kg
3. Cyclohexane	1023	28930	2000	99	0.2	0.20203	0.20215	2001.2	8.2	110-82-7	300 ppm (1050mg/m3/8H)	orl-rat 12705mg/kg
4. Di-isopropyl ether (DIPE)	987	00412MX	2000	99	0.2	0.20203	0.20215	2001.2	8.2	108-20-3	500 ppm (2100mg/m3/8H)	orl-rat 8470mg/kg
5. 1,4-Dioxane	373	03853KE	40000	99	0.2	4.04060	4.04100	40004.0	161.9	123-91-1	25 ppm (90mg/m3/8H)(skin)	orl-mus 5700mg/kg
6. Hexachloroethane	199	12604HBV	2000	99	0.2	0.20203	0.20213	2001.0	8.2	67-72-1	1 ppm (10mg/m3/8H)(skin)	orl-gpg 4970mg/kg
7. Methylcyclohexane	1627	08046KN	2000	99	0.2	0.20203	0.20215	2001.2	8.2	108-87-2	N/A	N/A
8. Methyl tert-butyl ether (MTBE)	209	02197JJ	2000	99.8	0.2	0.20041	0.20055	2001.4	8.1	1634-04-4	N/A	orl-rat 4g/kg
9. Propionitrile	349	1395468	20000	99	0.2	2.02030	2.02045	20001.5	81.0	107-12-0	N/A	orl-rat 39mg/kg
10. Tetrahydrofuran	380	SHBH8330	10000	99.9	0.2	1.00105	1.00120	10001.5	40.1	109-99-9	20 ppm (590mg/m3/8H)	orl-rat 1650mg/kg
11. 1,2,3,4-Tetramethylbenzene	491	AP01	2000	93	0.2	0.21506	0.21520	2001.3	8.7	488-23-3	N/A	orl-rat 6408mg/kg



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are 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).

Method GC6MSD-1: Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Temp. 1 = 35°C (10min.), Temp. 2 = 200°C (8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Solvent Delay: 8 minutes. Analysis performed by Candice Warren.

Name	MSD RT (min.)
Methyl tert-butyl ether (MTBE)	13.56
Acrylonitrile	13.79
Di-isopropyl ether	15.44
Propionitrile	18.53
Tetrahydrofuran	20.17
Cyclohexane	20.58
1-Chlorobutane	20.83
Methylcyclohexane	24.84
1,4-Dioxane	26.84
Hexachloroethane	48.44
1,2,3,4-Tetramethylbenzene	51.62

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, 2023

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face 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:	CAS#:	LD50 Oral - Rat	OSHA PEL	% (optional)
Methanol	67-56-1	2,769 mg/kg	200 ppm	> 99

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

ANAB ISO 17034 Accredite
AR-1539 Certificate Number
https://Absolutestandards.co

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 111722
Description: 2-Chloroethyl vinyl ether

Solvent(s): Methanol **Lot#** EB679-US

Expiration Date: 111725
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

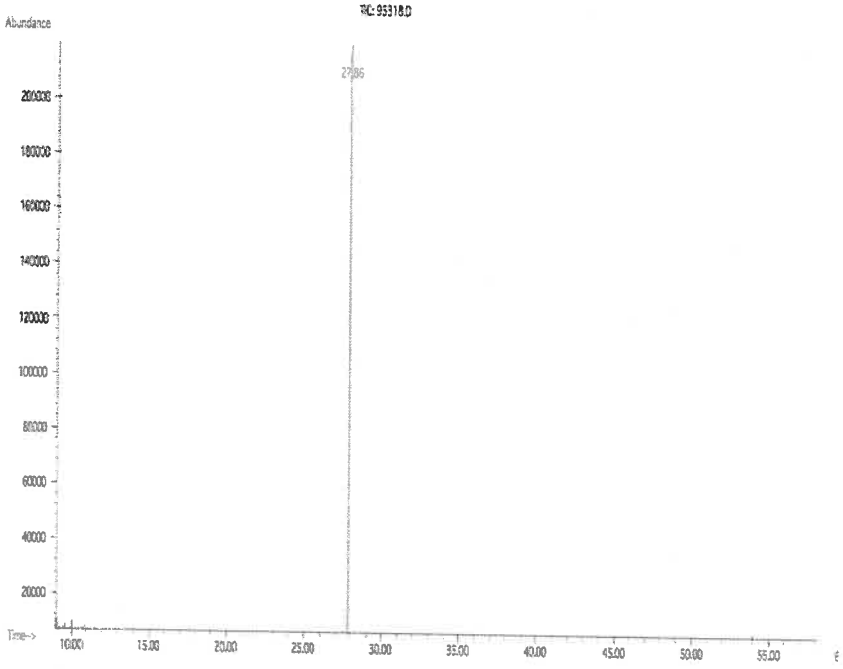
Weight(s) shown below were combined and diluted to (mL): 50.0 | 5E-05 Balance Uncertainty | 0.001 Flask Uncertainty

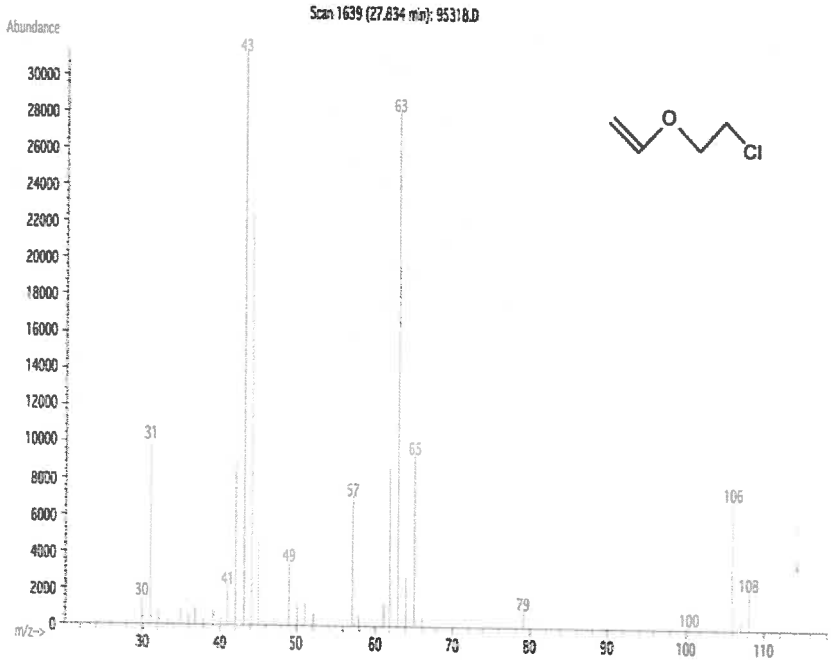
Formulated By: Eli Aliaga 111722 DATE

Reviewed By: Pedro L. Rentas 111722 DATE

	Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1.	2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50541	0.50551	10001.9	40.5	110-75-8	N/A	orl-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.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 12/6/24
20 vial
V14630 to
V14649

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

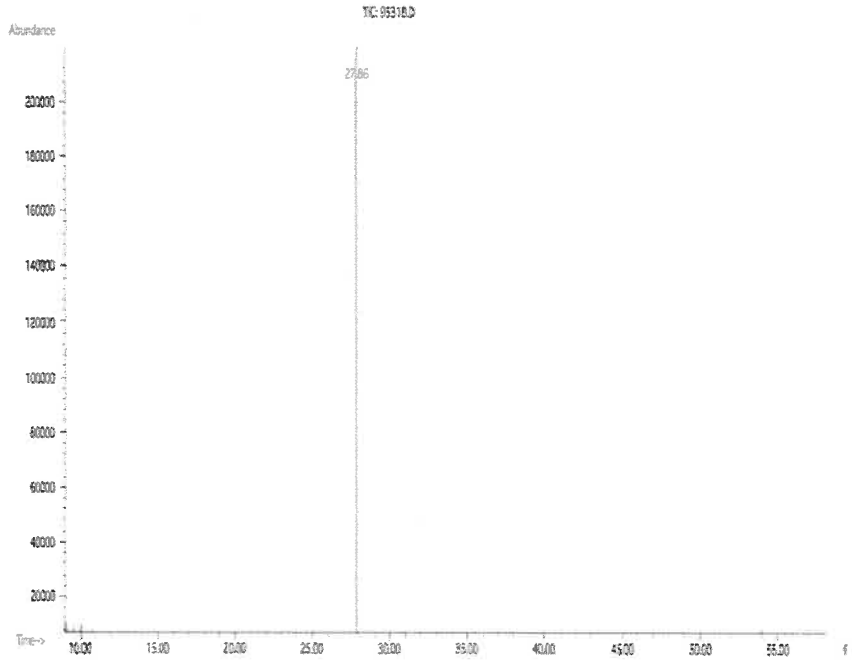
Solvent(s): Methanol **Lot#** EJ143-US

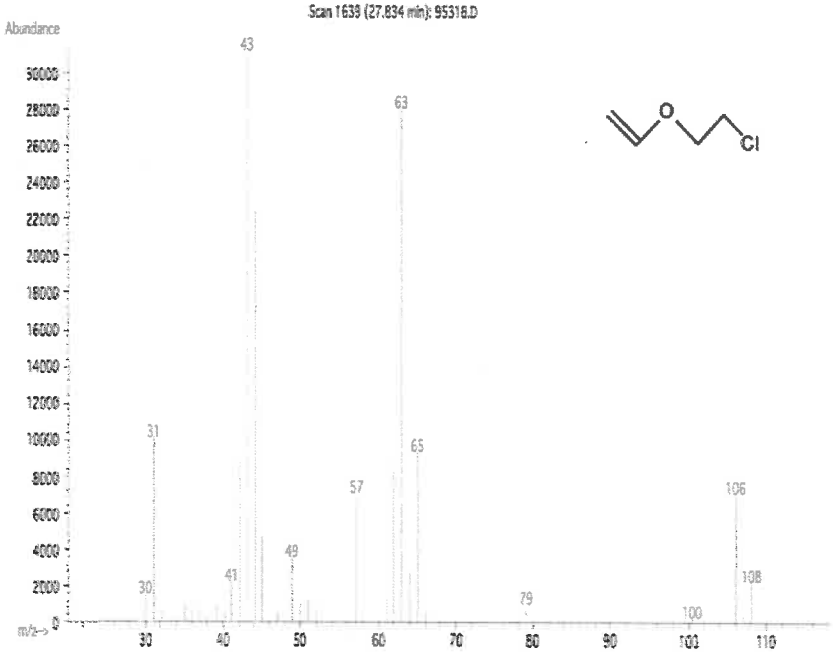
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

Prashant Chauhan	120524
Formulated By: Prashant Chauhan	DATE
Pedro Rentas	120524
Reviewed By: Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	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

Dec 12/6/24
20 vial
V14630 to
V14649

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

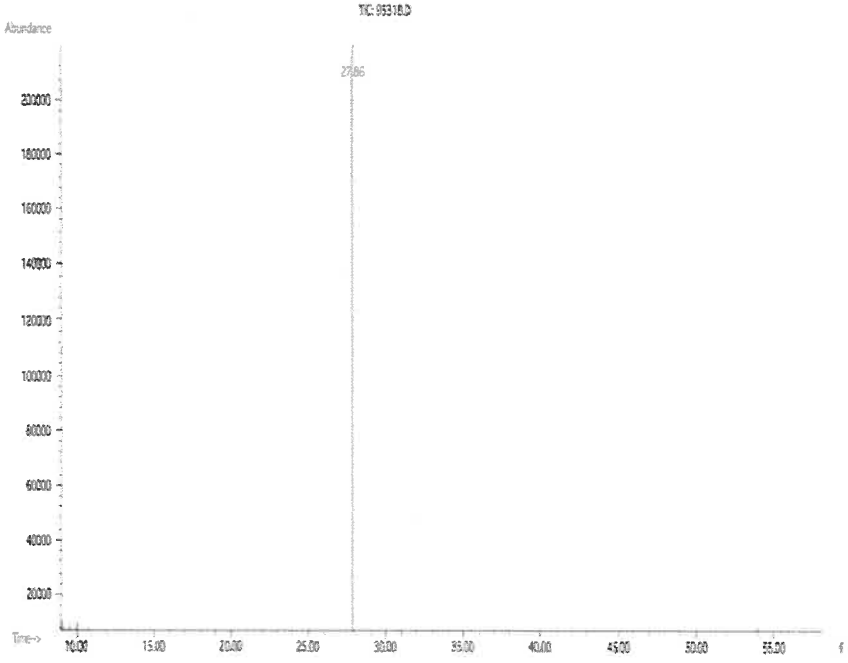
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

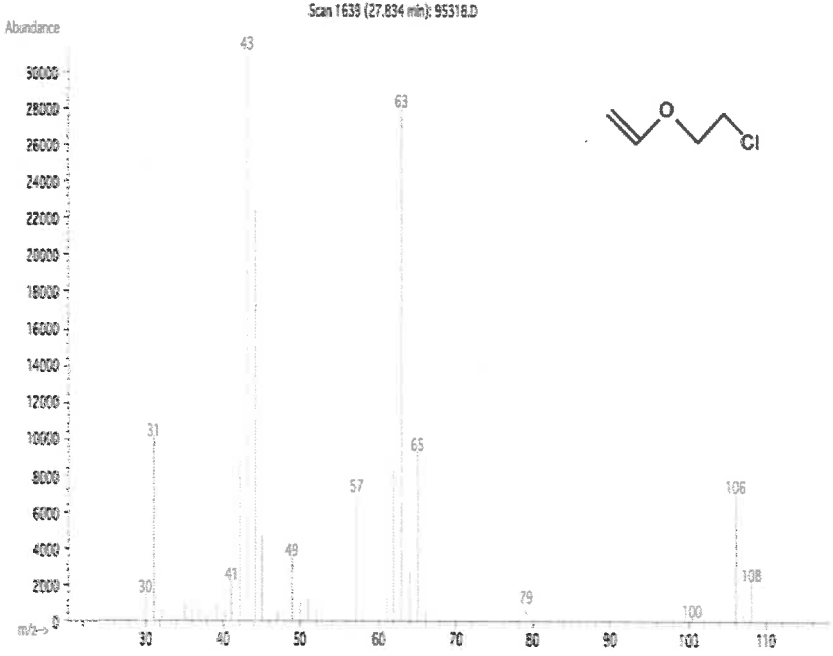
Weight(s) shown below were combined and diluted to (mL): 50.0

Prashant Chauhan	120524
Formulated By: Prashant Chauhan	DATE
Pedro Rentas	120524
Reviewed By: Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	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
V14630 to
V14649

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

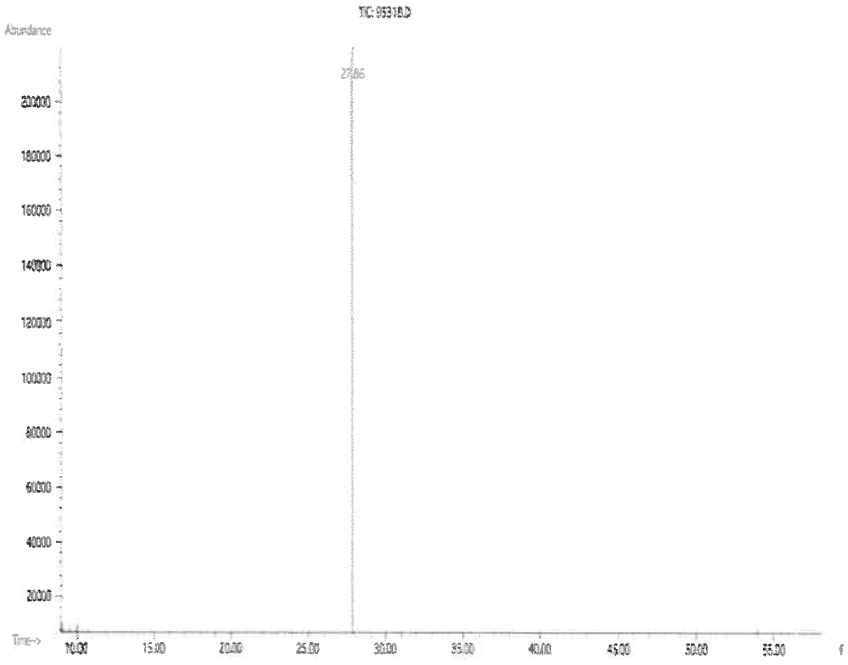
Solvent(s): Methanol **Lot#** EJ143-US

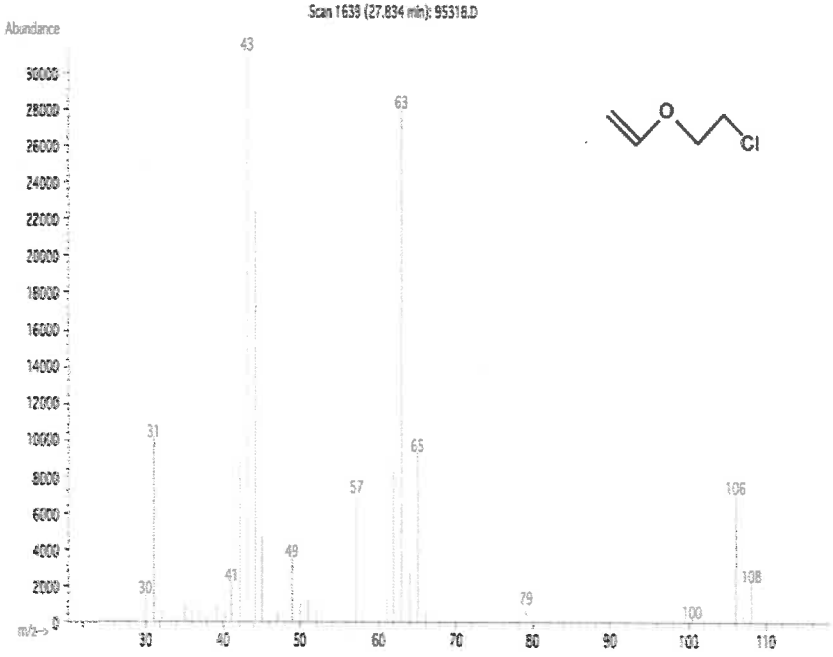
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

Prashant Chauhan	120524
Formulated By: Prashant Chauhan	DATE
Pedro Rentas	120524
Reviewed By: Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	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
V14630 to
V14649

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

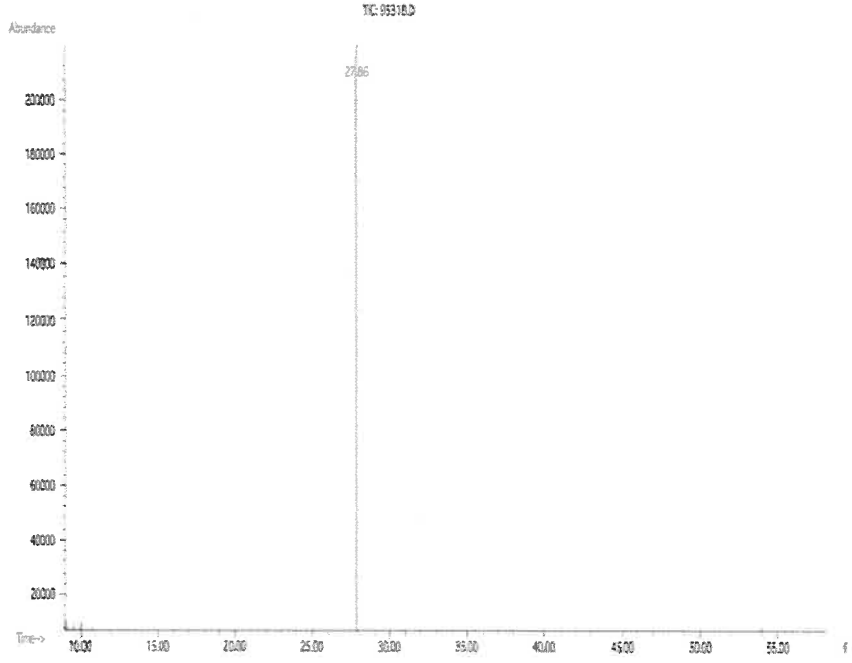
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

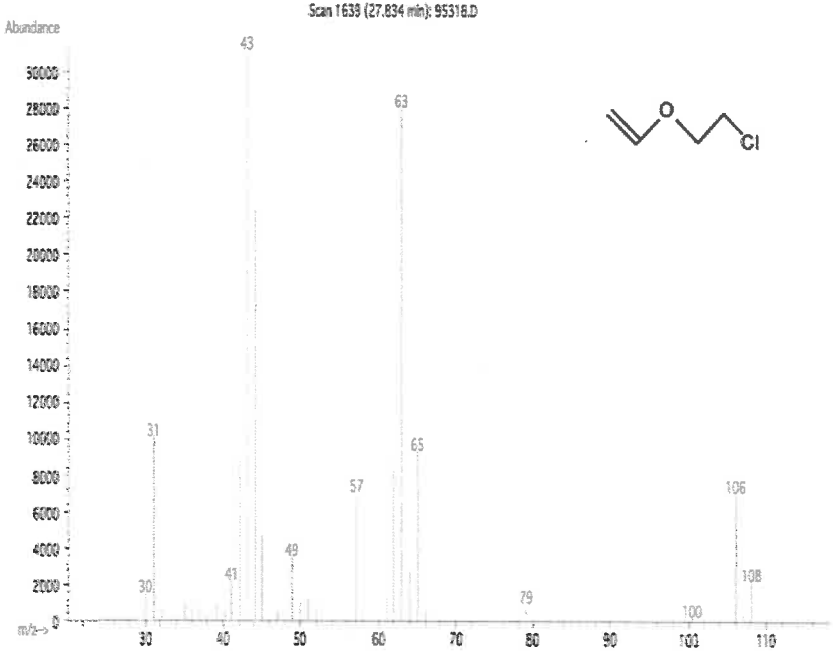
Weight(s) shown below were combined and diluted to (mL): 50.0

Prashant Chauhan	120524
Formulated By: Prashant Chauhan	DATE
Pedro Rentas	120524
Reviewed By: Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	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.

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

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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. : 30470 **Lot No.:** A0181905

Description : tert-Butanol Standard

tert-Butanol Std 50,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 28, 2025 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)		
1	tert-Butanol (TBA)		50,126.0	µg/mL	+/- 293.4988	µg/mL	Gravimetric
	CAS # 75-65-0	(Lot SHBM7694)			+/- 1,073.7654	µg/mL	Unstressed
	Purity 99%				+/- 1,104.9494	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

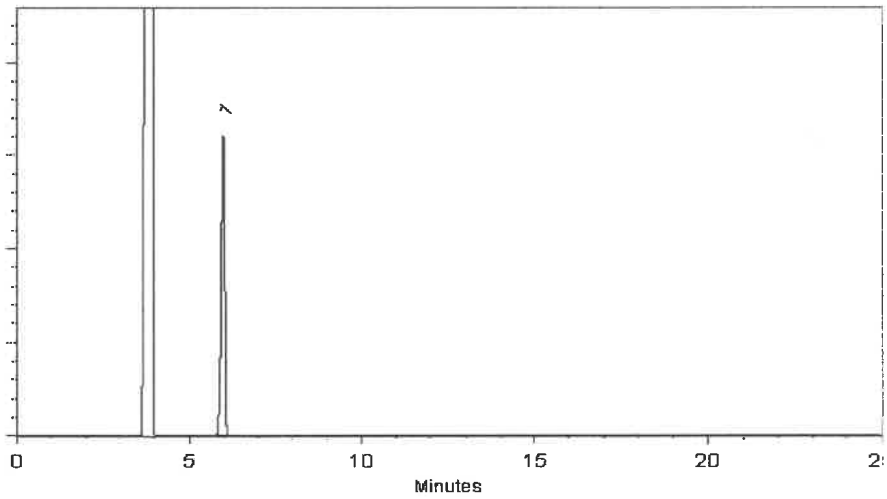
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

John Friedline - Operations Technician I

Date Mixed: 16-Feb-2022 **Balance:** B442140311

Marlina Cowan - Operations Tech I

Date Passed: 21-Feb-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

4 J

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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. : 30470 **Lot No.:** A0191703

Description : tert-Butanol Standard

tert-Butanol Std 50,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2025 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	tert-Butanol (TBA)		50,122.0 µg/mL	+/- 293.4753	µg/mL	Gravimetric
	CAS # 75-65-0	(Lot 101619K21F-1)		+/- 1,073.6797	µg/mL	Unstressed
	Purity 99%			+/- 1,104.8612	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

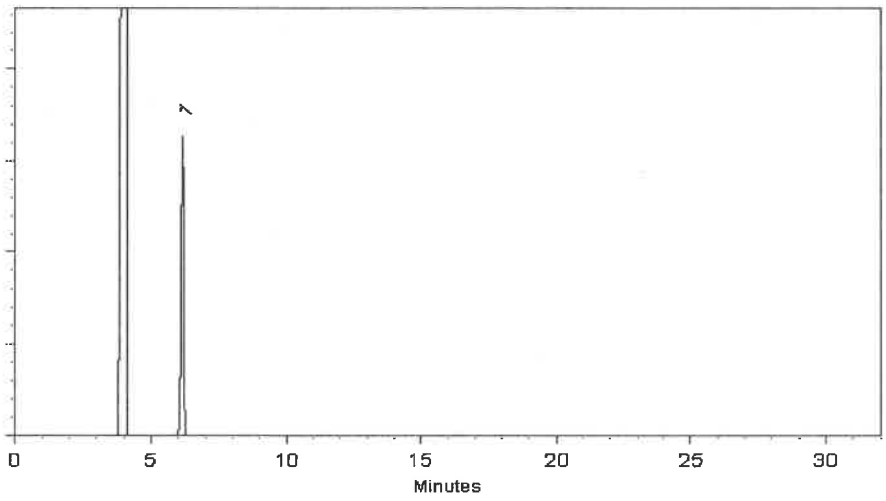
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Alicia Leathers - Operation Technician I

Date Mixed: 15-Nov-2022 **Balance:** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 17-Nov-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

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.)

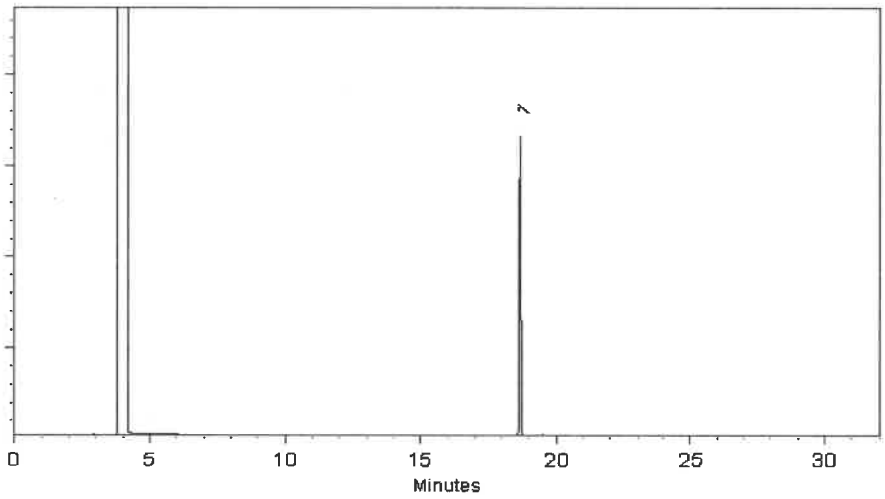
Inj. Temp:
200°C

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. : 30225 **Lot No.:** A0193071

Description : Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	00008541	99%	2,018.0 µg/mL	+/- 113.3890

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

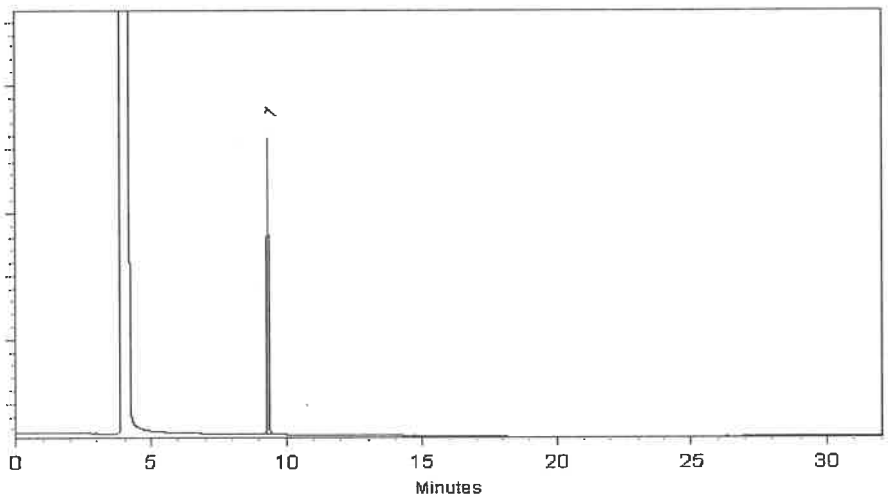
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022 **Balance Serial #** B707717271

Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  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. : 30225 **Lot No.:** A0193071

Description : Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	00008541	99%	2,018.0 µg/mL	+/- 113.3890

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

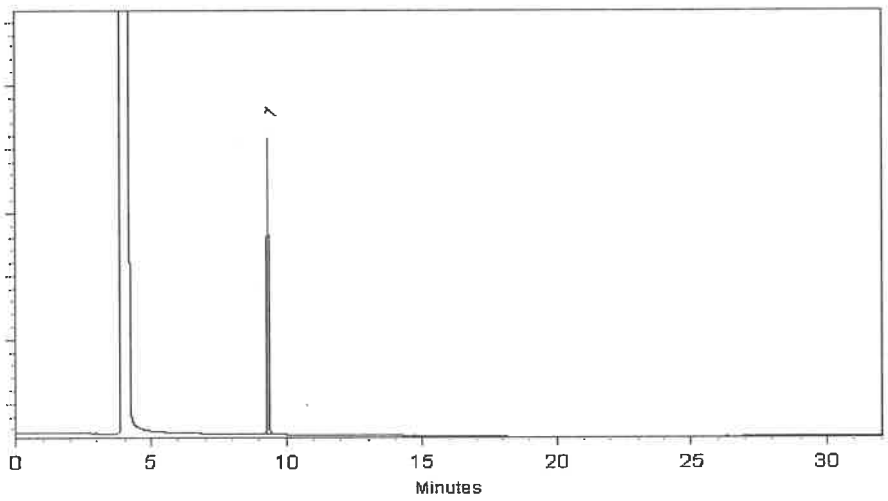
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022 **Balance Serial #** B707717271

Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  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. : 30225 **Lot No.:** A0193071

Description : Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	00008541	99%	2,018.0 µg/mL	+/- 113.3890

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

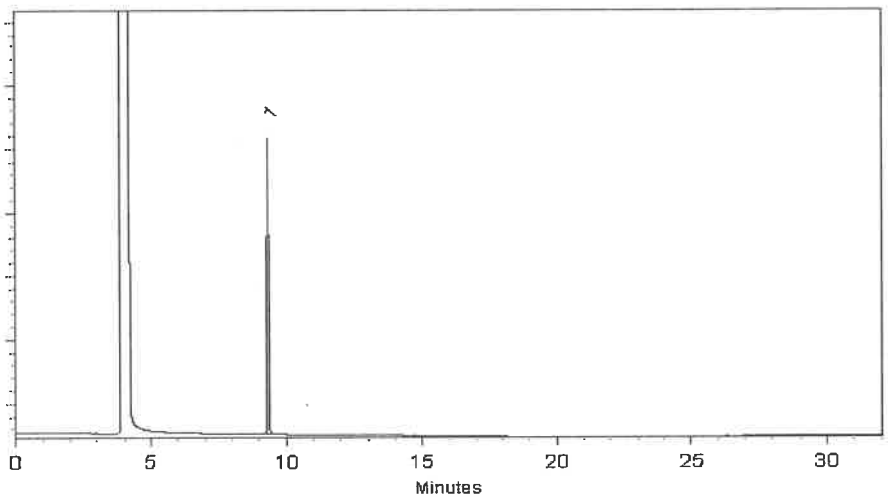
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022 **Balance Serial #** B707717271

Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  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. : 30225 **Lot No.:** A0193071

Description : Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	00008541	99%	2,018.0 µg/mL	+/- 113.3890

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

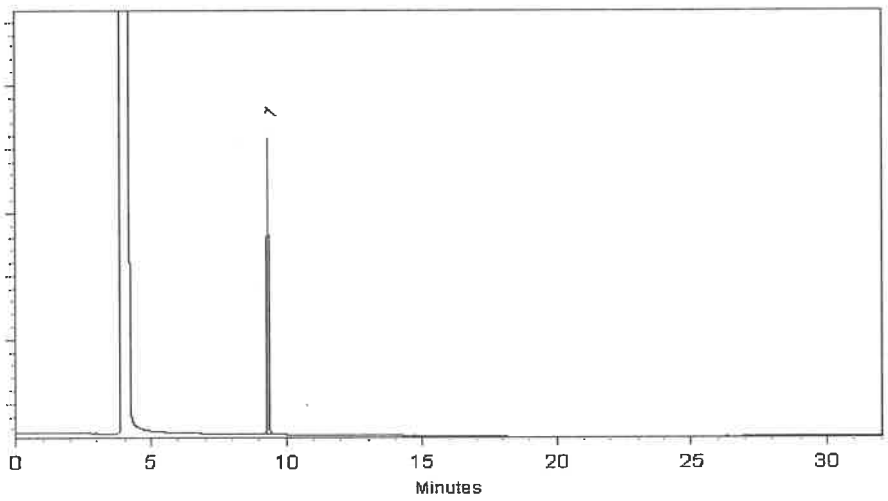
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022 **Balance Serial #** B707717271

Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  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

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA 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.:** A0193887

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBP8774	99%	5,006.5 µg/mL	+/- 173.0015
2	2-Butanone (MEK)	78-93-3	SHBN9536	99%	5,008.5 µg/mL	+/- 173.0706
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP4724	99%	5,000.3 µg/mL	+/- 172.7884
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,001.7 µg/mL	+/- 172.8345

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

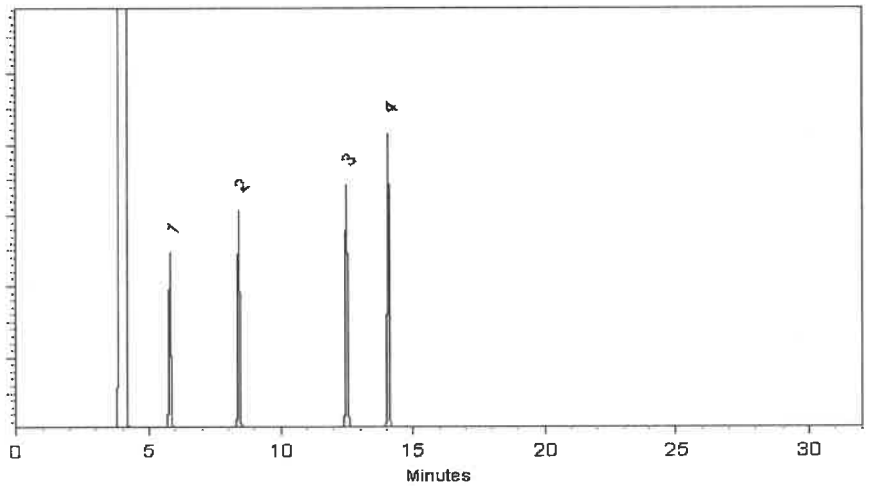
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Josh McCloskey - Operations Technician I

Date Mixed: 24-Jan-2023 **Balance Serial #** B707717271

Christie Mills - Operations Tech II - ARM QC

Date Passed: 27-Jan-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  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. : 30042 **Lot No.:** A0194279

Description : 502.2 Calibration Mix #1

502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2029 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00012554	99%	2,001.5 µg/mL	+/- 112.7231
2	Chloromethane (methyl chloride)	74-87-3	SHBK6571	99%	2,001.2 µg/mL	+/- 112.5863
3	Vinyl chloride	75-01-4	00015559	99%	2,001.4 µg/mL	+/- 112.6561
4	Bromomethane (methyl bromide)	74-83-9	101604	99%	2,006.4 µg/mL	+/- 112.8262
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,001.9 µg/mL	+/- 112.5897
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCL8411	99%	2,000.8 µg/mL	+/- 112.6473

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

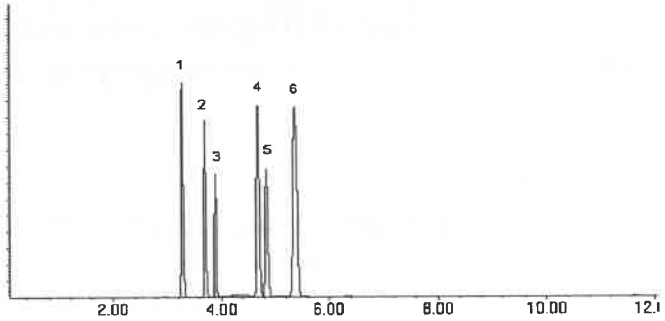
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD

Split Vent:
Split ratio 10:1

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 03-Feb-2023 **Balance Serial #** B707717271

Christie Mills - Operations Tech II - ARM QC

Date Passed: 07-Feb-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/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

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.:** A0196865

Description : Custom 8260A/B Surrogate Mix

Custom 8260A/B Surrogate Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2-Dichloroethane-d4	17060-07-0	PR-32845	99%	25,036.0 µg/mL	+/- 1,417.9179
2	1-Bromo-4-fluorobenzene (BFB)	460-00-4	184975	99%	25,132.0 µg/mL	+/- 1,423.3549
3	Dibromofluoromethane	1868-53-7	022013	99%	25,040.0 µg/mL	+/- 1,418.1445
4	Toluene-d8	2037-26-5	PR-33397	99%	25,028.0 µg/mL	+/- 1,417.4648

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Russ Bookhamer - Operations Technician I

Date Mixed: 11-Apr-2023 **Balance:** 1127510105

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  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. : 30042 **Lot No.:** A0197644

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 : January 31, 2030 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00012554	99%	2,001.6 µg/mL	+/- 112.7159
2	Chloromethane (methyl chloride)	74-87-3	SHBM9611	99%	2,002.0 µg/mL	+/- 112.7840
3	Vinyl chloride	75-01-4	00015559	99%	2,002.2 µg/mL	+/- 112.6713
4	Bromomethane (methyl bromide)	74-83-9	101604	99%	2,006.4 µg/mL	+/- 112.8861
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,000.9 µg/mL	+/- 112.5990
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCL8411	99%	1,999.2 µg/mL	+/- 112.4861

* 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.

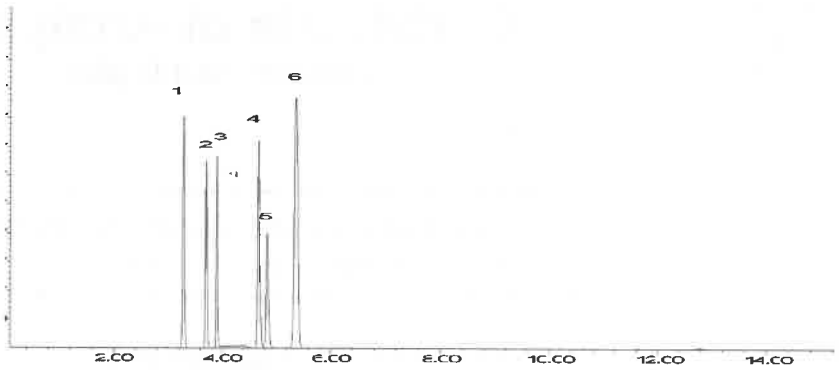
Inj. Temp:
200°C

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.

Brittany Federinko - Operations Tech I

Date Mixed: 02-May-2023 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 08-May-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.)

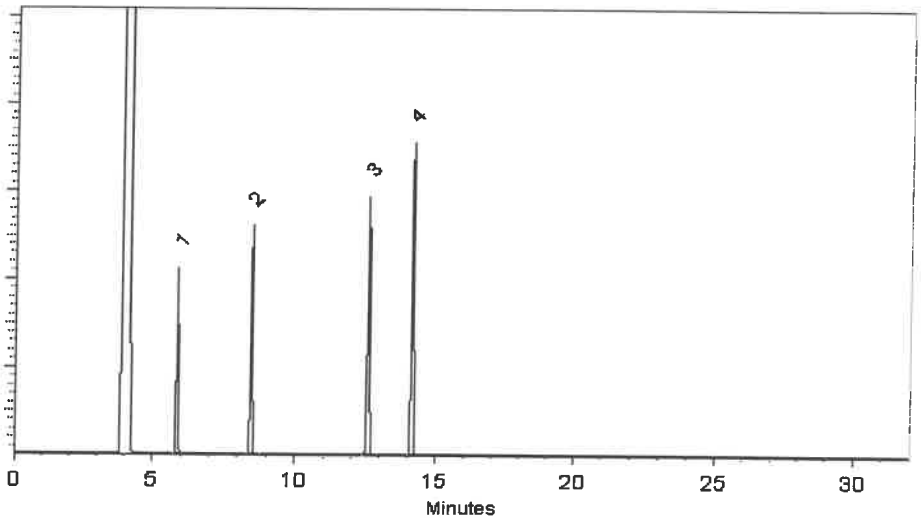
Inj. Temp:
200°C

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.)

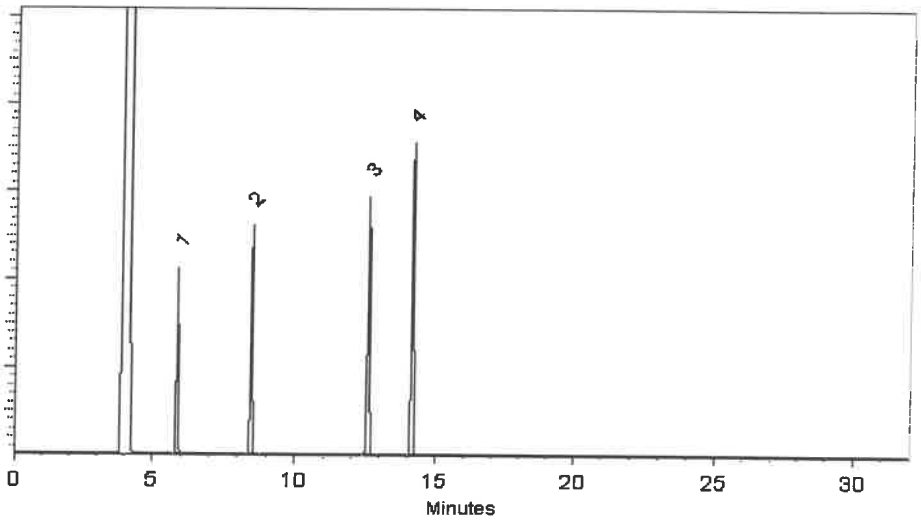
Inj. Temp:
200°C

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

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.)

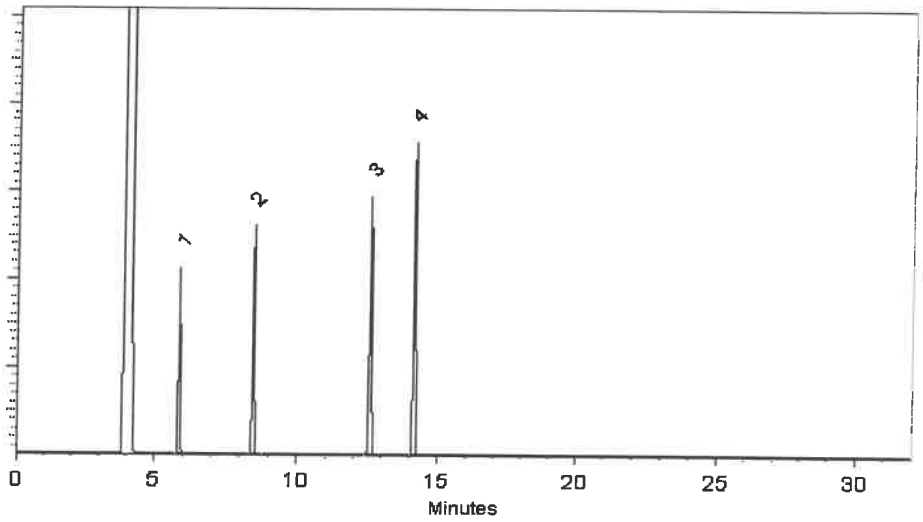
Inj. Temp:
200°C

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

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA 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.:** A0205013

Description : 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2025 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBP3100	99%	2,012.7 µg/mL	+/- 69.5670
2	Vinyl acetate	108-05-4	RP231030CTH	98%	2,017.5 µg/mL	+/- 69.7338
3	Ethyl acetate	141-78-6	SHBQ9682	99%	2,020.0 µg/mL	+/- 69.8205
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,018.7 µg/mL	+/- 69.7744
5	Propyl acetate	109-60-4	KLOBM	99%	2,012.0 µg/mL	+/- 69.5439
6	Butyl acetate	123-86-4	SHBP6314	99%	2,020.0 µg/mL	+/- 69.8205
7	Amyl acetate	628-63-7	41325/1	97%	2,019.5 µg/mL	+/- 69.8046

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

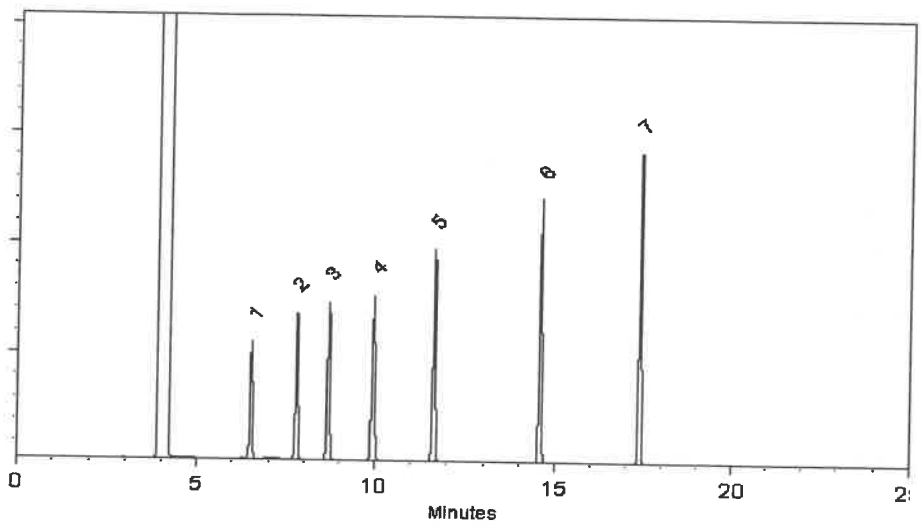
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brittany Federinko - Operations Tech I

Date Mixed: 04-Dec-2023 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 06-Dec-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  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

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA 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-FL **Lot No.:** A0205177

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, 2025 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Vinyl acetate	108-05-4	RP231030CTH	98%	8,047.8 µg/mL	+/- 278.1675

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

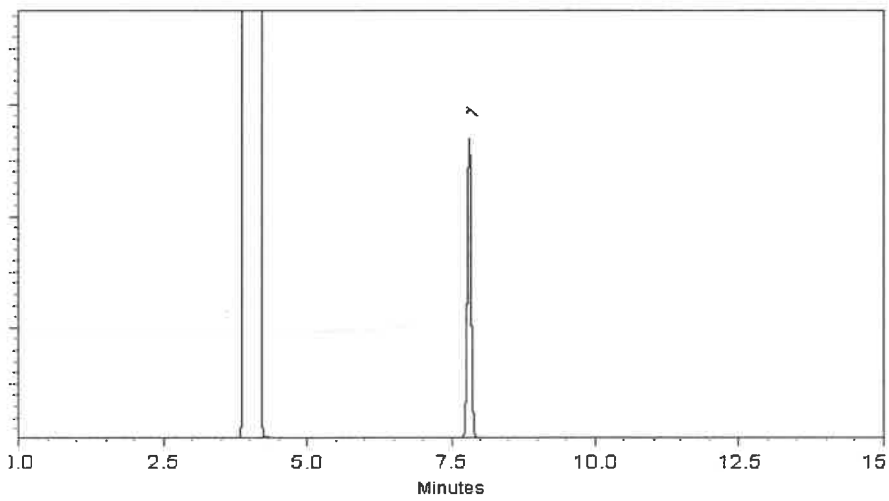
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 06-Dec-2023 **Balance Serial #** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Dec-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  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.

12

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

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.:** A0205179

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, 2025 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Vinyl acetate	108-05-4	RP231030CTH	98%	8,075.2 µg/mL	+/- 279.1159

* 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.)

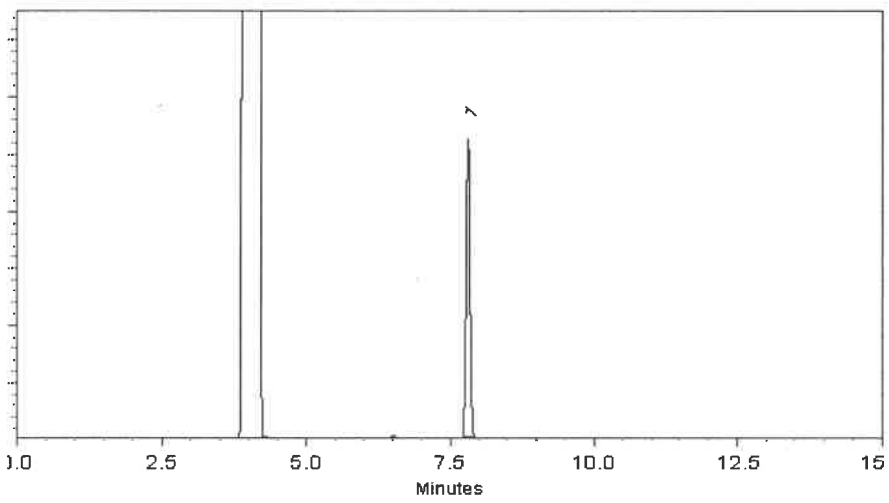
Inj. Temp:
200°C

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.

Daniel Wasson - Operations Tech I **Date Mixed:** 06-Dec-2023 **Balance Serial #** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC **Date Passed:** 11-Dec-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  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

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.:** A0205179

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, 2025 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Vinyl acetate	108-05-4	RP231030CTH	98%	8,075.2 µg/mL	+/- 279.1159

* 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.)

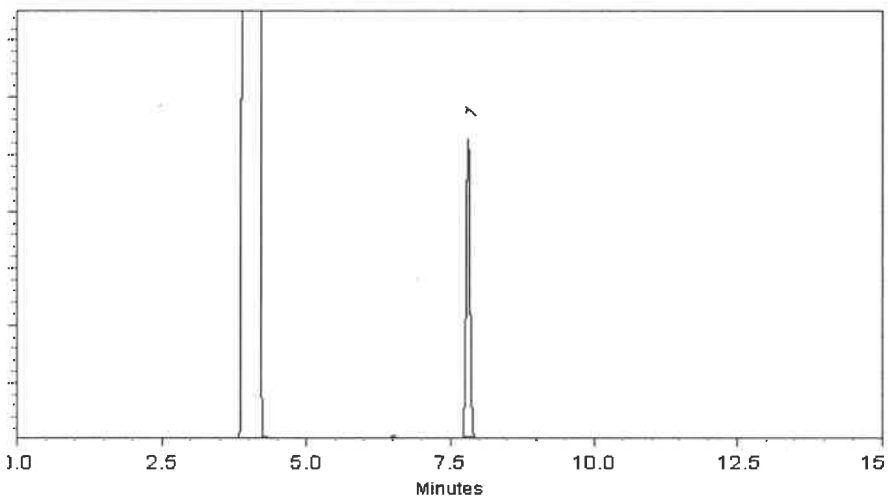
Inj. Temp:
200°C

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.

Daniel Wasson - Operations Tech I **Date Mixed:** 06-Dec-2023 **Balance Serial #** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC **Date Passed:** 11-Dec-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  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. : 30489 **Lot No.:** A0209618

Description : 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBP3100	99%	2,019.3 µg/mL	+/- 69.7974
2	Vinyl acetate	108-05-4	RP231030CTH	98%	2,016.8 µg/mL	+/- 69.7112
3	Ethyl acetate	141-78-6	SHBQ9682	99%	2,010.7 µg/mL	+/- 69.4979
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,016.0 µg/mL	+/- 69.6822
5	Propyl acetate	109-60-4	P8XLN	99%	2,008.0 µg/mL	+/- 69.4057
6	Butyl acetate	123-86-4	SHBP6314	99%	2,007.3 µg/mL	+/- 69.3826
7	Amyl acetate	628-63-7	41325/1	97%	2,004.7 µg/mL	+/- 69.2905

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

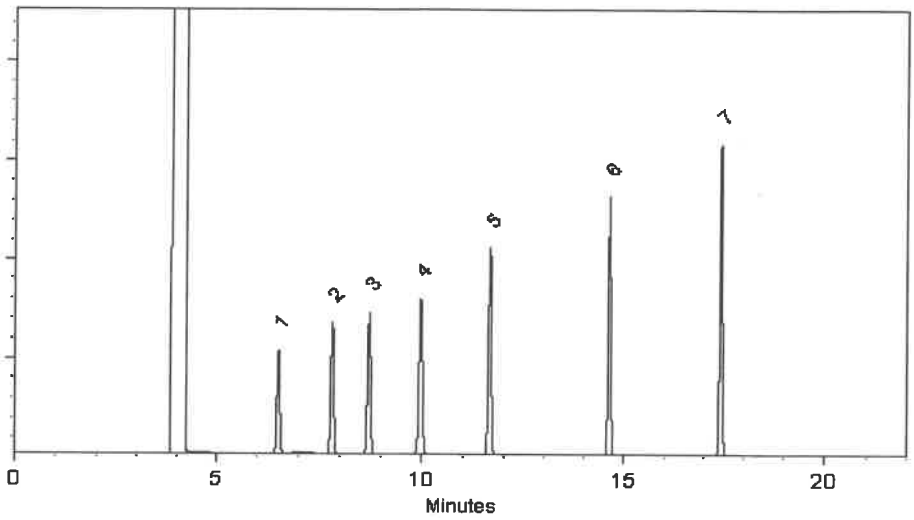
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

Date Mixed: 28-Mar-2024 **Balance Serial #** B707717271

Dillan Murphy - Operations Technician I

Date Passed: 01-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  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. : 30489 **Lot No.:** A0209618

Description : 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBP3100	99%	2,019.3 µg/mL	+/- 69.7974
2	Vinyl acetate	108-05-4	RP231030CTH	98%	2,016.8 µg/mL	+/- 69.7112
3	Ethyl acetate	141-78-6	SHBQ9682	99%	2,010.7 µg/mL	+/- 69.4979
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,016.0 µg/mL	+/- 69.6822
5	Propyl acetate	109-60-4	P8XLN	99%	2,008.0 µg/mL	+/- 69.4057
6	Butyl acetate	123-86-4	SHBP6314	99%	2,007.3 µg/mL	+/- 69.3826
7	Amyl acetate	628-63-7	41325/1	97%	2,004.7 µg/mL	+/- 69.2905

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

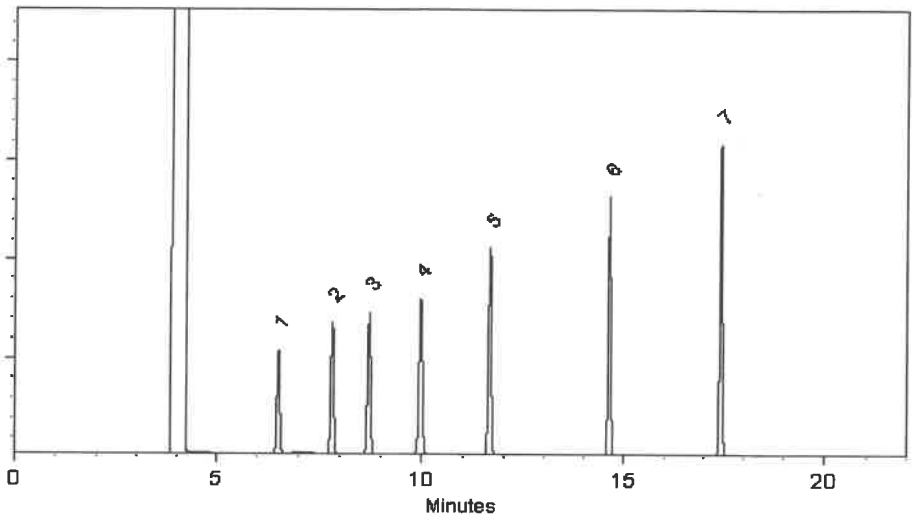
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

Date Mixed: 28-Mar-2024 **Balance Serial #** B707717271

Dillan Murphy - Operations Technician I

Date Passed: 01-Apr-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  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

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA 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. : 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

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.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredite
AR-1539 Certificate Number
https://Absolutestandards.co

CERTIFIED WEIGHT REPORT

Part Number: 70046
Lot Number: 070122
Description: Bromochloromethane

Solvent: Methanol **Lot#** EC592-US

Expiration Date: 070127
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 1000
NIST Test ID#: 6UTB

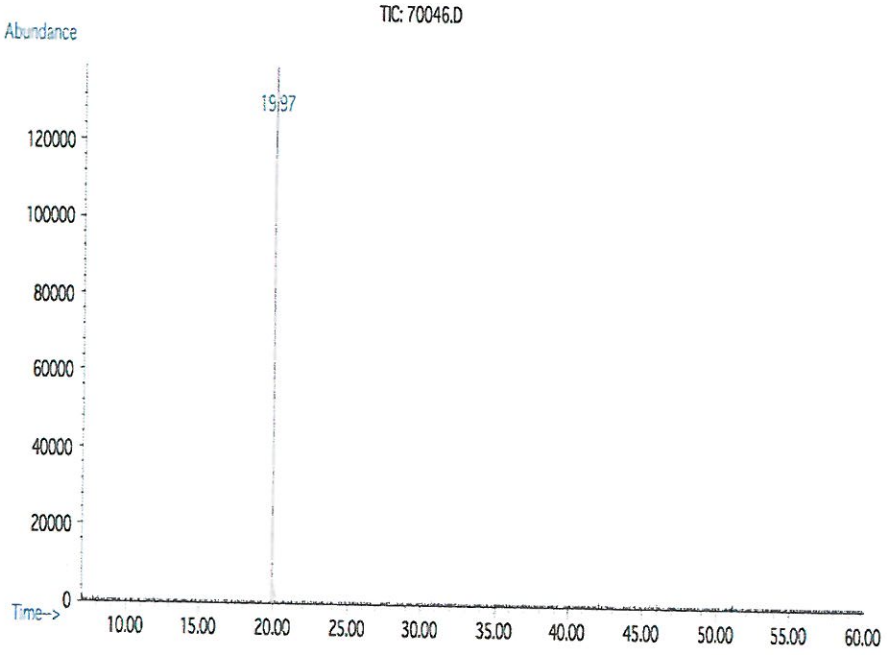
Weight(s) shown below were combined and diluted to (mL): 25.0

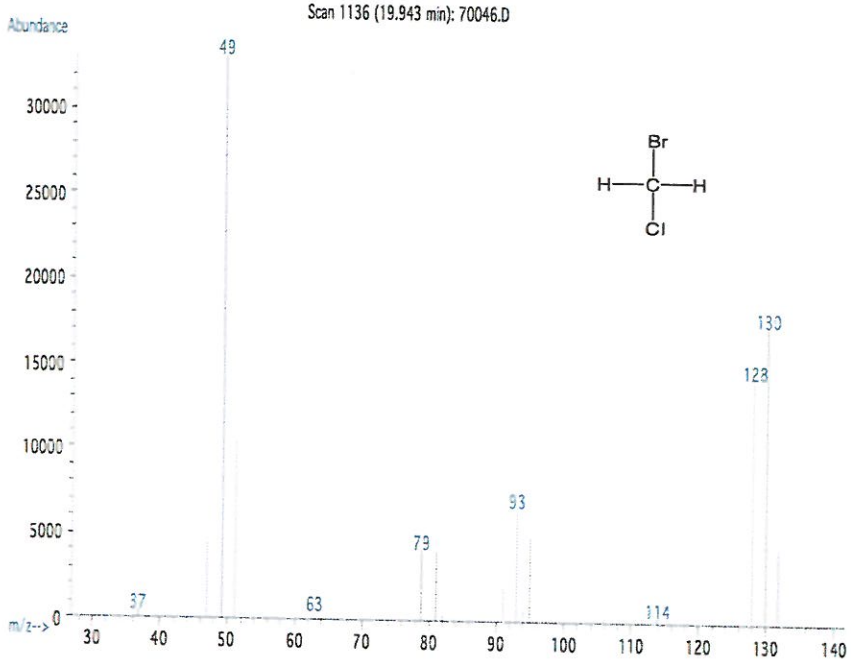
5E-05 Balance Uncertainty
0.0002 Flask Uncertainty

Formulated By:	Gabriel Helland	070122 DATE
Reviewed By:	Pedro L. Rentas	070122 DATE

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. Bromochloromethane	46	AY01	1000	99	0.2	0.02530	0.02540	1004.1	5.7	74-97-5	200 ppm (1050mg/m3/8H)	orl-rat 5000mg/kg

Method GC6MSD-1.M: Column : (60m X 0.25mm X 1.5 µm) Temp 1 = 35°C (10min.), Temp 2 = 200°C (8.75 min.), Rate = 4°C/min., Injector B= 200°C, Detector B = 220°C. Analyst: Candice Warren





- 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).

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

avantor™ | J.T.Baker®

Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.2
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

James T Ethier
Jamie Ethier
Vice President Global Quality

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

avantor™ | J.T.Baker®

Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.2
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

James T Ethier
Jamie Ethier
Vice President Global Quality

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

avantor™ | J.T.Baker®

Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.2
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

James T Ethier
Jamie Ethier
Vice President Global Quality

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

avantor™ | J.T.Baker®

Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.2
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

James T Ethier
Jamie Ethier
Vice President Global Quality

SHIPPING DOCUMENTS

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax: (908) 78-8922
www.chemtech.net

Chemtech Project Number: Q1022

COC Number:

CLIENT INFORMATION

COMPANY: Tetra Tech
ADDRESS: 4433 Corporation Lane Suite 300
CITY: Virginia Beach STATE: VA ZIP: 23462
ATTENTION: Ernie Wu
PHONE: 757-466-4901 FAX: 757-461-4148

PROJECT INFORMATION

PROJECT NAME: NWIRP Bethpage
PROJECT #: 112G08005-WE13 LOCATION: VPB-189
PROJECT MANAGER: Ernie Wu
E-MAIL: ernie.wu@tetratech.com
PHONE: 757-466-4901 FAX: 757-461-4148

BILLING INFORMATION

BILL TO: SEE CONTRACT PO#
ADDRESS:
CITY: STATE: ZIP:
ATTENTION: PHONE:

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)							

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# of Bottles	PRESERVATIVES A	1	2	3	4	5	6	7	8	9	COMMENTS
1.	BP-VPB-190A-TB-20250103	QA		X	1/3/25	8:00	2	2										Trip Blank
2.	BP-VPB-190A-DUP-20250103	QA		X	1/3/25	12:00	2	2										Duplicate sample
3.	BP-VPB-190A-GW-838-840	AQ		X	1/3/25	11:45	3	2	1									
4.	BP-VPB-190A-GW-858-860	AQ		X	1/3/25	14:15	2	2										
5.																		
6.																		
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

	DATE/TIME		
1. RELINQUISHED BY SAMPLER	1/6/25 15:00	RECEIVED BY 1	1530 1-6-25
2. RELINQUISHED BY	DATE/TIME	RECEIVED BY 2	
3. RELINQUISHED BY	1814 1-6-25	RECEIVED FOR LAB BY 3	

Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant ☐ Cooler Temp 2.8C
MeOH extraction requires an additional 4oz. Jar for percent solid ☐ Ice in Cooler?:

Comments: **48hr 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

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1022 TETR06
Client Name : Tetra Tech NUS, Inc.
Client Contact : Ernie Wu
Invoice Name : Tetra Tech NUS, Inc.
Invoice Contact : Ernie Wu

Order Date : 1/6/2025 3:27:00 PM
Project Name : CTO WE13
Receive DateTime : 1/6/2025 ~~12:00:00~~ AM 18:19
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
Q1022-01	BP-VPB-190A-TB-20250103	Water	01/03/2025	08:00					
					VOCMS Group1		8260-Low		2 Bus. Days
Q1022-02	BP-VPB-190A-DUP-20250103	Water	01/03/2025	12:00					
					VOCMS Group1		8260-Low		2 Bus. Days
Q1022-03	BP-VPB-190A-GW-838-840	Water	01/03/2025	11:45					
					VOCMS Group1		8260-Low		2 Bus. Days
Q1022-04	BP-VPB-190A-GW-858-860	Water	01/03/2025	14:15					
					VOCMS Group1		8260-Low		2 Bus. Days

Relinguished By :
Date / Time : 1-7-25 0945

Received By : Sam
Date / Time : 01/07/25 9:45 Reg #4

Storage Area : VOA Refridgerator Room

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044596.D
Acq On : 07 Jan 2025 10:06
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Quant Time: Jan 08 02:26:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 02:18:40 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	171763	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	304446	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	256598	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	105249	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	3576	1.291	ug/l	0.01
Spiked Amount 50.000	Range 74 - 125		Recovery =	2.580%#		
35) Dibromofluoromethane	5.379	113	2391	1.145	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	2.300%#		
50) Toluene-d8	8.653	98	7361	1.032	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	2.060%#		
62) 4-Bromofluorobenzene	11.085	95	2073	0.824	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	1.640%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	2356	0.948	ug/l	87
3) Chloromethane	1.294	50	2528	1.021	ug/l	90
4) Vinyl Chloride	1.374	62	2161	0.930	ug/l	98
5) Bromomethane	1.599	94	1531	1.272	ug/l	94
6) Chloroethane	1.666	64	1657	1.343	ug/l #	84
7) Trichlorofluoromethane	1.873	101	3373	0.975	ug/l	85
8) Diethyl Ether	2.136	74	1388	1.136	ug/l	92
10) Methyl Iodide	2.453	142	2197	0.794	ug/l	94
11) Tert butyl alcohol	3.001	59	949	2.783	ug/l #	83
12) 1,1-Dichloroethene	2.312	96	1851	0.963	ug/l	89
13) Acrolein	2.233	56	2897	6.425	ug/l	99
14) Allyl chloride	2.654	41	2973	0.930	ug/l	96
15) Acrylonitrile	3.068	53	4546	4.629	ug/l	99
16) Acetone	2.386	43	5331	6.107	ug/l #	75
17) Carbon Disulfide	2.508	76	3121	0.785	ug/l	96
18) Methyl Acetate	2.697	43	2652	1.029	ug/l	92
19) Methyl tert-butyl Ether	3.111	73	6074	0.922	ug/l	96
20) Methylene Chloride	2.788	84	2360	1.060	ug/l	97
21) trans-1,2-Dichloroethene	3.087	96	1904	0.965	ug/l #	76
22) Diisopropyl ether	3.763	45	5870	0.894	ug/l #	57
23) Vinyl Acetate	3.727	43	20280	3.818	ug/l	99
24) 1,1-Dichloroethane	3.611	63	3494	0.913	ug/l #	86
25) 2-Butanone	4.593	43	5065	4.020	ug/l	91
26) 2,2-Dichloropropane	4.471	77	3241	0.979	ug/l	81
27) cis-1,2-Dichloroethene	4.483	96	2066	0.859	ug/l	90
28) Bromochloromethane	4.891	49	1791	1.005	ug/l #	88
29) Tetrahydrofuran	5.019	42	4263	4.941	ug/l	98
30) Chloroform	5.092	83	3923	0.951	ug/l #	83
31) Cyclohexane	5.452	56	2876	0.915	ug/l	89
32) 1,1,1-Trichloroethane	5.385	97	2914	0.839	ug/l #	46
36) 1,1-Dichloropropene	5.696	75	2395	0.887	ug/l #	86
37) Ethyl Acetate	4.739	43	1012	0.367	ug/l #	89
38) Carbon Tetrachloride	5.659	117	2842	0.949	ug/l #	74
39) Methylcyclohexane	7.373	83	3120	0.906	ug/l #	81
40) Benzene	6.043	78	7861	0.925	ug/l #	90
41) Methacrylonitrile	4.934	41	858	0.579	ug/l #	67

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044596.D
Acq On : 07 Jan 2025 10:06
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Quant Time: Jan 08 02:26:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 02:18:40 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) 1,2-Dichloroethane	6.098	62	2879	0.866	ug/l		92
43) Isopropyl Acetate	6.342	43	1761	0.387	ug/l	#	67
44) Trichloroethene	7.123	130	1160	0.534	ug/l		88
45) 1,2-Dichloropropane	7.433	63	1913	0.923	ug/l		93
46) Dibromomethane	7.580	93	1547	0.960	ug/l		87
47) Bromodichloromethane	7.824	83	2442	0.833	ug/l	#	88
48) Methyl methacrylate	7.720	41	1140	0.525	ug/l	#	67
49) 1,4-Dioxane	7.683	88	212	6.639	ug/l	#	76
51) 4-Methyl-2-Pentanone	8.574	43	10986	4.125	ug/l		100
52) Toluene	8.720	92	4484	0.874	ug/l		97
53) t-1,3-Dichloropropene	8.994	75	2011	0.717	ug/l	#	87
54) cis-1,3-Dichloropropene	8.366	75	2591	0.822	ug/l	#	87
55) 1,1,2-Trichloroethane	9.153	97	1876	0.933	ug/l		89
56) Ethyl methacrylate	9.128	69	2131	0.729	ug/l	#	84
57) 1,3-Dichloropropane	9.311	76	2823	0.836	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.250	63	6102	4.210	ug/l		96
59) 2-Hexanone	9.445	43	7059	3.748	ug/l		92
60) Dibromochloromethane	9.518	129	1408	0.702	ug/l		78
61) 1,2-Dibromoethane	9.610	107	1717	0.846	ug/l		92
64) Tetrachloroethene	9.269	164	1846	1.018	ug/l		91
65) Chlorobenzene	10.073	112	5014	0.921	ug/l		97
66) 1,1,1,2-Tetrachloroethane	10.153	131	1470	0.813	ug/l	#	64
67) Ethyl Benzene	10.195	91	7980	0.853	ug/l		98
68) m/p-Xylenes	10.305	106	5317	1.547	ug/l		93
69) o-Xylene	10.640	106	3266	0.942	ug/l		81
70) Styrene	10.659	104	4055	0.731	ug/l		87
71) Bromoform	10.805	173	784	1.277	ug/l	#	96
73) Isopropylbenzene	10.963	105	7140	0.916	ug/l		97
74) N-amyl acetate	10.854	43	2332	0.737	ug/l		96
75) 1,1,2,2-Tetrachloroethane	11.207	83	2410	0.959	ug/l		98
76) 1,2,3-Trichloropropane	11.238	75	2613	1.238	ug/l		99
77) Bromobenzene	11.201	156	1682	0.888	ug/l		95
78) n-propylbenzene	11.305	91	7221	0.822	ug/l		97
79) 2-Chlorotoluene	11.366	91	5802	1.019	ug/l		94
80) 1,3,5-Trimethylbenzene	11.451	105	5205	0.805	ug/l		97
81) trans-1,4-Dichloro-2-b...	11.018	75	450	0.649	ug/l	#	68
82) 4-Chlorotoluene	11.457	91	5992	0.936	ug/l		91
83) tert-Butylbenzene	11.713	119	5537	0.860	ug/l		95
84) 1,2,4-Trimethylbenzene	11.750	105	5545	0.854	ug/l		96
85) sec-Butylbenzene	11.890	105	6591	0.841	ug/l		98
86) p-Isopropyltoluene	12.006	119	5229	0.795	ug/l		91
87) 1,3-Dichlorobenzene	11.969	146	3064	0.894	ug/l		96
88) 1,4-Dichlorobenzene	11.969	146	3064	0.858	ug/l		97
89) n-Butylbenzene	12.335	91	4140	0.745	ug/l		92
90) Hexachloroethane	12.536	117	1044	0.988	ug/l		82
91) 1,2-Dichlorobenzene	12.341	146	3284	0.948	ug/l		93
92) 1,2-Dibromo-3-Chloropr...	12.945	75	415	0.871	ug/l		89
93) 1,2,4-Trichlorobenzene	13.591	180	1722	0.846	ug/l		90
94) Hexachlorobutadiene	13.719	225	765	0.903	ug/l		92
95) Naphthalene	13.780	128	4461	0.679	ug/l		98
96) 1,2,3-Trichlorobenzene	13.963	180	1788	0.859	ug/l		90

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044596.D
Acq On : 07 Jan 2025 10:06
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Quant Time: Jan 08 02:26:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 02:18:40 2025
Response via : Initial Calibration

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

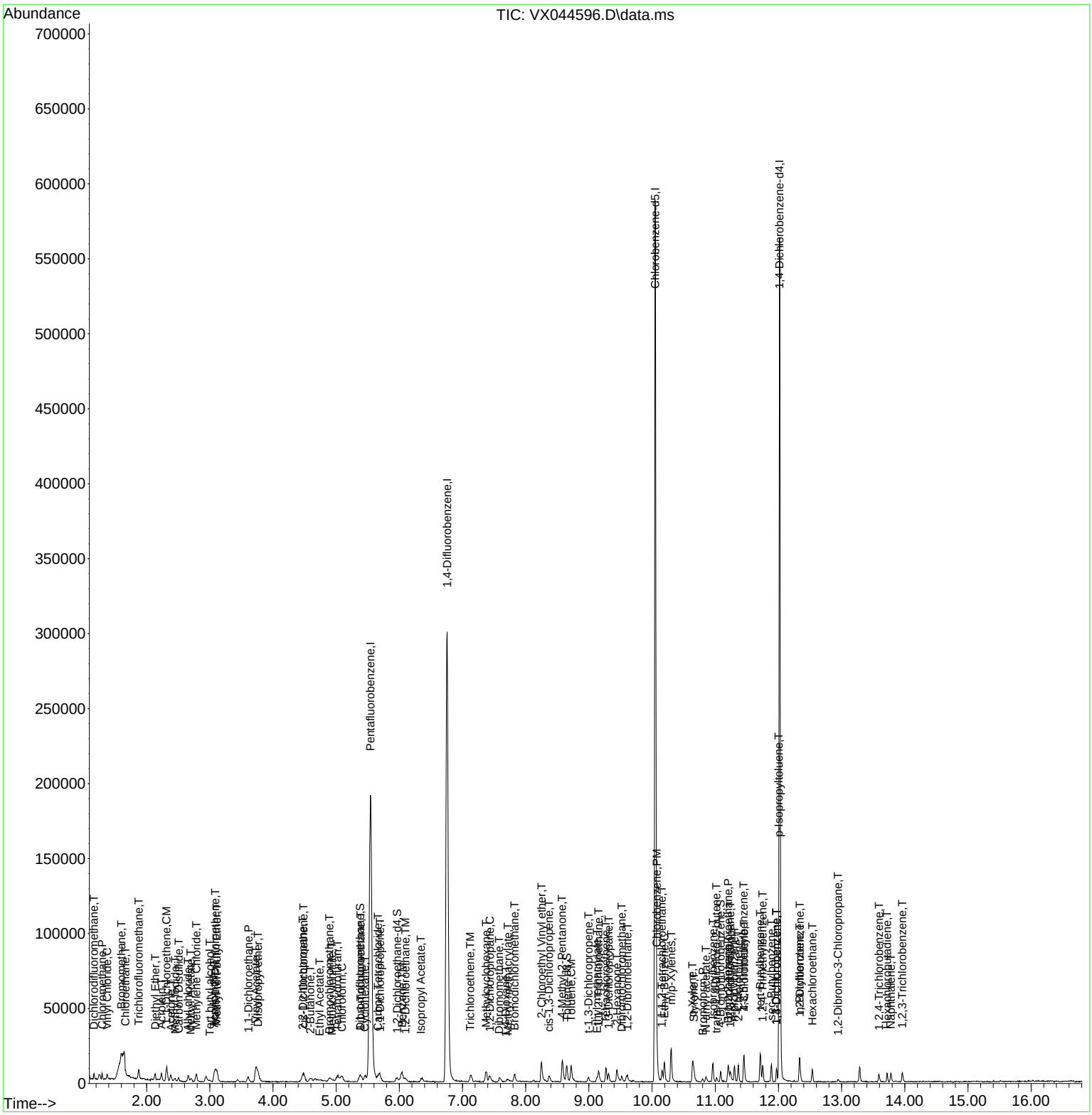
(#) = qualifier out of range (m) = manual integration (+) = signals summed

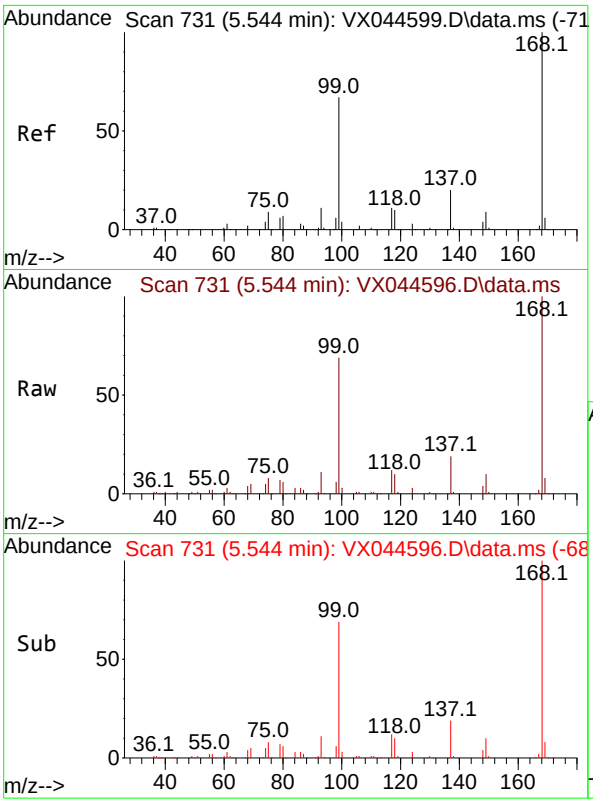
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044596.D
Acq On : 07 Jan 2025 10:06
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Quant Time: Jan 08 02:26:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 02:18:40 2025
Response via : Initial Calibration



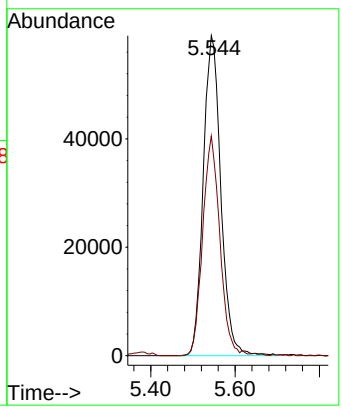


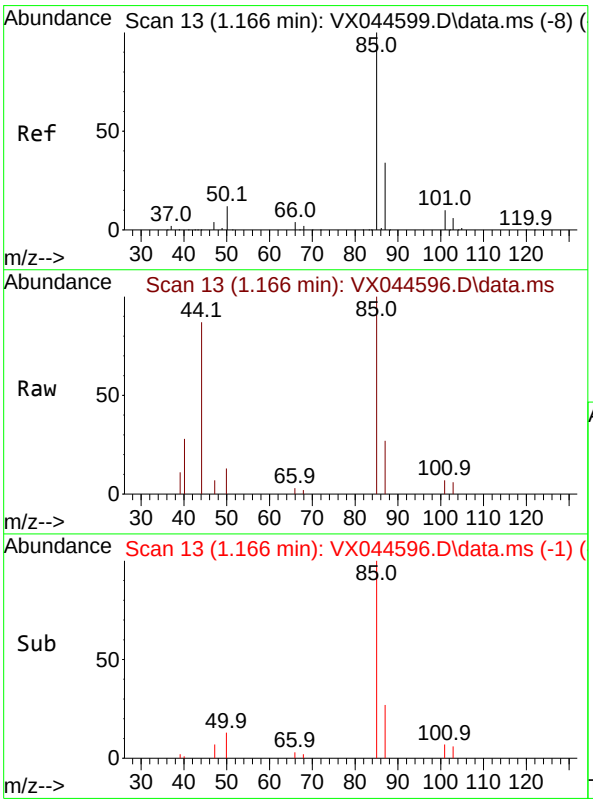
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:168 Resp: 171763

Ion	Ratio	Lower	Upper
168	100		
99	68.6	53.5	80.3

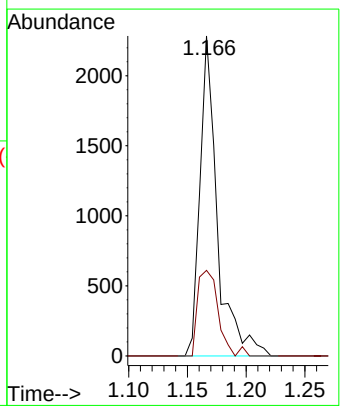


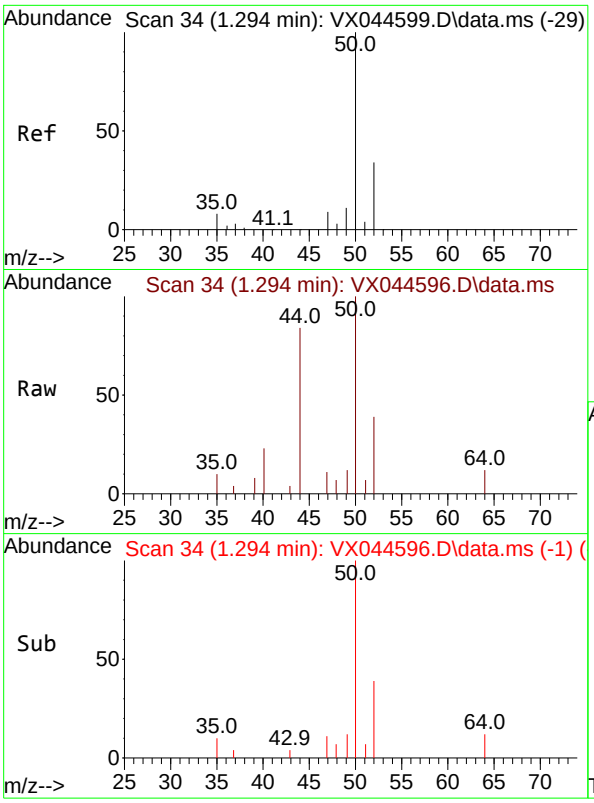


#2
Dichlorodifluoromethane
Concen: 0.948 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 85 Resp: 2356

Ion	Ratio	Lower	Upper
85	100		
87	26.8	17.2	51.5



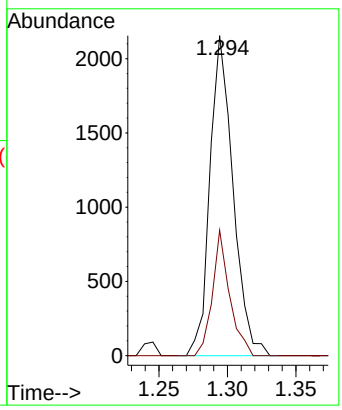


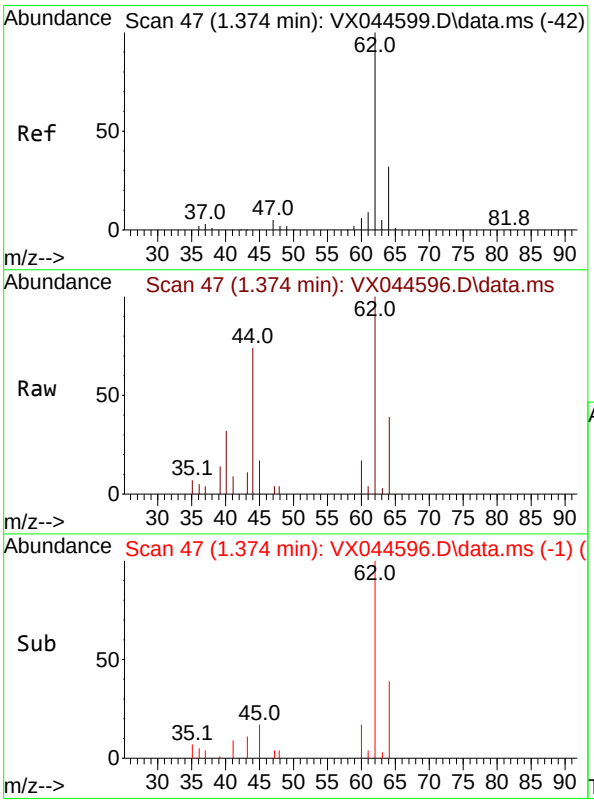
#3
Chloromethane
Concen: 1.021 ug/l
RT: 1.294 min Scan# 34
Delta R.T. -0.000 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 50 Resp: 2528

Ion	Ratio	Lower	Upper
50	100		
52	39.2	27.0	40.4

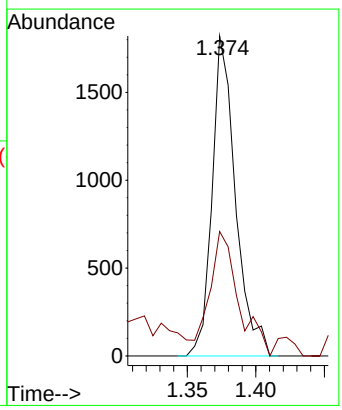


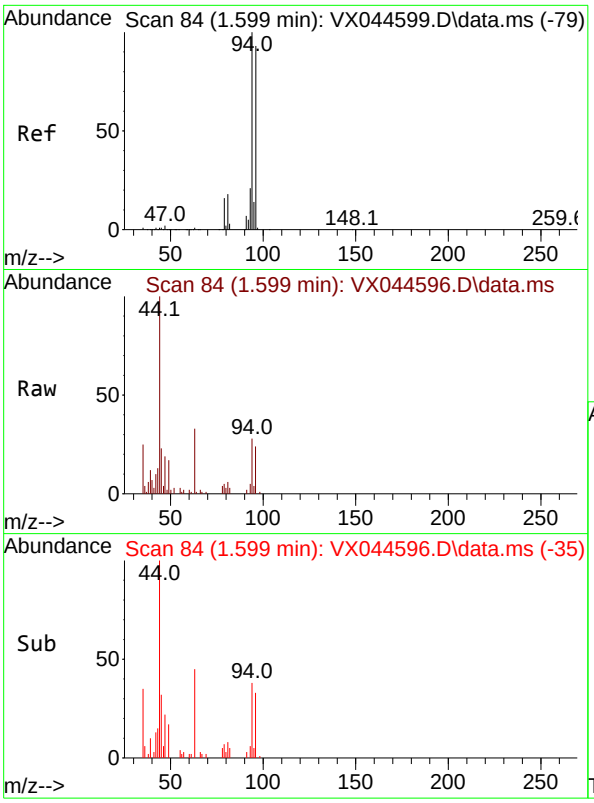


#4
Vinyl Chloride
Concen: 0.930 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 62 Resp: 2161

Ion	Ratio	Lower	Upper
62	100		
64	33.4	26.0	39.0



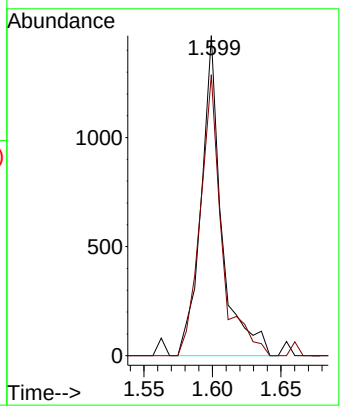


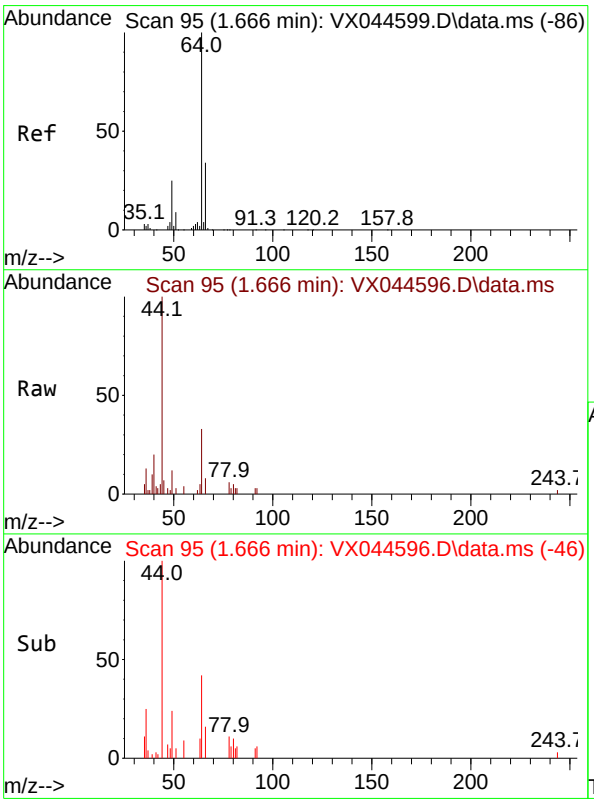
#5
Bromomethane
Concen: 1.272 ug/l
RT: 1.599 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 94 Resp: 1531

Ion	Ratio	Lower	Upper
94	100		
96	87.8	74.6	112.0

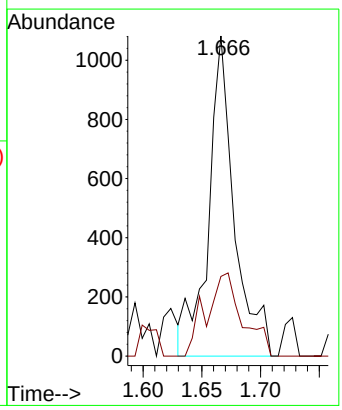


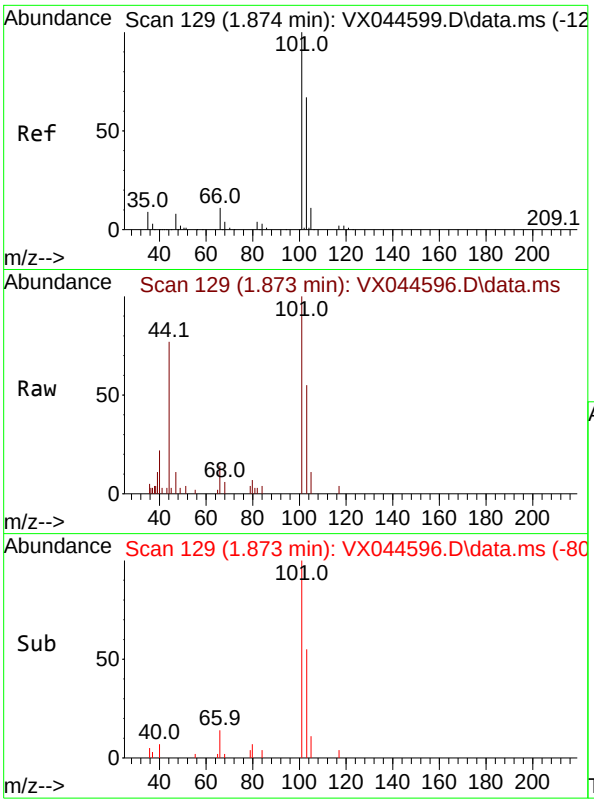


#6
Chloroethane
Concen: 1.343 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.000 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 64 Resp: 1657

Ion	Ratio	Lower	Upper
64	100		
66	24.9	27.3	40.9#



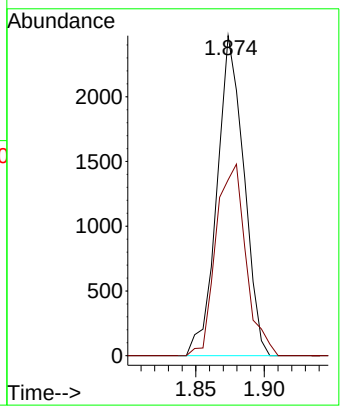


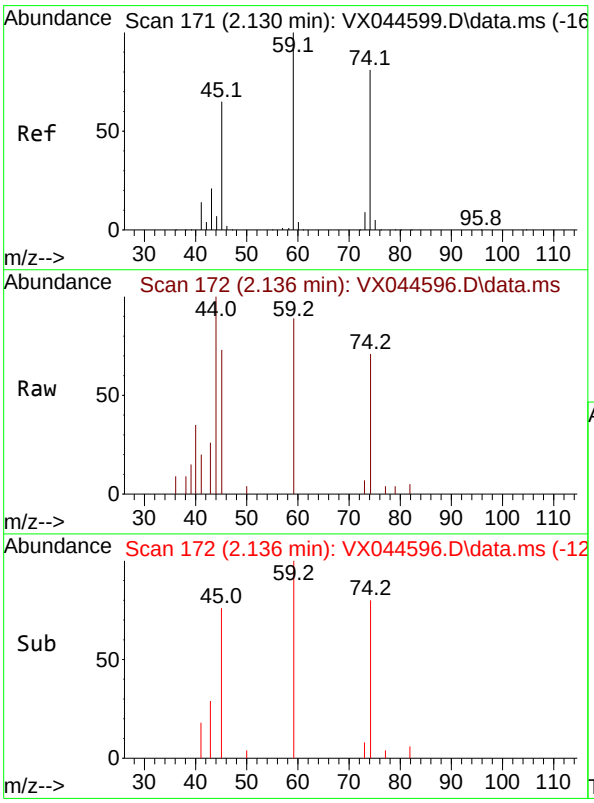
#7
Trichlorofluoromethane
Concen: 0.975 ug/l
RT: 1.873 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:101 Resp: 3373

Ion	Ratio	Lower	Upper
101	100		
103	55.0	53.3	79.9

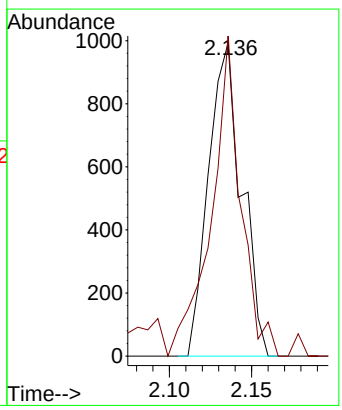


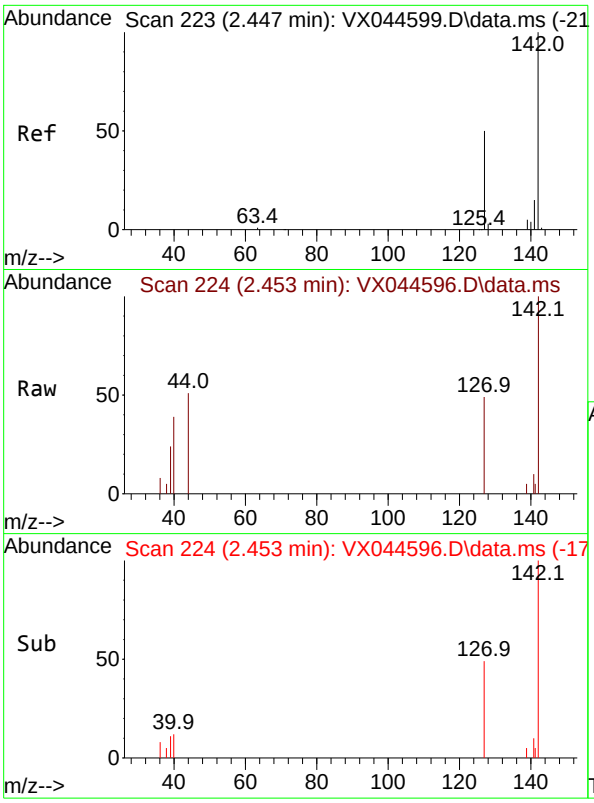


#8
Diethyl Ether
Concen: 1.136 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.006 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 74 Resp: 1388

Ion	Ratio	Lower	Upper
74	100		
45	90.7	41.7	125.1



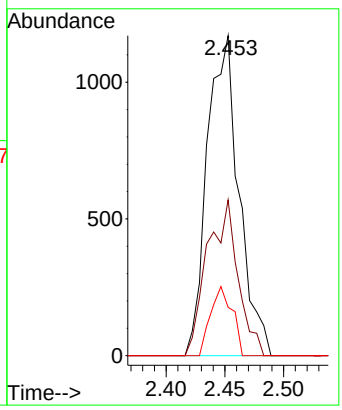


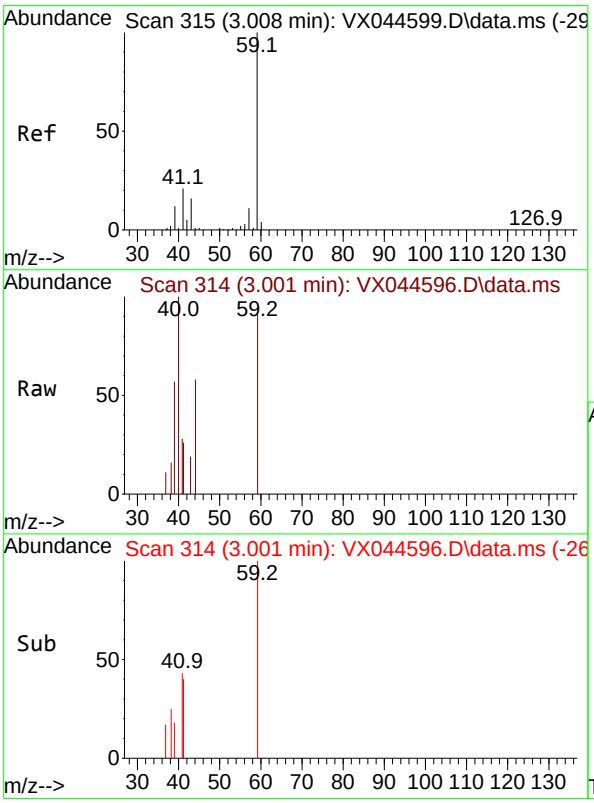
#10
Methyl Iodide
Concen: 0.794 ug/l
RT: 2.453 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:142 Resp: 2197

Ion	Ratio	Lower	Upper
142	100		
127	47.2	41.9	62.9
141	14.7	11.8	17.6

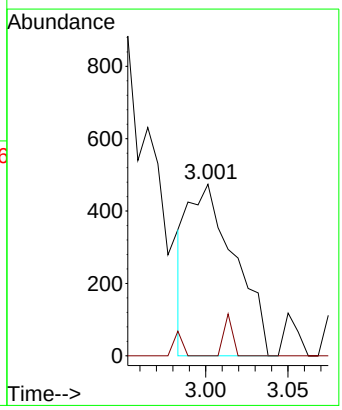


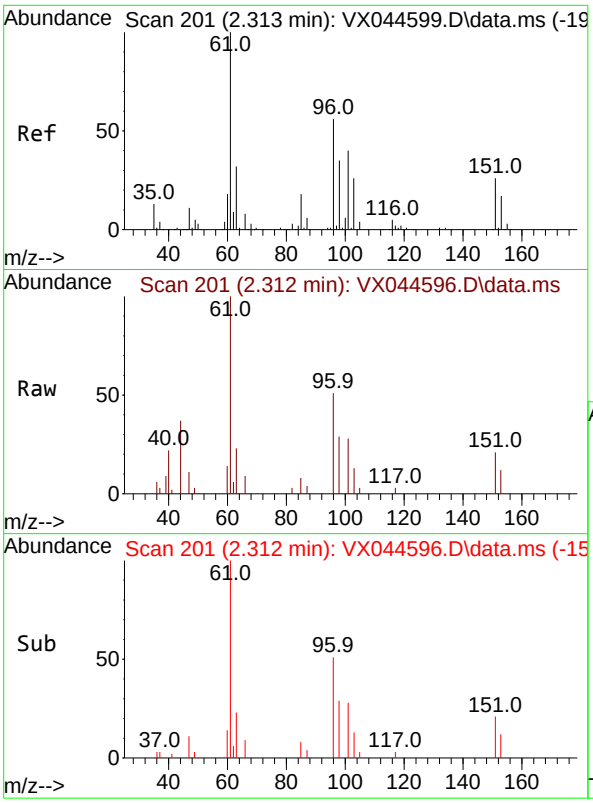


#11
Tert butyl alcohol
Concen: 2.783 ug/l
RT: 3.001 min Scan# 314
Delta R.T. -0.006 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 59 Resp: 949

Ion	Ratio	Lower	Upper
59	100		
57	4.4	8.6	12.8#



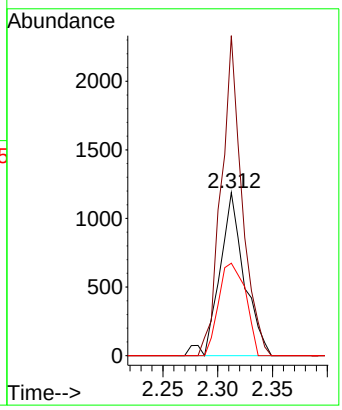


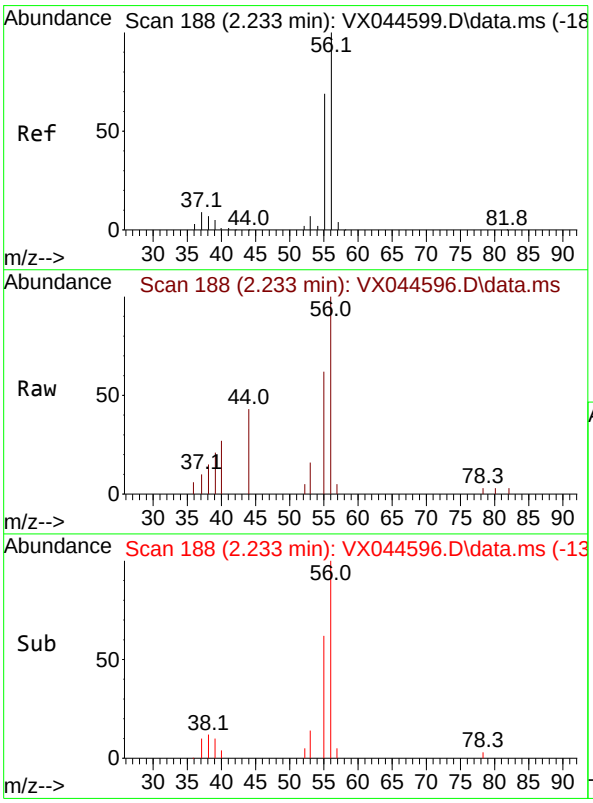
#12
1,1-Dichloroethene
Concen: 0.963 ug/l
RT: 2.312 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 96 Resp: 1851

Ion	Ratio	Lower	Upper
96	100		
61	196.3	143.3	214.9
98	56.7	50.6	76.0

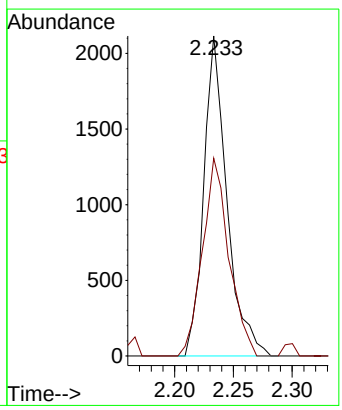


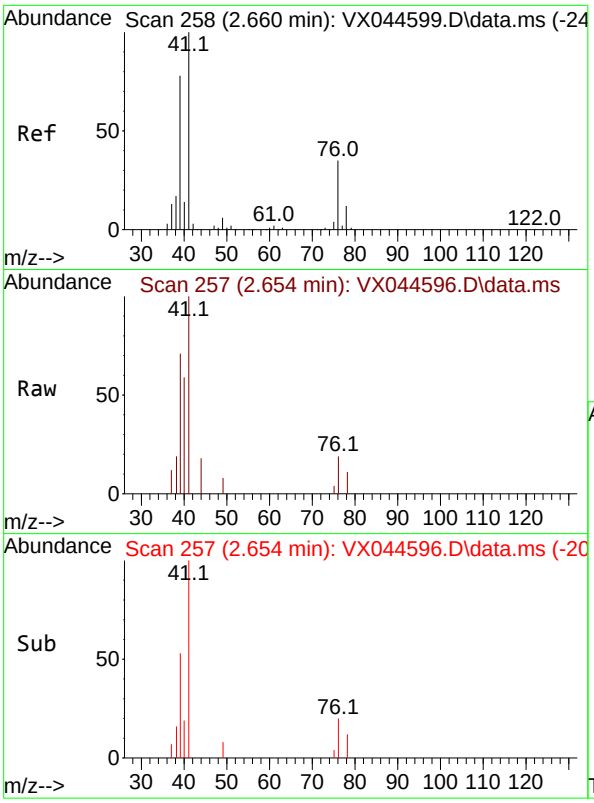


#13
Acrolein
Concen: 6.425 ug/l
RT: 2.233 min Scan# 188
Delta R.T. -0.000 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 56 Resp: 2897

Ion	Ratio	Lower	Upper
56	100		
55	70.6	55.8	83.8



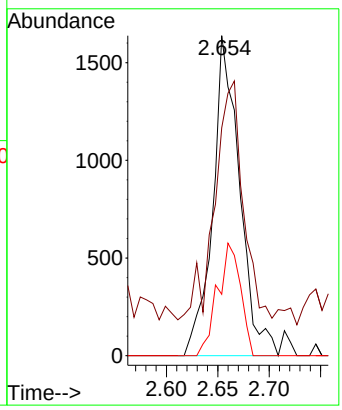


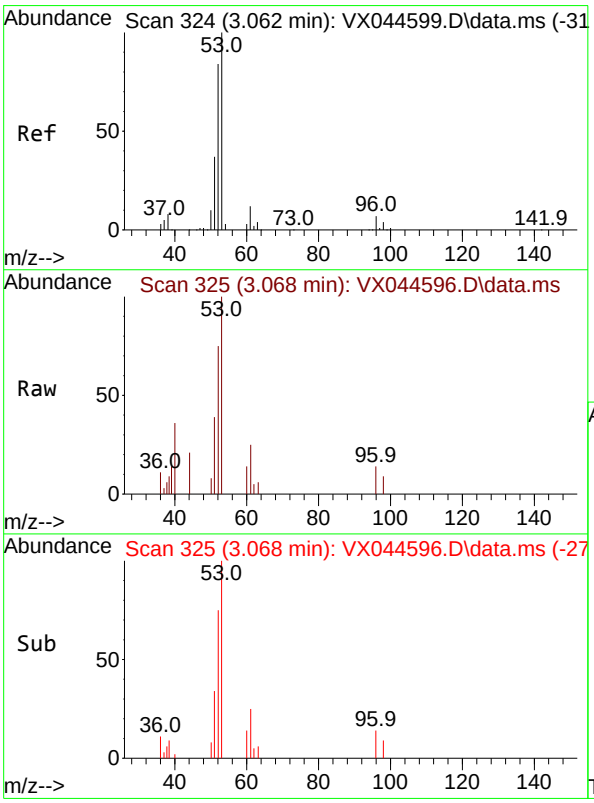
#14
Allyl chloride
Concen: 0.930 ug/l
RT: 2.654 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 41 Resp: 2973

Ion	Ratio	Lower	Upper
41	100		
39	77.9	60.2	90.2
76	30.0	25.9	38.9

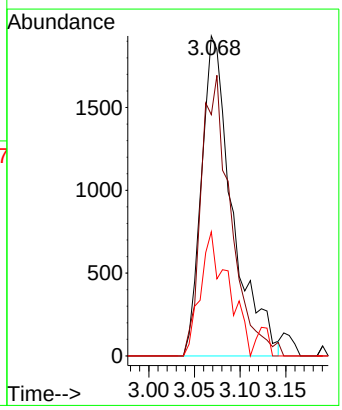


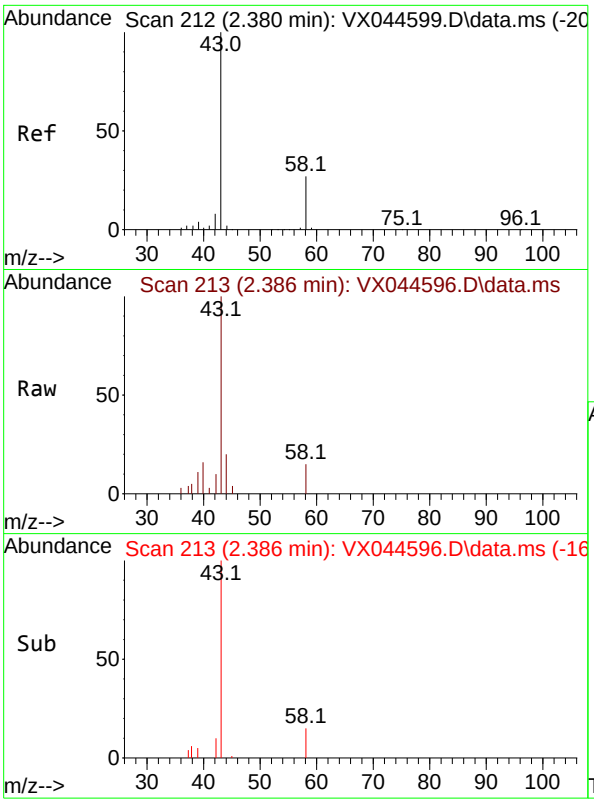


#15
Acrylonitrile
Concen: 4.629 ug/l
RT: 3.068 min Scan# 325
Delta R.T. 0.006 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 53 Resp: 4546

Ion	Ratio	Lower	Upper
53	100		
52	83.8	67.0	100.6
51	35.1	29.4	44.0



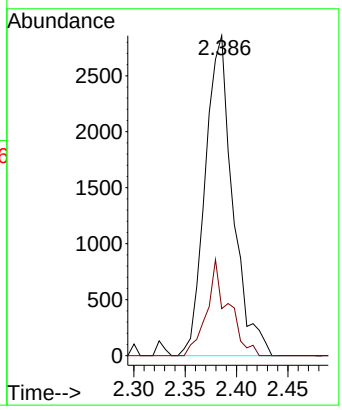


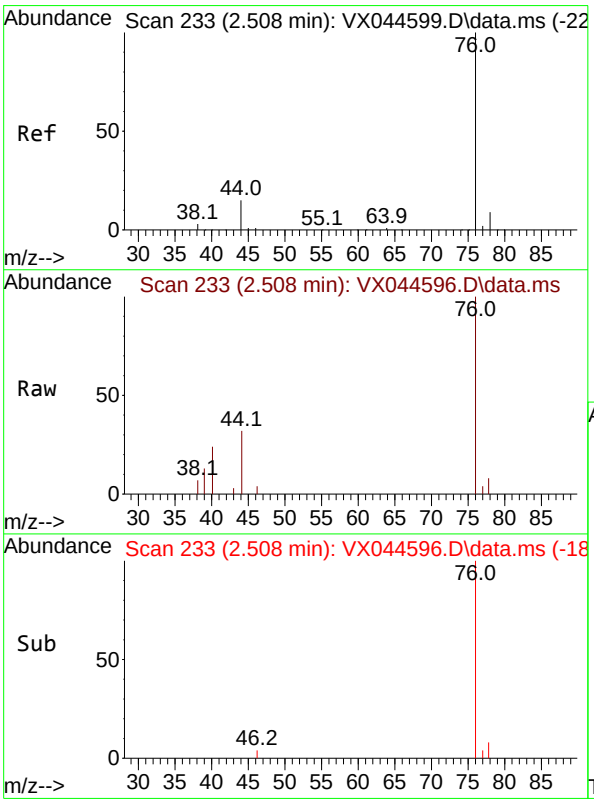
#16
Acetone
Concen: 6.107 ug/l
RT: 2.386 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 5331

Ion	Ratio	Lower	Upper
43	100		
58	14.7	22.0	33.0#

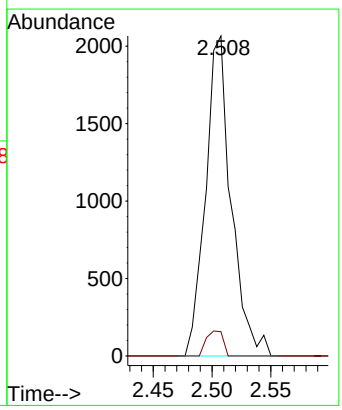


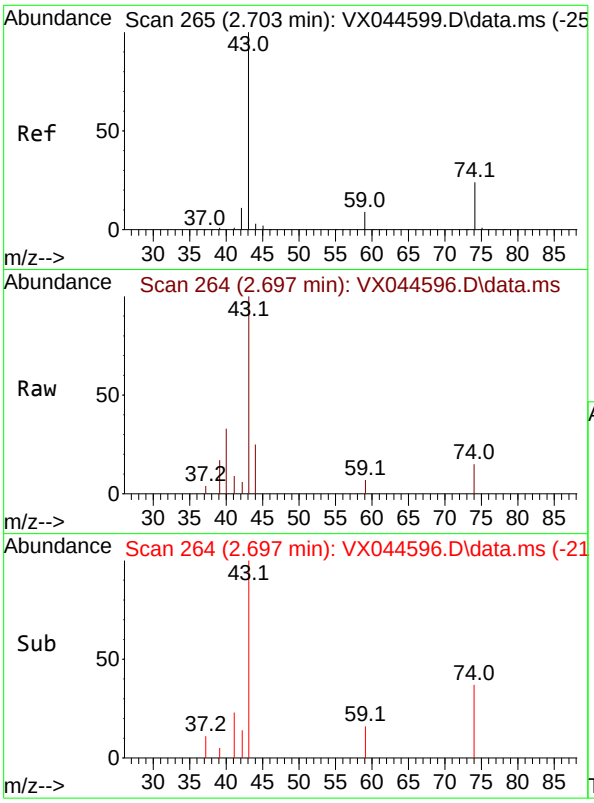


#17
Carbon Disulfide
Concen: 0.785 ug/l
RT: 2.508 min Scan# 233
Delta R.T. -0.000 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 76 Resp: 3121

Ion	Ratio	Lower	Upper
76	100		
78	7.6	7.1	10.7



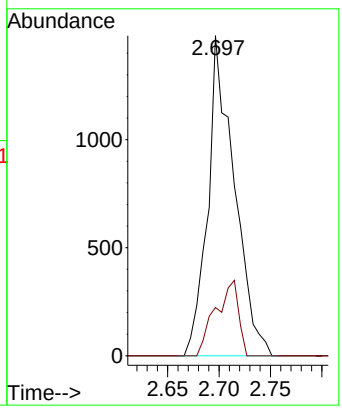


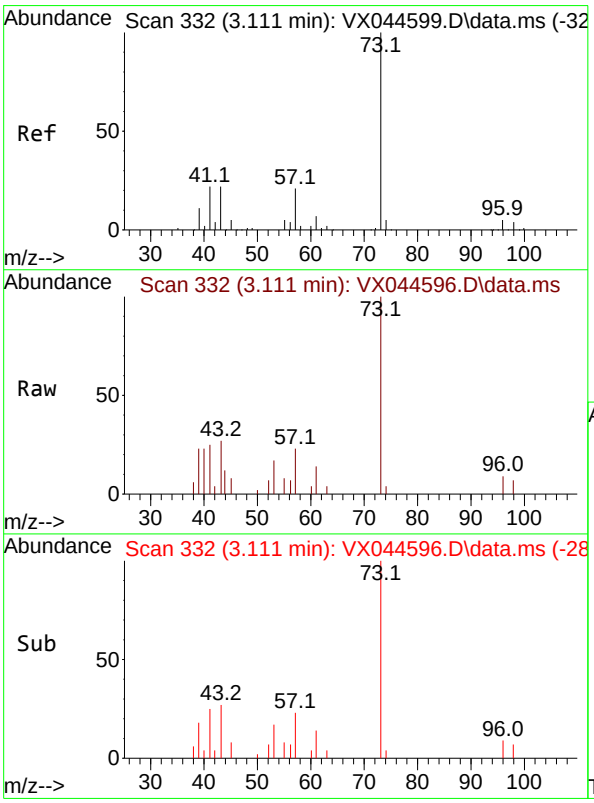
#18
Methyl Acetate
Concen: 1.029 ug/l
RT: 2.697 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 2652

Ion	Ratio	Lower	Upper
43	100		
74	20.4	19.3	28.9

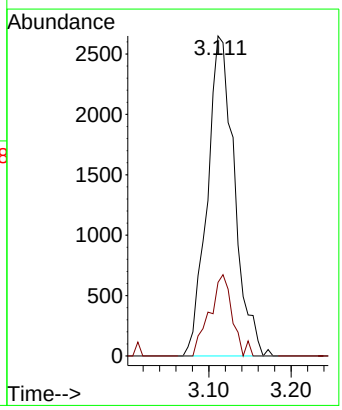


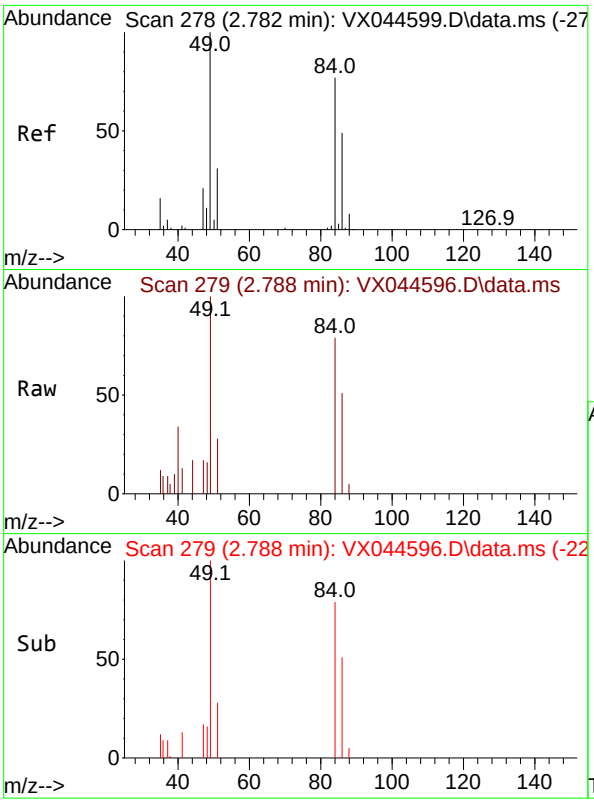


#19
Methyl tert-butyl Ether
Concen: 0.922 ug/l
RT: 3.111 min Scan# 332
Delta R.T. -0.000 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 73 Resp: 6074

Ion	Ratio	Lower	Upper
73	100		
57	23.0	17.0	25.4



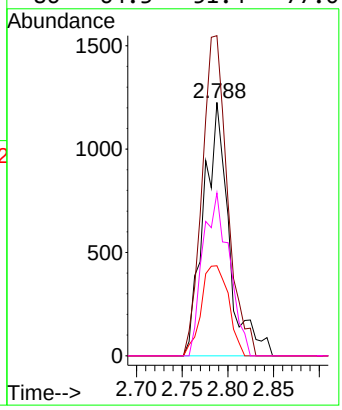


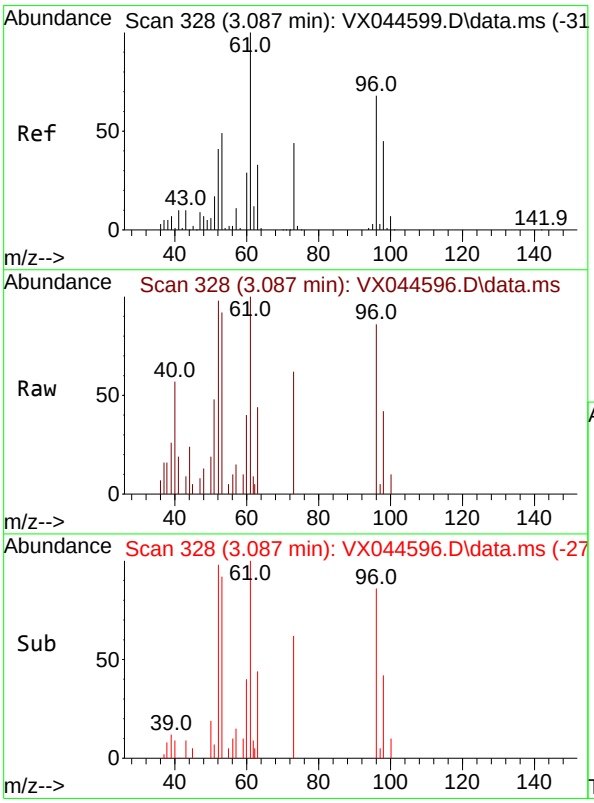
#20
Methylene Chloride
Concen: 1.060 ug/l
RT: 2.788 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 84 Resp: 2360

Ion	Ratio	Lower	Upper
84	100		
49	126.3	104.4	156.6
51	35.6	32.0	48.0
86	64.3	51.4	77.0

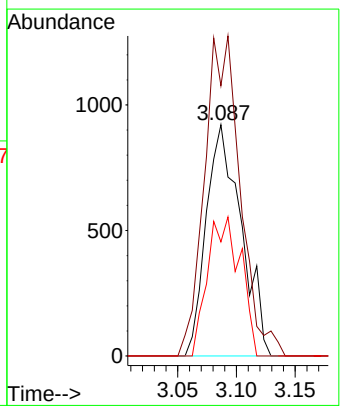


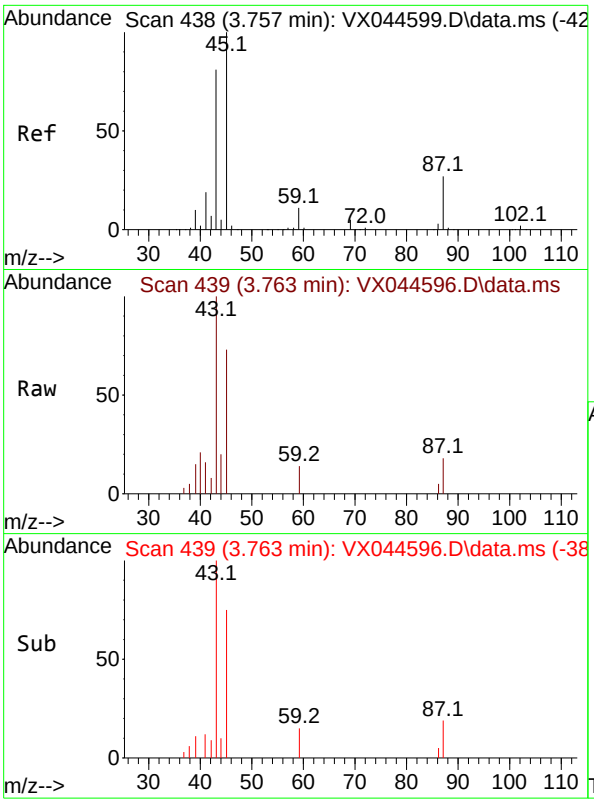


#21
trans-1,2-Dichloroethene
Concen: 0.965 ug/l
RT: 3.087 min Scan# 328
Delta R.T. -0.000 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 96 Resp: 1904

Ion	Ratio	Lower	Upper
96	100		
61	116.9	118.5	177.7#
98	49.4	53.4	80.0#



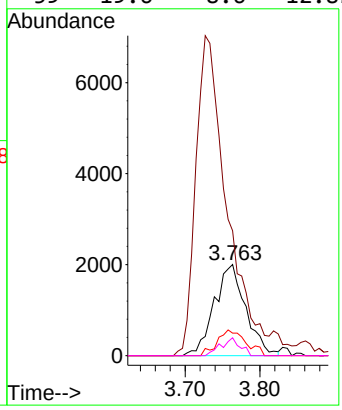


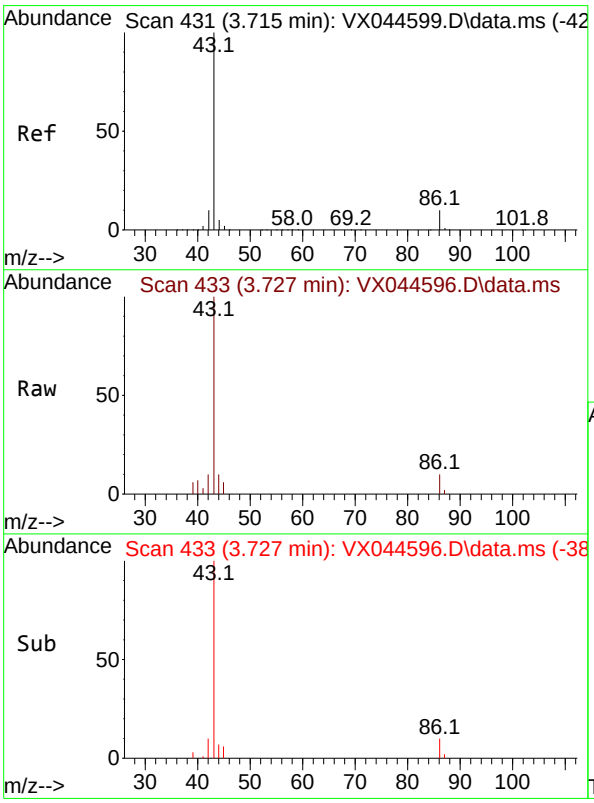
#22
Diisopropyl ether
Concen: 0.894 ug/l
RT: 3.763 min Scan# 4
Delta R.T. 0.006 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 45 Resp: 5870

Ion	Ratio	Lower	Upper
45	100		
43	132.1	64.6	97.0#
87	24.7	21.8	32.8
59	19.6	8.6	12.8#

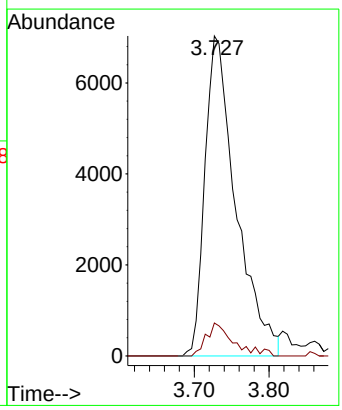


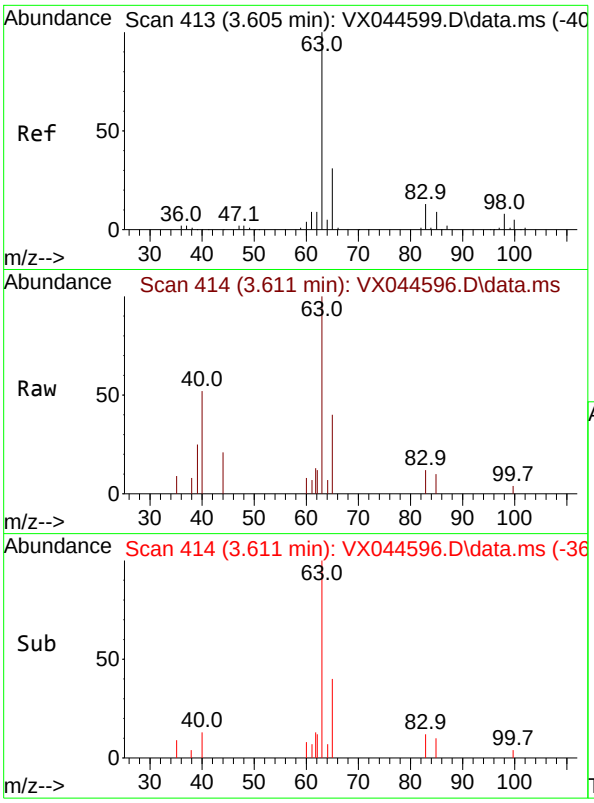


#23
Vinyl Acetate
Concen: 3.818 ug/l
RT: 3.727 min Scan# 433
Delta R.T. 0.012 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 43 Resp: 20280

Ion	Ratio	Lower	Upper
43	100		
86	10.3	8.1	12.1



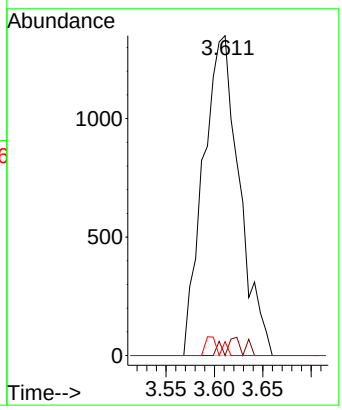


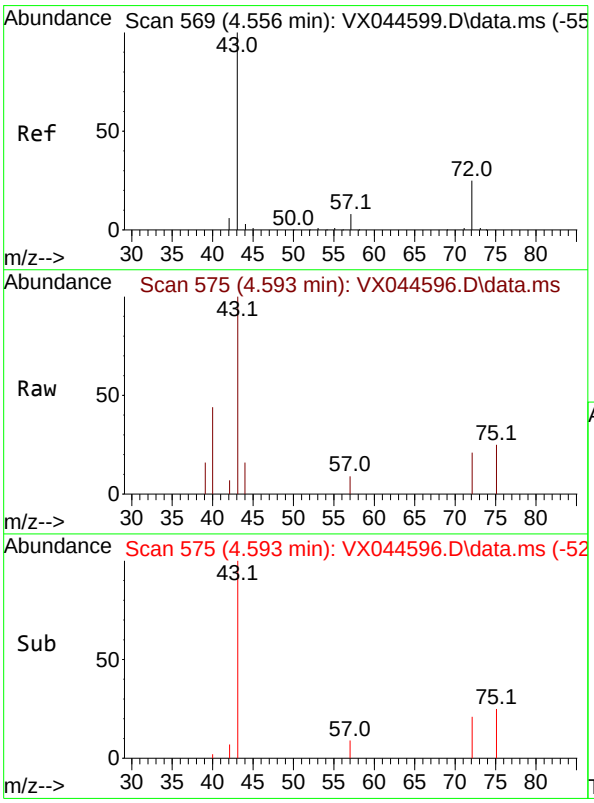
#24
1,1-Dichloroethane
Concen: 0.913 ug/l
RT: 3.611 min Scan# 4
Delta R.T. 0.006 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 63 Resp: 3494

Ion	Ratio	Lower	Upper
63	100		
98	0.0	3.8	11.4#
100	4.4	2.4	7.2

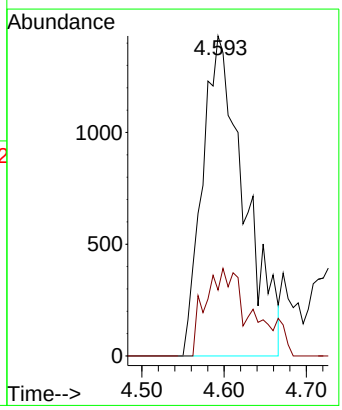


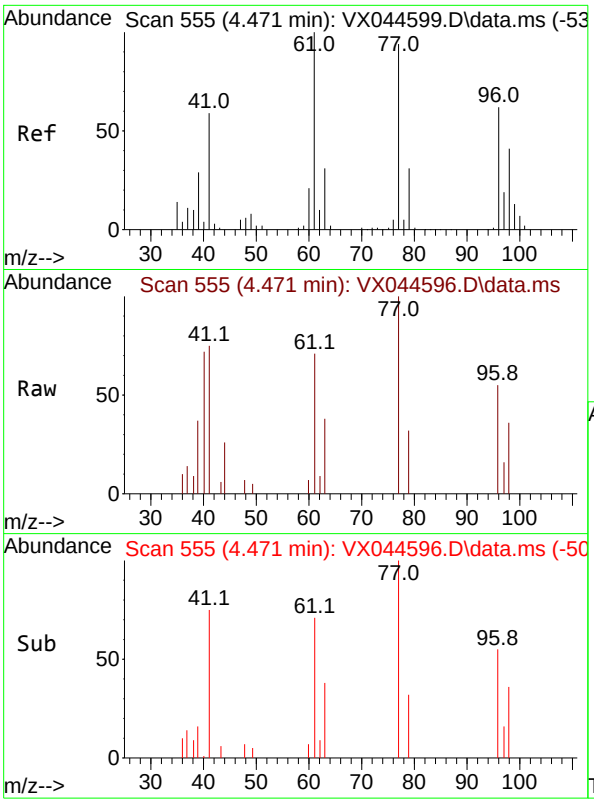


#25
2-Butanone
Concen: 4.020 ug/l
RT: 4.593 min Scan# 575
Delta R.T. 0.036 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 43 Resp: 5065

Ion	Ratio	Lower	Upper
43	100		
72	20.6	20.2	30.2



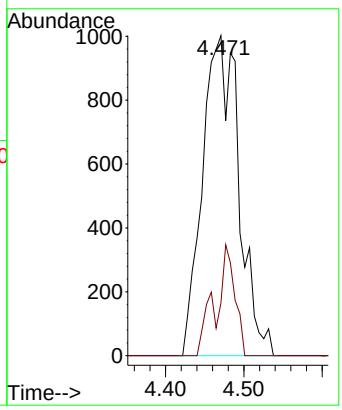


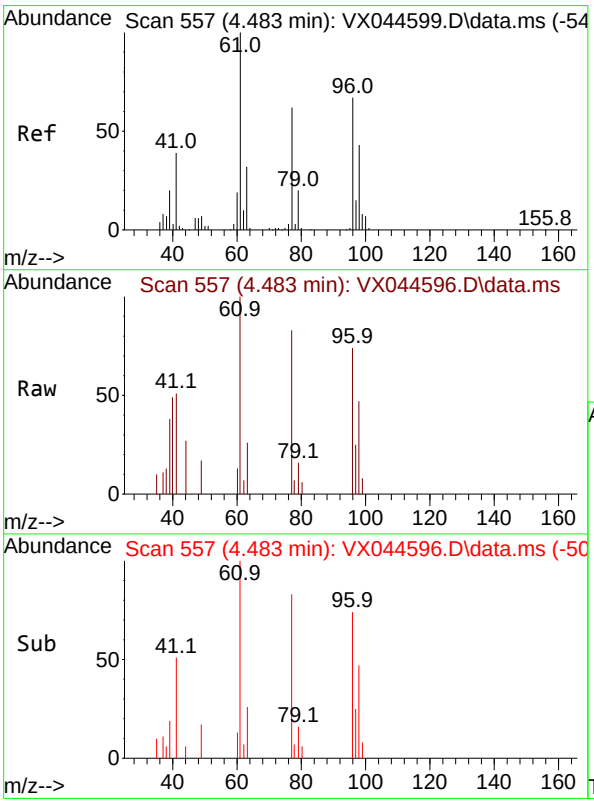
#26
2,2-Dichloropropane
Concen: 0.979 ug/l
RT: 4.471 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 77 Resp: 3241

Ion	Ratio	Lower	Upper
77	100		
97	12.5	10.7	32.1

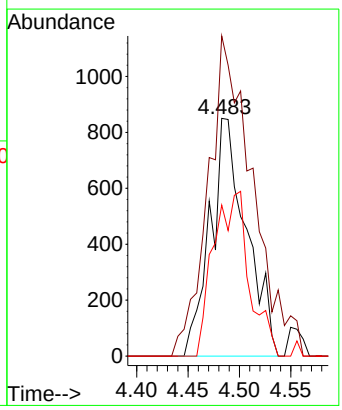


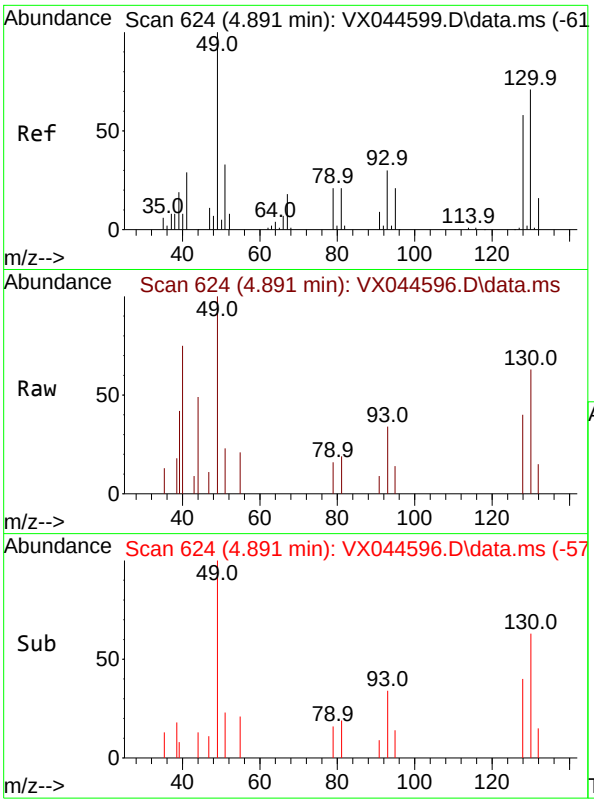


#27
cis-1,2-Dichloroethene
Concen: 0.859 ug/l
RT: 4.483 min Scan# 557
Delta R.T. -0.000 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 96 Resp: 2066

Ion	Ratio	Lower	Upper
96	100		
61	166.8	0.0	302.8
98	68.8	0.0	130.0



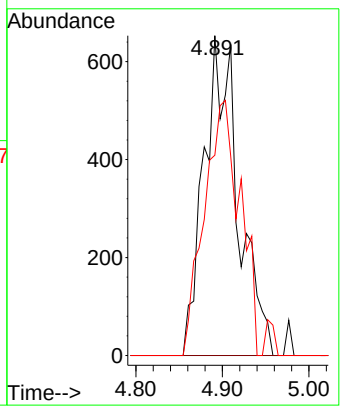


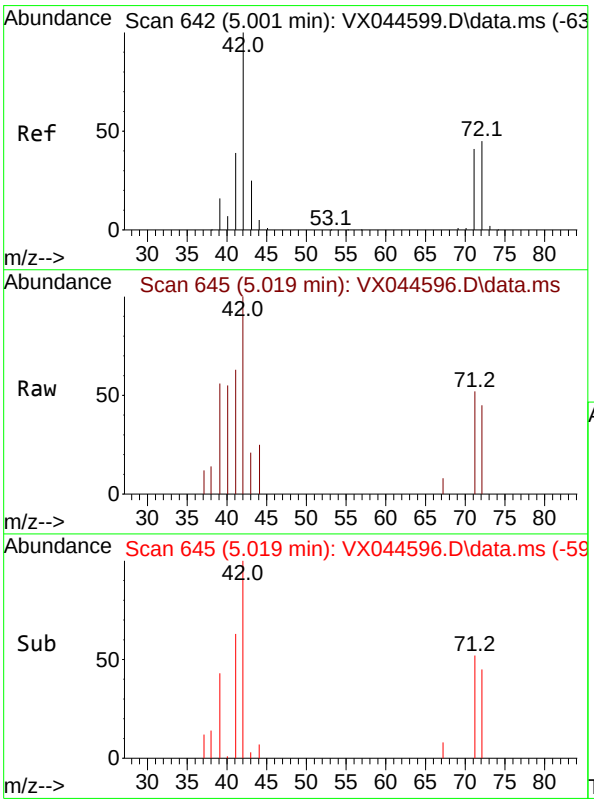
#28
Bromochloromethane
Concen: 1.005 ug/l
RT: 4.891 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 49 Resp: 1791

Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.2
130	83.9	58.8	88.2

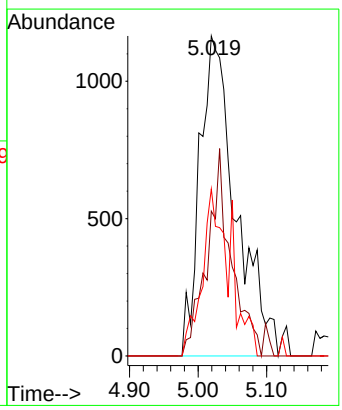


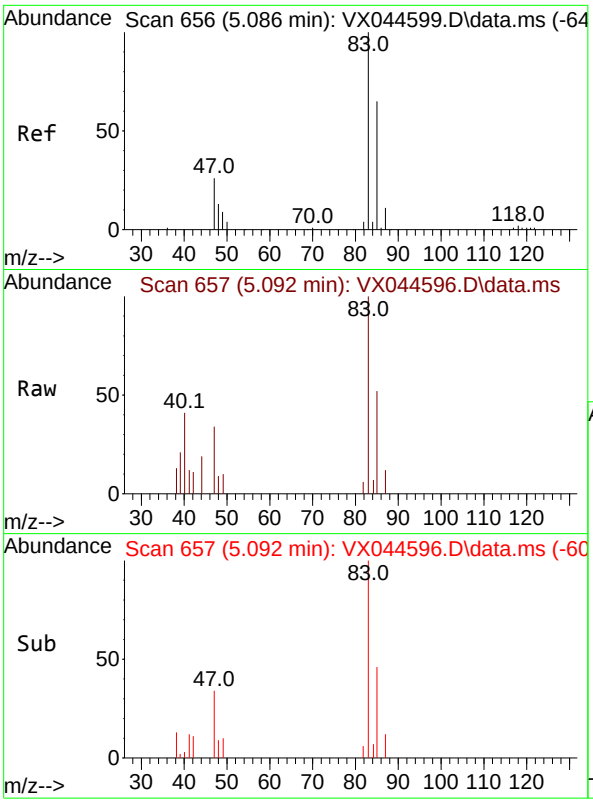


#29
Tetrahydrofuran
Concen: 4.941 ug/l
RT: 5.019 min Scan# 645
Delta R.T. 0.018 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 42 Resp: 4263

Ion	Ratio	Lower	Upper
42	100		
72	43.0	36.1	54.1
71	40.4	33.0	49.6



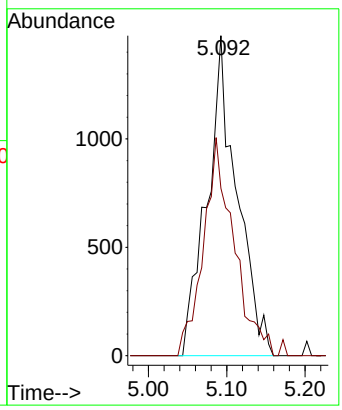


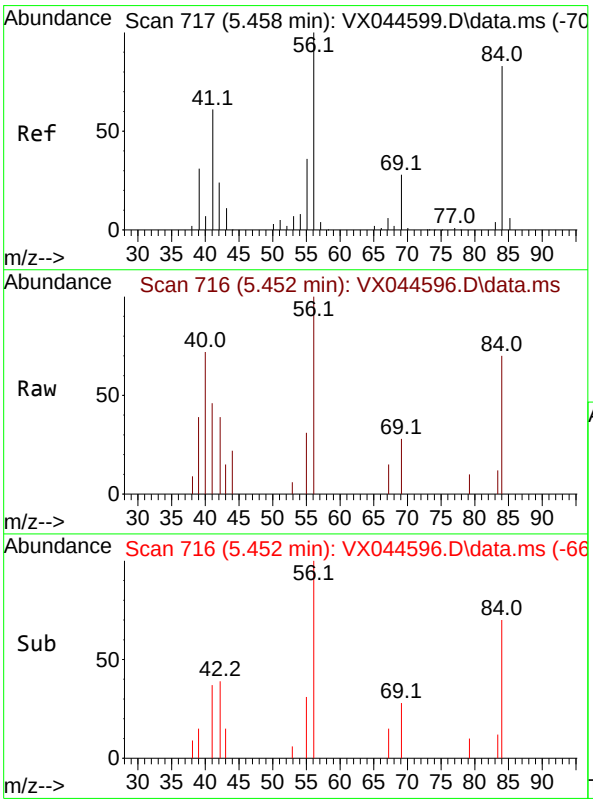
#30
Chloroform
Concen: 0.951 ug/l
RT: 5.092 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 83 Resp: 3923

Ion	Ratio	Lower	Upper
83	100		
85	52.3	52.3	78.5#

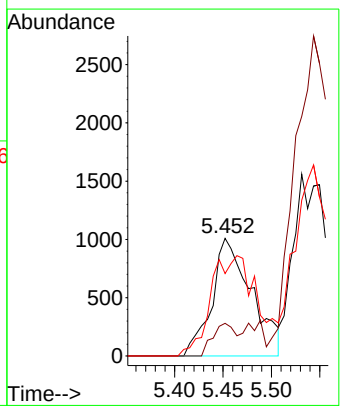


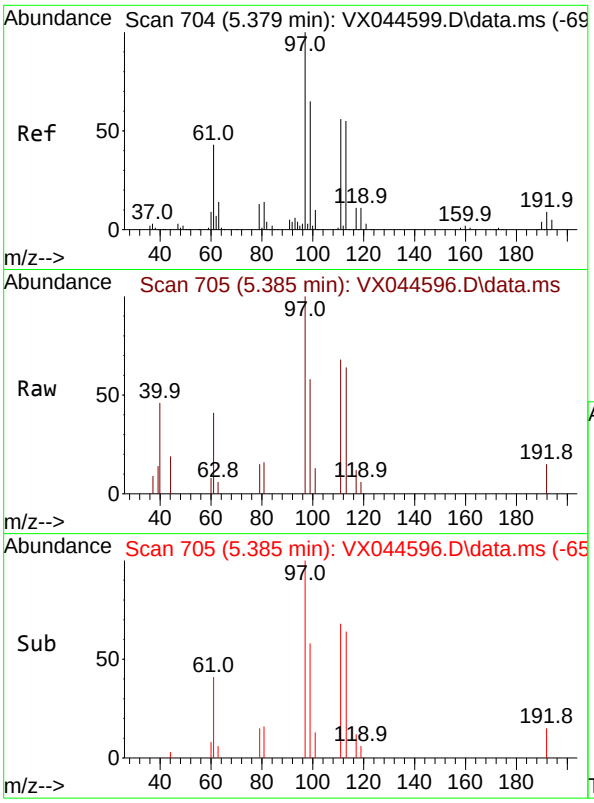


#31
Cyclohexane
Concen: 0.915 ug/l
RT: 5.452 min Scan# 716
Delta R.T. -0.006 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 56 Resp: 2876

Ion	Ratio	Lower	Upper
56	100		
69	27.7	22.2	33.4
84	70.0	66.6	100.0



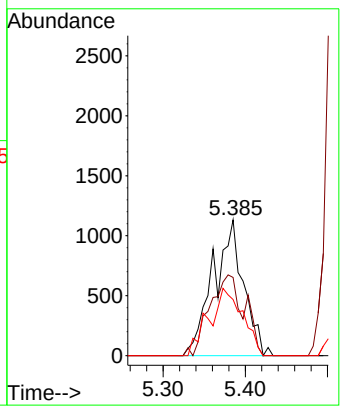


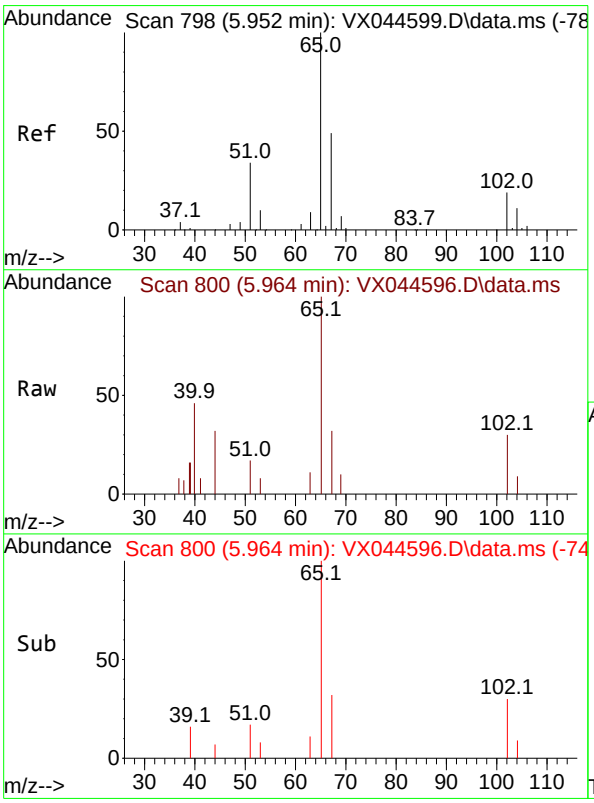
#32
1,1,1-Trichloroethane
Concen: 0.839 ug/l
RT: 5.385 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 97 Resp: 2914

Ion	Ratio	Lower	Upper
97	100		
99	0.0	52.1	78.1#
61	54.8	36.8	55.2

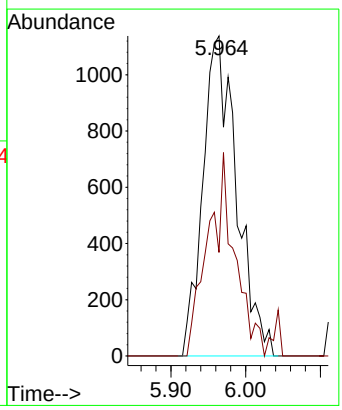


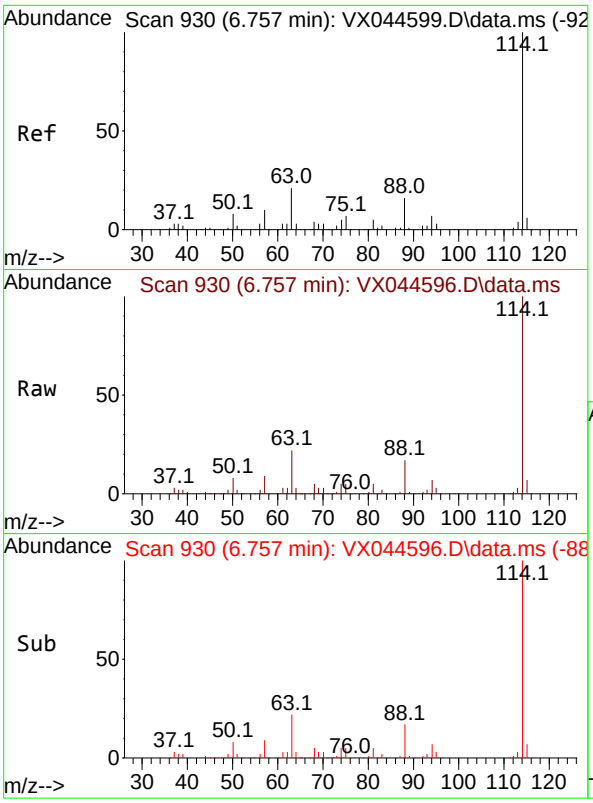


#33
1,2-Dichloroethane-d4
Concen: 1.291 ug/l
RT: 5.964 min Scan# 800
Delta R.T. 0.012 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 65 Resp: 3576

Ion	Ratio	Lower	Upper
65	100		
67	50.4	0.0	99.0



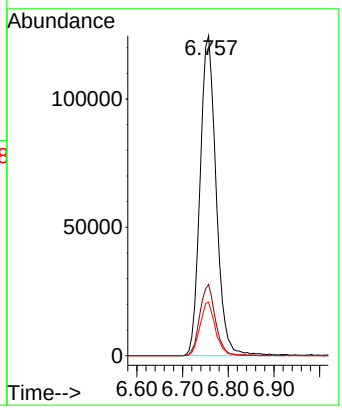


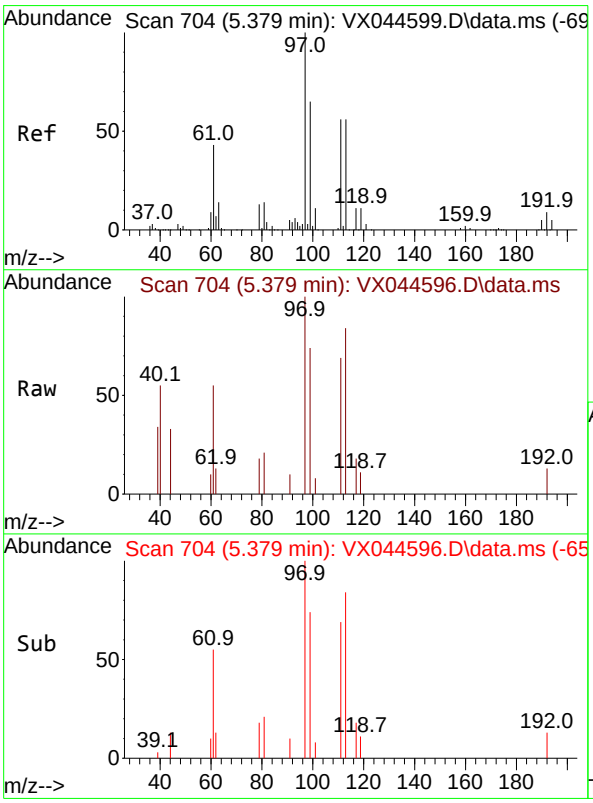
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:114 Resp: 304446

Ion	Ratio	Lower	Upper
114	100		
63	22.2	0.0	42.6
88	16.8	0.0	32.6

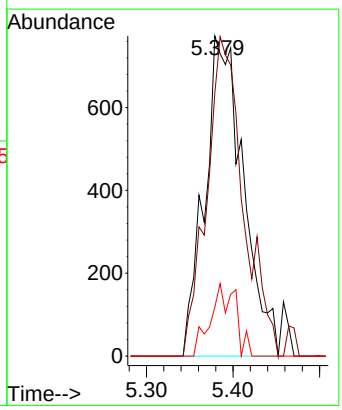


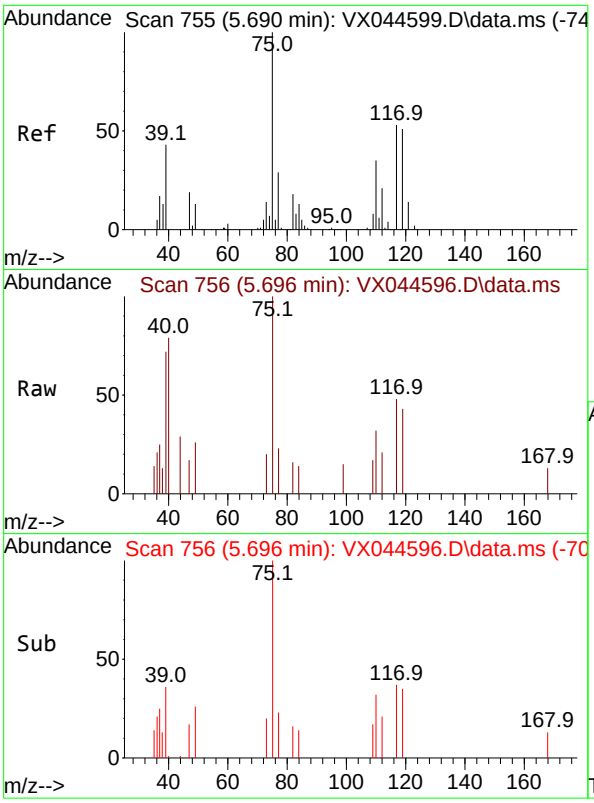


#35
Dibromofluoromethane
Concen: 1.145 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion:113 Resp: 2391

Ion	Ratio	Lower	Upper
113	100		
111	94.5	83.3	124.9
192	14.7	14.3	21.5



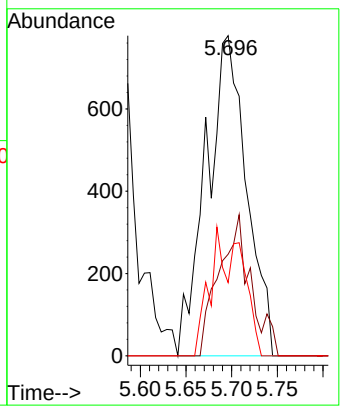


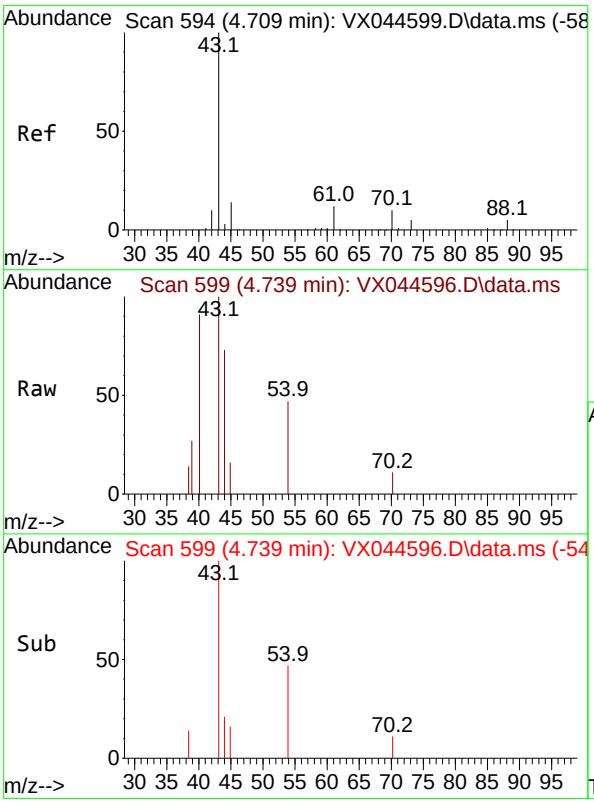
#36
1,1-Dichloropropene
Concen: 0.887 ug/l
RT: 5.696 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 75 Resp: 2395

Ion	Ratio	Lower	Upper
75	100		
110	34.6	17.3	51.9
77	14.6	24.7	37.1#

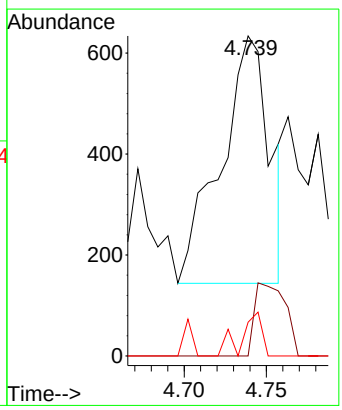


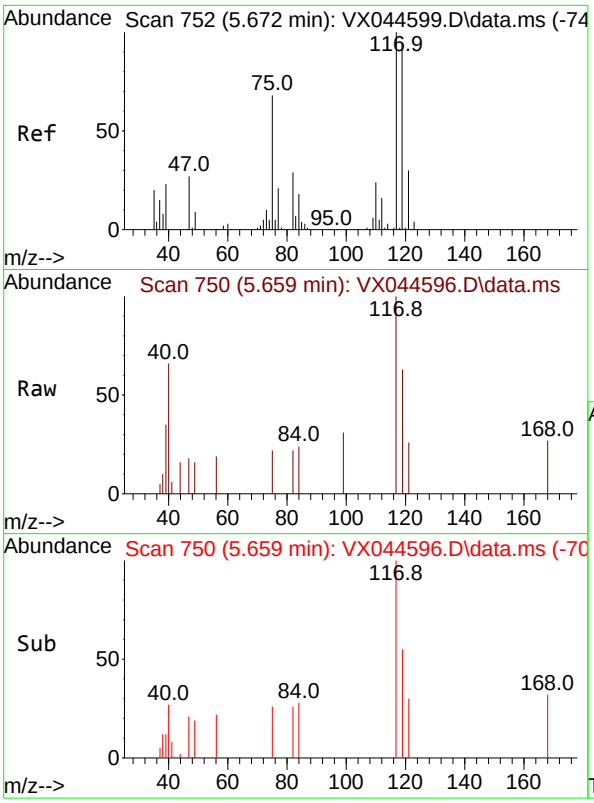


#37
Ethyl Acetate
Concen: 0.367 ug/l
RT: 4.739 min Scan# 599
Delta R.T. 0.030 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 43 Resp: 1012

Ion	Ratio	Lower	Upper
43	100		
61	18.4	9.9	14.9#
70	7.5	8.0	12.0#



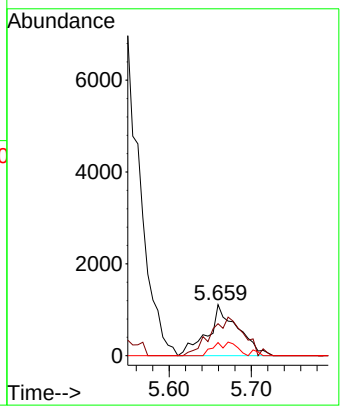


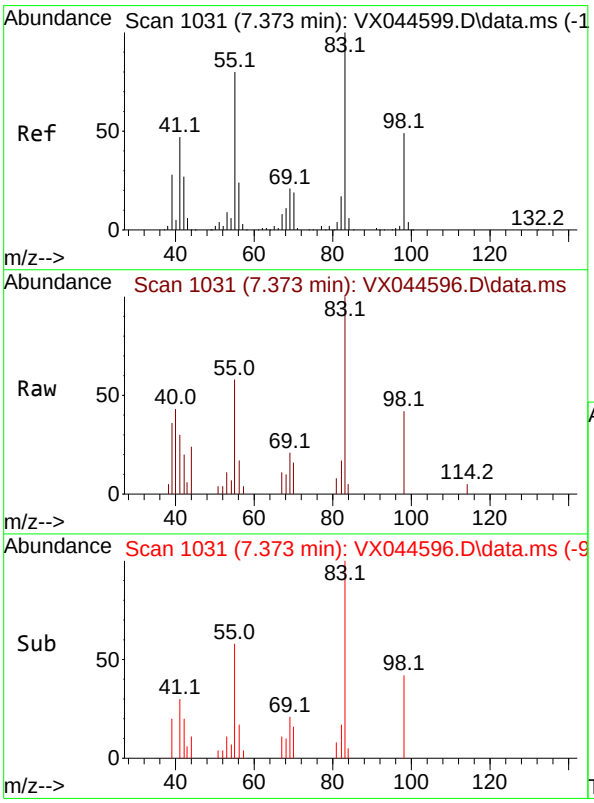
#38
Carbon Tetrachloride
Concen: 0.949 ug/l
RT: 5.659 min Scan# 7
Delta R.T. -0.012 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:117 Resp: 2842

Ion	Ratio	Lower	Upper
117	100		
119	62.8	74.5	111.7#
121	25.8	24.1	36.1

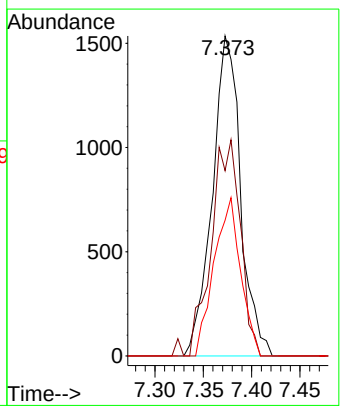


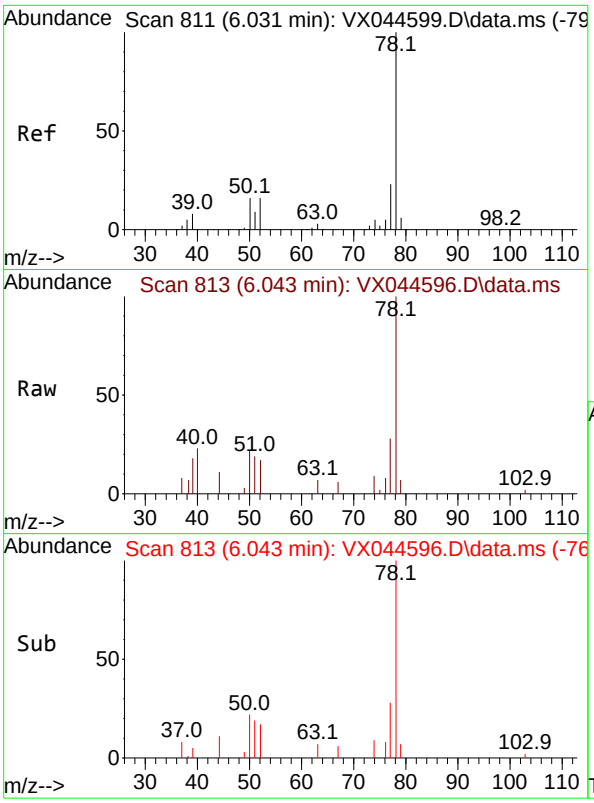


#39
Methylcyclohexane
Concen: 0.906 ug/l
RT: 7.373 min Scan# 1031
Delta R.T. -0.000 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 83 Resp: 3120

Ion	Ratio	Lower	Upper
83	100		
55	57.9	64.1	96.1#
98	42.4	38.9	58.3



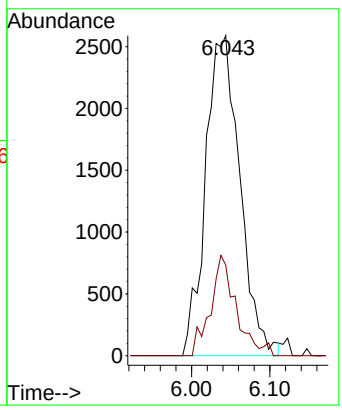


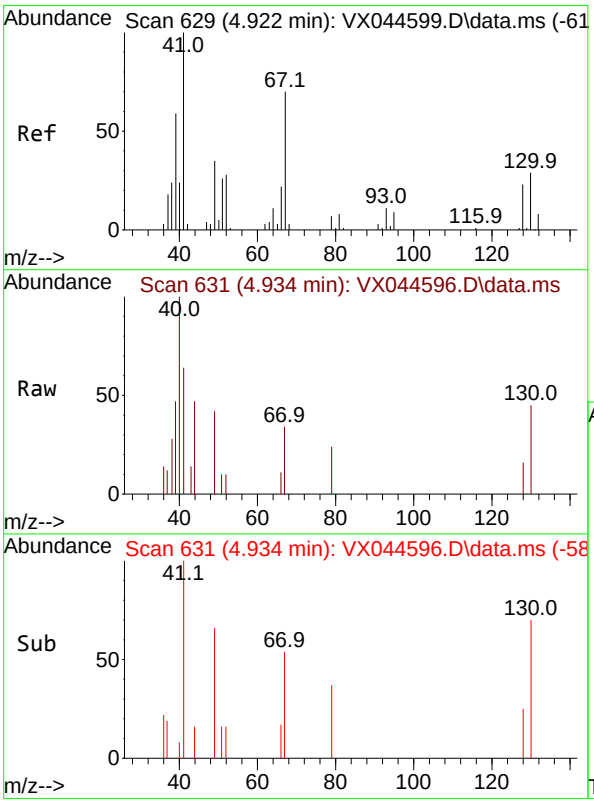
#40
Benzene
Concen: 0.925 ug/l
RT: 6.043 min Scan# 8
Delta R.T. 0.012 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 78 Resp: 7861

Ion	Ratio	Lower	Upper
78	100		
77	28.3	18.8	28.2#

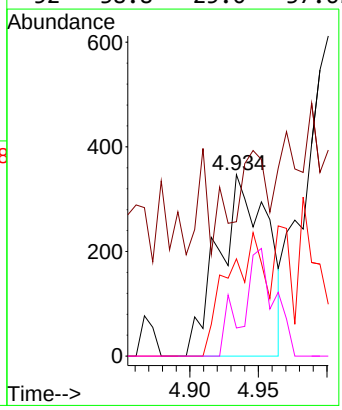


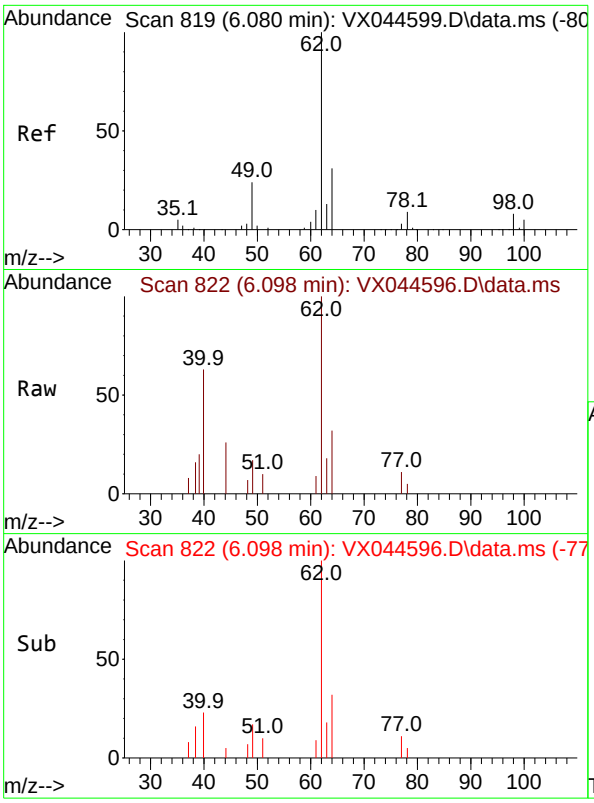


#41
Methacrylonitrile
Concen: 0.579 ug/l
RT: 4.934 min Scan# 631
Delta R.T. 0.012 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 41 Resp: 858

Ion	Ratio	Lower	Upper
41	100		
39	17.0	47.0	70.4#
67	51.9	57.4	86.2#
52	38.8	25.0	37.6#



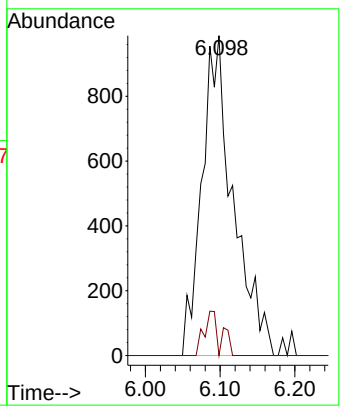


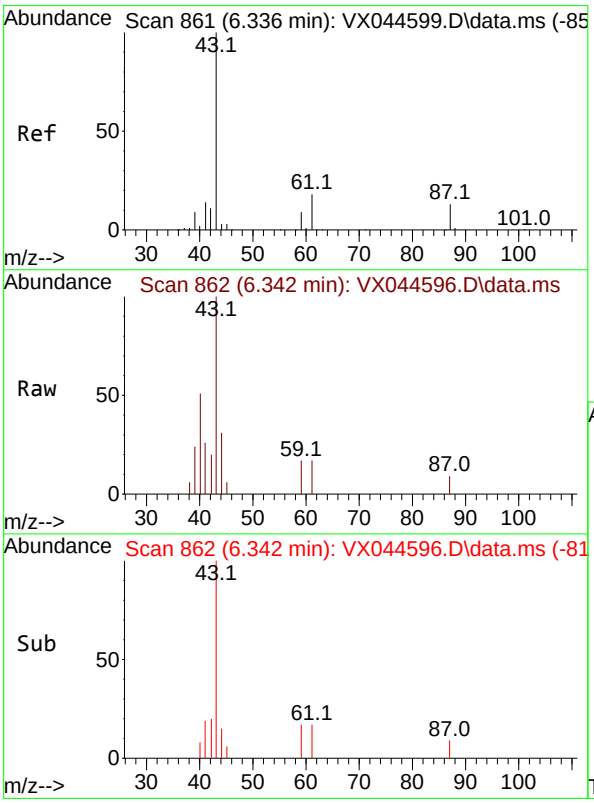
#42
1,2-Dichloroethane
Concen: 0.866 ug/l
RT: 6.098 min Scan# 8
Delta R.T. 0.018 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 62 Resp: 2879

Ion	Ratio	Lower	Upper
62	100		
98	5.2	0.0	15.8

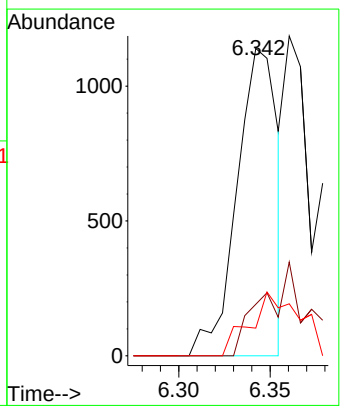


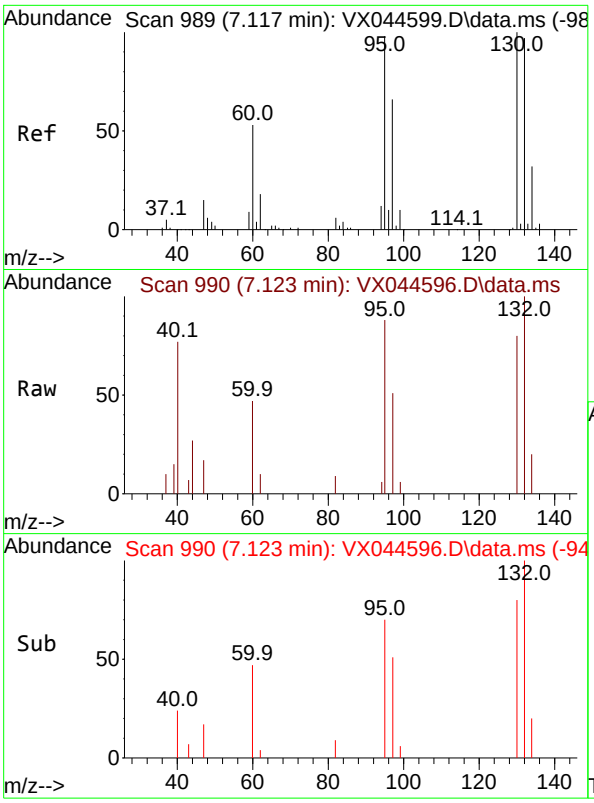


#43
Isopropyl Acetate
Concen: 0.387 ug/l
RT: 6.342 min Scan# 862
Delta R.T. 0.006 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 43 Resp: 1761

Ion	Ratio	Lower	Upper
43	100		
61	32.7	14.5	21.7#
87	25.2	10.1	15.1#



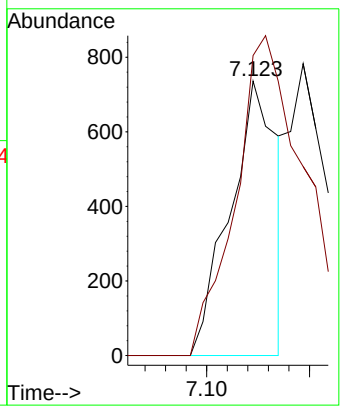


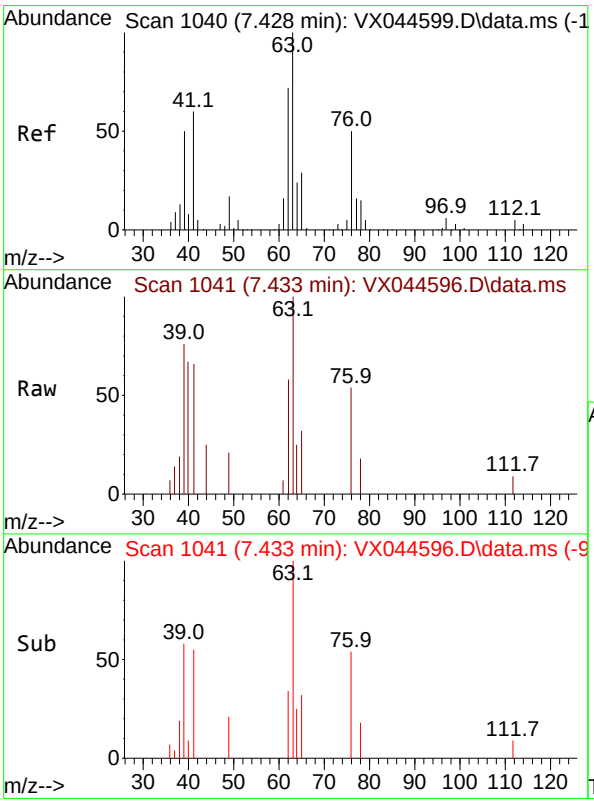
#44
Trichloroethene
Concen: 0.534 ug/l
RT: 7.123 min Scan# 9
Delta R.T. 0.006 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:130 Resp: 1160

Ion	Ratio	Lower	Upper
130	100		
95	109.4	0.0	195.6

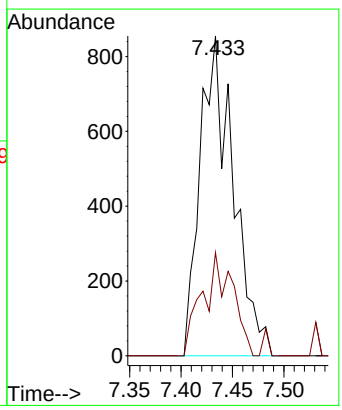


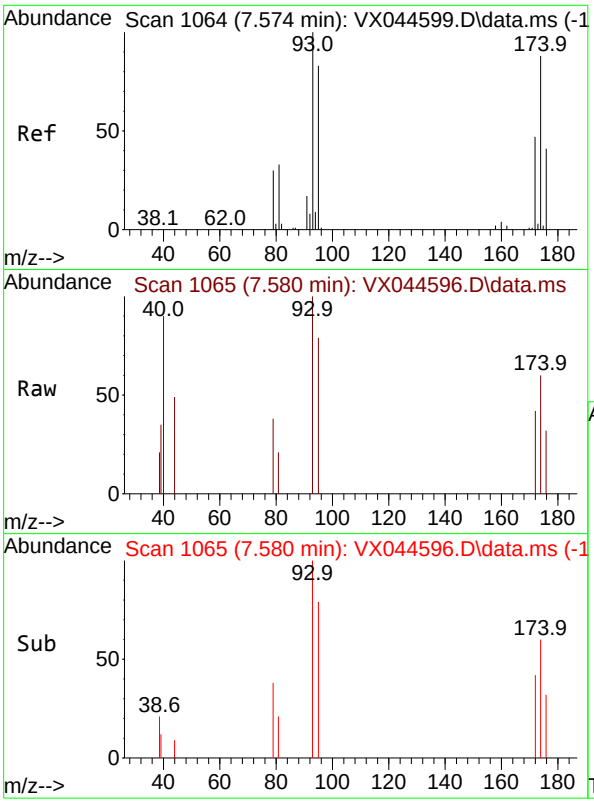


#45
1,2-Dichloropropane
Concen: 0.923 ug/l
RT: 7.433 min Scan# 1041
Delta R.T. 0.006 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 63 Resp: 1913

Ion	Ratio	Lower	Upper
63	100		
65	32.3	23.0	34.4



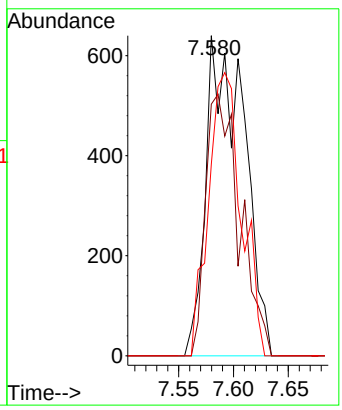


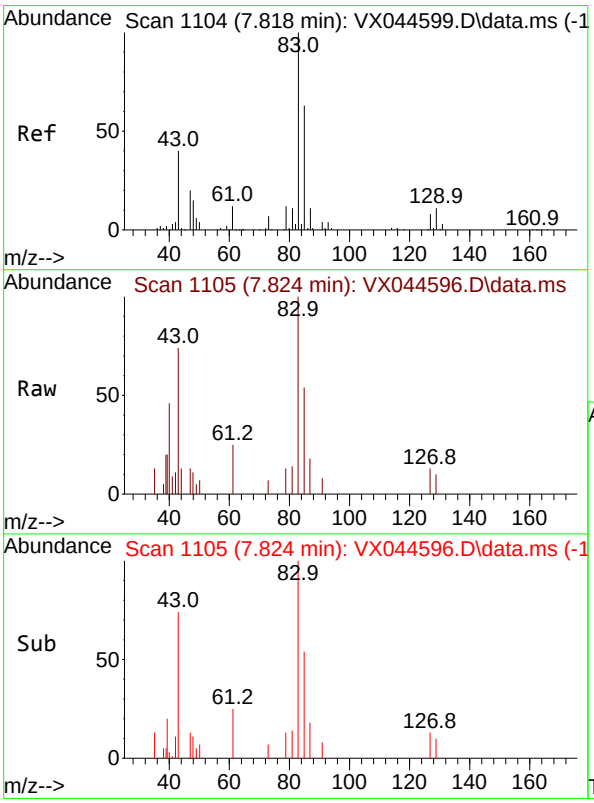
#46
Dibromomethane
Concen: 0.960 ug/l
RT: 7.580 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 93 Resp: 1547

Ion	Ratio	Lower	Upper
93	100		
95	72.9	65.8	98.6
174	76.5	73.4	110.0

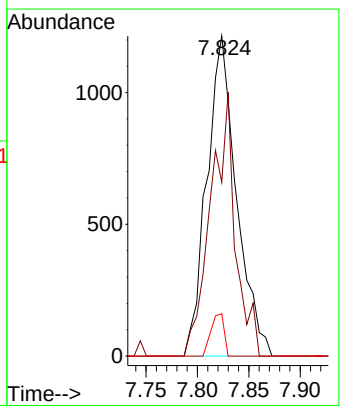


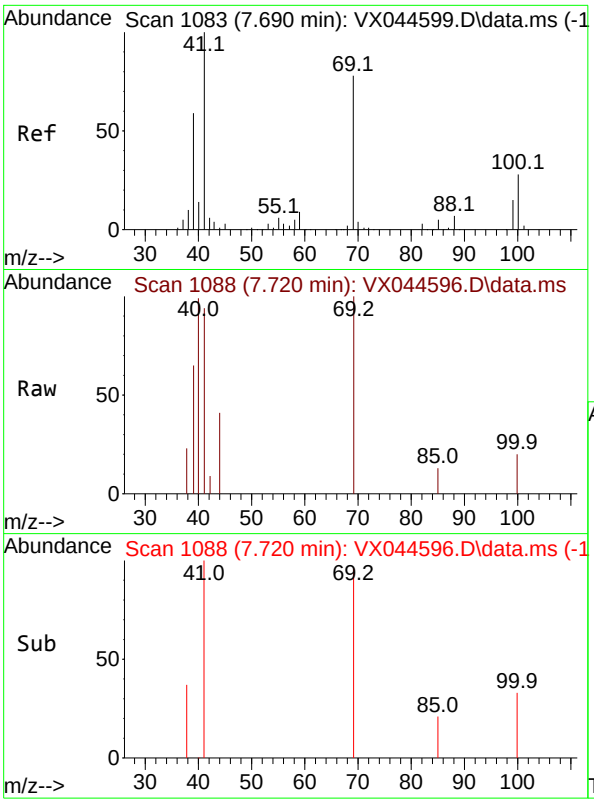


#47
Bromodichloromethane
Concen: 0.833 ug/l
RT: 7.824 min Scan# 1105
Delta R.T. 0.006 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 83 Resp: 2442

Ion	Ratio	Lower	Upper
83	100		
85	54.3	50.4	75.6
127	13.3	6.2	9.4#



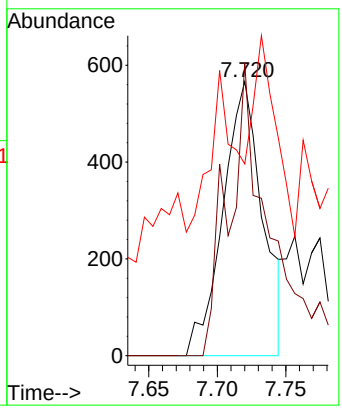


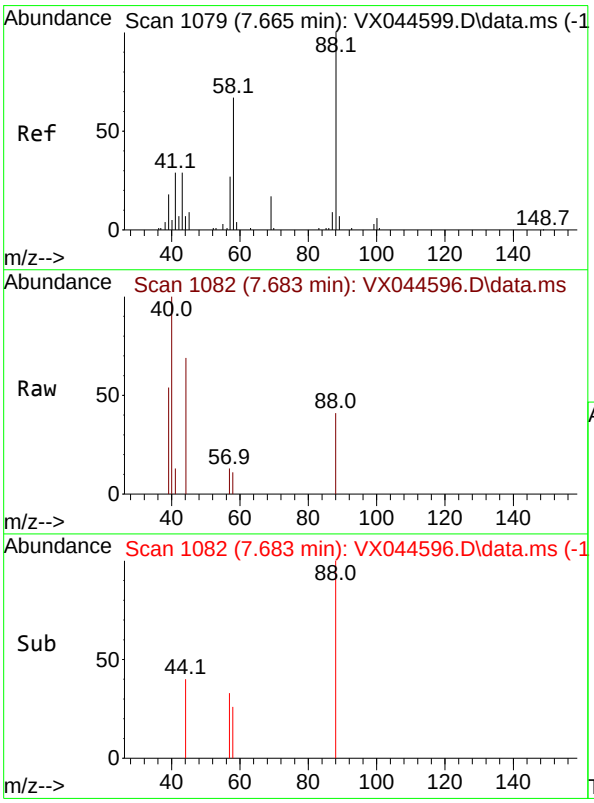
#48
Methyl methacrylate
Concen: 0.525 ug/l
RT: 7.720 min Scan# 1
Delta R.T. 0.030 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 41 Resp: 1140

Ion	Ratio	Lower	Upper
41	100		
69	112.4	62.9	94.3#
39	41.5	48.9	73.3#

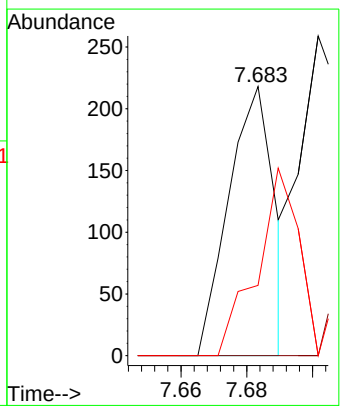


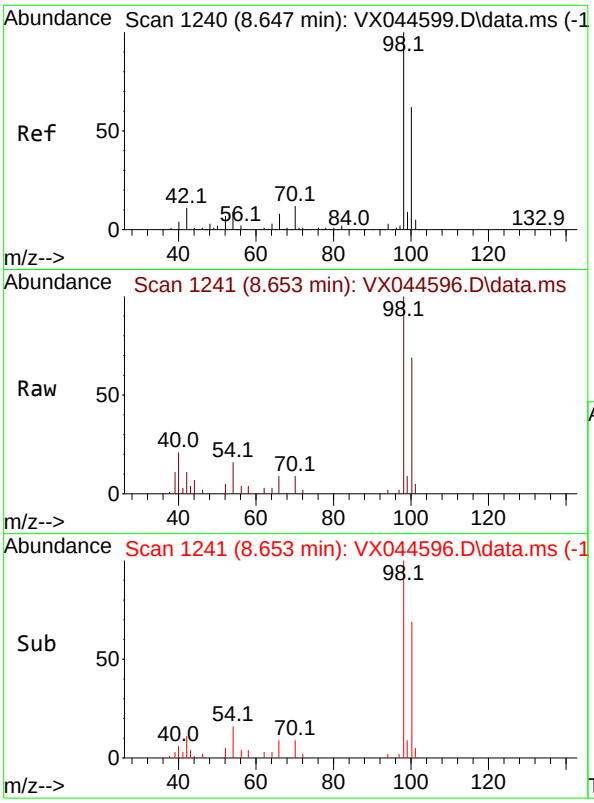


#49
1,4-Dioxane
Concen: 6.639 ug/l
RT: 7.683 min Scan# 1082
Delta R.T. 0.018 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 88 Resp: 212

Ion	Ratio	Lower	Upper
88	100		
43	0.0	29.5	44.3#
58	73.6	56.3	84.5



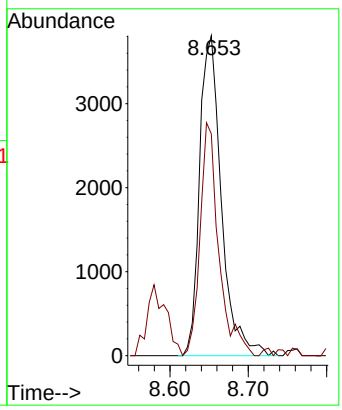


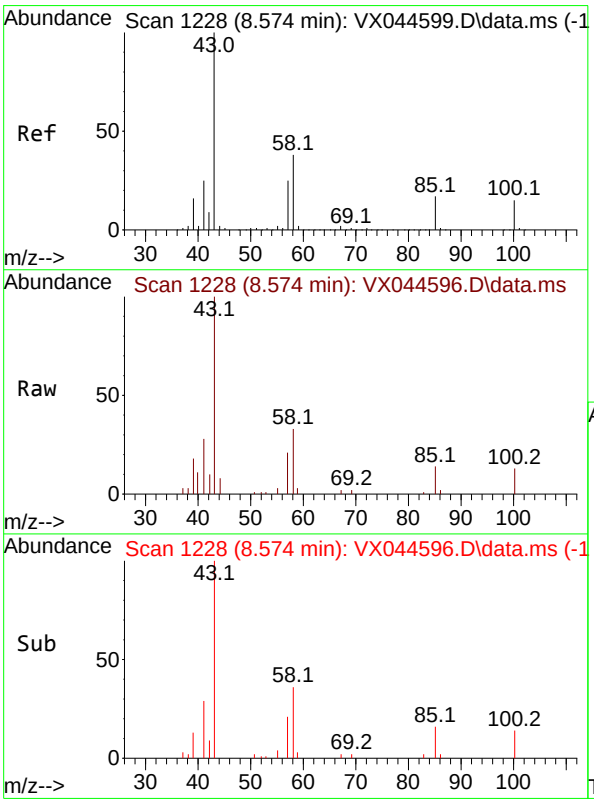
#50
Toluene-d8
Concen: 1.032 ug/l
RT: 8.653 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 98 Resp: 7361

Ion	Ratio	Lower	Upper
98	100		
100	62.3	52.5	78.7

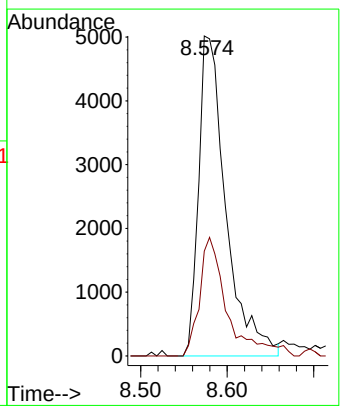


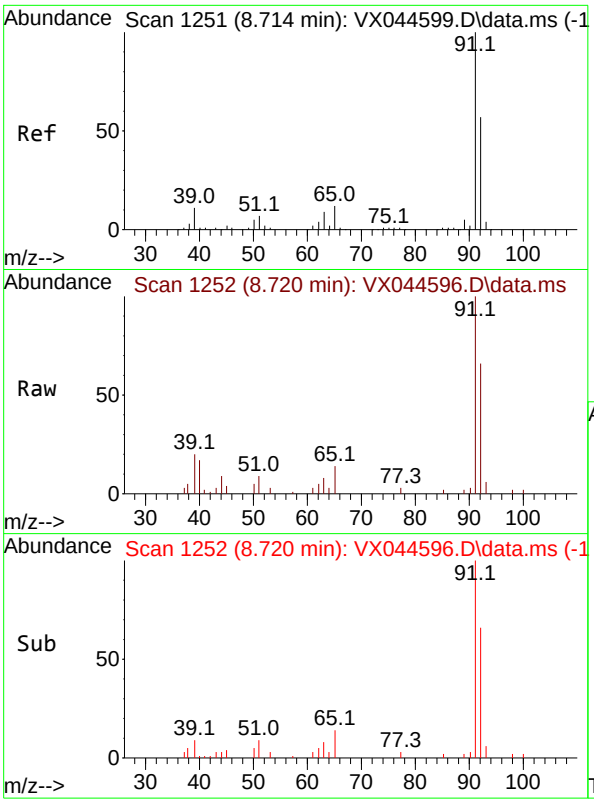


#51
4-Methyl-2-Pentanone
Concen: 4.125 ug/l
RT: 8.574 min Scan# 1228
Delta R.T. -0.000 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 43 Resp: 10986

Ion	Ratio	Lower	Upper
43	100		
58	37.3	30.0	45.0



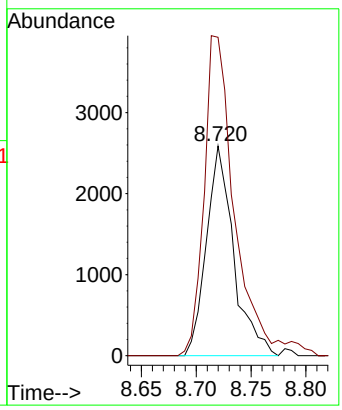


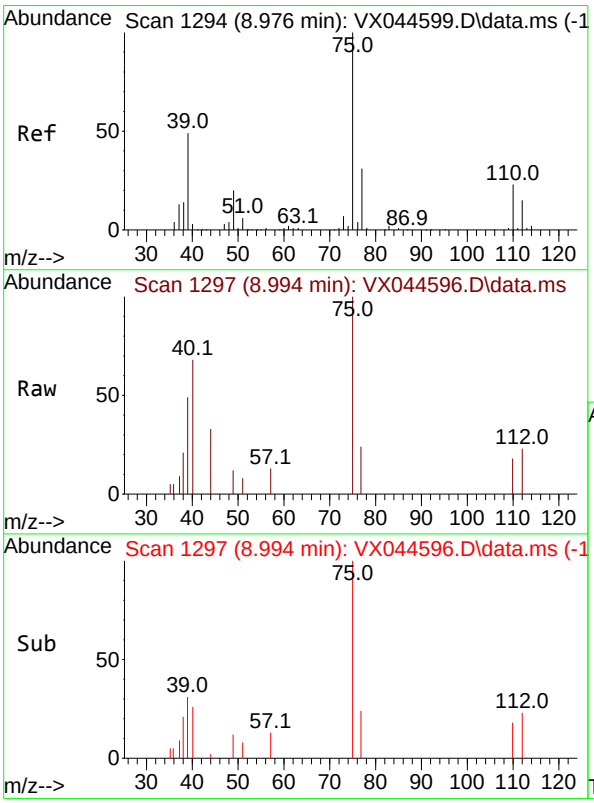
#52
Toluene
Concen: 0.874 ug/l
RT: 8.720 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 92 Resp: 4484

Ion	Ratio	Lower	Upper
92	100		
91	171.7	140.6	210.8

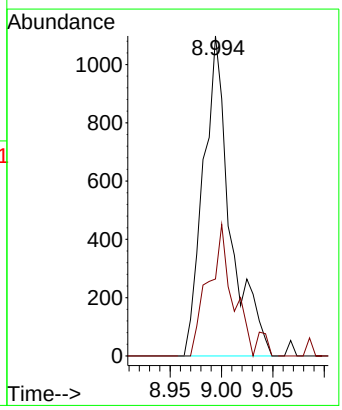


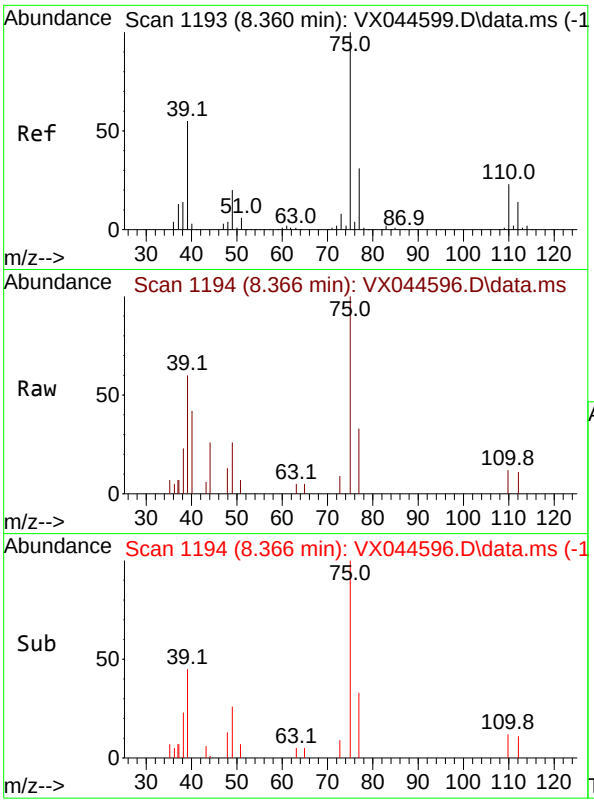


#53
t-1,3-Dichloropropene
Concen: 0.717 ug/l
RT: 8.994 min Scan# 1297
Delta R.T. 0.018 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 75 Resp: 2011

Ion	Ratio	Lower	Upper
75	100		
77	24.0	24.8	37.2#



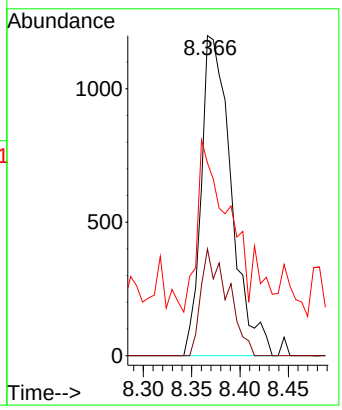


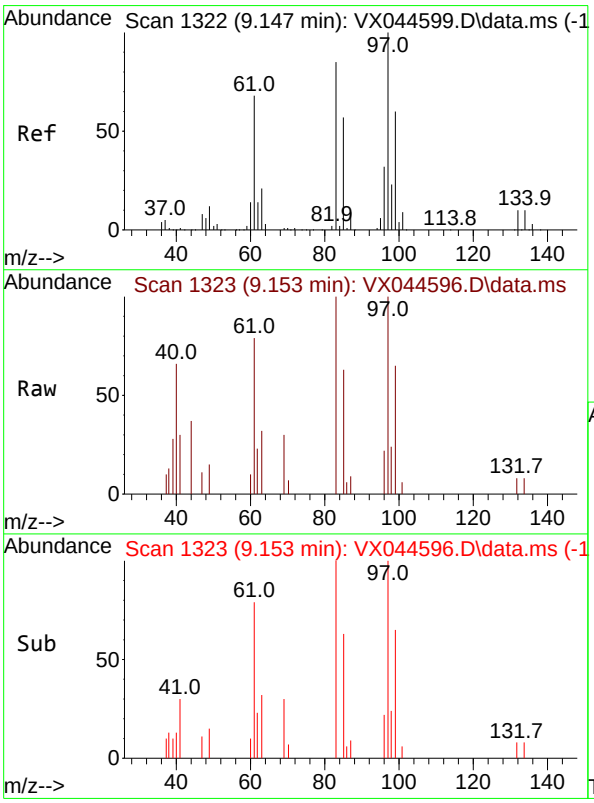
#54
cis-1,3-Dichloropropene
Concen: 0.822 ug/l
RT: 8.366 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 75 Resp: 2591

Ion	Ratio	Lower	Upper
75	100		
77	33.4	24.5	36.7
39	43.3	44.3	66.5#

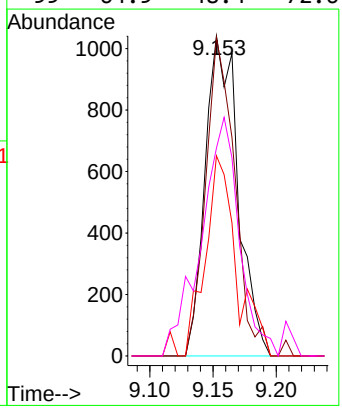


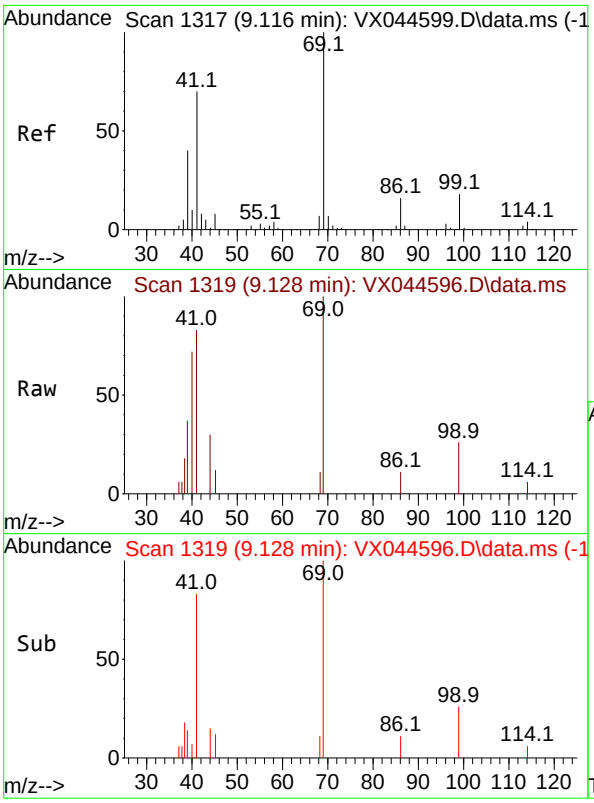


#55
1,1,2-Trichloroethane
Concen: 0.933 ug/l
RT: 9.153 min Scan# 1323
Delta R.T. 0.006 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 97 Resp: 1876

Ion	Ratio	Lower	Upper
97	100		
83	99.6	68.0	102.0
85	62.5	45.4	68.0
99	64.9	48.4	72.6



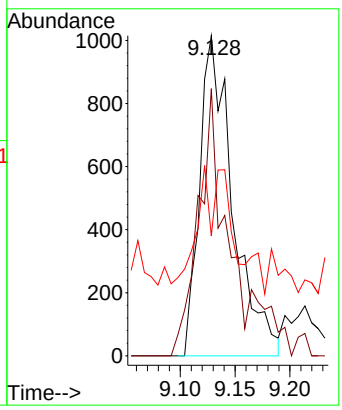


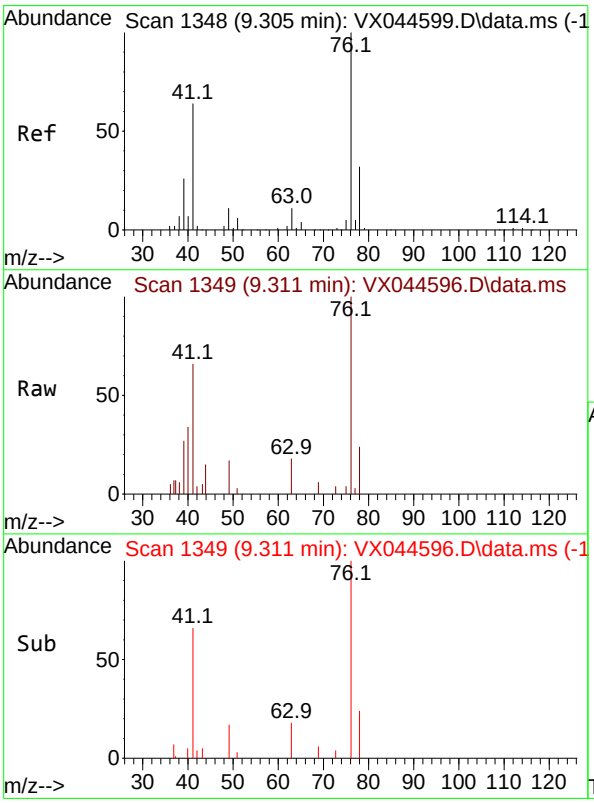
#56
Ethyl methacrylate
Concen: 0.729 ug/l
RT: 9.128 min Scan# 1
Delta R.T. 0.012 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 69 Resp: 2131

Ion	Ratio	Lower	Upper
69	100		
41	72.8	57.7	86.5
39	15.0	33.7	50.5#

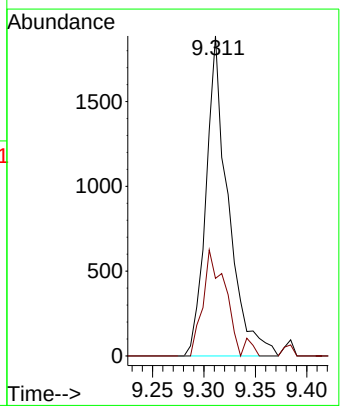


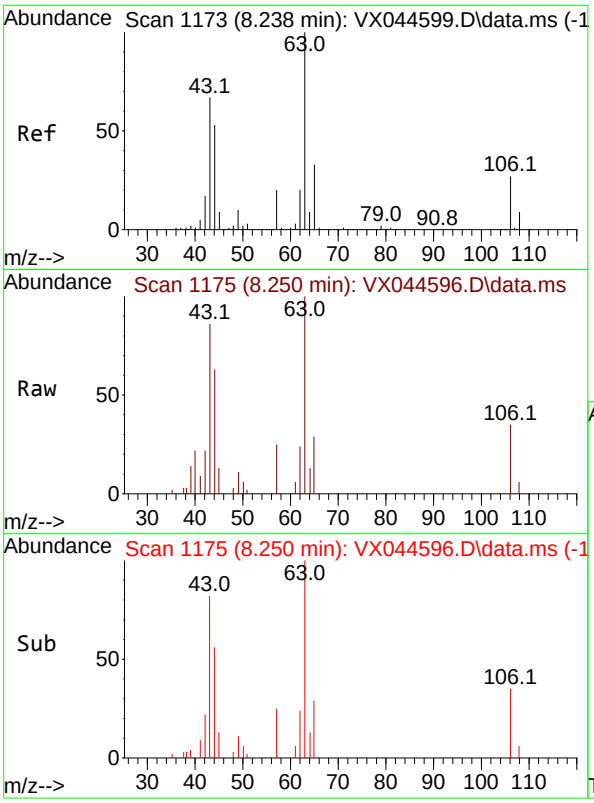


#57
1,3-Dichloropropane
Concen: 0.836 ug/l
RT: 9.311 min Scan# 1349
Delta R.T. 0.006 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 76 Resp: 2823

Ion	Ratio	Lower	Upper
76	100		
78	32.8	25.8	38.8



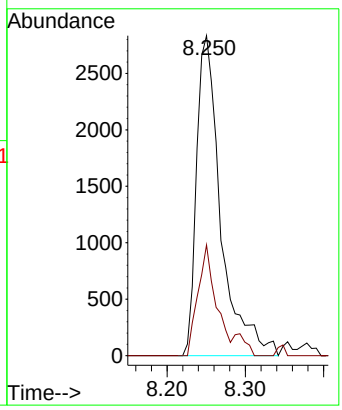


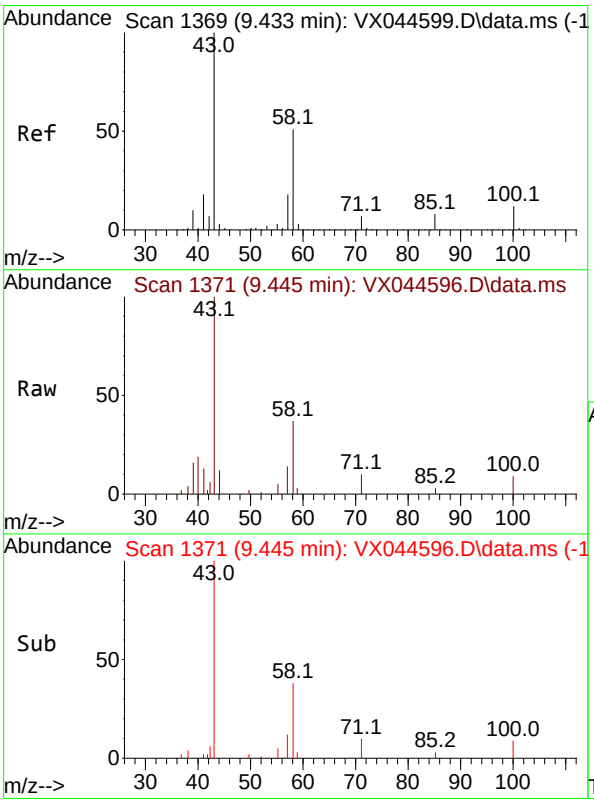
#58
2-Chloroethyl Vinyl ether
Concen: 4.210 ug/l
RT: 8.250 min Scan# 11
Delta R.T. 0.012 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 63 Resp: 6102

Ion	Ratio	Lower	Upper
63	100		
106	25.9	22.4	33.6

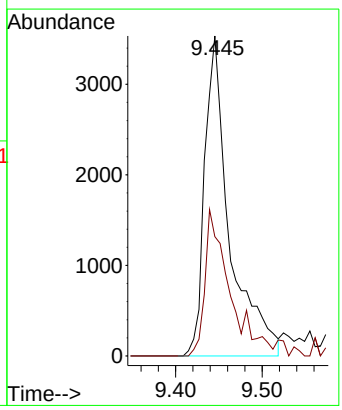


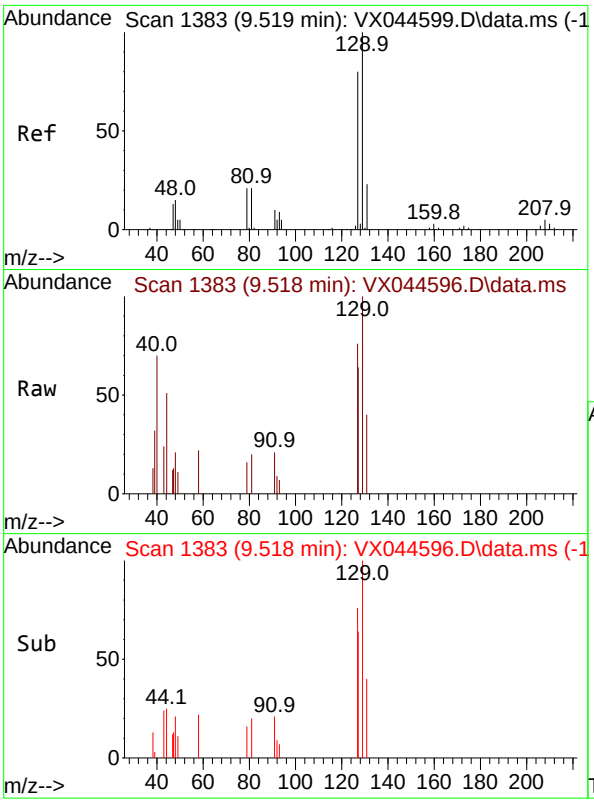


#59
2-Hexanone
Concen: 3.748 ug/l
RT: 9.445 min Scan# 1371
Delta R.T. 0.012 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 43 Resp: 7059

Ion	Ratio	Lower	Upper
43	100		
58	45.2	25.4	76.4



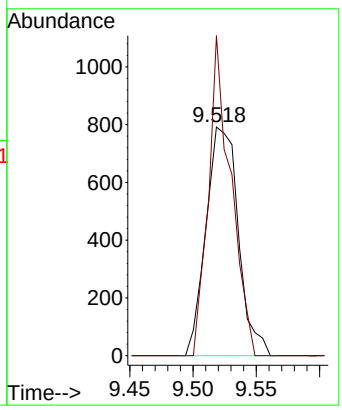


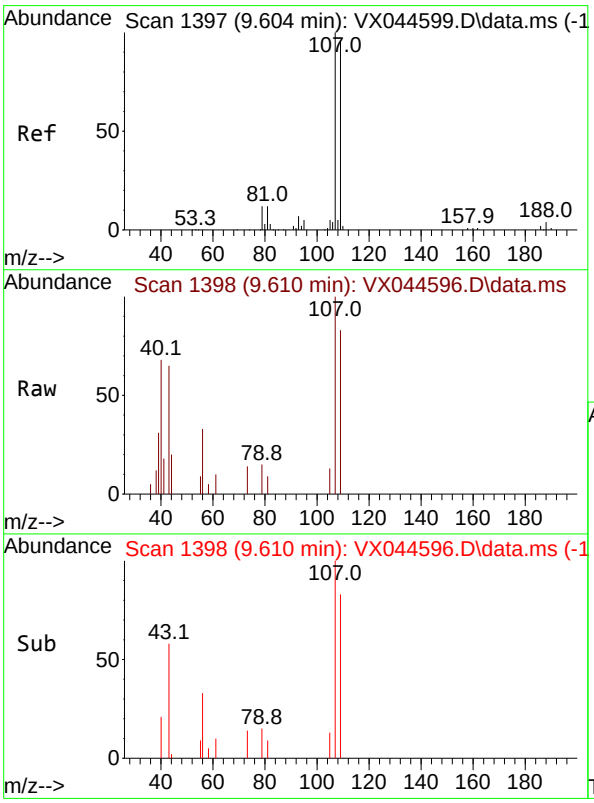
#60
Dibromochloromethane
Concen: 0.702 ug/l
RT: 9.518 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:129 Resp: 1408

Ion	Ratio	Lower	Upper
129	100		
127	96.9	38.9	116.7

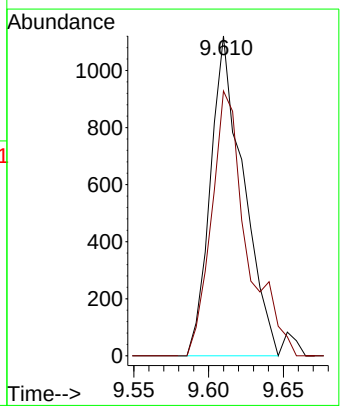


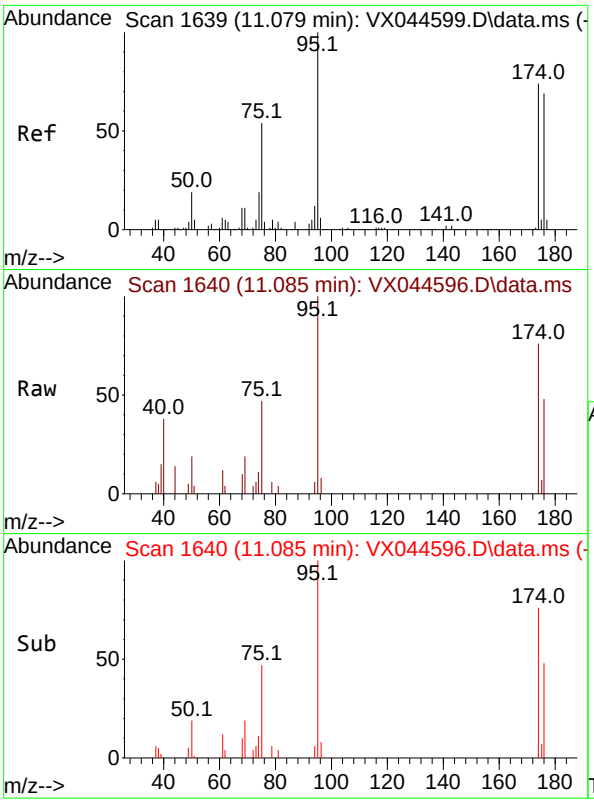


#61
1,2-Dibromoethane
Concen: 0.846 ug/l
RT: 9.610 min Scan# 1398
Delta R.T. 0.006 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion:107 Resp: 1717

Ion	Ratio	Lower	Upper
107	100		
109	88.5	76.7	115.1



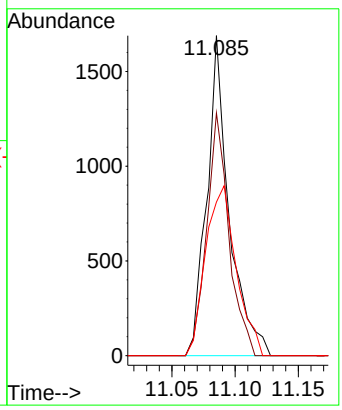


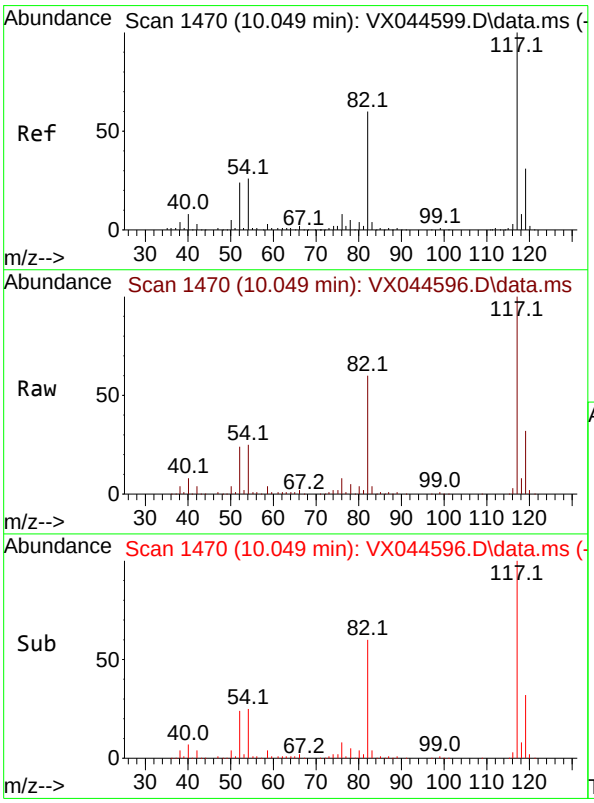
#62
4-Bromofluorobenzene
Concen: 0.824 ug/l
RT: 11.085 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 95 Resp: 2073

Ion	Ratio	Lower	Upper
95	100		
174	75.3	0.0	148.8
176	72.7	0.0	139.8

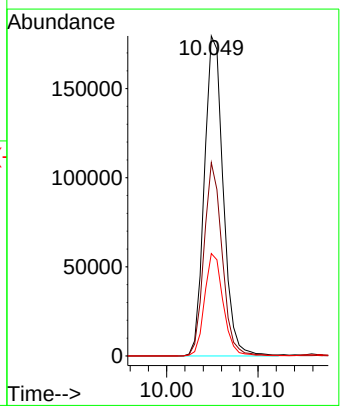


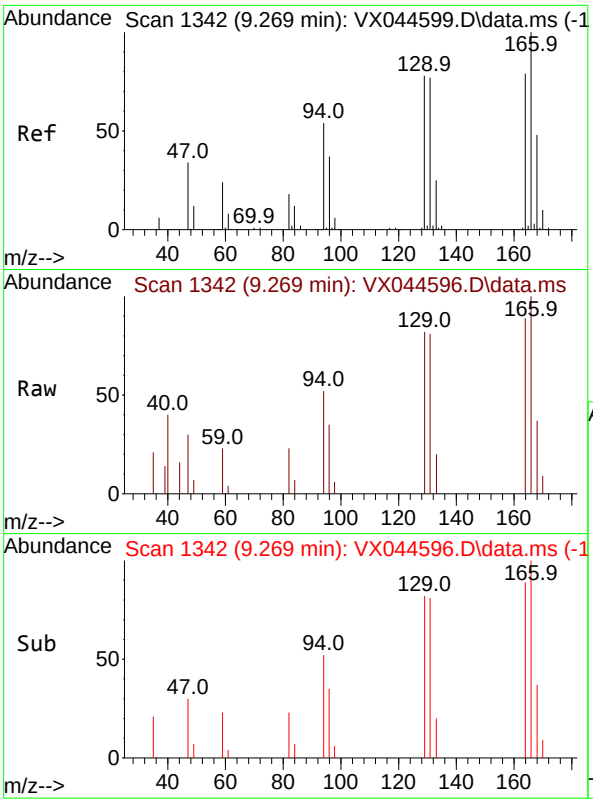


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. -0.000 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion:117 Resp: 256598

Ion	Ratio	Lower	Upper
117	100		
82	60.4	47.8	71.6
119	32.0	25.0	37.6



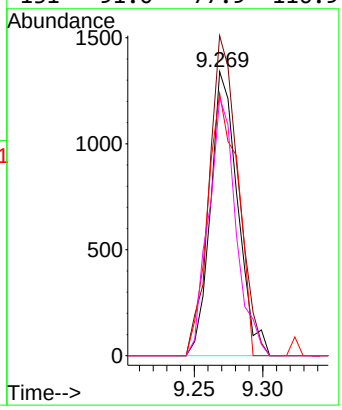


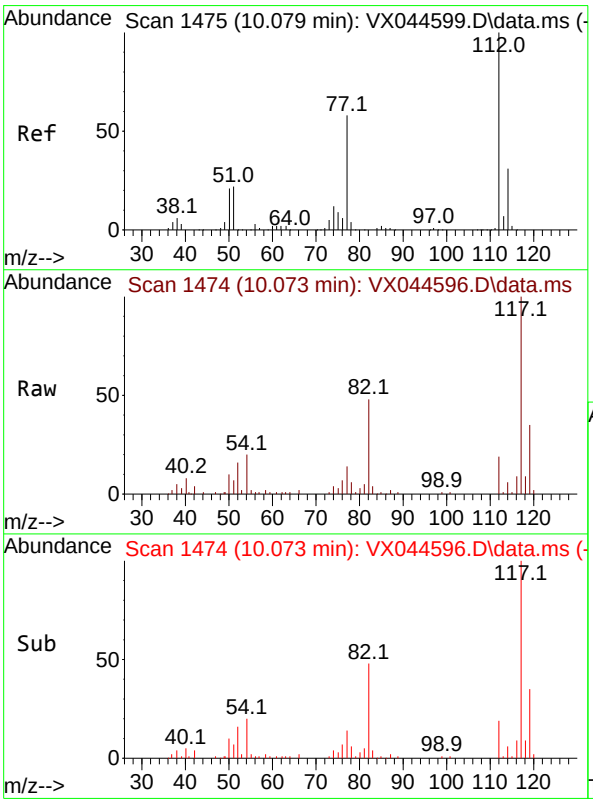
#64
Tetrachloroethene
Concen: 1.018 ug/l
RT: 9.269 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:164 Resp: 1846

Ion	Ratio	Lower	Upper
164	100		
166	112.7	101.5	152.3
129	92.4	78.9	118.3
131	91.0	77.9	116.9

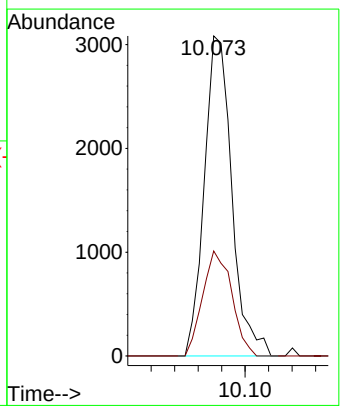


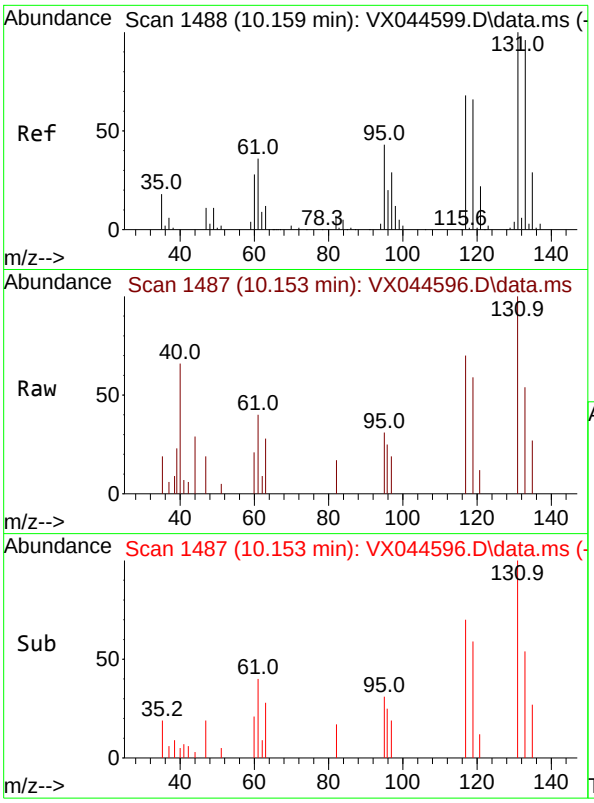


#65
Chlorobenzene
Concen: 0.921 ug/l
RT: 10.073 min Scan# 1474
Delta R.T. -0.006 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion:112 Resp: 5014

Ion	Ratio	Lower	Upper
112	100		
114	32.8	25.0	37.4



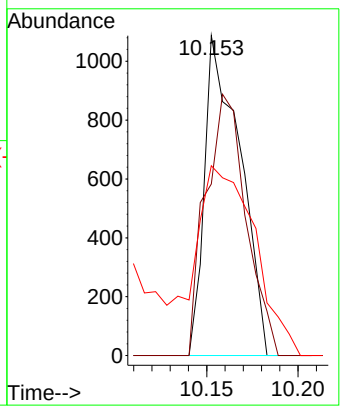


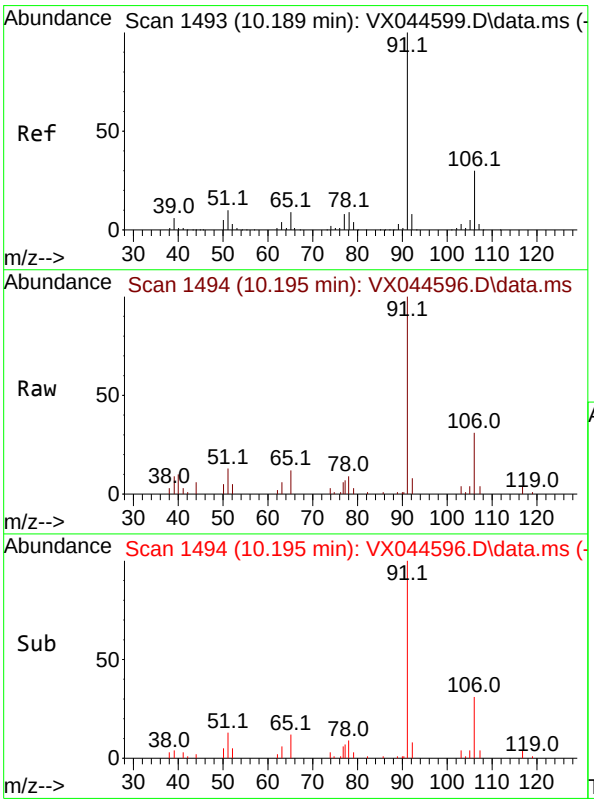
#66
1,1,1,2-Tetrachloroethane
Concen: 0.813 ug/l
RT: 10.153 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:131 Resp: 1470

Ion	Ratio	Lower	Upper
131	100		
133	92.7	48.0	144.0
119	0.0	32.8	98.4#

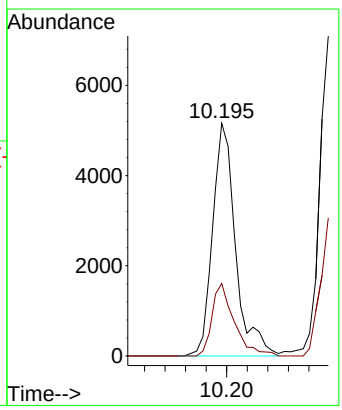


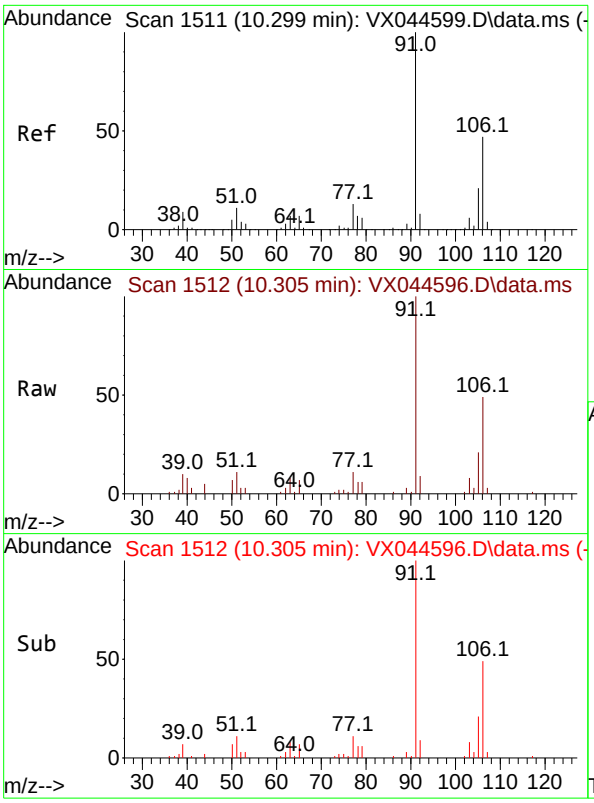


#67
Ethyl Benzene
Concen: 0.853 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. 0.006 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 91 Resp: 7980

Ion	Ratio	Lower	Upper
91	100		
106	31.1	23.8	35.8



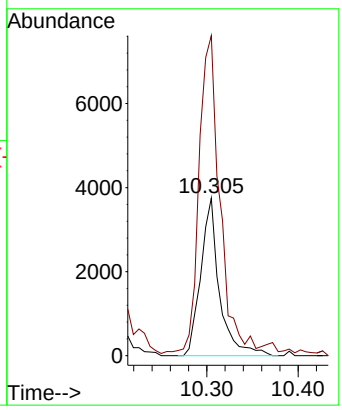


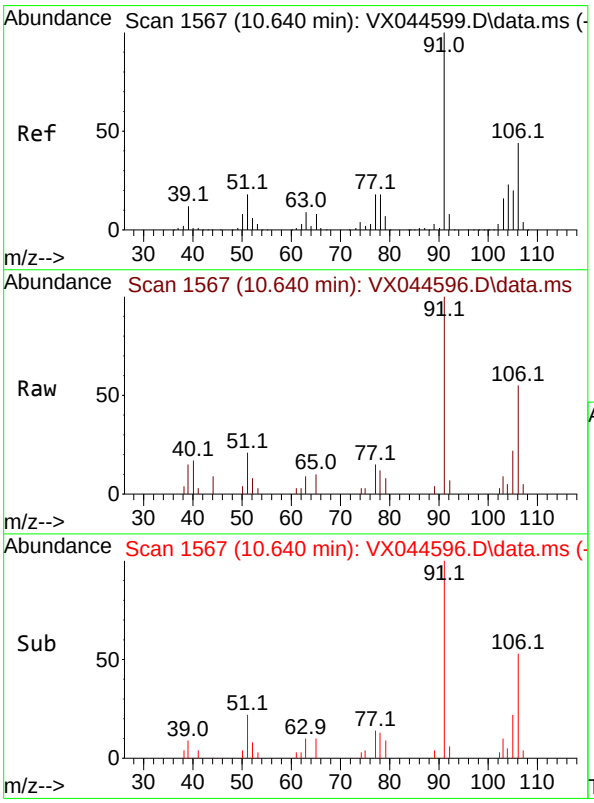
#68
m/p-Xylenes
Concen: 1.547 ug/l
RT: 10.305 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:106 Resp: 5317

Ion	Ratio	Lower	Upper
106	100		
91	224.8	170.4	255.6

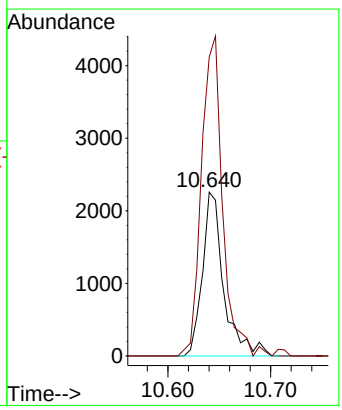


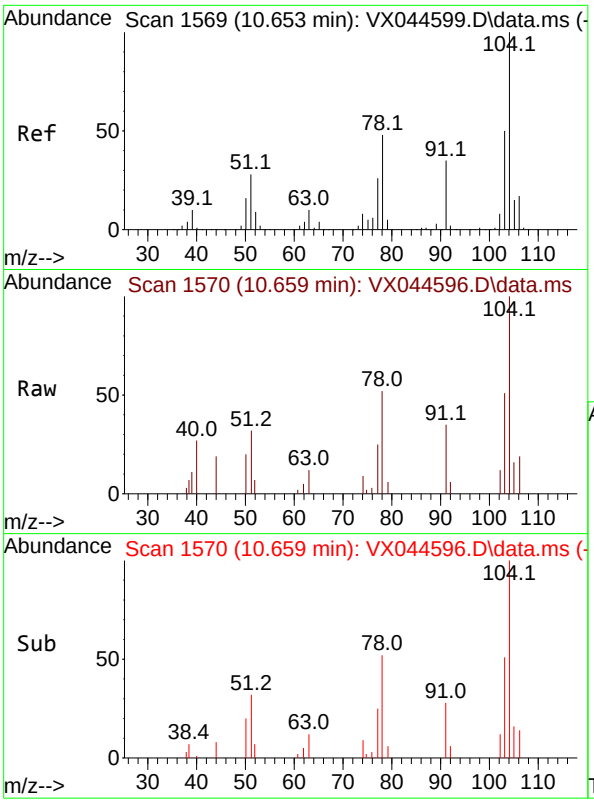


#69
o-Xylene
Concen: 0.942 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion:106 Resp: 3266

Ion	Ratio	Lower	Upper
106	100		
91	193.4	112.3	336.8



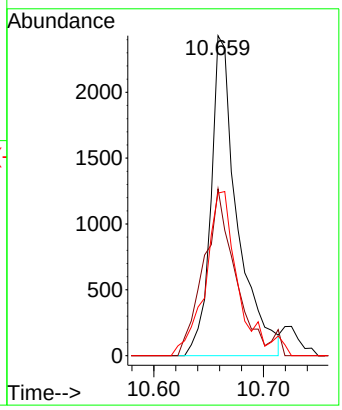


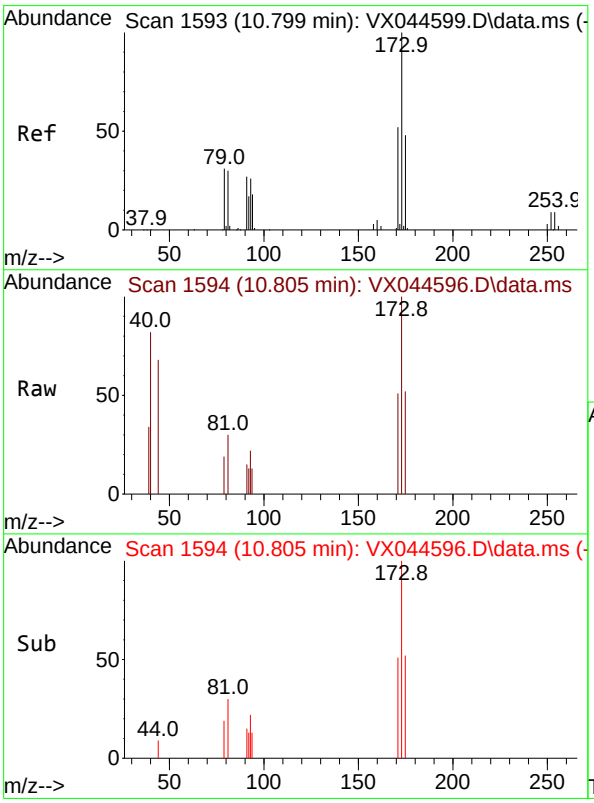
#70
Styrene
Concen: 0.731 ug/l
RT: 10.659 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:104 Resp: 4055

Ion	Ratio	Lower	Upper
104	100		
78	64.5	44.0	66.0
103	63.9	43.8	65.6

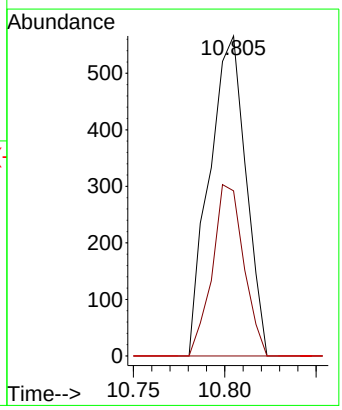


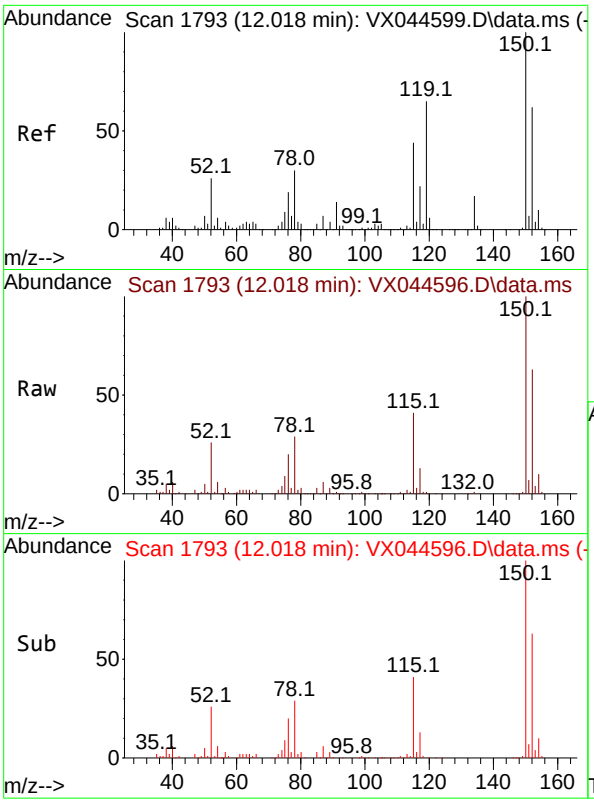


#71
Bromoform
Concen: 1.277 ug/l
RT: 10.805 min Scan# 1594
Delta R.T. 0.006 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion:173 Resp: 784

Ion	Ratio	Lower	Upper
173	100		
175	46.4	24.6	73.8
254	0.0	0.0	0.0



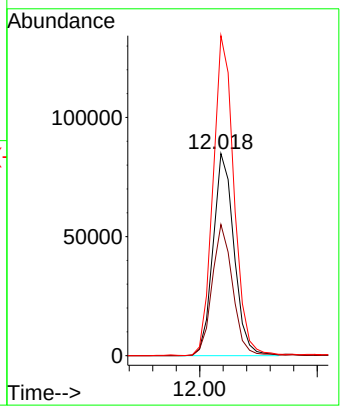


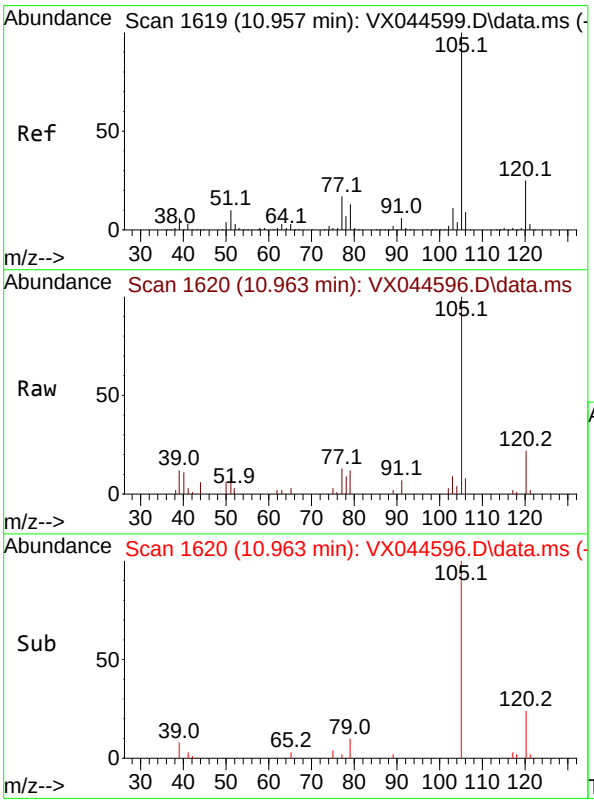
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:152 Resp: 105249

Ion	Ratio	Lower	Upper
152	100		
115	63.8	44.4	133.1
150	158.2	0.0	355.0

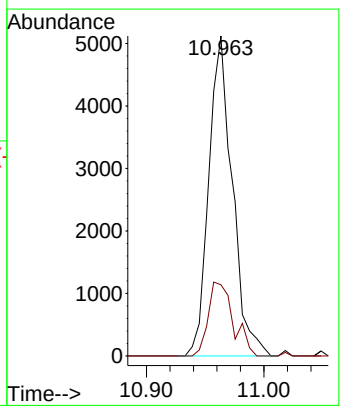


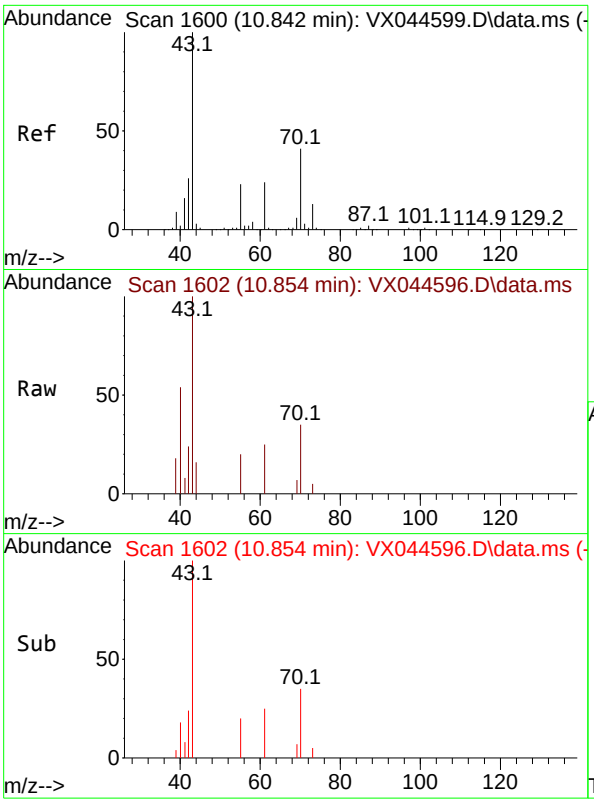


#73
Isopropylbenzene
Concen: 0.916 ug/l
RT: 10.963 min Scan# 1620
Delta R.T. 0.006 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion:105 Resp: 7140

Ion	Ratio	Lower	Upper
105	100		
120	24.5	13.0	38.9



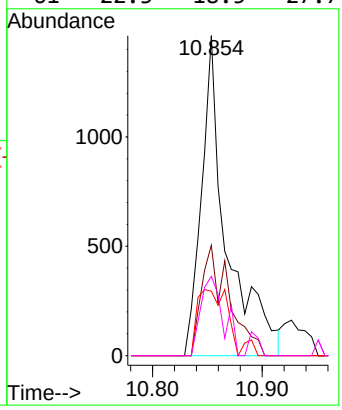


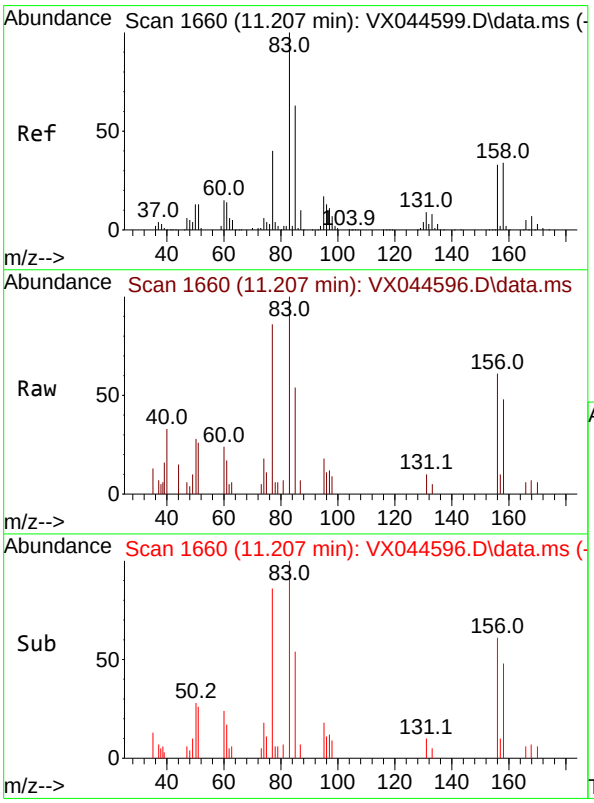
#74
N-amyl acetate
Concen: 0.737 ug/l
RT: 10.854 min Scan# 1
Delta R.T. 0.012 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 2332

Ion	Ratio	Lower	Upper
43	100		
70	38.1	32.9	49.3
55	26.2	19.0	28.6
61	22.3	18.5	27.7

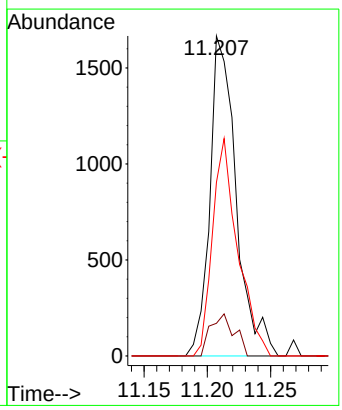


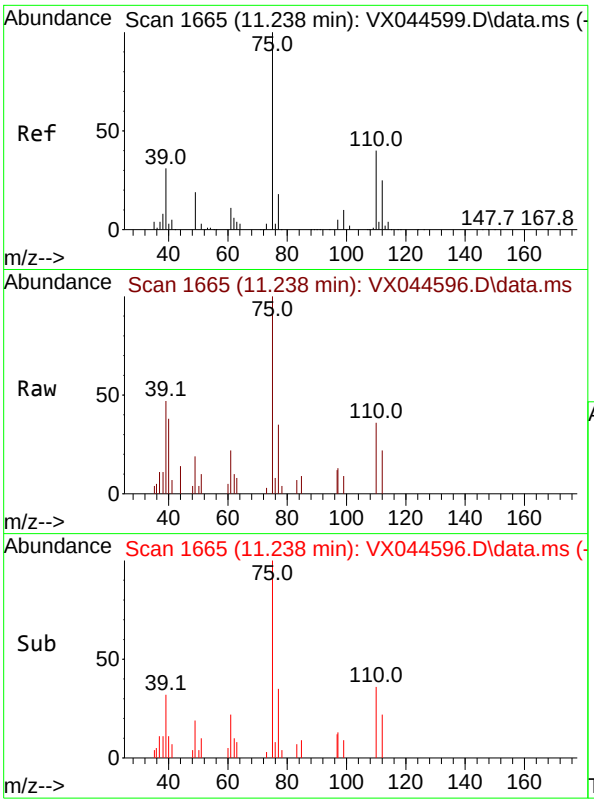


#75
1,1,2,2-Tetrachloroethane
Concen: 0.959 ug/l
RT: 11.207 min Scan# 1660
Delta R.T. -0.000 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 83 Resp: 2410

Ion	Ratio	Lower	Upper
83	100		
131	11.9	5.0	15.0
85	65.1	31.9	95.5



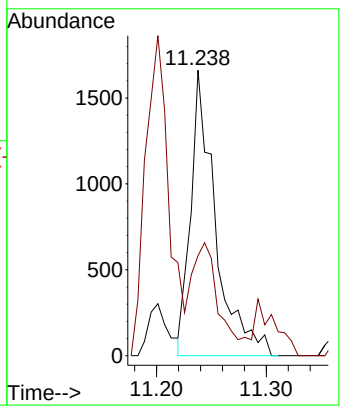


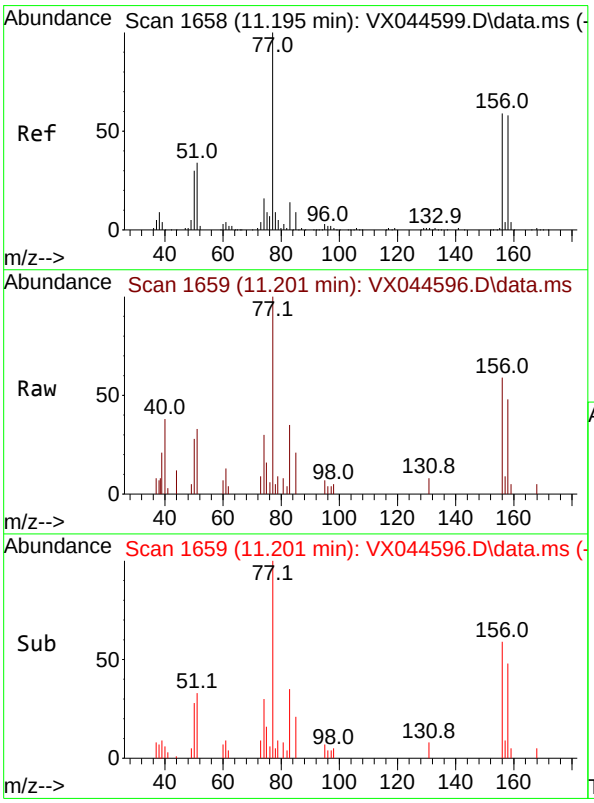
#76
1,2,3-Trichloropropane
Concen: 1.238 ug/l
RT: 11.238 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 75 Resp: 2613

Ion	Ratio	Lower	Upper
75	100		
77	41.5	21.1	63.1

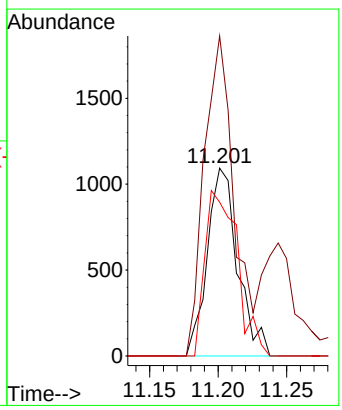


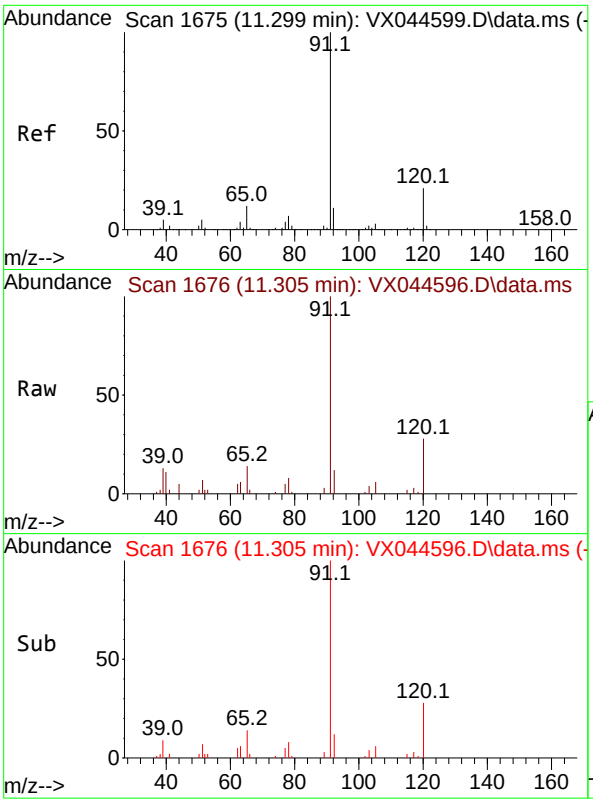


#77
Bromobenzene
Concen: 0.888 ug/l
RT: 11.201 min Scan# 1659
Delta R.T. 0.006 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion:156 Resp: 1682

Ion	Ratio	Lower	Upper
156	100		
77	165.7	85.7	257.1
158	94.2	49.9	149.6



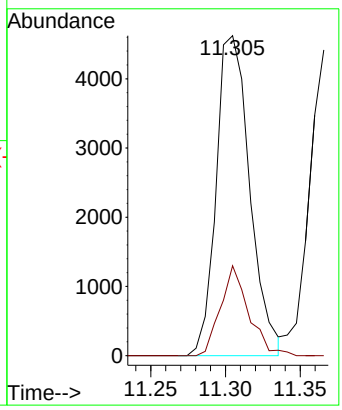


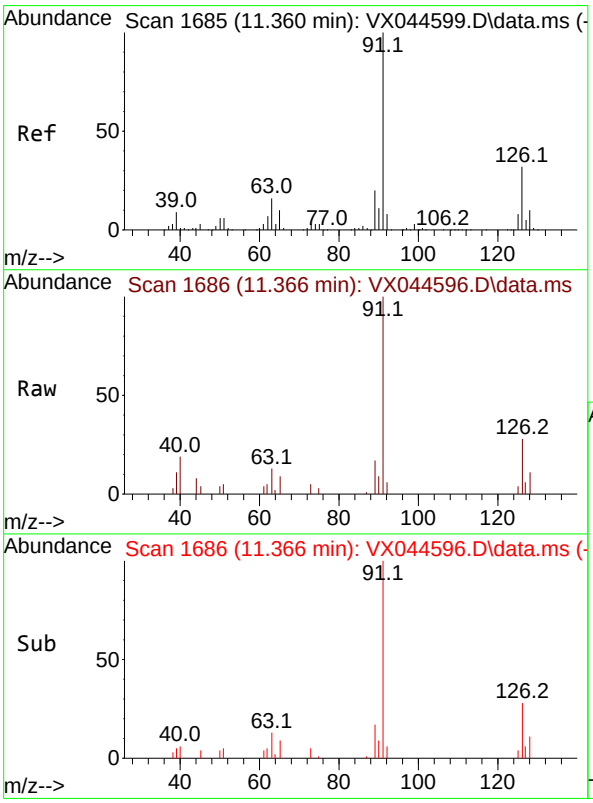
#78
n-propylbenzene
Concen: 0.822 ug/l
RT: 11.305 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 91 Resp: 7221

Ion	Ratio	Lower	Upper
91	100		
120	23.5	11.2	33.5

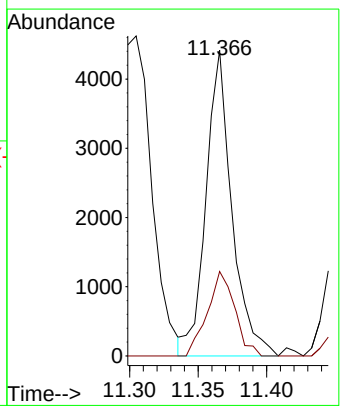


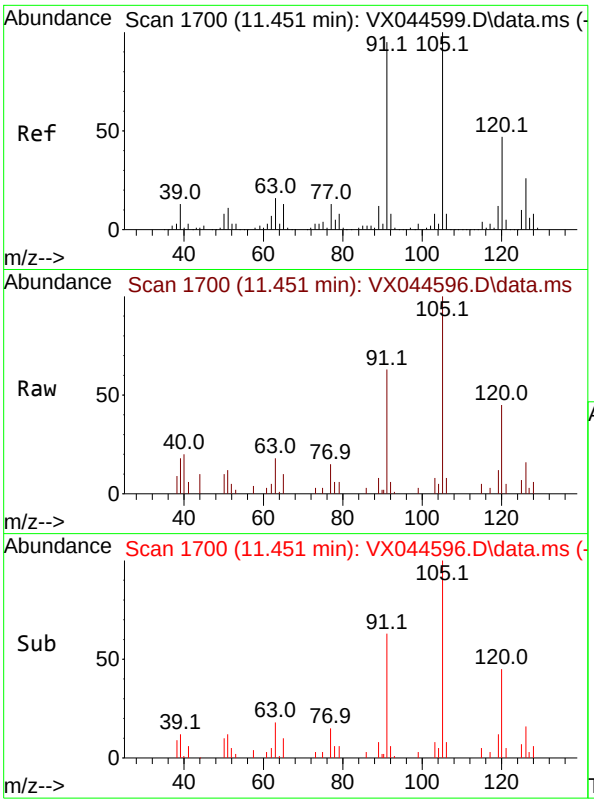


#79
2-Chlorotoluene
Concen: 1.019 ug/l
RT: 11.366 min Scan# 1686
Delta R.T. 0.006 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 91 Resp: 5802

Ion	Ratio	Lower	Upper
91	100		
126	29.2	16.4	49.2



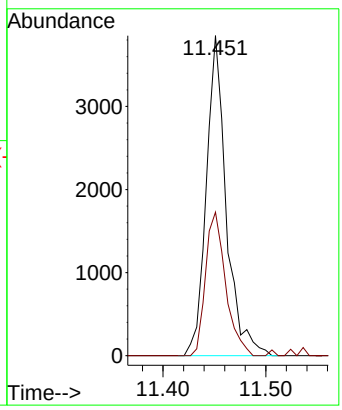


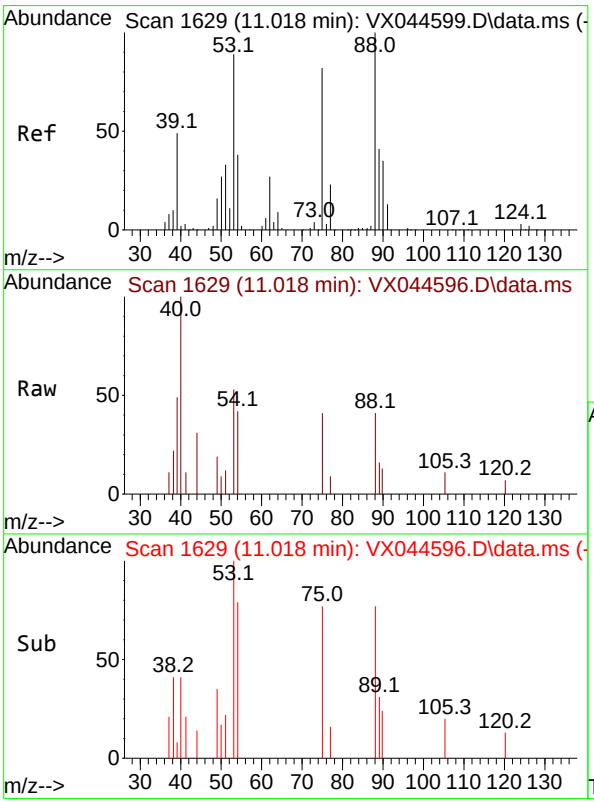
#80
1,3,5-Trimethylbenzene
Concen: 0.805 ug/l
RT: 11.451 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:105 Resp: 5205

Ion	Ratio	Lower	Upper
105	100		
120	45.1	23.5	70.5

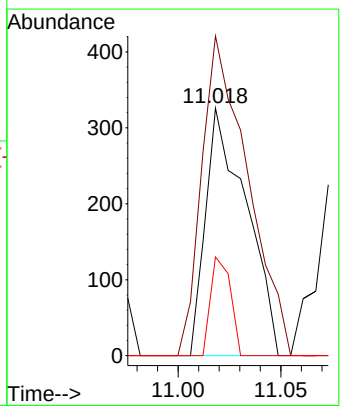


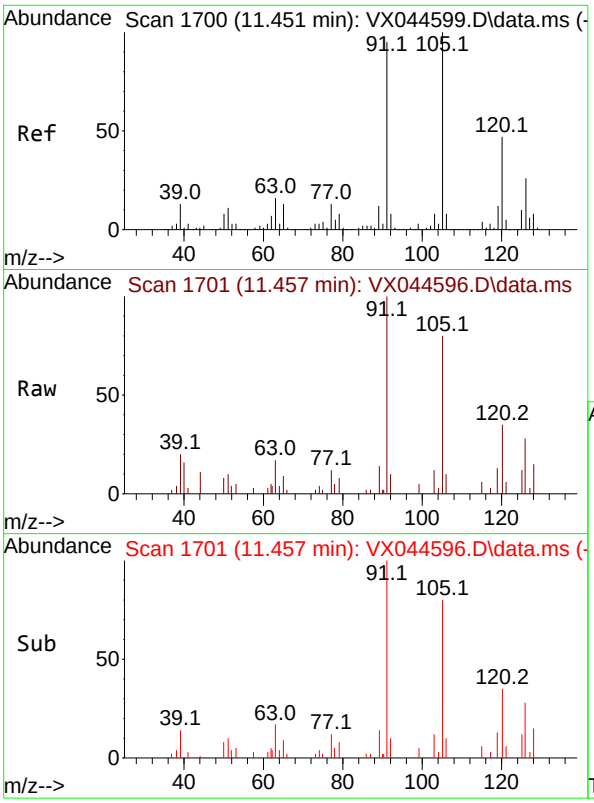


#81
trans-1,4-Dichloro-2-butene
Concen: 0.649 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. -0.000 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 75 Resp: 450

Ion	Ratio	Lower	Upper
75	100		
53	145.8	92.7	139.1#
89	19.3	38.3	57.5#



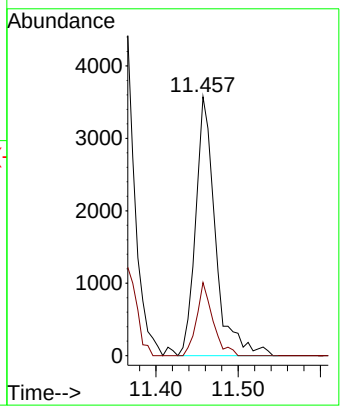


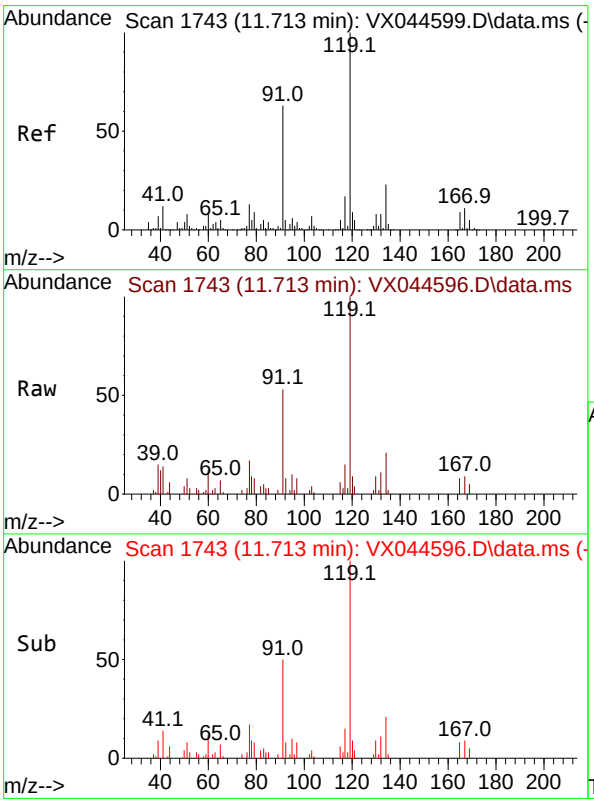
#82
4-Chlorotoluene
Concen: 0.936 ug/l
RT: 11.457 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 91 Resp: 5992

Ion	Ratio	Lower	Upper
91	100		
126	23.2	14.0	42.0

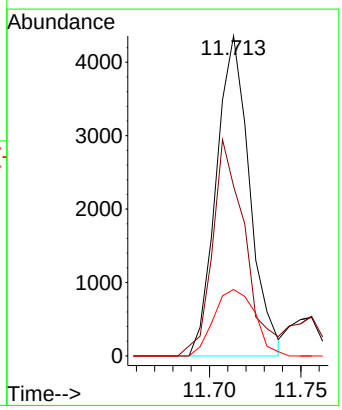


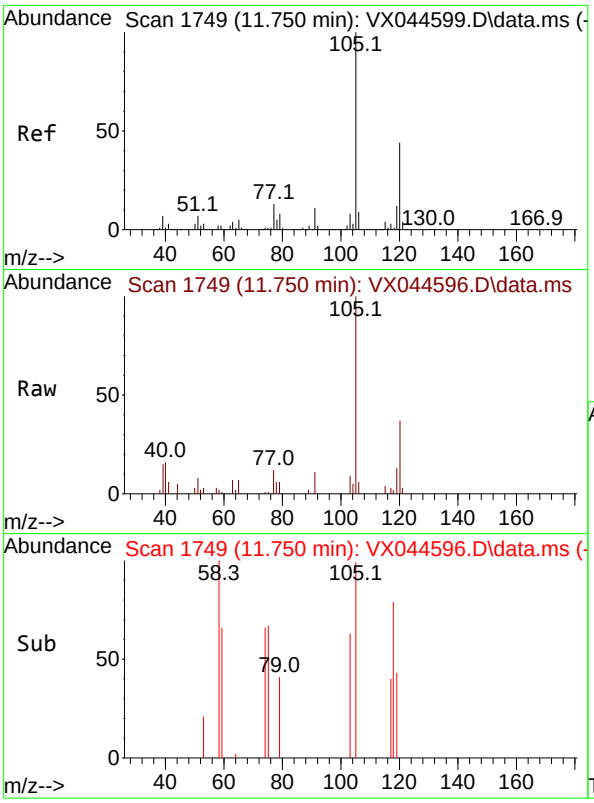


#83
tert-Butylbenzene
Concen: 0.860 ug/l
RT: 11.713 min Scan# 1743
Delta R.T. -0.000 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion:119 Resp: 5537

Ion	Ratio	Lower	Upper
119	100		
91	65.8	30.9	92.8
134	25.6	11.7	35.0



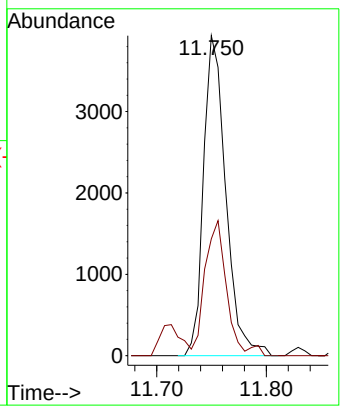


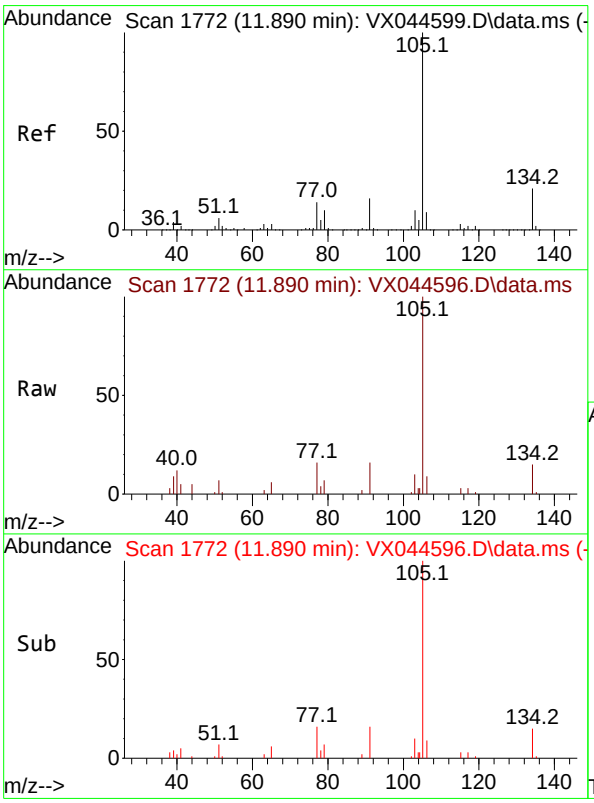
#84
1,2,4-Trimethylbenzene
Concen: 0.854 ug/l
RT: 11.750 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:105 Resp: 5545

Ion	Ratio	Lower	Upper
105	100		
120	41.3	21.9	65.7

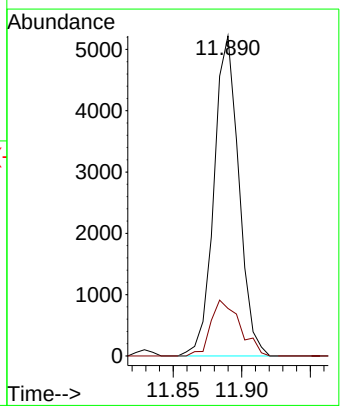


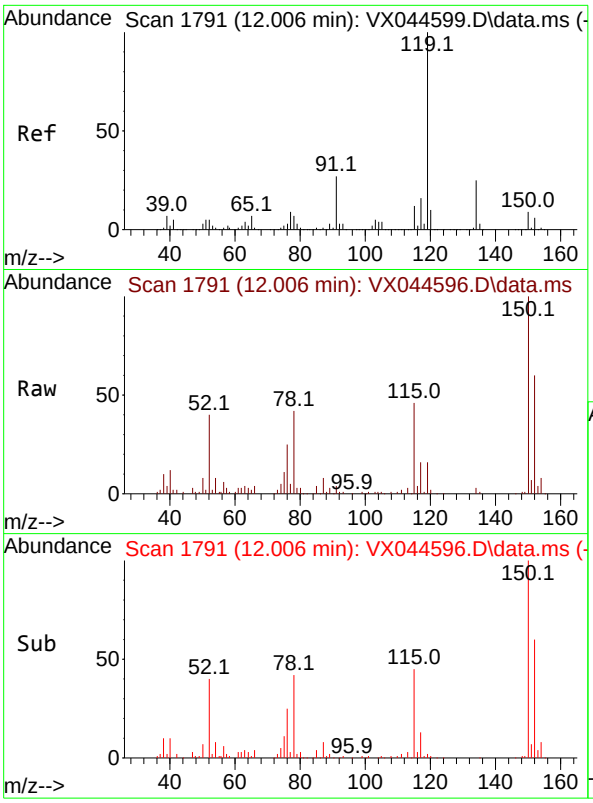


#85
sec-Butylbenzene
Concen: 0.841 ug/l
RT: 11.890 min Scan# 1772
Delta R.T. -0.000 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion:105 Resp: 6591

Ion	Ratio	Lower	Upper
105	100		
134	20.5	9.9	29.7



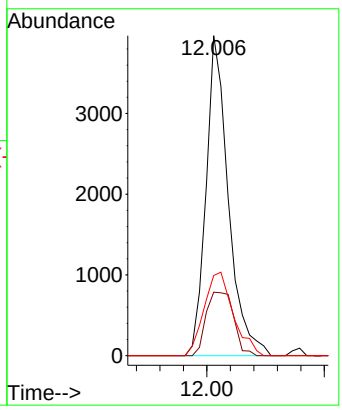


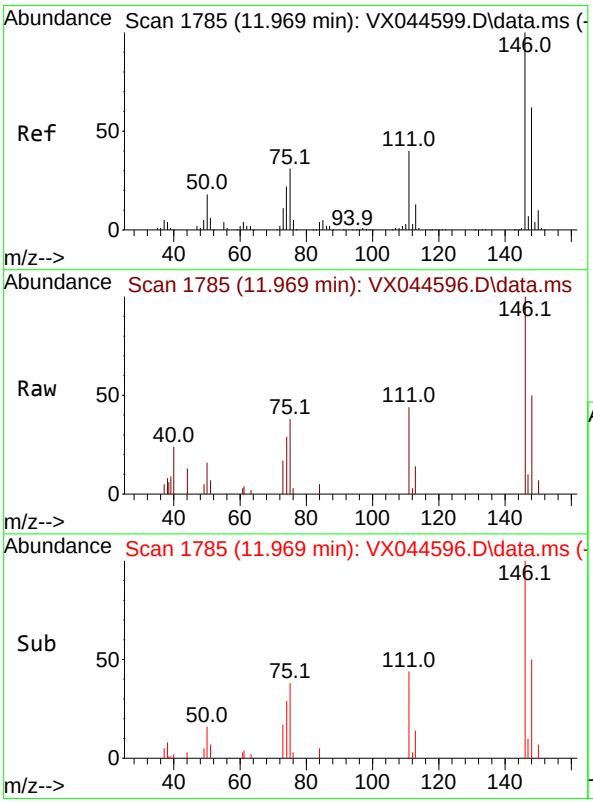
#86
p-Isopropyltoluene
Concen: 0.795 ug/l
RT: 12.006 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:119 Resp: 5229

Ion	Ratio	Lower	Upper
119	100		
134	24.5	12.6	37.8
91	34.1	13.1	39.1

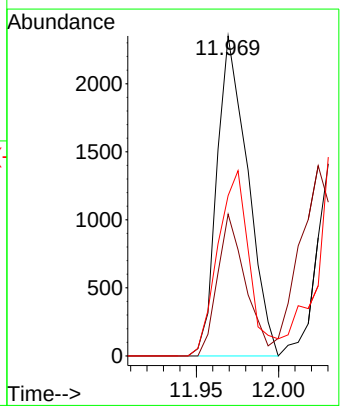


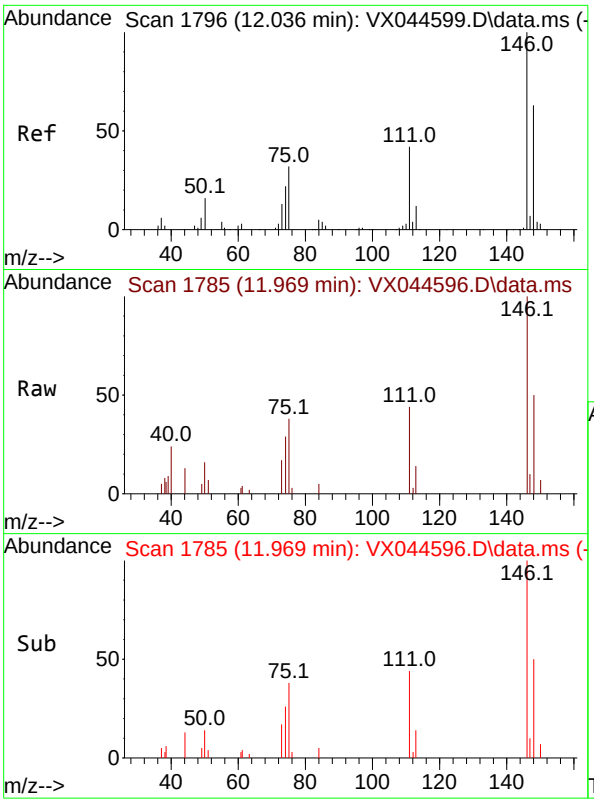


#87
1,3-Dichlorobenzene
Concen: 0.894 ug/l
RT: 11.969 min Scan# 1785
Delta R.T. -0.000 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion:146 Resp: 3064

Ion	Ratio	Lower	Upper
146	100		
111	40.3	21.0	63.0
148	60.0	31.6	95.0



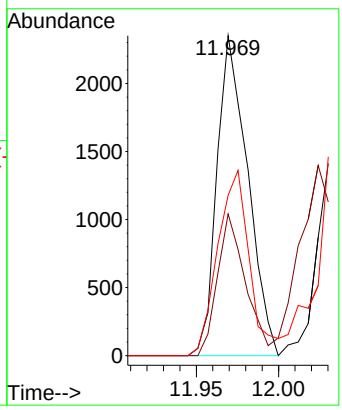


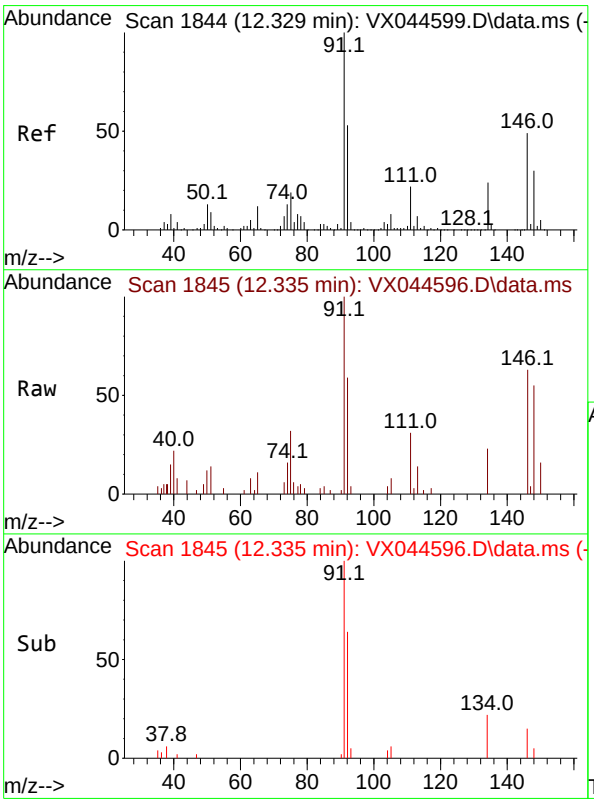
#88
1,4-Dichlorobenzene
Concen: 0.858 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.067 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:146 Resp: 3064

Ion	Ratio	Lower	Upper
146	100		
111	40.3	20.7	62.1
148	60.0	31.8	95.4

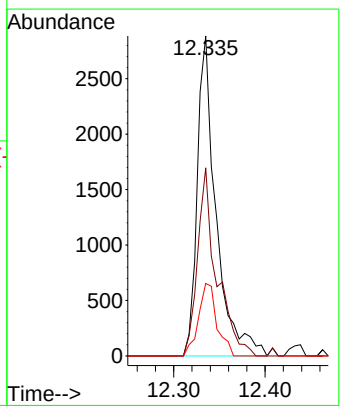


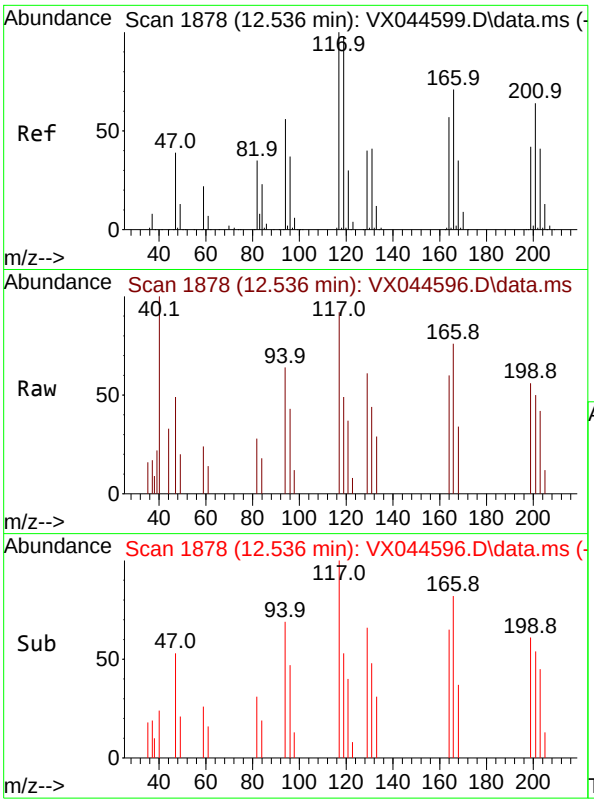


#89
n-Butylbenzene
Concen: 0.745 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.006 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion: 91 Resp: 4140

Ion	Ratio	Lower	Upper
91	100		
92	59.5	26.5	79.4
134	22.1	12.4	37.2



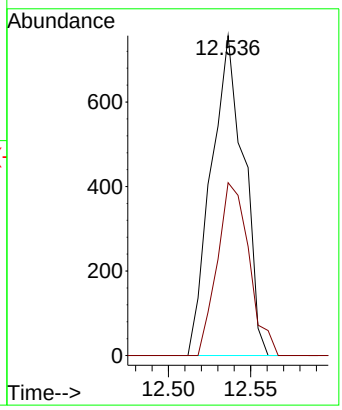


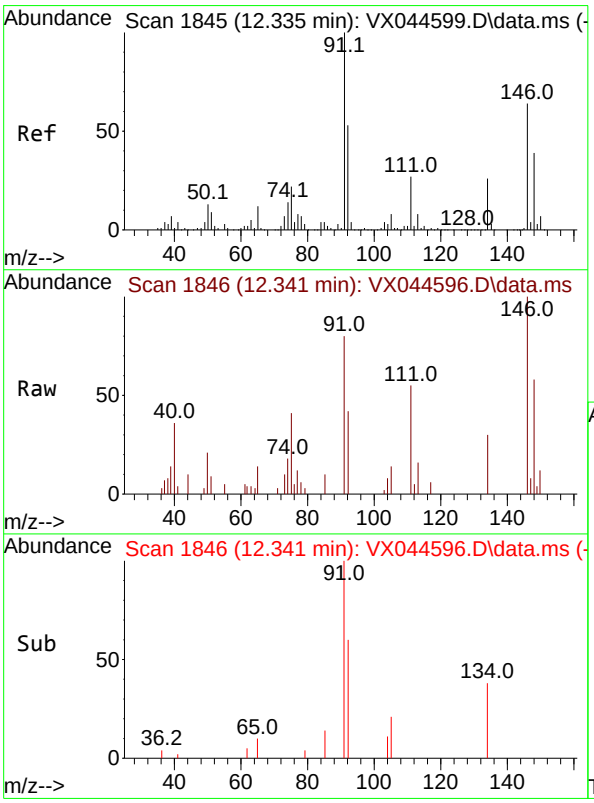
#90
Hexachloroethane
Concen: 0.988 ug/l
RT: 12.536 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:117 Resp: 1044

Ion	Ratio	Lower	Upper
117	100		
201	52.8	33.6	100.6

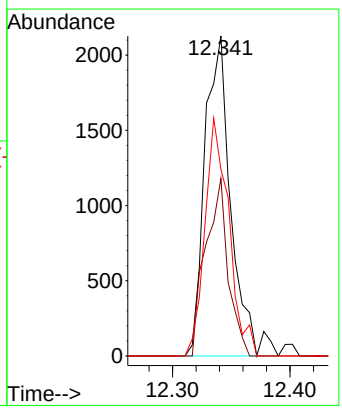


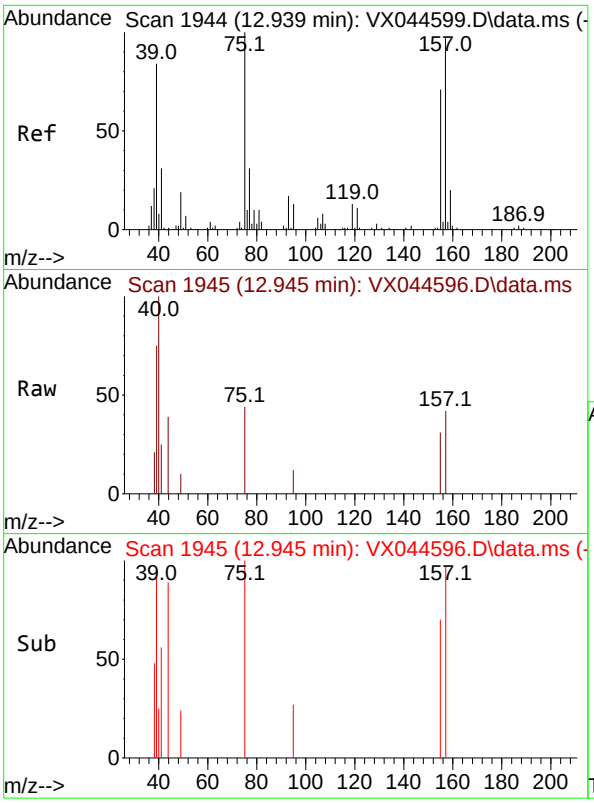


#91
1,2-Dichlorobenzene
Concen: 0.948 ug/l
RT: 12.341 min Scan# 1846
Delta R.T. 0.006 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion:146 Resp: 3284

Ion	Ratio	Lower	Upper
146	100		
111	47.8	21.8	65.4
148	68.3	31.1	93.3



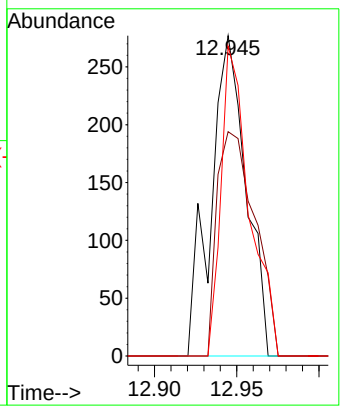


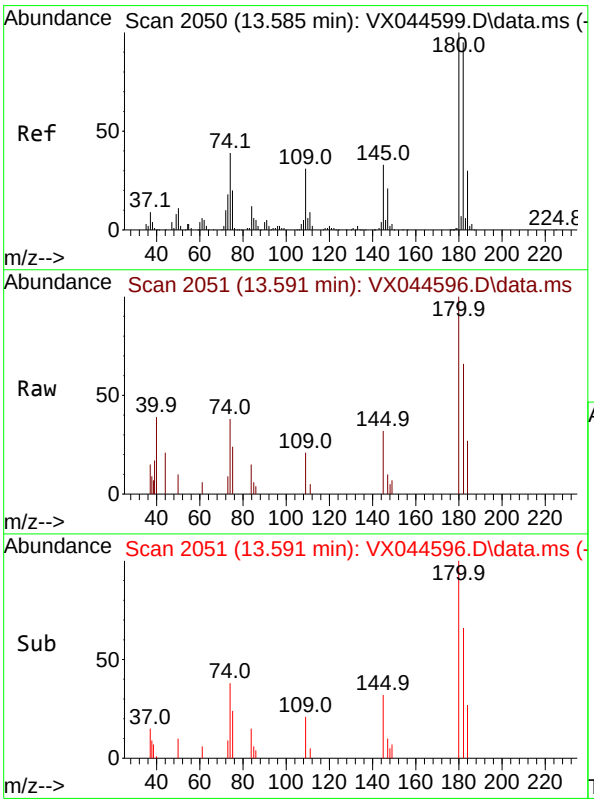
#92
1,2-Dibromo-3-Chloropropane
Concen: 0.871 ug/l
RT: 12.945 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 75 Resp: 415

Ion	Ratio	Lower	Upper
75	100		
155	75.4	37.4	112.1
157	77.3	48.0	144.2

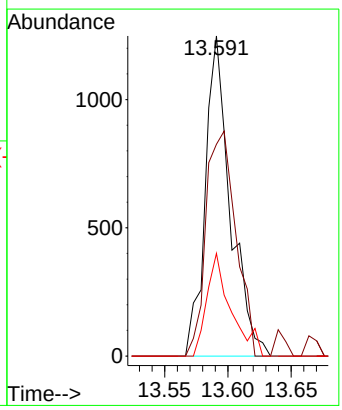


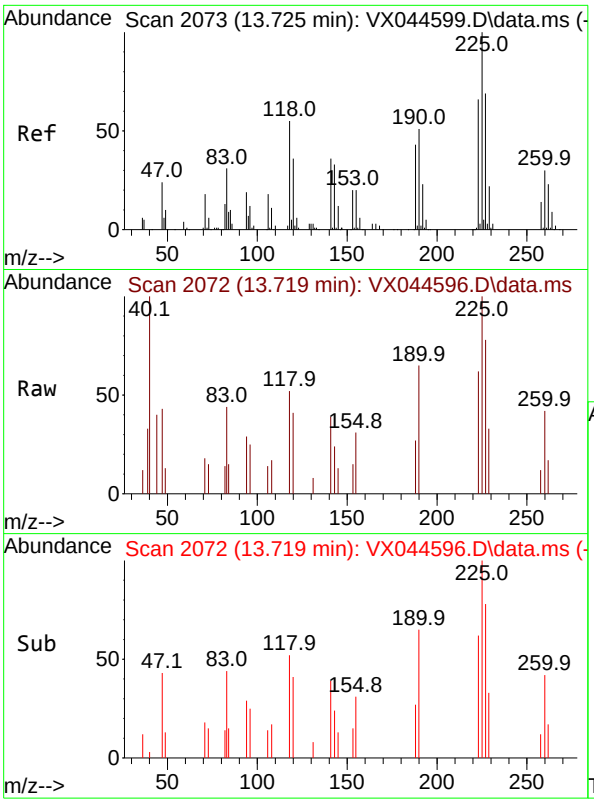


#93
1,2,4-Trichlorobenzene
Concen: 0.846 ug/l
RT: 13.591 min Scan# 2051
Delta R.T. 0.006 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion:180 Resp: 1722

Ion	Ratio	Lower	Upper
180	100		
182	83.7	47.9	143.6
145	30.9	16.3	48.9



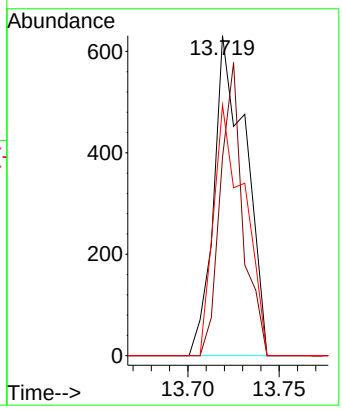


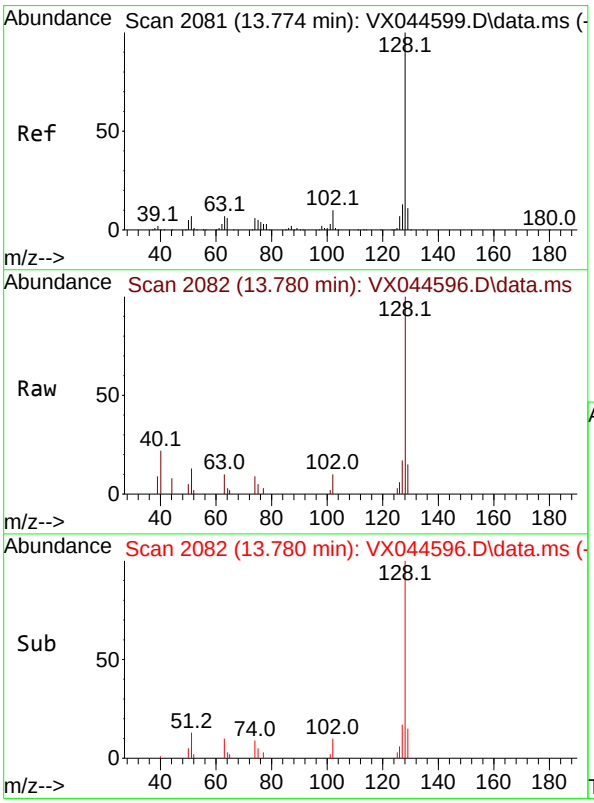
#94
Hexachlorobutadiene
Concen: 0.903 ug/l
RT: 13.719 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:225 Resp: 765

Ion	Ratio	Lower	Upper
225	100		
223	64.7	31.6	94.8
227	75.2	31.9	95.9

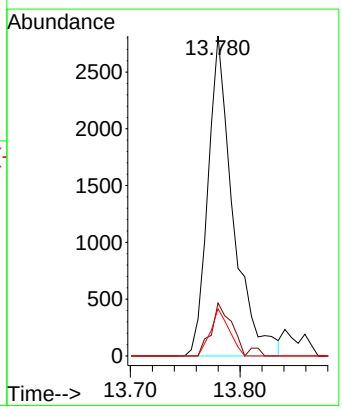


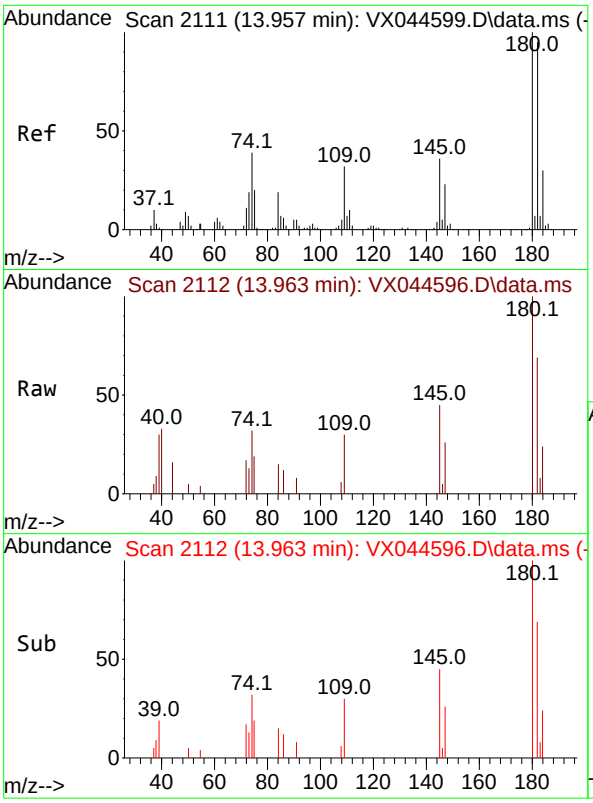


#95
Naphthalene
Concen: 0.679 ug/l
RT: 13.780 min Scan# 2082
Delta R.T. 0.006 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Tgt Ion:128 Resp: 4461

Ion	Ratio	Lower	Upper
128	100		
127	14.4	10.5	15.7
129	10.9	8.6	13.0



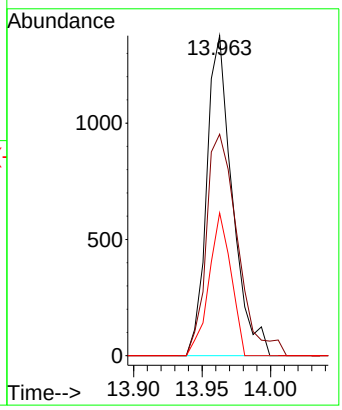


#96
1,2,3-Trichlorobenzene
Concen: 0.859 ug/l
RT: 13.963 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX044596.D
Acq: 07 Jan 2025 10:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:180 Resp: 1788

Ion	Ratio	Lower	Upper
180	100		
182	84.4	47.6	142.9
145	38.4	17.6	52.9



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044597.D
Acq On : 07 Jan 2025 10:29
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Quant Time: Jan 08 02:27:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 02:18:40 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	188117	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	328814	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	281481	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	122676	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	17286	5.699	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 11.400%#			
35) Dibromofluoromethane	5.391	113	11648	5.166	ug/l	0.01
Spiked Amount 50.000	Range 75 - 124		Recovery = 10.340%#			
50) Toluene-d8	8.647	98	39205	5.090	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 10.180%#			
62) 4-Bromofluorobenzene	11.079	95	13290	4.889	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 9.780%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	13312	4.891	ug/l	98
3) Chloromethane	1.294	50	14940	5.508	ug/l	90
4) Vinyl Chloride	1.374	62	13242	5.204	ug/l	92
5) Bromomethane	1.599	94	7148	5.423	ug/l	98
6) Chloroethane	1.666	64	6970	5.160	ug/l	89
7) Trichlorofluoromethane	1.874	101	19516	5.151	ug/l	99
8) Diethyl Ether	2.130	74	6099	4.556	ug/l	92
9) 1,1,2-Trichlorotrifluo...	2.319	101	11029	5.077	ug/l	95
10) Methyl Iodide	2.447	142	15781	5.210	ug/l	91
11) Tert butyl alcohol	3.001	59	10600	28.381	ug/l	99
12) 1,1-Dichloroethene	2.312	96	11046	5.249	ug/l	86
13) Acrolein	2.233	56	12556	25.426	ug/l	99
14) Allyl chloride	2.660	41	17002	4.858	ug/l	92
15) Acrylonitrile	3.068	53	28298	26.307	ug/l	100
16) Acetone	2.380	43	20234	21.165	ug/l	93
17) Carbon Disulfide	2.501	76	19658	4.517	ug/l	99
18) Methyl Acetate	2.703	43	15024	5.325	ug/l	97
19) Methyl tert-butyl Ether	3.111	73	37226	5.162	ug/l	99
20) Methylene Chloride	2.788	84	12356	5.066	ug/l	96
21) trans-1,2-Dichloroethene	3.087	96	10897	5.045	ug/l	97
22) Diisopropyl ether	3.757	45	39202	5.449	ug/l #	83
23) Vinyl Acetate	3.721	43	144231	24.790	ug/l	100
24) 1,1-Dichloroethane	3.605	63	22208	5.297	ug/l	99
25) 2-Butanone	4.562	43	36925	26.760	ug/l	95
26) 2,2-Dichloropropane	4.458	77	18007	4.968	ug/l	97
27) cis-1,2-Dichloroethene	4.489	96	14357	5.451	ug/l	91
28) Bromochloromethane	4.891	49	10190	5.222	ug/l #	15
29) Tetrahydrofuran	5.007	42	25119	26.583	ug/l	99
30) Chloroform	5.086	83	24763	5.479	ug/l	100
31) Cyclohexane	5.464	56	17152	4.983	ug/l	87
32) 1,1,1-Trichloroethane	5.379	97	19887	5.229	ug/l	97
36) 1,1-Dichloropropene	5.684	75	15012	5.149	ug/l #	82
37) Ethyl Acetate	4.721	43	14899	4.999	ug/l	98
38) Carbon Tetrachloride	5.666	117	15014	4.641	ug/l	98
39) Methylcyclohexane	7.373	83	18627	5.007	ug/l	96
40) Benzene	6.031	78	47650	5.191	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044597.D
Acq On : 07 Jan 2025 10:29
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Quant Time: Jan 08 02:27:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 02:18:40 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.934	41	8340	5.209	ug/l	#	91
42) 1,2-Dichloroethane	6.086	62	19283	5.371	ug/l		100
43) Isopropyl Acetate	6.336	43	24971	5.075	ug/l		98
44) Trichloroethene	7.123	130	11966	5.099	ug/l		91
45) 1,2-Dichloropropane	7.434	63	11185	4.997	ug/l		98
46) Dibromomethane	7.586	93	8827	5.071	ug/l		96
47) Bromodichloromethane	7.818	83	15524	4.901	ug/l		98
48) Methyl methacrylate	7.696	41	11428	4.870	ug/l		95
49) 1,4-Dioxane	7.677	88	3337	96.762	ug/l	#	76
51) 4-Methyl-2-Pentanone	8.574	43	74867	26.029	ug/l		98
52) Toluene	8.720	92	28506	5.147	ug/l		97
53) t-1,3-Dichloropropene	8.982	75	13689	4.521	ug/l	#	87
54) cis-1,3-Dichloropropene	8.366	75	15789	4.640	ug/l		95
55) 1,1,2-Trichloroethane	9.147	97	11331	5.218	ug/l		97
56) Ethyl methacrylate	9.122	69	14973	4.741	ug/l		97
57) 1,3-Dichloropropane	9.305	76	19219	5.271	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.238	63	37113	23.707	ug/l		100
59) 2-Hexanone	9.433	43	51047	25.095	ug/l		98
60) Dibromochloromethane	9.518	129	10022	4.629	ug/l		97
61) 1,2-Dibromoethane	9.610	107	11169	5.093	ug/l		96
64) Tetrachloroethene	9.269	164	10421	5.236	ug/l		90
65) Chlorobenzene	10.079	112	30656	5.132	ug/l		98
66) 1,1,1,2-Tetrachloroethane	10.159	131	9592	4.834	ug/l		96
67) Ethyl Benzene	10.195	91	52173	5.086	ug/l		97
68) m/p-Xylenes	10.299	106	38109	10.109	ug/l		97
69) o-Xylene	10.640	106	18309	4.812	ug/l		96
70) Styrene	10.659	104	28881	4.745	ug/l		100
71) Bromoform	10.799	173	5635	4.960	ug/l	#	98
73) Isopropylbenzene	10.963	105	46634	5.131	ug/l		98
74) N-amyl acetate	10.848	43	18861	5.114	ug/l		96
75) 1,1,2,2-Tetrachloroethane	11.213	83	16194	5.528	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	15521	6.311	ug/l		95
77) Bromobenzene	11.201	156	11951	5.413	ug/l		94
78) n-propylbenzene	11.305	91	53610	5.237	ug/l		99
79) 2-Chlorotoluene	11.366	91	35356	5.330	ug/l		98
80) 1,3,5-Trimethylbenzene	11.451	105	40862	5.422	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	3211	3.975	ug/l	#	82
82) 4-Chlorotoluene	11.457	91	39535	5.298	ug/l		95
83) tert-Butylbenzene	11.713	119	39571	5.274	ug/l		97
84) 1,2,4-Trimethylbenzene	11.750	105	37556	4.961	ug/l		97
85) sec-Butylbenzene	11.890	105	47269	5.173	ug/l		99
86) p-Isopropyltoluene	12.006	119	38691	5.046	ug/l		97
87) 1,3-Dichlorobenzene	11.969	146	20352	5.096	ug/l		97
88) 1,4-Dichlorobenzene	12.042	146	21839	5.248	ug/l		95
89) n-Butylbenzene	12.329	91	30630	4.731	ug/l		98
90) Hexachloroethane	12.536	117	5241	4.255	ug/l		100
91) 1,2-Dichlorobenzene	12.335	146	20848	5.165	ug/l		97
92) 1,2-Dibromo-3-Chloropr...	12.945	75	2550	4.591	ug/l		93
93) 1,2,4-Trichlorobenzene	13.591	180	11030	4.650	ug/l		97
94) Hexachlorobutadiene	13.725	225	4946	5.007	ug/l		95
95) Naphthalene	13.774	128	34693	4.533	ug/l		99
96) 1,2,3-Trichlorobenzene	13.963	180	11316	4.667	ug/l		98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044597.D
Acq On : 07 Jan 2025 10:29
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Quant Time: Jan 08 02:27:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 02:18:40 2025
Response via : Initial Calibration

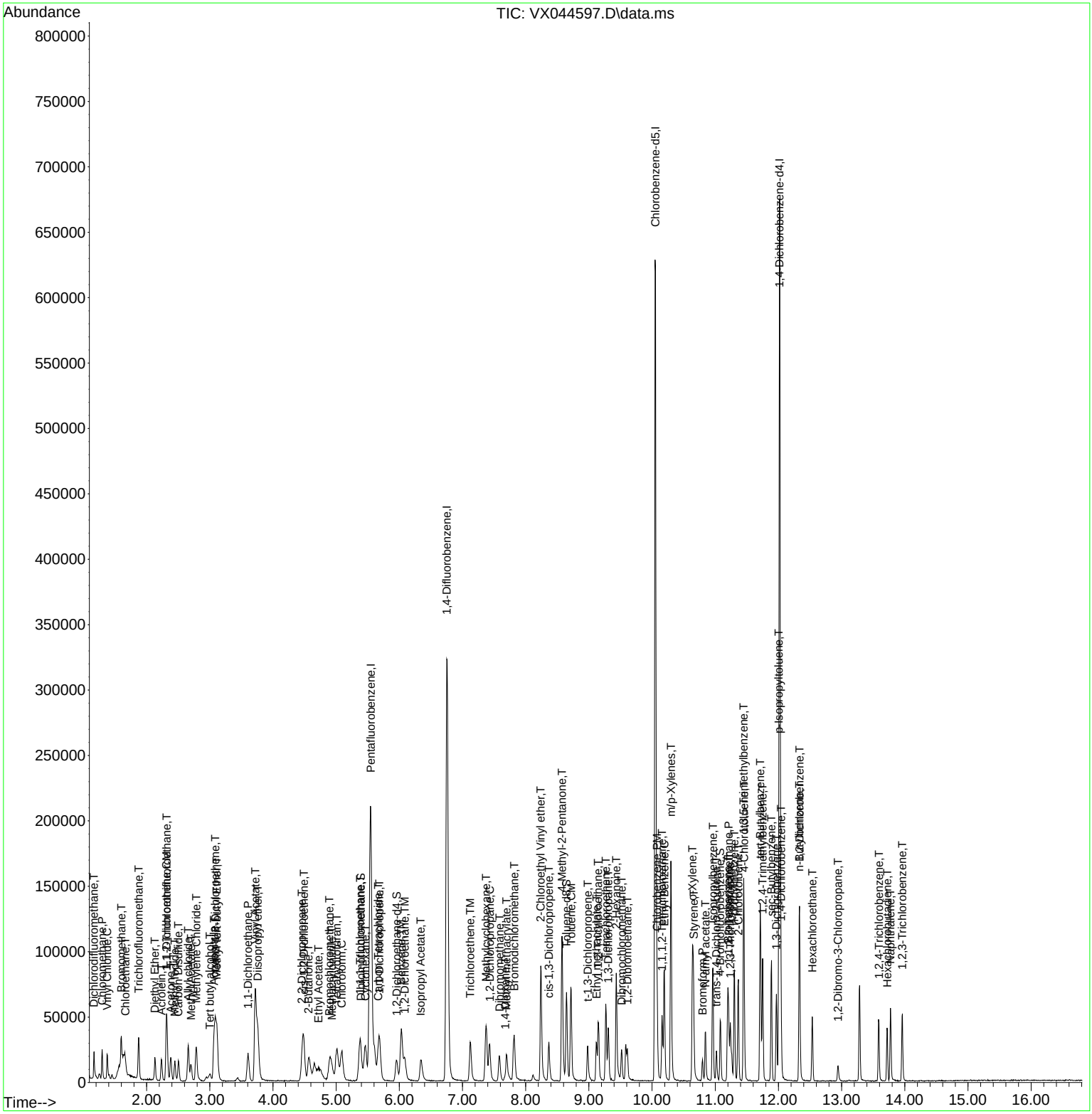
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

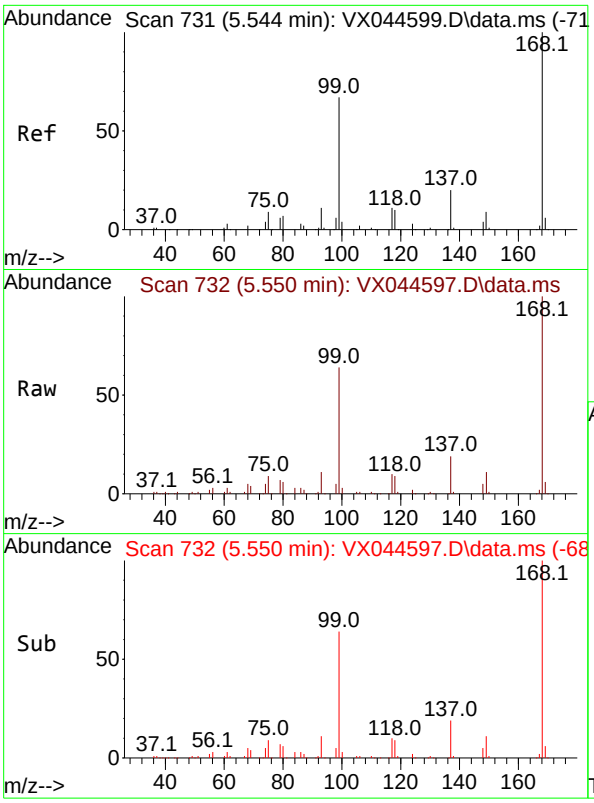
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044597.D
Acq On : 07 Jan 2025 10:29
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Quant Time: Jan 08 02:27:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 02:18:40 2025
Response via : Initial Calibration



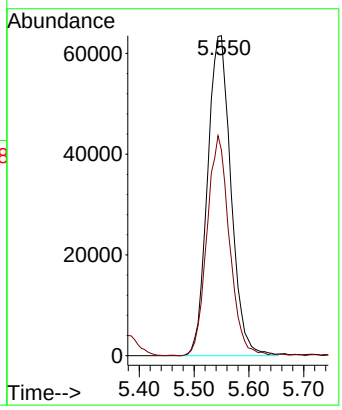


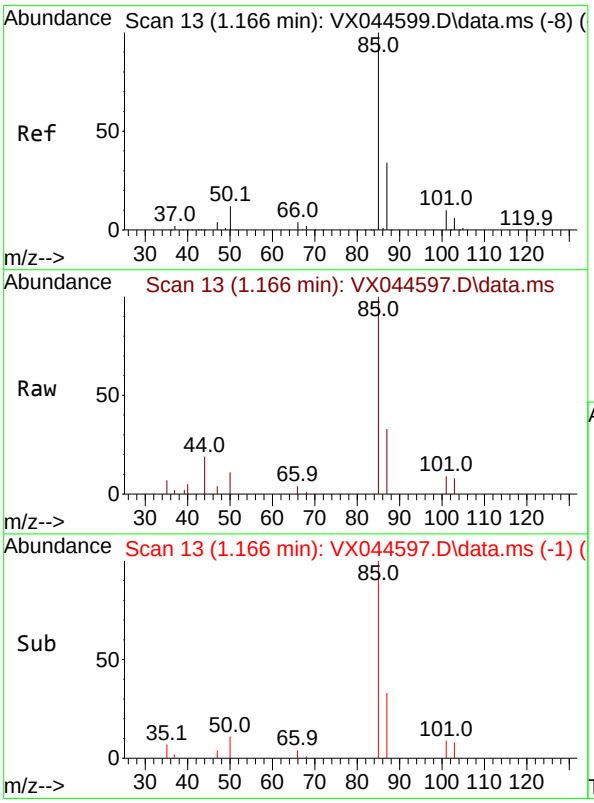
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:168 Resp: 188117

Ion	Ratio	Lower	Upper
168	100		
99	64.3	53.5	80.3

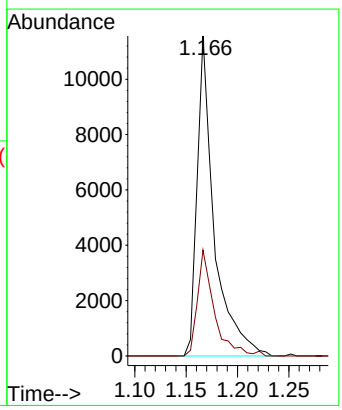


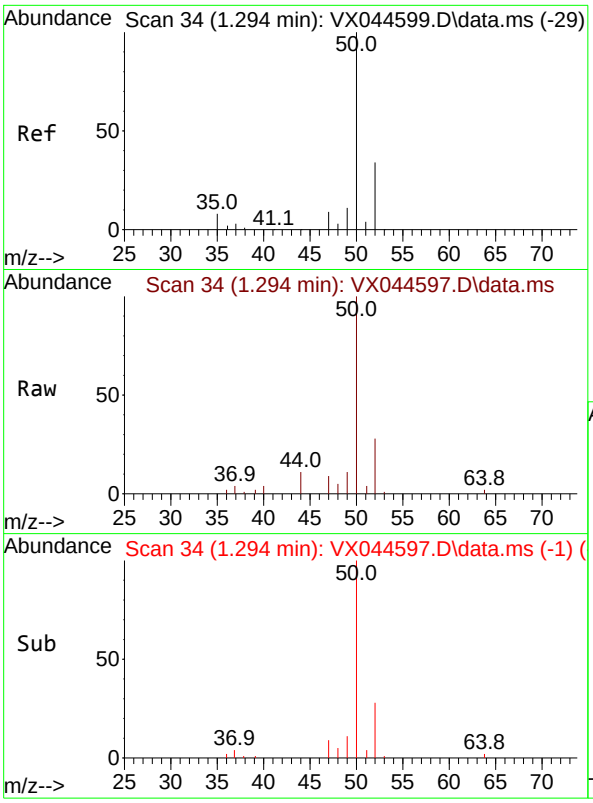


#2
Dichlorodifluoromethane
Concen: 4.891 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 85 Resp: 13312

Ion	Ratio	Lower	Upper
85	100		
87	33.1	17.2	51.5



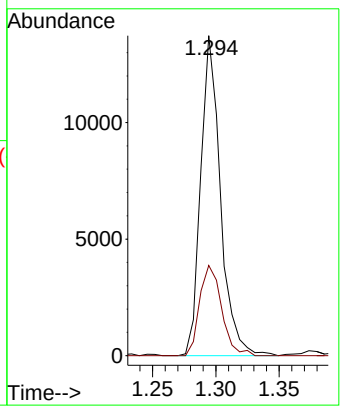


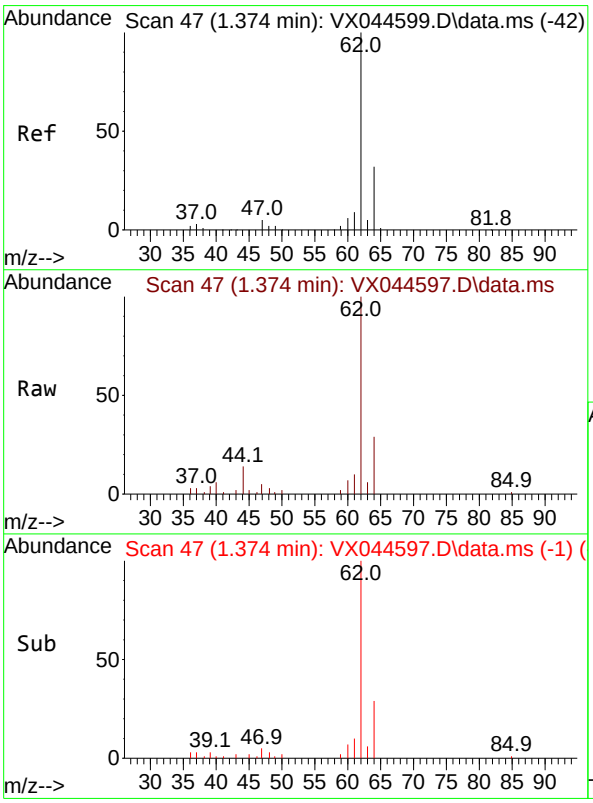
#3
Chloromethane
Concen: 5.508 ug/l
RT: 1.294 min Scan# 34
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 50 Resp: 14940

Ion	Ratio	Lower	Upper
50	100		
52	28.2	27.0	40.4

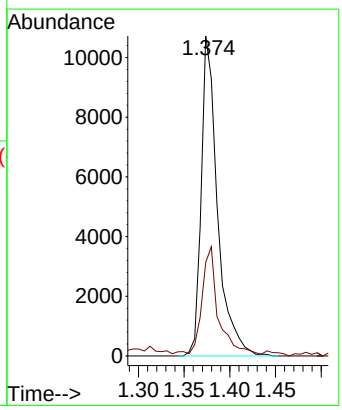


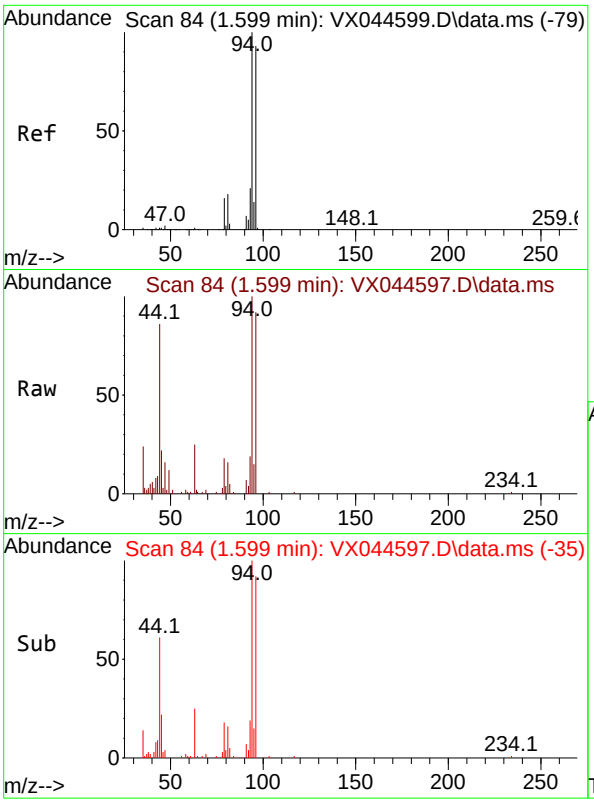


#4
Vinyl Chloride
Concen: 5.204 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 62 Resp: 13242

Ion	Ratio	Lower	Upper
62	100		
64	28.2	26.0	39.0



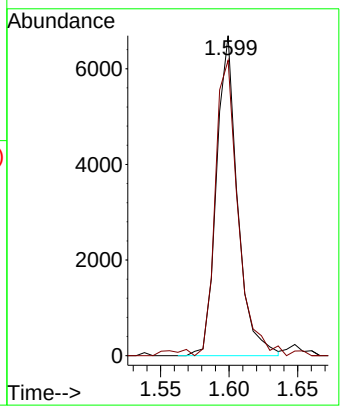


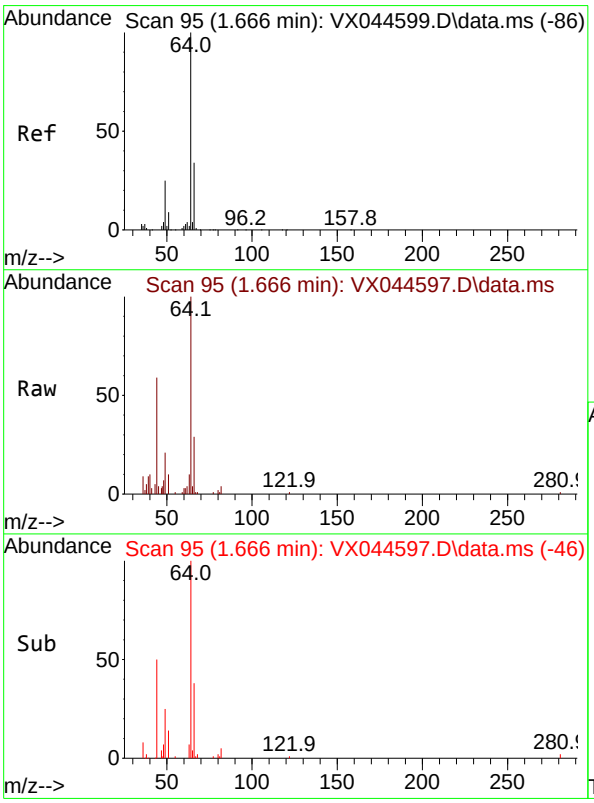
#5
Bromomethane
Concen: 5.423 ug/l
RT: 1.599 min Scan# 84
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 94 Resp: 7148

Ion	Ratio	Lower	Upper
94	100		
96	91.3	74.6	112.0

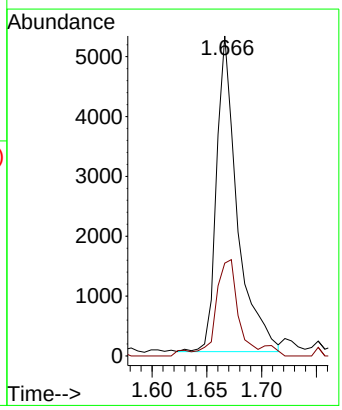


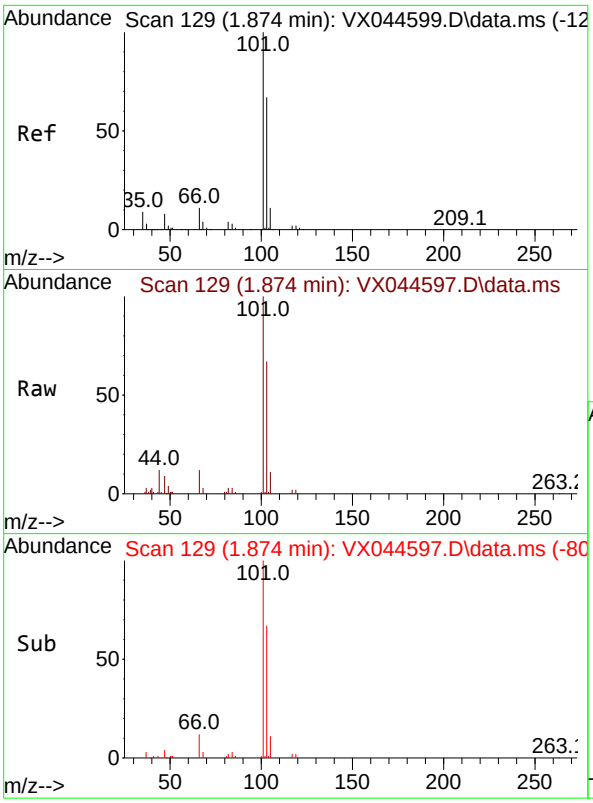


#6
Chloroethane
Concen: 5.160 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 64 Resp: 6970

Ion	Ratio	Lower	Upper
64	100		
66	27.8	27.3	40.9



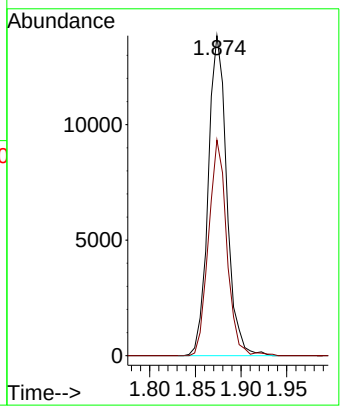


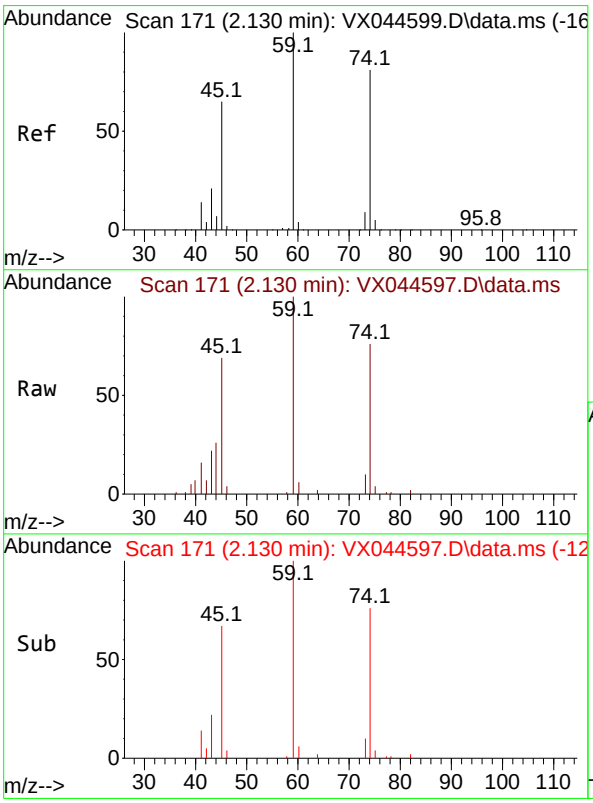
#7
Trichlorofluoromethane
Concen: 5.151 ug/l
RT: 1.874 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:101 Resp: 19516

Ion	Ratio	Lower	Upper
101	100		
103	67.4	53.3	79.9

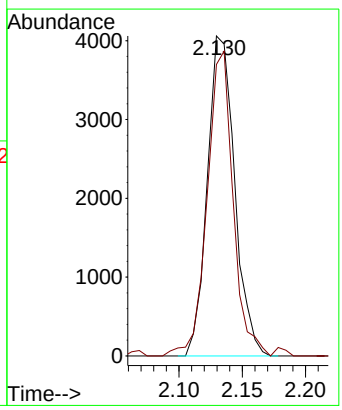


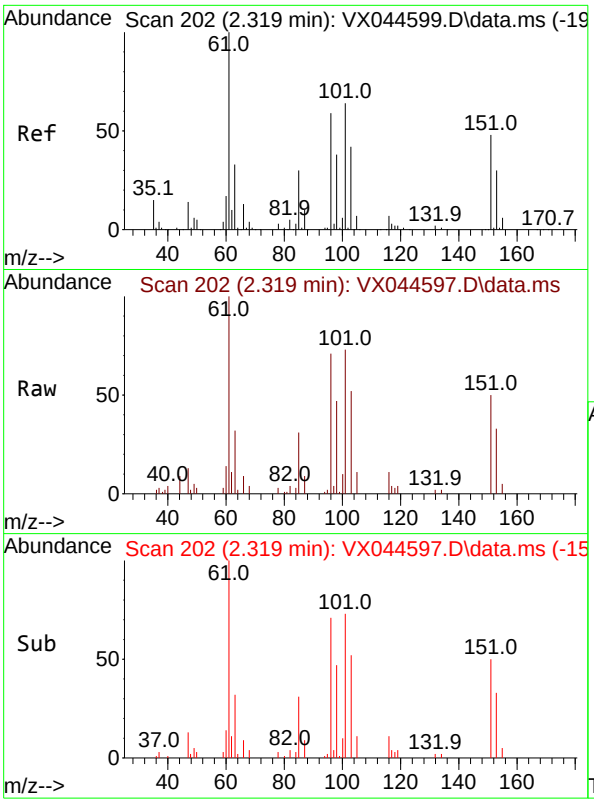


#8
Diethyl Ether
Concen: 4.556 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 74 Resp: 6099

Ion	Ratio	Lower	Upper
74	100		
45	90.3	41.7	125.1



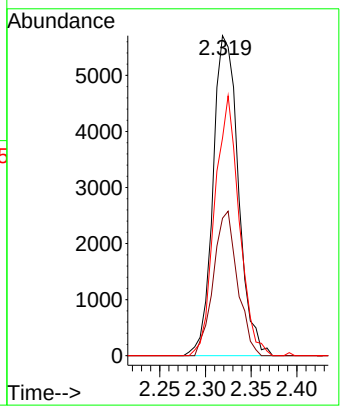


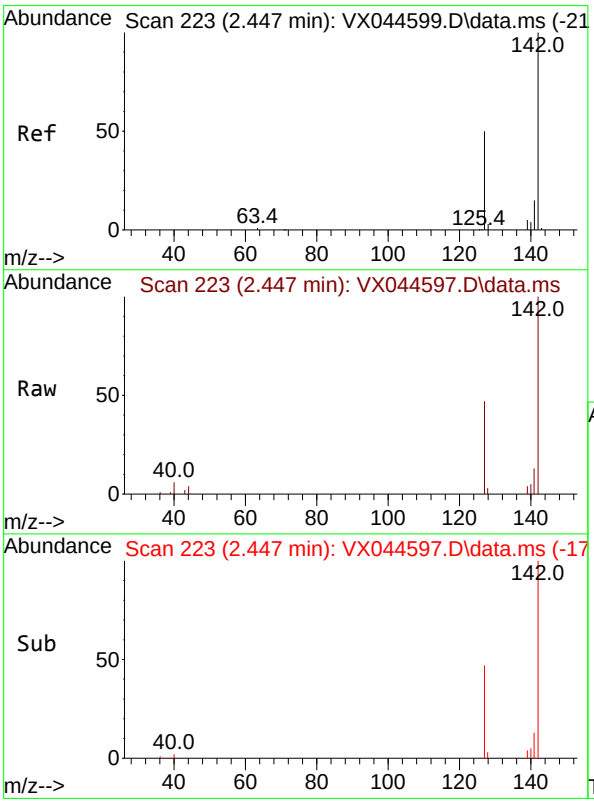
#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.077 ug/l
RT: 2.319 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:101 Resp: 11029

Ion	Ratio	Lower	Upper
101	100		
85	42.9	36.5	54.7
151	78.3	58.6	87.8

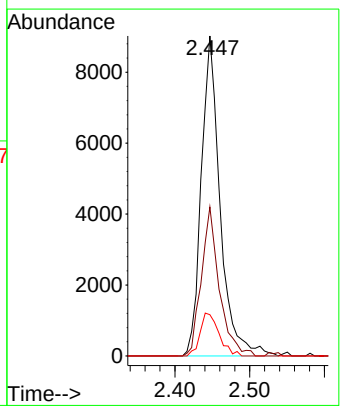


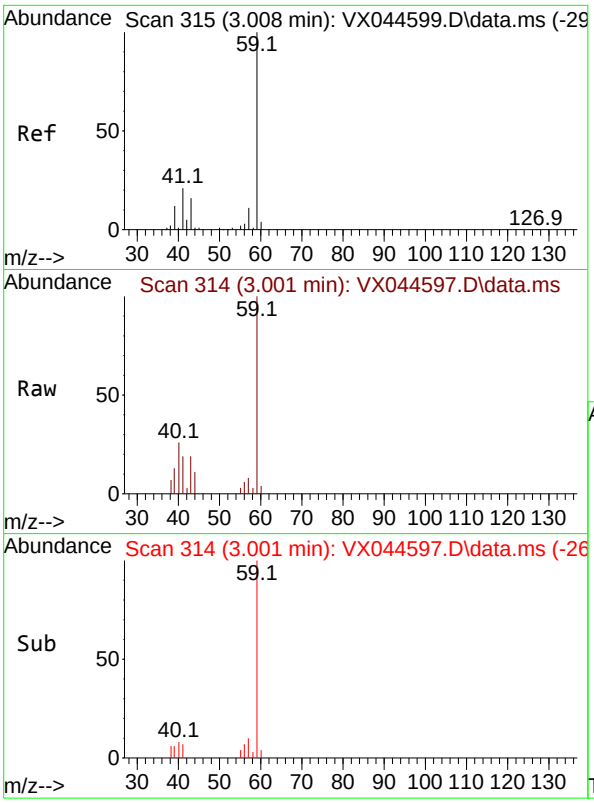


#10
Methyl Iodide
Concen: 5.210 ug/l
RT: 2.447 min Scan# 223
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion:142 Resp: 15781

Ion	Ratio	Lower	Upper
142	100		
127	44.4	41.9	62.9
141	13.5	11.8	17.6



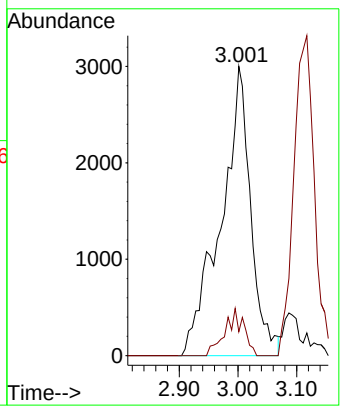


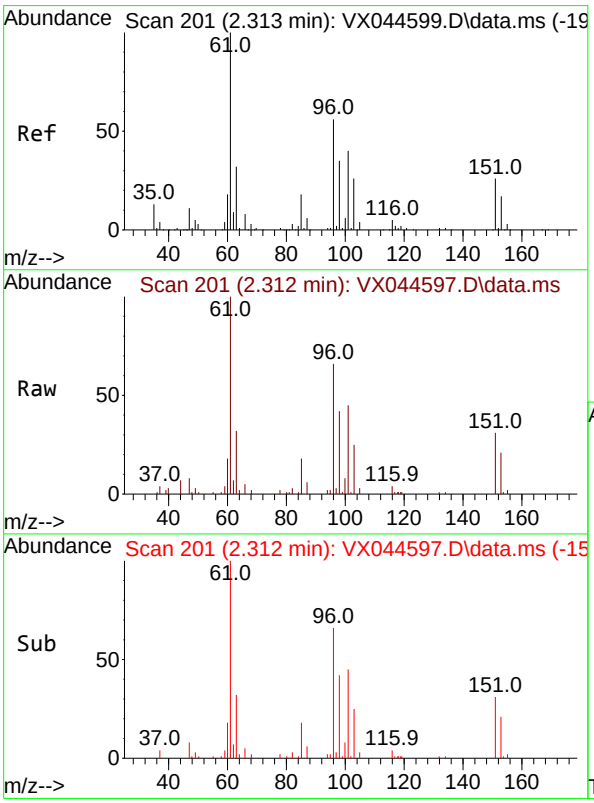
#11
Tert butyl alcohol
Concen: 28.381 ug/l
RT: 3.001 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 59 Resp: 10600

Ion	Ratio	Lower	Upper
59	100		
57	10.2	8.6	12.8

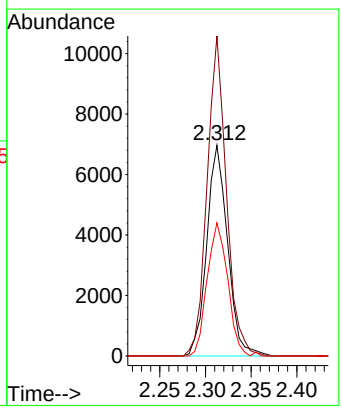


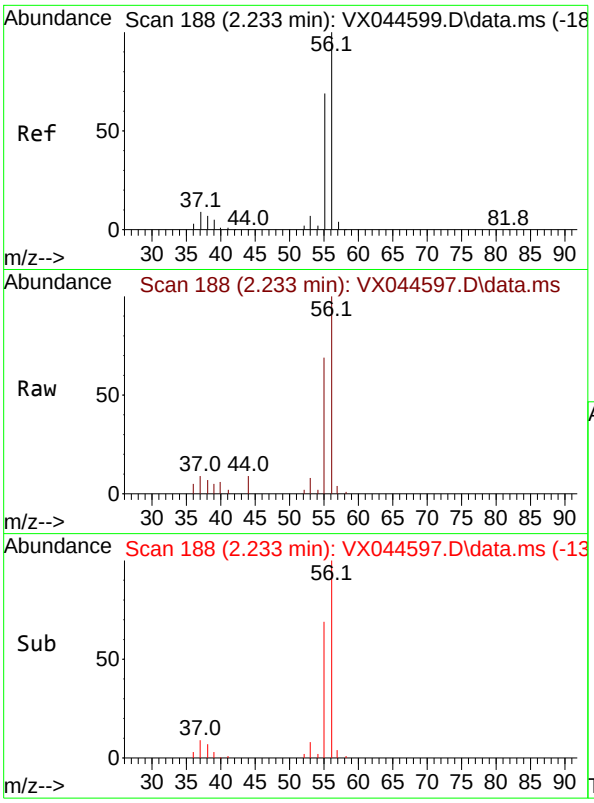


#12
1,1-Dichloroethene
Concen: 5.249 ug/l
RT: 2.312 min Scan# 201
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 96 Resp: 11046

Ion	Ratio	Lower	Upper
96	100		
61	152.0	143.3	214.9
98	63.2	50.6	76.0



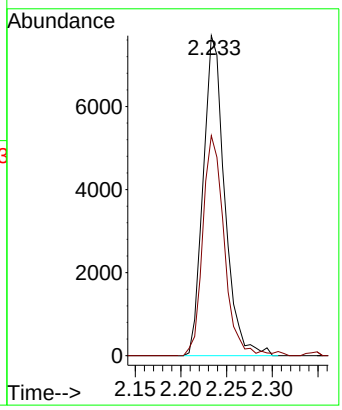


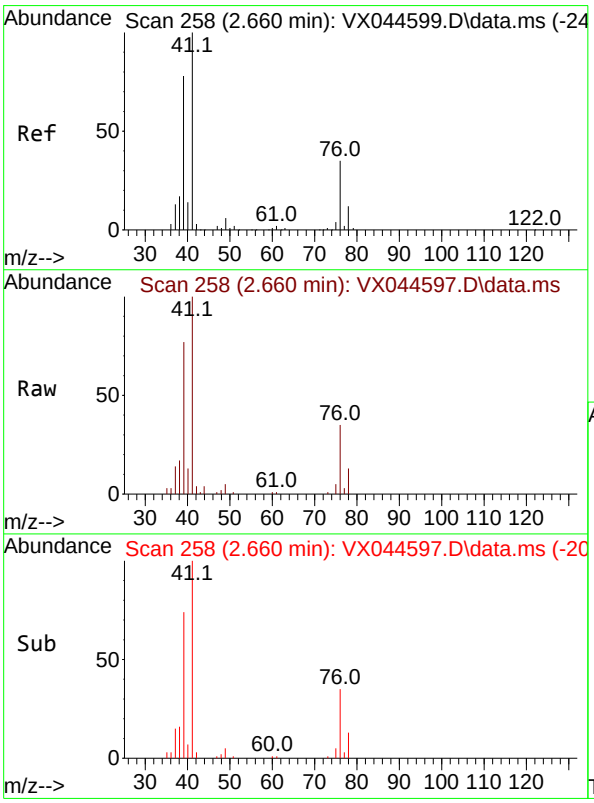
#13
Acrolein
Concen: 25.426 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 56 Resp: 12556

Ion	Ratio	Lower	Upper
56	100		
55	68.7	55.8	83.8

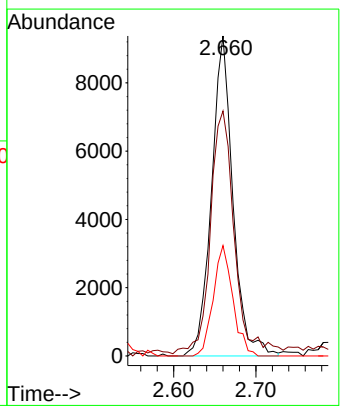


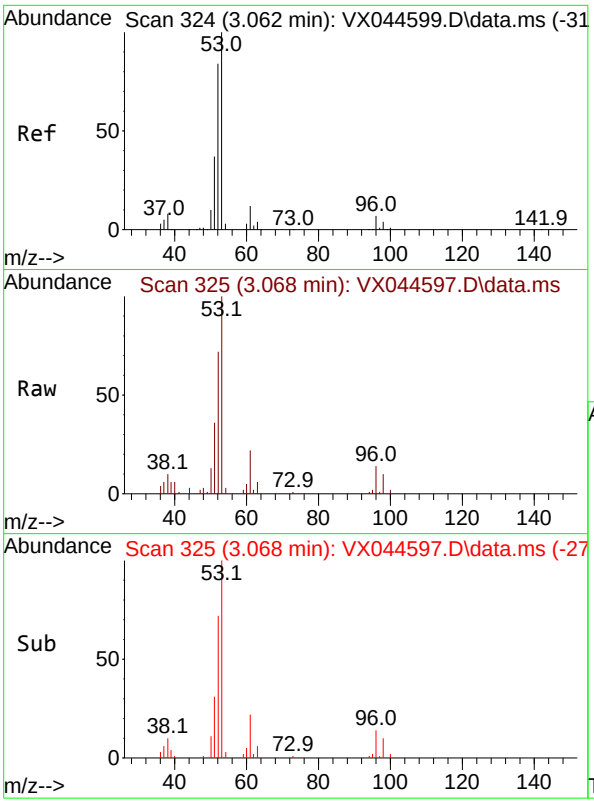


#14
Allyl chloride
Concen: 4.858 ug/l
RT: 2.660 min Scan# 258
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 41 Resp: 17002

Ion	Ratio	Lower	Upper
41	100		
39	83.9	60.2	90.2
76	31.5	25.9	38.9



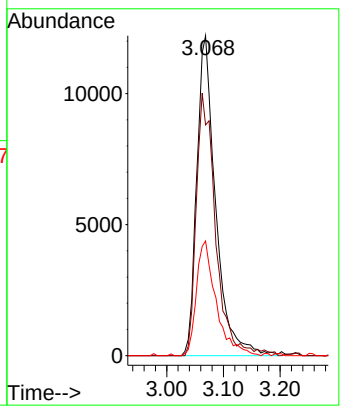


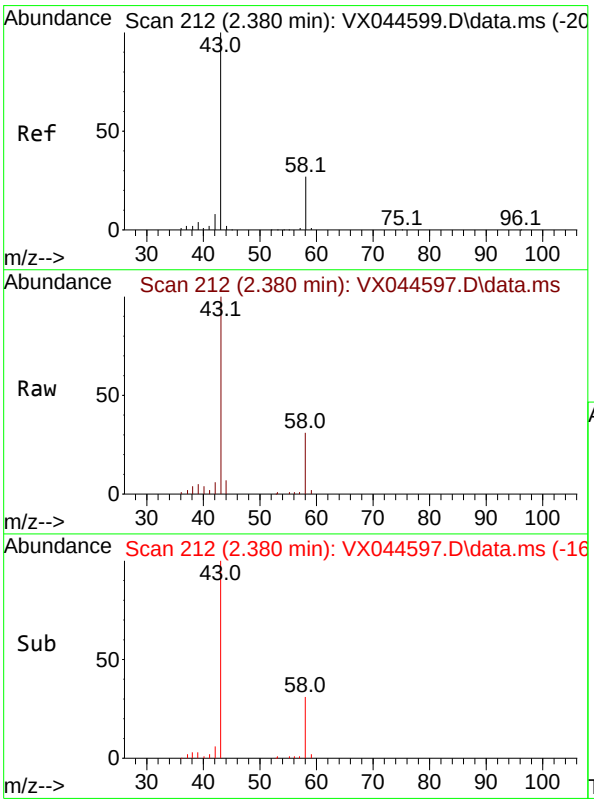
#15
Acrylonitrile
Concen: 26.307 ug/l
RT: 3.068 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 53 Resp: 28298

Ion	Ratio	Lower	Upper
53	100		
52	83.6	67.0	100.6
51	37.4	29.4	44.0

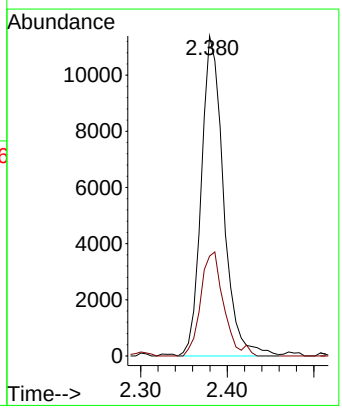


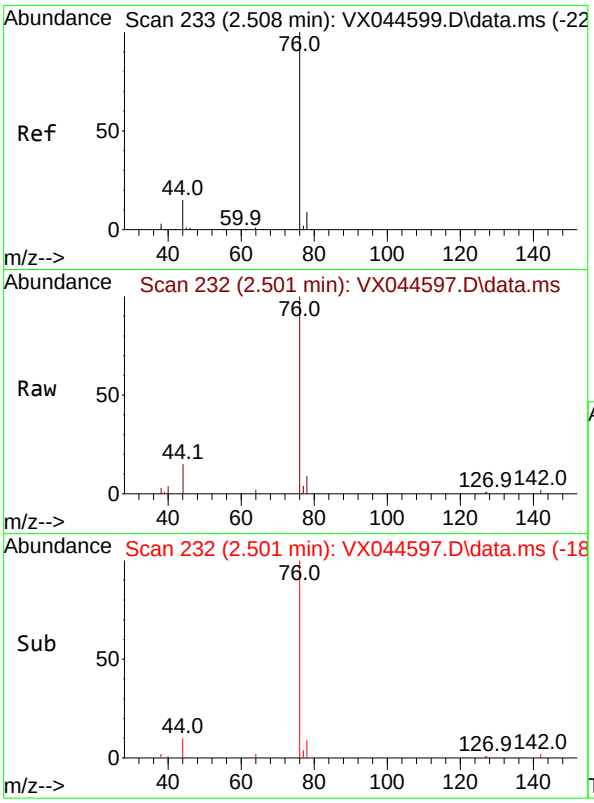


#16
Acetone
Concen: 21.165 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 43 Resp: 20234

Ion	Ratio	Lower	Upper
43	100		
58	31.2	22.0	33.0



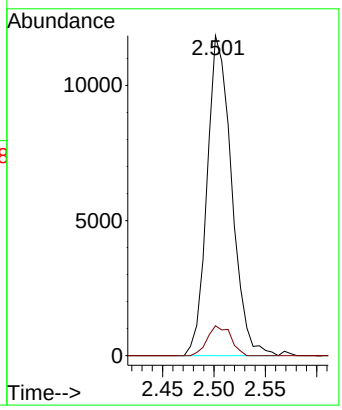


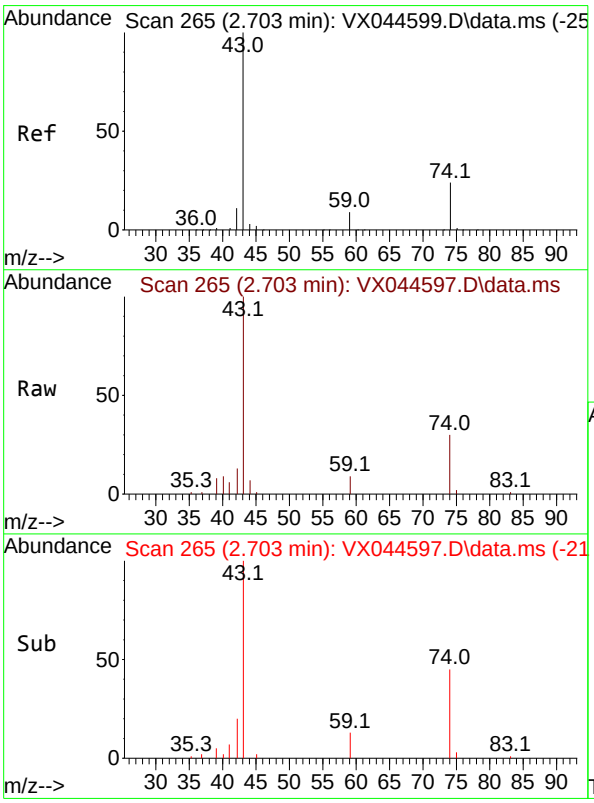
#17
Carbon Disulfide
Concen: 4.517 ug/l
RT: 2.501 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 76 Resp: 19658

Ion	Ratio	Lower	Upper
76	100		
78	9.3	7.1	10.7

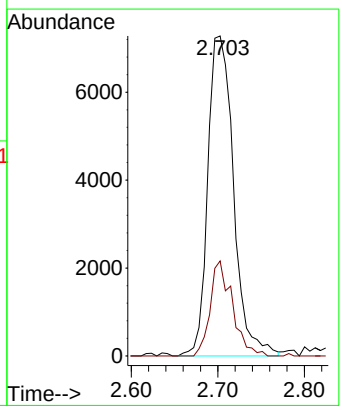


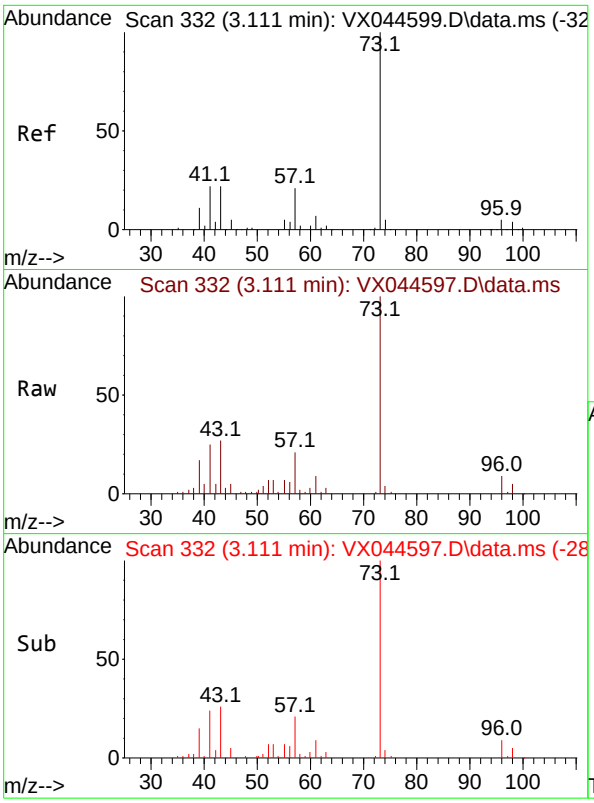


#18
Methyl Acetate
Concen: 5.325 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 43 Resp: 15024

Ion	Ratio	Lower	Upper
43	100		
74	25.6	19.3	28.9



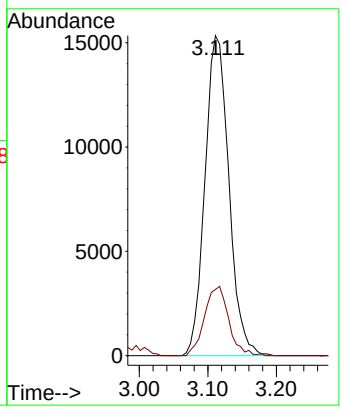


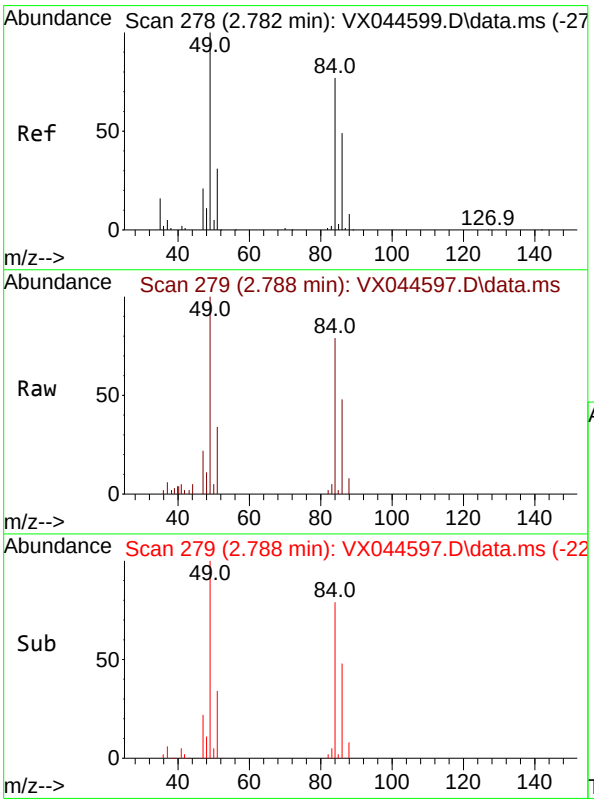
#19
Methyl tert-butyl Ether
Concen: 5.162 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 73 Resp: 37226

Ion	Ratio	Lower	Upper
73	100		
57	20.7	17.0	25.4

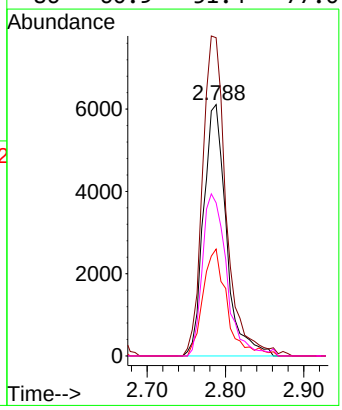


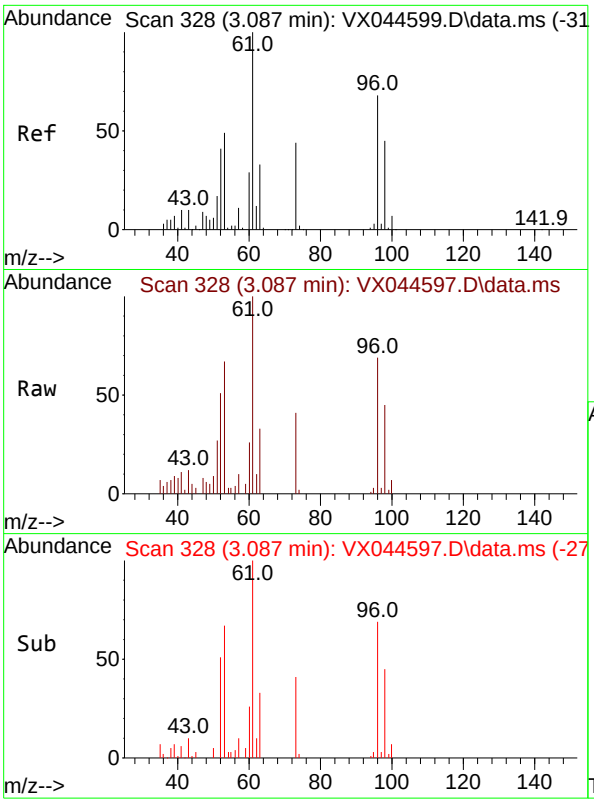


#20
Methylene Chloride
Concen: 5.066 ug/l
RT: 2.788 min Scan# 279
Delta R.T. 0.006 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 84 Resp: 12356

Ion	Ratio	Lower	Upper
84	100		
49	126.6	104.4	156.6
51	42.5	32.0	48.0
86	60.9	51.4	77.0



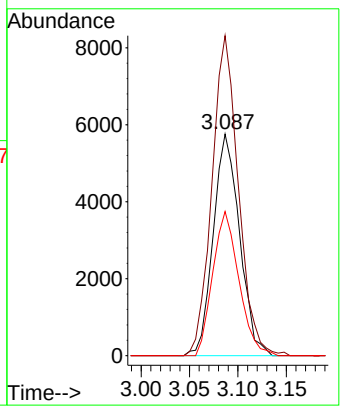


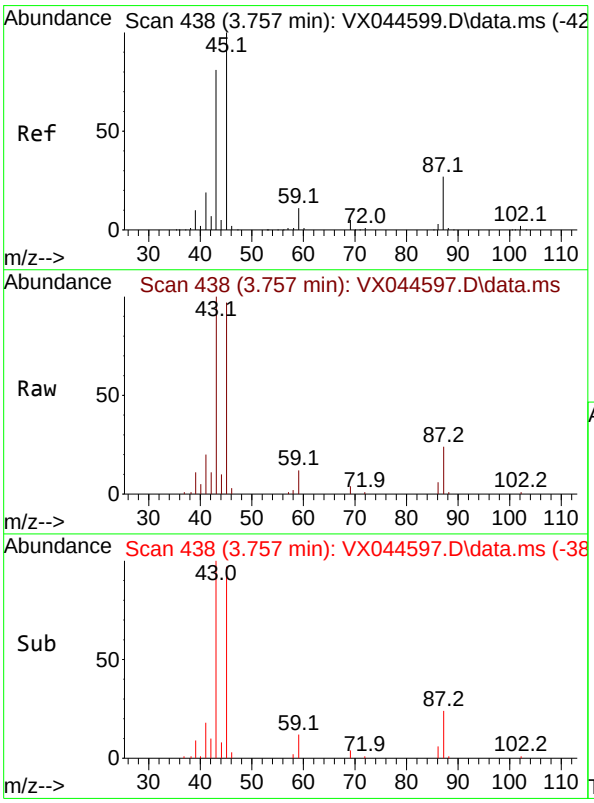
#21
trans-1,2-Dichloroethene
Concen: 5.045 ug/l
RT: 3.087 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 96 Resp: 10897

Ion	Ratio	Lower	Upper
96	100		
61	144.4	118.5	177.7
98	65.1	53.4	80.0

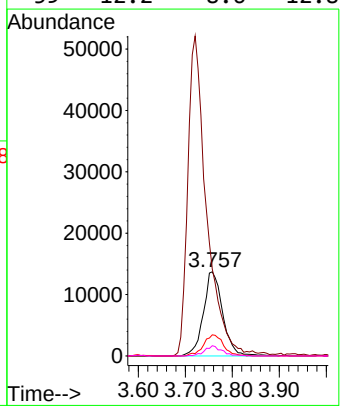


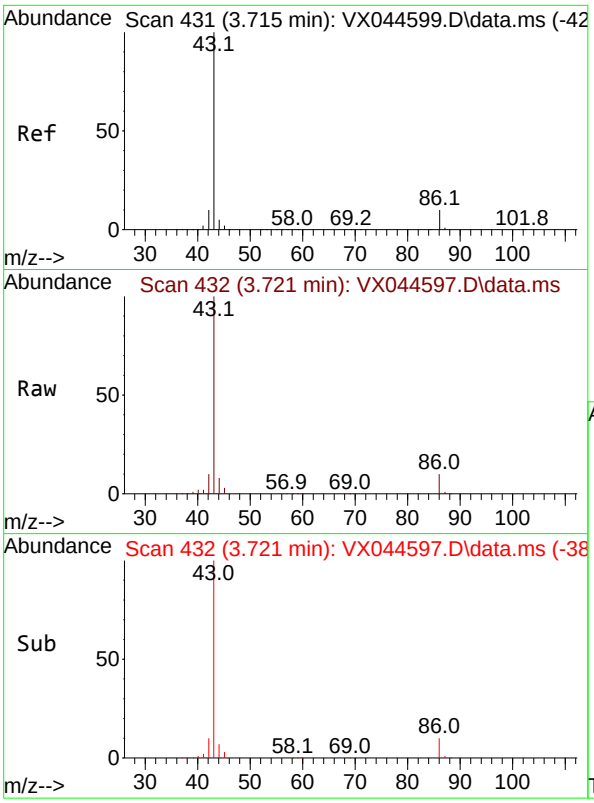


#22
Diisopropyl ether
Concen: 5.449 ug/l
RT: 3.757 min Scan# 438
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 45 Resp: 39202

Ion	Ratio	Lower	Upper
45	100		
43	100.8	64.6	97.0#
87	25.0	21.8	32.8
59	12.2	8.6	12.8



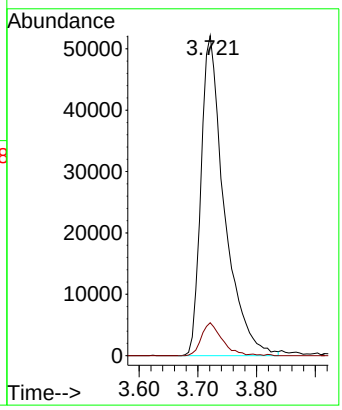


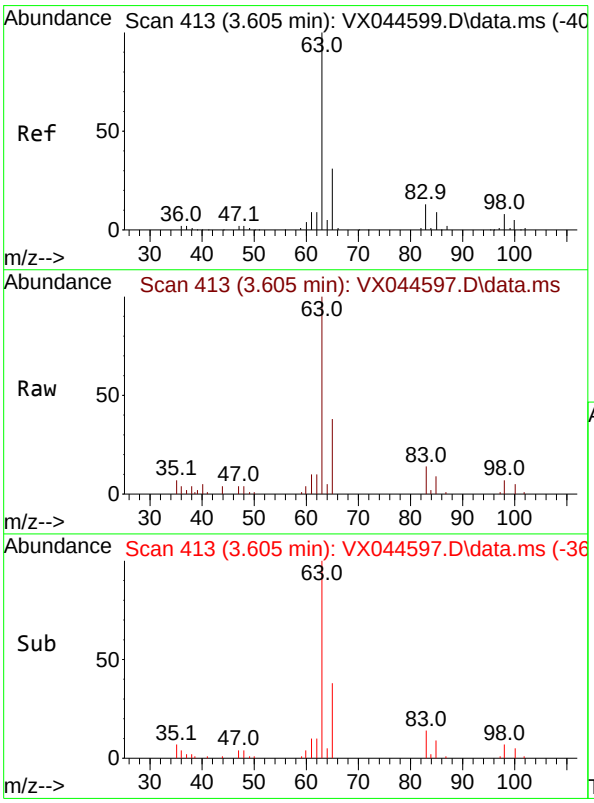
#23
Vinyl Acetate
Concen: 24.790 ug/l
RT: 3.721 min Scan# 4
Delta R.T. 0.006 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 144231

Ion	Ratio	Lower	Upper
43	100		
86	10.3	8.1	12.1

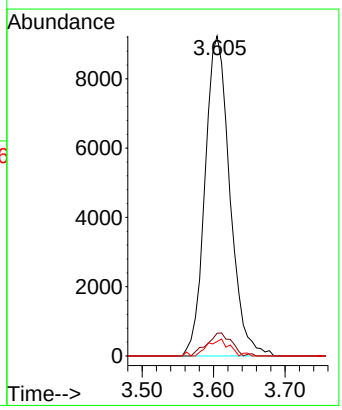


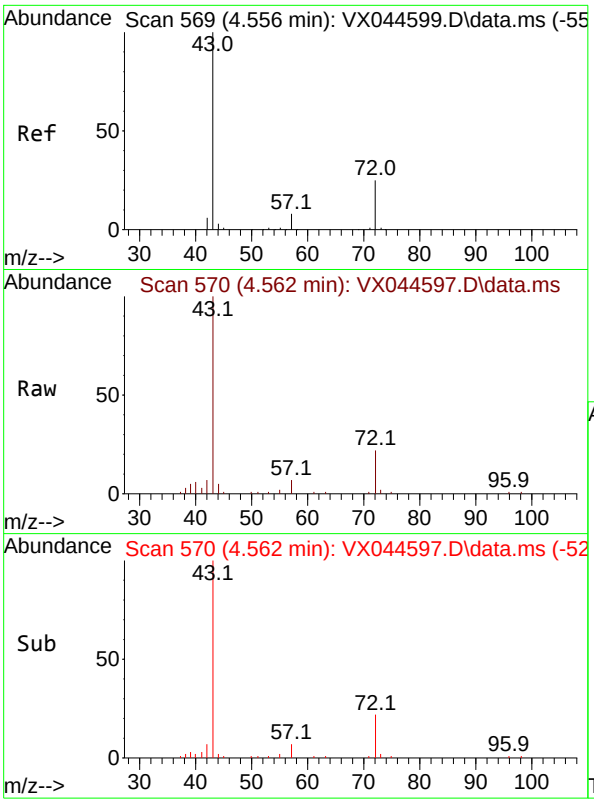


#24
1,1-Dichloroethane
Concen: 5.297 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 63 Resp: 22208

Ion	Ratio	Lower	Upper
63	100		
98	7.1	3.8	11.4
100	4.5	2.4	7.2



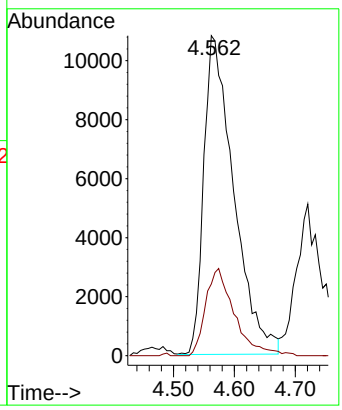


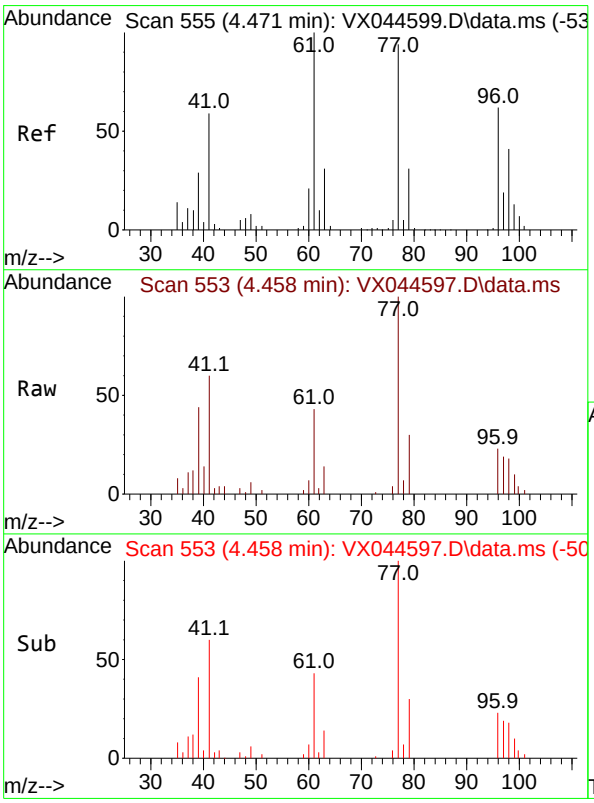
#25
2-Butanone
Concen: 26.760 ug/l
RT: 4.562 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 36925

Ion	Ratio	Lower	Upper
43	100		
72	22.5	20.2	30.2

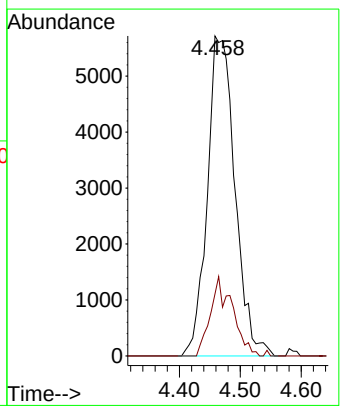


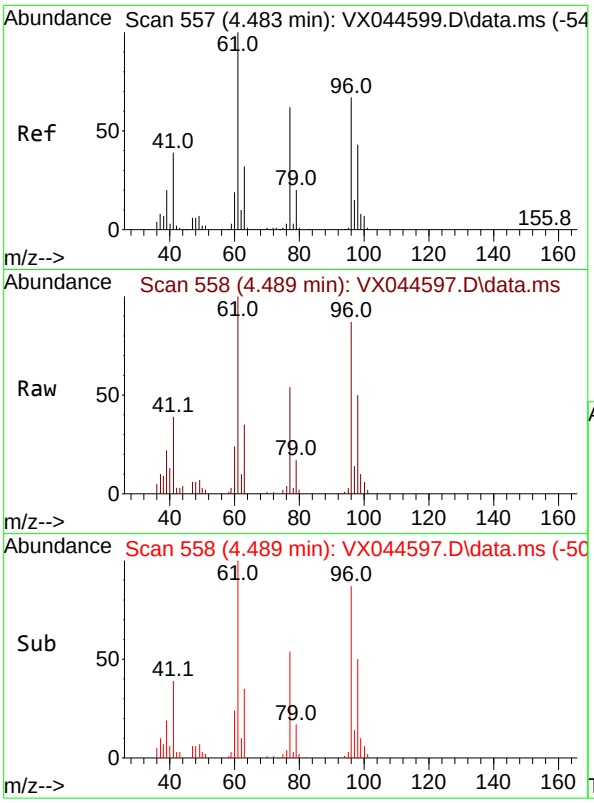


#26
2,2-Dichloropropane
Concen: 4.968 ug/l
RT: 4.458 min Scan# 553
Delta R.T. -0.012 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 77 Resp: 18007

Ion	Ratio	Lower	Upper
77	100		
97	20.0	10.7	32.1



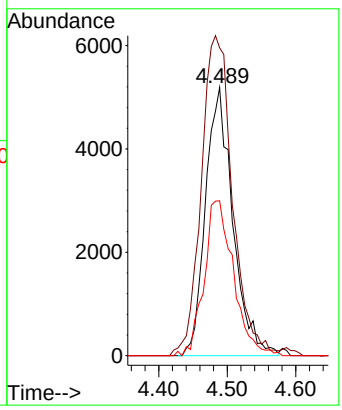


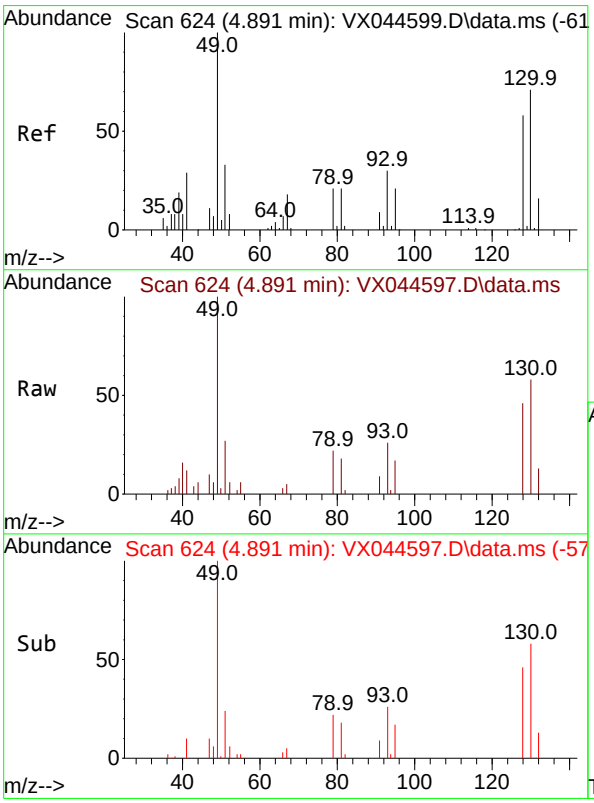
#27
cis-1,2-Dichloroethene
Concen: 5.451 ug/l
RT: 4.489 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 96 Resp: 14357

Ion	Ratio	Lower	Upper
96	100		
61	136.4	0.0	302.8
98	62.1	0.0	130.0

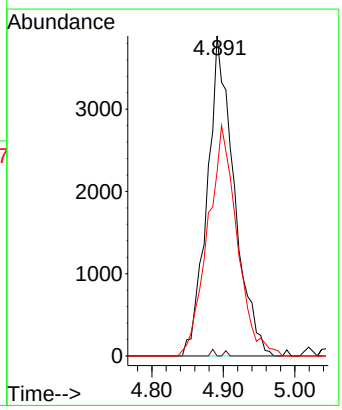


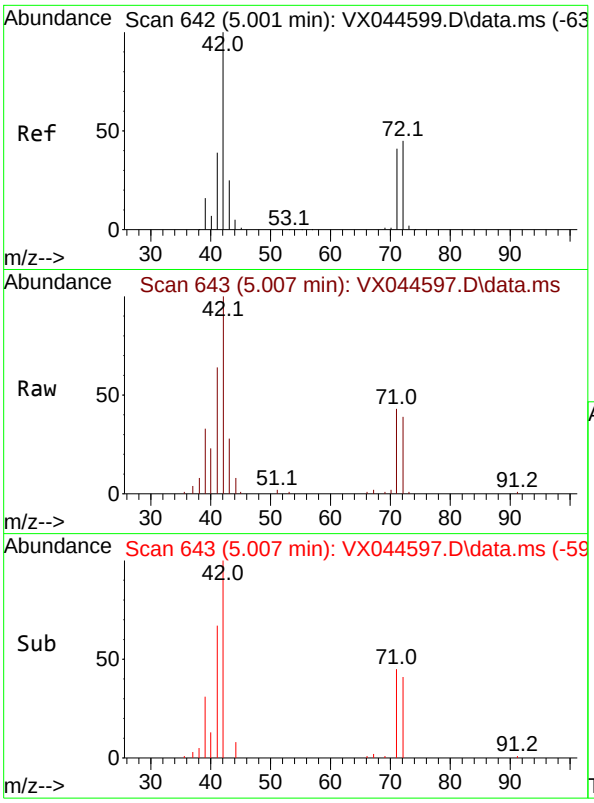


#28
Bromochloromethane
Concen: 5.222 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 49 Resp: 10190

Ion	Ratio	Lower	Upper
49	100		
129	0.3	0.0	4.2
130	0.0	58.8	88.2#



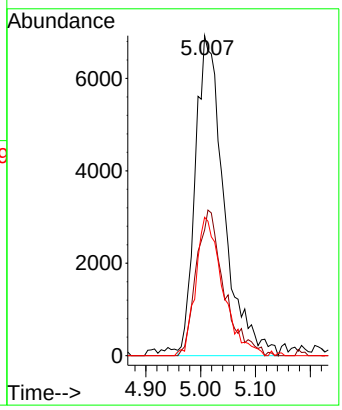


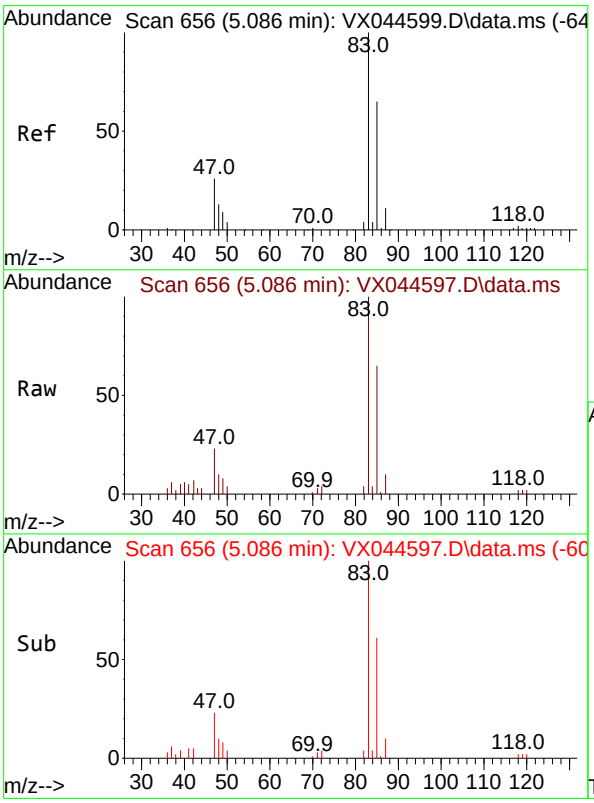
#29
Tetrahydrofuran
Concen: 26.583 ug/l
RT: 5.007 min Scan# 64
Delta R.T. 0.006 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 42 Resp: 25119

Ion	Ratio	Lower	Upper
42	100		
72	44.1	36.1	54.1
71	41.0	33.0	49.6

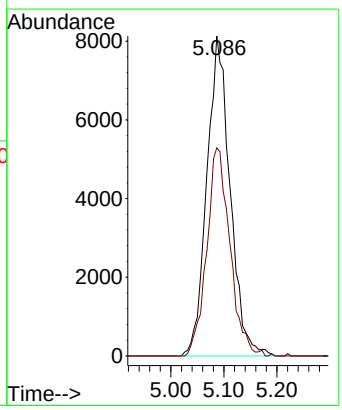


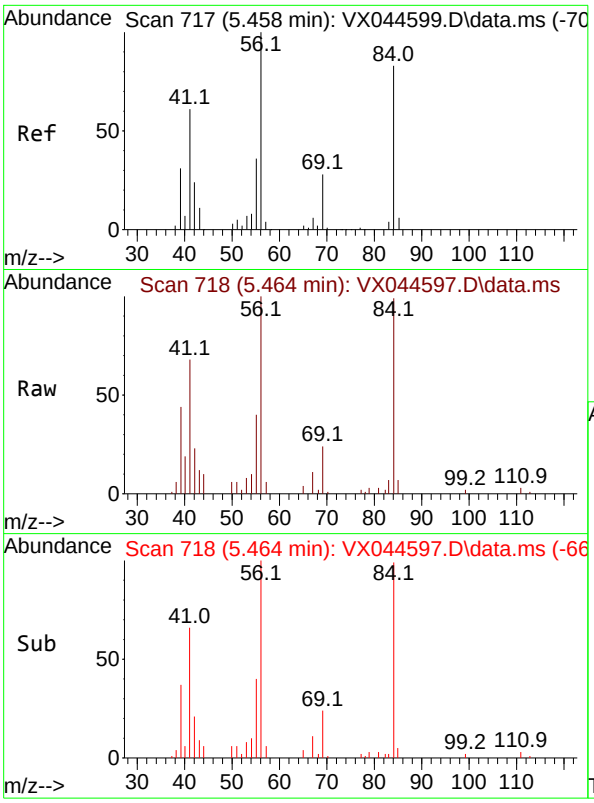


#30
Chloroform
Concen: 5.479 ug/l
RT: 5.086 min Scan# 656
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 83 Resp: 24763

Ion	Ratio	Lower	Upper
83	100		
85	65.1	52.3	78.5



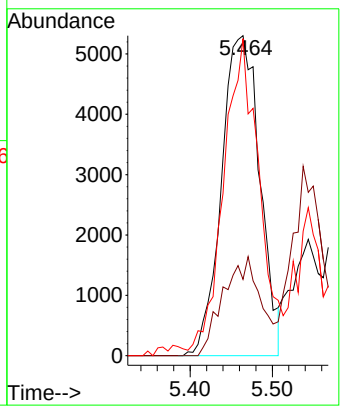


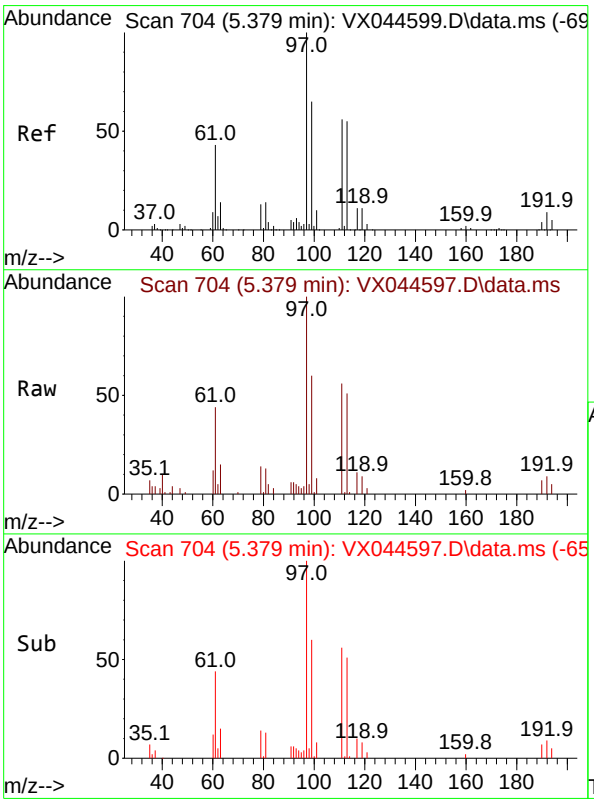
#31
Cyclohexane
Concen: 4.983 ug/l
RT: 5.464 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 56 Resp: 17152

Ion	Ratio	Lower	Upper
56	100		
69	23.9	22.2	33.4
84	96.2	66.6	100.0

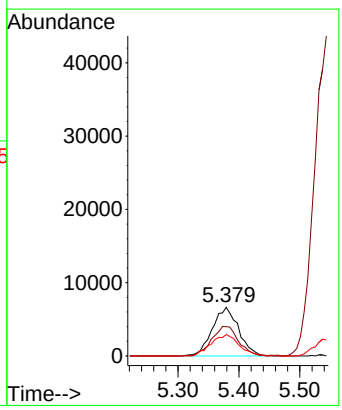


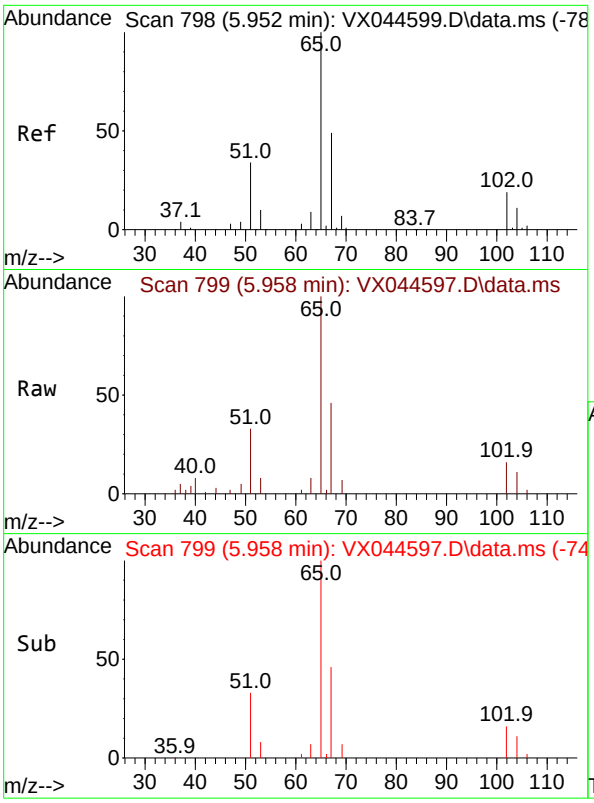


#32
1,1,1-Trichloroethane
Concen: 5.229 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 97 Resp: 19887

Ion	Ratio	Lower	Upper
97	100		
99	61.6	52.1	78.1
61	46.6	36.8	55.2



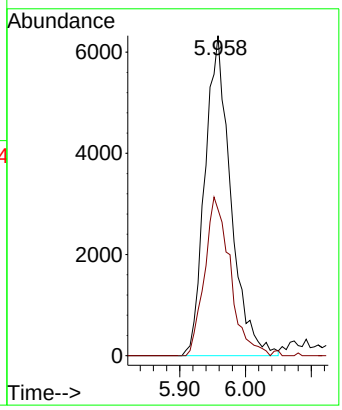


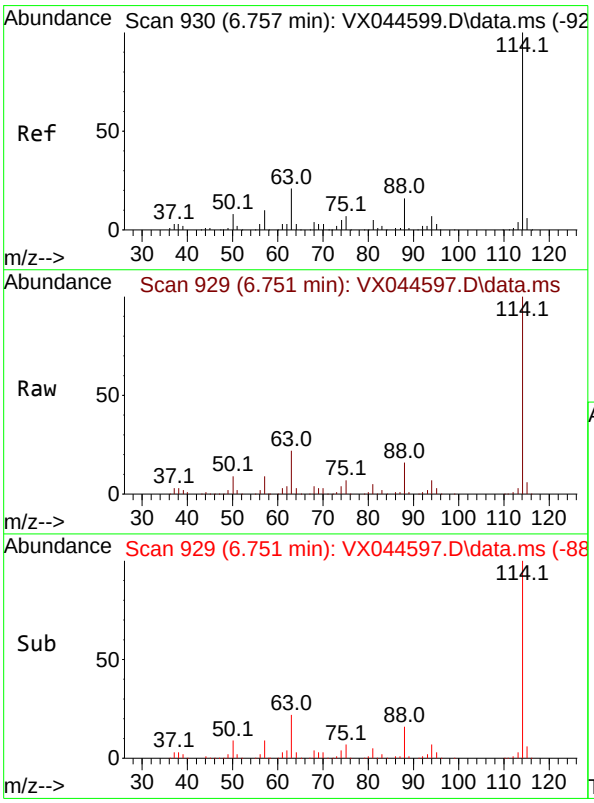
#33
1,2-Dichloroethane-d4
Concen: 5.699 ug/l
RT: 5.958 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 65 Resp: 17286

Ion	Ratio	Lower	Upper
65	100		
67	49.2	0.0	99.0

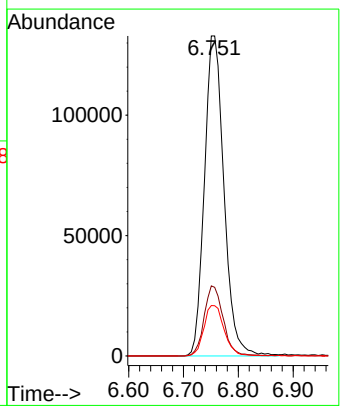


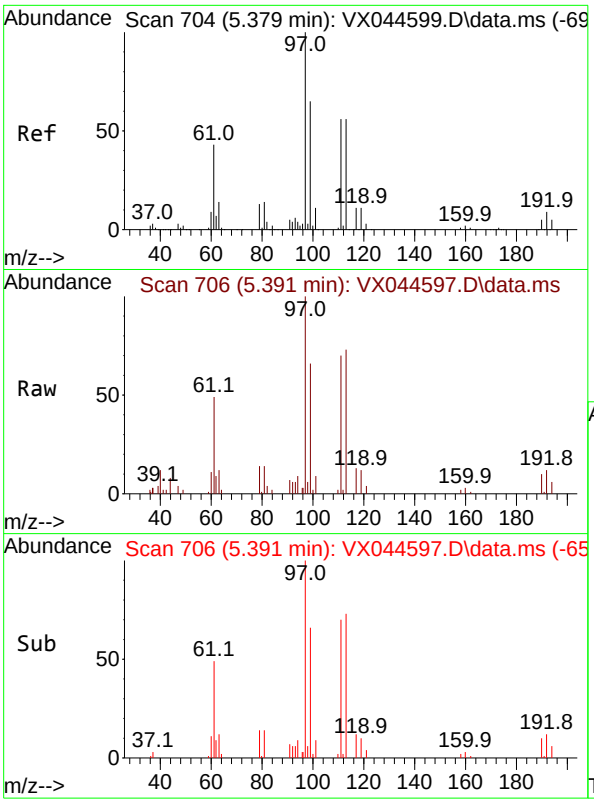


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. -0.006 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion:114 Resp: 328814

Ion	Ratio	Lower	Upper
114	100		
63	21.9	0.0	42.6
88	15.7	0.0	32.6



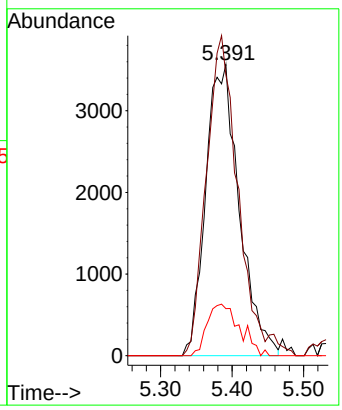


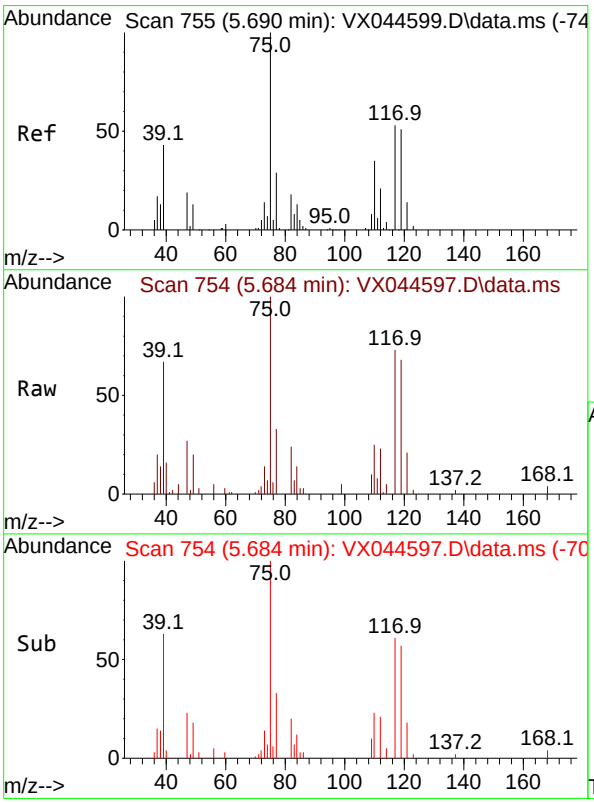
#35
Dibromofluoromethane
Concen: 5.166 ug/l
RT: 5.391 min Scan# 7
Delta R.T. 0.012 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:113 Resp: 11648

Ion	Ratio	Lower	Upper
113	100		
111	103.3	83.3	124.9
192	17.2	14.3	21.5

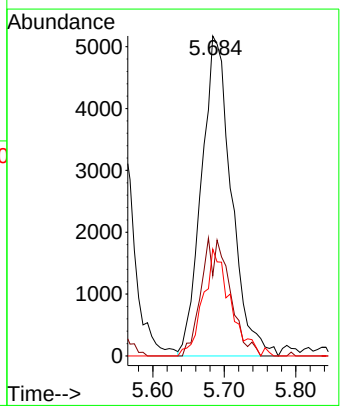


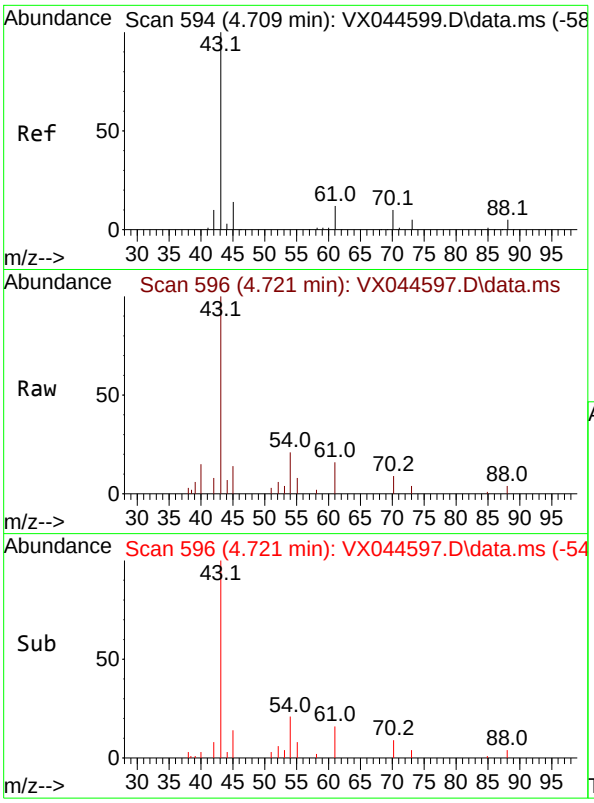


#36
1,1-Dichloropropene
Concen: 5.149 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 75 Resp: 15012

Ion	Ratio	Lower	Upper
75	100		
110	15.9	17.3	51.9#
77	30.1	24.7	37.1



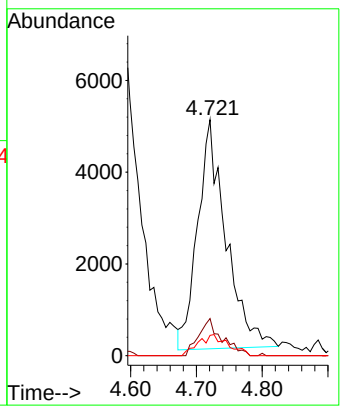


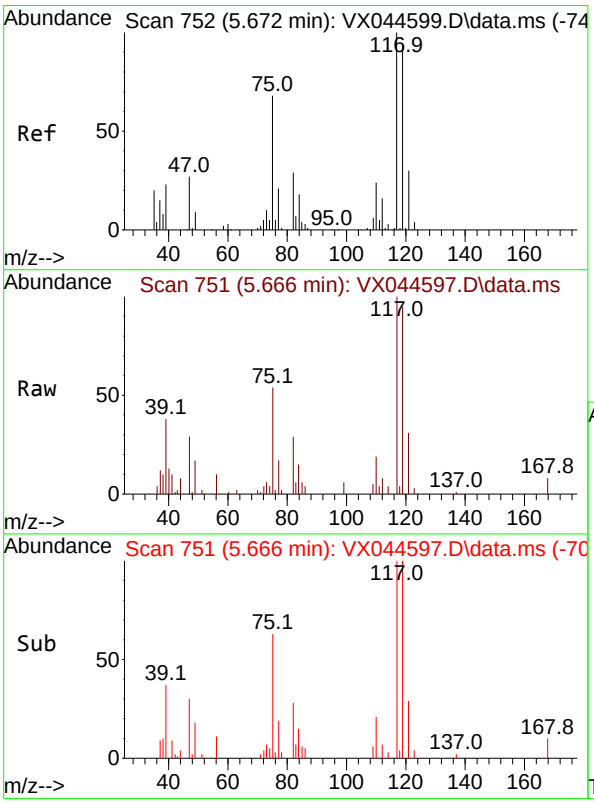
#37
Ethyl Acetate
Concen: 4.999 ug/l
RT: 4.721 min Scan# 5
Delta R.T. 0.012 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 14899

Ion	Ratio	Lower	Upper
43	100		
61	13.3	9.9	14.9
70	9.7	8.0	12.0

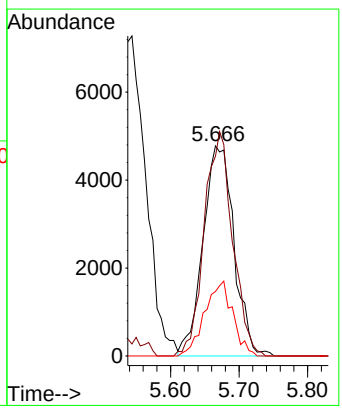


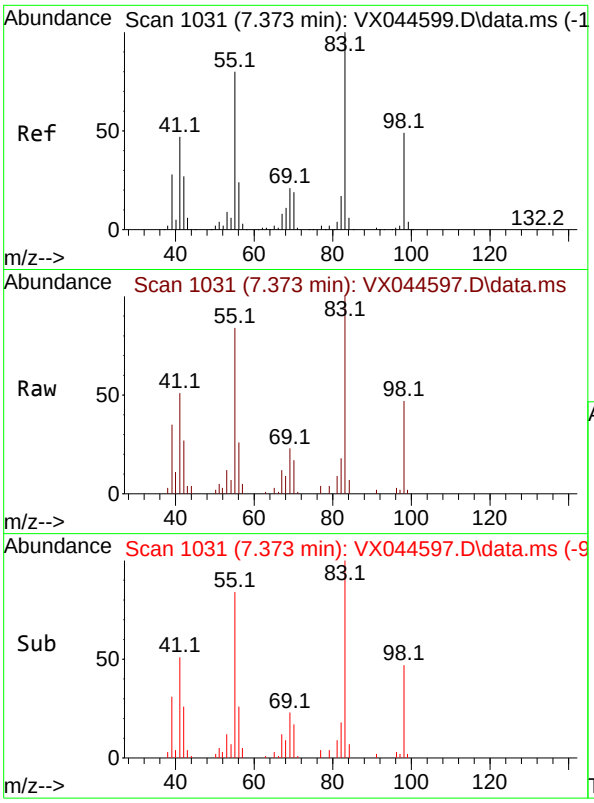


#38
Carbon Tetrachloride
Concen: 4.641 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion:117 Resp: 15014

Ion	Ratio	Lower	Upper
117	100		
119	95.1	74.5	111.7
121	30.7	24.1	36.1



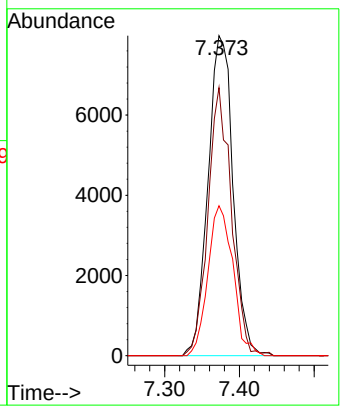


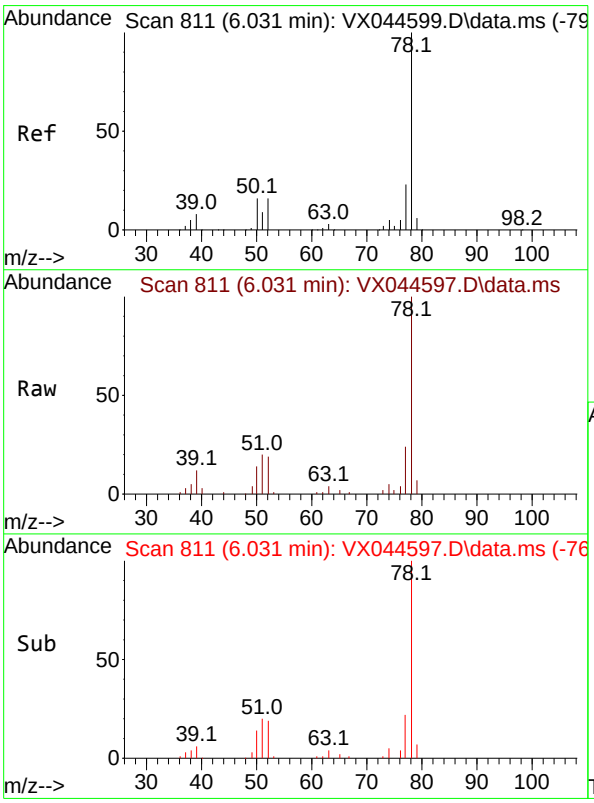
#39
Methylcyclohexane
Concen: 5.007 ug/l
RT: 7.373 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 83 Resp: 18627

Ion	Ratio	Lower	Upper
83	100		
55	83.7	64.1	96.1
98	46.8	38.9	58.3

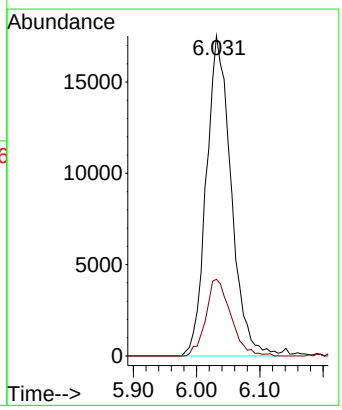


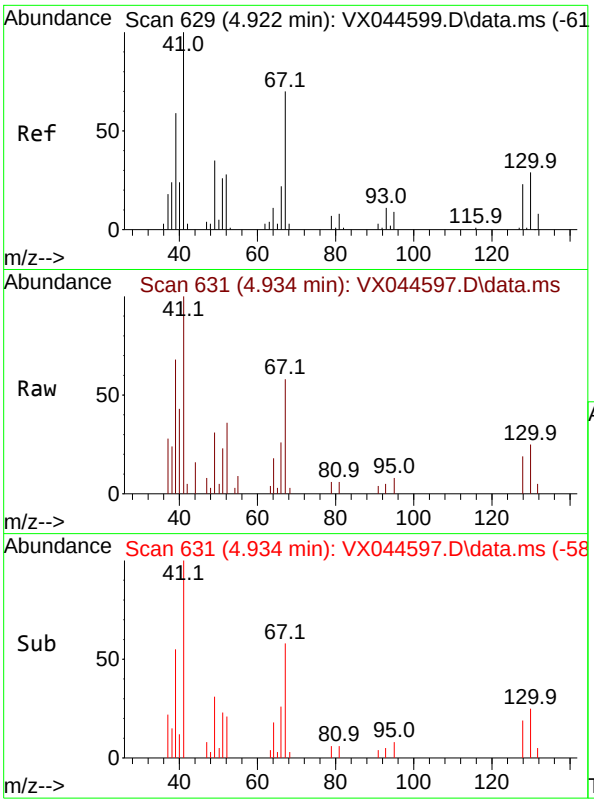


#40
Benzene
Concen: 5.191 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 78 Resp: 47650

Ion	Ratio	Lower	Upper
78	100		
77	23.9	18.8	28.2



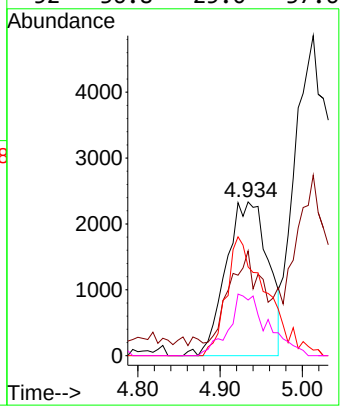


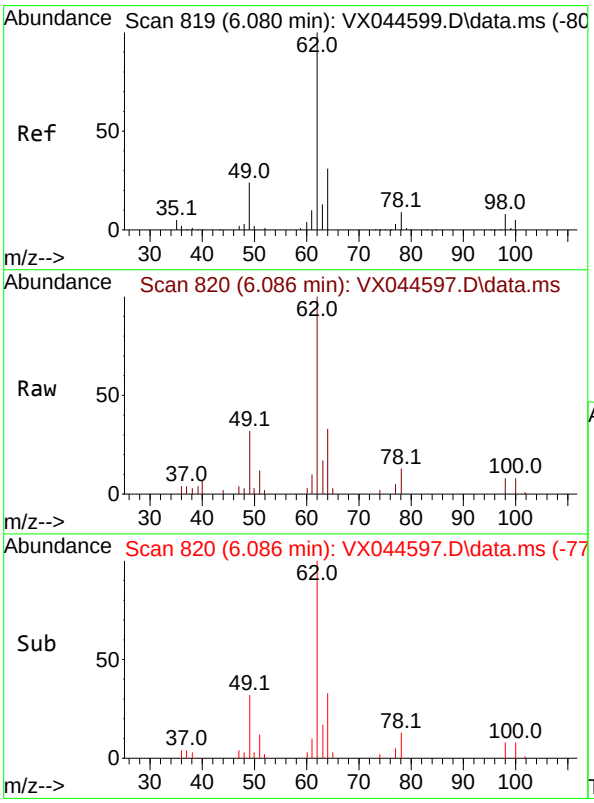
#41
Methacrylonitrile
Concen: 5.209 ug/l
RT: 4.934 min Scan# 6
Delta R.T. 0.012 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 41 Resp: 8340

Ion	Ratio	Lower	Upper
41	100		
39	46.3	47.0	70.4#
67	72.9	57.4	86.2
52	36.8	25.0	37.6

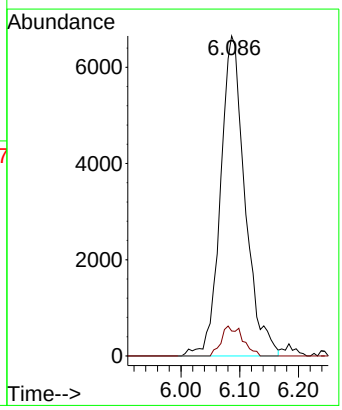


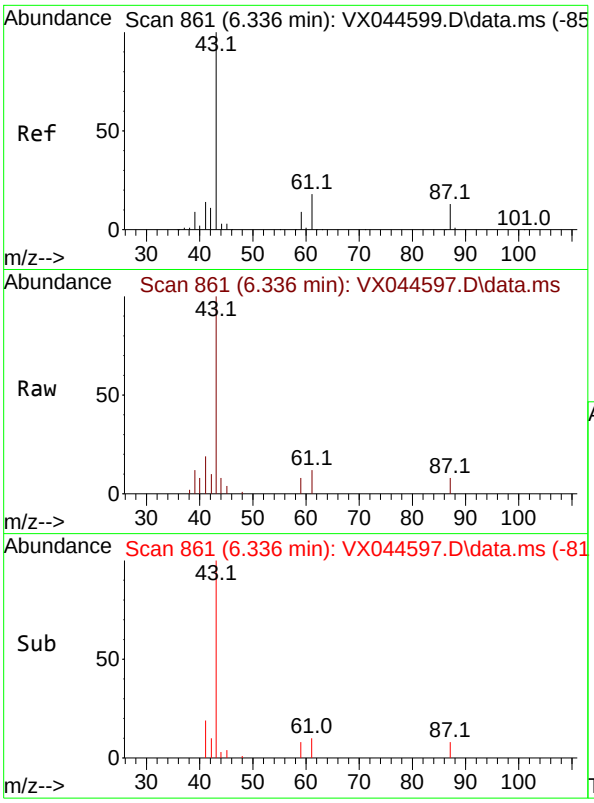


#42
1,2-Dichloroethane
Concen: 5.371 ug/l
RT: 6.086 min Scan# 820
Delta R.T. 0.006 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 62 Resp: 19283

Ion	Ratio	Lower	Upper
62	100		
98	8.1	0.0	15.8



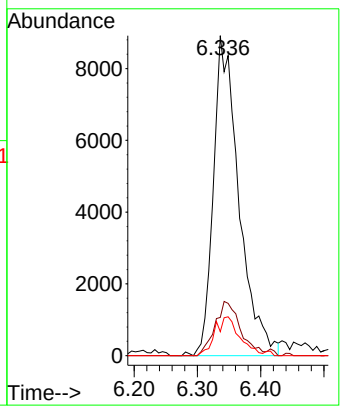


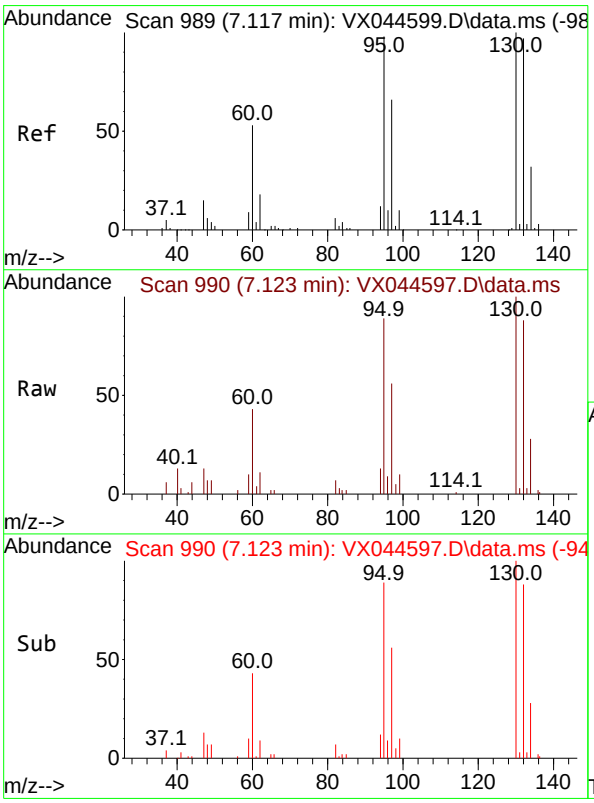
#43
Isopropyl Acetate
Concen: 5.075 ug/l
RT: 6.336 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 24971

Ion	Ratio	Lower	Upper
43	100		
61	17.0	14.5	21.7
87	11.7	10.1	15.1

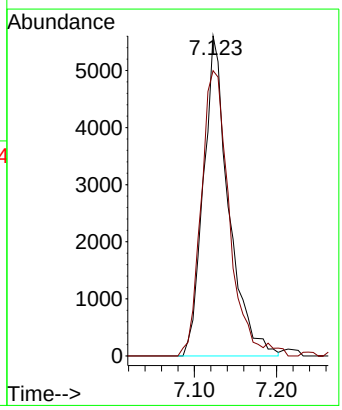


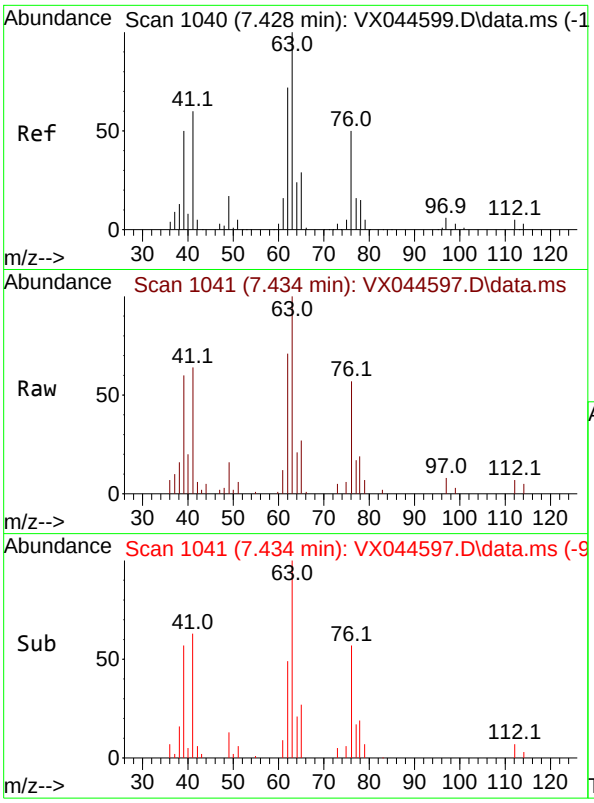


#44
Trichloroethene
Concen: 5.099 ug/l
RT: 7.123 min Scan# 990
Delta R.T. 0.006 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion:130 Resp: 11966

Ion	Ratio	Lower	Upper
130	100		
95	89.2	0.0	195.6



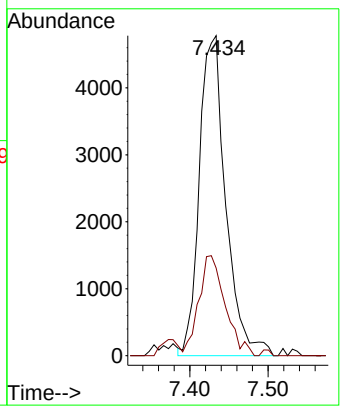


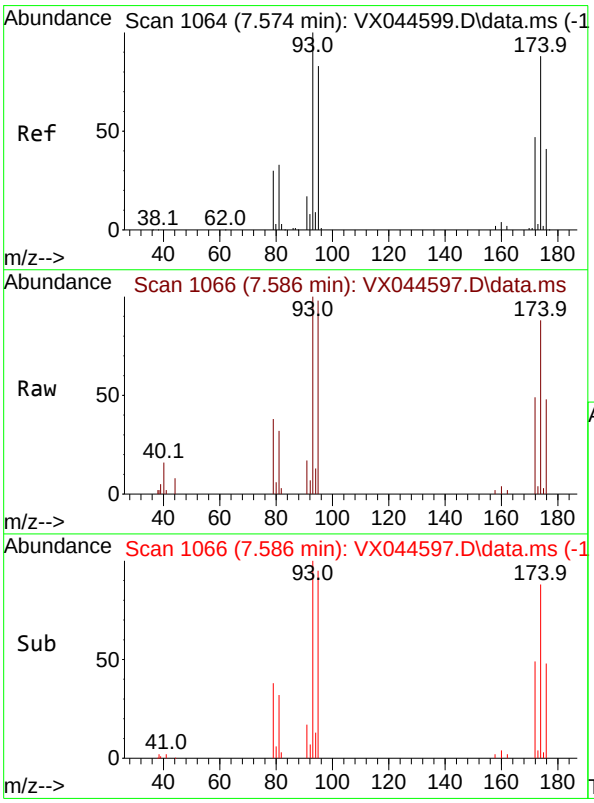
#45
1,2-Dichloropropane
Concen: 4.997 ug/l
RT: 7.434 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 63 Resp: 11185

Ion	Ratio	Lower	Upper
63	100		
65	27.4	23.0	34.4

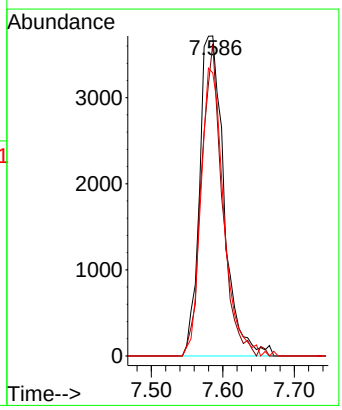


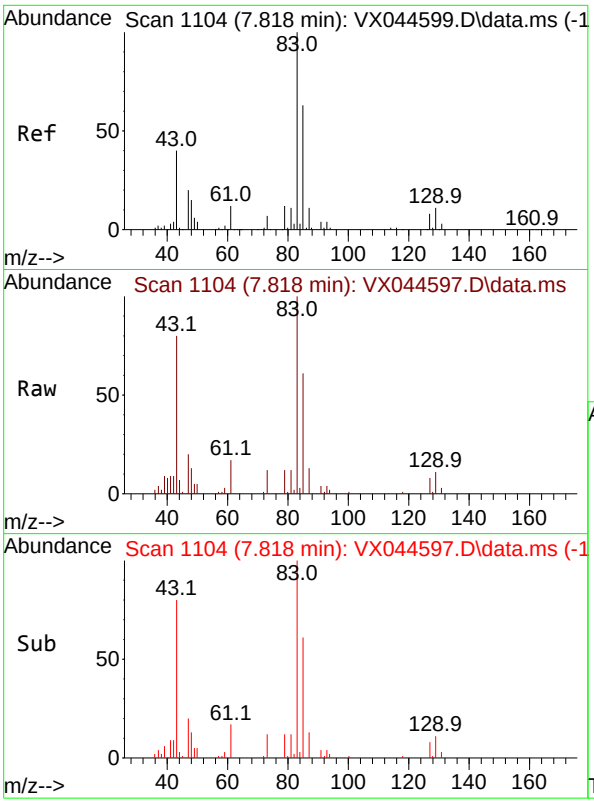


#46
Dibromomethane
Concen: 5.071 ug/l
RT: 7.586 min Scan# 1066
Delta R.T. 0.012 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 93 Resp: 8827

Ion	Ratio	Lower	Upper
93	100		
95	82.7	65.8	98.6
174	84.5	73.4	110.0



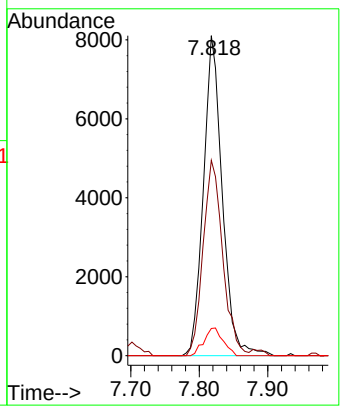


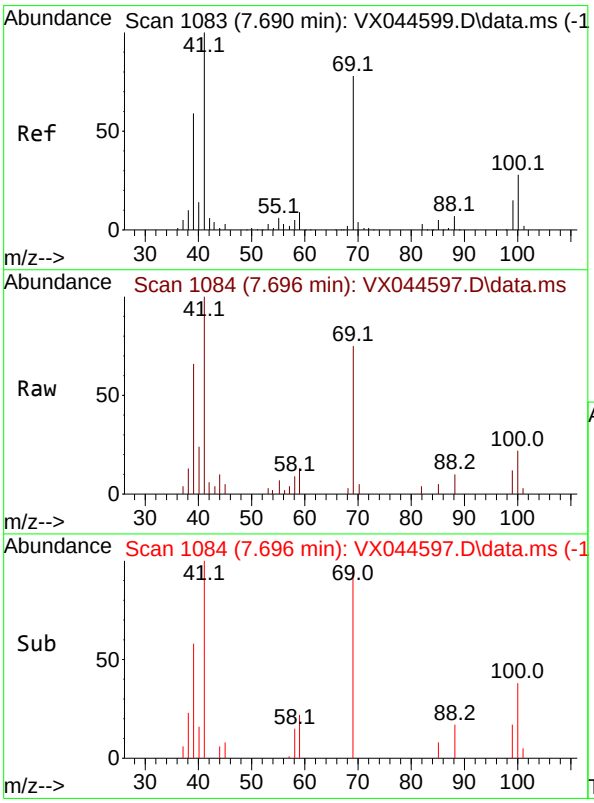
#47
Bromodichloromethane
Concen: 4.901 ug/l
RT: 7.818 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 83 Resp: 15524

Ion	Ratio	Lower	Upper
83	100		
85	61.1	50.4	75.6
127	8.5	6.2	9.4

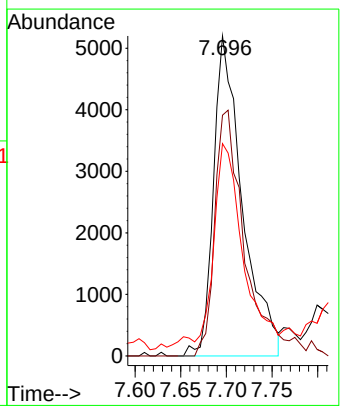


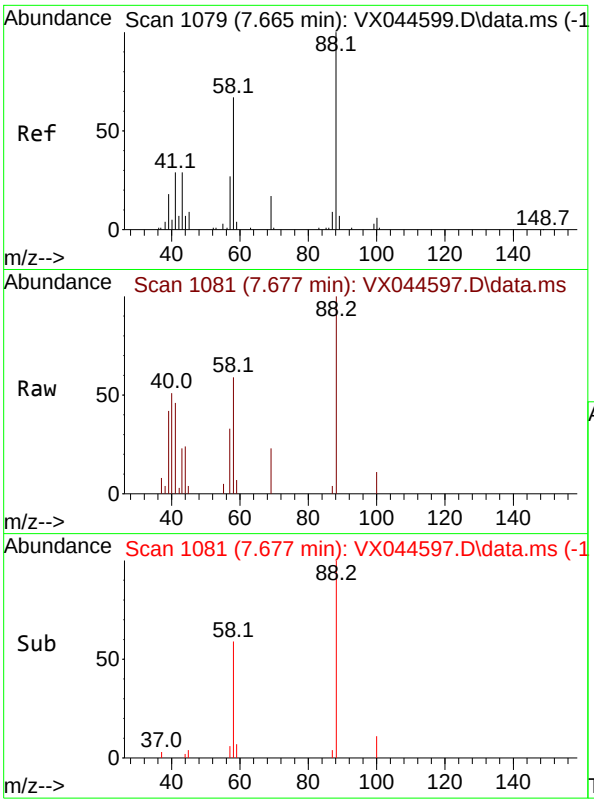


#48
Methyl methacrylate
Concen: 4.870 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. 0.006 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 41 Resp: 11428

Ion	Ratio	Lower	Upper
41	100		
69	80.3	62.9	94.3
39	68.6	48.9	73.3



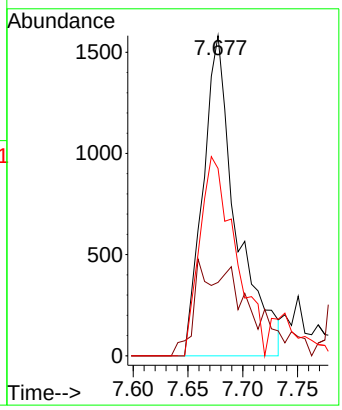


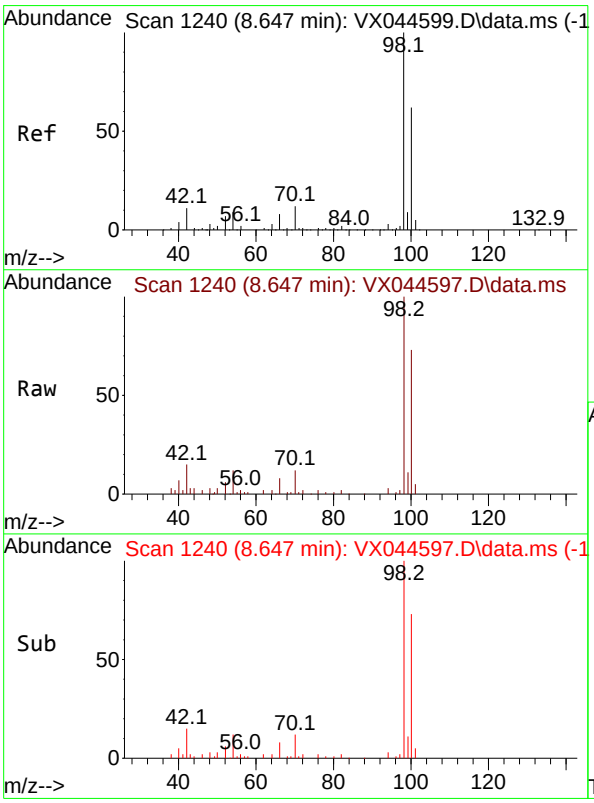
#49
1,4-Dioxane
Concen: 96.762 ug/l
RT: 7.677 min Scan# 1
Delta R.T. 0.012 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 88 Resp: 3337

Ion	Ratio	Lower	Upper
88	100		
43	0.0	29.5	44.3#
58	66.5	56.3	84.5

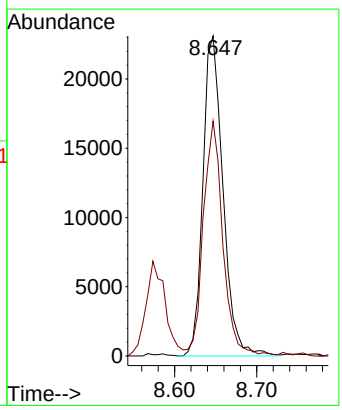


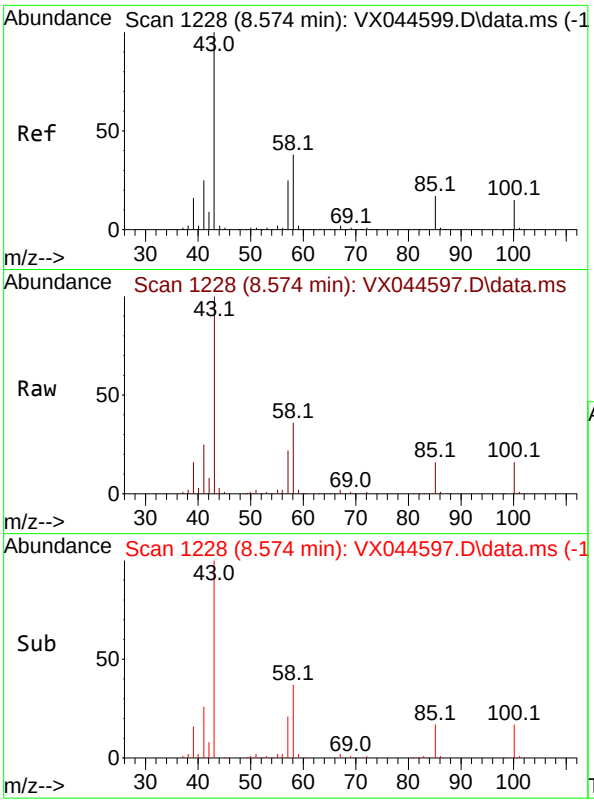


#50
Toluene-d8
Concen: 5.090 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 98 Resp: 39205

Ion	Ratio	Lower	Upper
98	100		
100	70.3	52.5	78.7



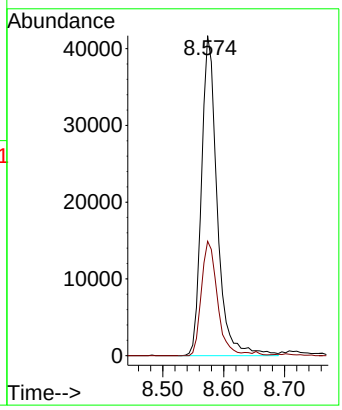


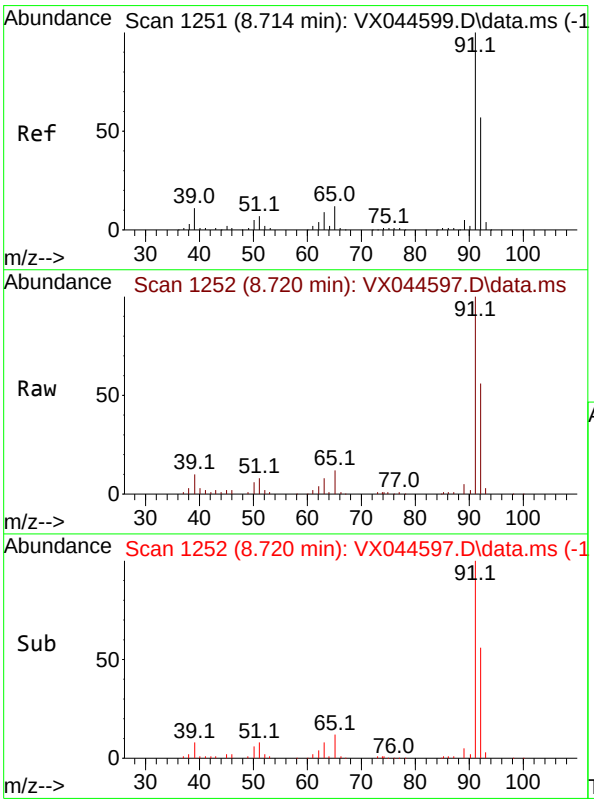
#51
4-Methyl-2-Pentanone
Concen: 26.029 ug/l
RT: 8.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 74867

Ion	Ratio	Lower	Upper
43	100		
58	36.5	30.0	45.0

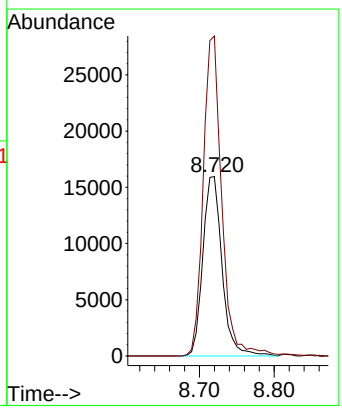


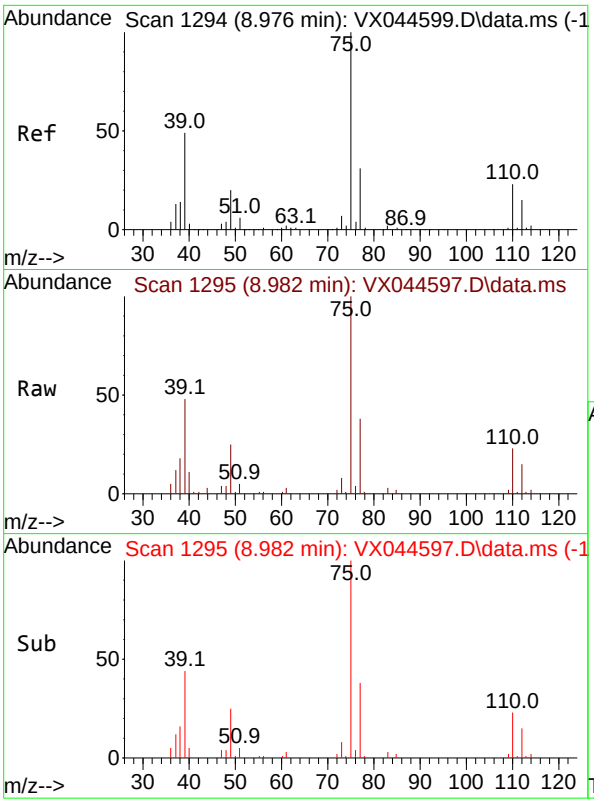


#52
Toluene
Concen: 5.147 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.006 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 92 Resp: 28506

Ion	Ratio	Lower	Upper
92	100		
91	172.1	140.6	210.8



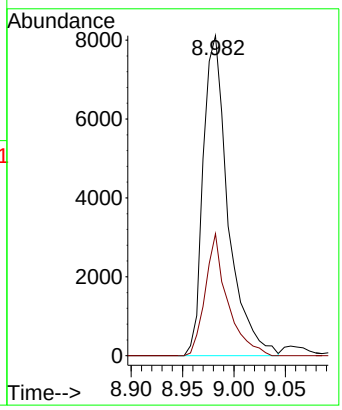


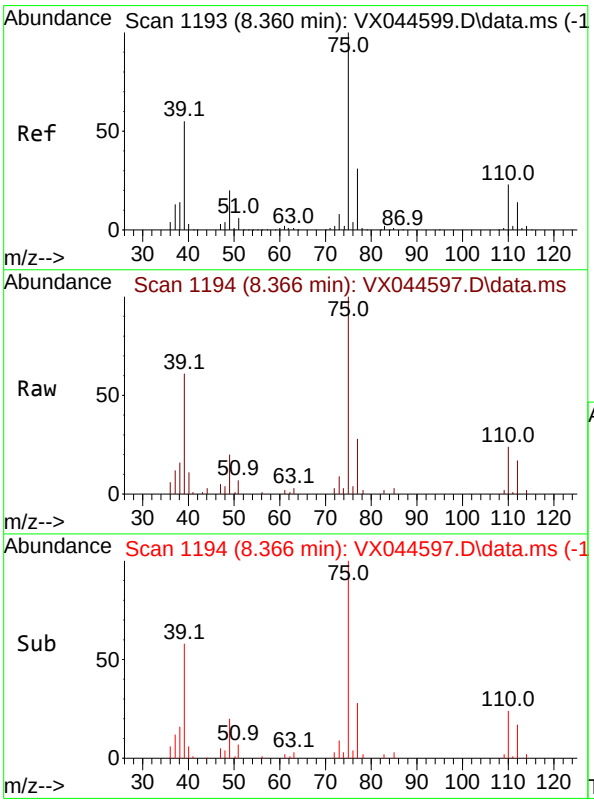
#53
t-1,3-Dichloropropene
Concen: 4.521 ug/l
RT: 8.982 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 75 Resp: 13689

Ion	Ratio	Lower	Upper
75	100		
77	38.1	24.8	37.2#

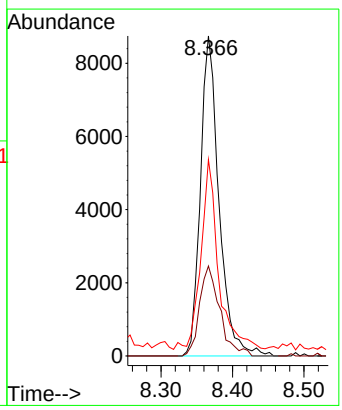


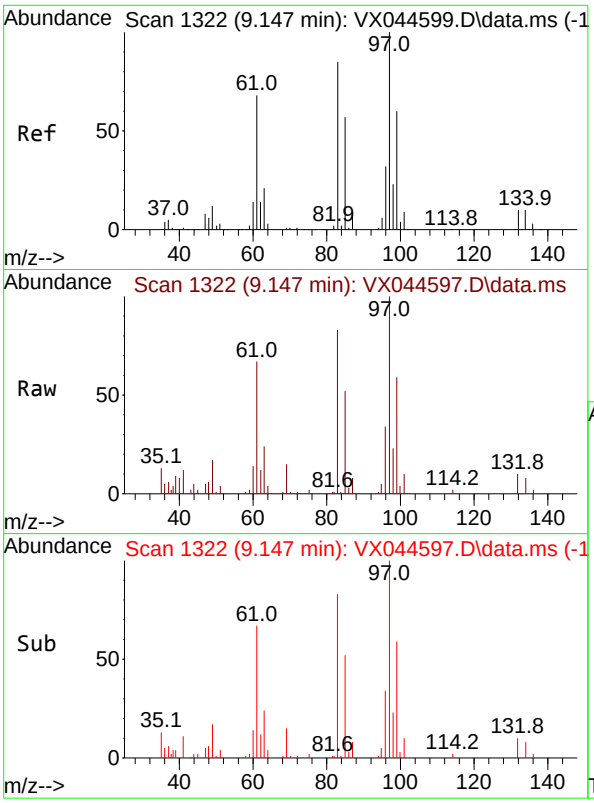


#54
cis-1,3-Dichloropropene
Concen: 4.640 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.006 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 75 Resp: 15789

Ion	Ratio	Lower	Upper
75	100		
77	28.1	24.5	36.7
39	59.0	44.3	66.5



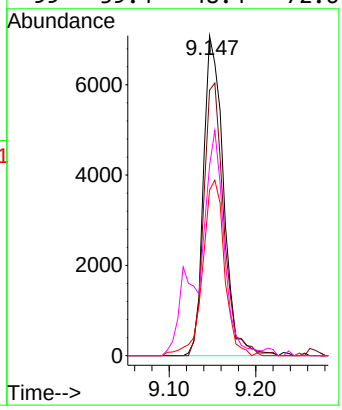


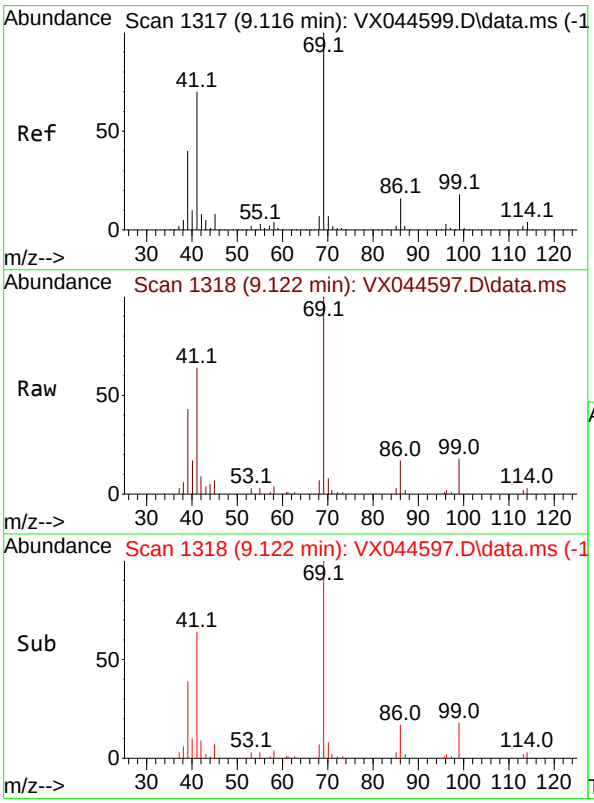
#55
1,1,2-Trichloroethane
Concen: 5.218 ug/l
RT: 9.147 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 97 Resp: 11331

Ion	Ratio	Lower	Upper
97	100		
83	83.0	68.0	102.0
85	51.7	45.4	68.0
99	59.4	48.4	72.6

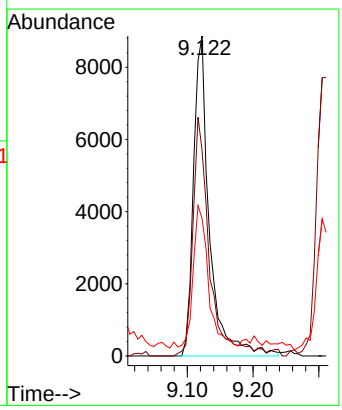


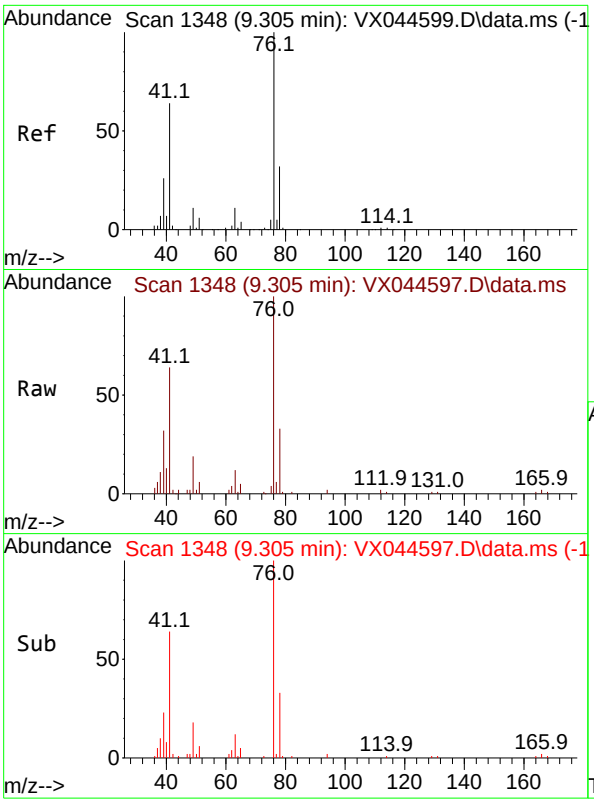


#56
Ethyl methacrylate
Concen: 4.741 ug/l
RT: 9.122 min Scan# 1318
Delta R.T. 0.006 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 69 Resp: 14973

Ion	Ratio	Lower	Upper
69	100		
41	75.3	57.7	86.5
39	42.6	33.7	50.5



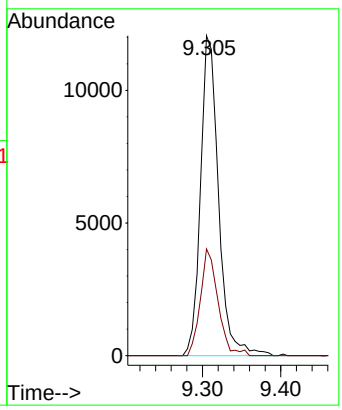


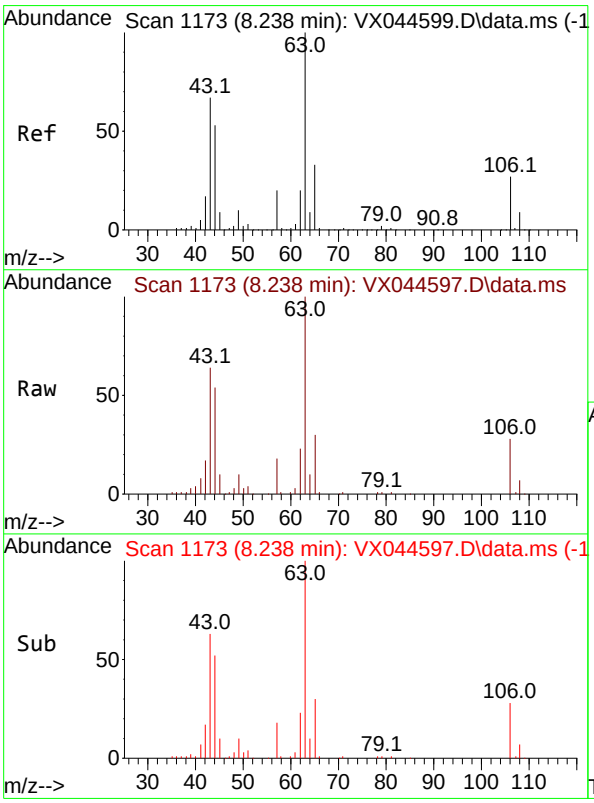
#57
1,3-Dichloropropane
Concen: 5.271 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 76 Resp: 19219

Ion	Ratio	Lower	Upper
76	100		
78	32.6	25.8	38.8

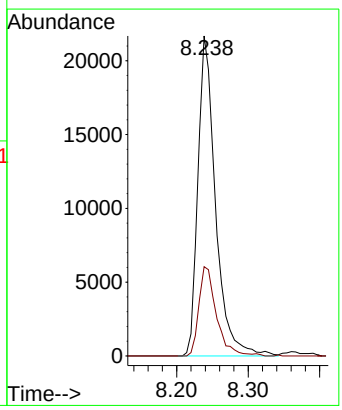


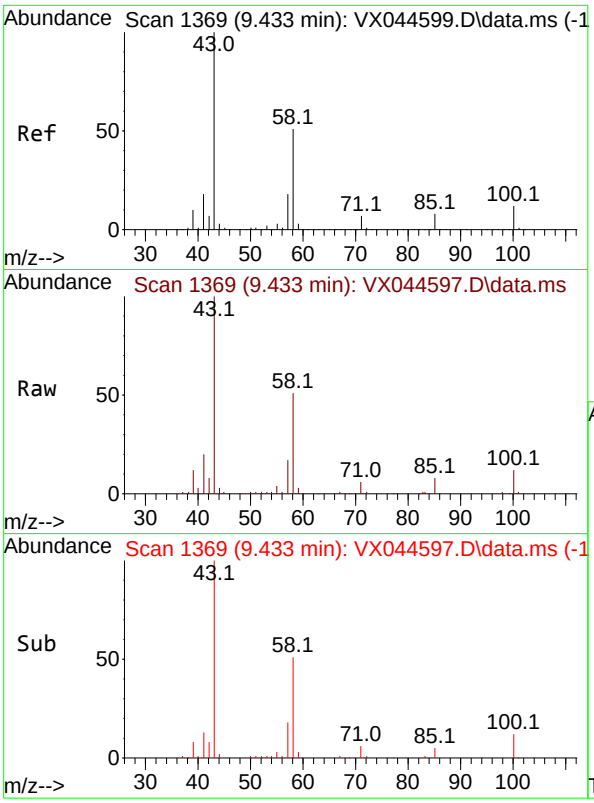


#58
2-Chloroethyl Vinyl ether
Concen: 23.707 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 63 Resp: 37113

Ion	Ratio	Lower	Upper
63	100		
106	27.8	22.4	33.6



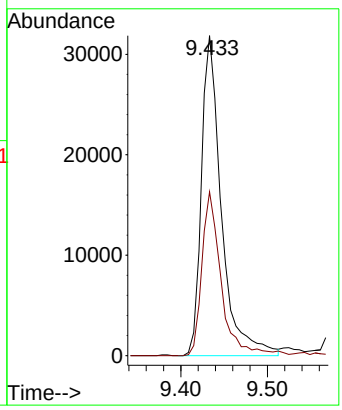


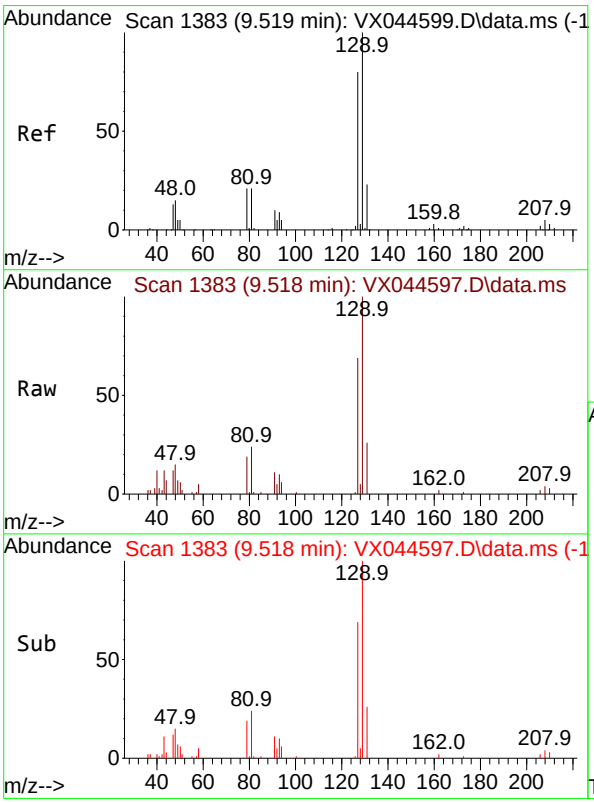
#59
2-Hexanone
Concen: 25.095 ug/l
RT: 9.433 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 51047

Ion	Ratio	Lower	Upper
43	100		
58	49.5	25.4	76.4

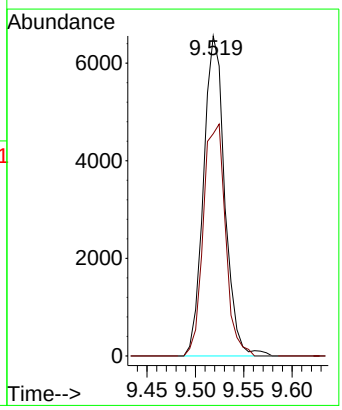


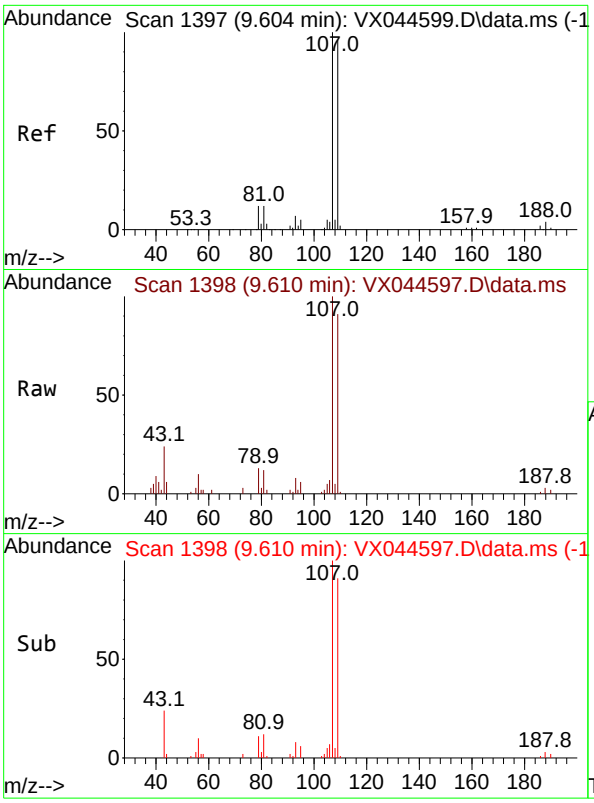


#60
Dibromochloromethane
Concen: 4.629 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion:129 Resp: 10022

Ion	Ratio	Lower	Upper
129	100		
127	75.6	38.9	116.7



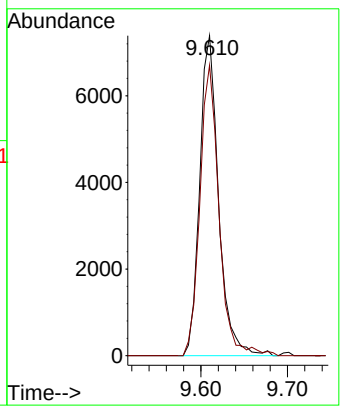


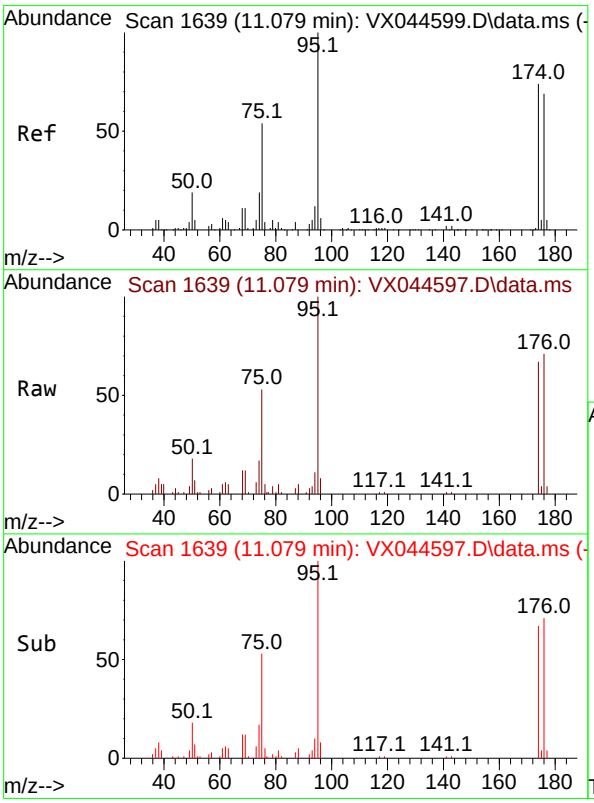
#61
1,2-Dibromoethane
Concen: 5.093 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:107 Resp: 11169

Ion	Ratio	Lower	Upper
107	100		
109	92.1	76.7	115.1

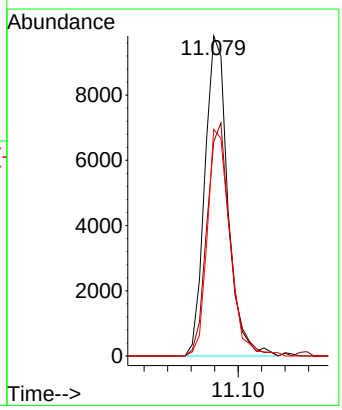


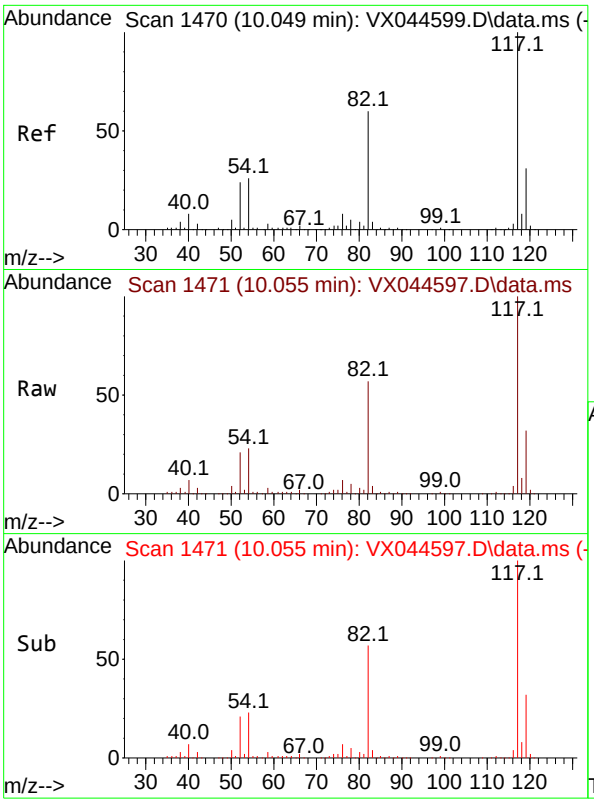


#62
4-Bromofluorobenzene
Concen: 4.889 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 95 Resp: 13290

Ion	Ratio	Lower	Upper
95	100		
174	73.4	0.0	148.8
176	70.1	0.0	139.8



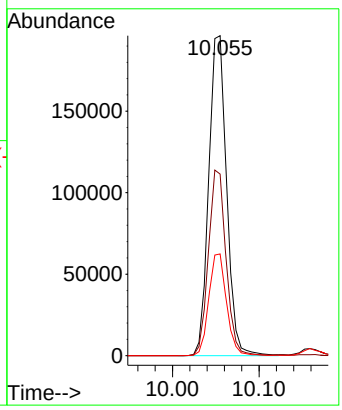


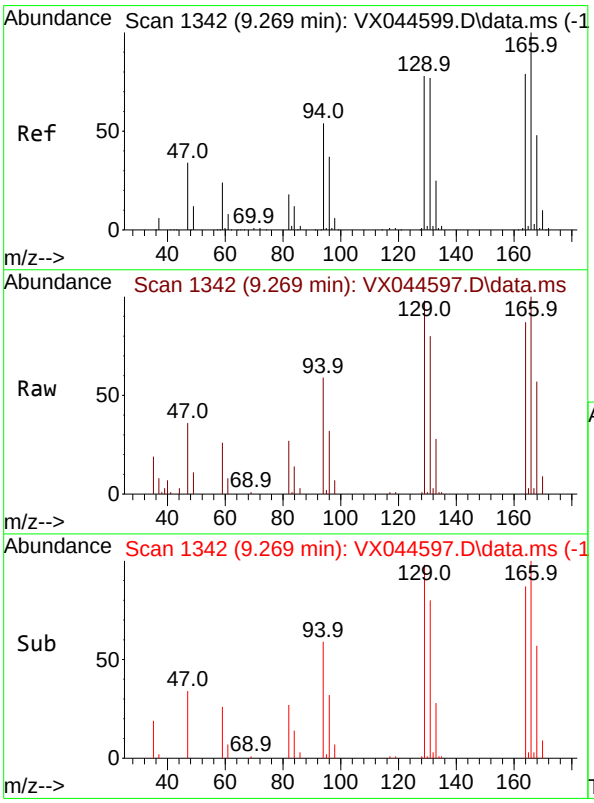
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:117 Resp: 281481

Ion	Ratio	Lower	Upper
117	100		
82	56.8	47.8	71.6
119	31.8	25.0	37.6

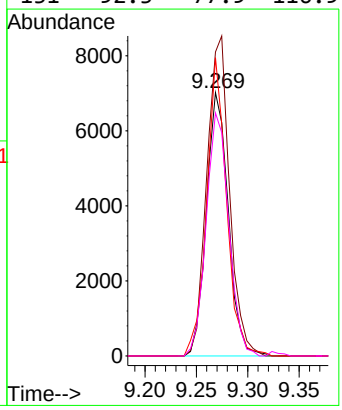


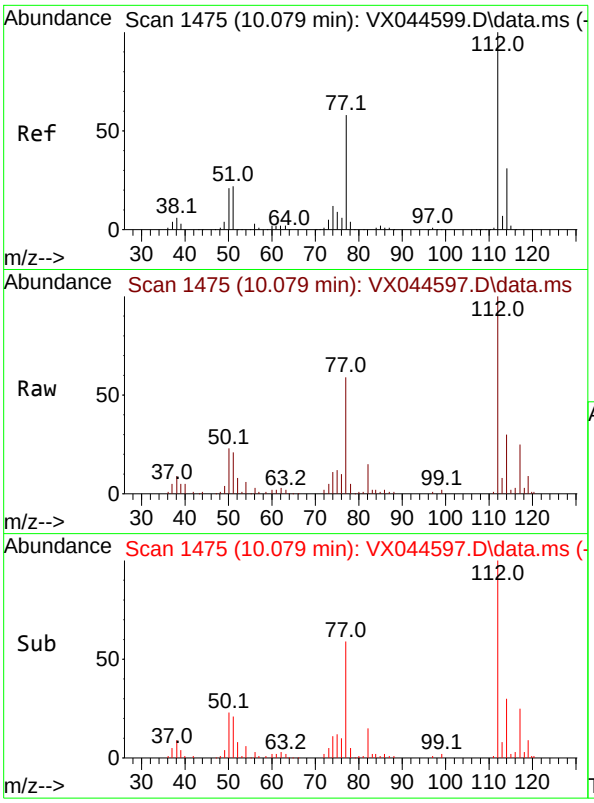


#64
Tetrachloroethene
Concen: 5.236 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion:164 Resp: 10421

Ion	Ratio	Lower	Upper
164	100		
166	115.4	101.5	152.3
129	113.2	78.9	118.3
131	92.3	77.9	116.9



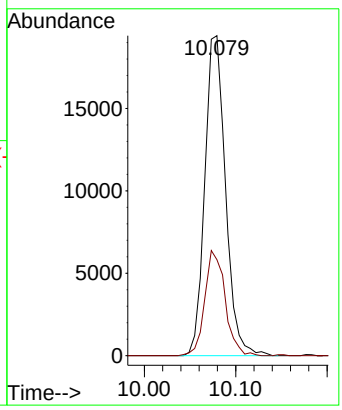


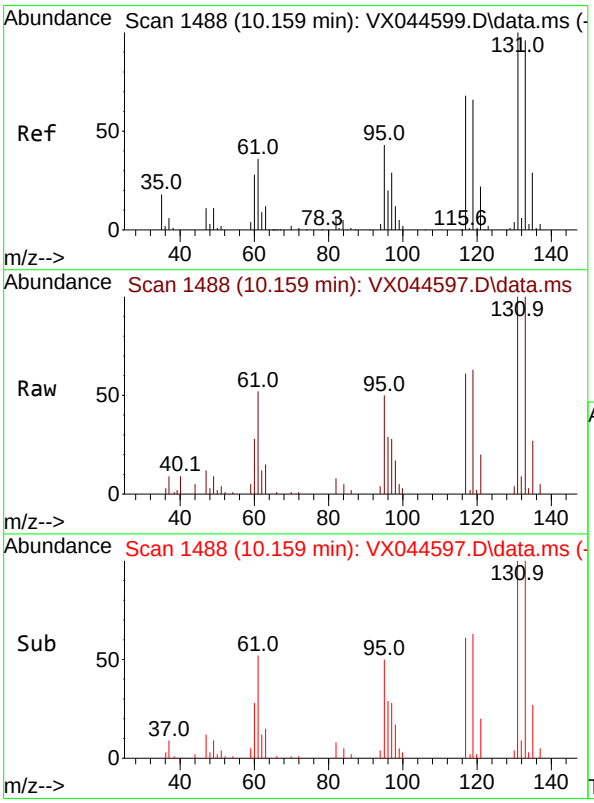
#65
Chlorobenzene
Concen: 5.132 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:112 Resp: 30656

Ion	Ratio	Lower	Upper
112	100		
114	30.0	25.0	37.4

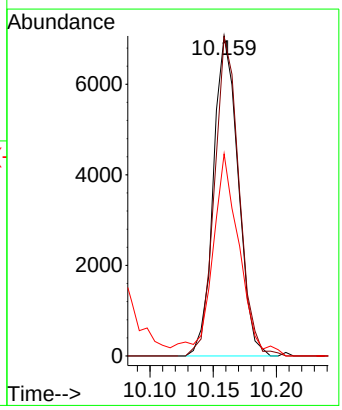


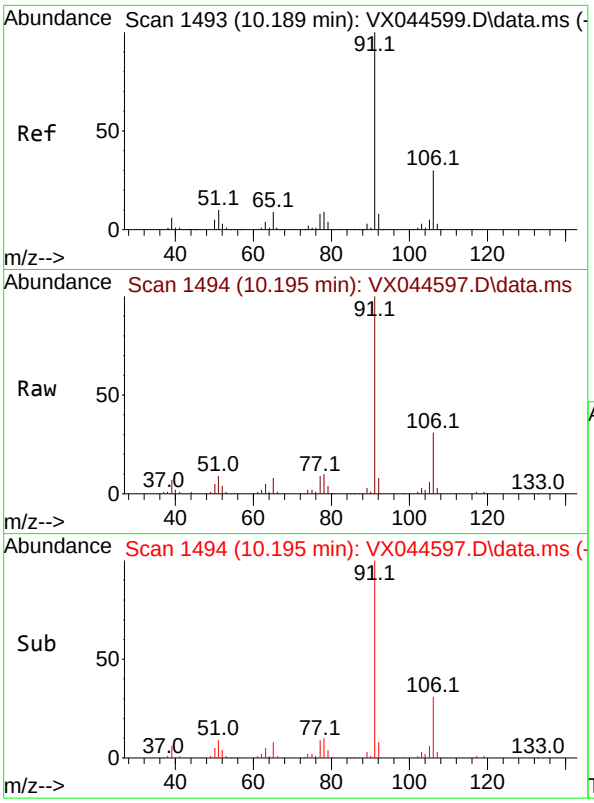


#66
1,1,1,2-Tetrachloroethane
Concen: 4.834 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion:131 Resp: 9592

Ion	Ratio	Lower	Upper
131	100		
133	99.1	48.0	144.0
119	69.1	32.8	98.4



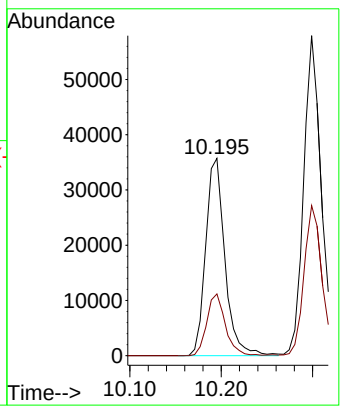


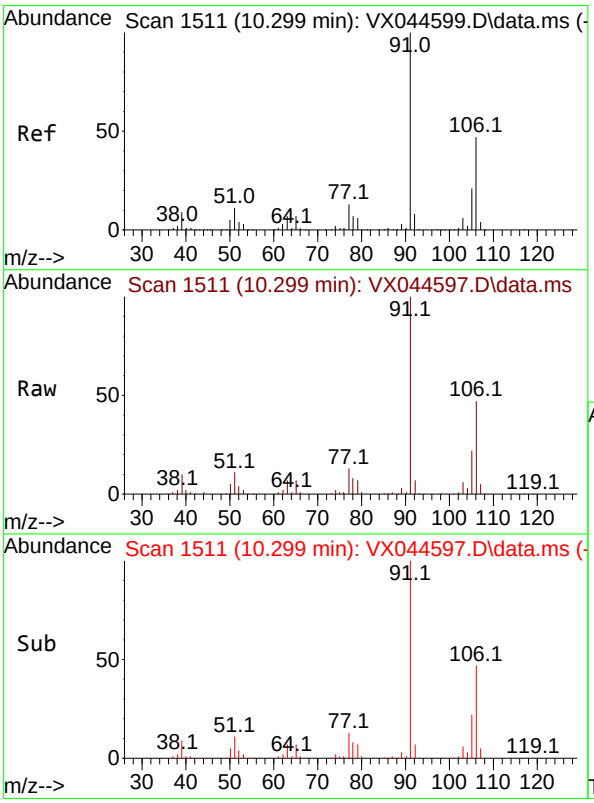
#67
Ethyl Benzene
Concen: 5.086 ug/l
RT: 10.195 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 91 Resp: 52173

Ion	Ratio	Lower	Upper
91	100		
106	31.3	23.8	35.8

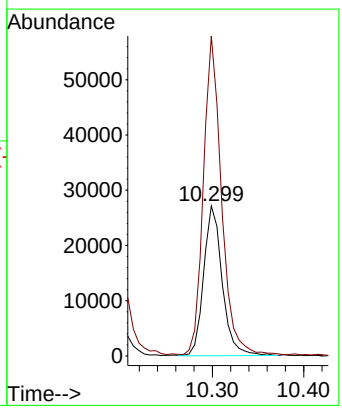


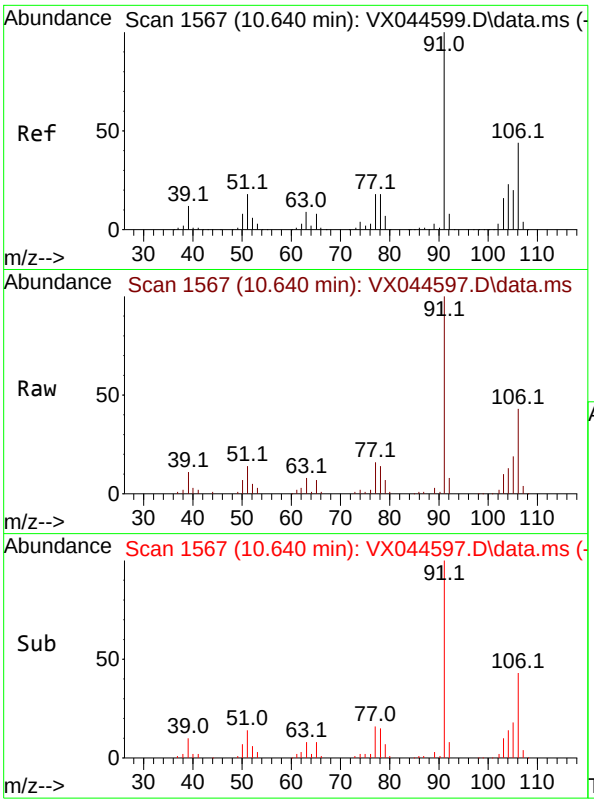


#68
m/p-Xylenes
Concen: 10.109 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion:106 Resp: 38109

Ion	Ratio	Lower	Upper
106	100		
91	207.7	170.4	255.6



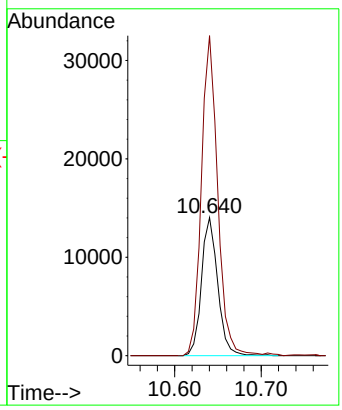


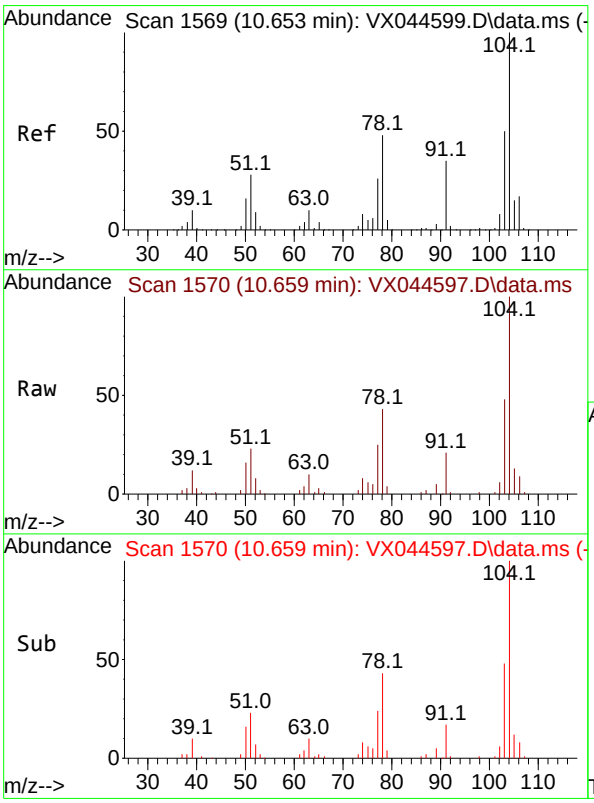
#69
o-Xylene
Concen: 4.812 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:106 Resp: 18309

Ion	Ratio	Lower	Upper
106	100		
91	231.2	112.3	336.8

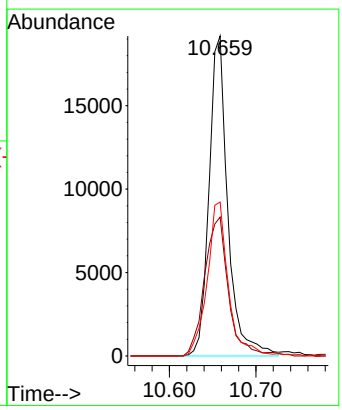


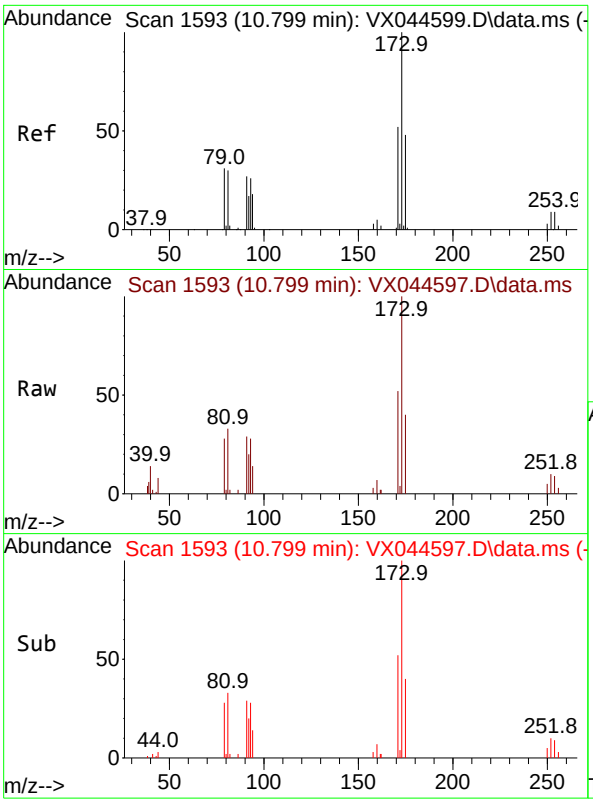


#70
Styrene
Concen: 4.745 ug/l
RT: 10.659 min Scan# 1570
Delta R.T. 0.006 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion:104 Resp: 28881

Ion	Ratio	Lower	Upper
104	100		
78	55.2	44.0	66.0
103	54.6	43.8	65.6



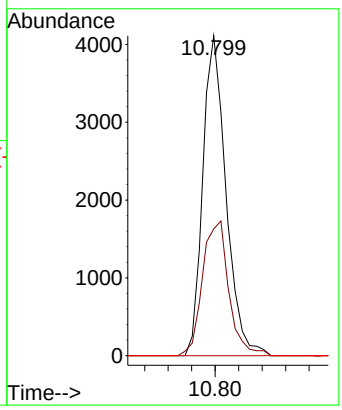


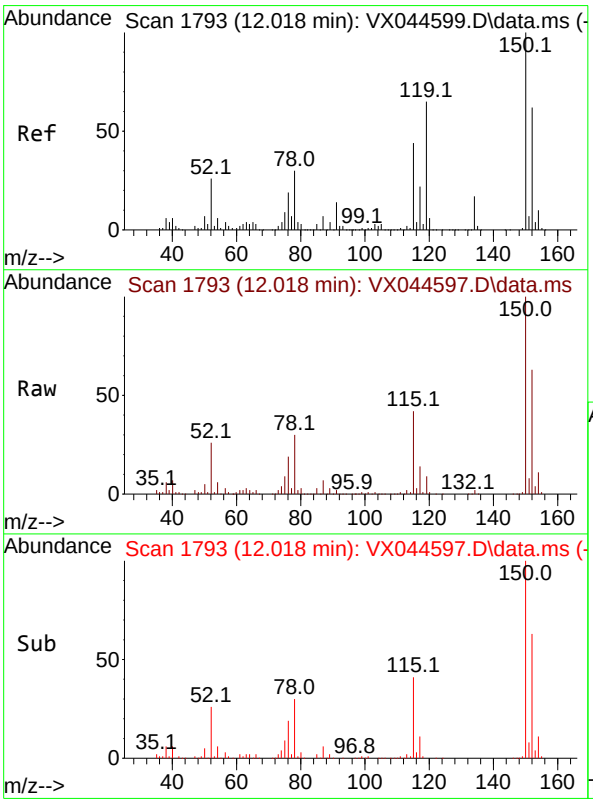
#71
Bromoform
Concen: 4.960 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:173 Resp: 5635

Ion	Ratio	Lower	Upper
173	100		
175	47.7	24.6	73.8
254	0.0	0.0	0.0

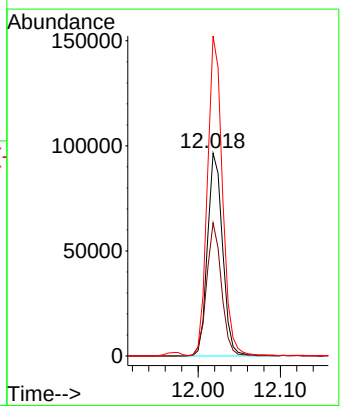


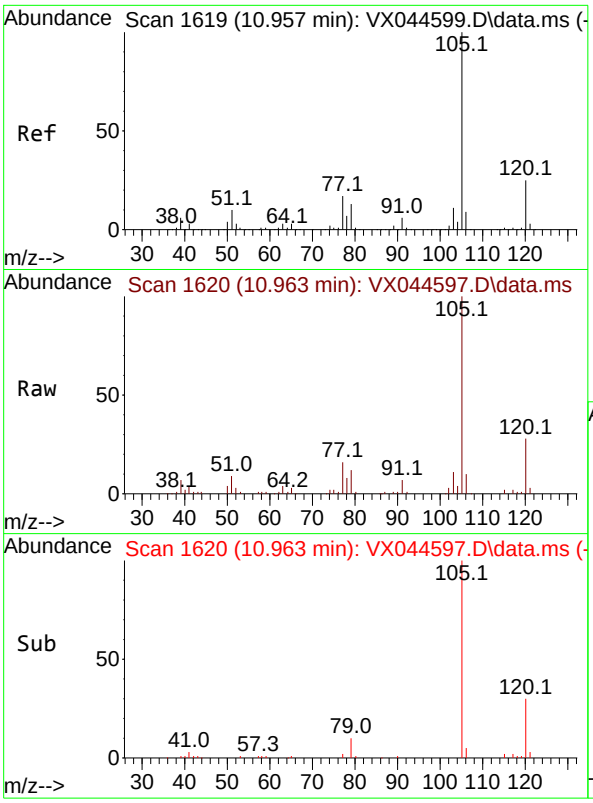


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion:152 Resp: 122676

Ion	Ratio	Lower	Upper
152	100		
115	64.8	44.4	133.1
150	156.9	0.0	355.0



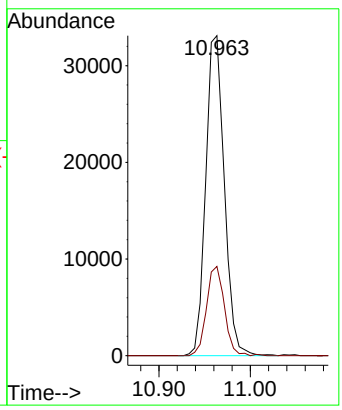


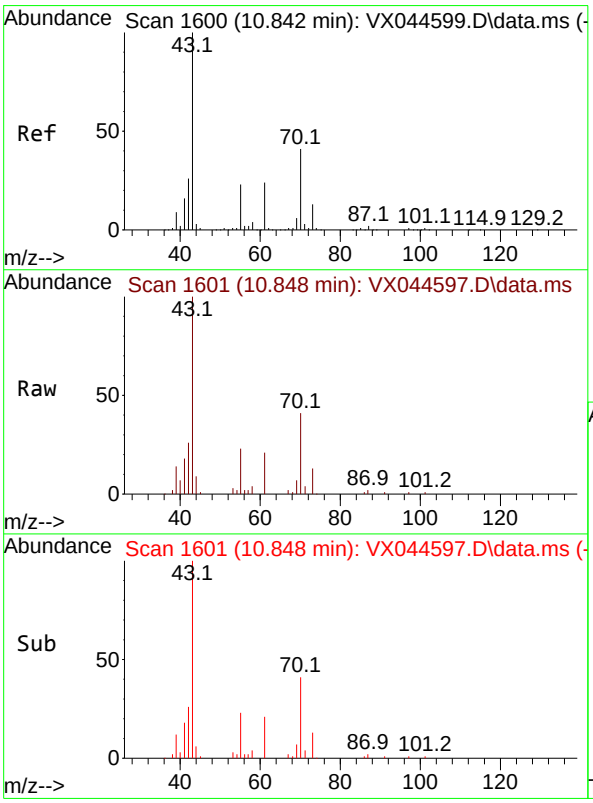
#73
Isopropylbenzene
Concen: 5.131 ug/l
RT: 10.963 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:105 Resp: 46634

Ion	Ratio	Lower	Upper
105	100		
120	26.9	13.0	38.9

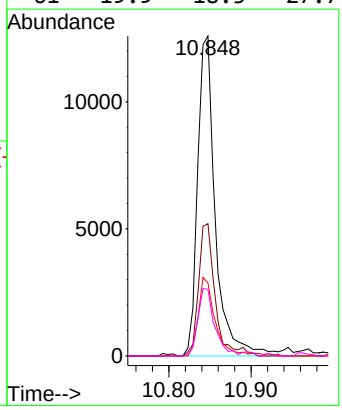


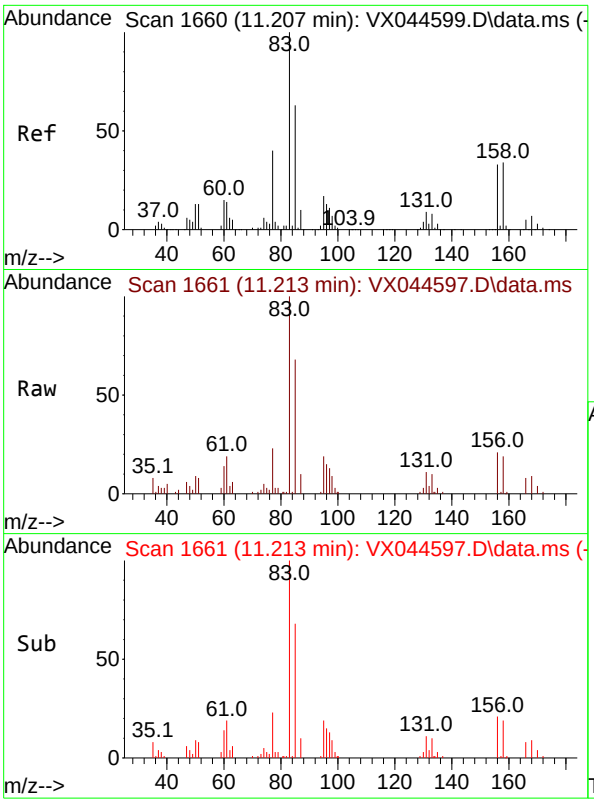


#74
N-amyl acetate
Concen: 5.114 ug/l
RT: 10.848 min Scan# 1601
Delta R.T. 0.006 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 43 Resp: 18861

Ion	Ratio	Lower	Upper
43	100		
70	38.5	32.9	49.3
55	23.9	19.0	28.6
61	19.9	18.5	27.7



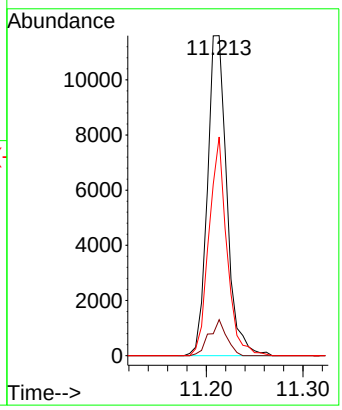


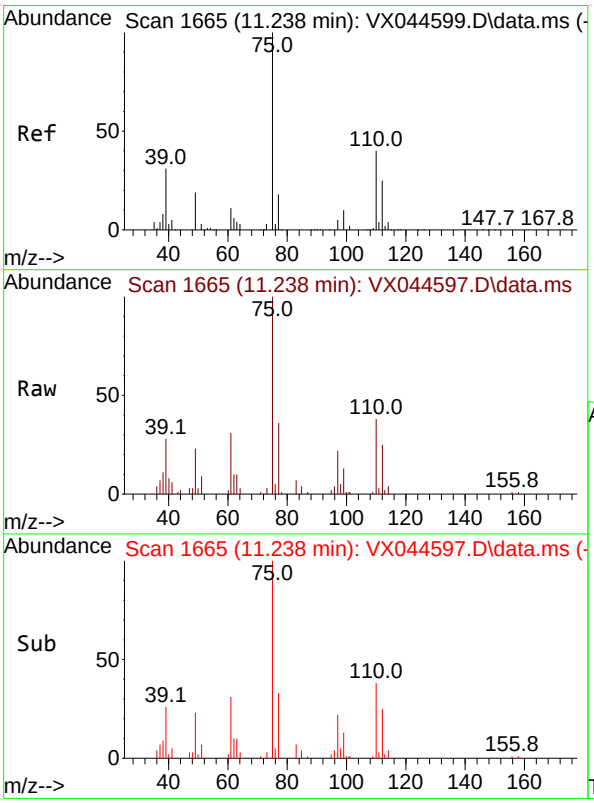
#75
1,1,2,2-Tetrachloroethane
Concen: 5.528 ug/l
RT: 11.213 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 83 Resp: 16194

Ion	Ratio	Lower	Upper
83	100		
131	10.0	5.0	15.0
85	62.9	31.9	95.5

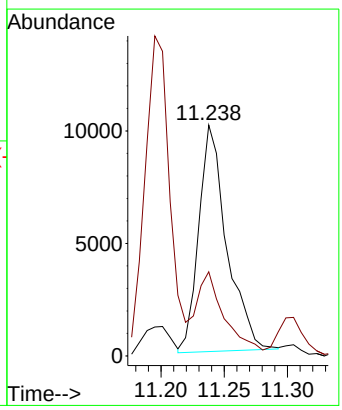


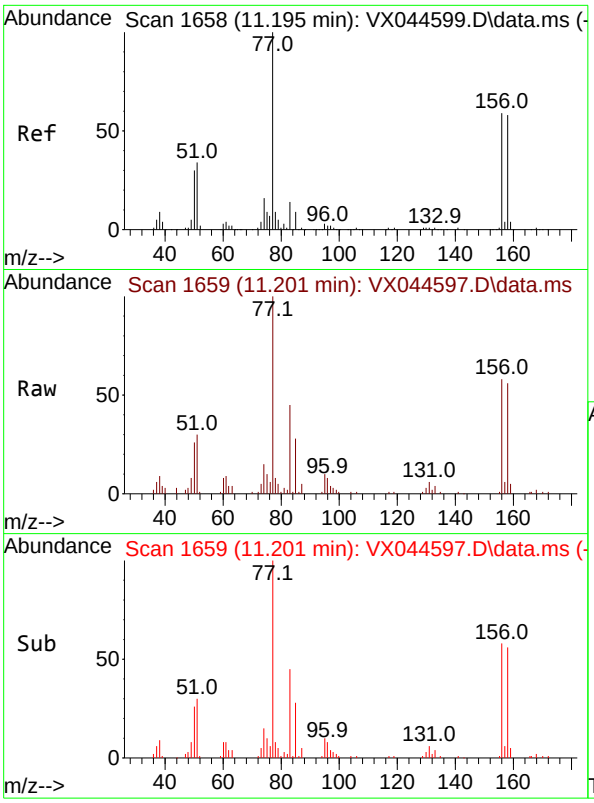


#76
1,2,3-Trichloropropane
Concen: 6.311 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 75 Resp: 15521

Ion	Ratio	Lower	Upper
75	100		
77	38.7	21.1	63.1



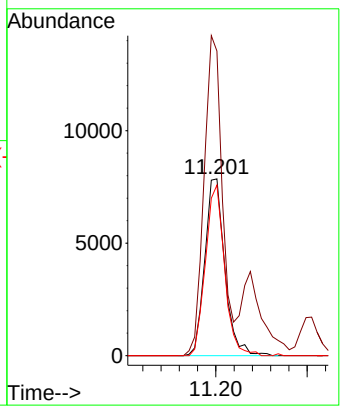


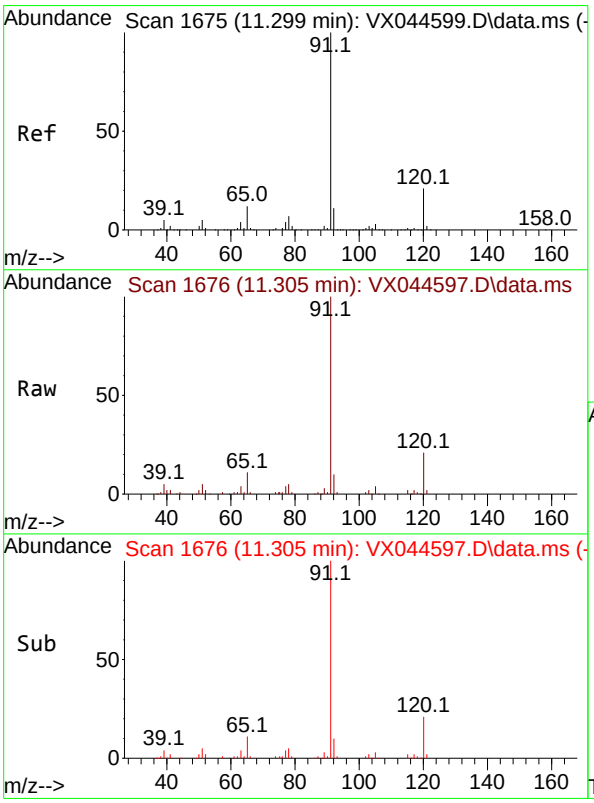
#77
Bromobenzene
Concen: 5.413 ug/l
RT: 11.201 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:156 Resp: 11951

Ion	Ratio	Lower	Upper
156	100		
77	164.0	85.7	257.1
158	92.2	49.9	149.6

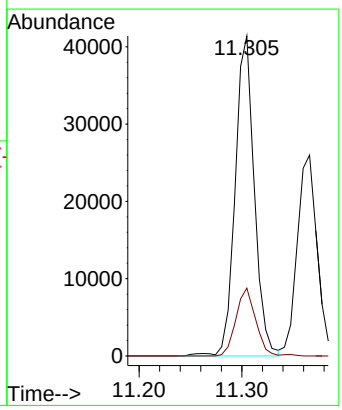


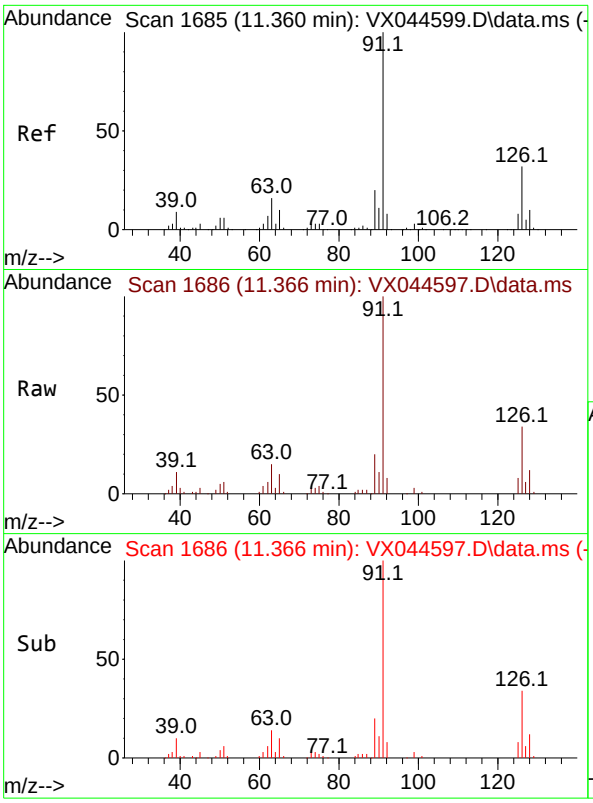


#78
n-propylbenzene
Concen: 5.237 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.006 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 91 Resp: 53610

Ion	Ratio	Lower	Upper
91	100		
120	22.0	11.2	33.5



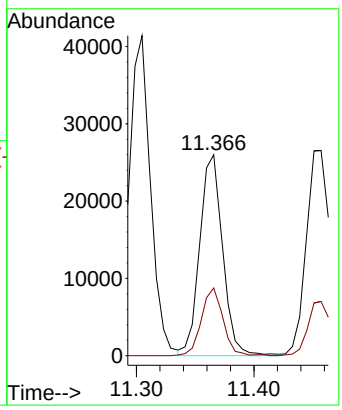


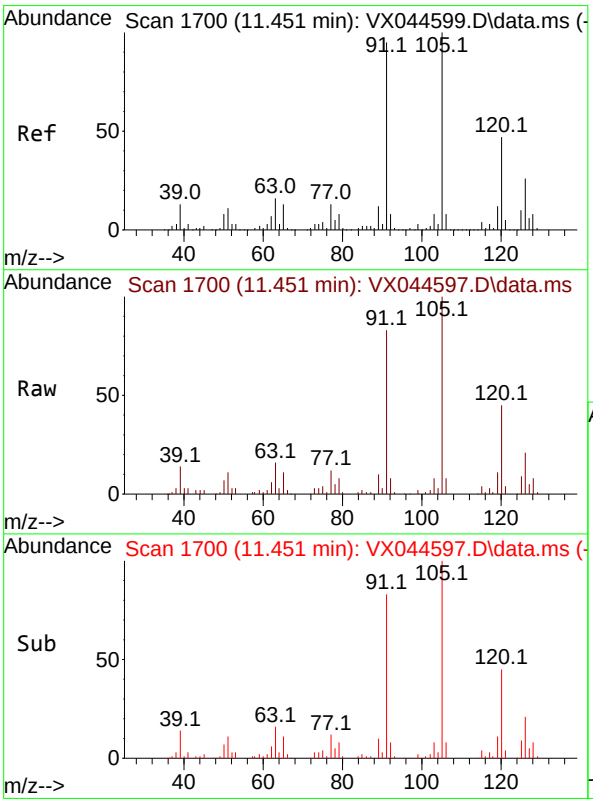
#79
2-Chlorotoluene
Concen: 5.330 ug/l
RT: 11.366 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 91 Resp: 35356

Ion	Ratio	Lower	Upper
91	100		
126	31.7	16.4	49.2

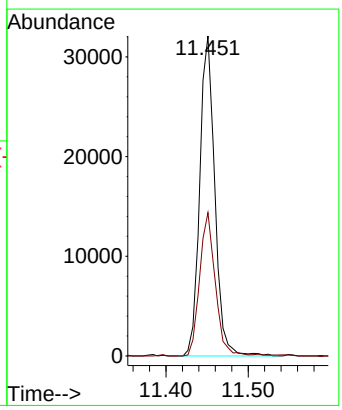


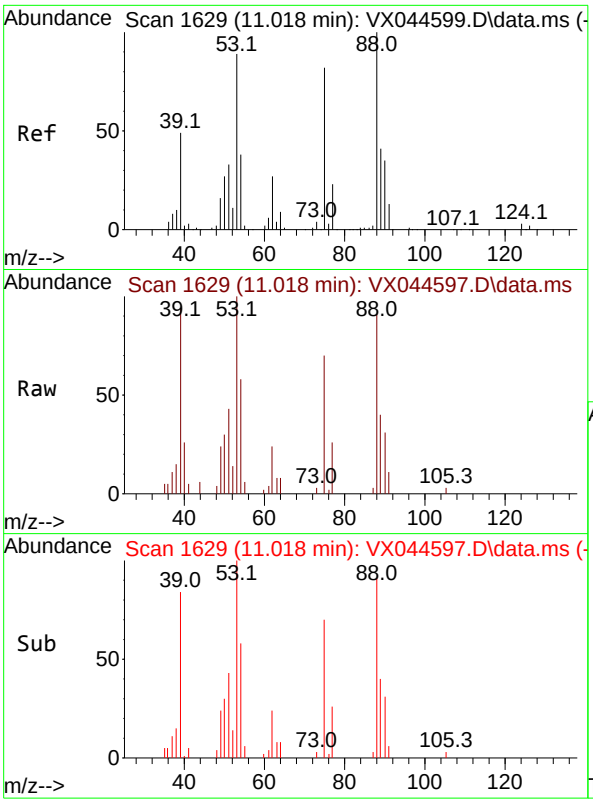


#80
1,3,5-Trimethylbenzene
Concen: 5.422 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion:105 Resp: 40862

Ion	Ratio	Lower	Upper
105	100		
120	46.3	23.5	70.5



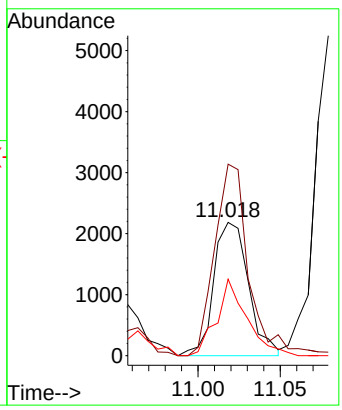


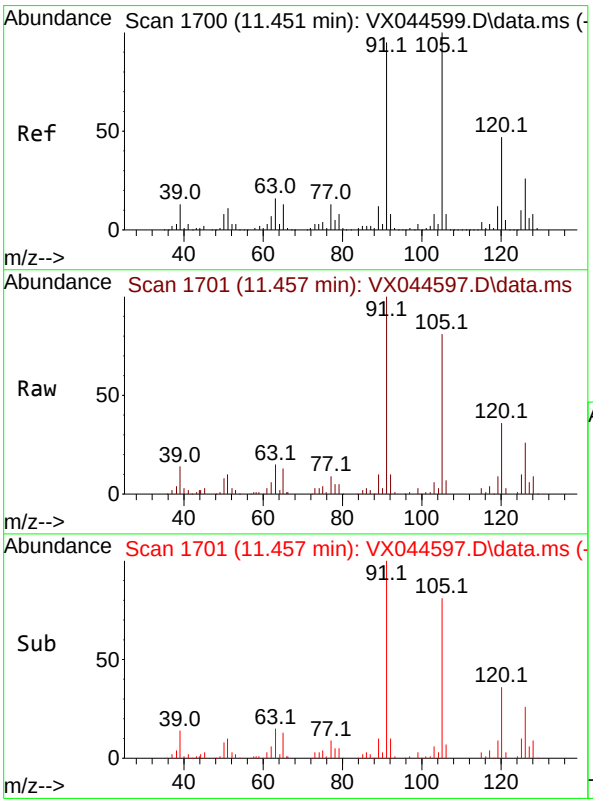
#81
trans-1,4-Dichloro-2-butene
Concen: 3.975 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 75 Resp: 3211

Ion	Ratio	Lower	Upper
75	100		
53	142.3	92.7	139.1#
89	50.1	38.3	57.5

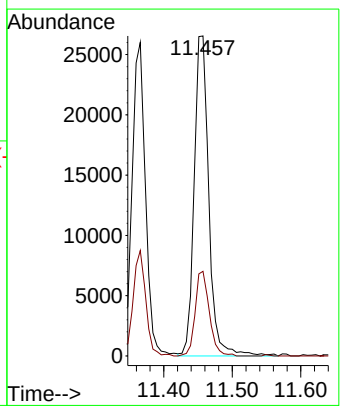


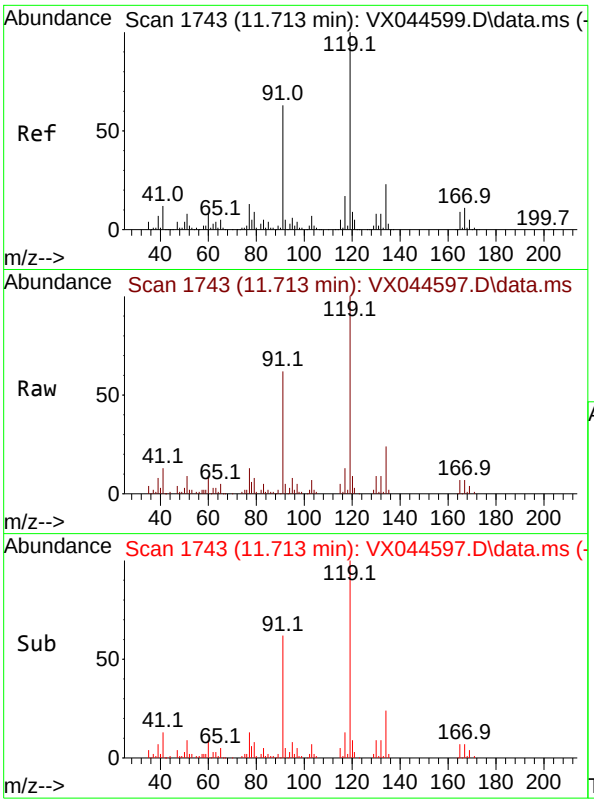


#82
4-Chlorotoluene
Concen: 5.298 ug/l
RT: 11.457 min Scan# 1701
Delta R.T. 0.006 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 91 Resp: 39535

Ion	Ratio	Lower	Upper
91	100		
126	25.6	14.0	42.0



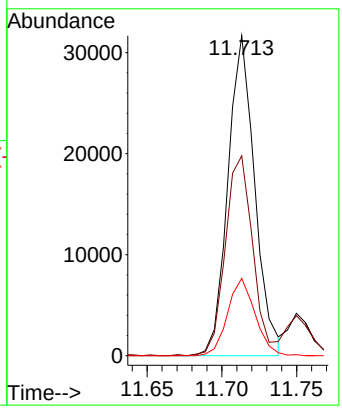


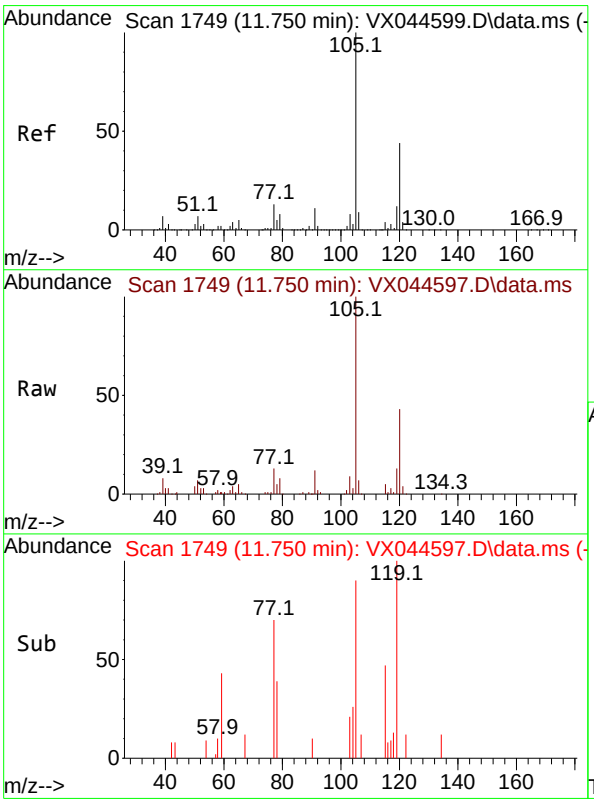
#83
tert-Butylbenzene
Concen: 5.274 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:119 Resp: 39571

Ion	Ratio	Lower	Upper
119	100		
91	64.4	30.9	92.8
134	24.8	11.7	35.0

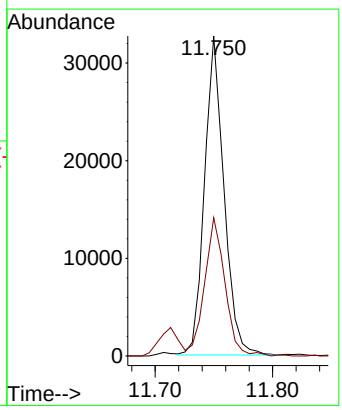


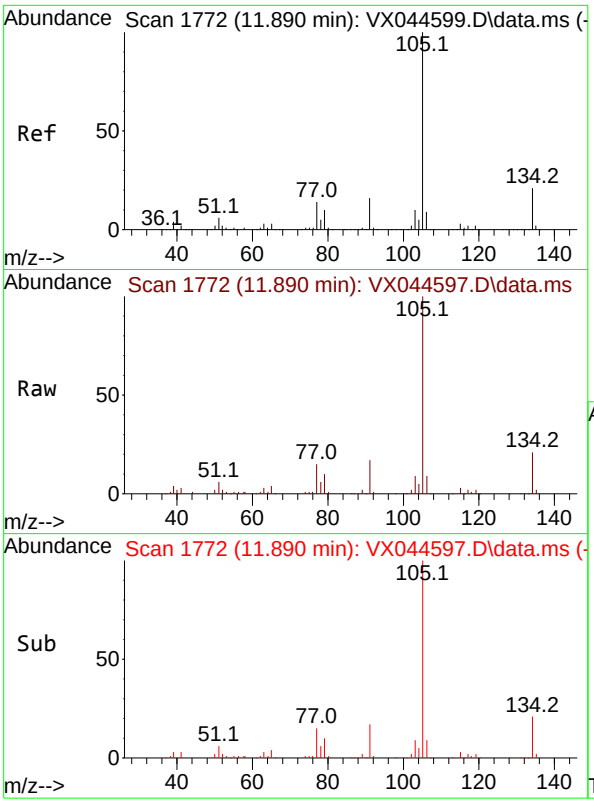


#84
1,2,4-Trimethylbenzene
Concen: 4.961 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion:105 Resp: 37556

Ion	Ratio	Lower	Upper
105	100		
120	45.5	21.9	65.7



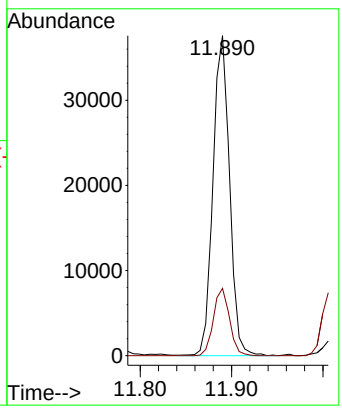


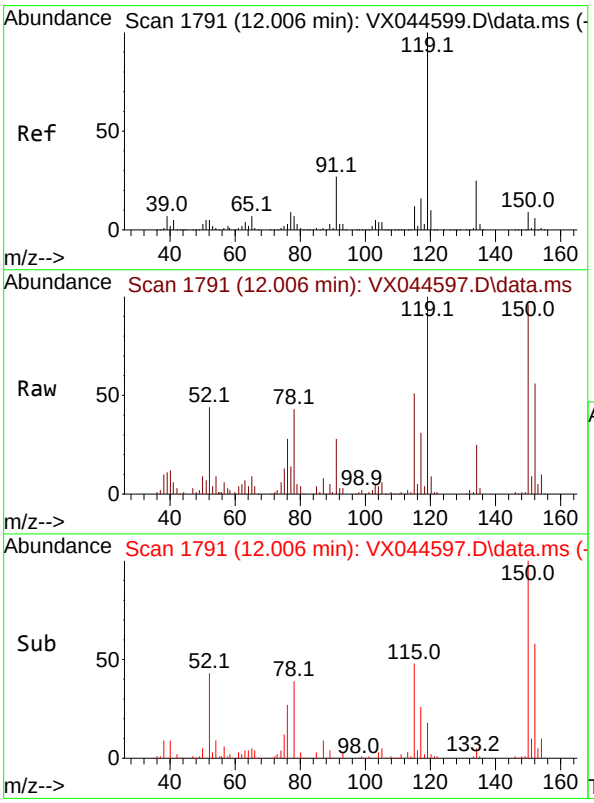
#85
sec-Butylbenzene
Concen: 5.173 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:105 Resp: 47269

Ion	Ratio	Lower	Upper
105	100		
134	20.4	9.9	29.7

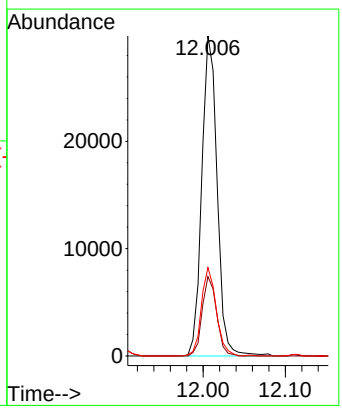


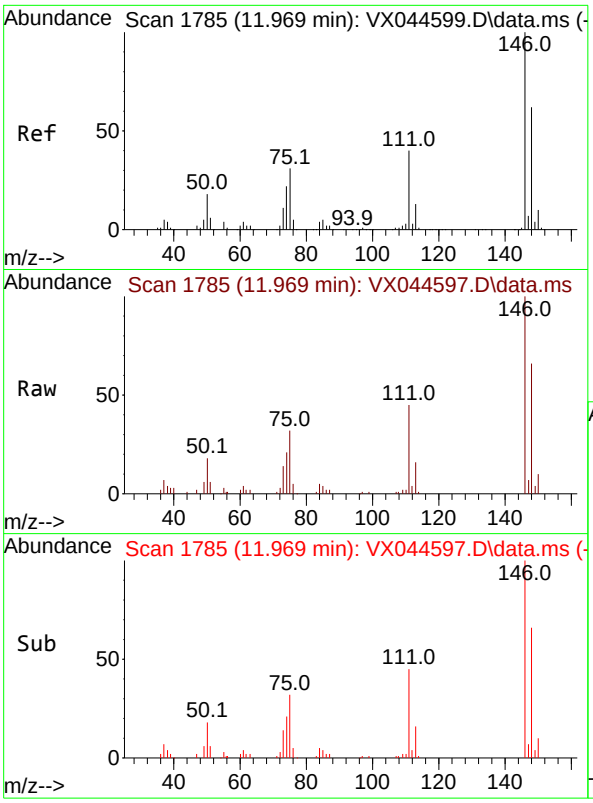


#86
p-Isopropyltoluene
Concen: 5.046 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion:119 Resp: 38691

Ion	Ratio	Lower	Upper
119	100		
134	23.3	12.6	37.8
91	26.8	13.1	39.1



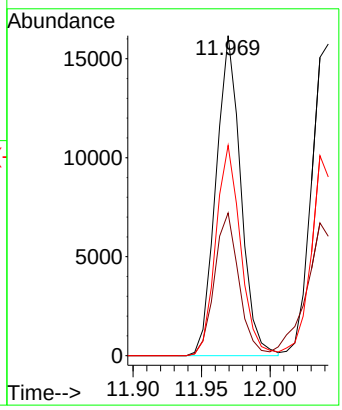


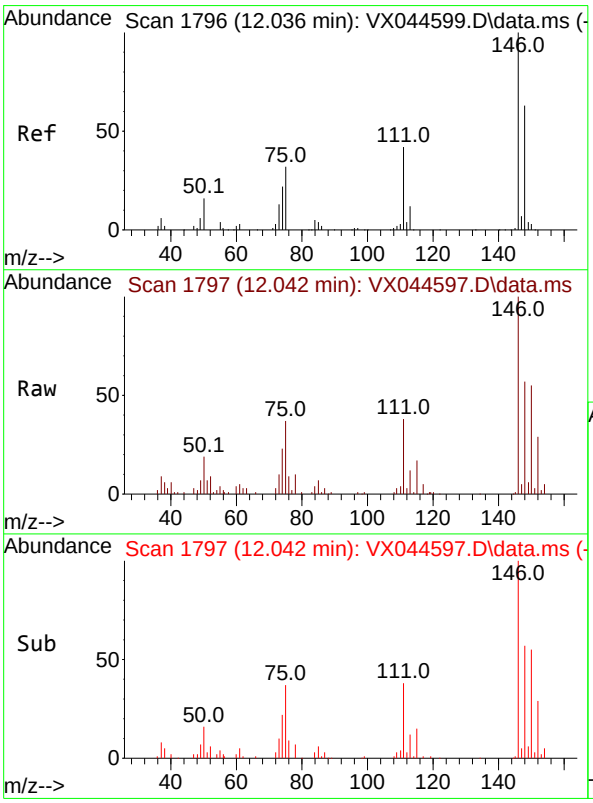
#87
1,3-Dichlorobenzene
Concen: 5.096 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:146 Resp: 20352

Ion	Ratio	Lower	Upper
146	100		
111	44.2	21.0	63.0
148	65.7	31.6	95.0

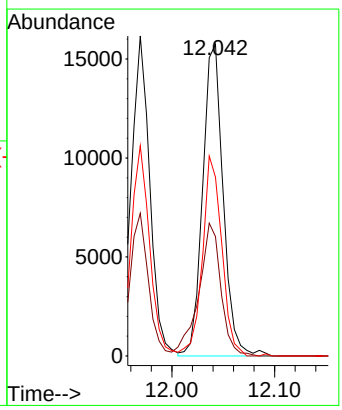


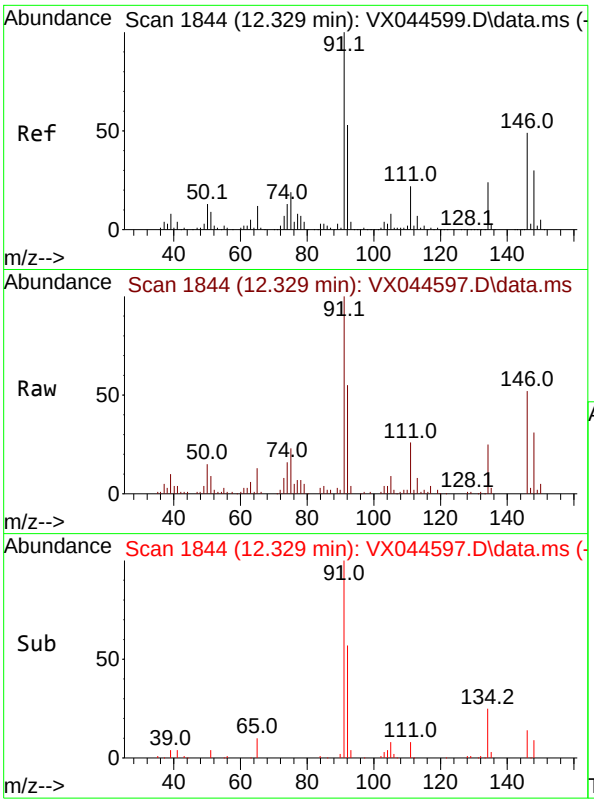


#88
1,4-Dichlorobenzene
Concen: 5.248 ug/l
RT: 12.042 min Scan# 1797
Delta R.T. 0.006 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion:146 Resp: 21839

Ion	Ratio	Lower	Upper
146	100		
111	46.1	20.7	62.1
148	60.4	31.8	95.4



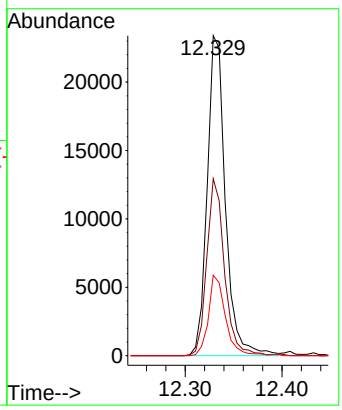


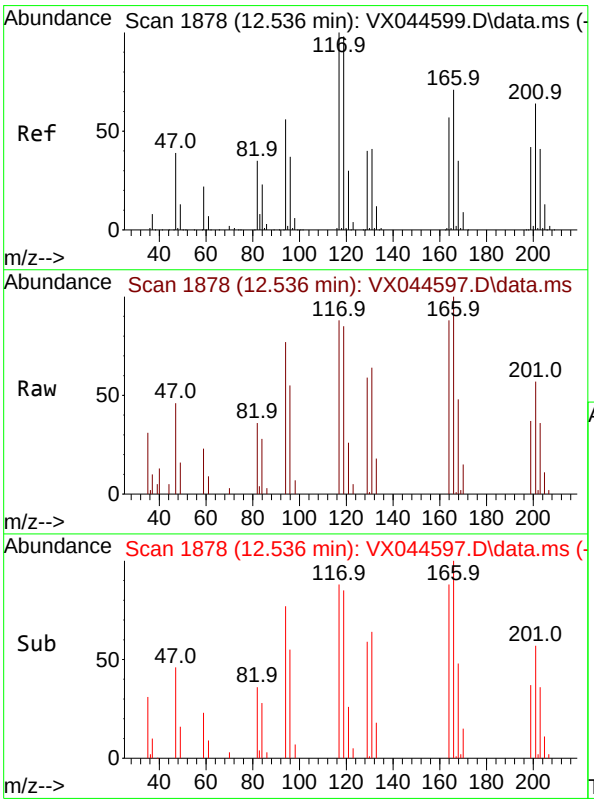
#89
n-Butylbenzene
Concen: 4.731 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 91 Resp: 30630

Ion	Ratio	Lower	Upper
91	100		
92	53.7	26.5	79.4
134	23.7	12.4	37.2

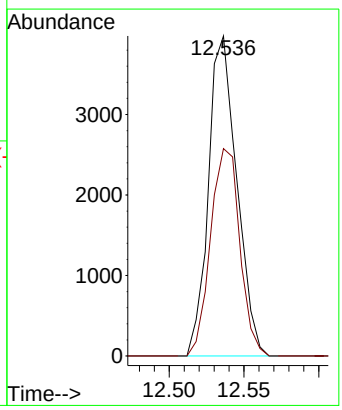


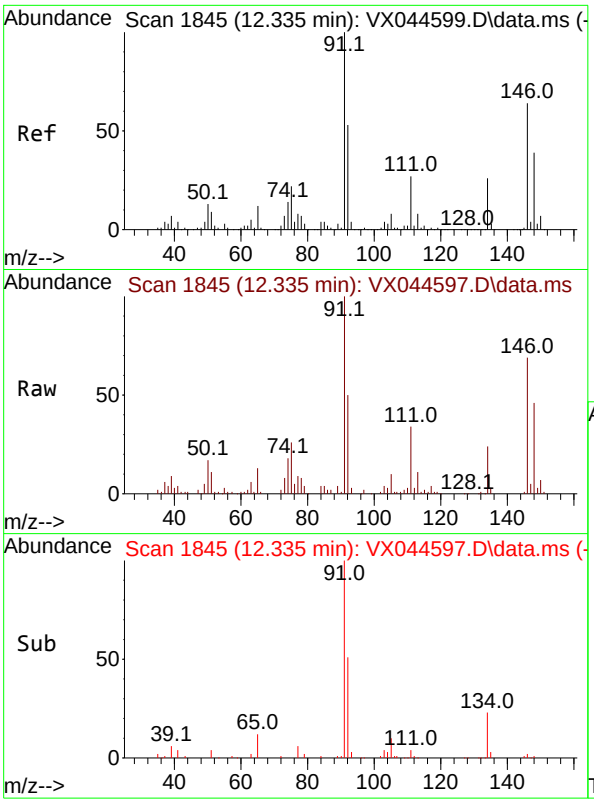


#90
Hexachloroethane
Concen: 4.255 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion:117 Resp: 5241

Ion	Ratio	Lower	Upper
117	100		
201	66.9	33.6	100.6



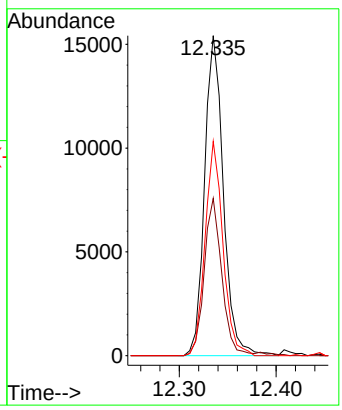


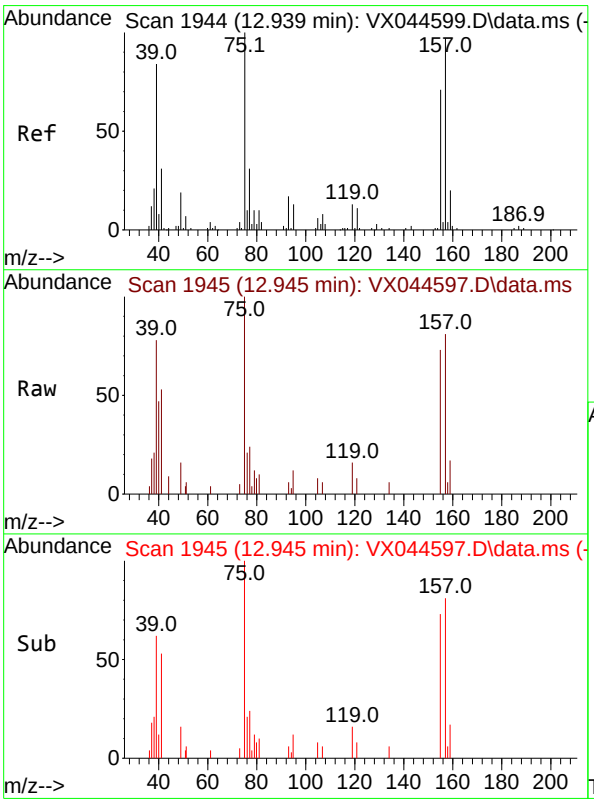
#91
1,2-Dichlorobenzene
Concen: 5.165 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:146 Resp: 20848

Ion	Ratio	Lower	Upper
146	100		
111	45.9	21.8	65.4
148	63.6	31.1	93.3

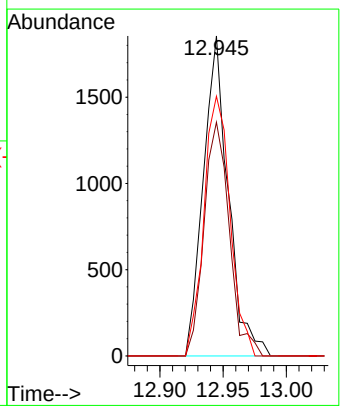


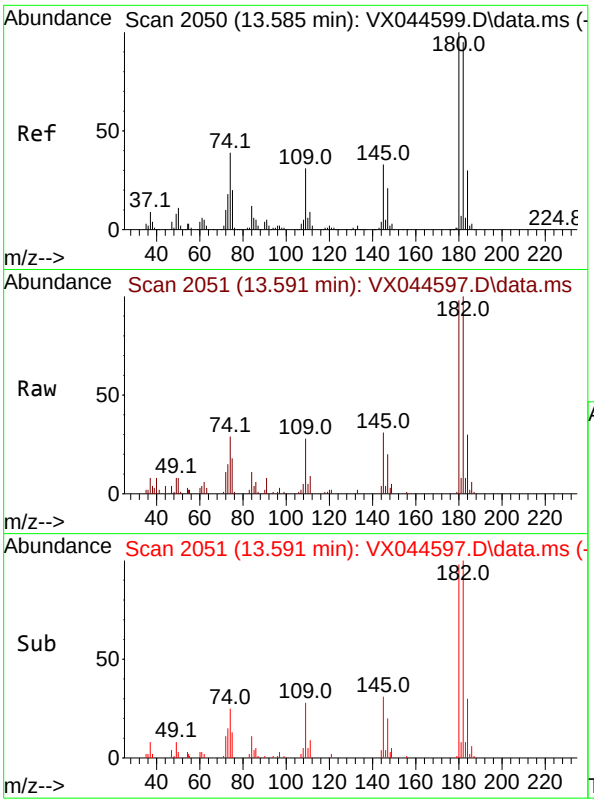


#92
1,2-Dibromo-3-Chloropropane
Concen: 4.591 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. 0.006 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion: 75 Resp: 2550

Ion	Ratio	Lower	Upper
75	100		
155	73.8	37.4	112.1
157	85.1	48.0	144.2



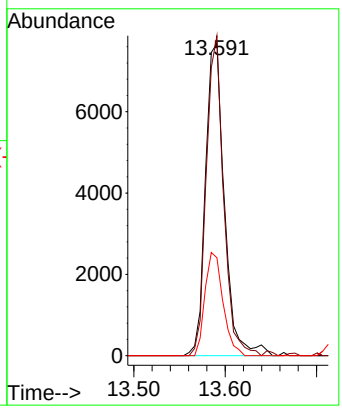


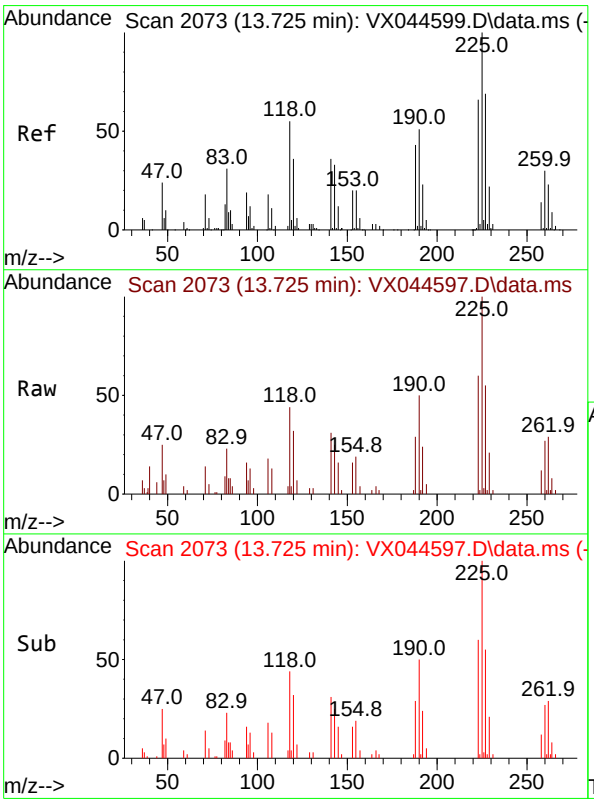
#93
1,2,4-Trichlorobenzene
Concen: 4.650 ug/l
RT: 13.591 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:180 Resp: 11030

Ion	Ratio	Lower	Upper
180	100		
182	92.9	47.9	143.6
145	31.5	16.3	48.9

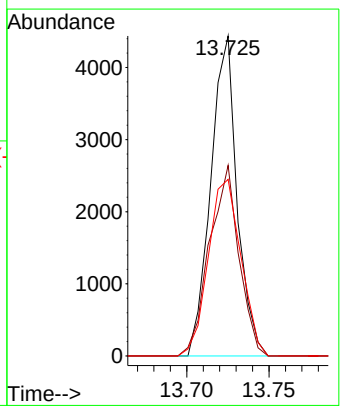


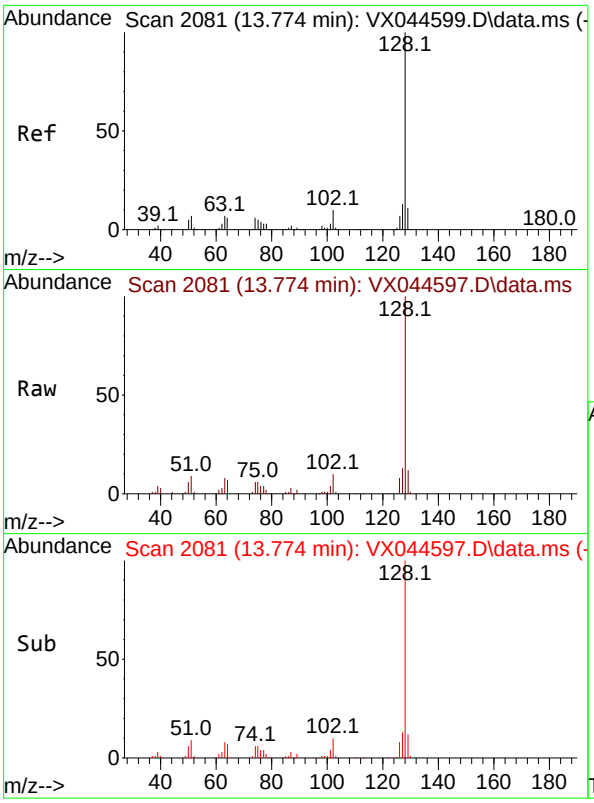


#94
Hexachlorobutadiene
Concen: 5.007 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion:225 Resp: 4946

Ion	Ratio	Lower	Upper
225	100		
223	66.4	31.6	94.8
227	68.4	31.9	95.9



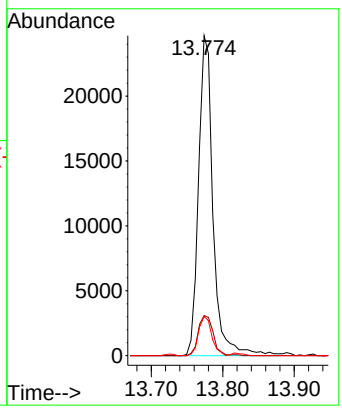


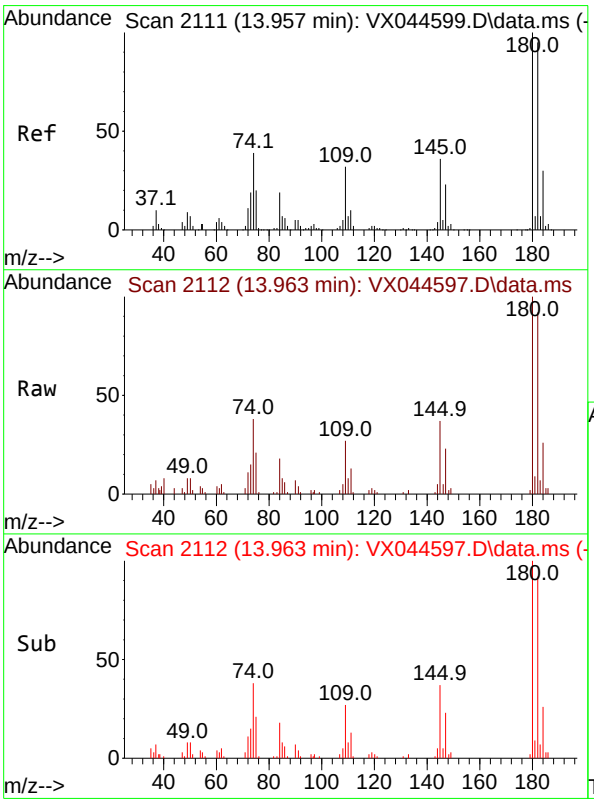
#95
Naphthalene
Concen: 4.533 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:128 Resp: 34693

Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.5	15.7
129	11.2	8.6	13.0

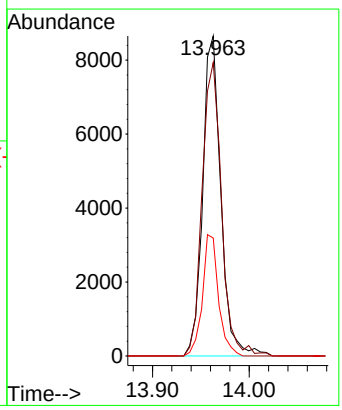




#96
1,2,3-Trichlorobenzene
Concen: 4.667 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. 0.006 min
Lab File: VX044597.D
Acq: 07 Jan 2025 10:29

Tgt Ion:180 Resp: 11316

Ion	Ratio	Lower	Upper
180	100		
182	97.6	47.6	142.9
145	33.8	17.6	52.9



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044598.D
Acq On : 07 Jan 2025 10:51
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Quant Time: Jan 08 02:28:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 02:18:40 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	182852	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	312202	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	273147	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	125618	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	62203	21.098	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	42.200%#		
35) Dibromofluoromethane	5.379	113	43312	20.232	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	40.460%#		
50) Toluene-d8	8.647	98	151532	20.722	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	41.440%#		
62) 4-Bromofluorobenzene	11.079	95	51959	20.131	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	40.260%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	52176	19.721	ug/l	99
3) Chloromethane	1.294	50	53813	20.411	ug/l	95
4) Vinyl Chloride	1.374	62	50882	20.572	ug/l	100
5) Bromomethane	1.599	94	26588	20.753	ug/l	99
6) Chloroethane	1.666	64	27162	20.687	ug/l	100
7) Trichlorofluoromethane	1.873	101	72487	19.683	ug/l	98
8) Diethyl Ether	2.130	74	28020	21.533	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.319	101	42666	20.206	ug/l	99
10) Methyl Iodide	2.447	142	58125	19.741	ug/l	99
11) Tert butyl alcohol	2.995	59	35287	97.199	ug/l	99
12) 1,1-Dichloroethene	2.312	96	40189	19.647	ug/l	92
13) Acrolein	2.233	56	46887	97.681	ug/l	100
14) Allyl chloride	2.660	41	69790	20.514	ug/l	99
15) Acrylonitrile	3.062	53	109174	104.416	ug/l	99
16) Acetone	2.380	43	98646	106.158	ug/l	98
17) Carbon Disulfide	2.501	76	77403	18.299	ug/l	99
18) Methyl Acetate	2.703	43	55761	20.331	ug/l	98
19) Methyl tert-butyl Ether	3.111	73	143696	20.498	ug/l	97
20) Methylene Chloride	2.782	84	48372	20.404	ug/l	97
21) trans-1,2-Dichloroethene	3.087	96	42447	20.218	ug/l	94
22) Diisopropyl ether	3.757	45	148218	21.193	ug/l	96
23) Vinyl Acetate	3.715	43	611827	108.186	ug/l	100
24) 1,1-Dichloroethane	3.605	63	85657	21.020	ug/l	97
25) 2-Butanone	4.562	43	147205	109.752	ug/l	95
26) 2,2-Dichloropropane	4.464	77	72557	20.594	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	52269	20.418	ug/l	99
28) Bromochloromethane	4.891	49	40221	21.204	ug/l	96
29) Tetrahydrofuran	5.001	42	96792	105.382	ug/l	98
30) Chloroform	5.086	83	92017	20.946	ug/l	99
31) Cyclohexane	5.464	56	69453	20.758	ug/l	93
32) 1,1,1-Trichloroethane	5.379	97	76888	20.797	ug/l	99
36) 1,1-Dichloropropene	5.690	75	57525	20.780	ug/l	99
37) Ethyl Acetate	4.708	43	61814	21.845	ug/l	99
38) Carbon Tetrachloride	5.665	117	61261	19.945	ug/l	99
39) Methylcyclohexane	7.372	83	71421	20.220	ug/l	98
40) Benzene	6.031	78	182735	20.965	ug/l	98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044598.D
Acq On : 07 Jan 2025 10:51
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Quant Time: Jan 08 02:28:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 02:18:40 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.916	41	33545	22.068	ug/l		98
42) 1,2-Dichloroethane	6.080	62	75362	22.109	ug/l		100
43) Isopropyl Acetate	6.342	43	99627	21.325	ug/l		100
44) Trichloroethene	7.116	130	44753	20.086	ug/l		99
45) 1,2-Dichloropropane	7.427	63	45374	21.352	ug/l		94
46) Dibromomethane	7.580	93	34533	20.895	ug/l		98
47) Bromodichloromethane	7.818	83	62867	20.903	ug/l		94
48) Methyl methacrylate	7.690	41	48354	21.700	ug/l		98
49) 1,4-Dioxane	7.665	88	14556	444.533	ug/l		94
51) 4-Methyl-2-Pentanone	8.573	43	303467	111.120	ug/l		100
52) Toluene	8.714	92	111872	21.272	ug/l		98
53) t-1,3-Dichloropropene	8.976	75	60752	21.133	ug/l		99
54) cis-1,3-Dichloropropene	8.360	75	66510	20.586	ug/l		95
55) 1,1,2-Trichloroethane	9.153	97	43622	21.158	ug/l		97
56) Ethyl methacrylate	9.116	69	63170	21.068	ug/l		98
57) 1,3-Dichloropropane	9.305	76	76059	21.969	ug/l		98
58) 2-Chloroethyl Vinyl ether	8.238	63	155083	104.333	ug/l		100
59) 2-Hexanone	9.433	43	216998	112.353	ug/l		99
60) Dibromochloromethane	9.518	129	42282	20.568	ug/l		99
61) 1,2-Dibromoethane	9.610	107	44770	21.501	ug/l		96
64) Tetrachloroethene	9.268	164	39569	20.489	ug/l		97
65) Chlorobenzene	10.079	112	118653	20.467	ug/l		98
66) 1,1,1,2-Tetrachloroethane	10.159	131	39956	20.752	ug/l		99
67) Ethyl Benzene	10.189	91	209710	21.066	ug/l		98
68) m/p-Xylenes	10.299	106	155810	42.593	ug/l		98
69) o-Xylene	10.640	106	76065	20.601	ug/l		99
70) Styrene	10.652	104	126293	21.385	ug/l		99
71) Bromoform	10.799	173	24563	19.617	ug/l	#	95
73) Isopropylbenzene	10.957	105	195554	21.012	ug/l		100
74) N-amyl acetate	10.841	43	79390	21.023	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.213	83	61645	20.550	ug/l		98
76) 1,2,3-Trichloropropane	11.238	75	66641	26.464	ug/l		86
77) Bromobenzene	11.195	156	45702	20.215	ug/l		100
78) n-propylbenzene	11.305	91	220954	21.078	ug/l		100
79) 2-Chlorotoluene	11.360	91	139531	20.541	ug/l		98
80) 1,3,5-Trimethylbenzene	11.451	105	164285	21.290	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	14902	18.014	ug/l		89
82) 4-Chlorotoluene	11.451	91	159459	20.867	ug/l		99
83) tert-Butylbenzene	11.713	119	155984	20.301	ug/l		95
84) 1,2,4-Trimethylbenzene	11.750	105	168552	21.745	ug/l		100
85) sec-Butylbenzene	11.890	105	196607	21.010	ug/l		100
86) p-Isopropyltoluene	12.006	119	164348	20.932	ug/l		100
87) 1,3-Dichlorobenzene	11.969	146	84583	20.681	ug/l		99
88) 1,4-Dichlorobenzene	12.036	146	83680	19.638	ug/l		97
89) n-Butylbenzene	12.329	91	138330	20.864	ug/l		99
90) Hexachloroethane	12.536	117	22825	18.096	ug/l		100
91) 1,2-Dichlorobenzene	12.335	146	83880	20.296	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.945	75	11101	19.520	ug/l		96
93) 1,2,4-Trichlorobenzene	13.585	180	47350	19.494	ug/l		98
94) Hexachlorobutadiene	13.719	225	19641	19.419	ug/l		97
95) Naphthalene	13.774	128	162161	20.691	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	49865	20.082	ug/l		100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044598.D
Acq On : 07 Jan 2025 10:51
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Quant Time: Jan 08 02:28:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 02:18:40 2025
Response via : Initial Calibration

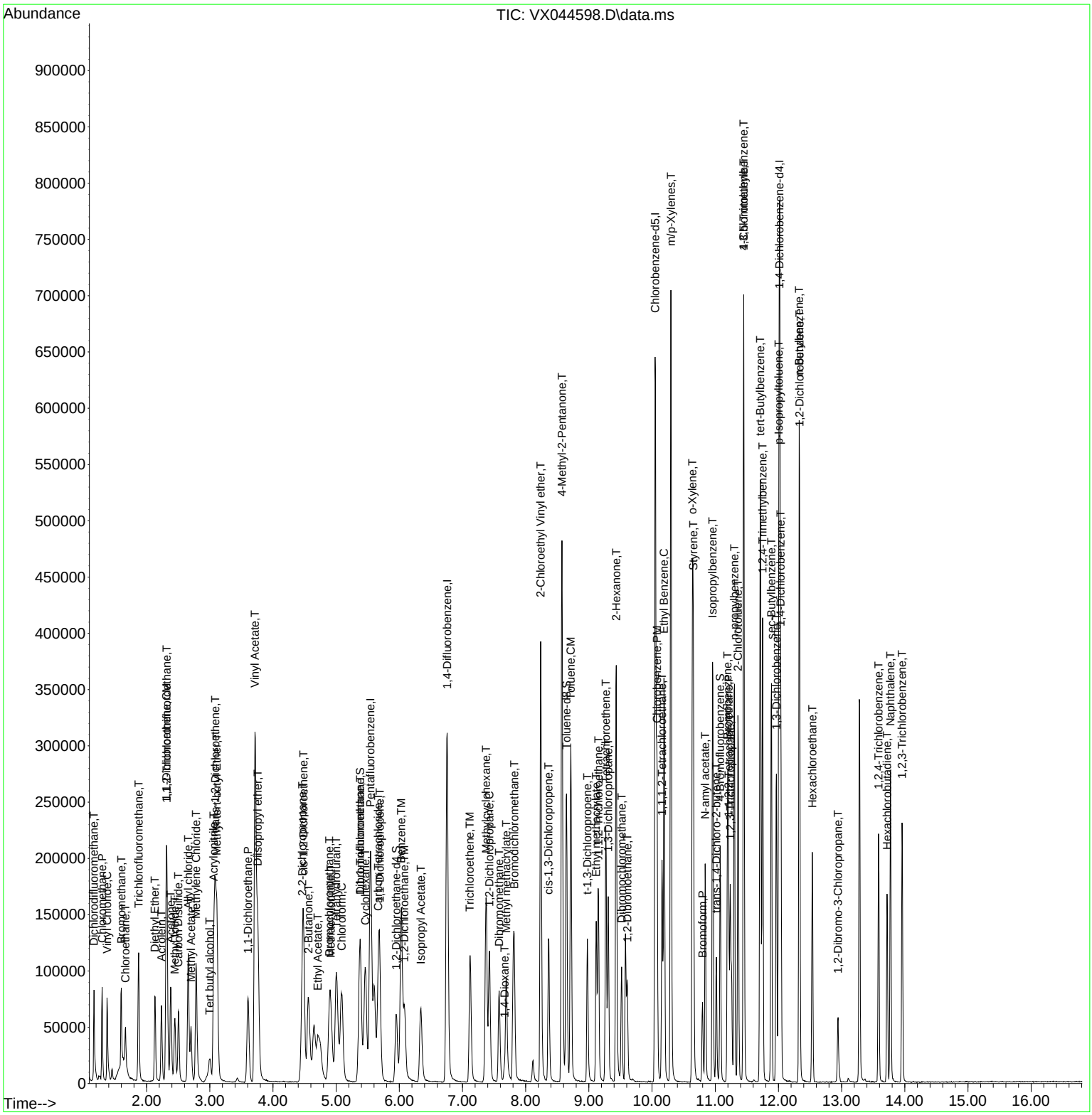
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

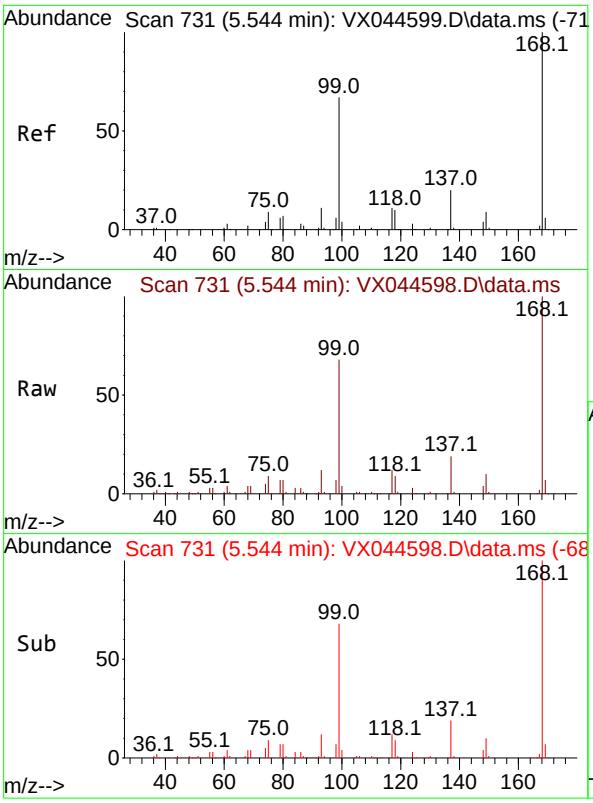
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044598.D
Acq On : 07 Jan 2025 10:51
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Quant Time: Jan 08 02:28:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 02:18:40 2025
Response via : Initial Calibration



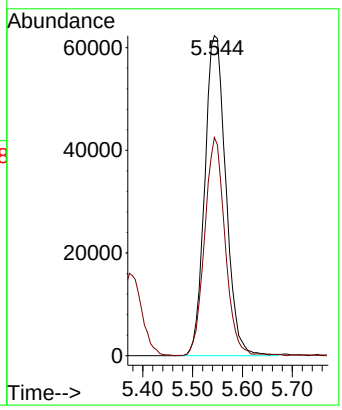


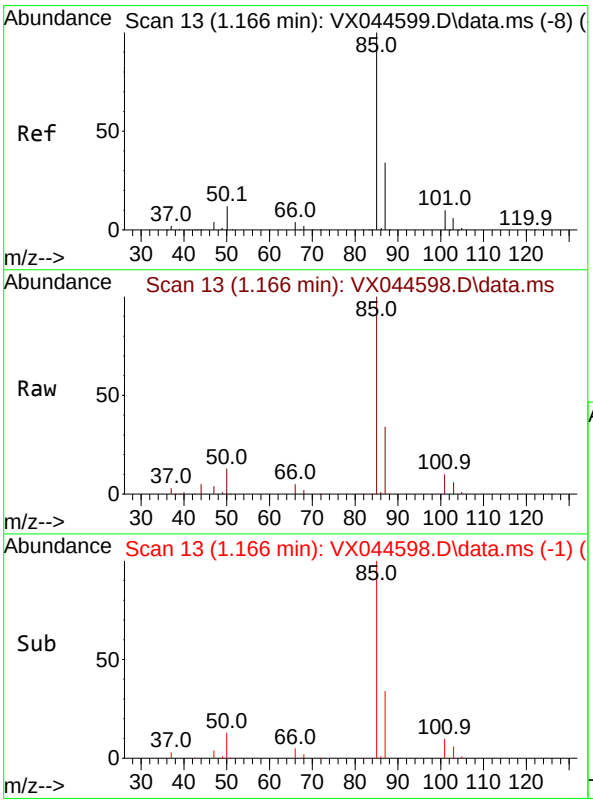
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:168 Resp: 182852

Ion	Ratio	Lower	Upper
168	100		
99	68.1	53.5	80.3

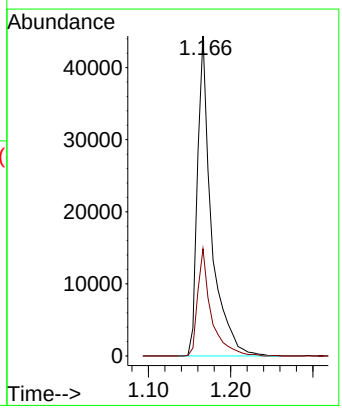


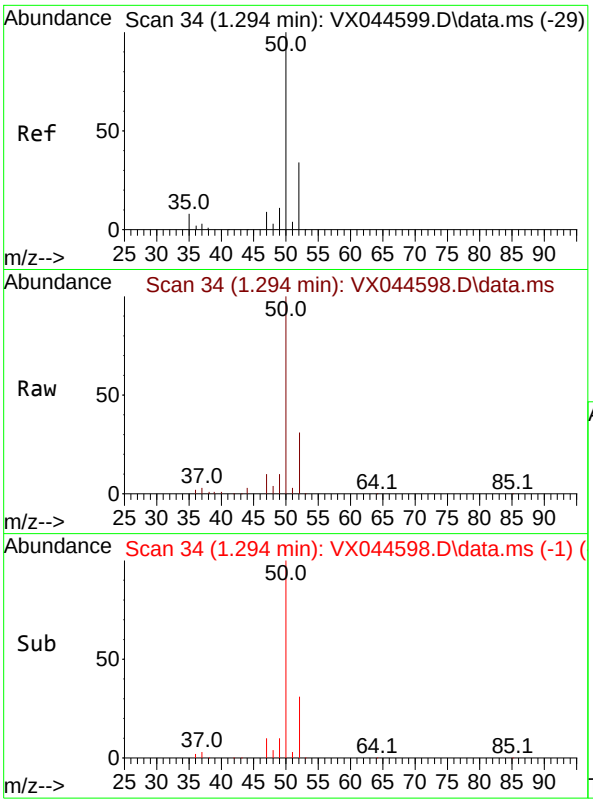


#2
Dichlorodifluoromethane
Concen: 19.721 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 85 Resp: 52176

Ion	Ratio	Lower	Upper
85	100		
87	33.5	17.2	51.5



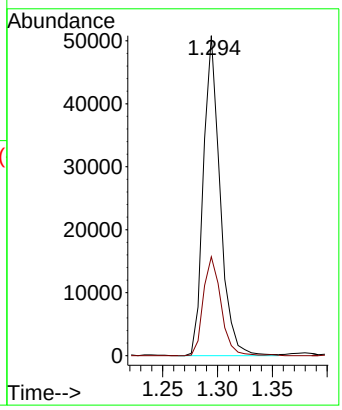


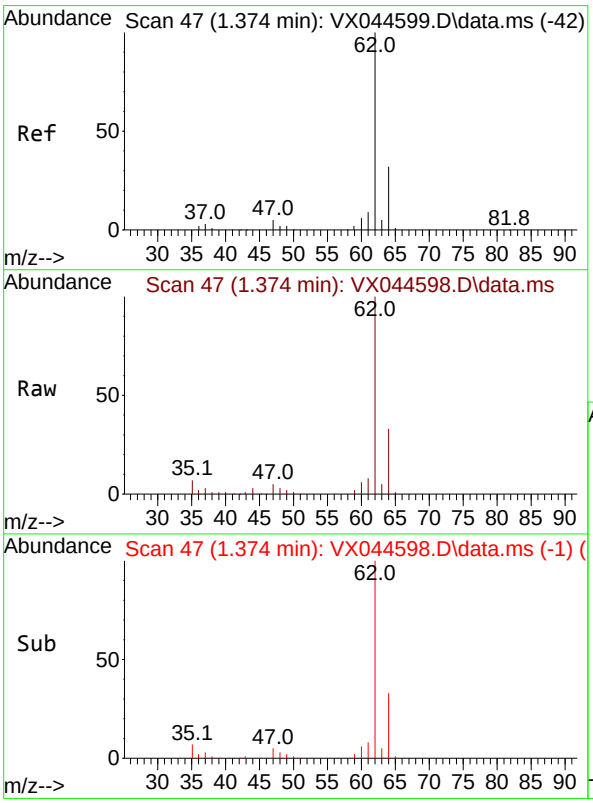
#3
Chloromethane
Concen: 20.411 ug/l
RT: 1.294 min Scan# 34
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 50 Resp: 53813

Ion	Ratio	Lower	Upper
50	100		
52	30.9	27.0	40.4

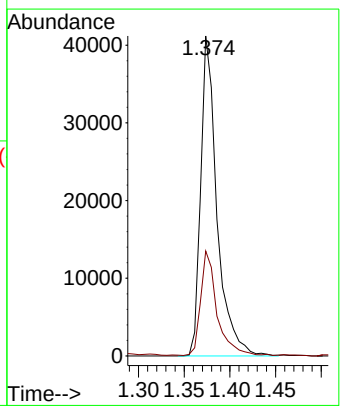


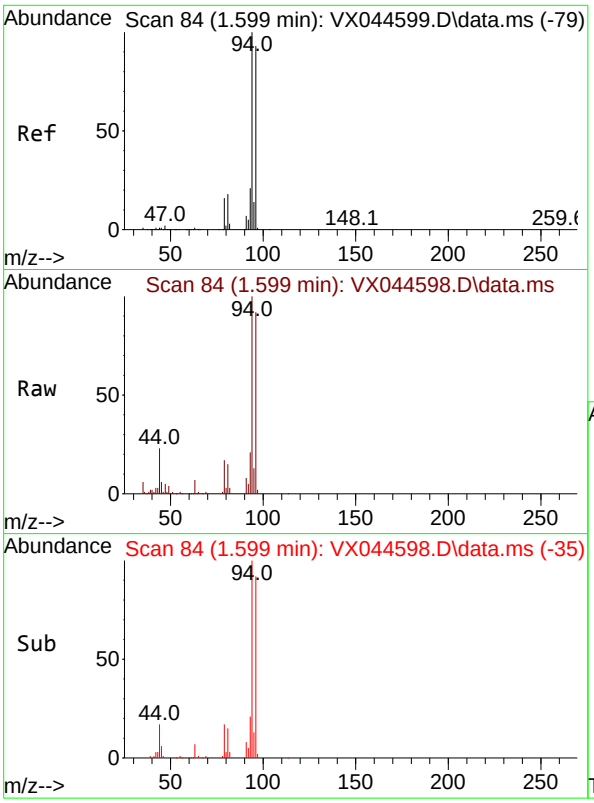


#4
Vinyl Chloride
Concen: 20.572 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 62 Resp: 50882

Ion	Ratio	Lower	Upper
62	100		
64	32.6	26.0	39.0



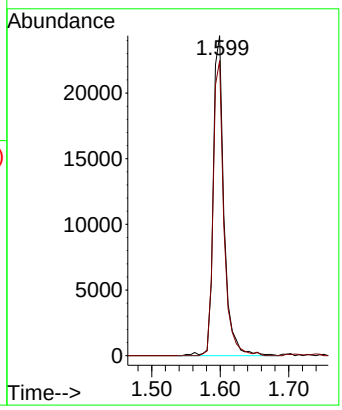


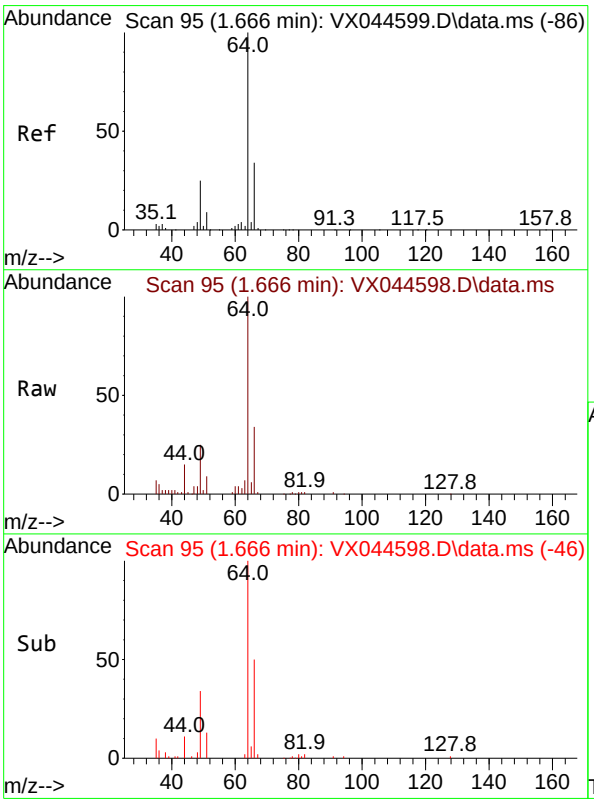
#5
Bromomethane
Concen: 20.753 ug/l
RT: 1.599 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 94 Resp: 26588

Ion	Ratio	Lower	Upper
94	100		
96	92.2	74.6	112.0

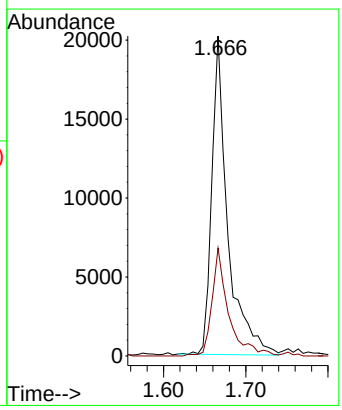


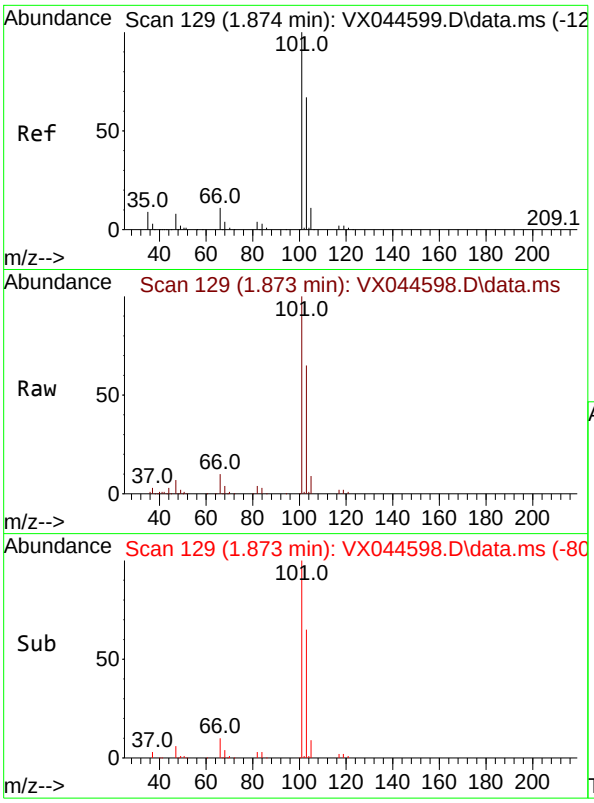


#6
Chloroethane
Concen: 20.687 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 64 Resp: 27162

Ion	Ratio	Lower	Upper
64	100		
66	33.9	27.3	40.9



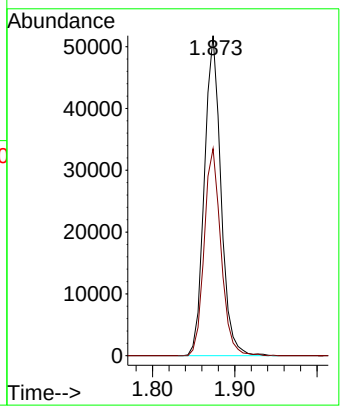


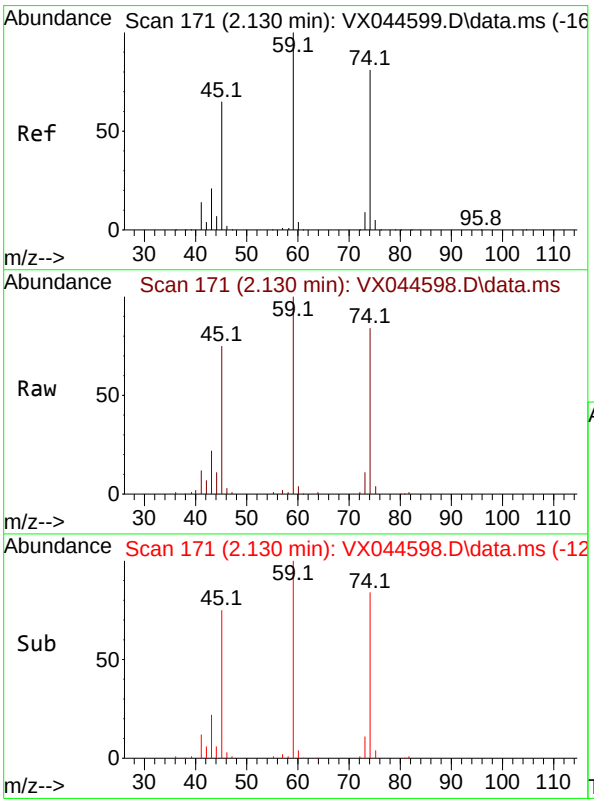
#7
Trichlorofluoromethane
Concen: 19.683 ug/l
RT: 1.873 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:101 Resp: 72487

Ion	Ratio	Lower	Upper
101	100		
103	64.7	53.3	79.9

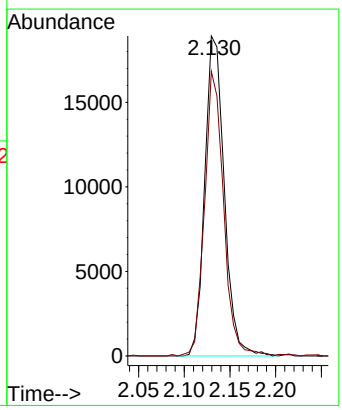


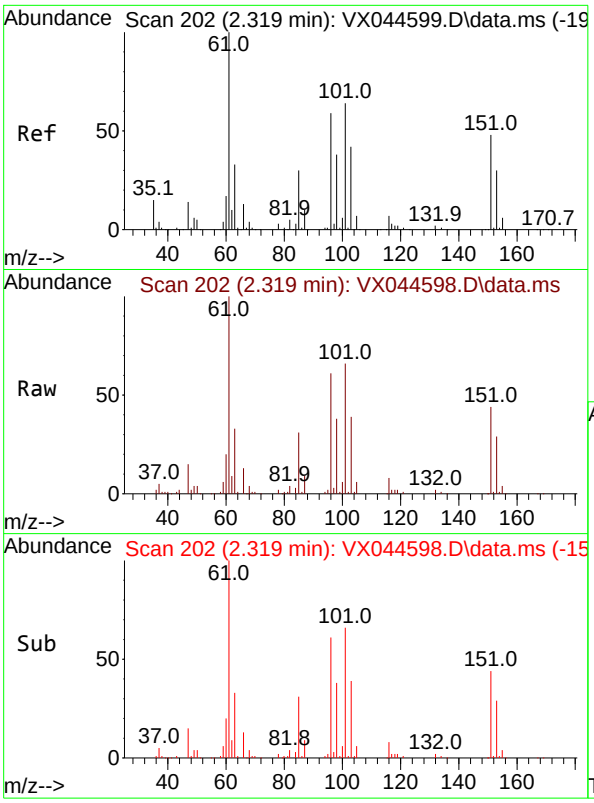


#8
Diethyl Ether
Concen: 21.533 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 74 Resp: 28020

Ion	Ratio	Lower	Upper
74	100		
45	86.8	41.7	125.1



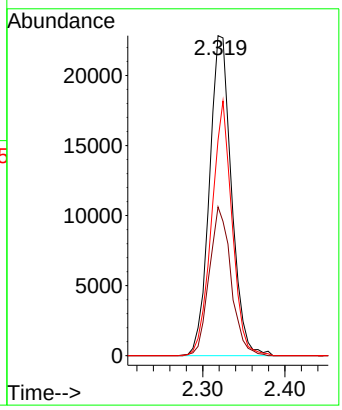


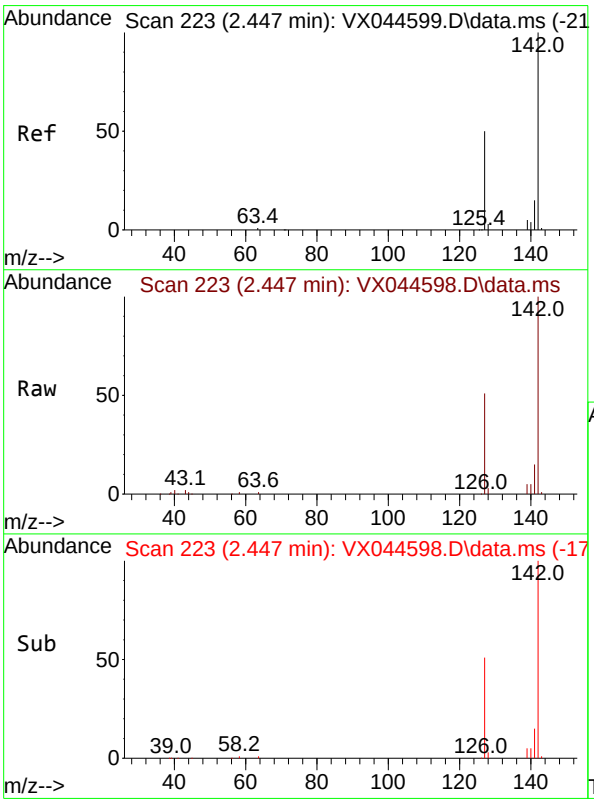
#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.206 ug/l
RT: 2.319 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:101 Resp: 42666

Ion	Ratio	Lower	Upper
101	100		
85	45.9	36.5	54.7
151	73.7	58.6	87.8

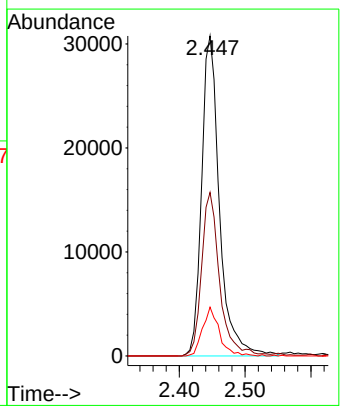


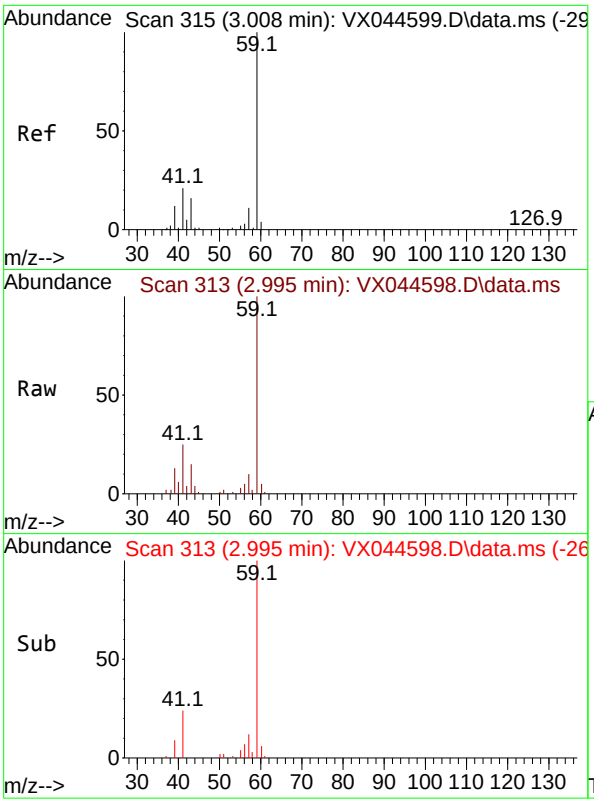


#10
Methyl Iodide
Concen: 19.741 ug/l
RT: 2.447 min Scan# 223
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion:142 Resp: 58125

Ion	Ratio	Lower	Upper
142	100		
127	51.6	41.9	62.9
141	14.4	11.8	17.6



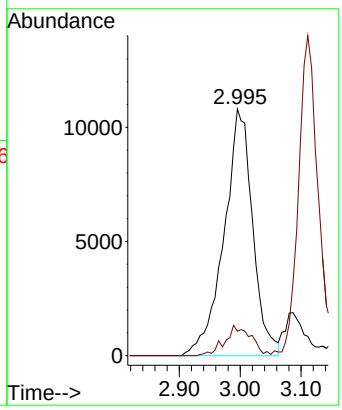


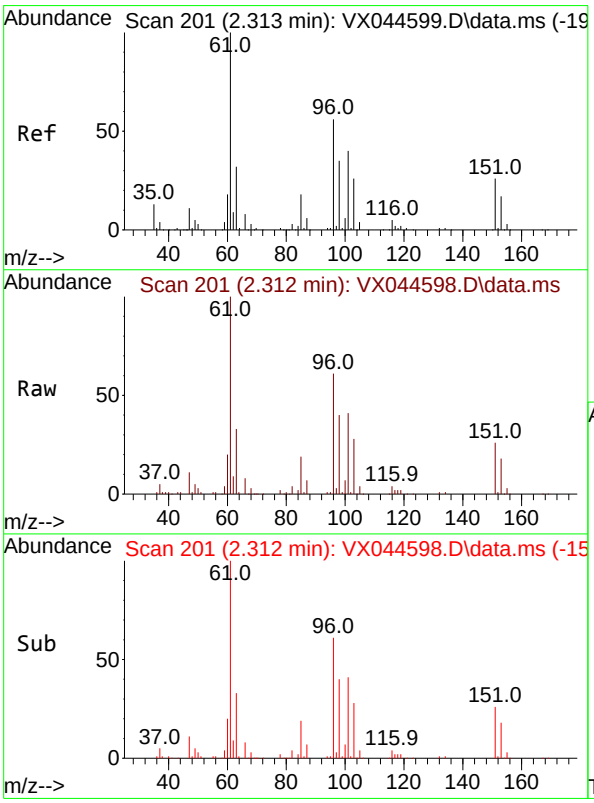
#11
Tert butyl alcohol
Concen: 97.199 ug/l
RT: 2.995 min Scan# 3
Delta R.T. -0.012 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 59 Resp: 35287

Ion	Ratio	Lower	Upper
59	100		
57	11.2	8.6	12.8

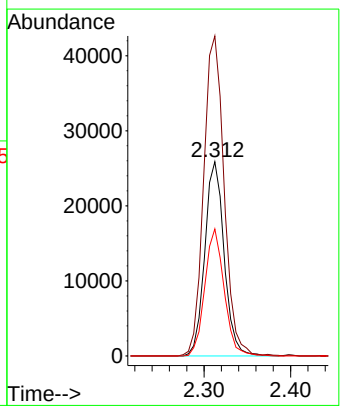


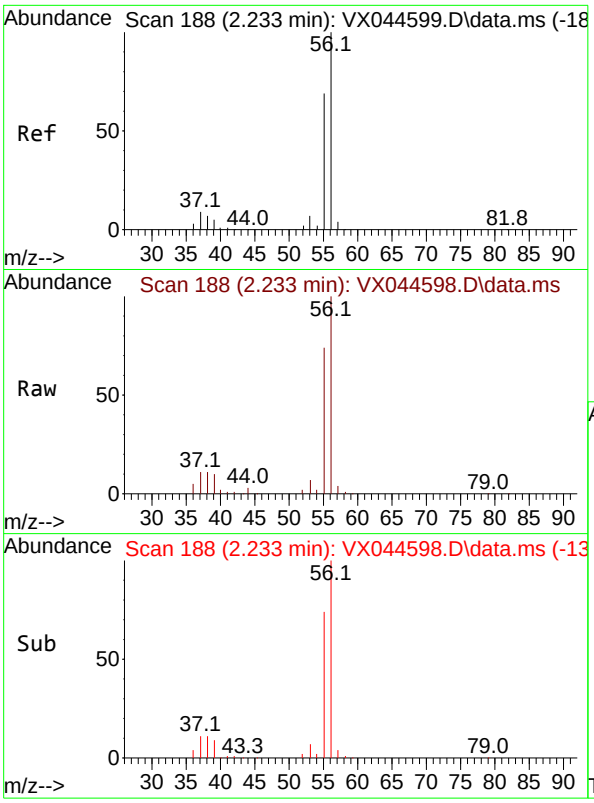


#12
1,1-Dichloroethene
Concen: 19.647 ug/l
RT: 2.312 min Scan# 201
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 96 Resp: 40189

Ion	Ratio	Lower	Upper
96	100		
61	164.7	143.3	214.9
98	65.4	50.6	76.0



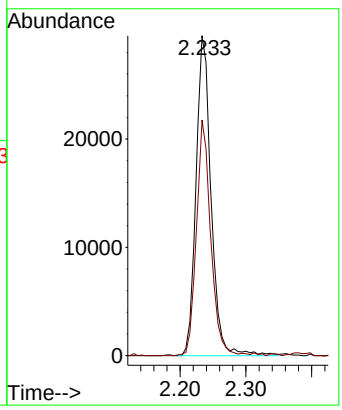


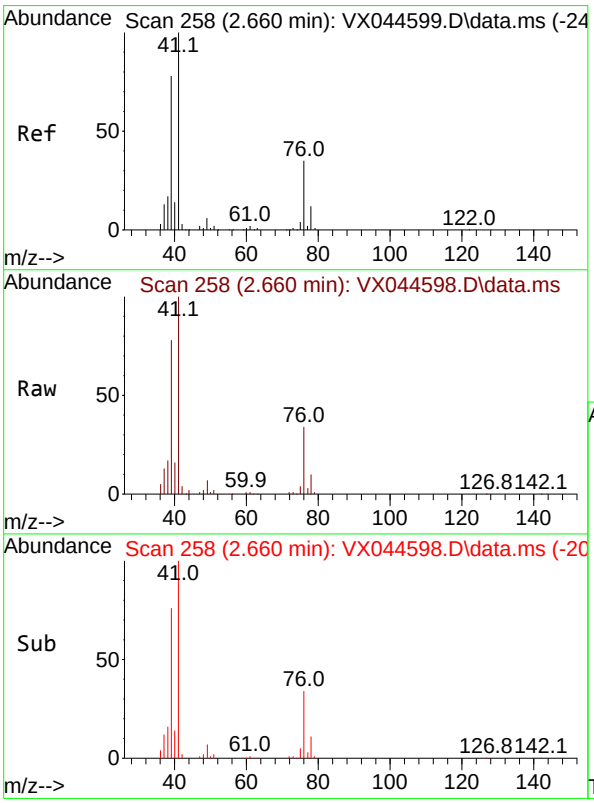
#13
Acrolein
Concen: 97.681 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 56 Resp: 46887

Ion	Ratio	Lower	Upper
56	100		
55	70.1	55.8	83.8

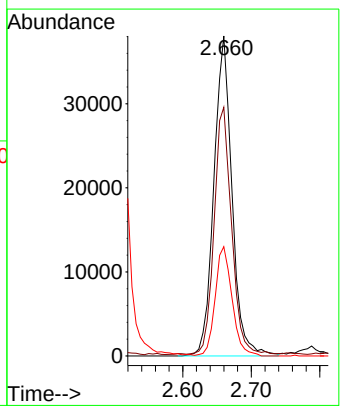


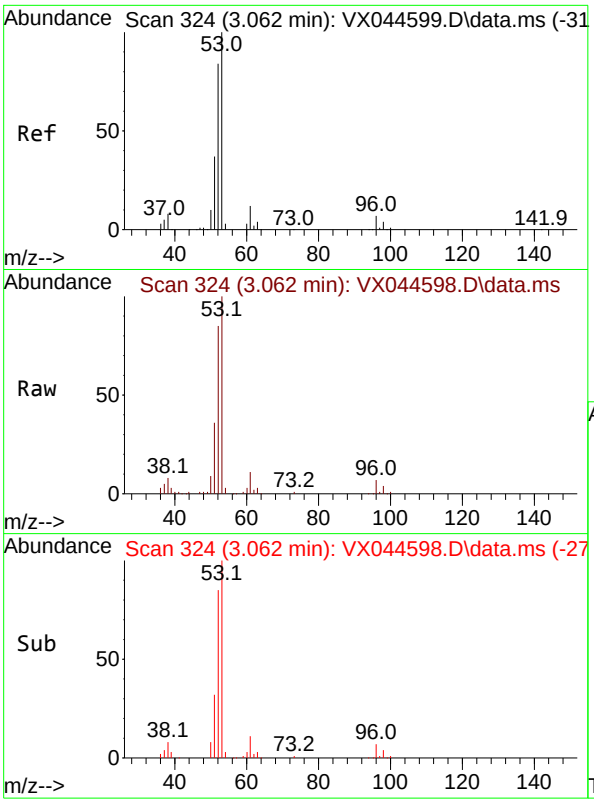


#14
Allyl chloride
Concen: 20.514 ug/l
RT: 2.660 min Scan# 258
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 41 Resp: 69790

Ion	Ratio	Lower	Upper
41	100		
39	73.9	60.2	90.2
76	31.8	25.9	38.9



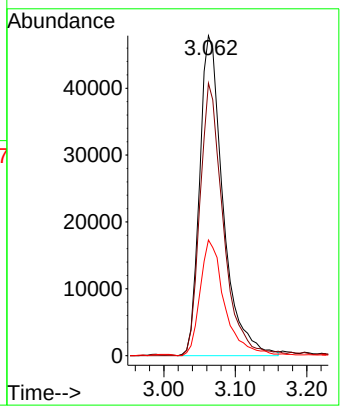


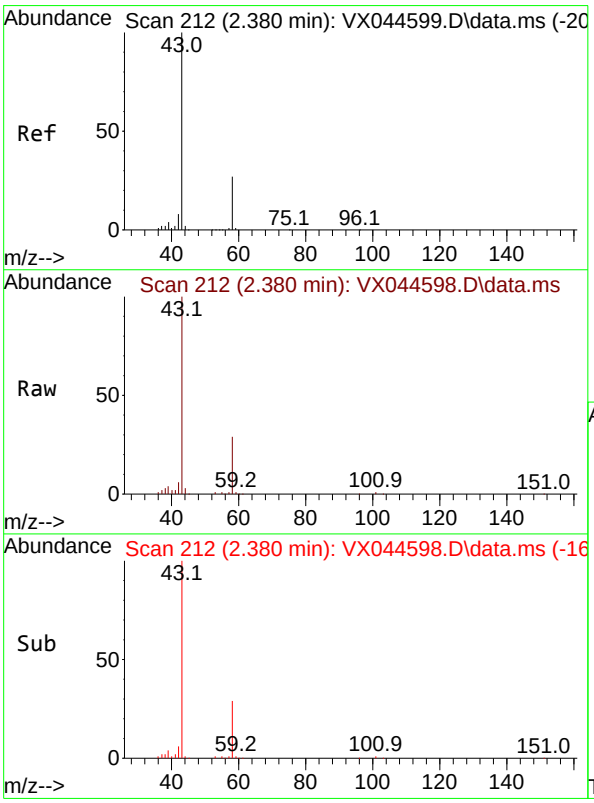
#15
Acrylonitrile
Concen: 104.416 ug/l
RT: 3.062 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 53 Resp: 109174

Ion	Ratio	Lower	Upper
53	100		
52	84.3	67.0	100.6
51	37.8	29.4	44.0

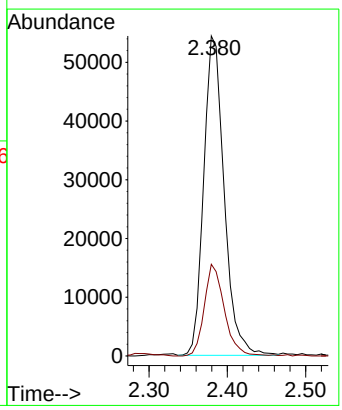


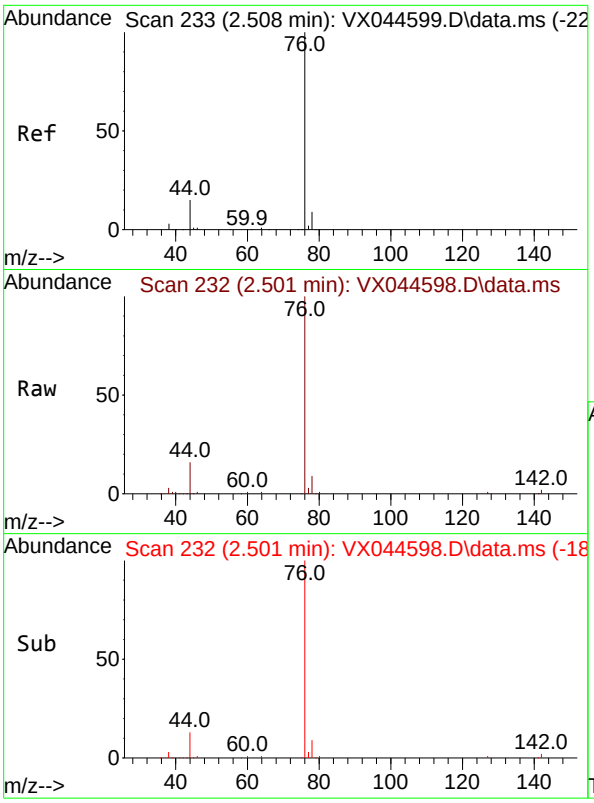


#16
Acetone
Concen: 106.158 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 43 Resp: 98646

Ion	Ratio	Lower	Upper
43	100		
58	28.7	22.0	33.0



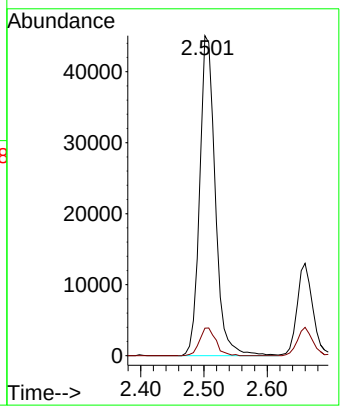


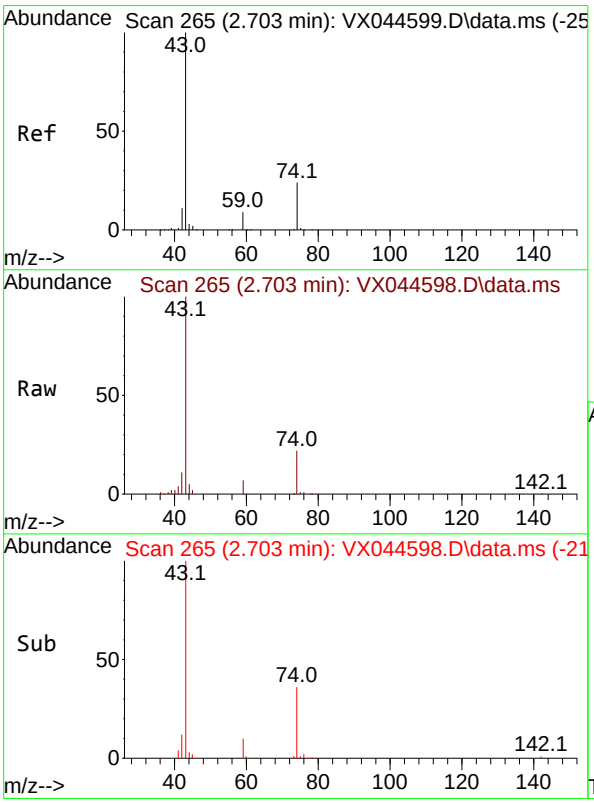
#17
Carbon Disulfide
Concen: 18.299 ug/l
RT: 2.501 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 76 Resp: 77403

Ion	Ratio	Lower	Upper
76	100		
78	8.6	7.1	10.7

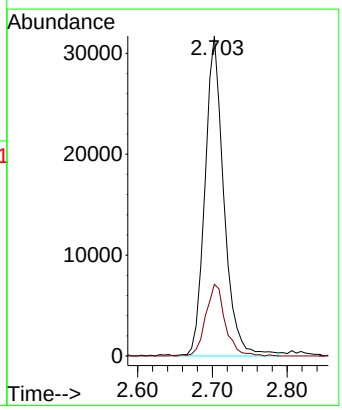


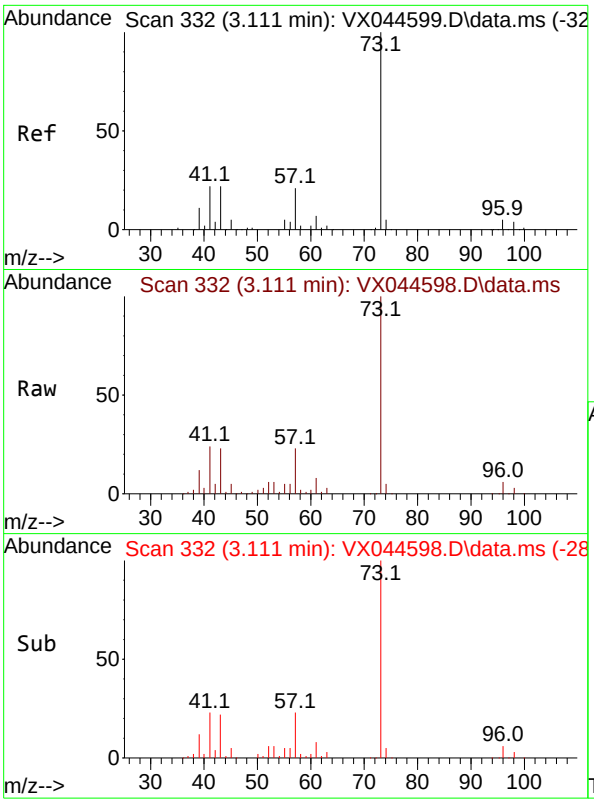


#18
Methyl Acetate
Concen: 20.331 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 43 Resp: 55761

Ion	Ratio	Lower	Upper
43	100		
74	23.1	19.3	28.9



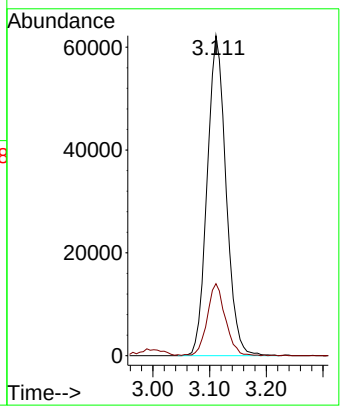


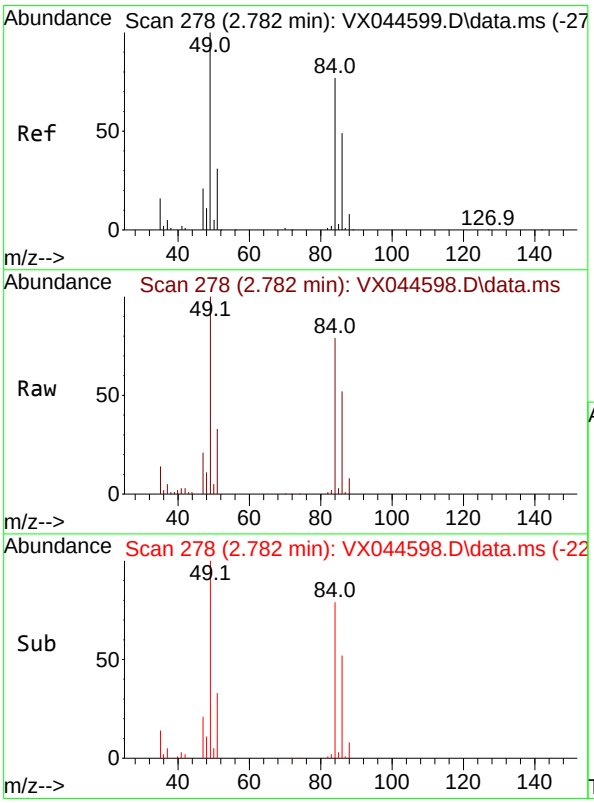
#19
Methyl tert-butyl Ether
Concen: 20.498 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 73 Resp: 143696

Ion	Ratio	Lower	Upper
73	100		
57	22.5	17.0	25.4

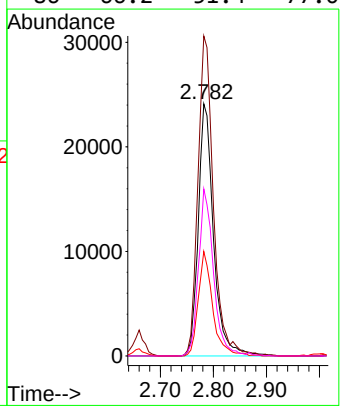


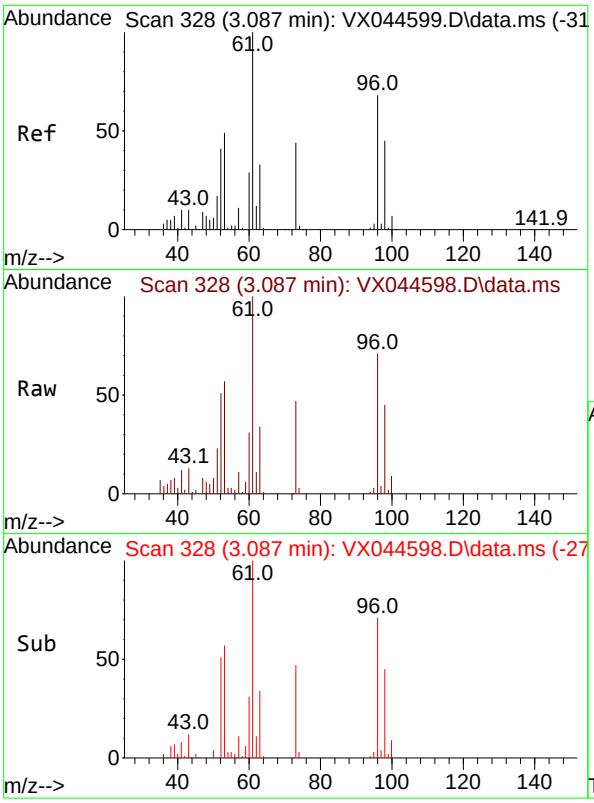


#20
Methylene Chloride
Concen: 20.404 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 84 Resp: 48372

Ion	Ratio	Lower	Upper
84	100		
49	126.9	104.4	156.6
51	41.4	32.0	48.0
86	66.2	51.4	77.0



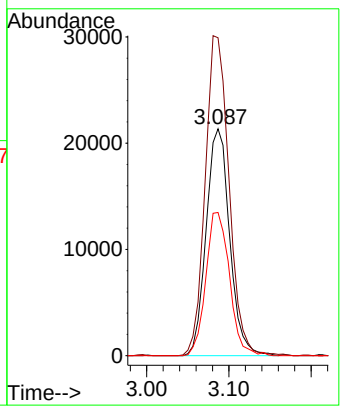


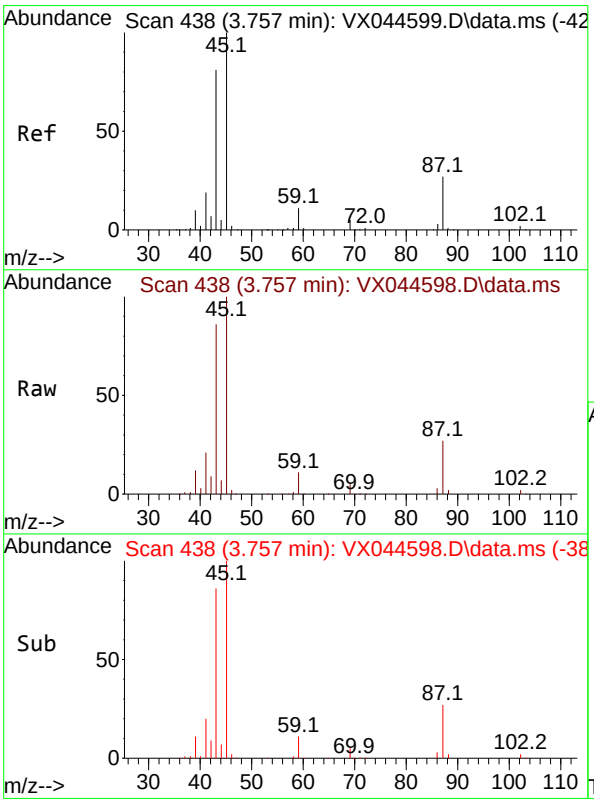
#21
trans-1,2-Dichloroethene
Concen: 20.218 ug/l
RT: 3.087 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 96 Resp: 42447

Ion	Ratio	Lower	Upper
96	100		
61	140.1	118.5	177.7
98	63.1	53.4	80.0

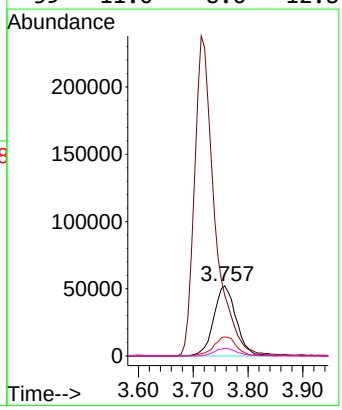


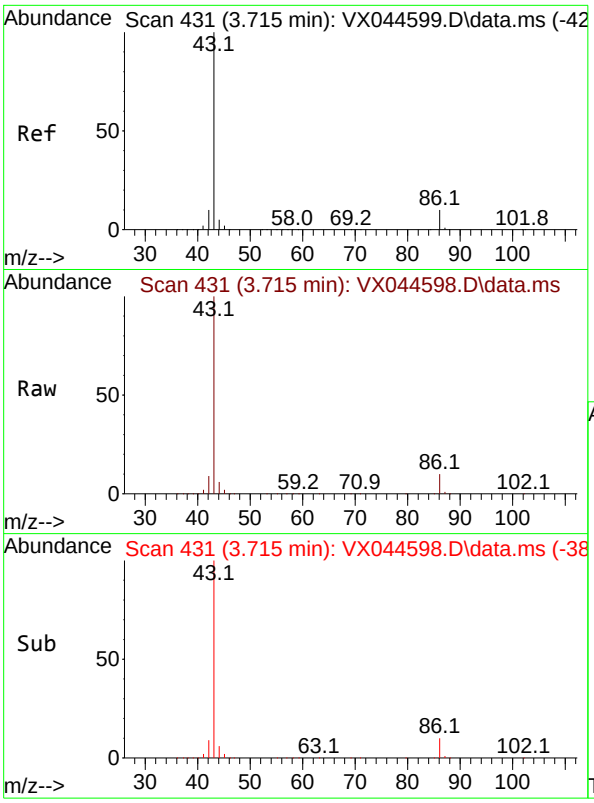


#22
Diisopropyl ether
Concen: 21.193 ug/l
RT: 3.757 min Scan# 438
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 45 Resp: 148218

Ion	Ratio	Lower	Upper
45	100		
43	85.8	64.6	97.0
87	27.1	21.8	32.8
59	11.0	8.6	12.8



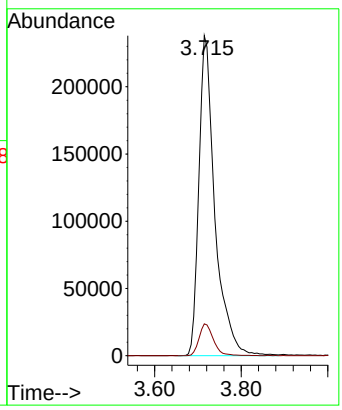


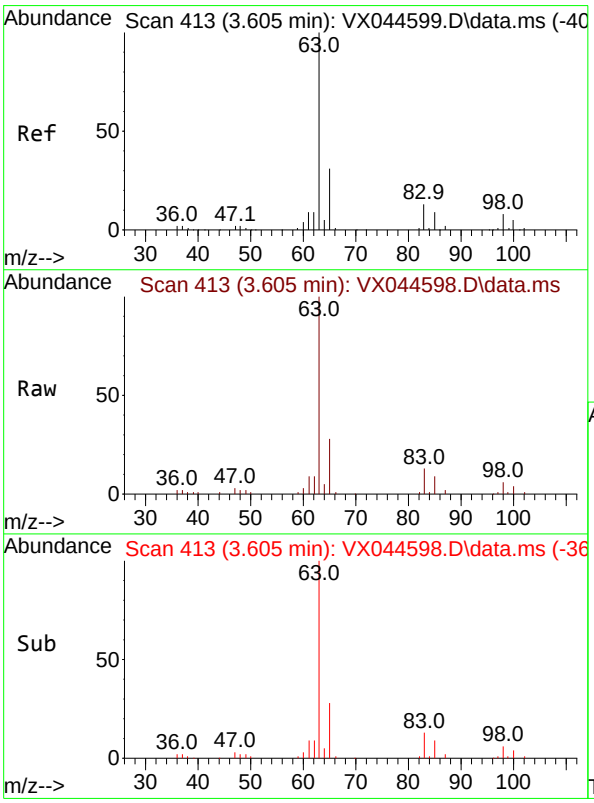
#23
Vinyl Acetate
Concen: 108.186 ug/l
RT: 3.715 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 611827

Ion	Ratio	Lower	Upper
43	100		
86	10.0	8.1	12.1

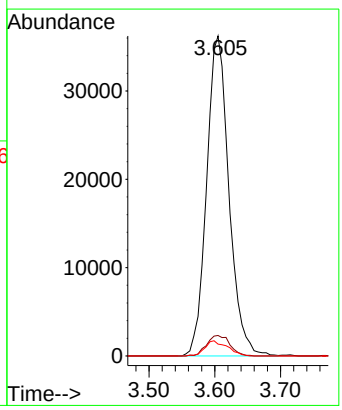


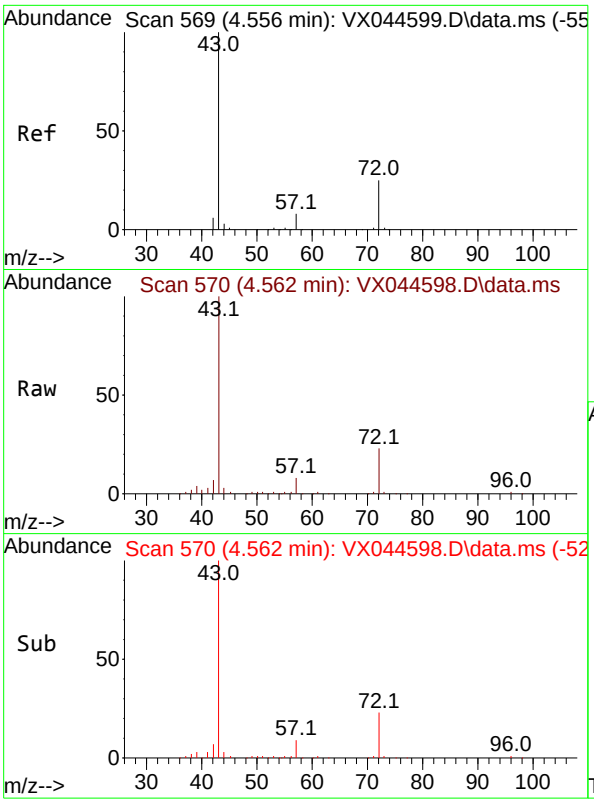


#24
1,1-Dichloroethane
Concen: 21.020 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 63 Resp: 85657

Ion	Ratio	Lower	Upper
63	100		
98	6.4	3.8	11.4
100	3.7	2.4	7.2



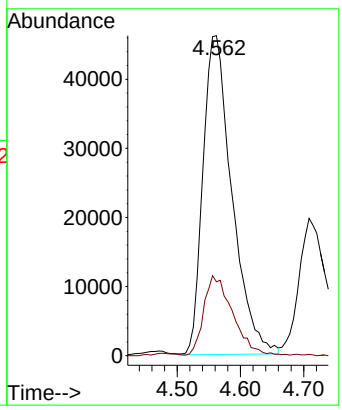


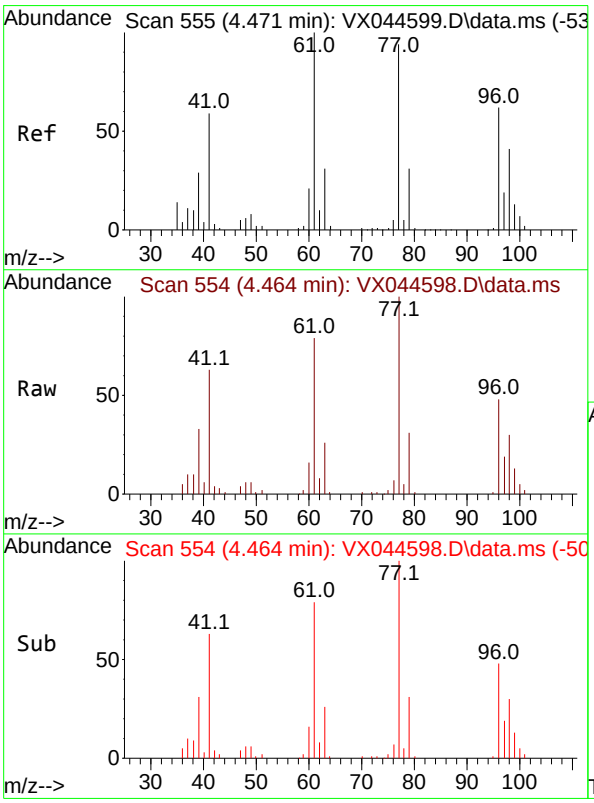
#25
2-Butanone
Concen: 109.752 ug/l
RT: 4.562 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 147205

Ion	Ratio	Lower	Upper
43	100		
72	22.8	20.2	30.2

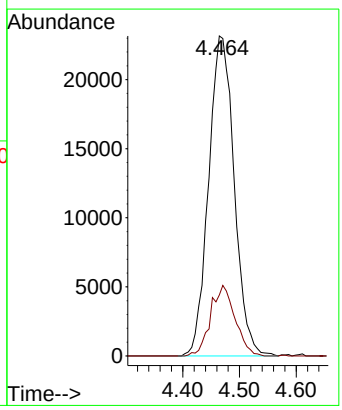


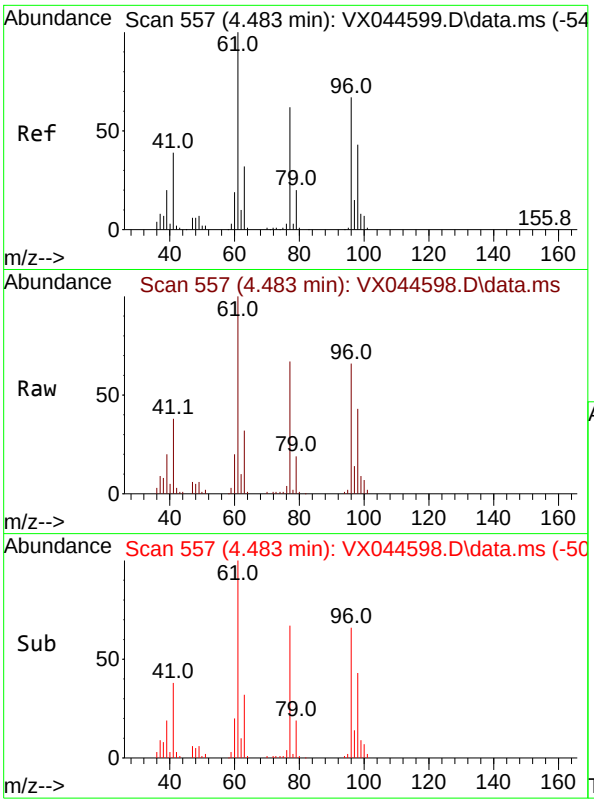


#26
2,2-Dichloropropane
Concen: 20.594 ug/l
RT: 4.464 min Scan# 554
Delta R.T. -0.006 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 77 Resp: 72557

Ion	Ratio	Lower	Upper
77	100		
97	21.1	10.7	32.1



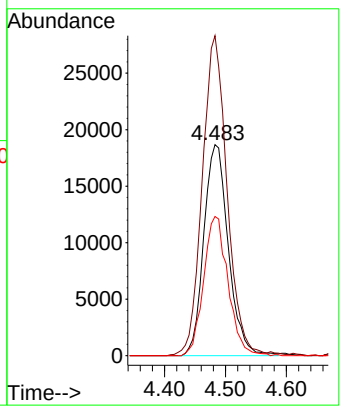


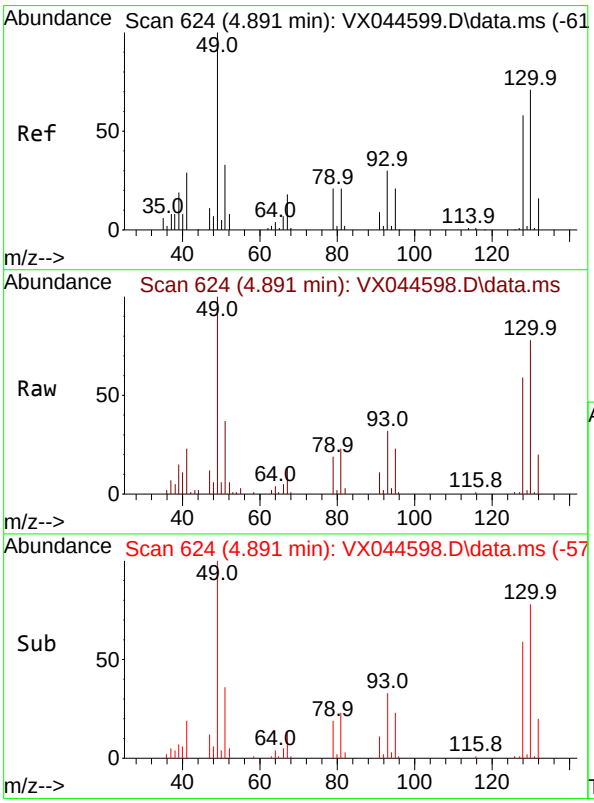
#27
cis-1,2-Dichloroethene
Concen: 20.418 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 96 Resp: 52269

Ion	Ratio	Lower	Upper
96	100		
61	152.7	0.0	302.8
98	65.6	0.0	130.0

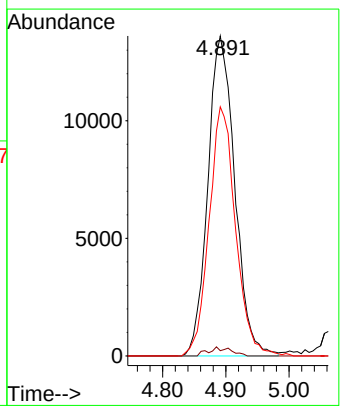


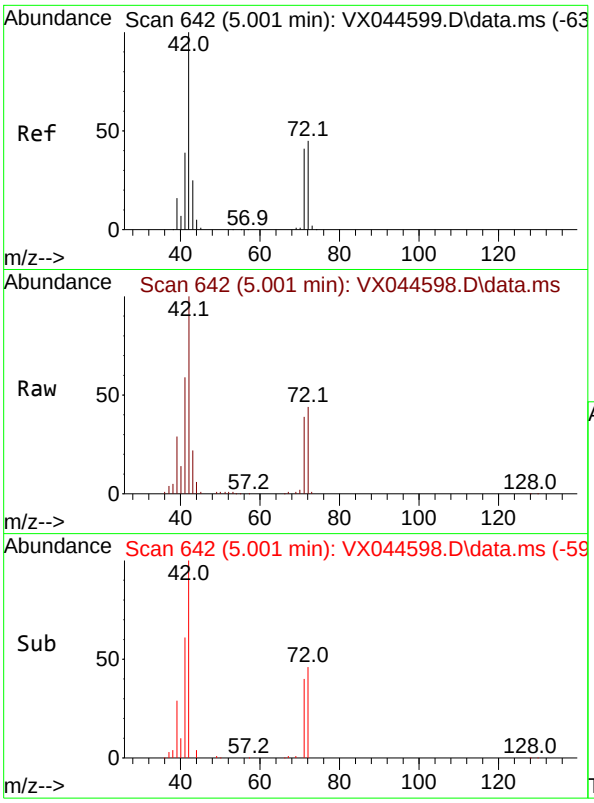


#28
Bromochloromethane
Concen: 21.204 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 49 Resp: 40221

Ion	Ratio	Lower	Upper
49	100		
129	2.3	0.0	4.2
130	76.6	58.8	88.2



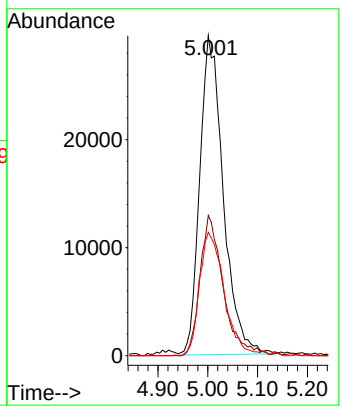


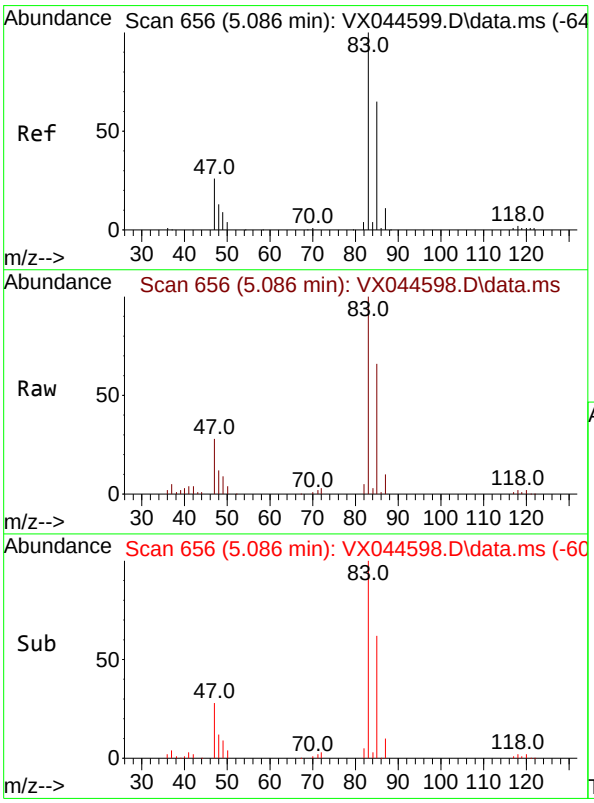
#29
Tetrahydrofuran
Concen: 105.382 ug/l
RT: 5.001 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 42 Resp: 96792

Ion	Ratio	Lower	Upper
42	100		
72	43.3	36.1	54.1
71	40.4	33.0	49.6

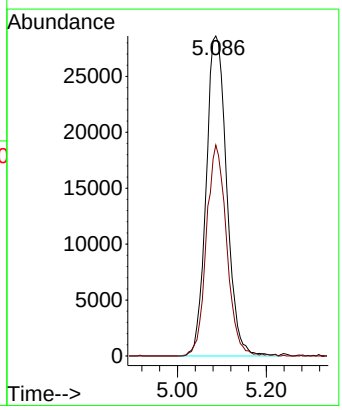


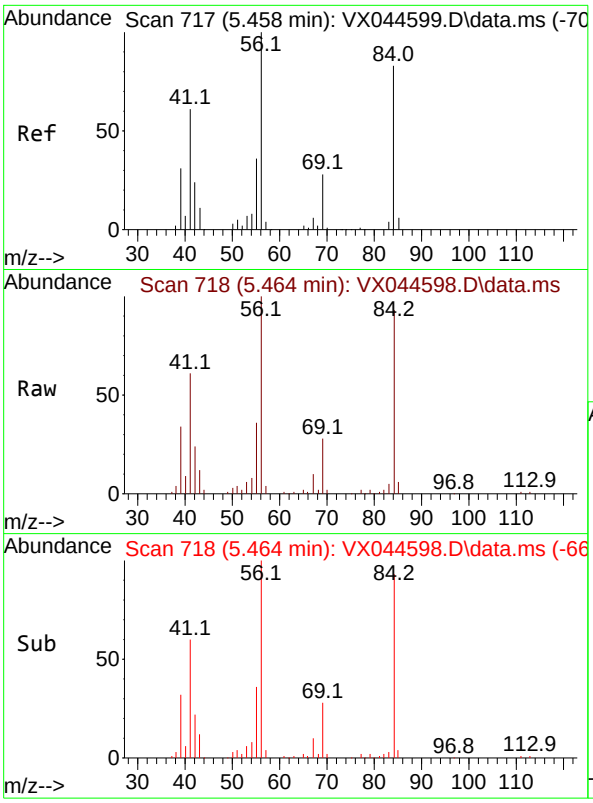


#30
Chloroform
Concen: 20.946 ug/l
RT: 5.086 min Scan# 656
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 83 Resp: 92017

Ion	Ratio	Lower	Upper
83	100		
85	65.9	52.3	78.5



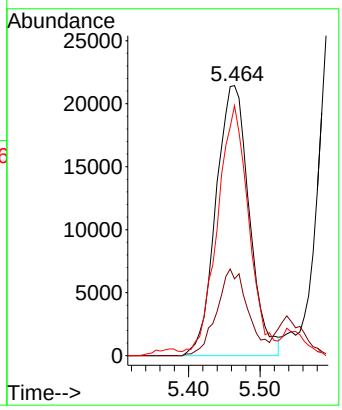


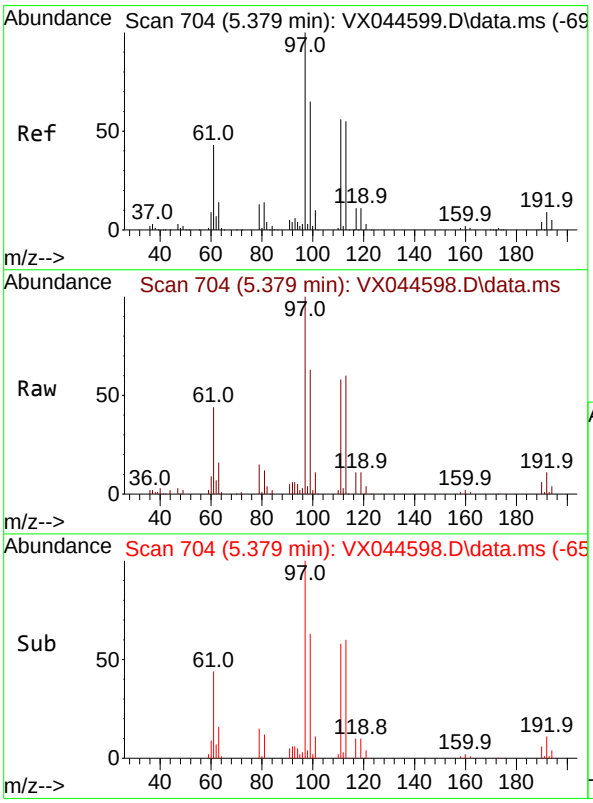
#31
Cyclohexane
Concen: 20.758 ug/l
RT: 5.464 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 56 Resp: 69453

Ion	Ratio	Lower	Upper
56	100		
69	28.4	22.2	33.4
84	90.9	66.6	100.0

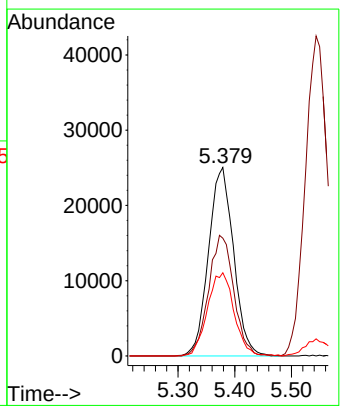


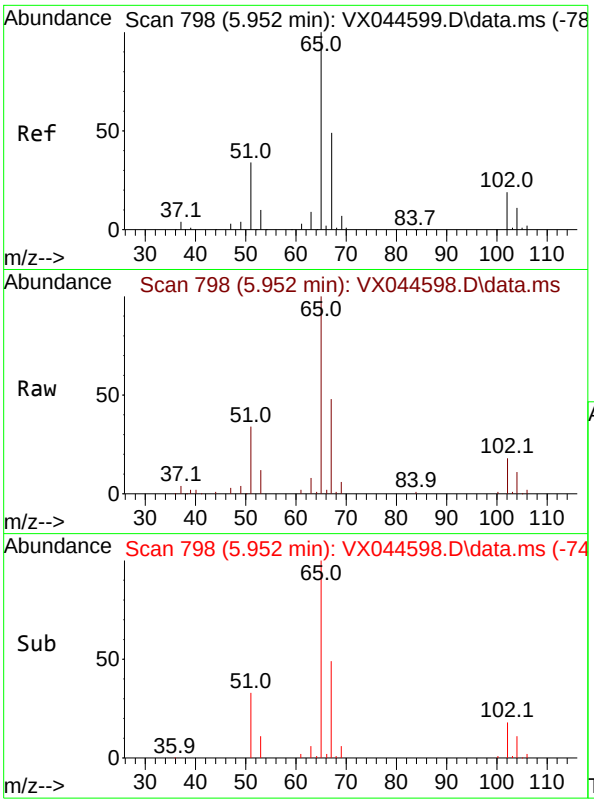


#32
1,1,1-Trichloroethane
Concen: 20.797 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 97 Resp: 76888

Ion	Ratio	Lower	Upper
97	100		
99	64.6	52.1	78.1
61	47.0	36.8	55.2



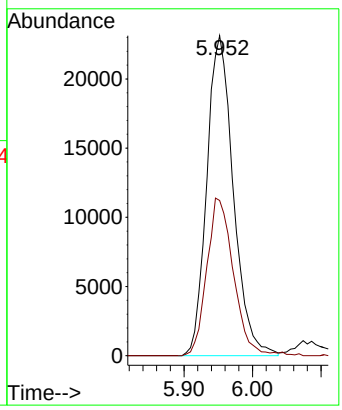


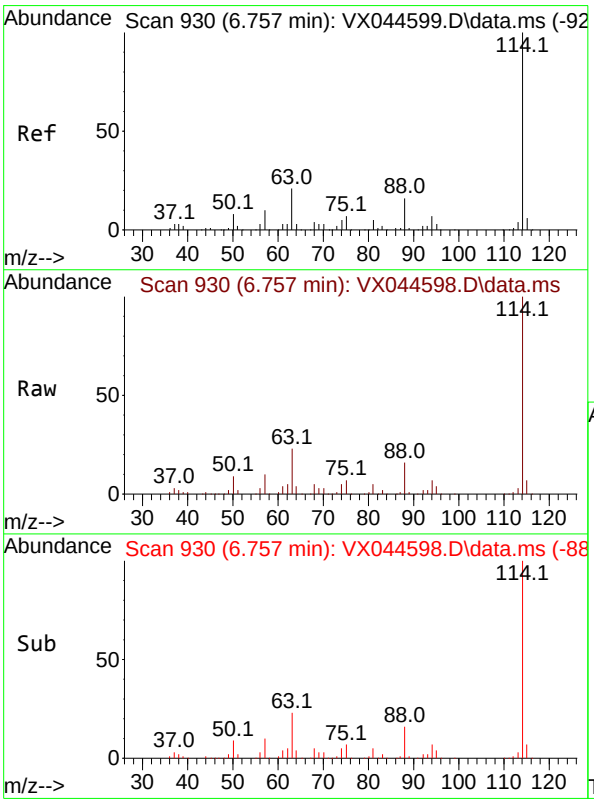
#33
1,2-Dichloroethane-d4
Concen: 21.098 ug/l
RT: 5.952 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 65 Resp: 62203

Ion	Ratio	Lower	Upper
65	100		
67	49.7	0.0	99.0

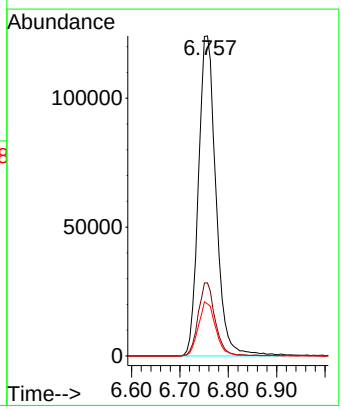


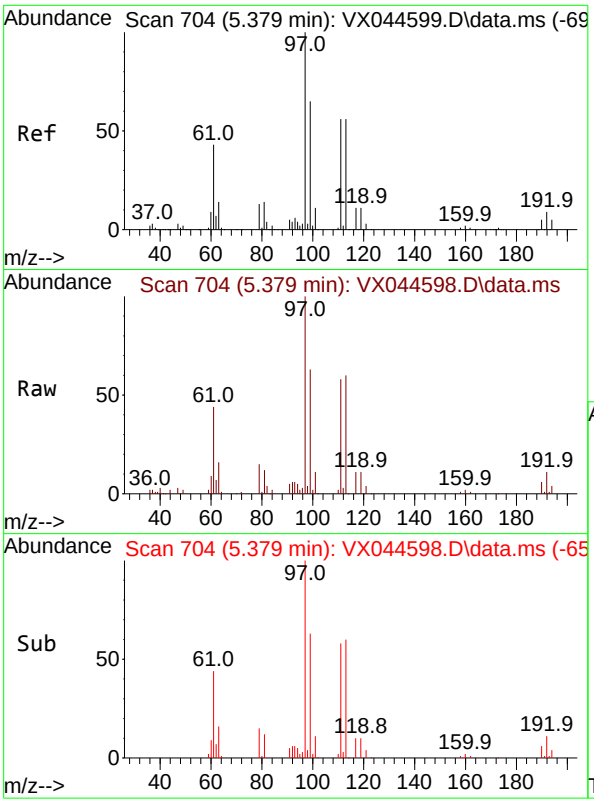


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion:114 Resp: 312202

Ion	Ratio	Lower	Upper
114	100		
63	22.9	0.0	42.6
88	16.3	0.0	32.6



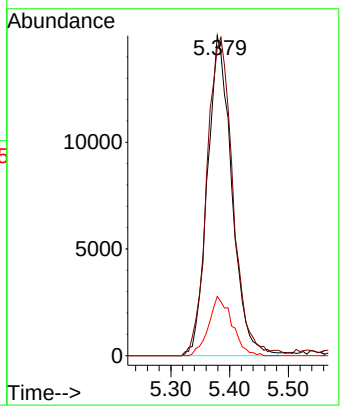


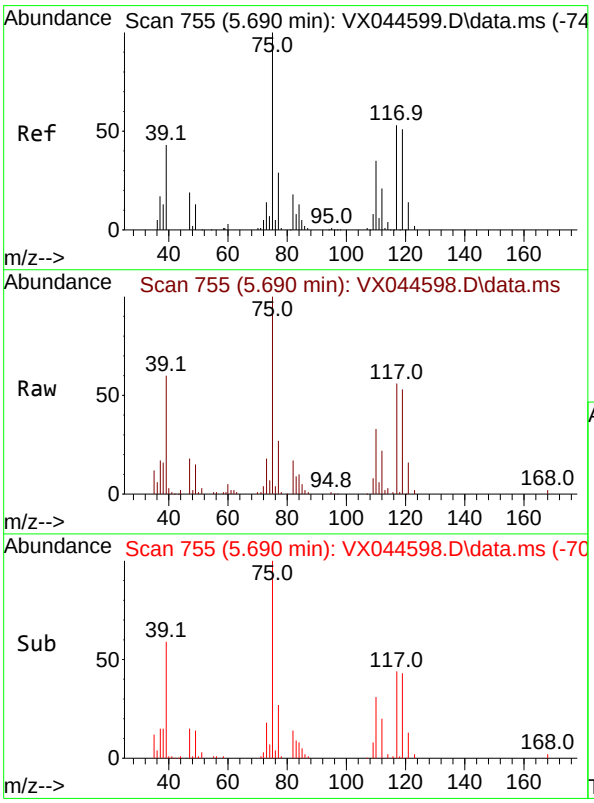
#35
Dibromofluoromethane
Concen: 20.232 ug/l
RT: 5.379 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:113 Resp: 43312

Ion	Ratio	Lower	Upper
113	100		
111	105.2	83.3	124.9
192	17.7	14.3	21.5

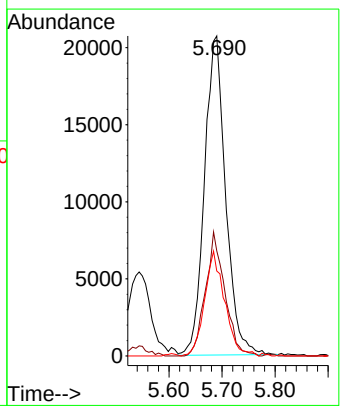


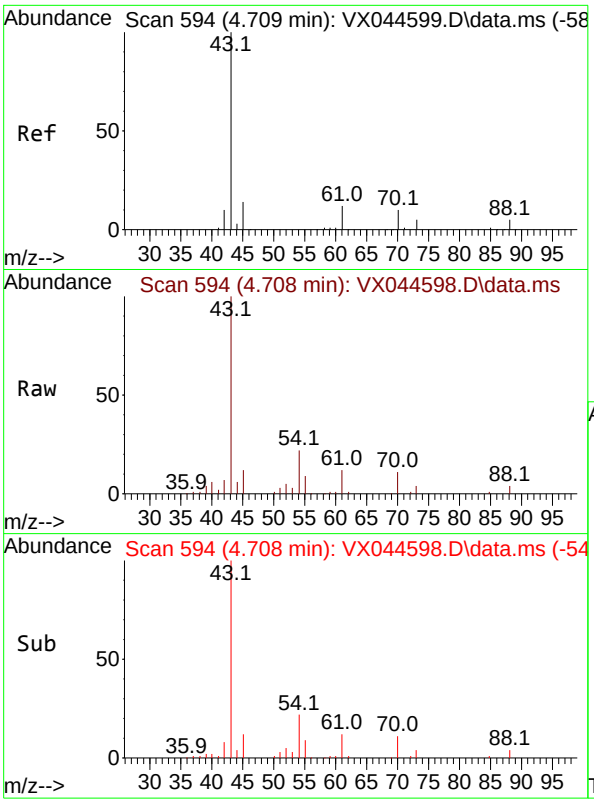


#36
1,1-Dichloropropene
Concen: 20.780 ug/l
RT: 5.690 min Scan# 755
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 75 Resp: 57525

Ion	Ratio	Lower	Upper
75	100		
110	35.5	17.3	51.9
77	31.1	24.7	37.1



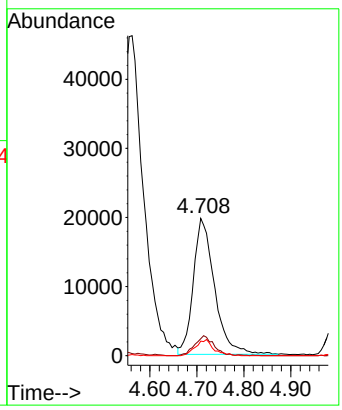


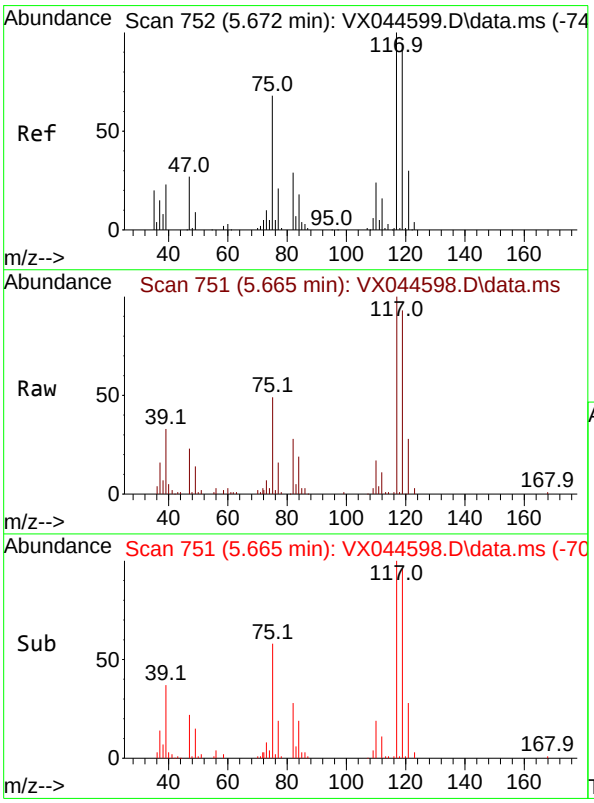
#37
Ethyl Acetate
Concen: 21.845 ug/l
RT: 4.708 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 61814

Ion	Ratio	Lower	Upper
43	100		
61	13.1	9.9	14.9
70	10.1	8.0	12.0

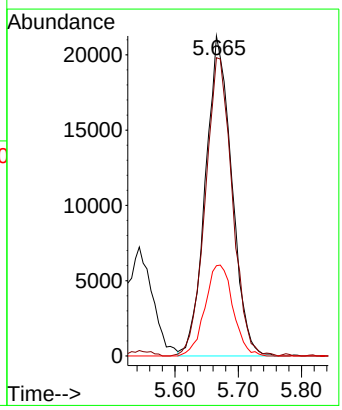


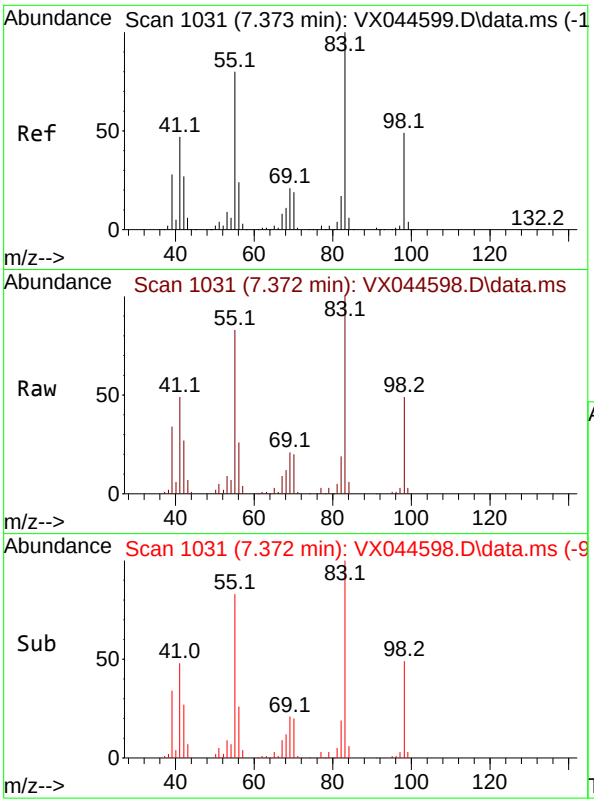


#38
Carbon Tetrachloride
Concen: 19.945 ug/l
RT: 5.665 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion:117 Resp: 61261

Ion	Ratio	Lower	Upper
117	100		
119	93.2	74.5	111.7
121	28.2	24.1	36.1



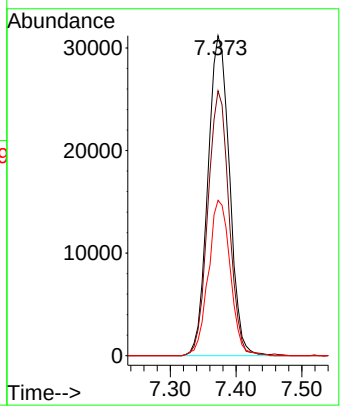


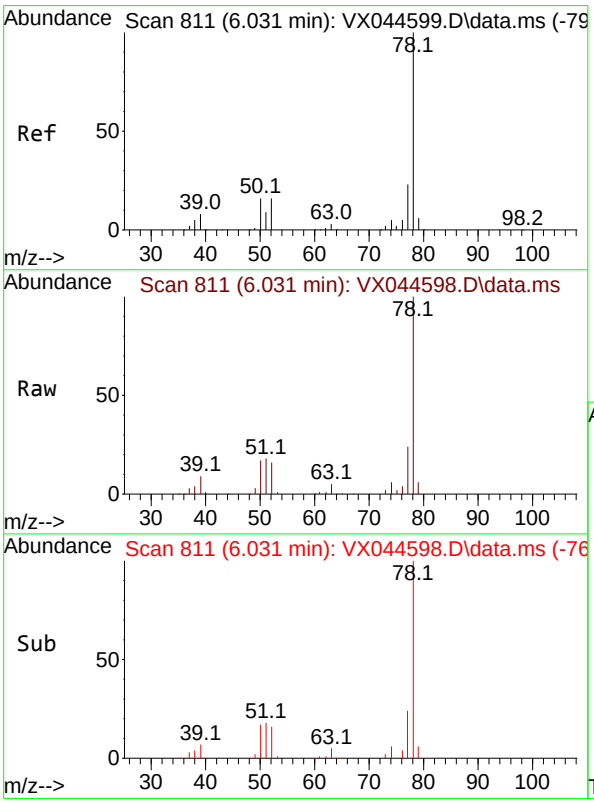
#39
Methylcyclohexane
Concen: 20.220 ug/l
RT: 7.372 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 83 Resp: 71421

Ion	Ratio	Lower	Upper
83	100		
55	82.7	64.1	96.1
98	48.6	38.9	58.3

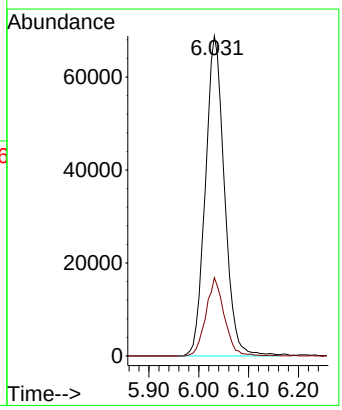


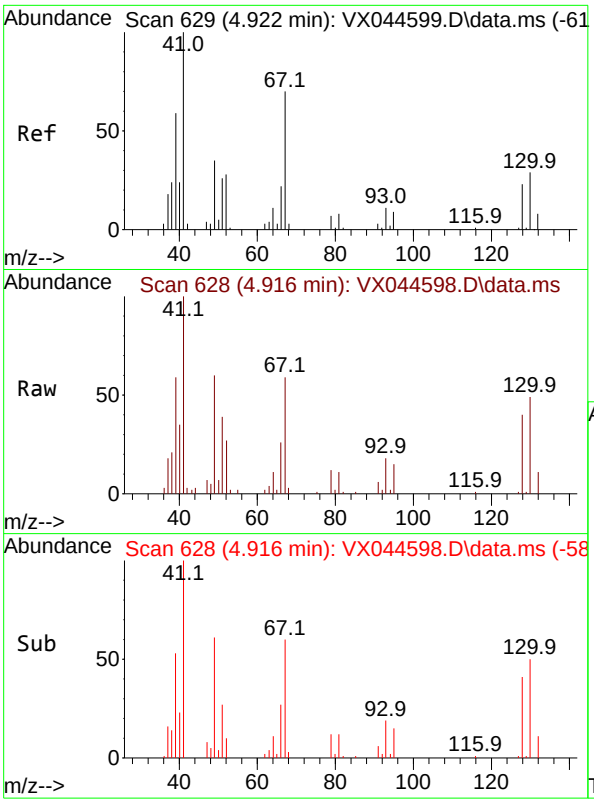


#40
Benzene
Concen: 20.965 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 78 Resp: 182735

Ion	Ratio	Lower	Upper
78	100		
77	24.5	18.8	28.2



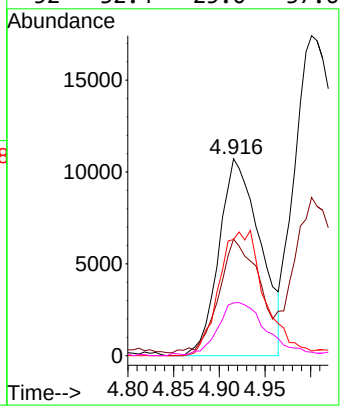


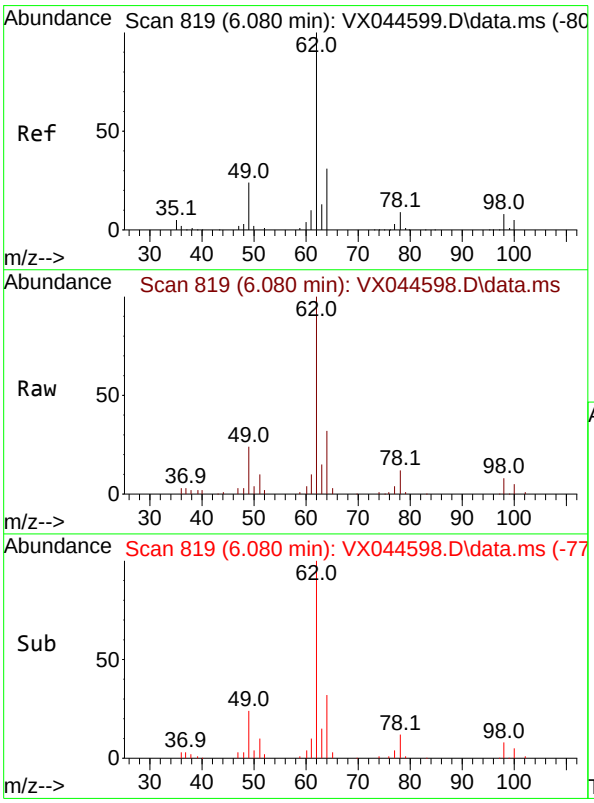
#41
Methacrylonitrile
Concen: 22.068 ug/l
RT: 4.916 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 41 Resp: 33545

Ion	Ratio	Lower	Upper
41	100		
39	55.8	47.0	70.4
67	71.1	57.4	86.2
52	32.4	25.0	37.6

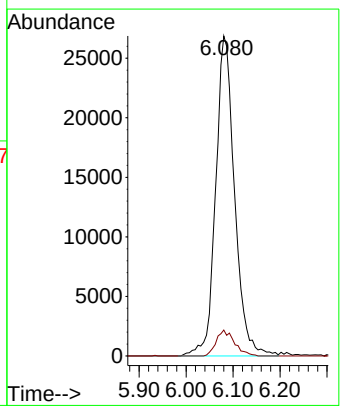


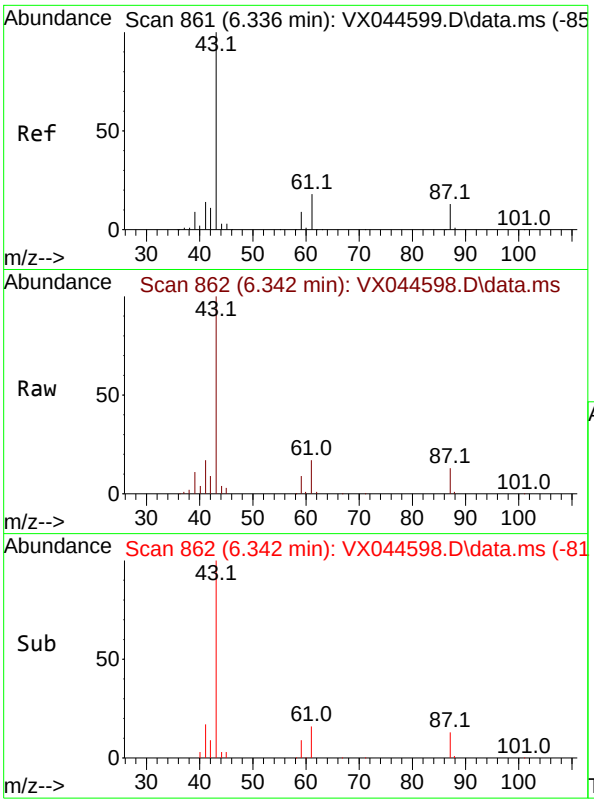


#42
1,2-Dichloroethane
Concen: 22.109 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 62 Resp: 75362

Ion	Ratio	Lower	Upper
62	100		
98	7.8	0.0	15.8



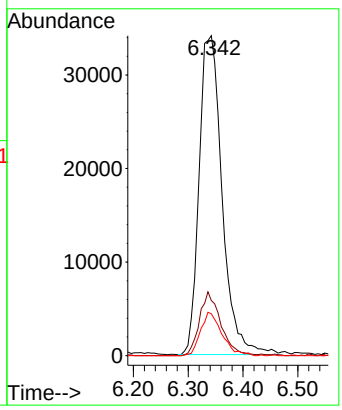


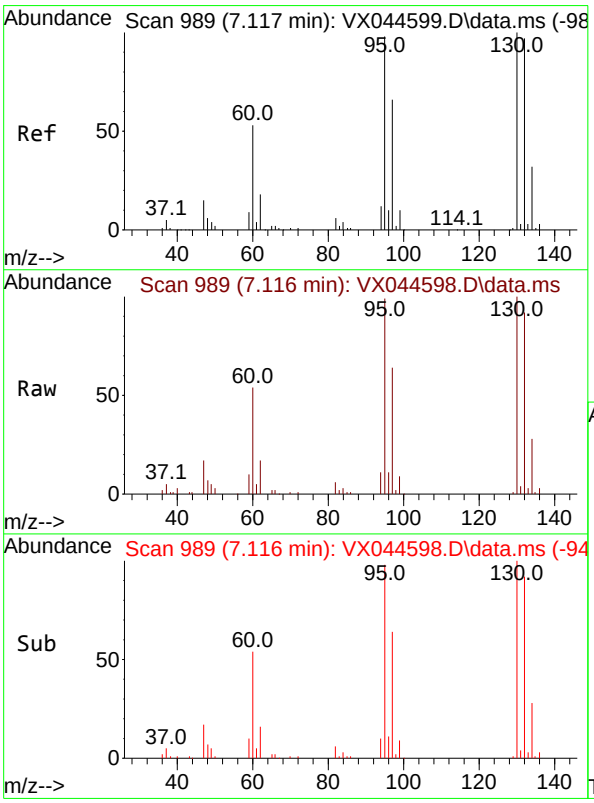
#43
Isopropyl Acetate
Concen: 21.325 ug/l
RT: 6.342 min Scan# 8
Delta R.T. 0.006 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 99627

Ion	Ratio	Lower	Upper
43	100		
61	18.4	14.5	21.7
87	12.6	10.1	15.1

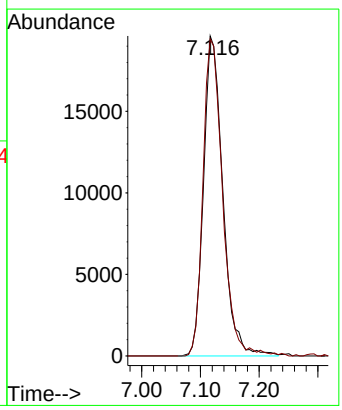


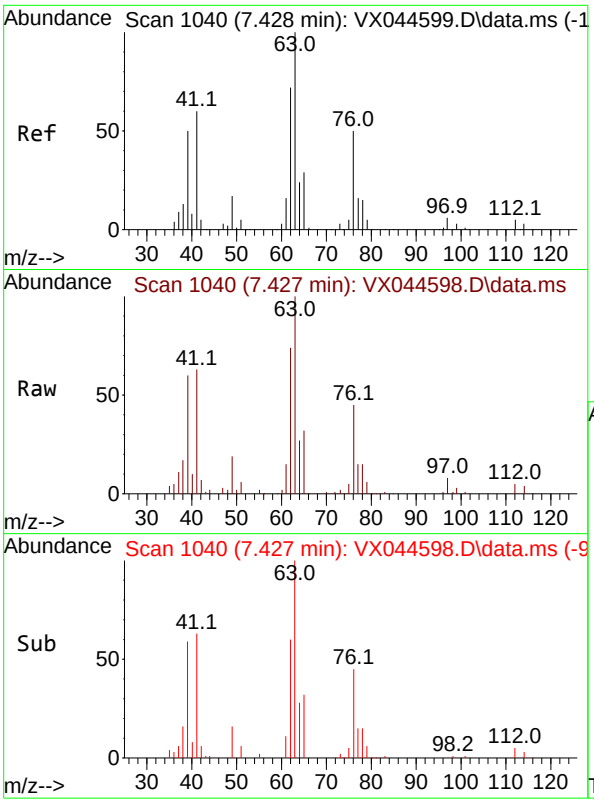


#44
Trichloroethene
Concen: 20.086 ug/l
RT: 7.116 min Scan# 989
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion:130 Resp: 44753

Ion	Ratio	Lower	Upper
130	100		
95	99.1	0.0	195.6



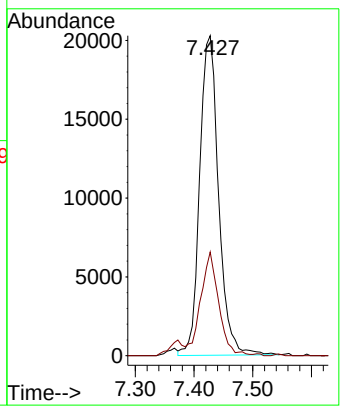


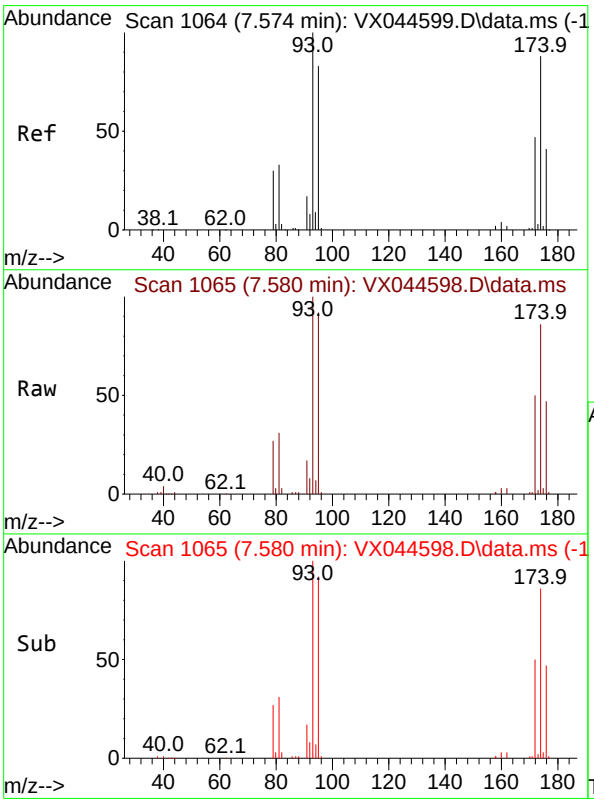
#45
1,2-Dichloropropane
Concen: 21.352 ug/l
RT: 7.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 63 Resp: 45374

Ion	Ratio	Lower	Upper
63	100		
65	31.9	23.0	34.4

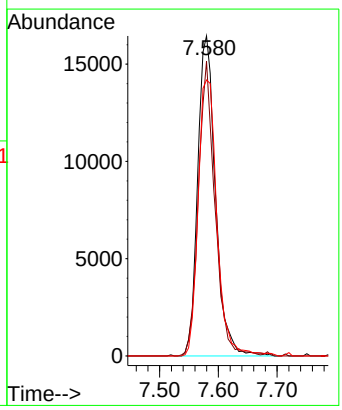


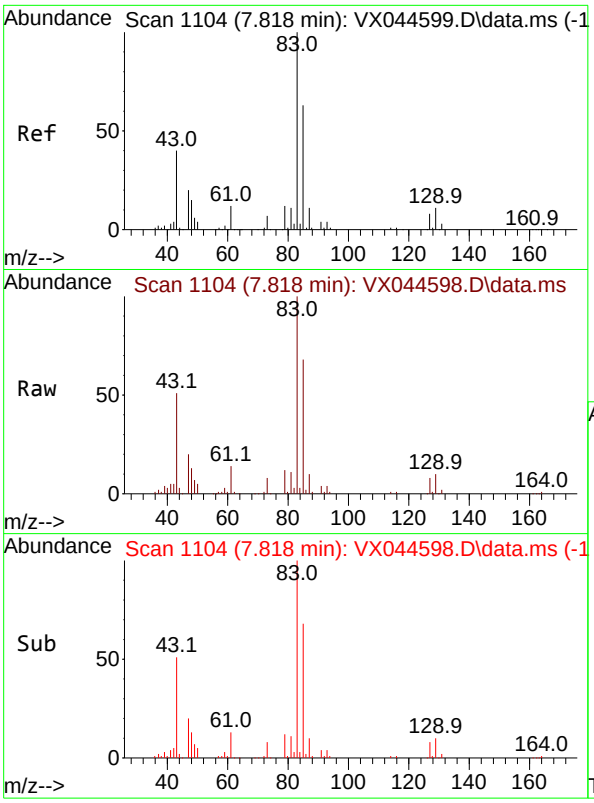


#46
Dibromomethane
Concen: 20.895 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. 0.006 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 93 Resp: 34533

Ion	Ratio	Lower	Upper
93	100		
95	86.0	65.8	98.6
174	91.5	73.4	110.0



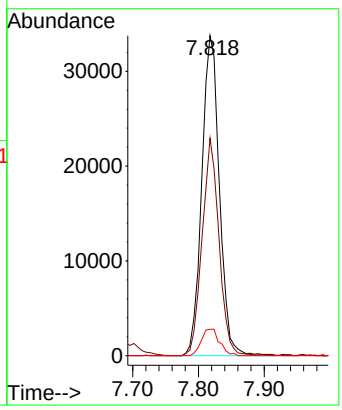


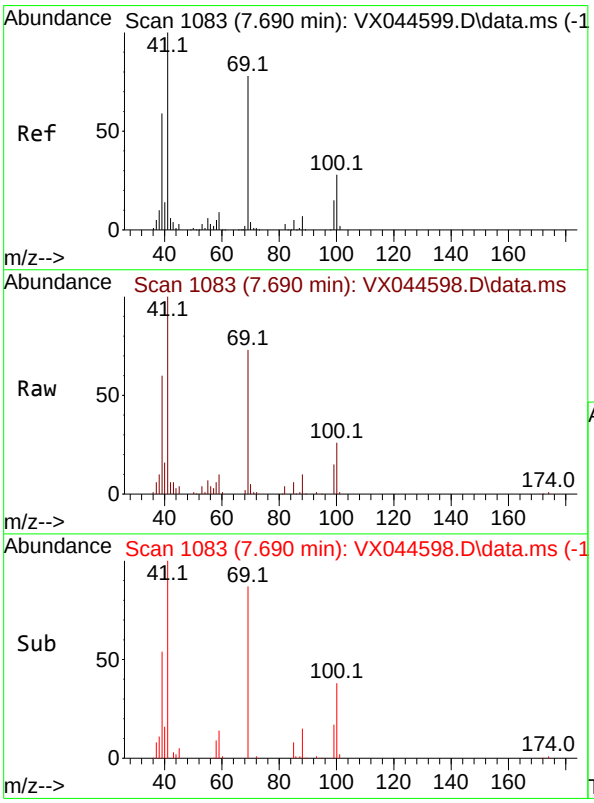
#47
Bromodichloromethane
Concen: 20.903 ug/l
RT: 7.818 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 83 Resp: 62867

Ion	Ratio	Lower	Upper
83	100		
85	68.0	50.4	75.6
127	8.3	6.2	9.4

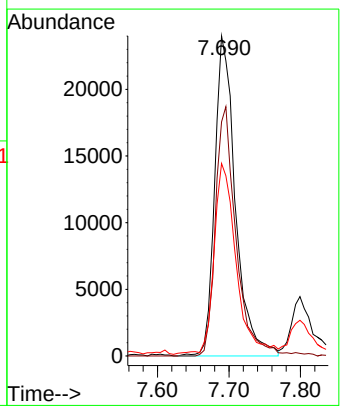


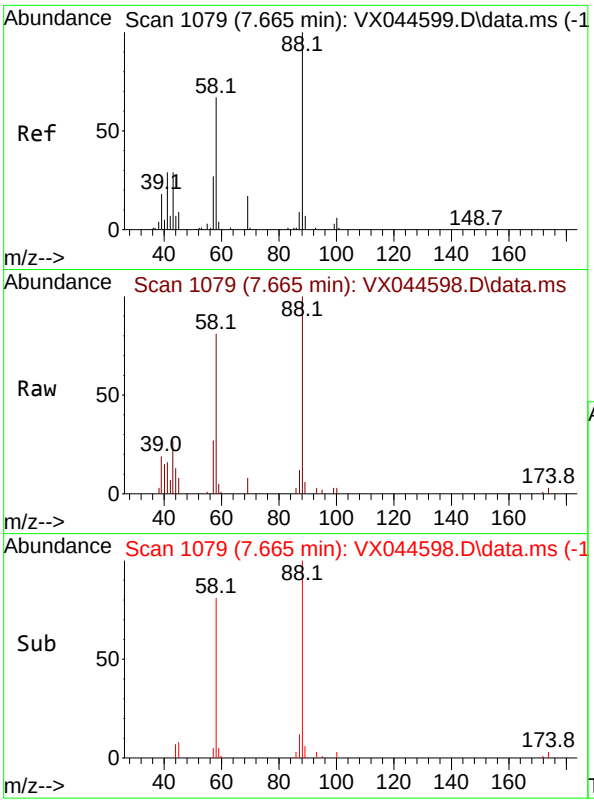


#48
Methyl methacrylate
Concen: 21.700 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 41 Resp: 48354

Ion	Ratio	Lower	Upper
41	100		
69	77.1	62.9	94.3
39	63.4	48.9	73.3



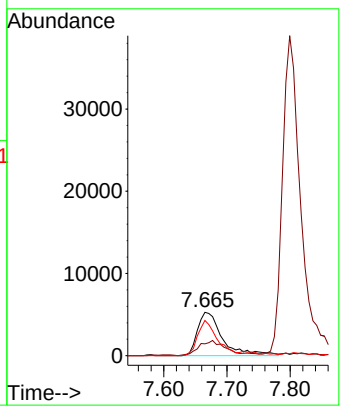


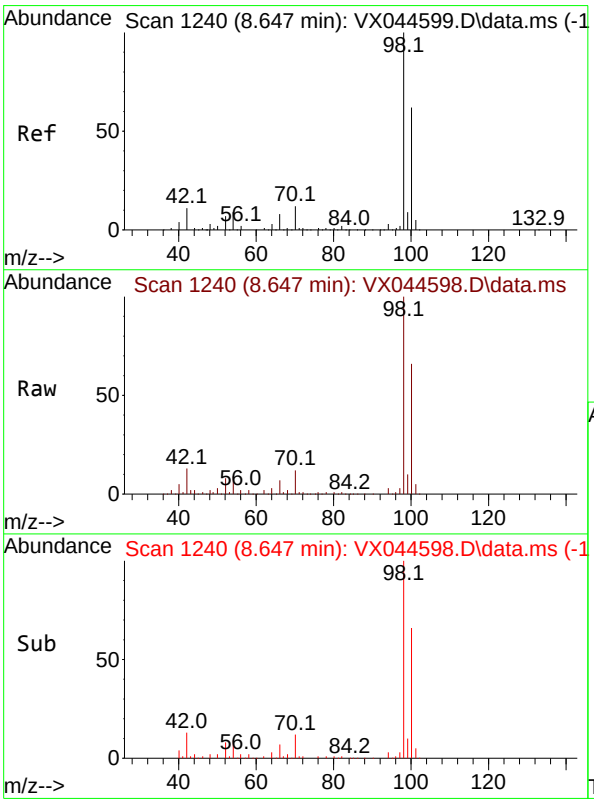
#49
1,4-Dioxane
Concen: 444.533 ug/l
RT: 7.665 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 88 Resp: 14556

Ion	Ratio	Lower	Upper
88	100		
43	38.7	29.5	44.3
58	63.7	56.3	84.5

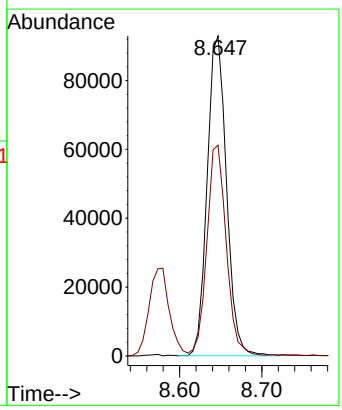


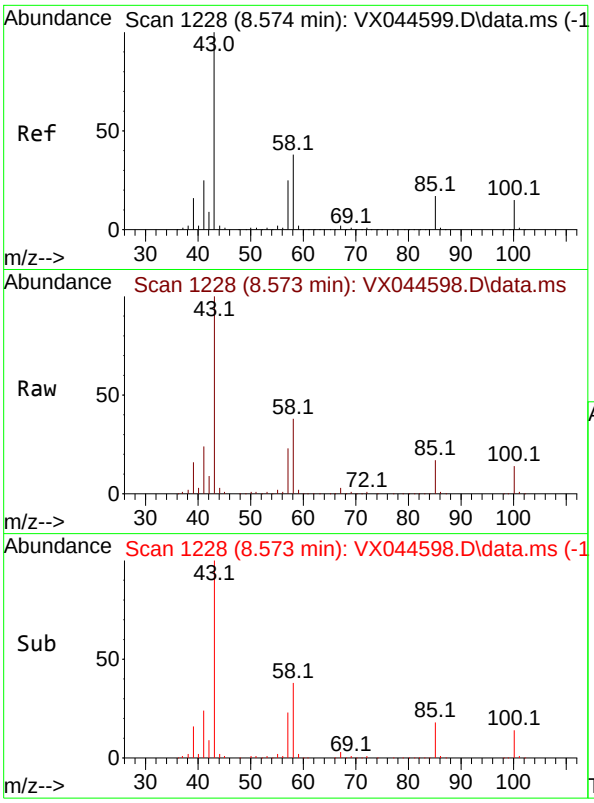


#50
Toluene-d8
Concen: 20.722 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 98 Resp: 151532

Ion	Ratio	Lower	Upper
98	100		
100	66.0	52.5	78.7



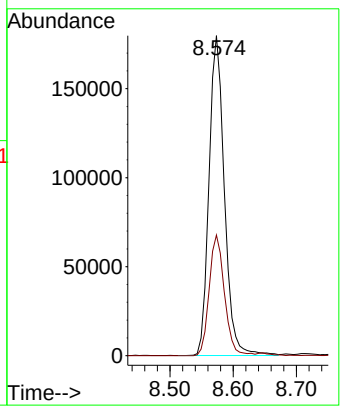


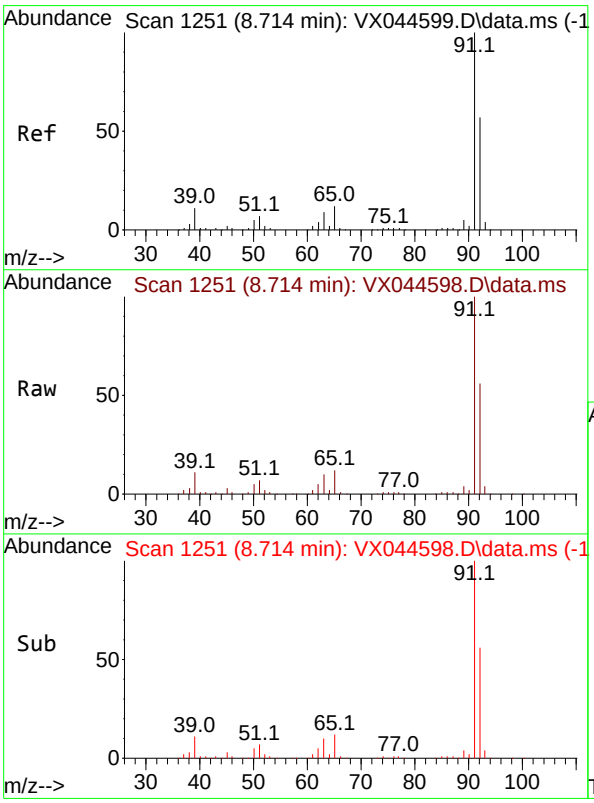
#51
4-Methyl-2-Pentanone
Concen: 111.120 ug/l
RT: 8.573 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 303467

Ion	Ratio	Lower	Upper
43	100		
58	37.5	30.0	45.0

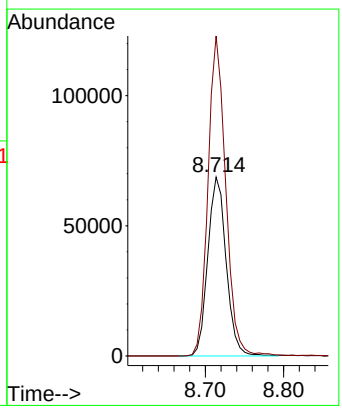


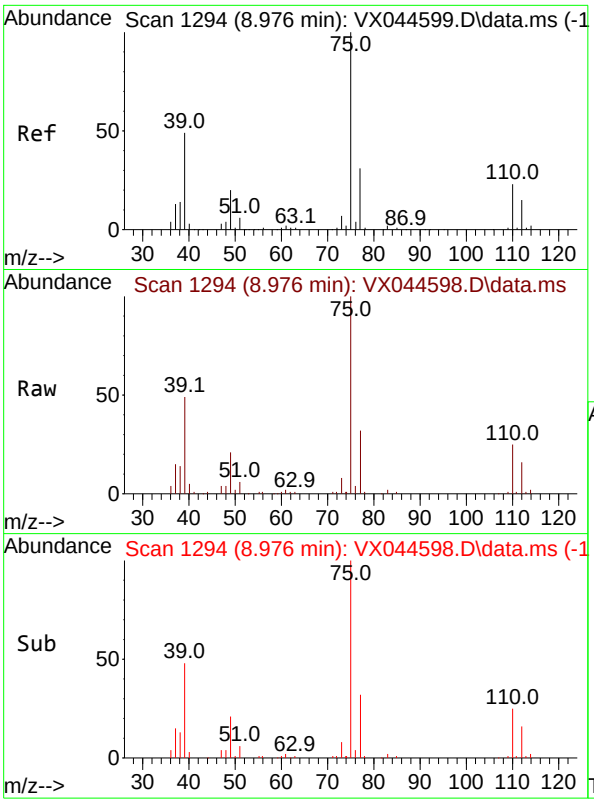


#52
Toluene
Concen: 21.272 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 92 Resp: 111872

Ion	Ratio	Lower	Upper
92	100		
91	172.6	140.6	210.8



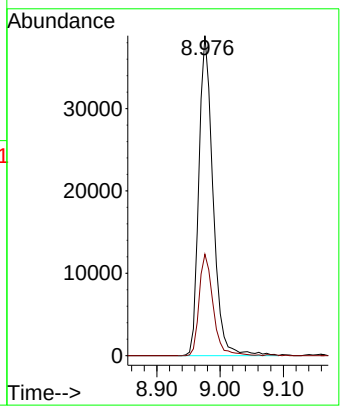


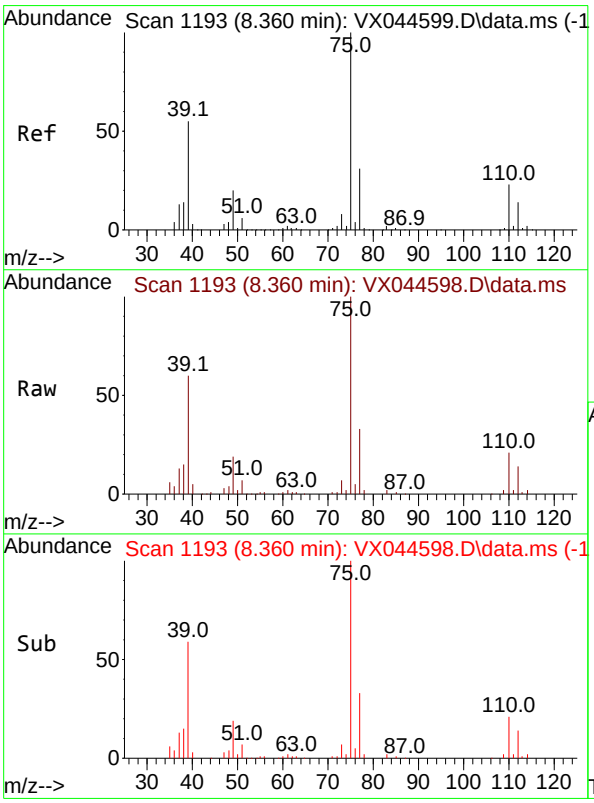
#53
t-1,3-Dichloropropene
Concen: 21.133 ug/l
RT: 8.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 75 Resp: 60752

Ion	Ratio	Lower	Upper
75	100		
77	31.7	24.8	37.2

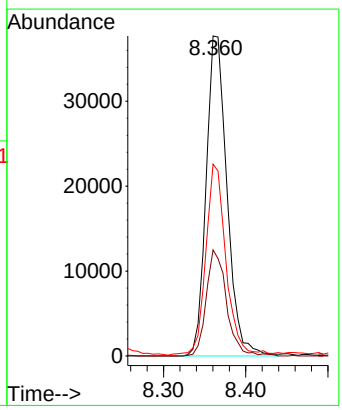


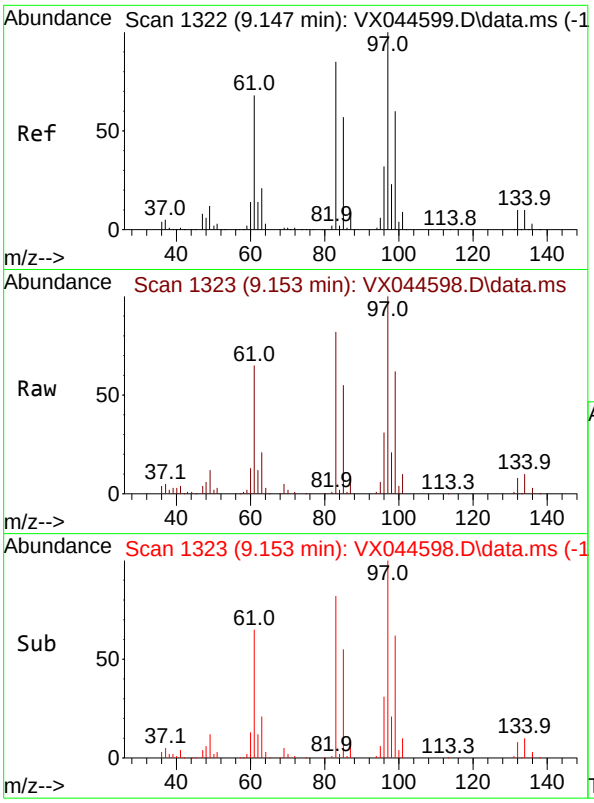


#54
cis-1,3-Dichloropropene
Concen: 20.586 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 75 Resp: 66510

Ion	Ratio	Lower	Upper
75	100		
77	33.2	24.5	36.7
39	59.3	44.3	66.5



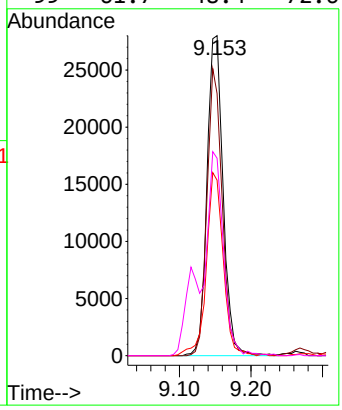


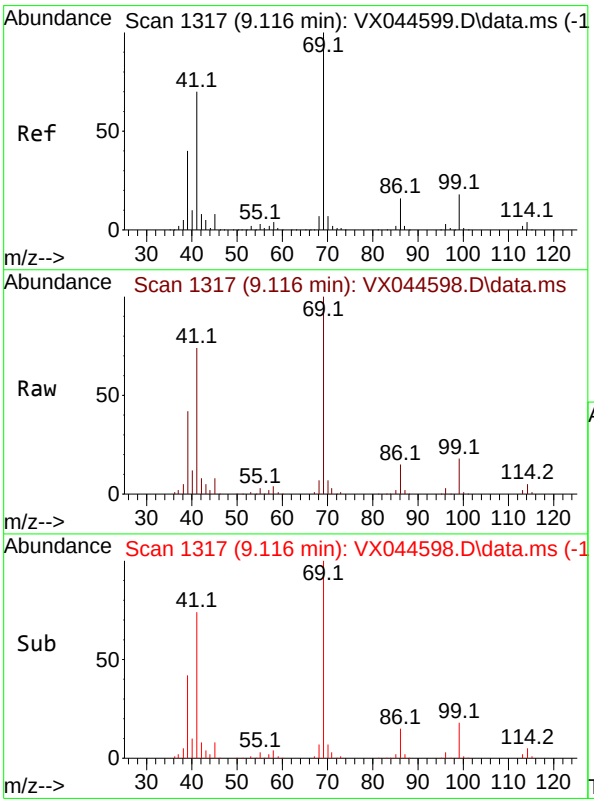
#55
1,1,2-Trichloroethane
Concen: 21.158 ug/l
RT: 9.153 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 97 Resp: 43622

Ion	Ratio	Lower	Upper
97	100		
83	81.9	68.0	102.0
85	54.9	45.4	68.0
99	61.7	48.4	72.6

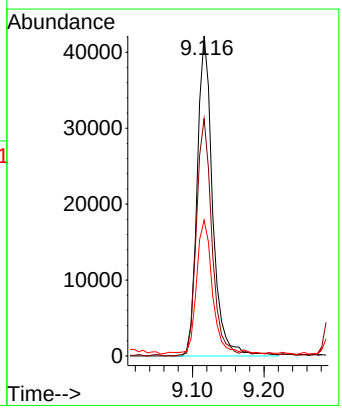


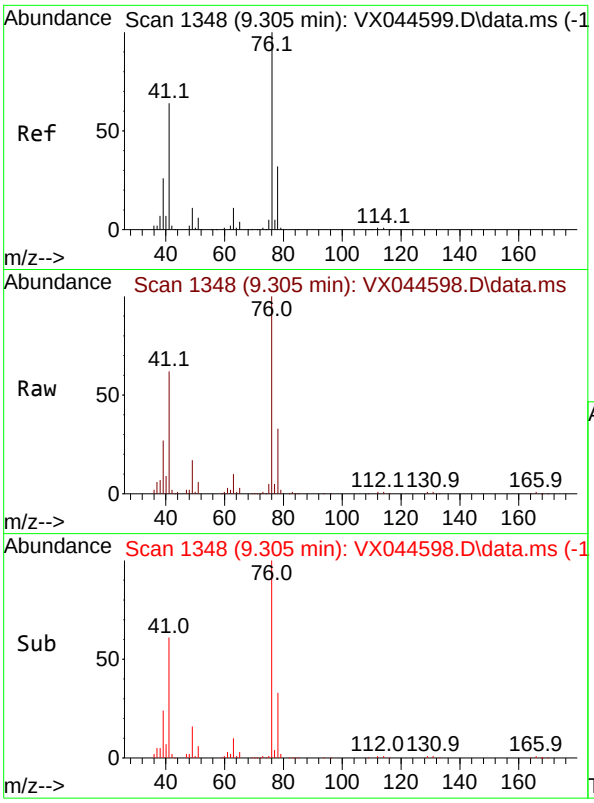


#56
Ethyl methacrylate
Concen: 21.068 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 69 Resp: 63170

Ion	Ratio	Lower	Upper
69	100		
41	73.6	57.7	86.5
39	43.5	33.7	50.5



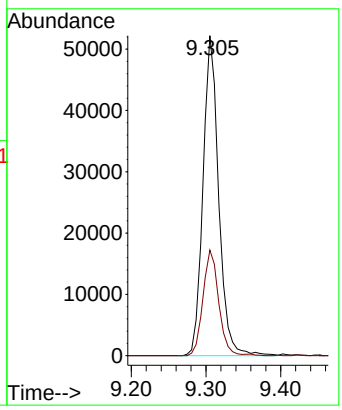


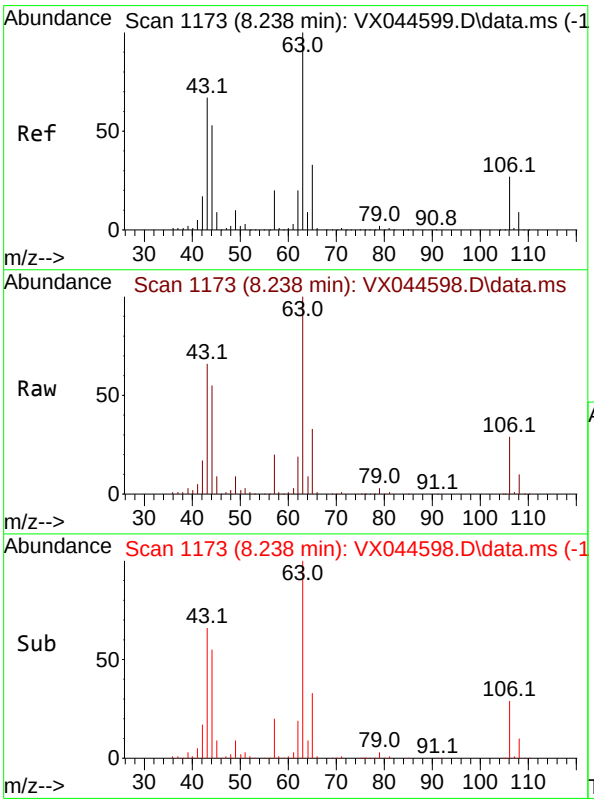
#57
1,3-Dichloropropane
Concen: 21.969 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 76 Resp: 76059

Ion	Ratio	Lower	Upper
76	100		
78	33.2	25.8	38.8

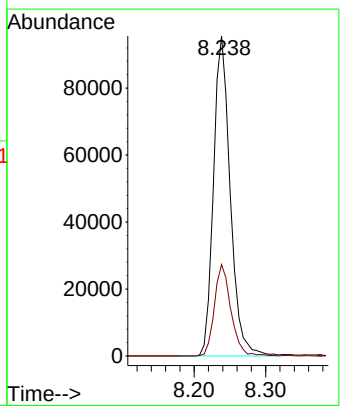


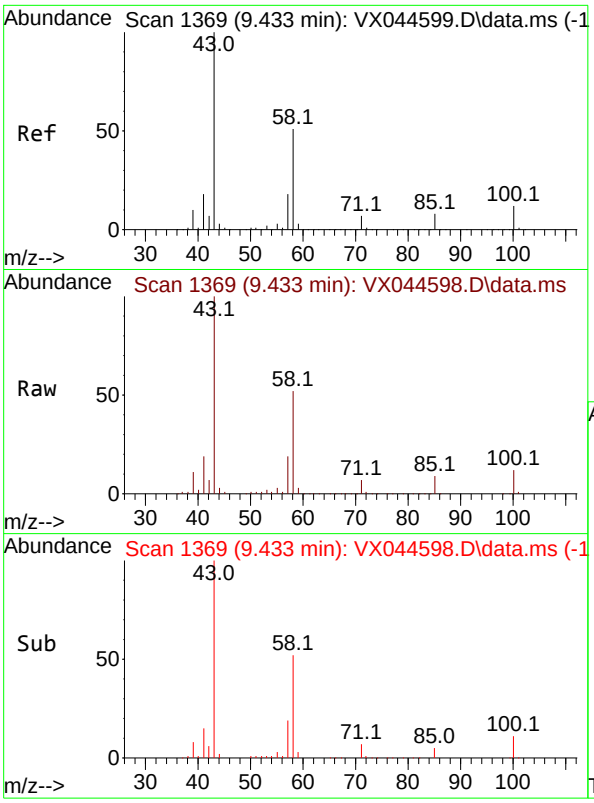


#58
2-Chloroethyl Vinyl ether
Concen: 104.333 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 63 Resp: 155083

Ion	Ratio	Lower	Upper
63	100		
106	28.2	22.4	33.6



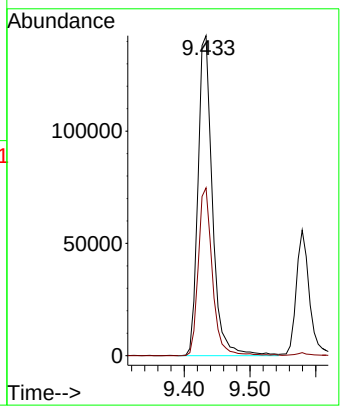


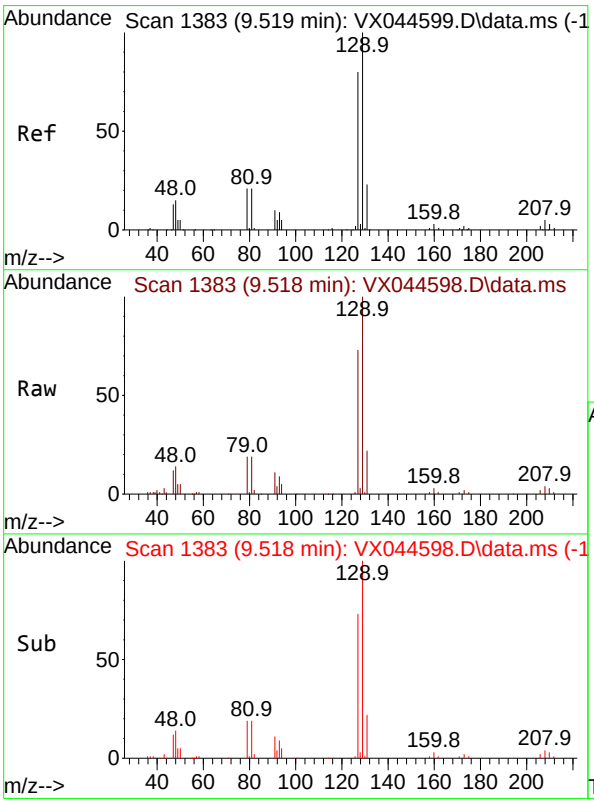
#59
2-Hexanone
Concen: 112.353 ug/l
RT: 9.433 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 216998

Ion	Ratio	Lower	Upper
43	100		
58	51.4	25.4	76.4

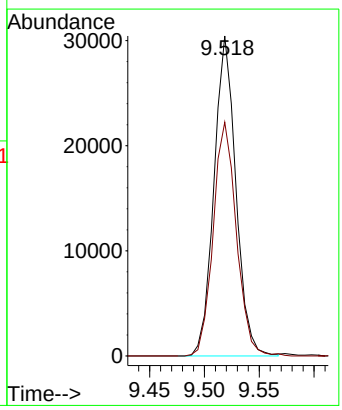


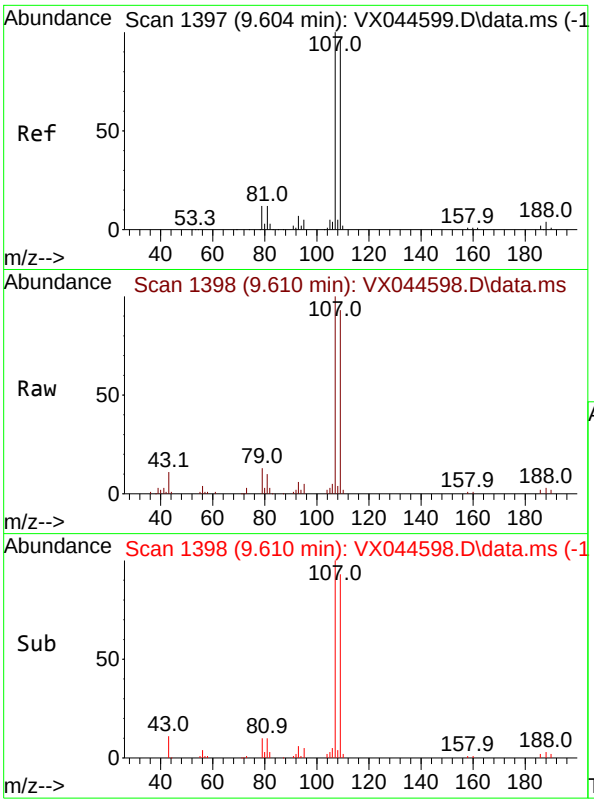


#60
Dibromochloromethane
Concen: 20.568 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion:129 Resp: 42282

Ion	Ratio	Lower	Upper
129	100		
127	77.3	38.9	116.7



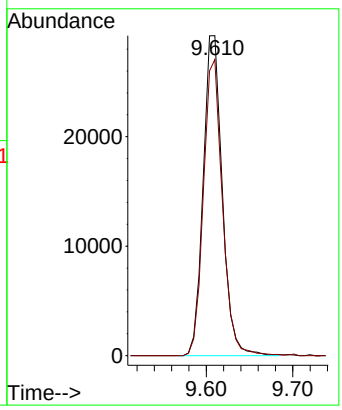


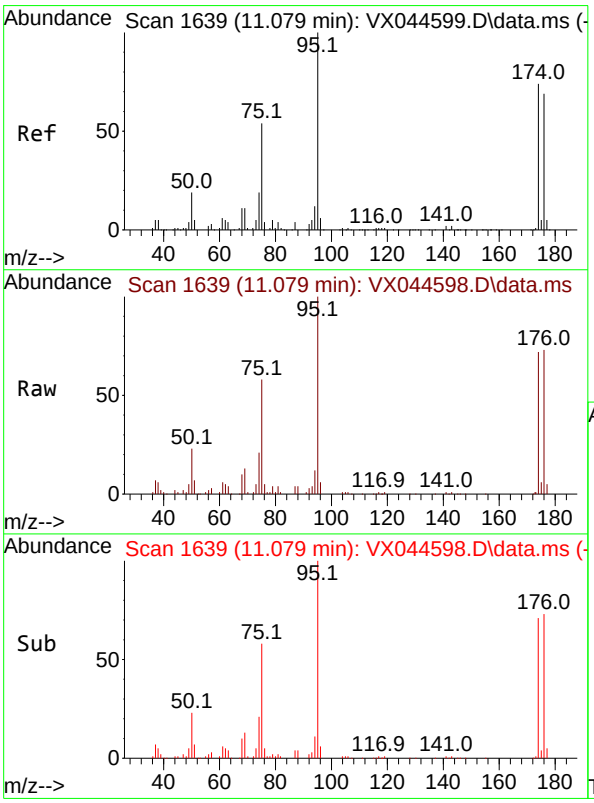
#61
1,2-Dibromoethane
Concen: 21.501 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:107 Resp: 44770

Ion	Ratio	Lower	Upper
107	100		
109	92.2	76.7	115.1

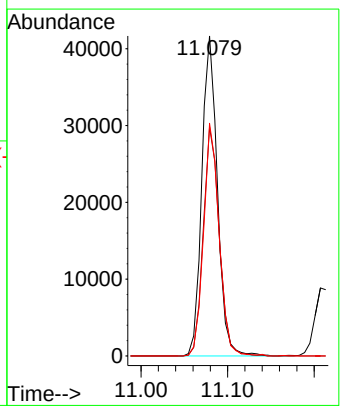


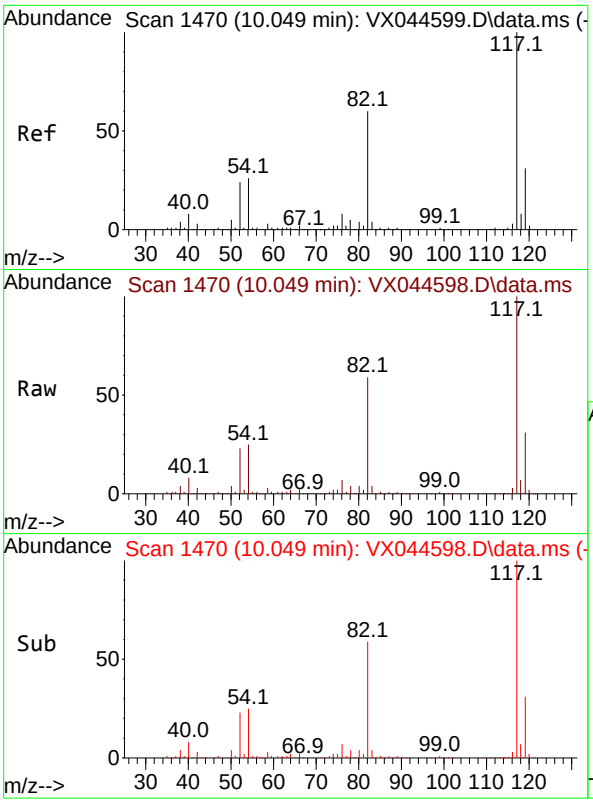


#62
4-Bromofluorobenzene
Concen: 20.131 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 95 Resp: 51959

Ion	Ratio	Lower	Upper
95	100		
174	73.4	0.0	148.8
176	72.6	0.0	139.8



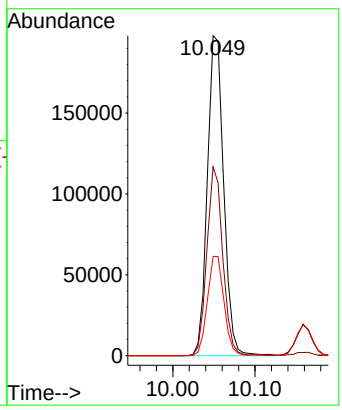


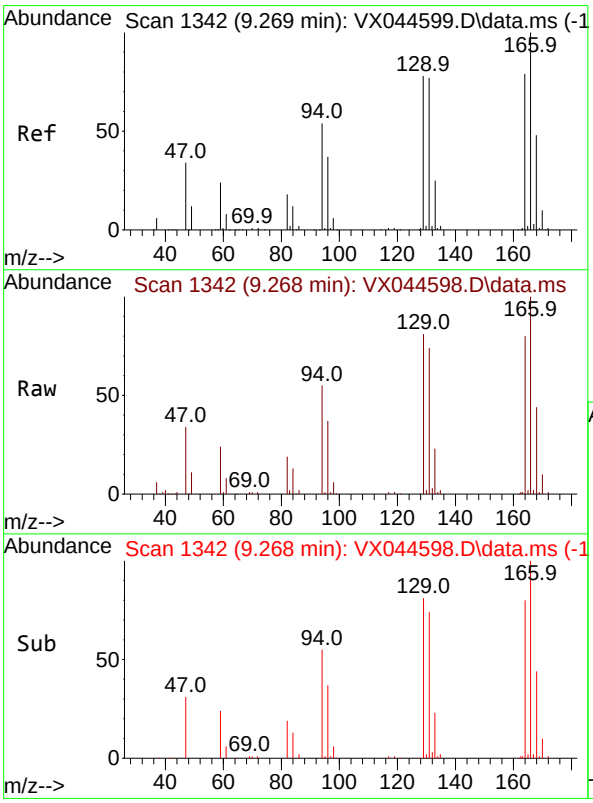
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:117 Resp: 273147

Ion	Ratio	Lower	Upper
117	100		
82	59.0	47.8	71.6
119	31.0	25.0	37.6

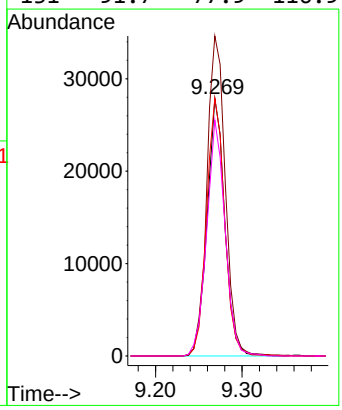


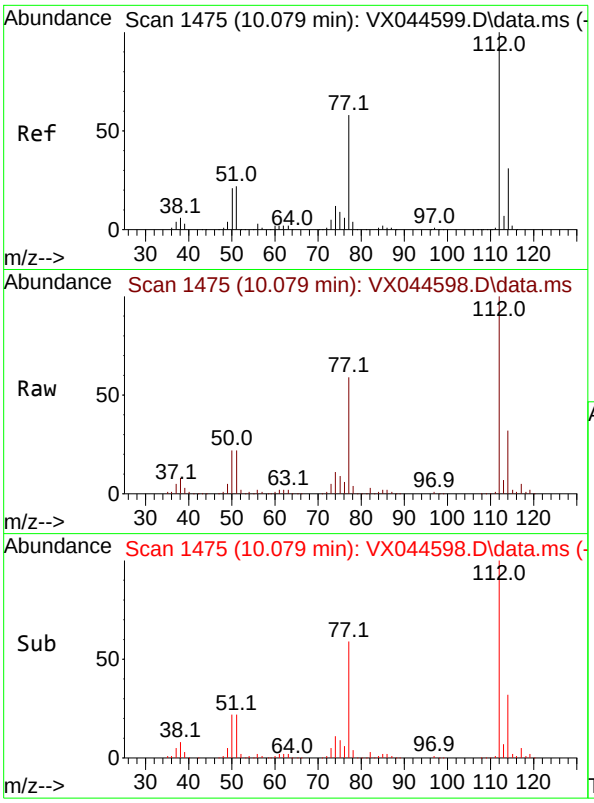


#64
Tetrachloroethene
Concen: 20.489 ug/l
RT: 9.268 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion:164 Resp: 39569

Ion	Ratio	Lower	Upper
164	100		
166	124.4	101.5	152.3
129	100.2	78.9	118.3
131	91.7	77.9	116.9



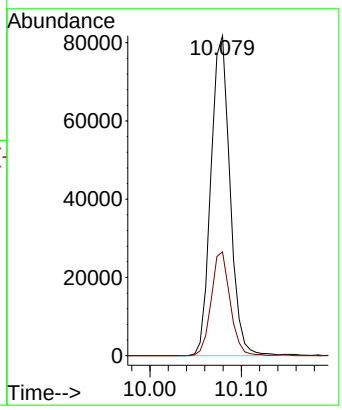


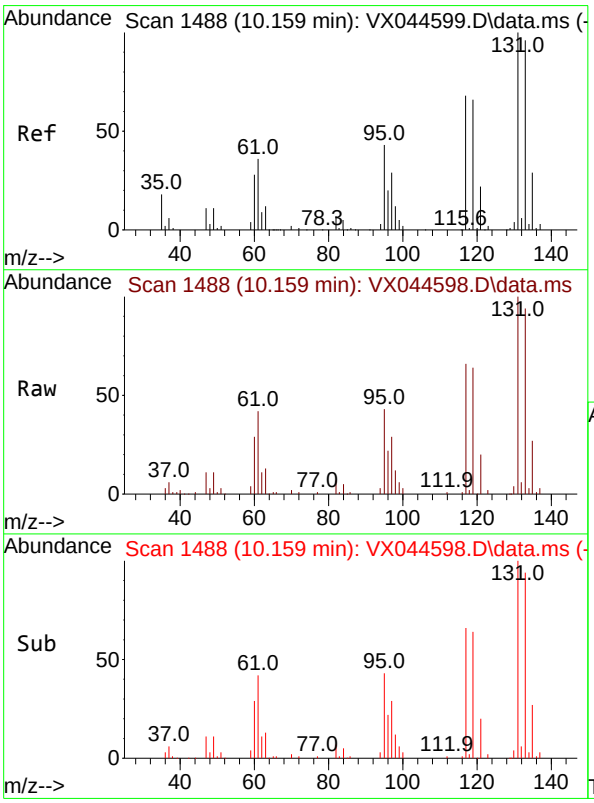
#65
Chlorobenzene
Concen: 20.467 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:112 Resp: 118653

Ion	Ratio	Lower	Upper
112	100		
114	32.4	25.0	37.4

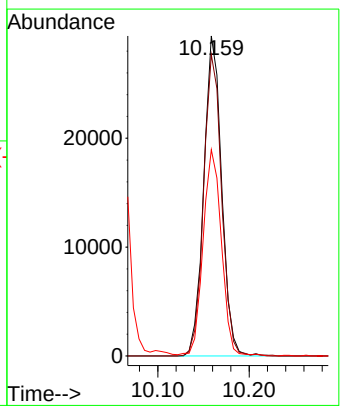


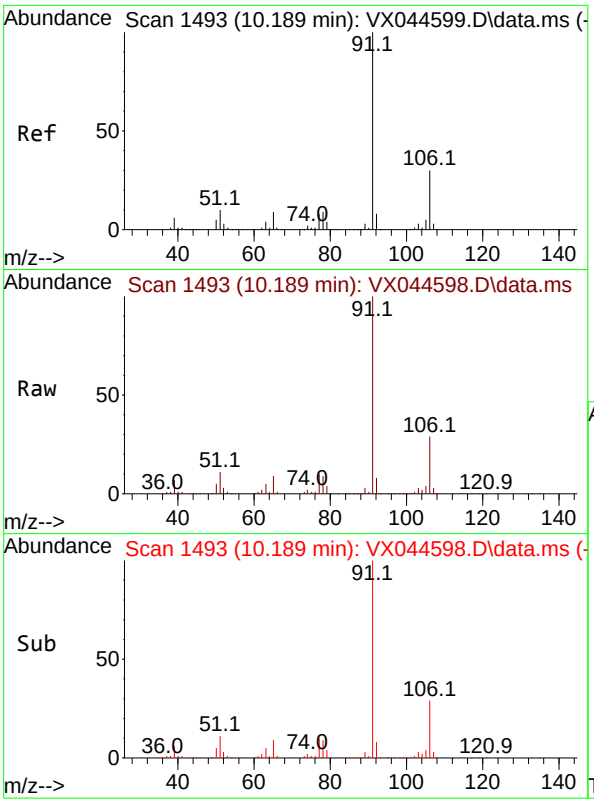


#66
1,1,1,2-Tetrachloroethane
Concen: 20.752 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion:131 Resp: 39956

Ion	Ratio	Lower	Upper
131	100		
133	94.9	48.0	144.0
119	65.9	32.8	98.4



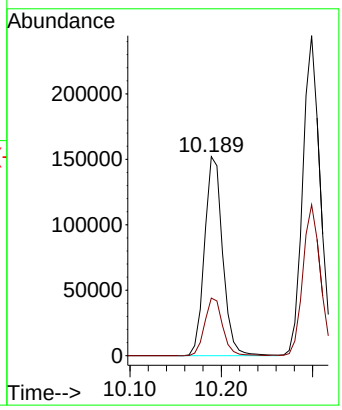


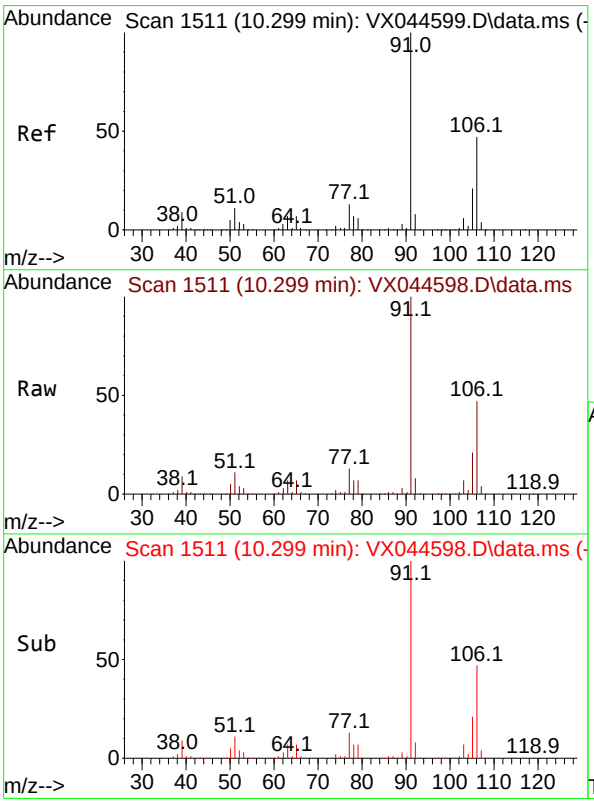
#67
Ethyl Benzene
Concen: 21.066 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 91 Resp: 209710

Ion	Ratio	Lower	Upper
91	100		
106	28.9	23.8	35.8

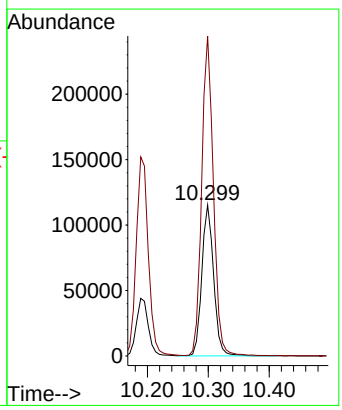


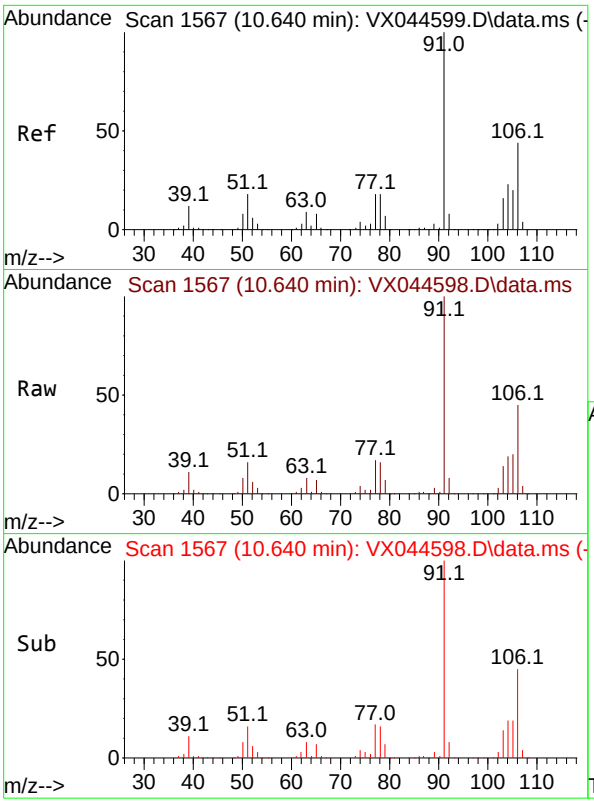


#68
m/p-Xylenes
Concen: 42.593 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion:106 Resp: 155810

Ion	Ratio	Lower	Upper
106	100		
91	209.5	170.4	255.6



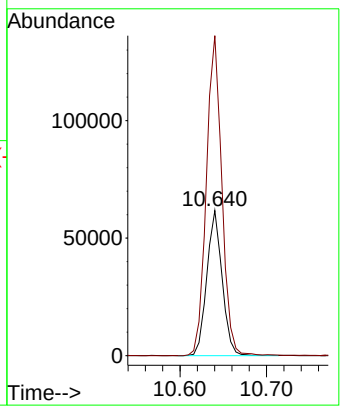


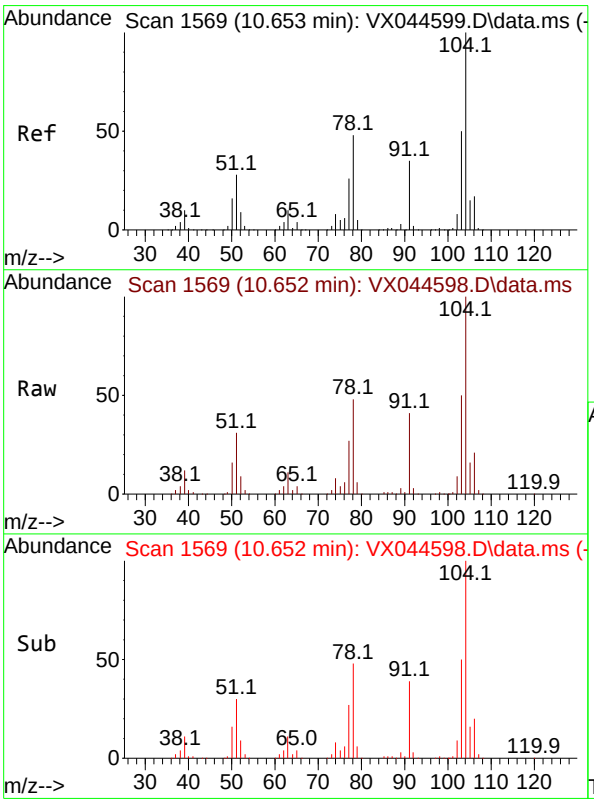
#69
o-Xylene
Concen: 20.601 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:106 Resp: 76065

Ion	Ratio	Lower	Upper
106	100		
91	223.2	112.3	336.8

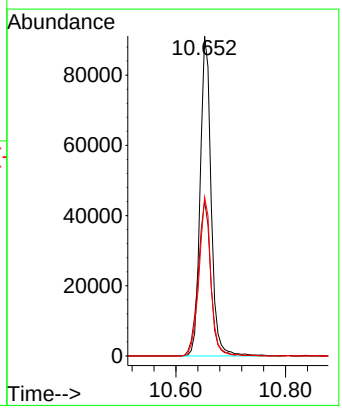


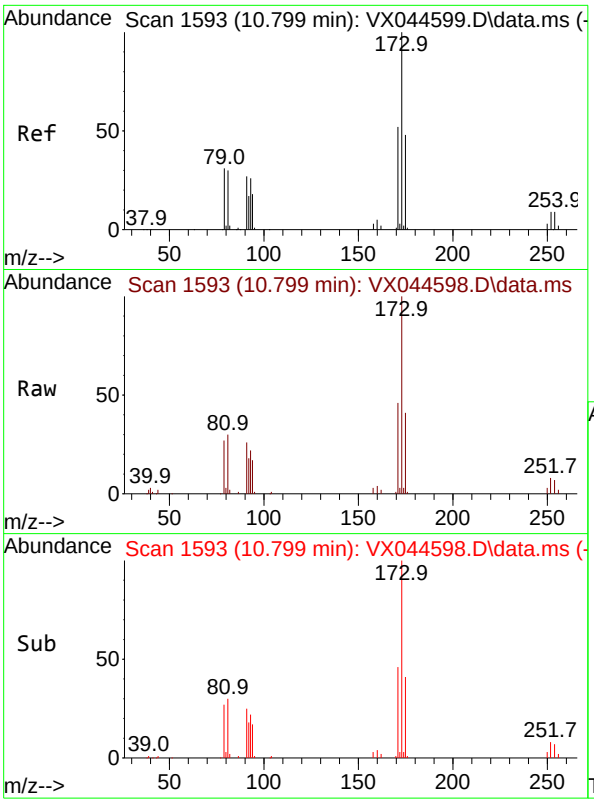


#70
Styrene
Concen: 21.385 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion:104 Resp: 126293

Ion	Ratio	Lower	Upper
104	100		
78	55.6	44.0	66.0
103	54.4	43.8	65.6



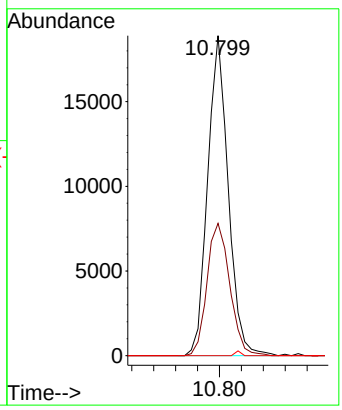


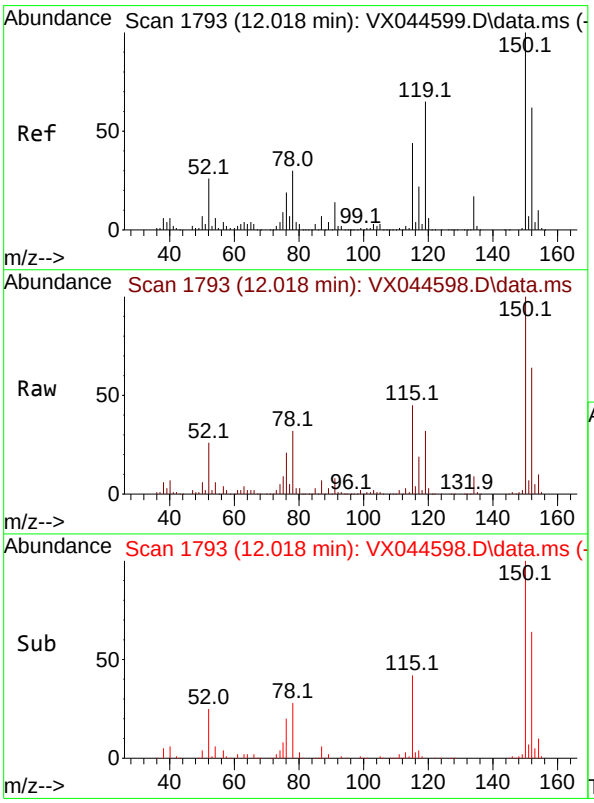
#71
Bromoform
Concen: 19.617 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:173 Resp: 24563

Ion	Ratio	Lower	Upper
173	100		
175	45.9	24.6	73.8
254	0.4	0.0	0.0#

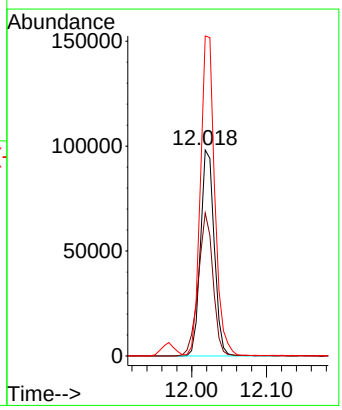


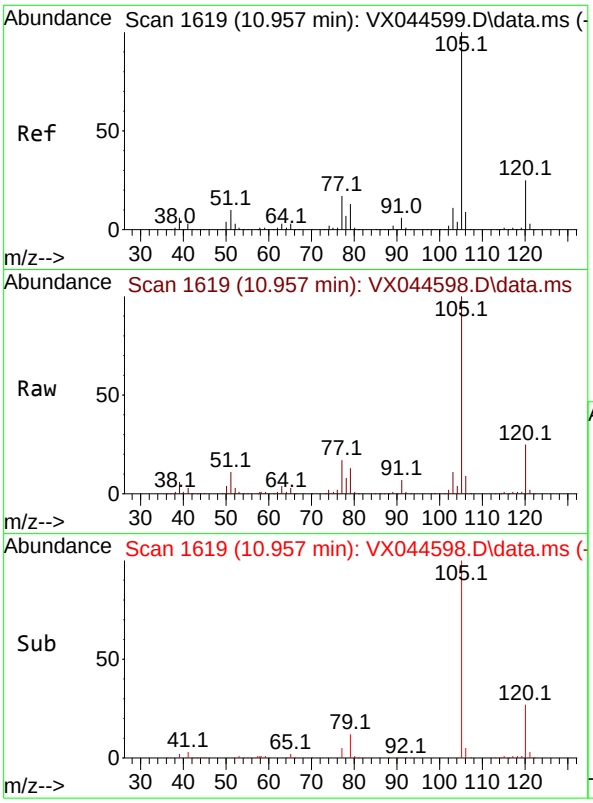


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion:152 Resp: 125618

Ion	Ratio	Lower	Upper
152	100		
115	74.1	44.4	133.1
150	161.8	0.0	355.0



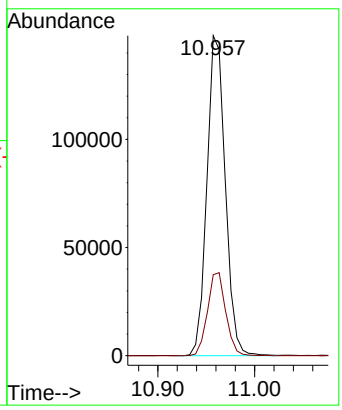


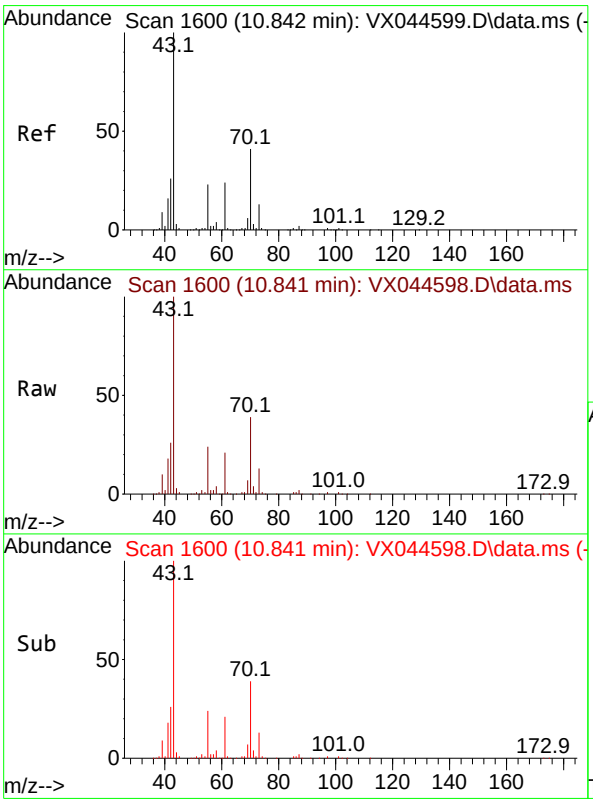
#73
Isopropylbenzene
Concen: 21.012 ug/l
RT: 10.957 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:105 Resp: 195554

Ion	Ratio	Lower	Upper
105	100		
120	25.8	13.0	38.9

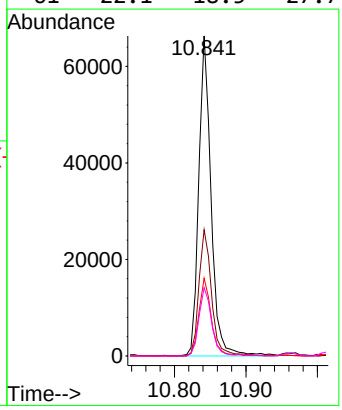


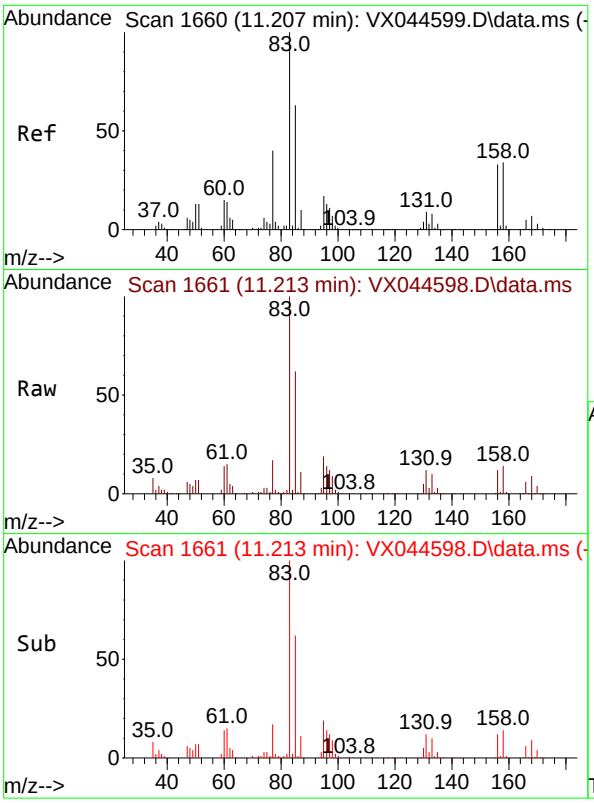


#74
N-amyl acetate
Concen: 21.023 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 43 Resp: 79390

Ion	Ratio	Lower	Upper
43	100		
70	40.5	32.9	49.3
55	24.7	19.0	28.6
61	22.1	18.5	27.7



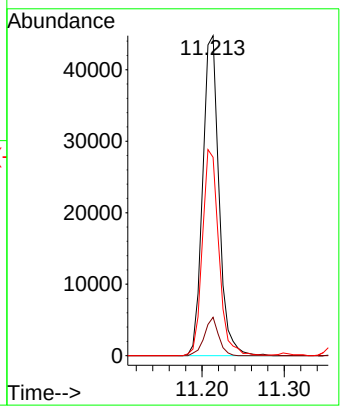


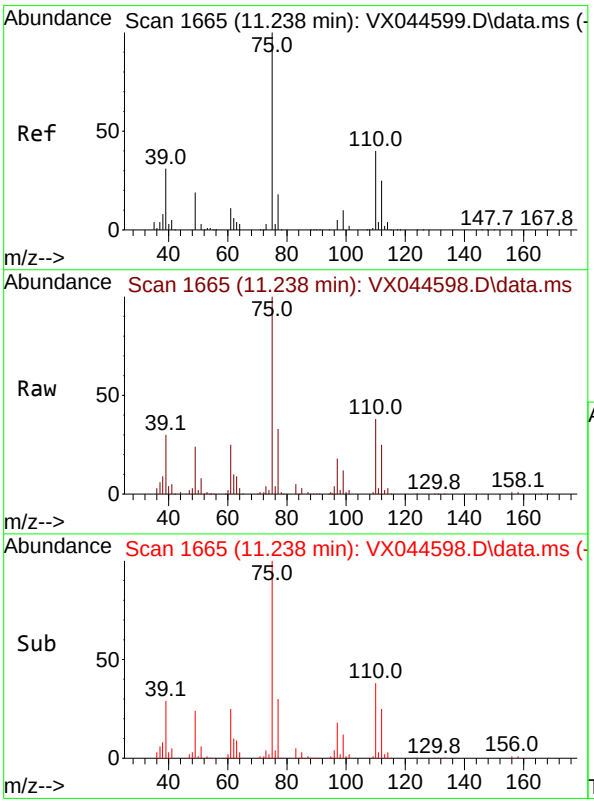
#75
1,1,2,2-Tetrachloroethane
Concen: 20.550 ug/l
RT: 11.213 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 83 Resp: 61645

Ion	Ratio	Lower	Upper
83	100		
131	10.5	5.0	15.0
85	65.0	31.9	95.5

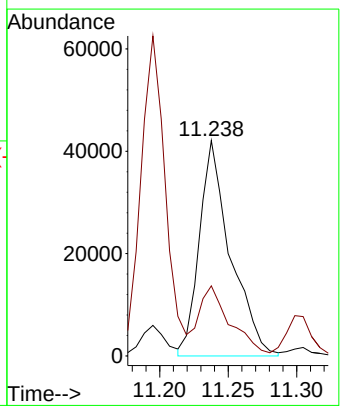


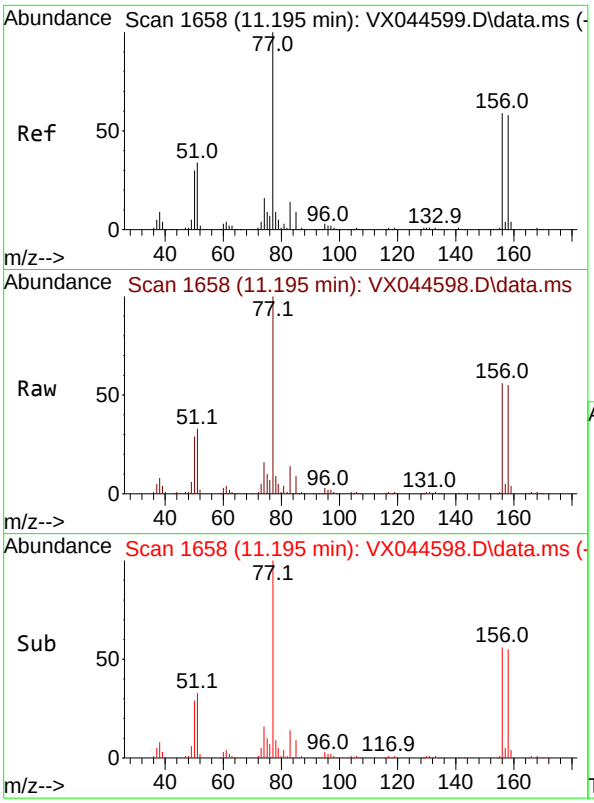


#76
1,2,3-Trichloropropane
Concen: 26.464 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 75 Resp: 66641

Ion	Ratio	Lower	Upper
75	100		
77	33.0	21.1	63.1



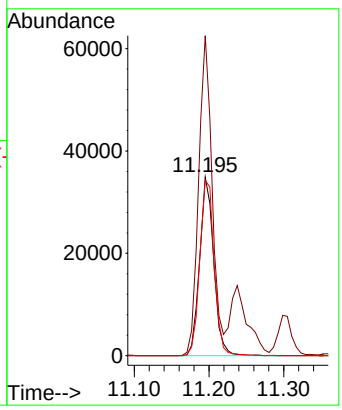


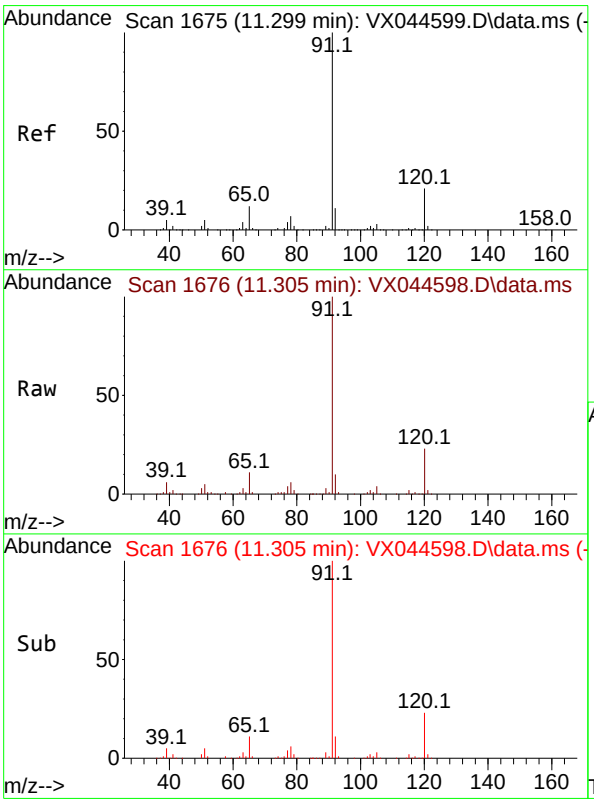
#77
Bromobenzene
Concen: 20.215 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:156 Resp: 45702

Ion	Ratio	Lower	Upper
156	100		
77	171.0	85.7	257.1
158	100.2	49.9	149.6

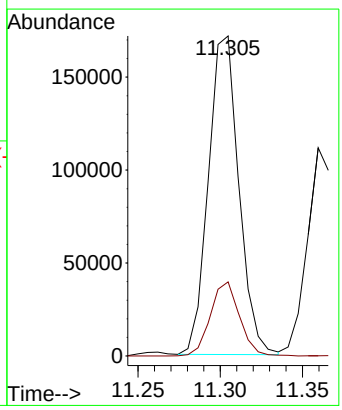


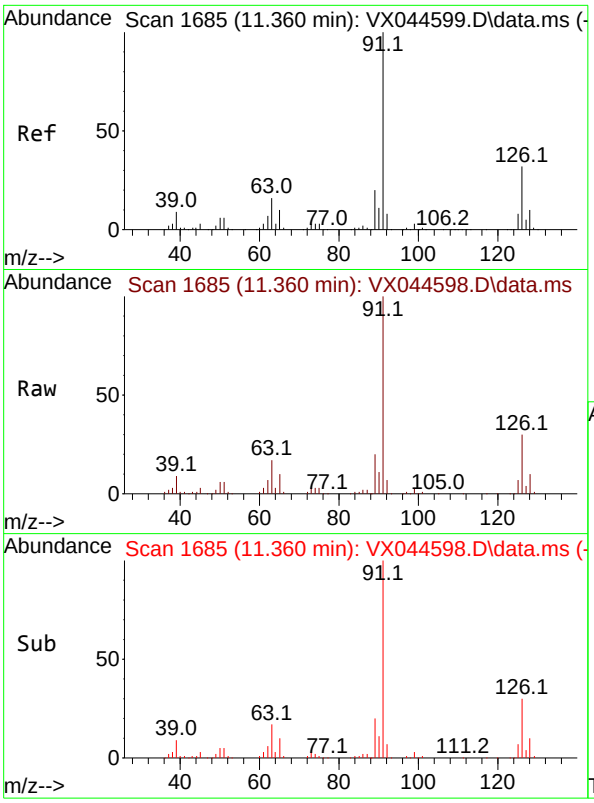


#78
n-propylbenzene
Concen: 21.078 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.006 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 91 Resp: 220954

Ion	Ratio	Lower	Upper
91	100		
120	22.3	11.2	33.5



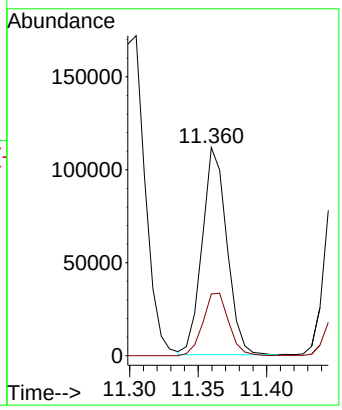


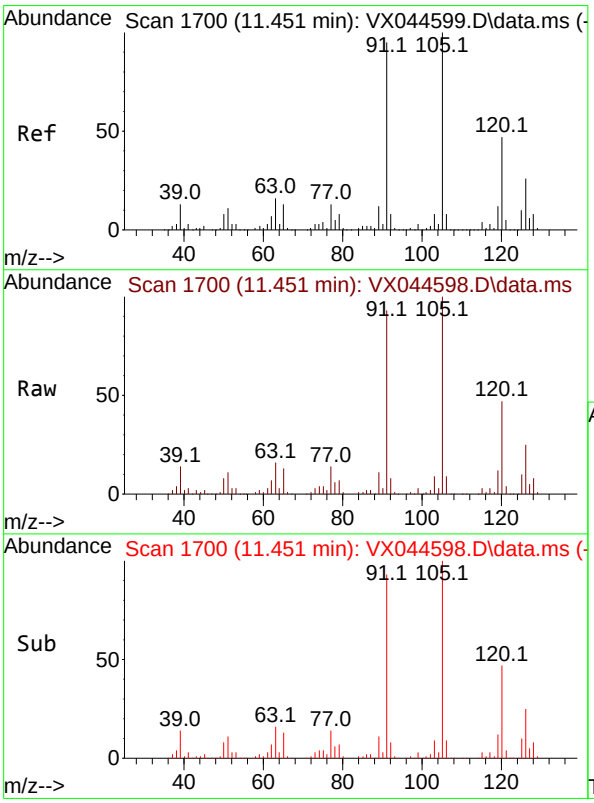
#79
2-Chlorotoluene
Concen: 20.541 ug/l
RT: 11.360 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 91 Resp: 139531

Ion	Ratio	Lower	Upper
91	100		
126	31.6	16.4	49.2

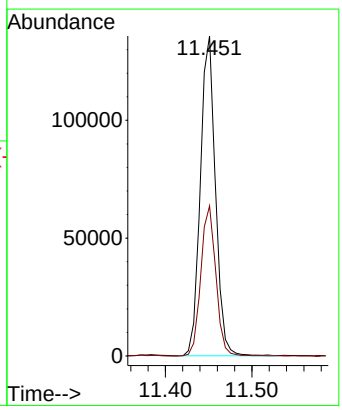


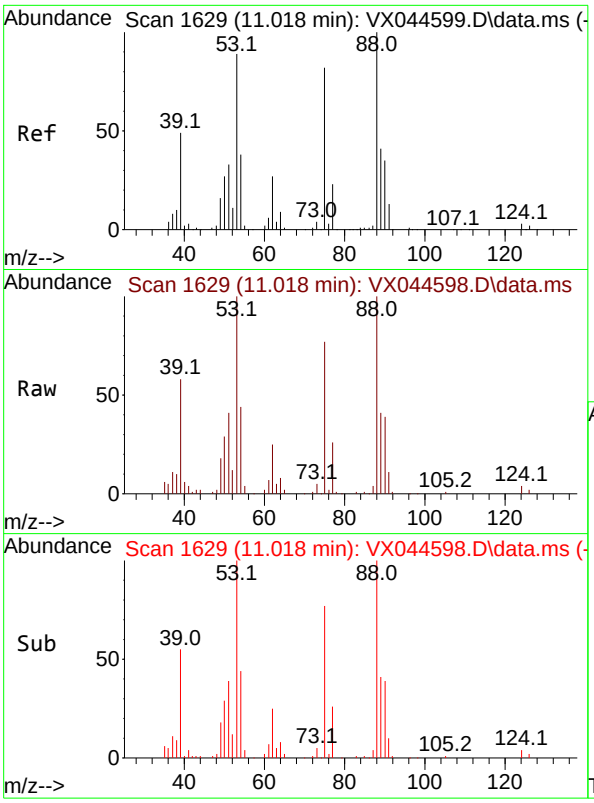


#80
1,3,5-Trimethylbenzene
Concen: 21.290 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion:105 Resp: 164285

Ion	Ratio	Lower	Upper
105	100		
120	46.7	23.5	70.5



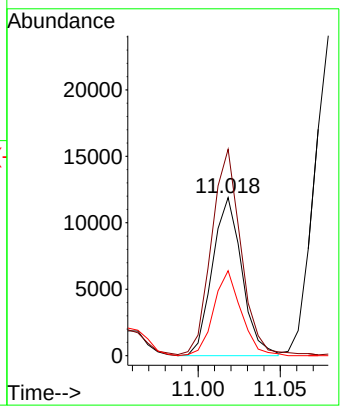


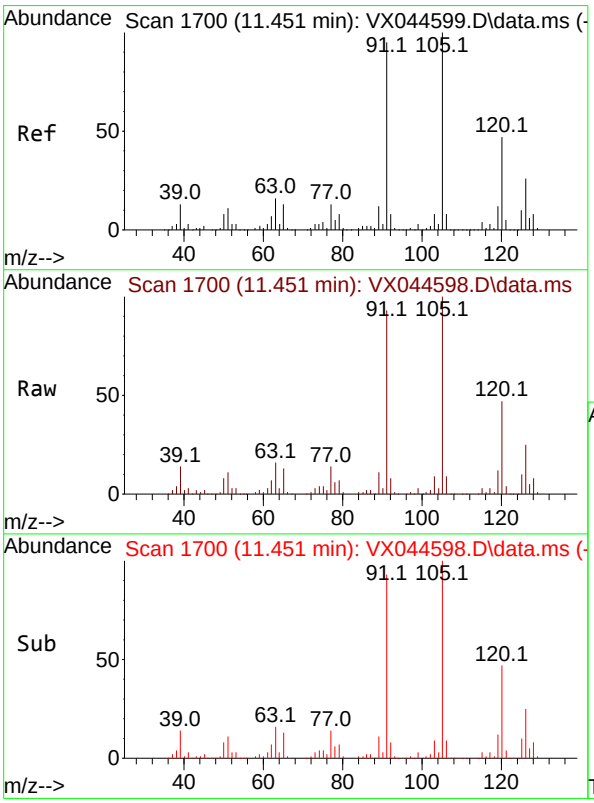
#81
trans-1,4-Dichloro-2-butene
Concen: 18.014 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 75 Resp: 14902

Ion	Ratio	Lower	Upper
75	100		
53	131.7	92.7	139.1
89	49.9	38.3	57.5

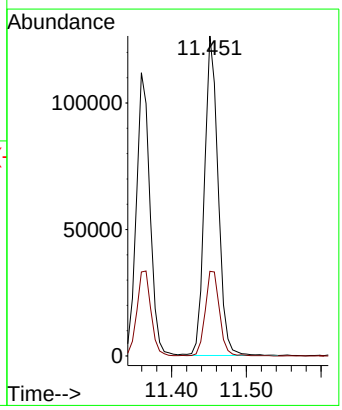


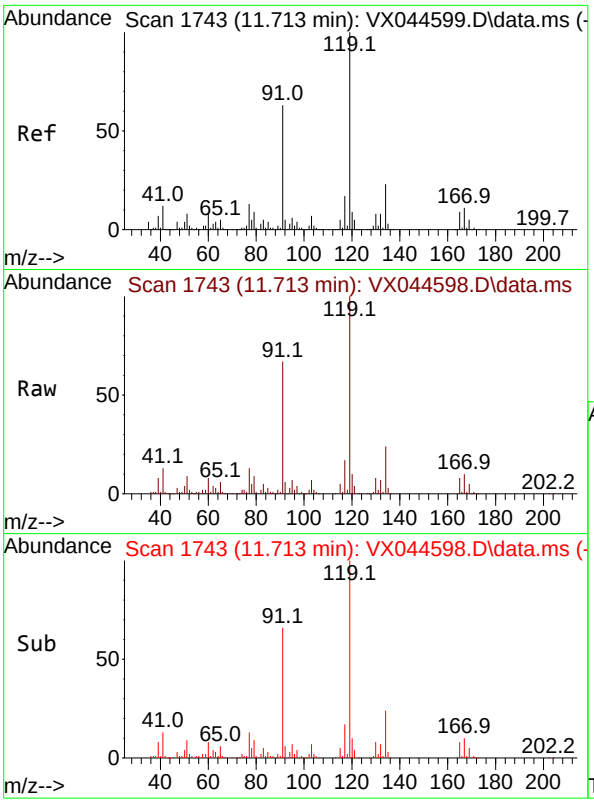


#82
4-Chlorotoluene
Concen: 20.867 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 91 Resp: 159459

Ion	Ratio	Lower	Upper
91	100		
126	27.5	14.0	42.0



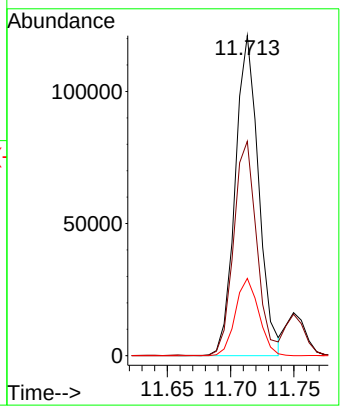


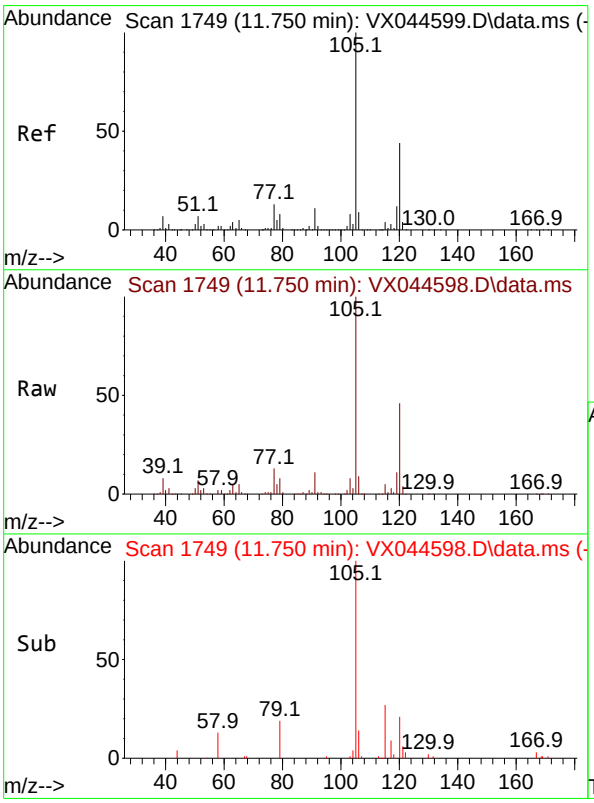
#83
tert-Butylbenzene
Concen: 20.301 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:119 Resp: 155984

Ion	Ratio	Lower	Upper
119	100		
91	66.2	30.9	92.8
134	24.2	11.7	35.0

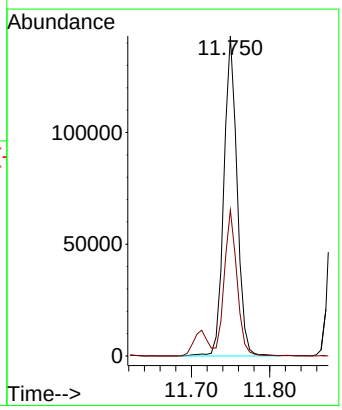


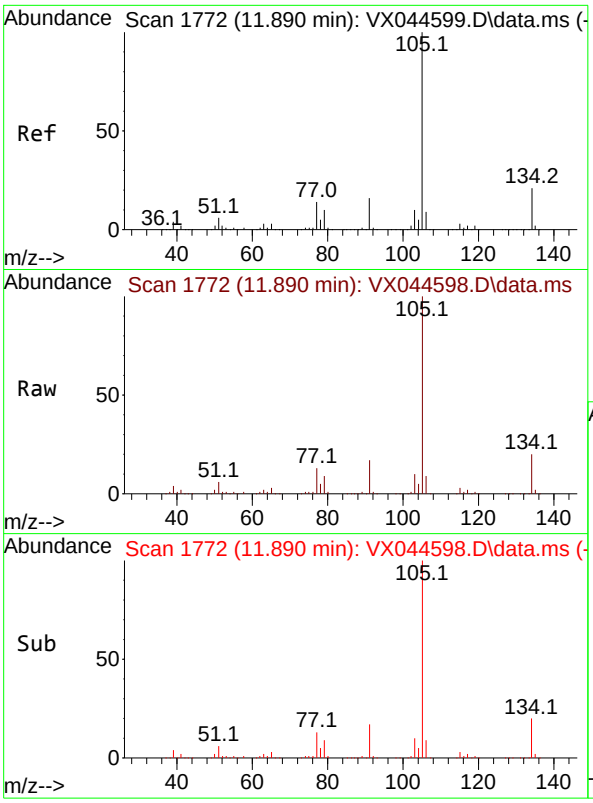


#84
1,2,4-Trimethylbenzene
Concen: 21.745 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion:105 Resp: 168552

Ion	Ratio	Lower	Upper
105	100		
120	43.7	21.9	65.7



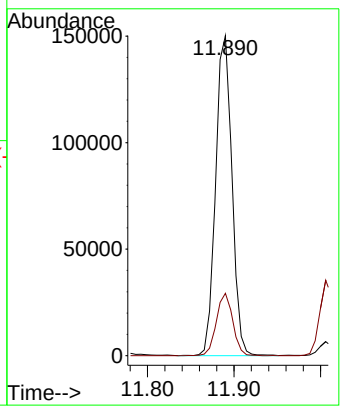


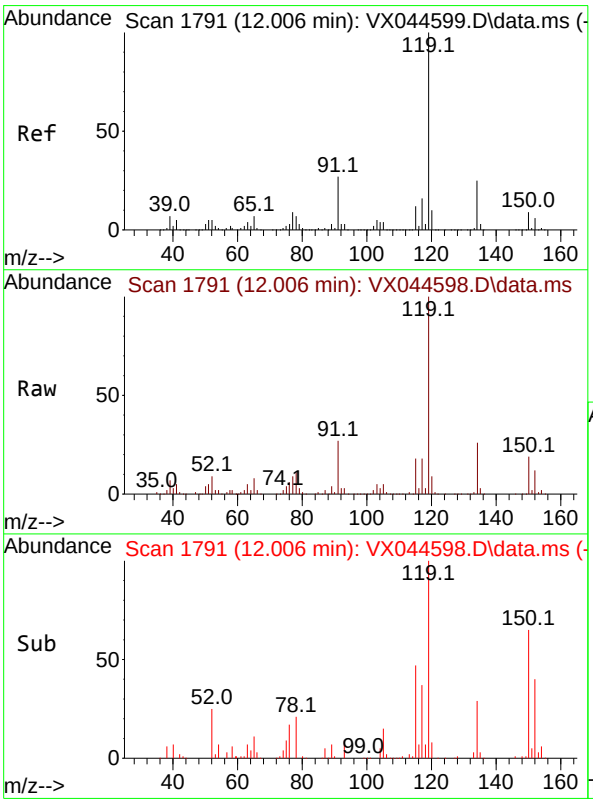
#85
sec-Butylbenzene
Concen: 21.010 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:105 Resp: 196607

Ion	Ratio	Lower	Upper
105	100		
134	19.6	9.9	29.7

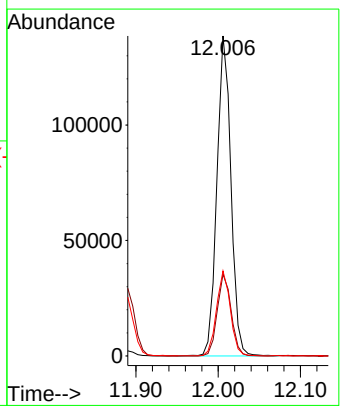


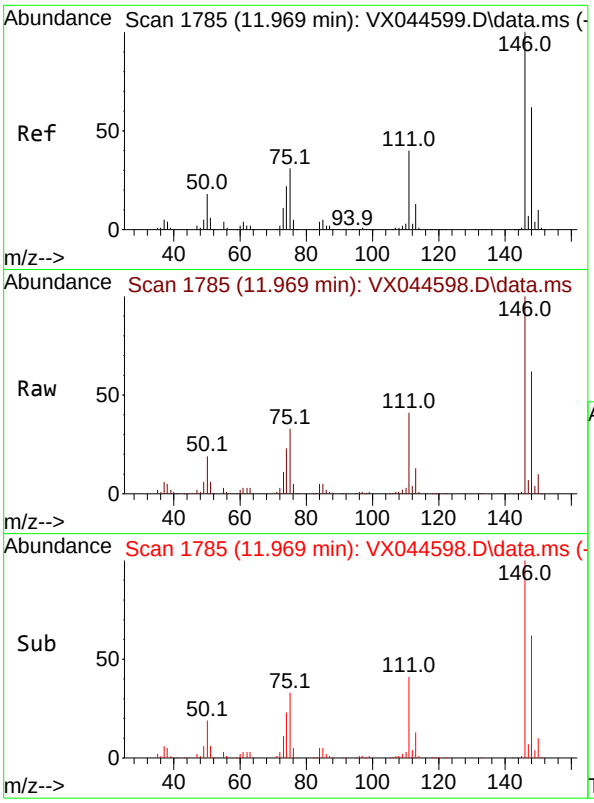


#86
p-Isopropyltoluene
Concen: 20.932 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion:119 Resp: 164348

Ion	Ratio	Lower	Upper
119	100		
134	25.4	12.6	37.8
91	26.3	13.1	39.1



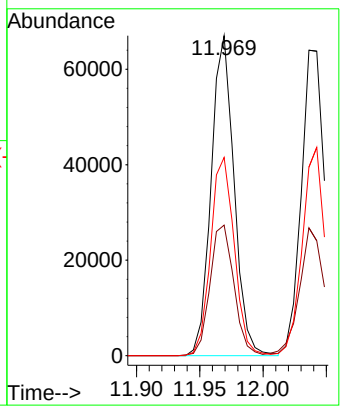


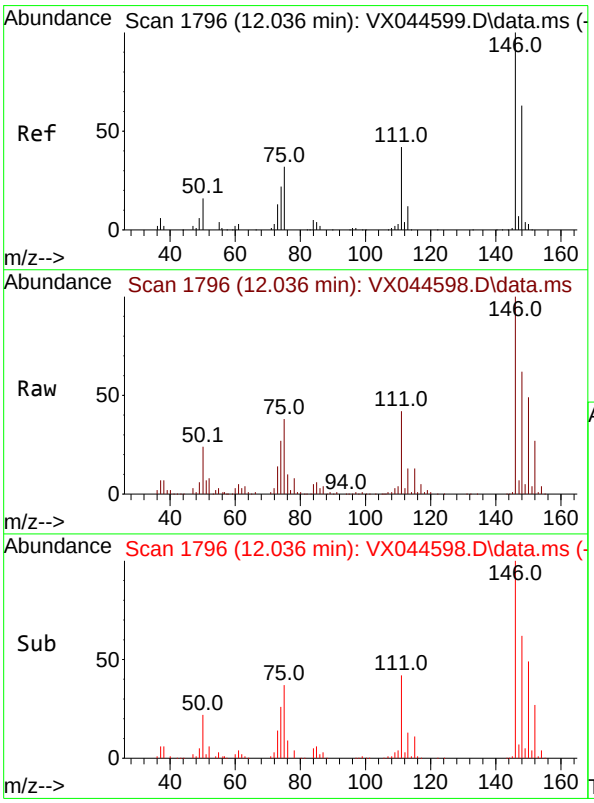
#87
1,3-Dichlorobenzene
Concen: 20.681 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:146 Resp: 84583

Ion	Ratio	Lower	Upper
146	100		
111	42.5	21.0	63.0
148	63.8	31.6	95.0

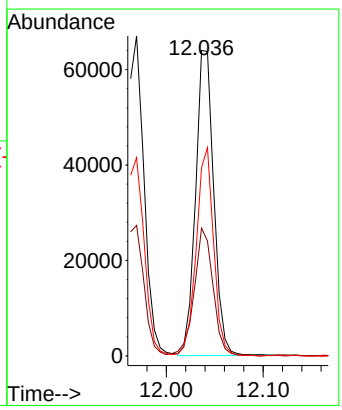


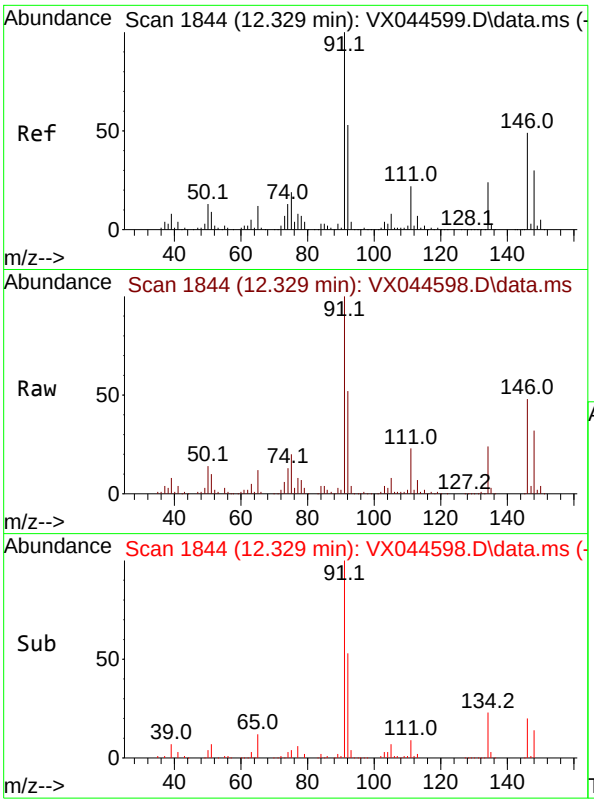


#88
1,4-Dichlorobenzene
Concen: 19.638 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion:146 Resp: 83680

Ion	Ratio	Lower	Upper
146	100		
111	43.7	20.7	62.1
148	65.4	31.8	95.4



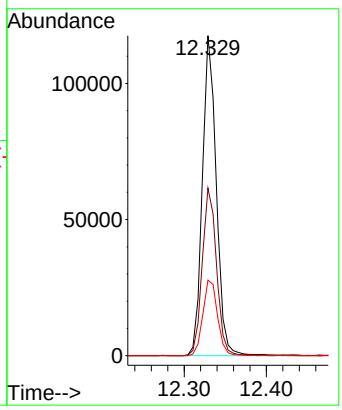


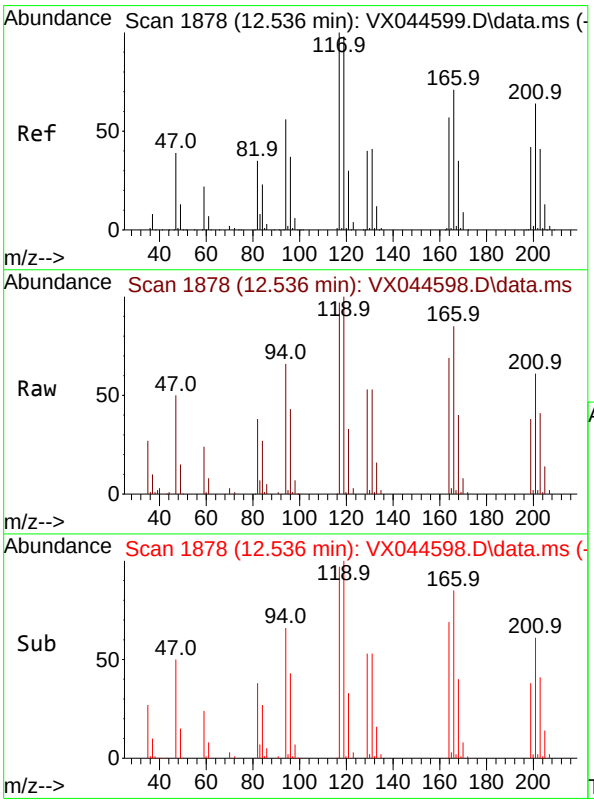
#89
n-Butylbenzene
Concen: 20.864 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 91 Resp: 138330

Ion	Ratio	Lower	Upper
91	100		
92	54.0	26.5	79.4
134	25.0	12.4	37.2

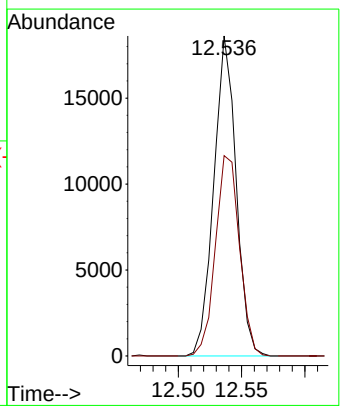


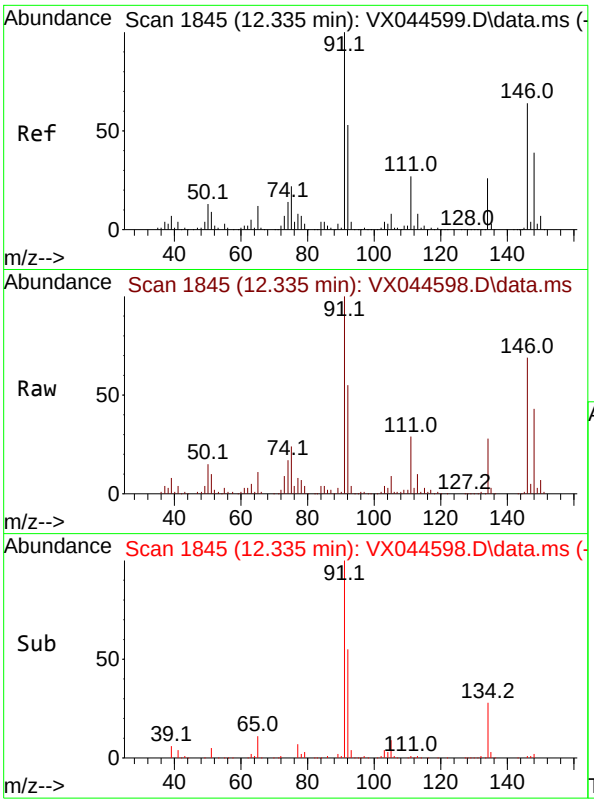


#90
Hexachloroethane
Concen: 18.096 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion:117 Resp: 22825

Ion	Ratio	Lower	Upper
117	100		
201	67.5	33.6	100.6



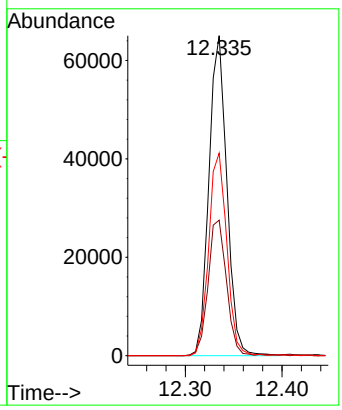


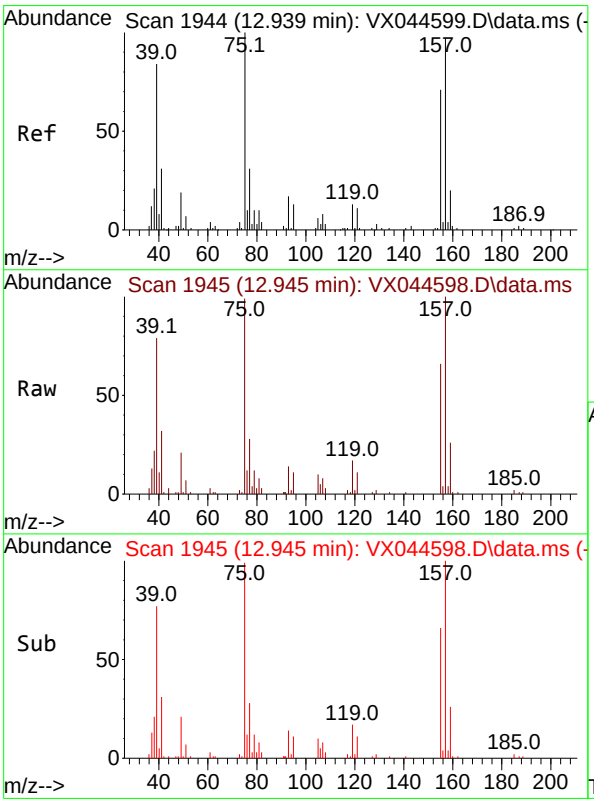
#91
1,2-Dichlorobenzene
Concen: 20.296 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:146 Resp: 83880

Ion	Ratio	Lower	Upper
146	100		
111	43.5	21.8	65.4
148	63.9	31.1	93.3

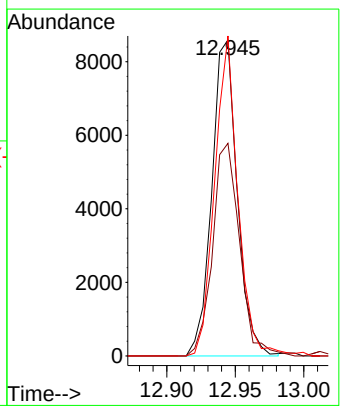


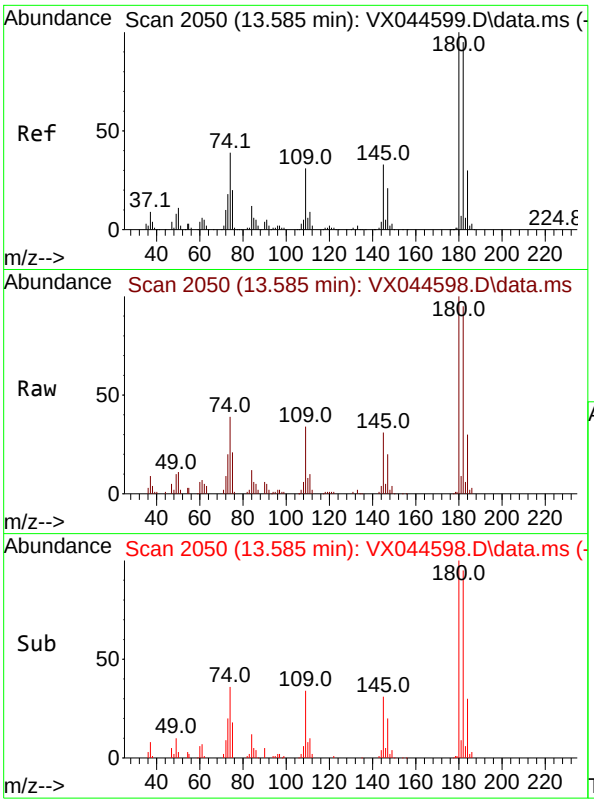


#92
1,2-Dibromo-3-Chloropropane
Concen: 19.520 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. 0.006 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion: 75 Resp: 11101

Ion	Ratio	Lower	Upper
75	100		
155	71.2	37.4	112.1
157	92.6	48.0	144.2



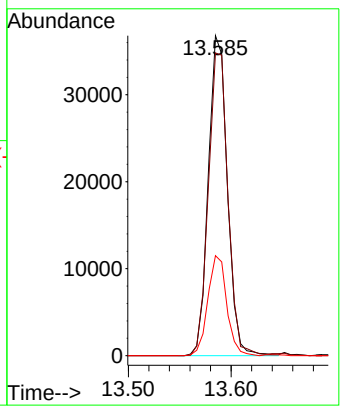


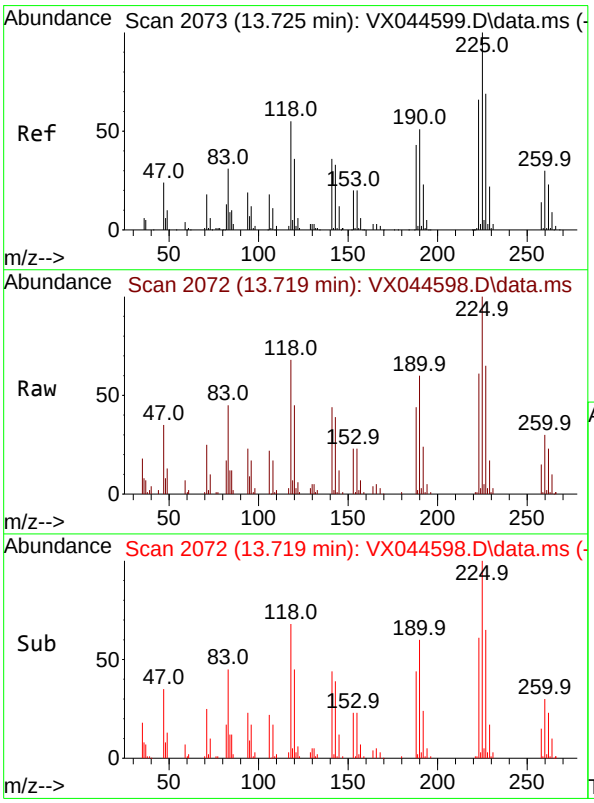
#93
1,2,4-Trichlorobenzene
Concen: 19.494 ug/l
RT: 13.585 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:180 Resp: 47350

Ion	Ratio	Lower	Upper
180	100		
182	97.2	47.9	143.6
145	31.1	16.3	48.9

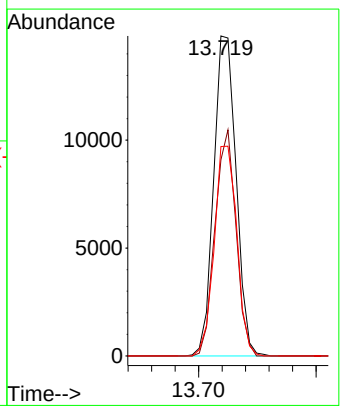


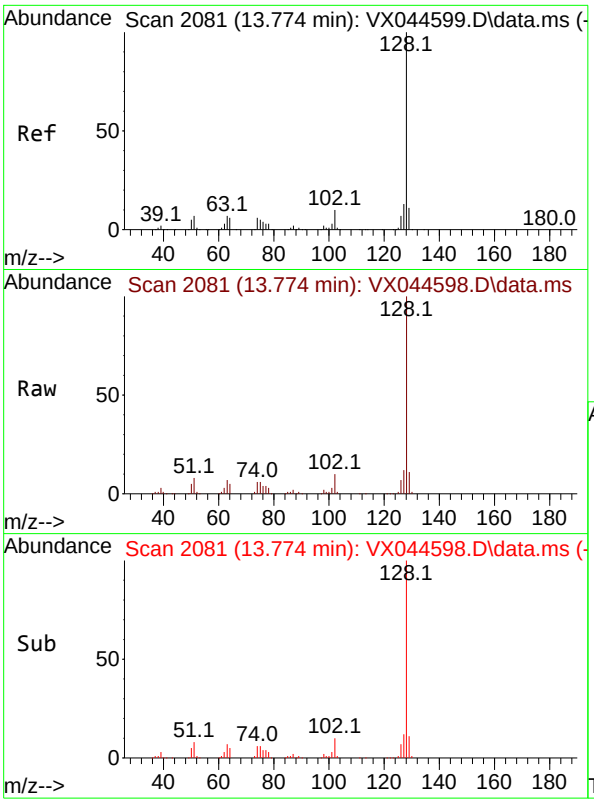


#94
Hexachlorobutadiene
Concen: 19.419 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. -0.006 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion:225 Resp: 19641

Ion	Ratio	Lower	Upper
225	100		
223	66.1	31.6	94.8
227	66.2	31.9	95.9



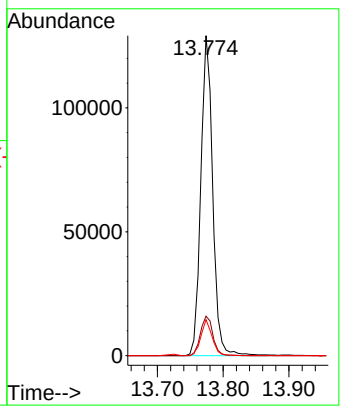


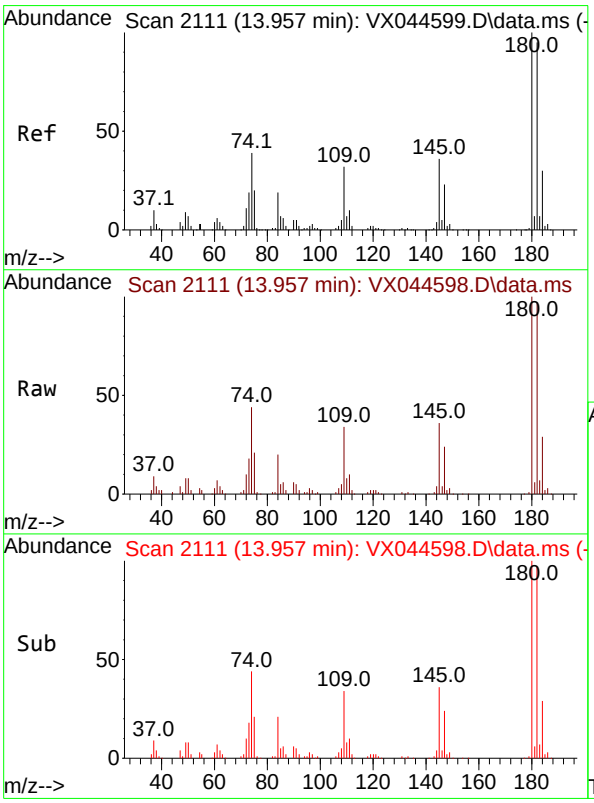
#95
Naphthalene
Concen: 20.691 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:128 Resp: 162161

Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.5	15.7
129	10.7	8.6	13.0

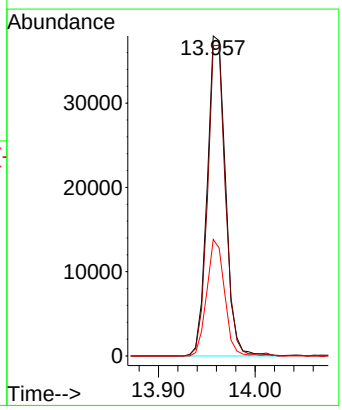




#96
1,2,3-Trichlorobenzene
Concen: 20.082 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VX044598.D
Acq: 07 Jan 2025 10:51

Tgt Ion:180 Resp: 49865

Ion	Ratio	Lower	Upper
180	100		
182	95.3	47.6	142.9
145	35.6	17.6	52.9



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044599.D
Acq On : 07 Jan 2025 11:14
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Quant Time: Jan 08 02:30:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 02:18:40 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	173796	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	298796	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	260263	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	121154	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	142022	50.681	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 101.360%			
35) Dibromofluoromethane	5.379	113	100169	48.890	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 97.780%			
50) Toluene-d8	8.647	98	345428	49.357	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 98.720%			
62) 4-Bromofluorobenzene	11.079	95	123925	50.167	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 100.340%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	135433	53.857	ug/l	100
3) Chloromethane	1.294	50	127949	51.059	ug/l	100
4) Vinyl Chloride	1.374	62	123312	52.455	ug/l	100
5) Bromomethane	1.599	94	64161	52.690	ug/l	100
6) Chloroethane	1.666	64	56267	45.086	ug/l	100
7) Trichlorofluoromethane	1.874	101	188382	53.818	ug/l	100
8) Diethyl Ether	2.130	74	60770	49.134	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.319	101	102129	50.888	ug/l	100
10) Methyl Iodide	2.447	142	141008	50.386	ug/l	100
11) Tert butyl alcohol	3.008	59	87895	254.724	ug/l	100
12) 1,1-Dichloroethene	2.313	96	97703	50.252	ug/l	100
13) Acrolein	2.233	56	115577	253.331	ug/l	100
14) Allyl chloride	2.660	41	175824	54.375	ug/l	100
15) Acrylonitrile	3.062	53	265554	267.216	ug/l	100
16) Acetone	2.380	43	238611	270.163	ug/l	100
17) Carbon Disulfide	2.508	76	212108	52.759	ug/l	100
18) Methyl Acetate	2.703	43	134854	51.731	ug/l	100
19) Methyl tert-butyl Ether	3.111	73	356440	53.495	ug/l	100
20) Methylene Chloride	2.782	84	114236	50.698	ug/l	100
21) trans-1,2-Dichloroethene	3.087	96	100853	50.541	ug/l	100
22) Diisopropyl ether	3.757	45	361827	54.433	ug/l	100
23) Vinyl Acetate	3.715	43	1546132	287.640	ug/l	100
24) 1,1-Dichloroethane	3.605	63	205366	53.022	ug/l	100
25) 2-Butanone	4.556	43	355382	278.769	ug/l	100
26) 2,2-Dichloropropane	4.471	77	175192	52.316	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	127058	52.219	ug/l	100
28) Bromochloromethane	4.891	49	95194	52.799	ug/l	100
29) Tetrahydrofuran	5.001	42	230689	264.250	ug/l	100
30) Chloroform	5.086	83	217765	52.153	ug/l	100
31) Cyclohexane	5.458	56	165559	52.061	ug/l	100
32) 1,1,1-Trichloroethane	5.379	97	188854	53.743	ug/l	100
36) 1,1-Dichloropropene	5.690	75	139122	52.511	ug/l	100
37) Ethyl Acetate	4.709	43	146801	54.207	ug/l	100
38) Carbon Tetrachloride	5.672	117	154084	52.418	ug/l	100
39) Methylcyclohexane	7.373	83	173252	51.250	ug/l	100
40) Benzene	6.031	78	432755	51.878	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044599.D
Acq On : 07 Jan 2025 11:14
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Quant Time: Jan 08 02:30:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 02:18:40 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.922	41	81440	55.981	ug/l		100
42) 1,2-Dichloroethane	6.080	62	178915	54.843	ug/l		100
43) Isopropyl Acetate	6.336	43	244614	54.708	ug/l		100
44) Trichloroethene	7.117	130	104250	48.889	ug/l		100
45) 1,2-Dichloropropane	7.428	63	108161	53.181	ug/l		100
46) Dibromomethane	7.574	93	82588	52.214	ug/l		100
47) Bromodichloromethane	7.818	83	156703	54.442	ug/l		100
48) Methyl methacrylate	7.690	41	122740	57.554	ug/l		100
49) 1,4-Dioxane	7.665	88	34918	1114.222	ug/l		100
51) 4-Methyl-2-Pentanone	8.574	43	733011	280.449	ug/l		100
52) Toluene	8.714	92	262398	52.133	ug/l		100
53) t-1,3-Dichloropropene	8.976	75	155029	56.347	ug/l		100
54) cis-1,3-Dichloropropene	8.360	75	170387	55.104	ug/l		100
55) 1,1,2-Trichloroethane	9.147	97	103084	52.243	ug/l		100
56) Ethyl methacrylate	9.116	69	162744	56.713	ug/l		100
57) 1,3-Dichloropropane	9.305	76	178595	53.900	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	392900	276.185	ug/l		100
59) 2-Hexanone	9.433	43	535861	289.895	ug/l		100
60) Dibromochloromethane	9.519	129	109924	55.871	ug/l		100
61) 1,2-Dibromoethane	9.604	107	104426	52.401	ug/l		100
64) Tetrachloroethene	9.269	164	90002	48.910	ug/l		100
65) Chlorobenzene	10.079	112	283093	51.250	ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.159	131	96419	52.556	ug/l		100
67) Ethyl Benzene	10.189	91	501840	52.906	ug/l		100
68) m/p-Xylenes	10.299	106	372279	106.805	ug/l		100
69) o-Xylene	10.640	106	181228	51.512	ug/l		100
70) Styrene	10.653	104	309043	54.919	ug/l		100
71) Bromoform	10.799	173	64456	50.124	ug/l	#	100
73) Isopropylbenzene	10.957	105	470691	52.439	ug/l		100
74) N-amyl acetate	10.842	43	207077	56.857	ug/l		100
75) 1,1,2,2-Tetrachloroethane	11.207	83	152021	52.544	ug/l		100
76) 1,2,3-Trichloropropane	11.238	75	161961	66.688	ug/l		85
77) Bromobenzene	11.195	156	112135	51.427	ug/l		100
78) n-propylbenzene	11.299	91	545301	53.936	ug/l		100
79) 2-Chlorotoluene	11.360	91	337686	51.544	ug/l		100
80) 1,3,5-Trimethylbenzene	11.451	105	400300	53.787	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	43281	54.247	ug/l		100
82) 4-Chlorotoluene	11.451	91	387640	52.596	ug/l		100
83) tert-Butylbenzene	11.713	119	390758	52.730	ug/l		100
84) 1,2,4-Trimethylbenzene	11.750	105	401606	53.720	ug/l		100
85) sec-Butylbenzene	11.890	105	475025	52.634	ug/l		100
86) p-Isopropyltoluene	12.006	119	408205	53.905	ug/l		100
87) 1,3-Dichlorobenzene	11.969	146	204488	51.842	ug/l		100
88) 1,4-Dichlorobenzene	12.036	146	204130	49.670	ug/l		100
89) n-Butylbenzene	12.329	91	354854	55.495	ug/l		100
90) Hexachloroethane	12.536	117	62782	51.608	ug/l		100
91) 1,2-Dichlorobenzene	12.335	146	205860	51.646	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	12.939	75	30135	54.942	ug/l		100
93) 1,2,4-Trichlorobenzene	13.585	180	120511	51.442	ug/l		100
94) Hexachlorobutadiene	13.725	225	49357	50.597	ug/l		100
95) Naphthalene	13.774	128	412247	54.539	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	123494	51.567	ug/l		100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044599.D
Acq On : 07 Jan 2025 11:14
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Quant Time: Jan 08 02:30:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 02:18:40 2025
Response via : Initial Calibration

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

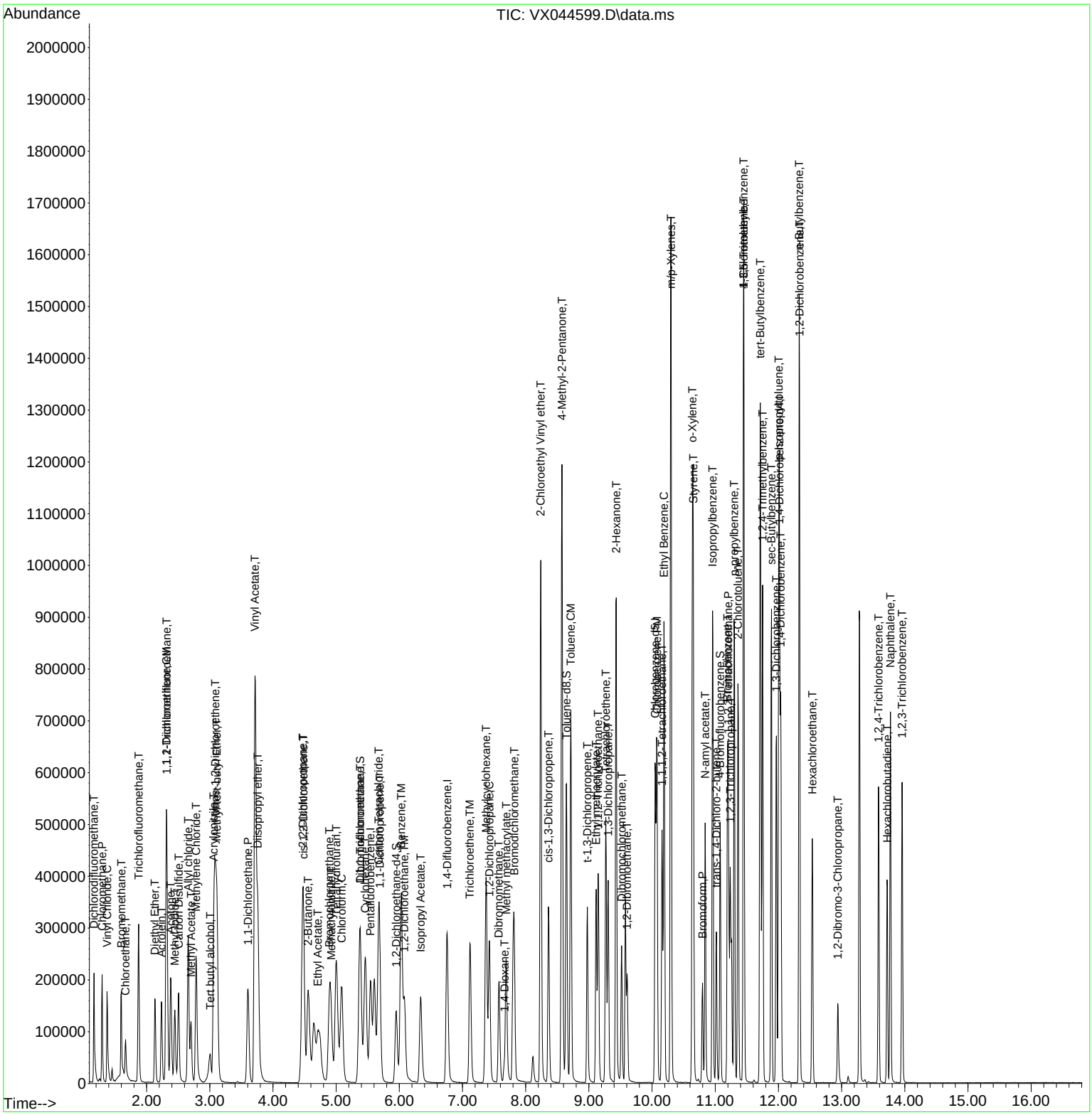
(#) = qualifier out of range (m) = manual integration (+) = signals summed

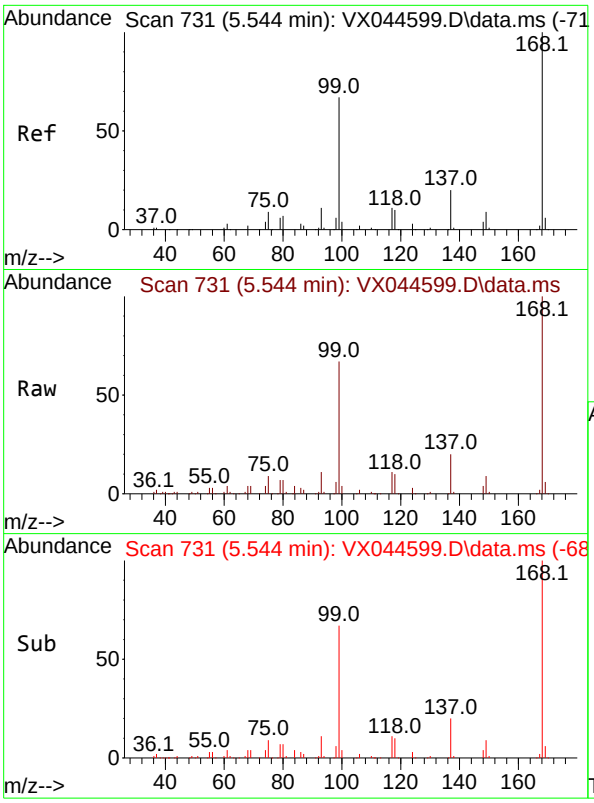
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044599.D
Acq On : 07 Jan 2025 11:14
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Quant Time: Jan 08 02:30:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 02:18:40 2025
Response via : Initial Calibration



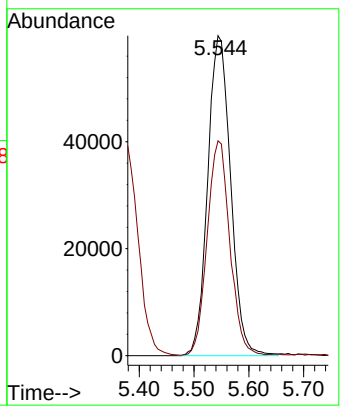


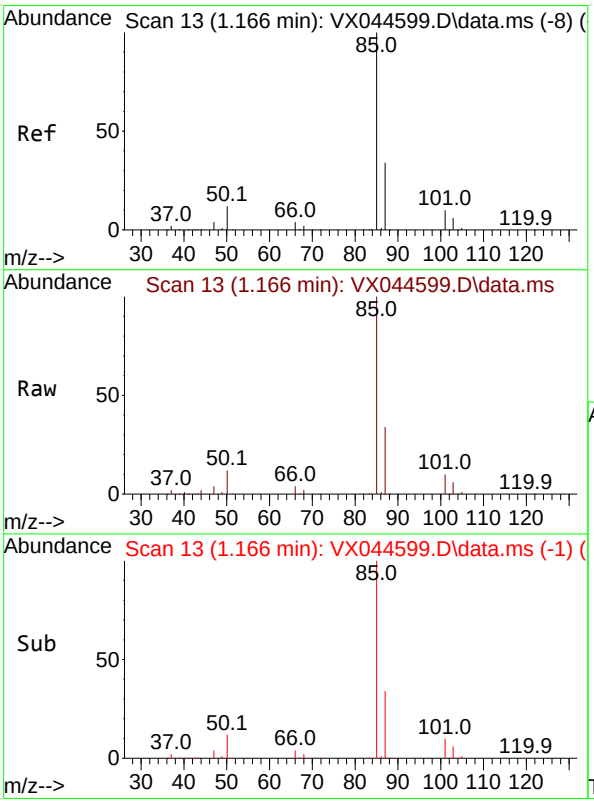
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:168 Resp: 173796

Ion	Ratio	Lower	Upper
168	100		
99	66.9	53.5	80.3

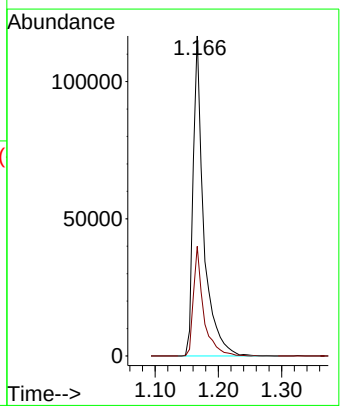


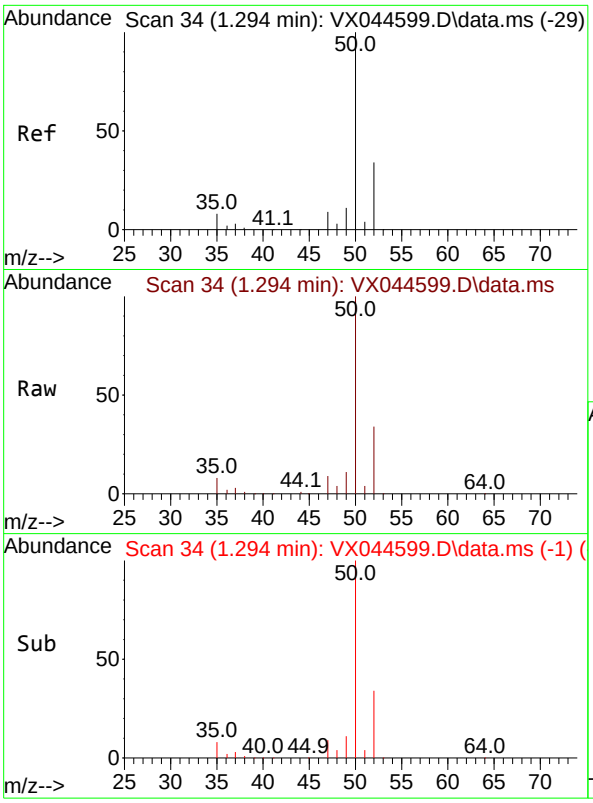


#2
Dichlorodifluoromethane
Concen: 53.857 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 85 Resp: 135433

Ion	Ratio	Lower	Upper
85	100		
87	34.3	17.2	51.5



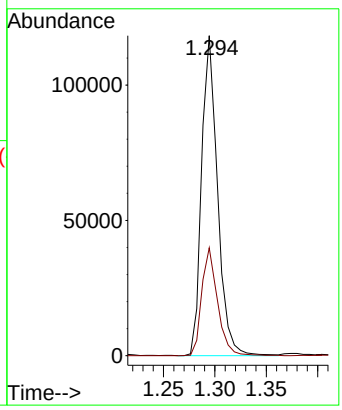


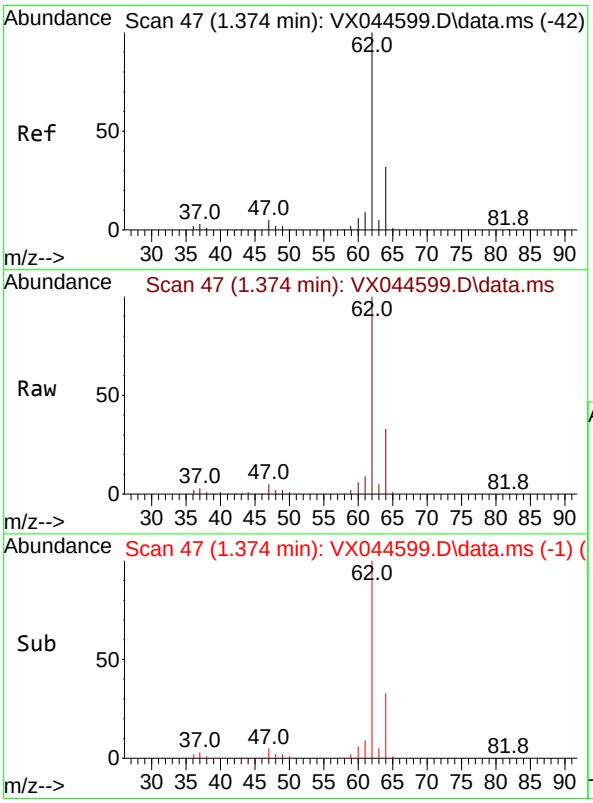
#3
Chloromethane
Concen: 51.059 ug/l
RT: 1.294 min Scan# 34
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 50 Resp: 127949

Ion	Ratio	Lower	Upper
50	100		
52	33.7	27.0	40.4

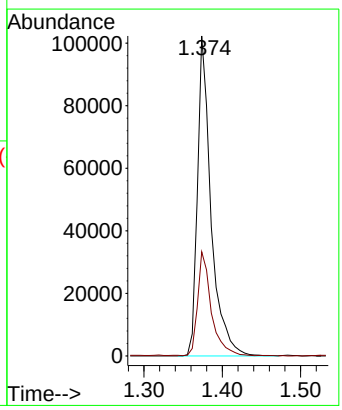


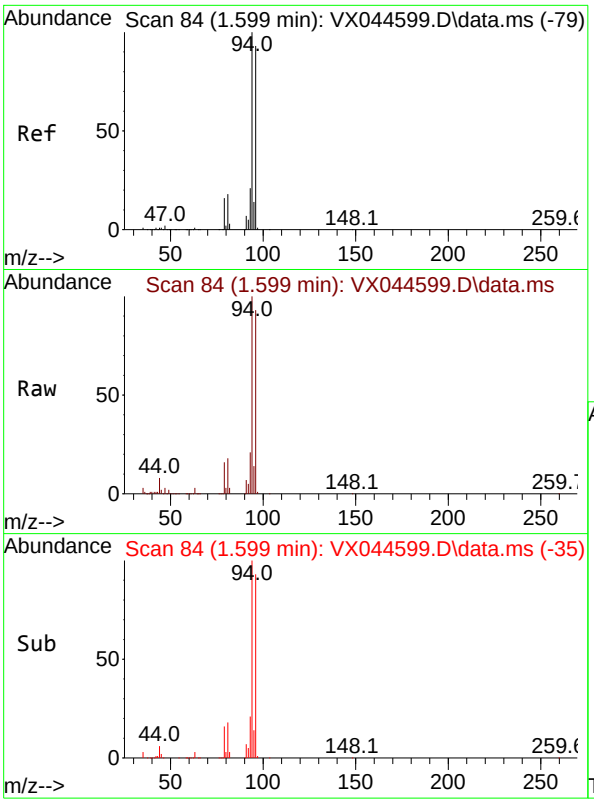


#4
Vinyl Chloride
Concen: 52.455 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 62 Resp: 123312

Ion	Ratio	Lower	Upper
62	100		
64	32.5	26.0	39.0



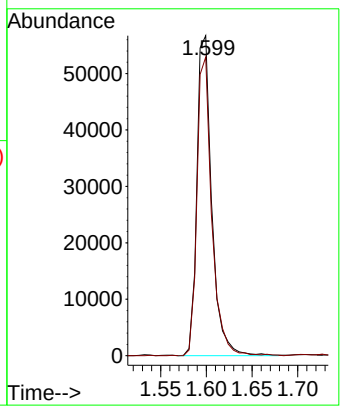


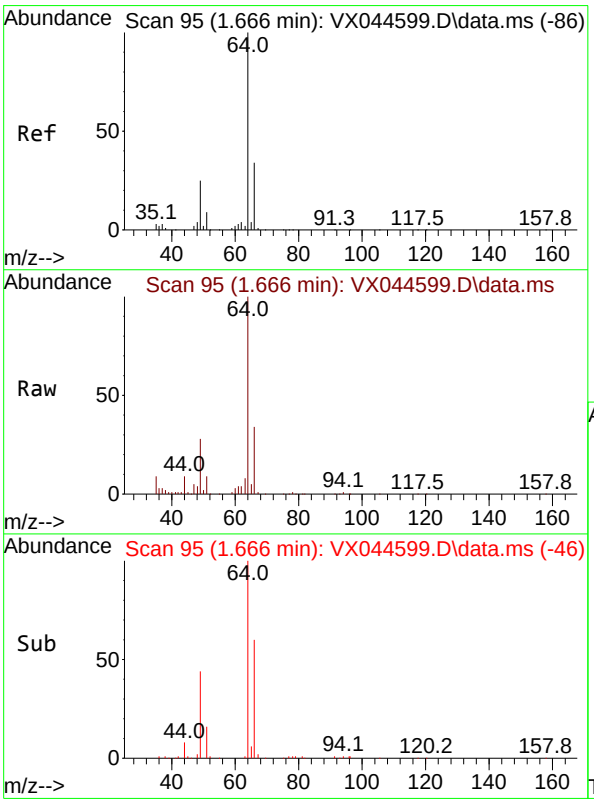
#5
Bromomethane
Concen: 52.690 ug/l
RT: 1.599 min Scan# 84
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 94 Resp: 64161

Ion	Ratio	Lower	Upper
94	100		
96	93.3	74.6	112.0

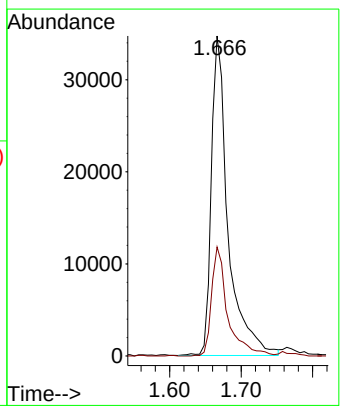


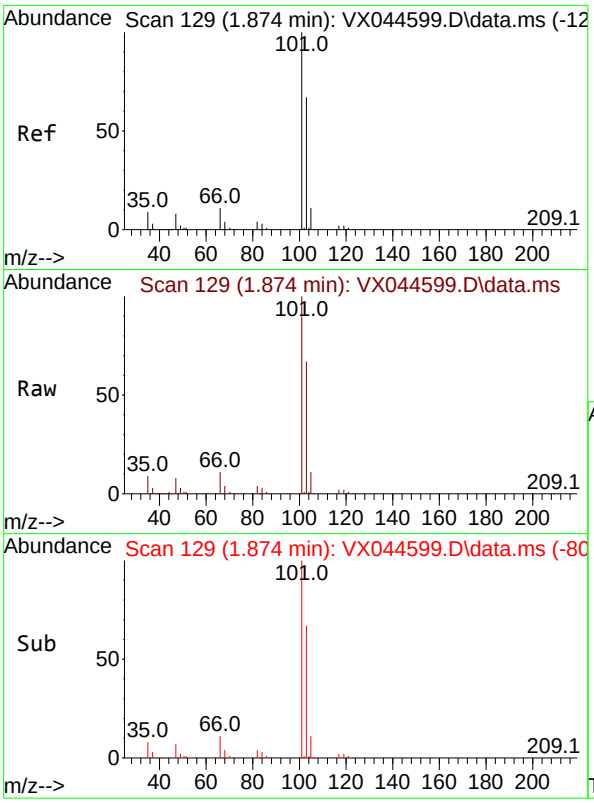


#6
Chloroethane
Concen: 45.086 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 64 Resp: 56267

Ion	Ratio	Lower	Upper
64	100		
66	34.1	27.3	40.9



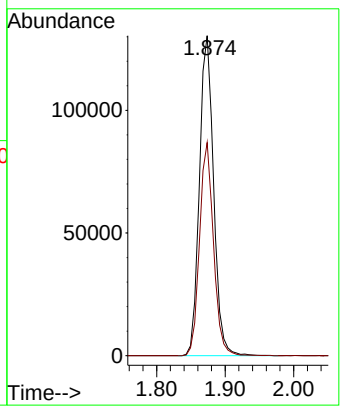


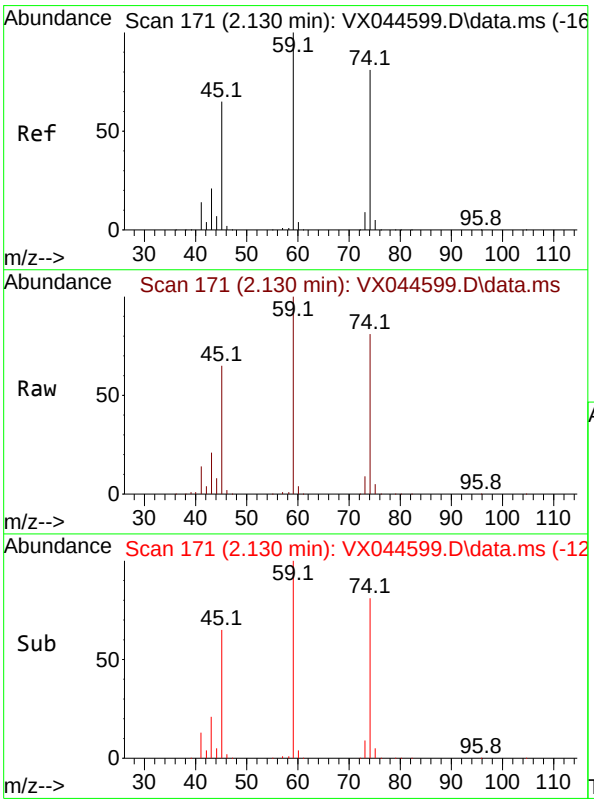
#7
Trichlorofluoromethane
Concen: 53.818 ug/l
RT: 1.874 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:101 Resp: 188382

Ion	Ratio	Lower	Upper
101	100		
103	66.6	53.3	79.9

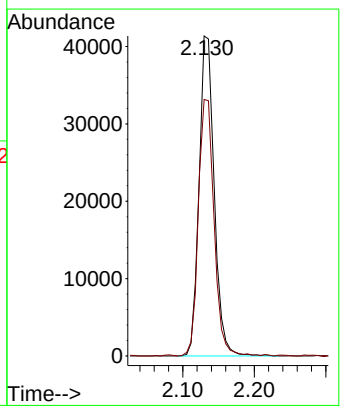


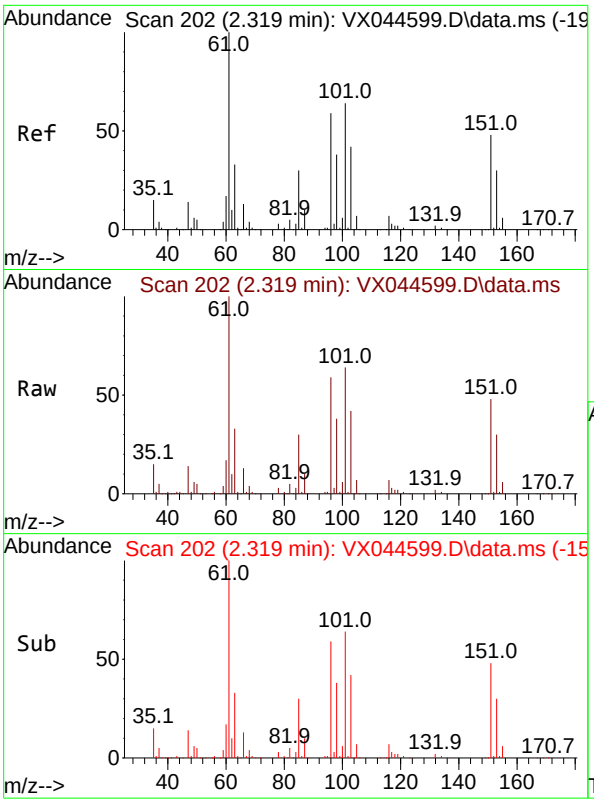


#8
Diethyl Ether
Concen: 49.134 ug/l
RT: 2.130 min Scan# 171
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 74 Resp: 60770

Ion	Ratio	Lower	Upper
74	100		
45	83.4	41.7	125.1



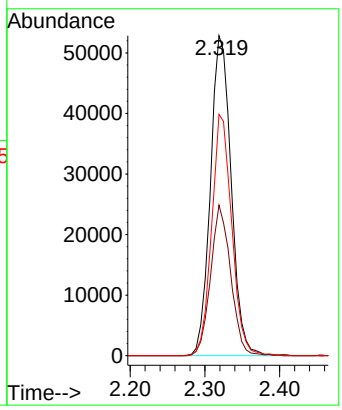


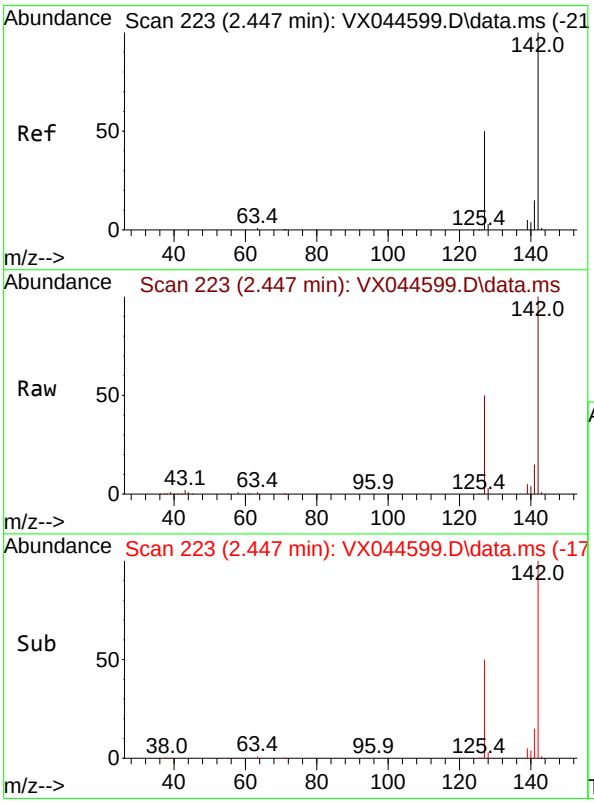
#9
1,1,2-Trichlorotrifluoroethane
Concen: 50.888 ug/l
RT: 2.319 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:101 Resp: 102129

Ion	Ratio	Lower	Upper
101	100		
85	45.6	36.5	54.7
151	73.2	58.6	87.8

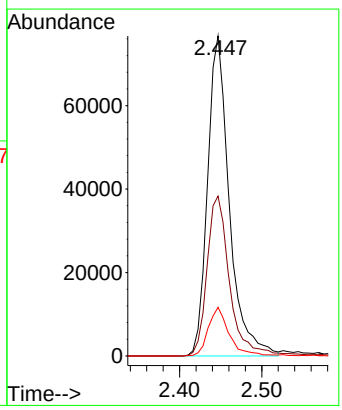


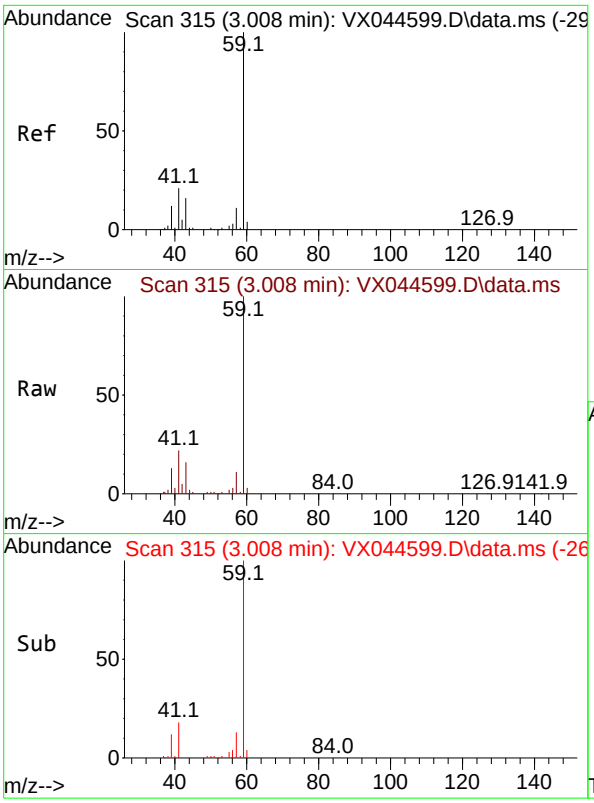


#10
Methyl Iodide
Concen: 50.386 ug/l
RT: 2.447 min Scan# 223
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion:142 Resp: 141008

Ion	Ratio	Lower	Upper
142	100		
127	52.4	41.9	62.9
141	14.7	11.8	17.6



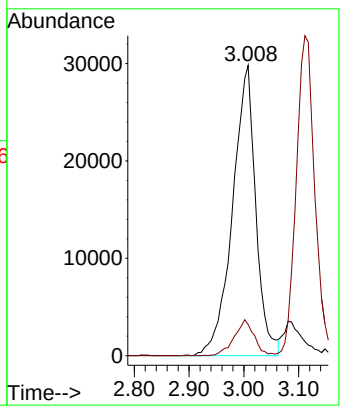


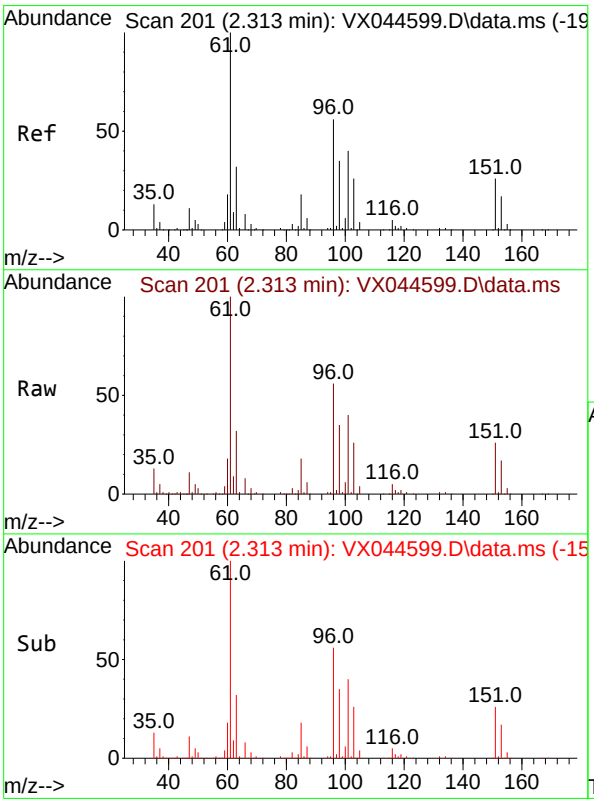
#11
Tert butyl alcohol
Concen: 254.724 ug/l
RT: 3.008 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 59 Resp: 87895

Ion	Ratio	Lower	Upper
59	100		
57	10.7	8.6	12.8

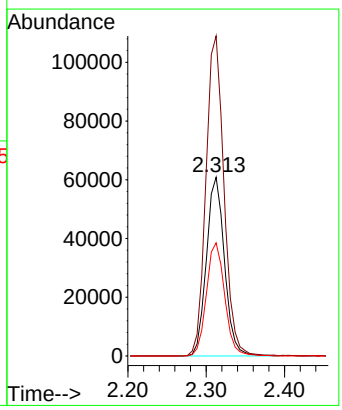


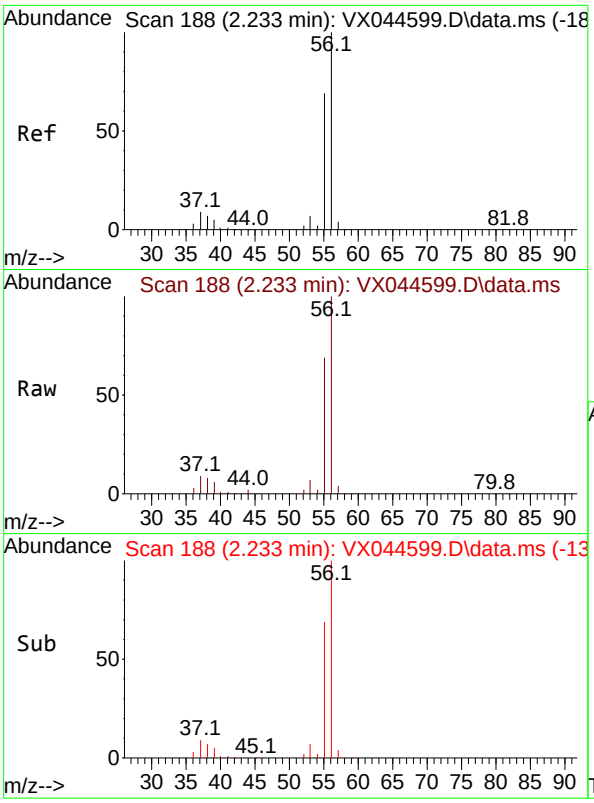


#12
1,1-Dichloroethene
Concen: 50.252 ug/l
RT: 2.313 min Scan# 201
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 96 Resp: 97703

Ion	Ratio	Lower	Upper
96	100		
61	179.1	143.3	214.9
98	63.3	50.6	76.0



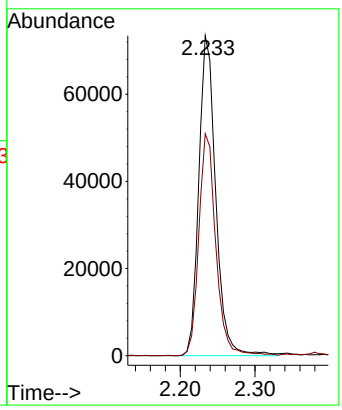


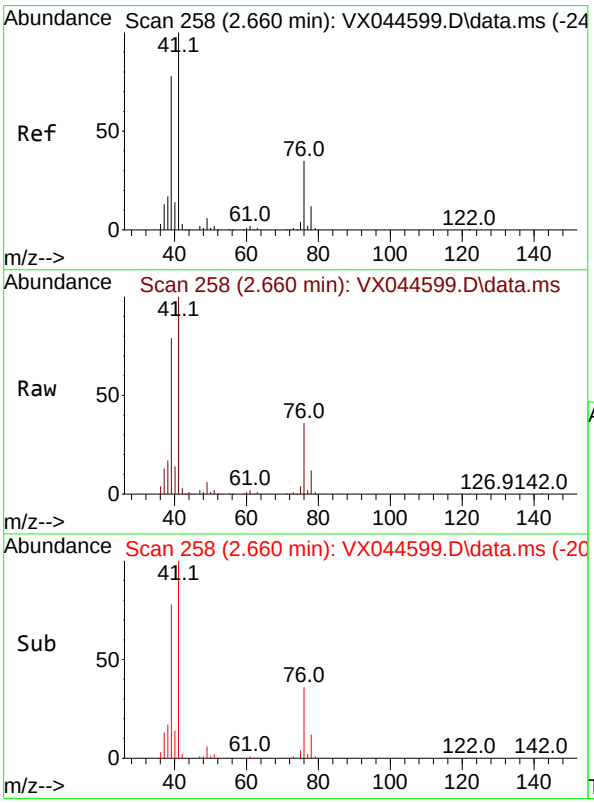
#13
Acrolein
Concen: 253.331 ug/l
RT: 2.233 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 56 Resp: 115577

Ion	Ratio	Lower	Upper
56	100		
55	69.8	55.8	83.8

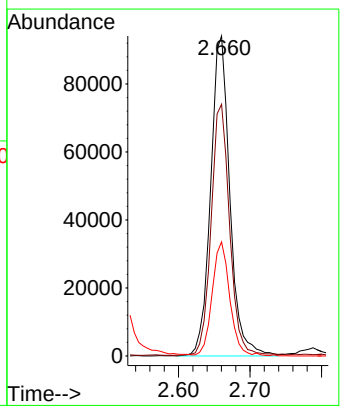


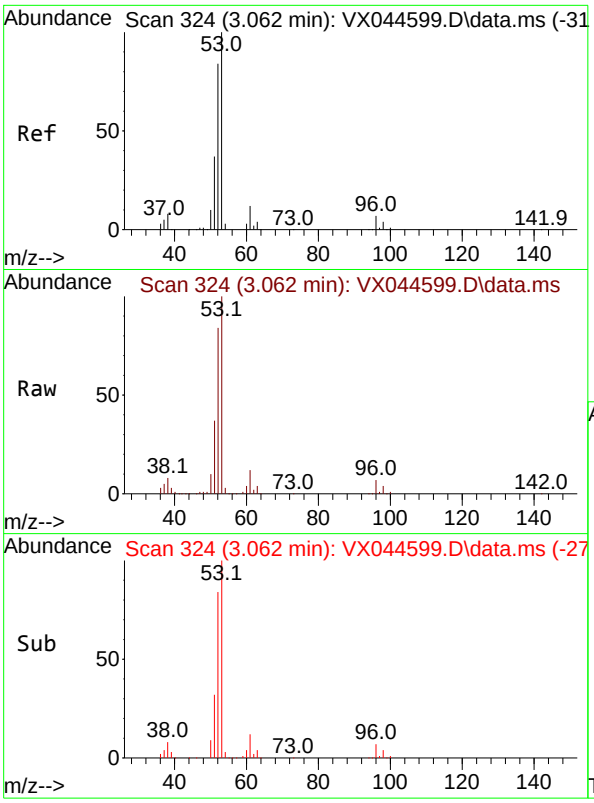


#14
Allyl chloride
Concen: 54.375 ug/l
RT: 2.660 min Scan# 258
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 41 Resp: 175824

Ion	Ratio	Lower	Upper
41	100		
39	75.2	60.2	90.2
76	32.4	25.9	38.9



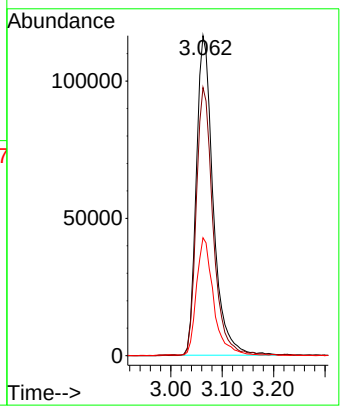


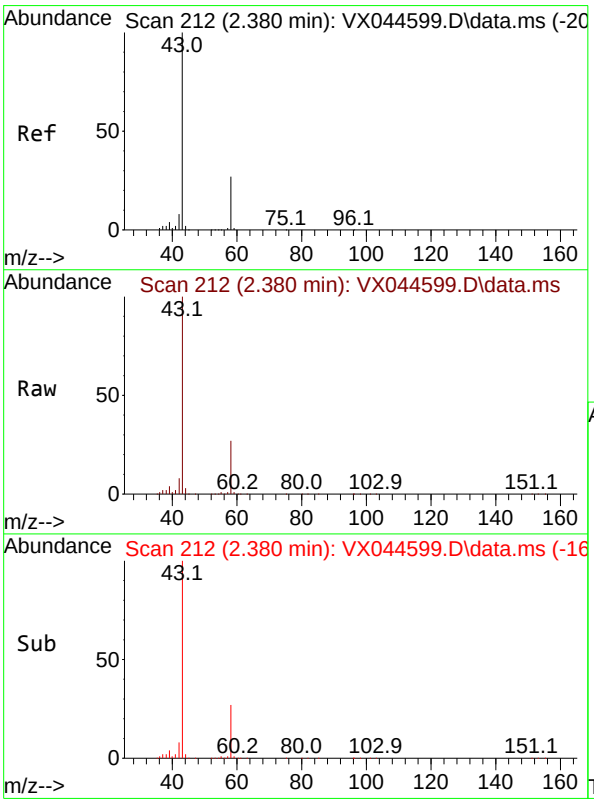
#15
Acrylonitrile
Concen: 267.216 ug/l
RT: 3.062 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 53 Resp: 265554

Ion	Ratio	Lower	Upper
53	100		
52	83.8	67.0	100.6
51	36.7	29.4	44.0

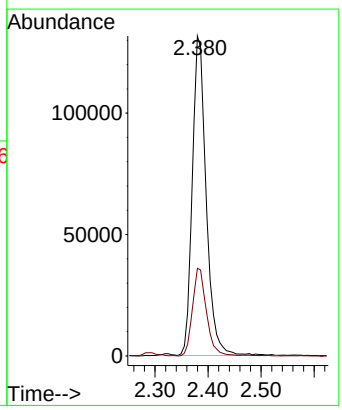


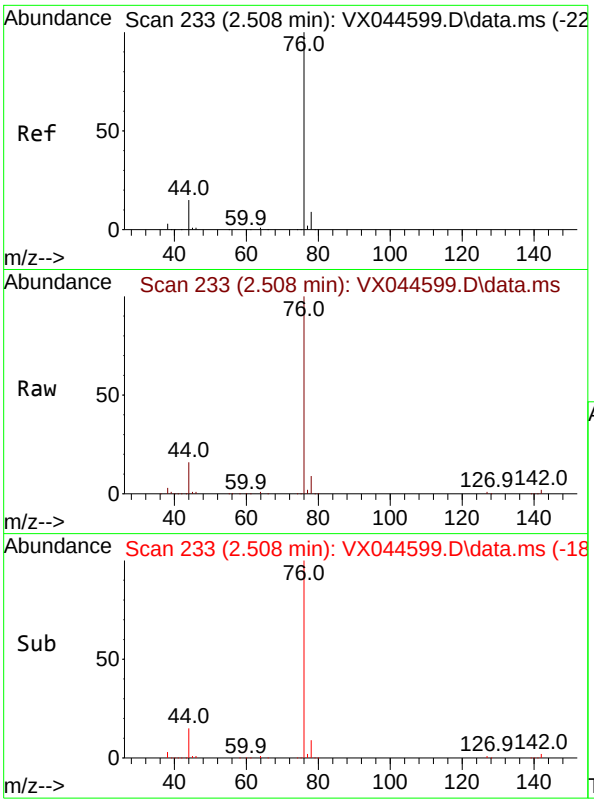


#16
Acetone
Concen: 270.163 ug/l
RT: 2.380 min Scan# 212
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 43 Resp: 238611

Ion	Ratio	Lower	Upper
43	100		
58	27.5	22.0	33.0



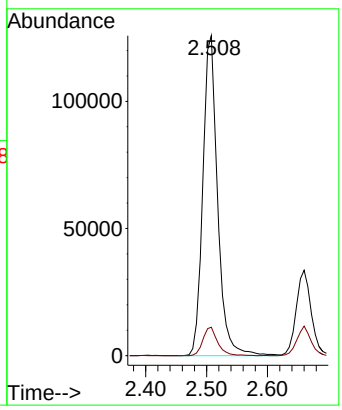


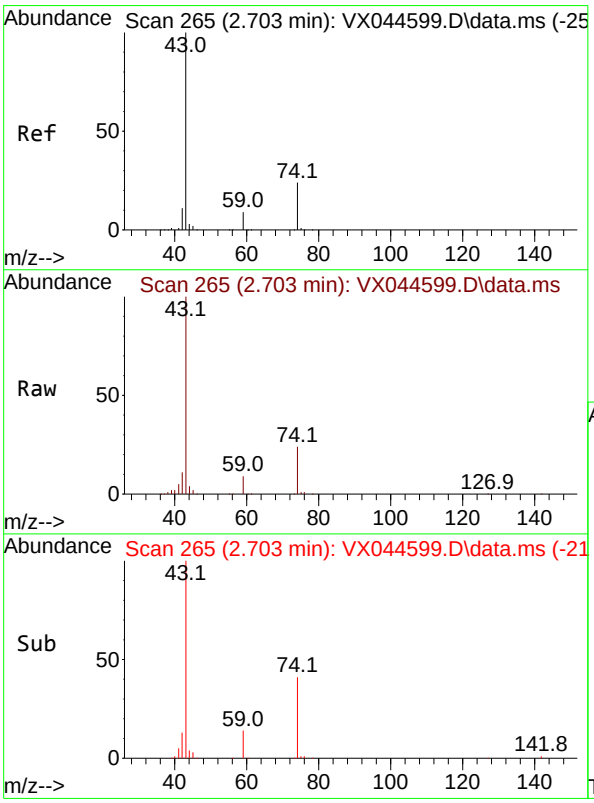
#17
Carbon Disulfide
Concen: 52.759 ug/l
RT: 2.508 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 76 Resp: 212108

Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.1	10.7

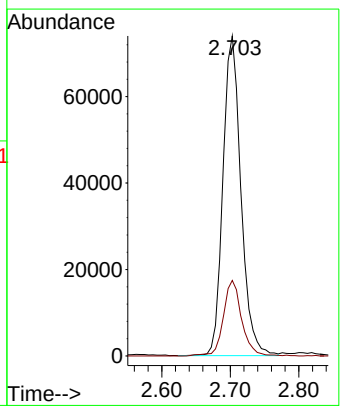


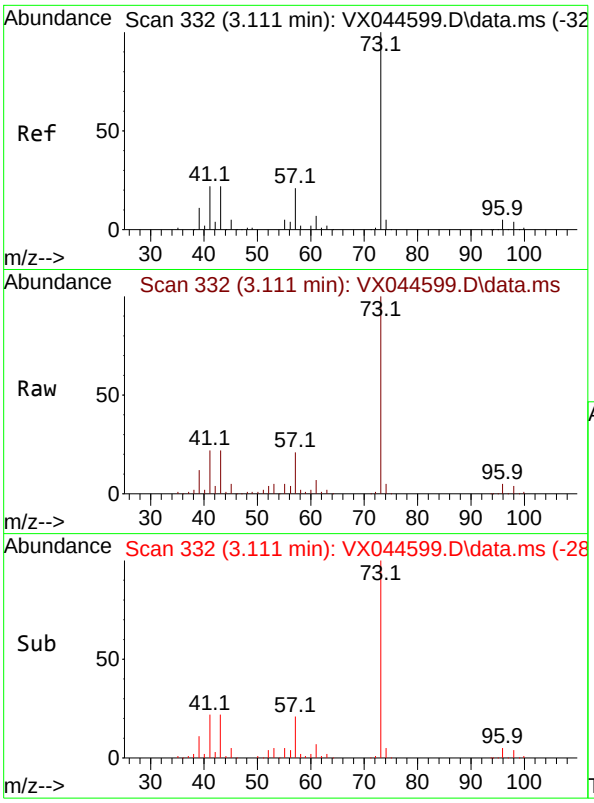


#18
Methyl Acetate
Concen: 51.731 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 43 Resp: 134854

Ion	Ratio	Lower	Upper
43	100		
74	24.1	19.3	28.9



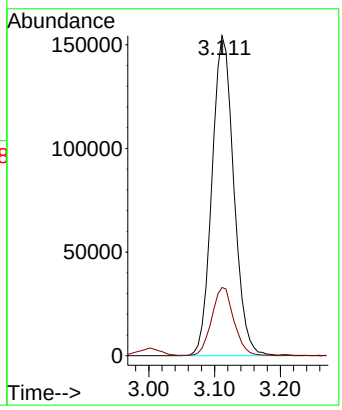


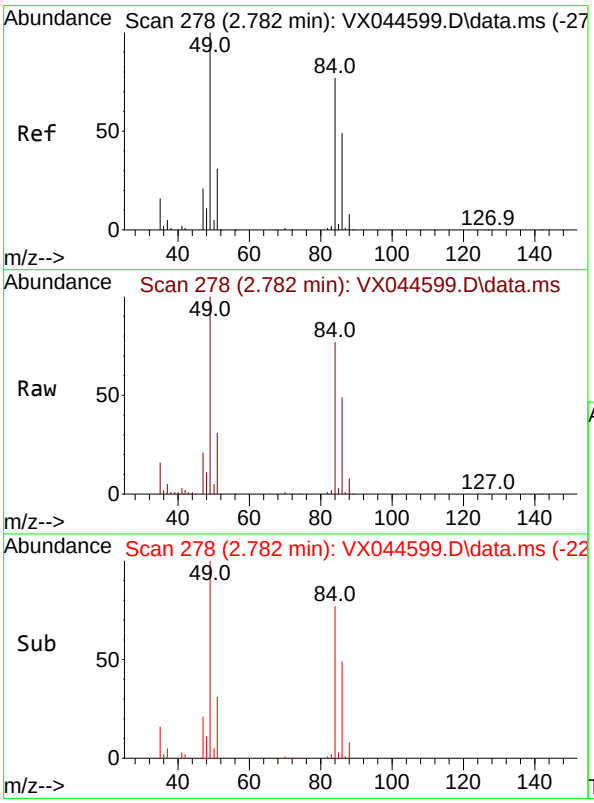
#19
Methyl tert-butyl Ether
Concen: 53.495 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 73 Resp: 356440

Ion	Ratio	Lower	Upper
73	100		
57	21.2	17.0	25.4

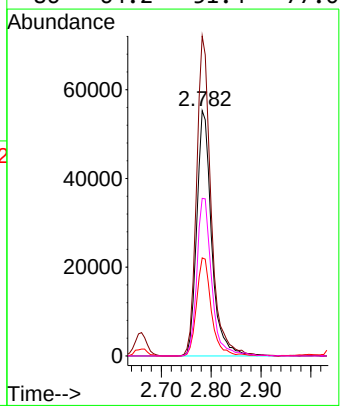


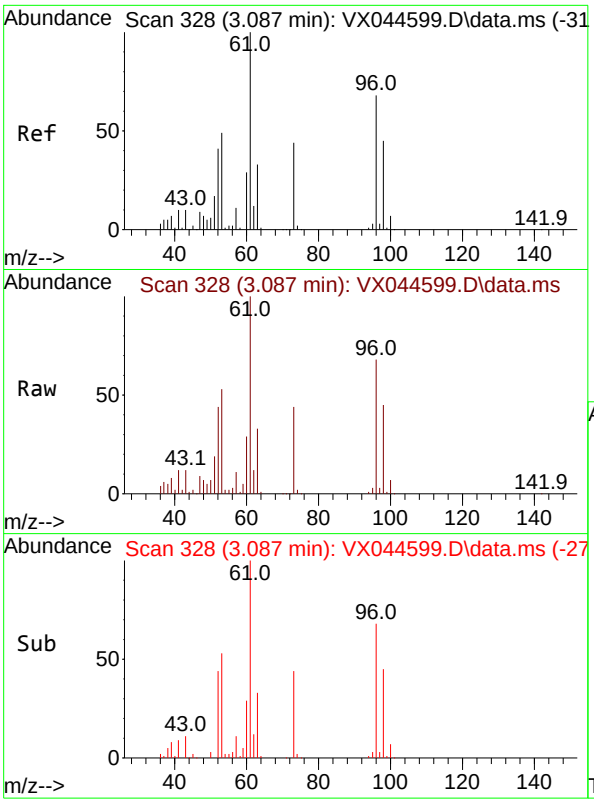


#20
Methylene Chloride
Concen: 50.698 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 84 Resp: 114236

Ion	Ratio	Lower	Upper
84	100		
49	130.5	104.4	156.6
51	40.0	32.0	48.0
86	64.2	51.4	77.0



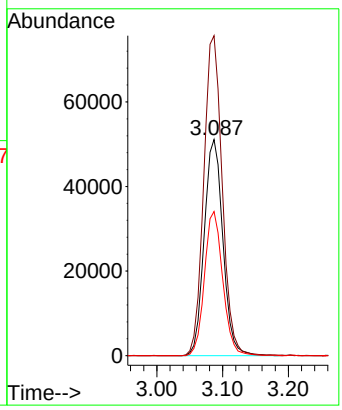


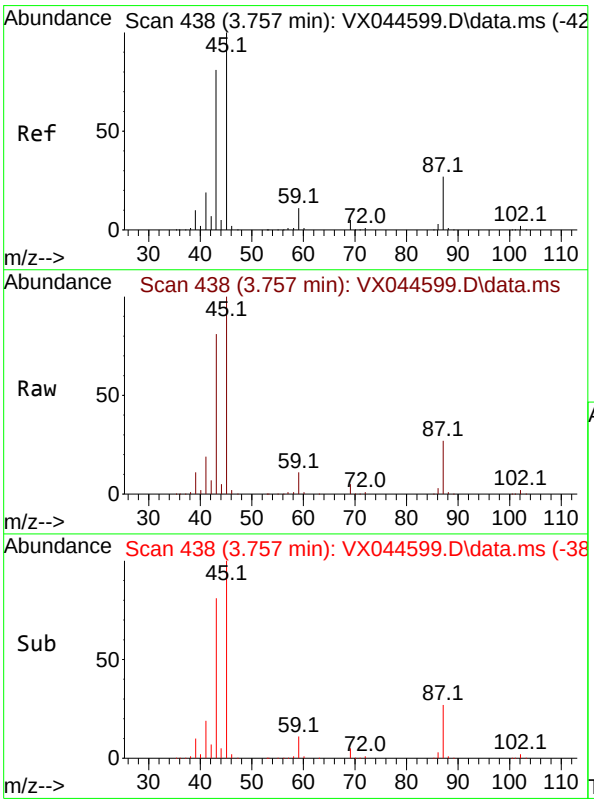
#21
trans-1,2-Dichloroethene
Concen: 50.541 ug/l
RT: 3.087 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 96 Resp: 100853

Ion	Ratio	Lower	Upper
96	100		
61	148.1	118.5	177.7
98	66.7	53.4	80.0

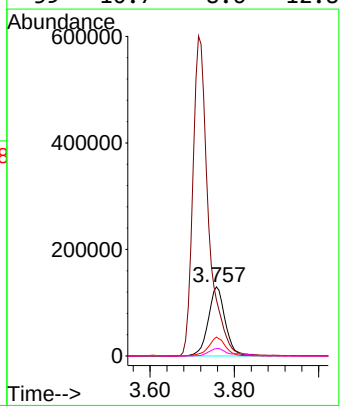


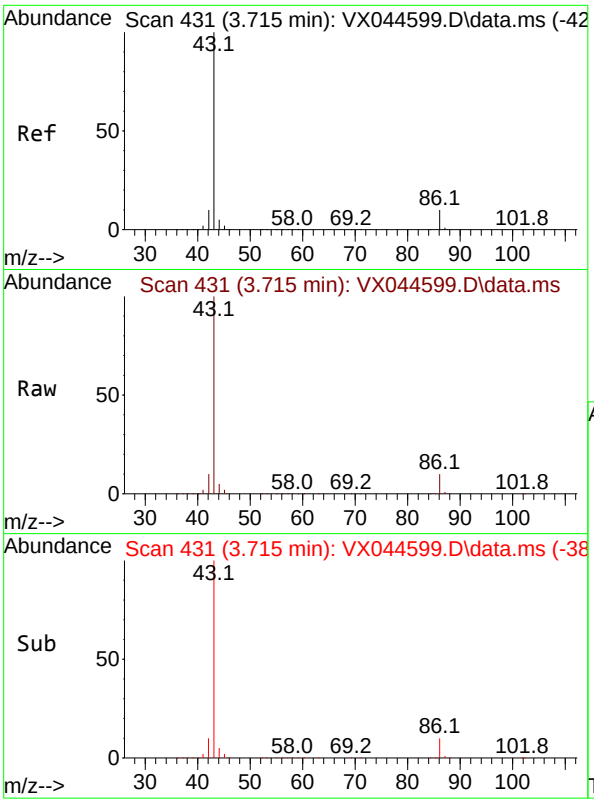


#22
Diisopropyl ether
Concen: 54.433 ug/l
RT: 3.757 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 45 Resp: 361827

Ion	Ratio	Lower	Upper
45	100		
43	80.8	64.6	97.0
87	27.3	21.8	32.8
59	10.7	8.6	12.8



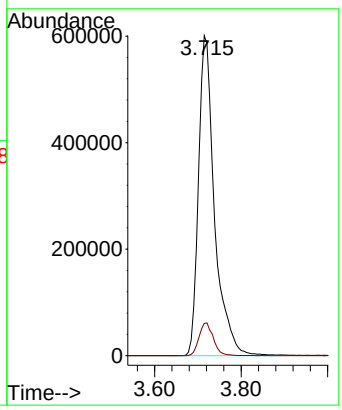


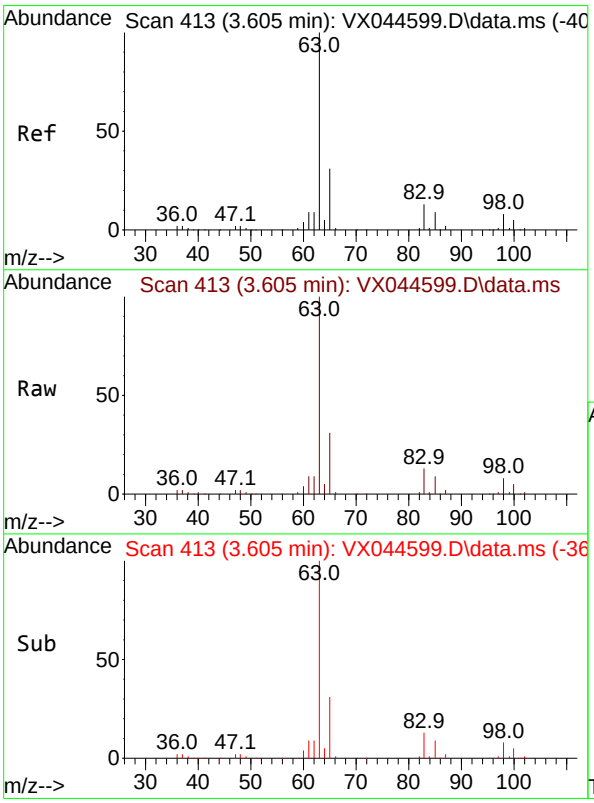
#23
Vinyl Acetate
Concen: 287.640 ug/l
RT: 3.715 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 1546132

Ion	Ratio	Lower	Upper
43	100		
86	10.1	8.1	12.1

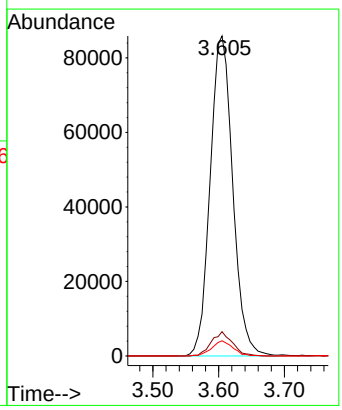


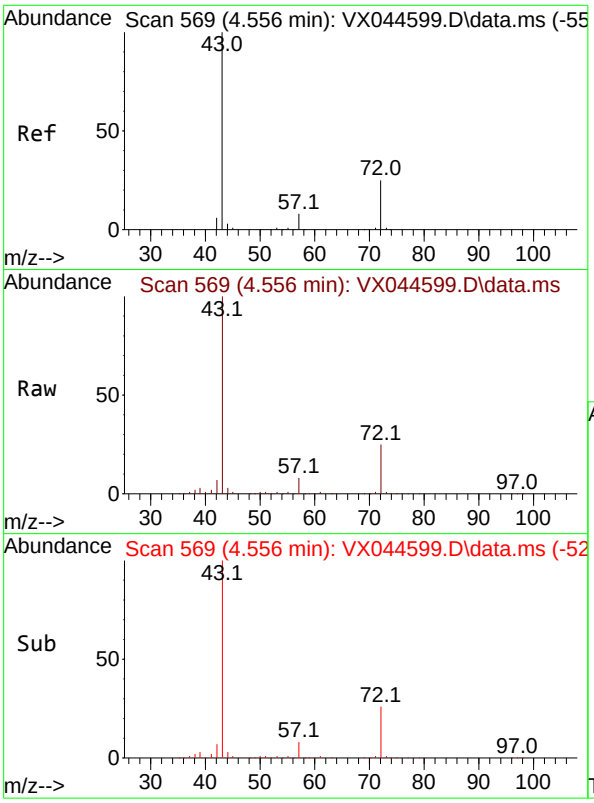


#24
1,1-Dichloroethane
Concen: 53.022 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 63 Resp: 205366

Ion	Ratio	Lower	Upper
63	100		
98	7.6	3.8	11.4
100	4.8	2.4	7.2



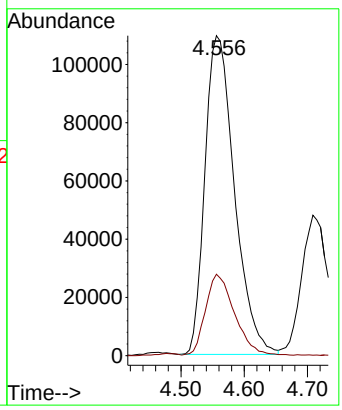


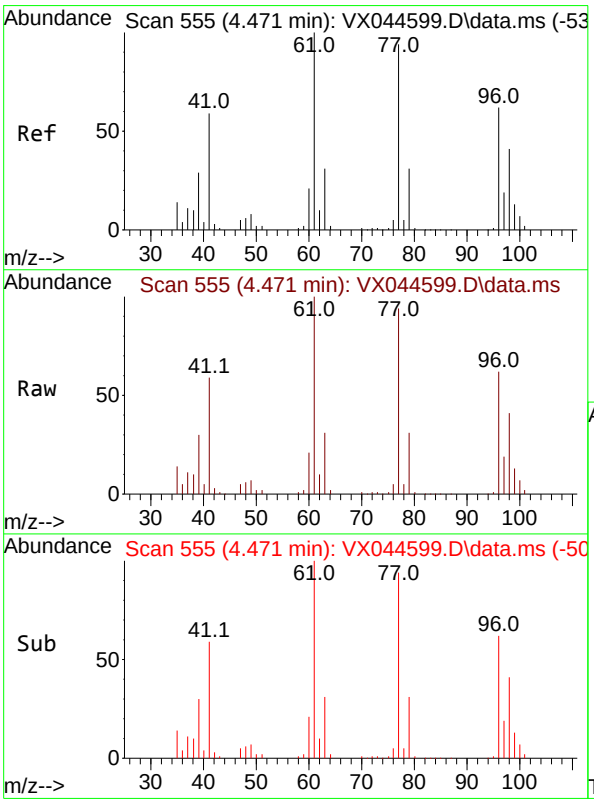
#25
2-Butanone
Concen: 278.769 ug/l
RT: 4.556 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 355382

Ion	Ratio	Lower	Upper
43	100		
72	25.2	20.2	30.2

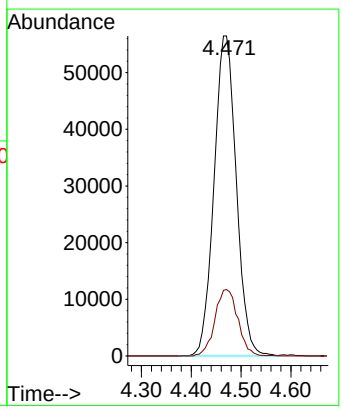


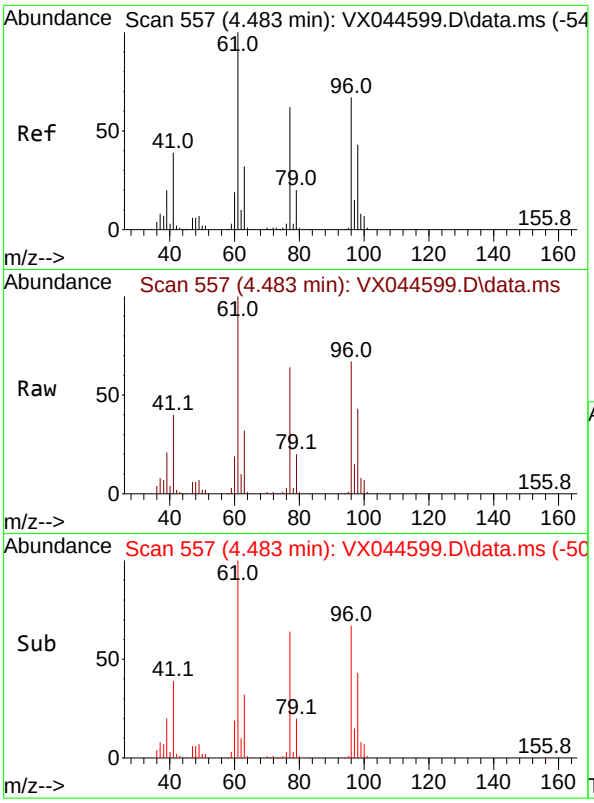


#26
2,2-Dichloropropane
Concen: 52.316 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 77 Resp: 175192

Ion	Ratio	Lower	Upper
77	100		
97	21.4	10.7	32.1



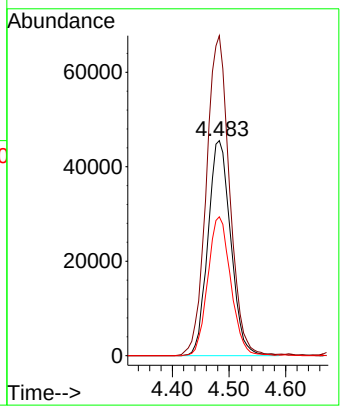


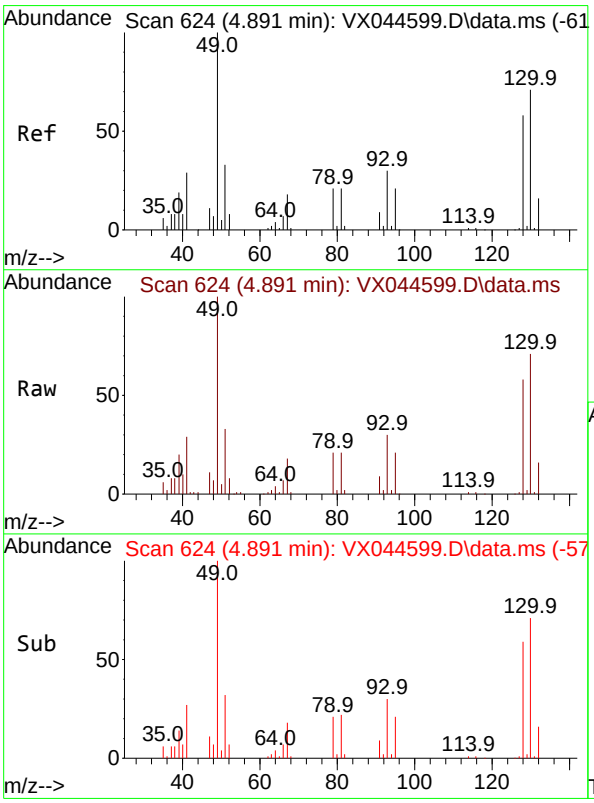
#27
cis-1,2-Dichloroethene
Concen: 52.219 ug/l
RT: 4.483 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 96 Resp: 127058

Ion	Ratio	Lower	Upper
96	100		
61	151.4	0.0	302.8
98	65.0	0.0	130.0

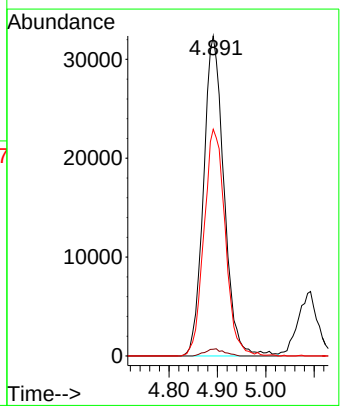


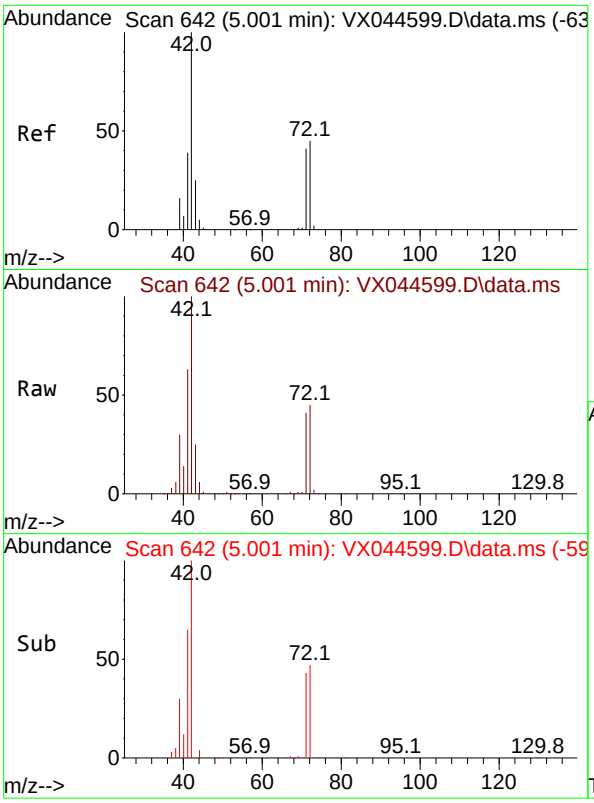


#28
Bromochloromethane
Concen: 52.799 ug/l
RT: 4.891 min Scan# 624
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 49 Resp: 95194

Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	4.2
130	73.5	58.8	88.2



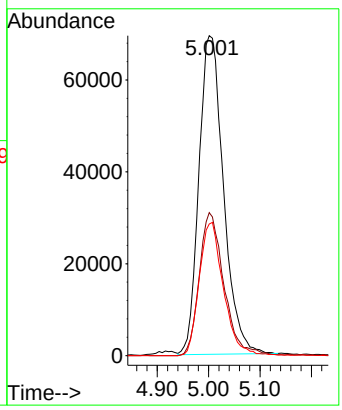


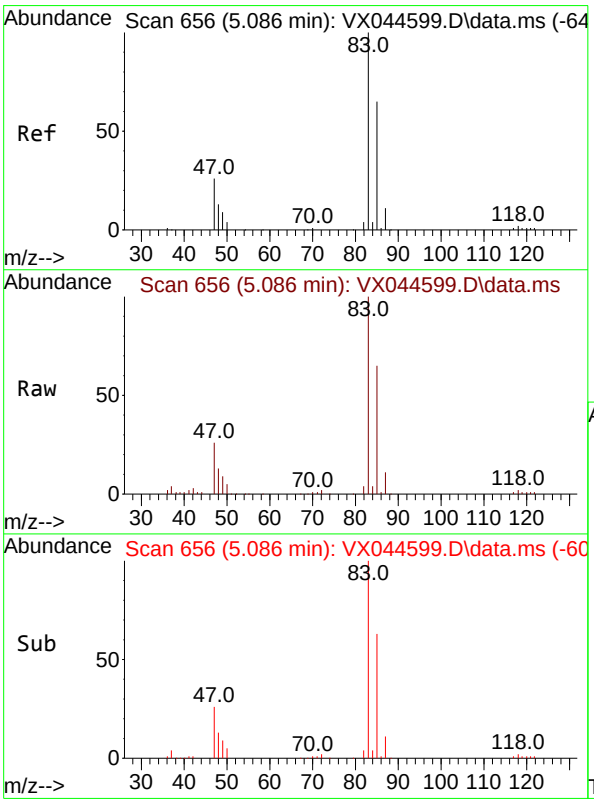
#29
Tetrahydrofuran
Concen: 264.250 ug/l
RT: 5.001 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 42 Resp: 230689

Ion	Ratio	Lower	Upper
42	100		
72	45.1	36.1	54.1
71	41.3	33.0	49.6

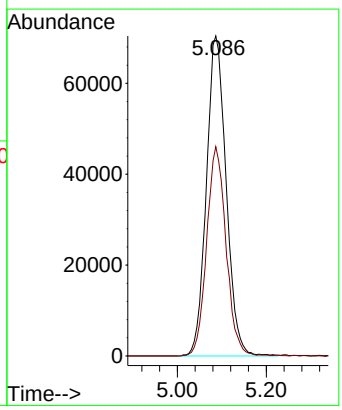


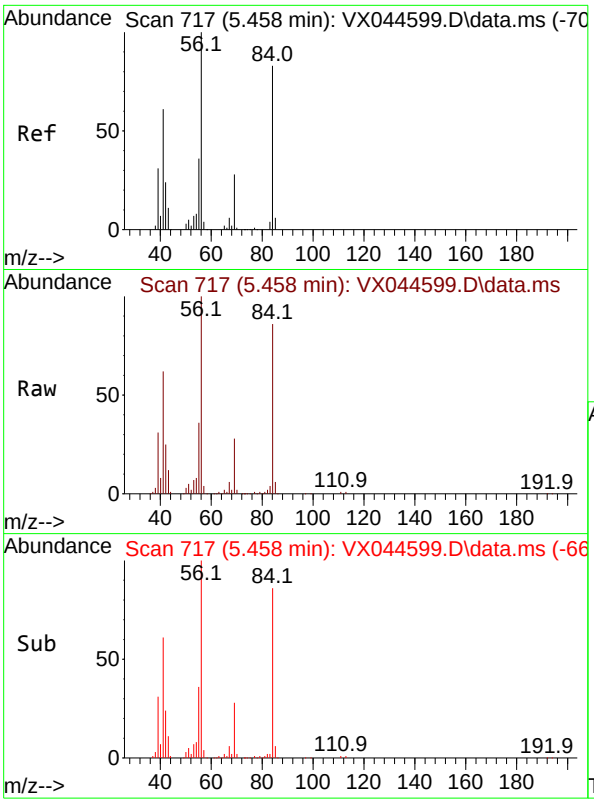


#30
Chloroform
Concen: 52.153 ug/l
RT: 5.086 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 83 Resp: 217765

Ion	Ratio	Lower	Upper
83	100		
85	65.4	52.3	78.5



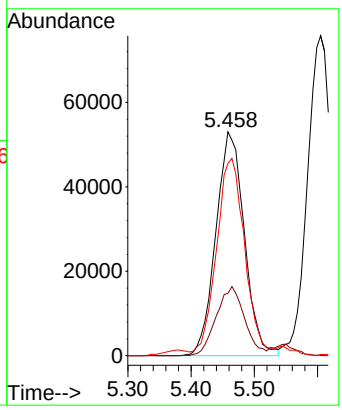


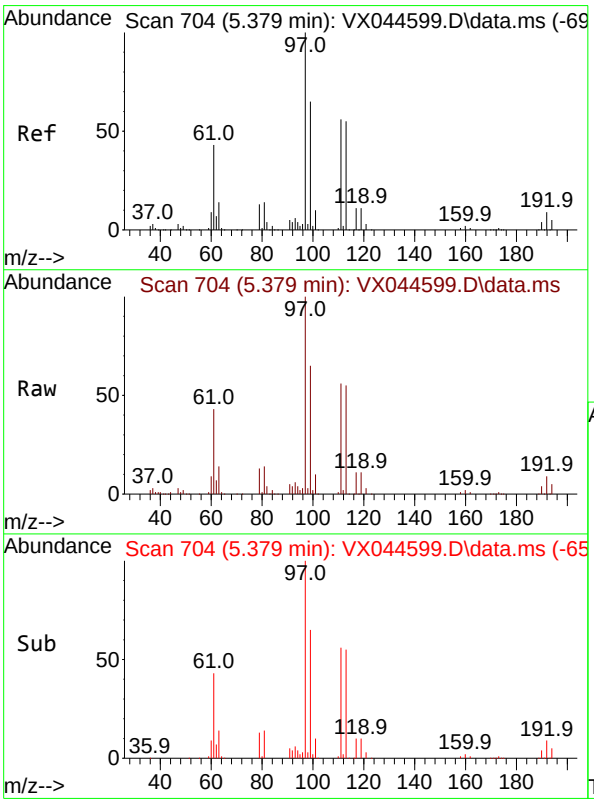
#31
Cyclohexane
Concen: 52.061 ug/l
RT: 5.458 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 56 Resp: 165559

Ion	Ratio	Lower	Upper
56	100		
69	27.8	22.2	33.4
84	83.3	66.6	100.0

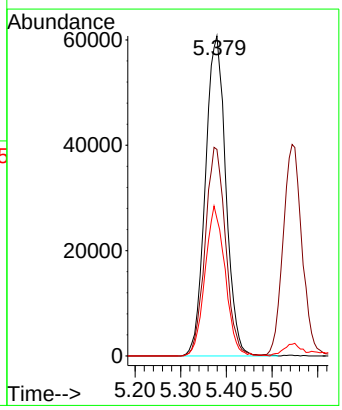


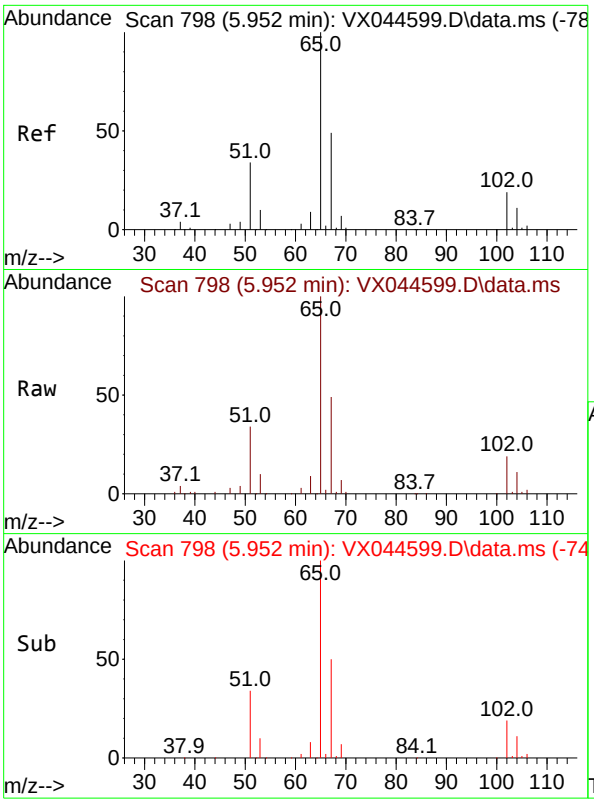


#32
1,1,1-Trichloroethane
Concen: 53.743 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 97 Resp: 188854

Ion	Ratio	Lower	Upper
97	100		
99	65.1	52.1	78.1
61	46.0	36.8	55.2



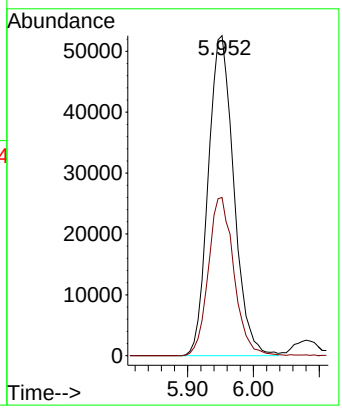


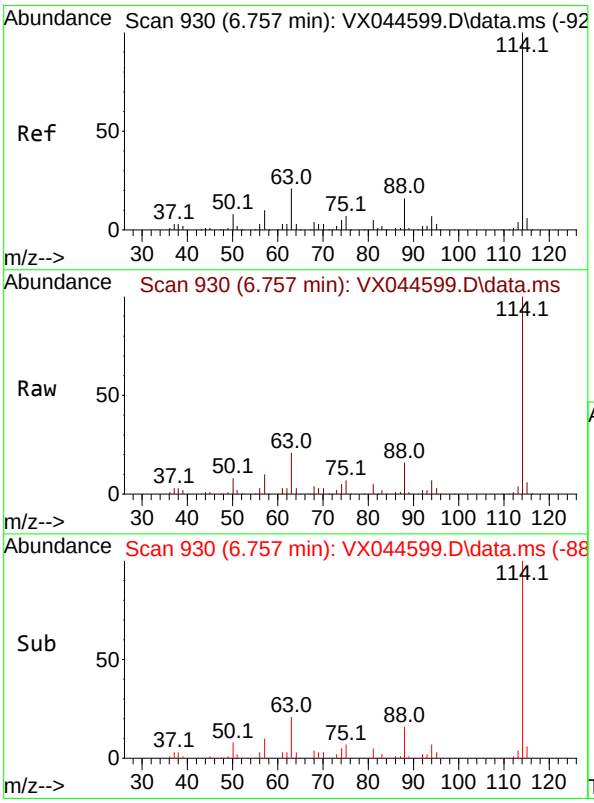
#33
1,2-Dichloroethane-d4
Concen: 50.681 ug/l
RT: 5.952 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 65 Resp: 142022

Ion	Ratio	Lower	Upper
65	100		
67	49.5	0.0	99.0

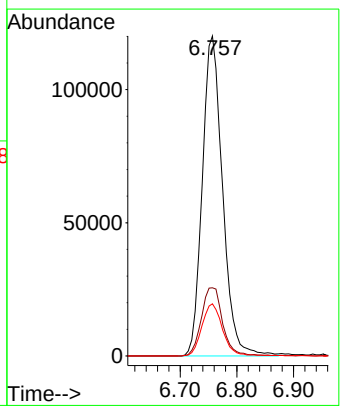


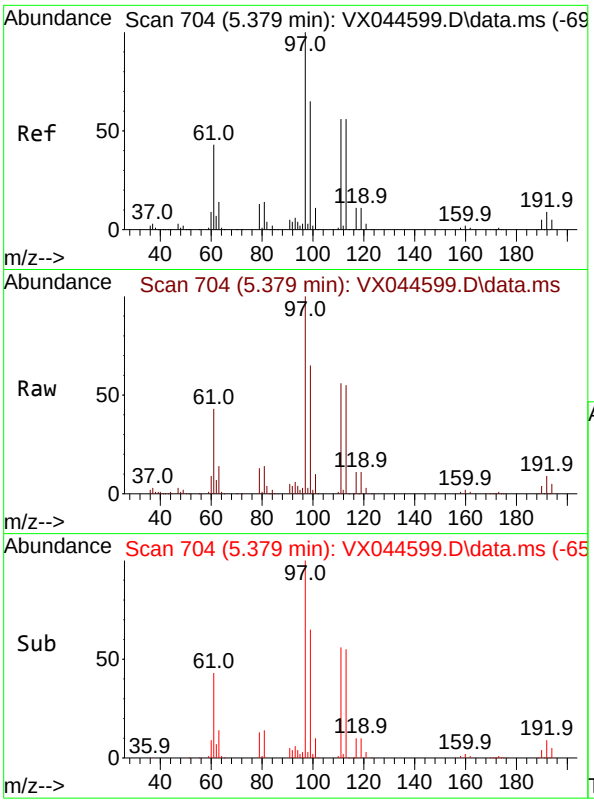


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion:114 Resp: 298796

Ion	Ratio	Lower	Upper
114	100		
63	21.3	0.0	42.6
88	16.3	0.0	32.6



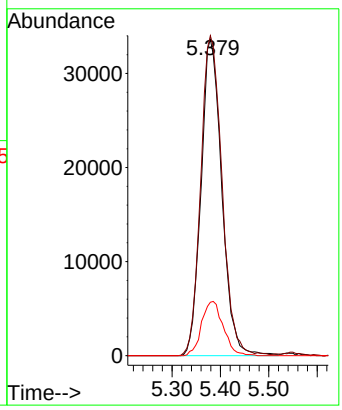


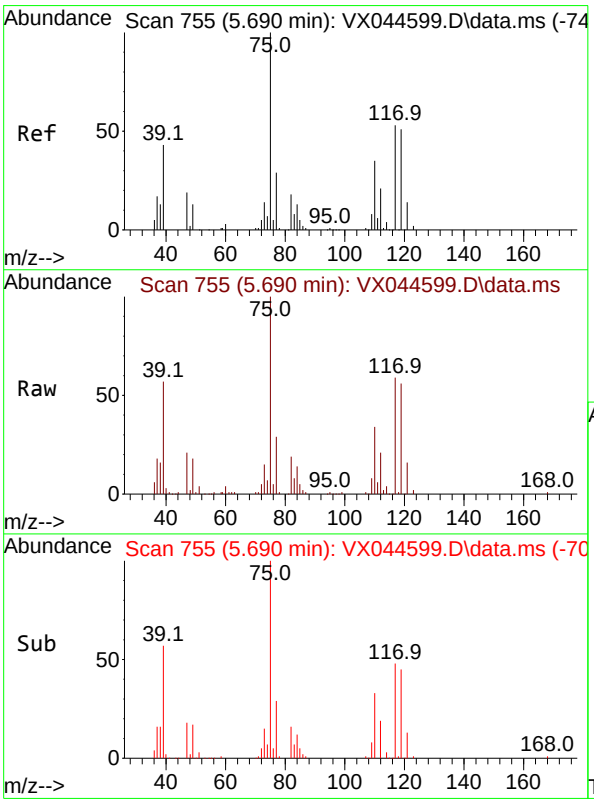
#35
Dibromofluoromethane
Concen: 48.890 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:113 Resp: 100169

Ion	Ratio	Lower	Upper
113	100		
111	104.1	83.3	124.9
192	17.9	14.3	21.5

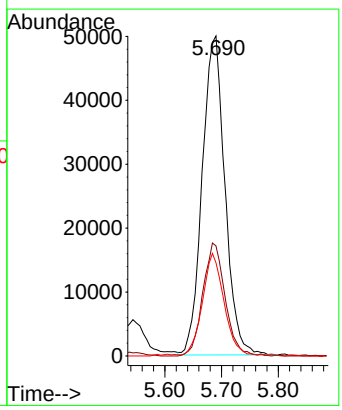


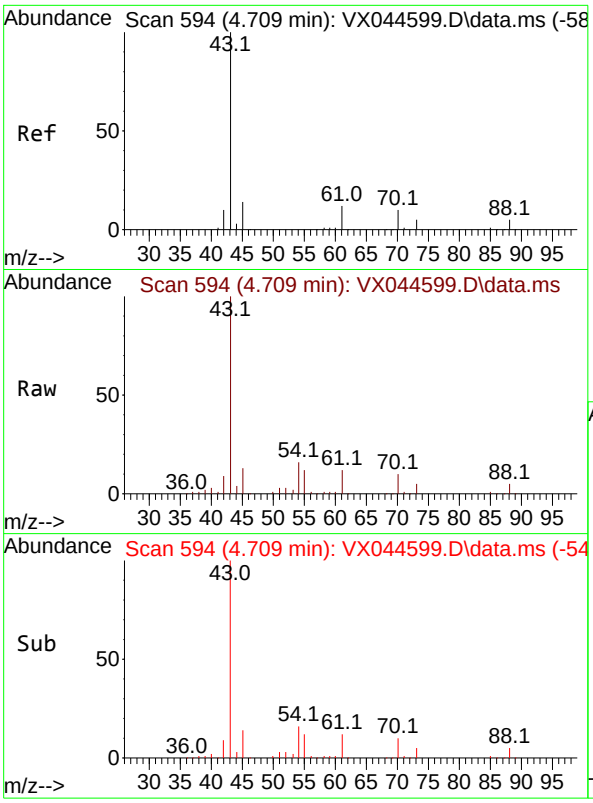


#36
1,1-Dichloropropene
Concen: 52.511 ug/l
RT: 5.690 min Scan# 755
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 75 Resp: 139122

Ion	Ratio	Lower	Upper
75	100		
110	34.6	17.3	51.9
77	30.9	24.7	37.1



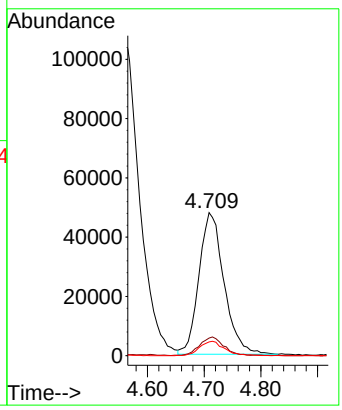


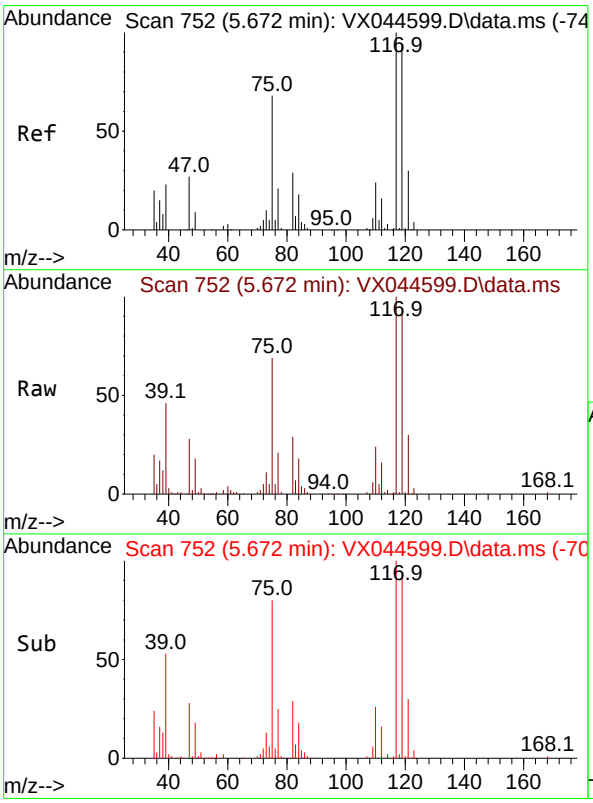
#37
Ethyl Acetate
Concen: 54.207 ug/l
RT: 4.709 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 146801

Ion	Ratio	Lower	Upper
43	100		
61	12.4	9.9	14.9
70	10.0	8.0	12.0

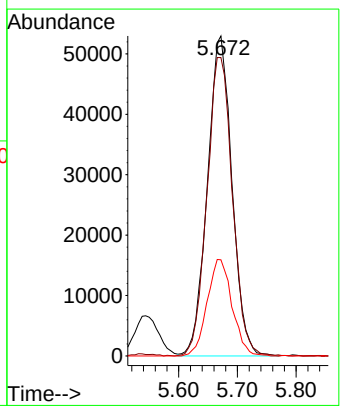


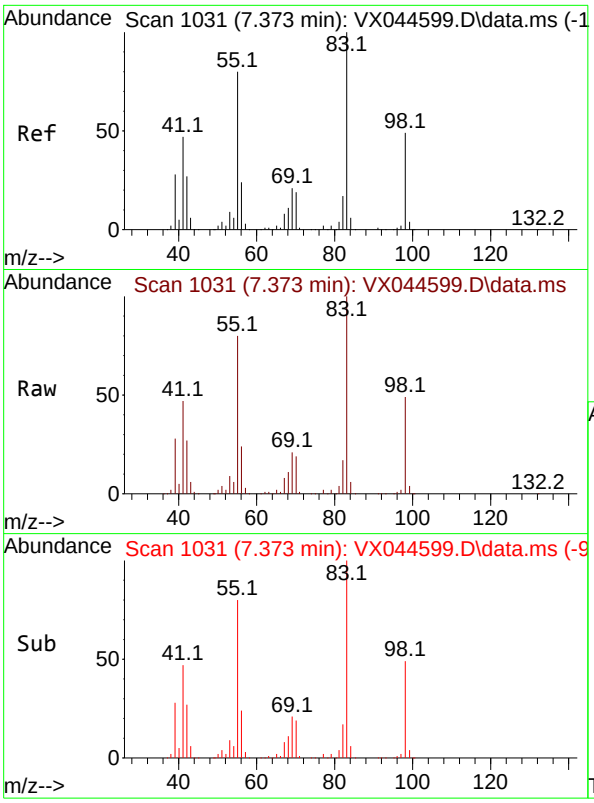


#38
Carbon Tetrachloride
Concen: 52.418 ug/l
RT: 5.672 min Scan# 752
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion:117 Resp: 154084

Ion	Ratio	Lower	Upper
117	100		
119	93.1	74.5	111.7
121	30.1	24.1	36.1



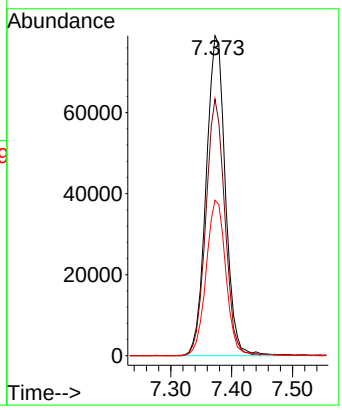


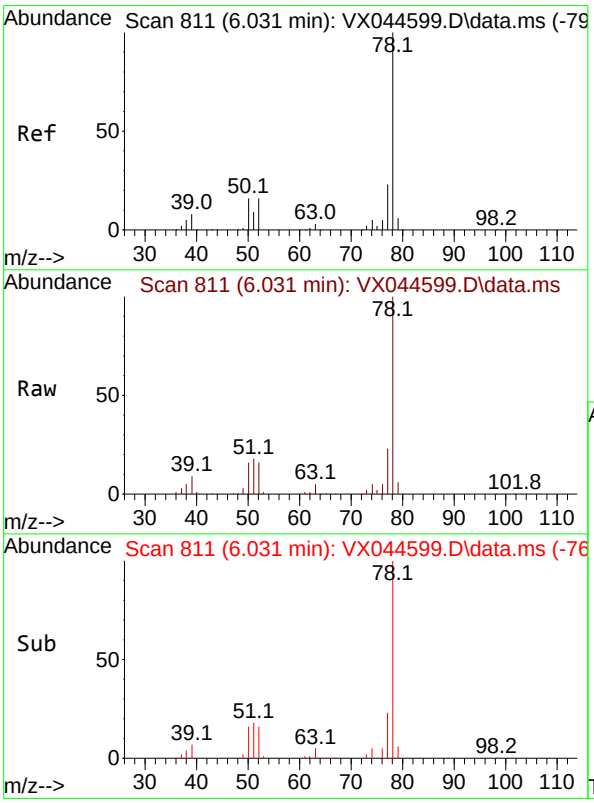
#39
Methylcyclohexane
Concen: 51.250 ug/l
RT: 7.373 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 83 Resp: 173252

Ion	Ratio	Lower	Upper
83	100		
55	80.1	64.1	96.1
98	48.6	38.9	58.3

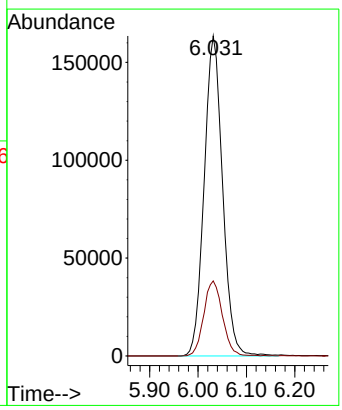


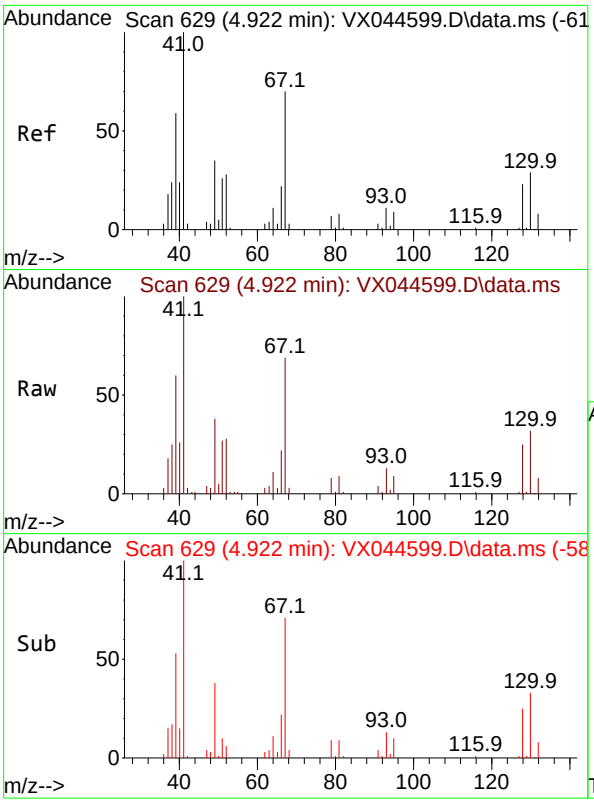


#40
Benzene
Concen: 51.878 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 78 Resp: 432755

Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.8	28.2



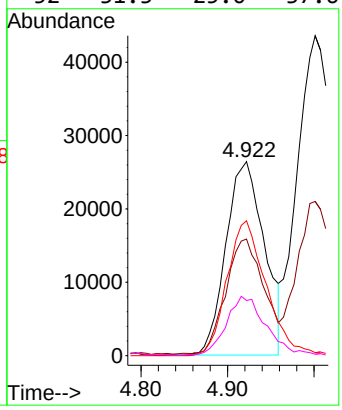


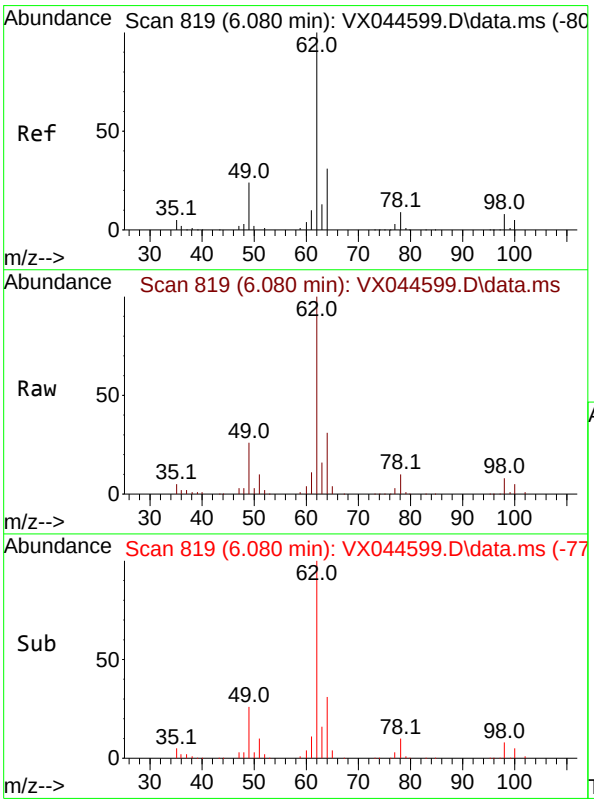
#41
Methacrylonitrile
Concen: 55.981 ug/l
RT: 4.922 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 41 Resp: 81440

Ion	Ratio	Lower	Upper
41	100		
39	58.7	47.0	70.4
67	71.8	57.4	86.2
52	31.3	25.0	37.6

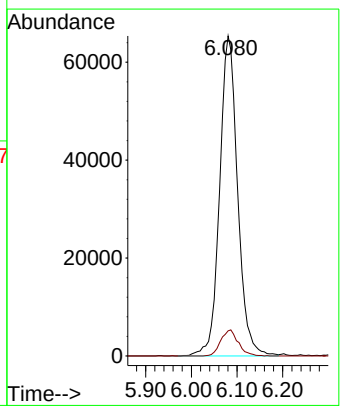


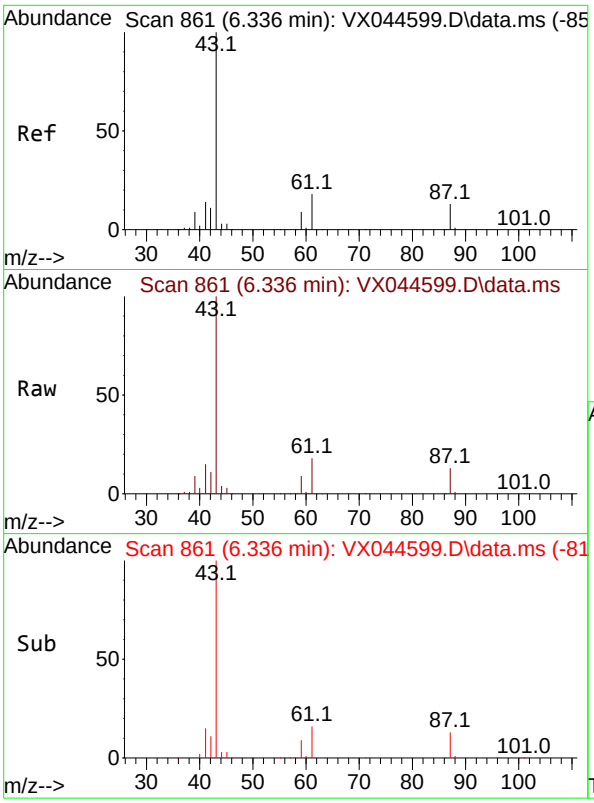


#42
1,2-Dichloroethane
Concen: 54.843 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 62 Resp: 178915

Ion	Ratio	Lower	Upper
62	100		
98	7.9	0.0	15.8



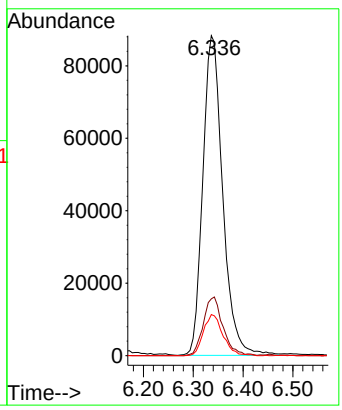


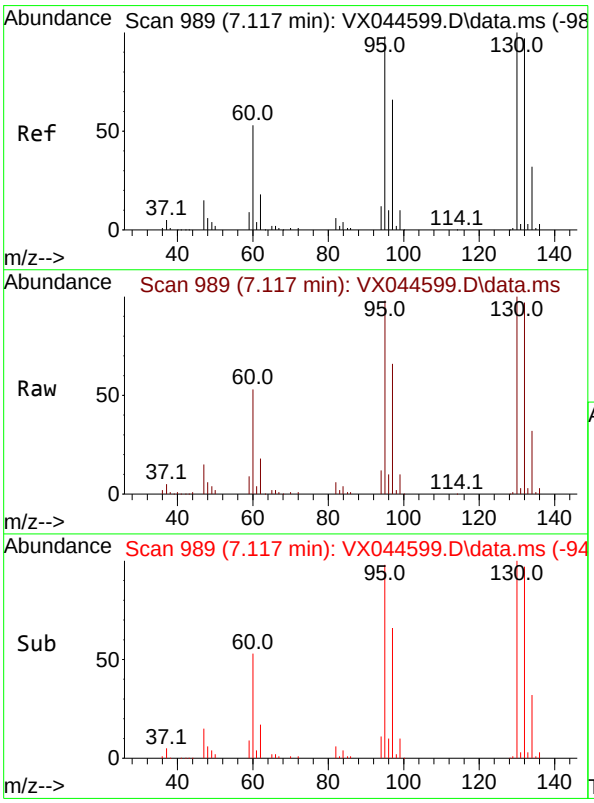
#43
Isopropyl Acetate
Concen: 54.708 ug/l
RT: 6.336 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 244614

Ion	Ratio	Lower	Upper
43	100		
61	18.1	14.5	21.7
87	12.6	10.1	15.1

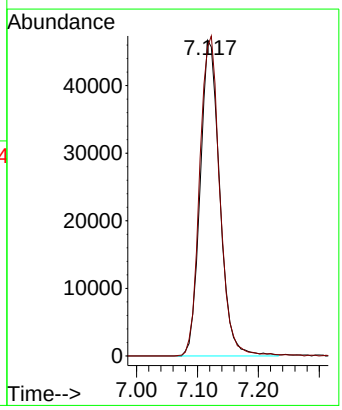


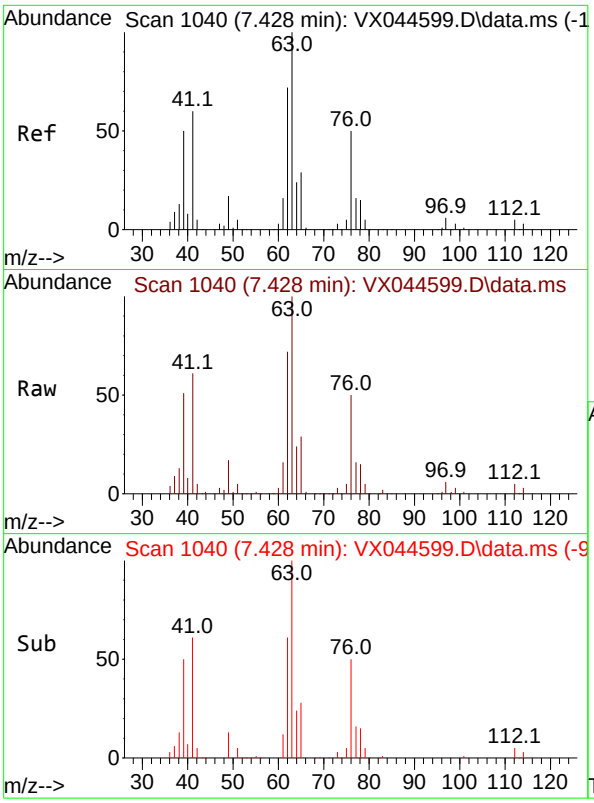


#44
Trichloroethene
Concen: 48.889 ug/l
RT: 7.117 min Scan# 989
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion:130 Resp: 104250

Ion	Ratio	Lower	Upper
130	100		
95	97.8	0.0	195.6



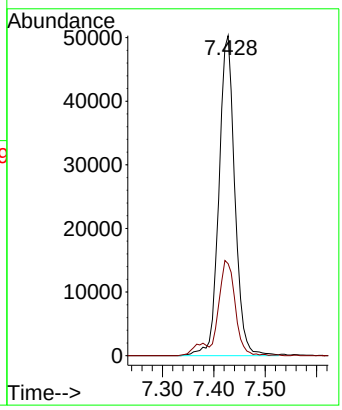


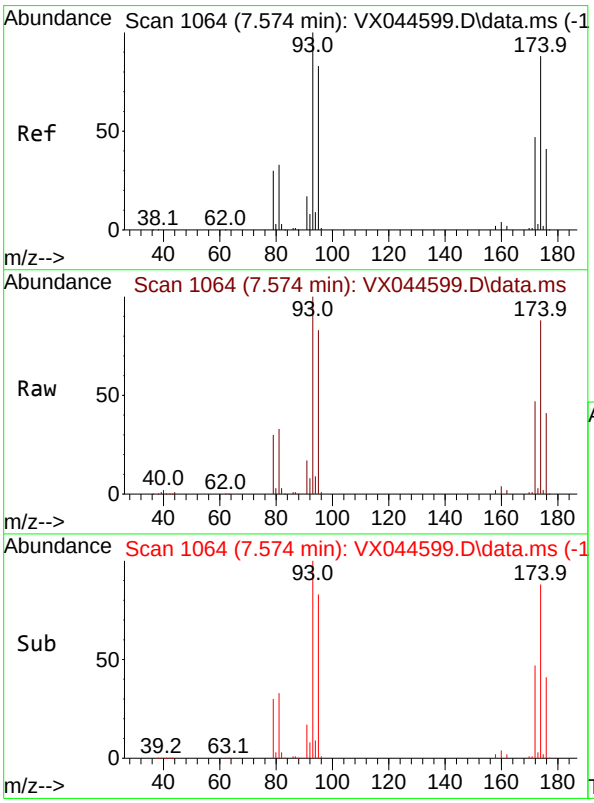
#45
1,2-Dichloropropane
Concen: 53.181 ug/l
RT: 7.428 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 63 Resp: 108161

Ion	Ratio	Lower	Upper
63	100		
65	28.7	23.0	34.4

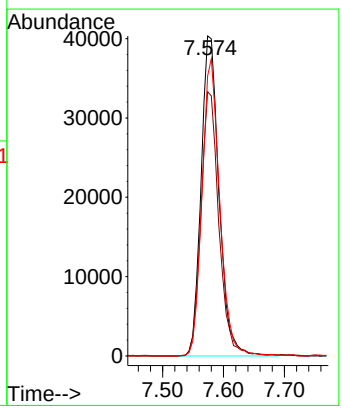


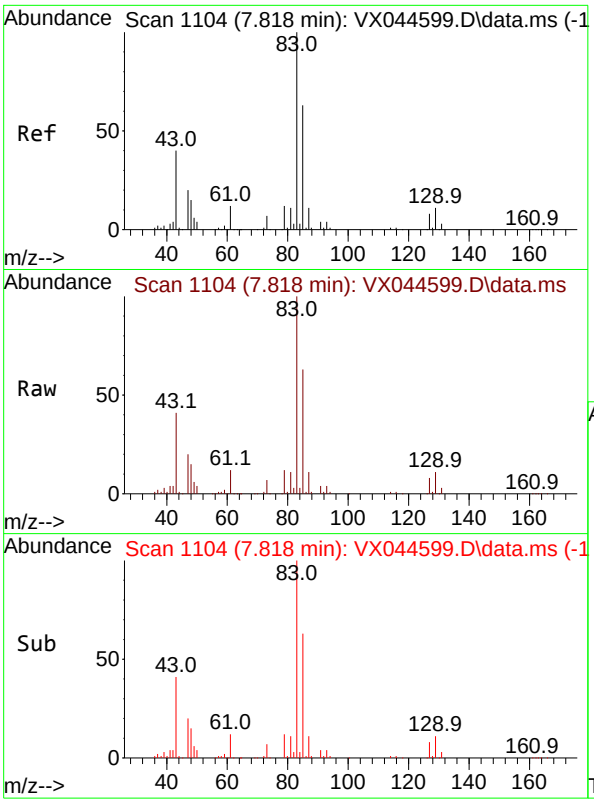


#46
Dibromomethane
Concen: 52.214 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 93 Resp: 82588

Ion	Ratio	Lower	Upper
93	100		
95	82.2	65.8	98.6
174	91.7	73.4	110.0



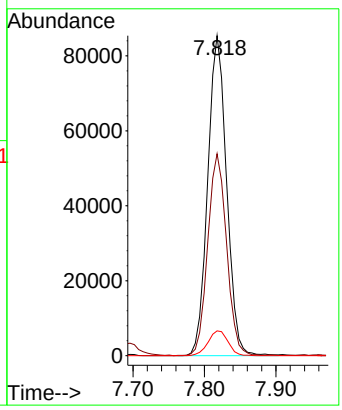


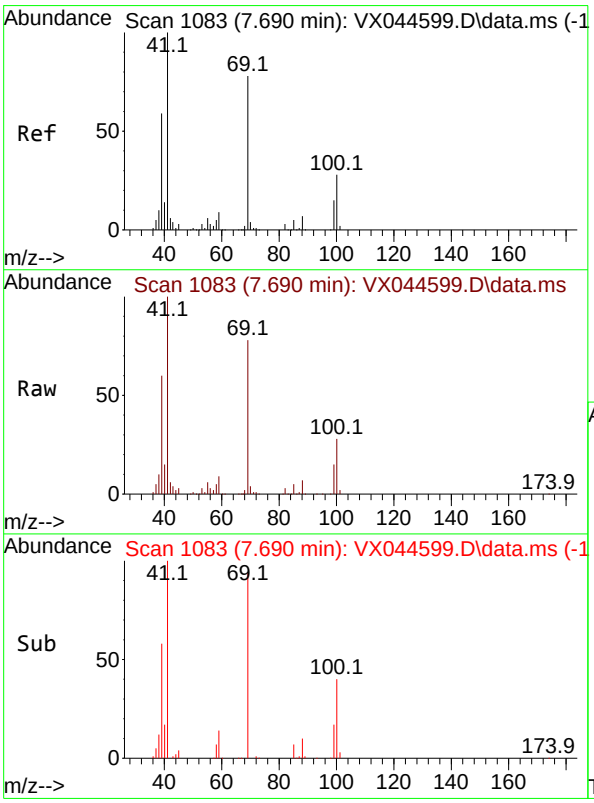
#47
Bromodichloromethane
Concen: 54.442 ug/l
RT: 7.818 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 83 Resp: 156703

Ion	Ratio	Lower	Upper
83	100		
85	63.0	50.4	75.6
127	7.8	6.2	9.4

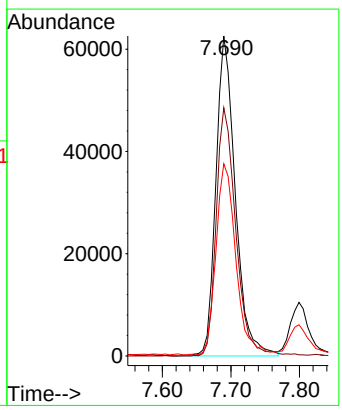


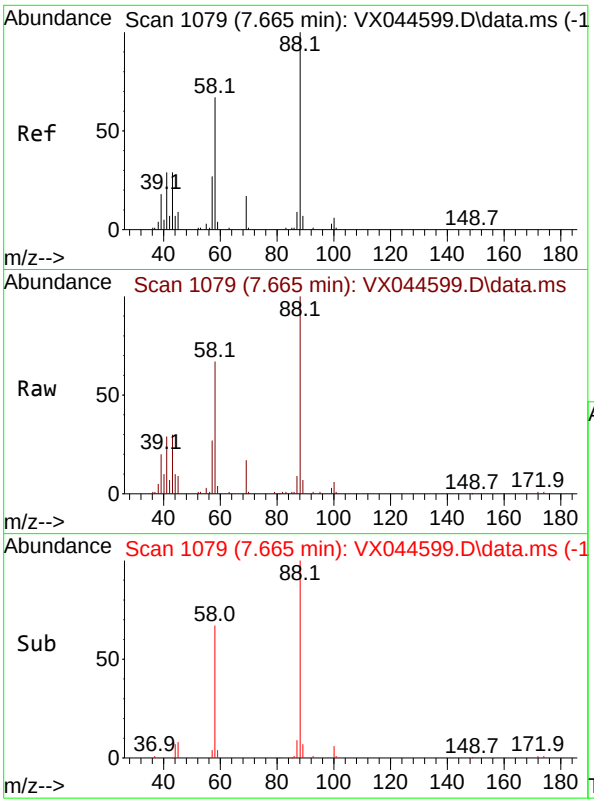


#48
Methyl methacrylate
Concen: 57.554 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 41 Resp: 122740

Ion	Ratio	Lower	Upper
41	100		
69	78.6	62.9	94.3
39	61.1	48.9	73.3



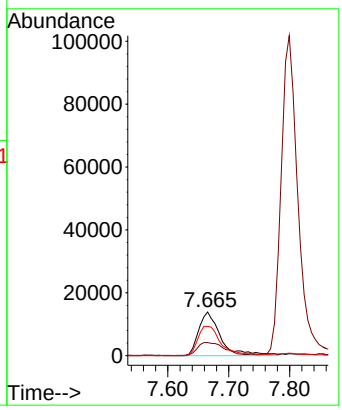


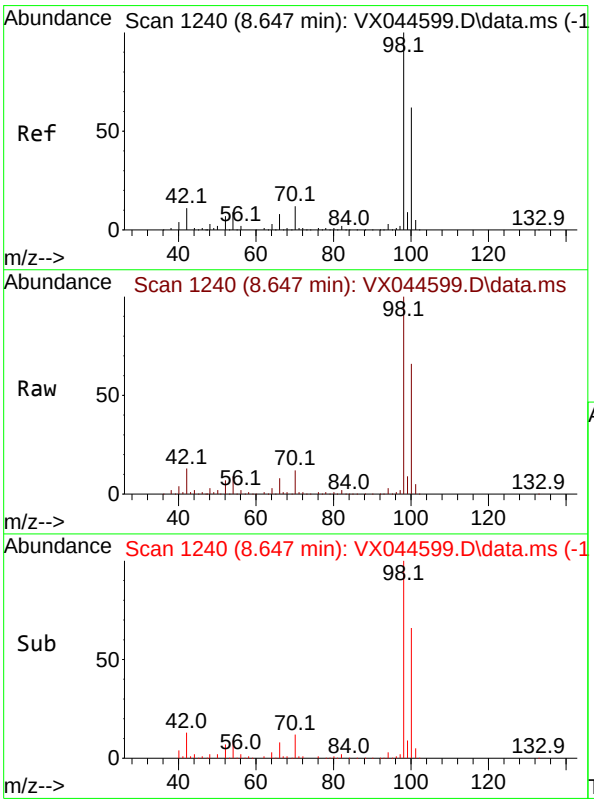
#49
1,4-Dioxane
Concen: 1114.222 ug/l
RT: 7.665 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 88 Resp: 34918

Ion	Ratio	Lower	Upper
88	100		
43	36.9	29.5	44.3
58	70.4	56.3	84.5

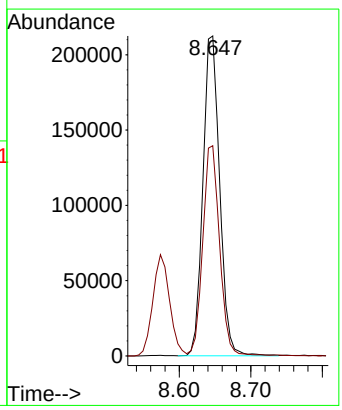


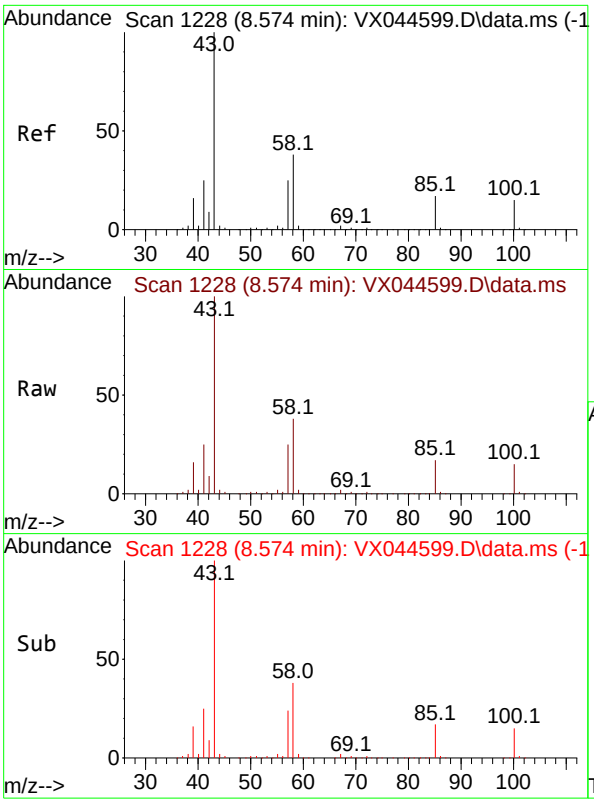


#50
Toluene-d8
Concen: 49.357 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 98 Resp: 345428

Ion	Ratio	Lower	Upper
98	100		
100	65.6	52.5	78.7



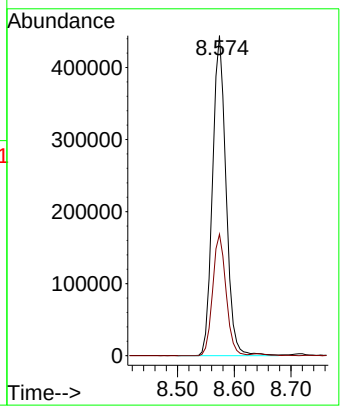


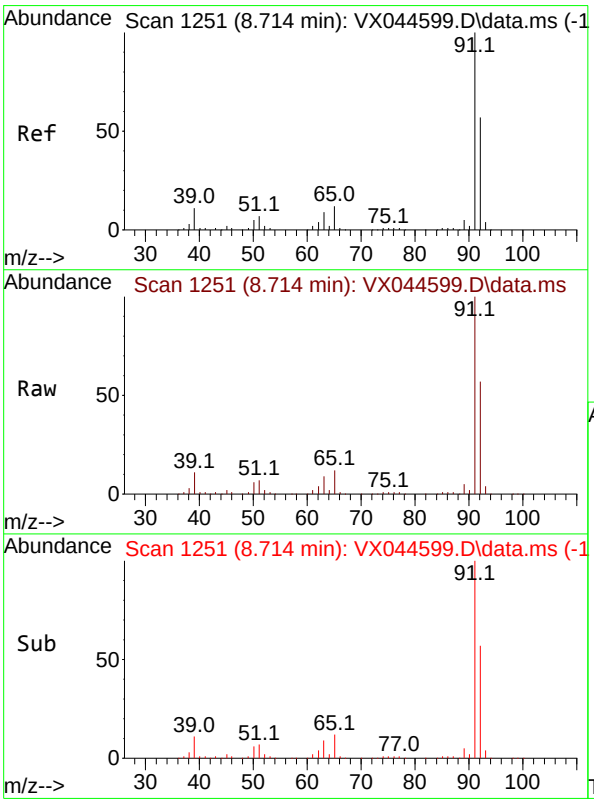
#51
4-Methyl-2-Pentanone
Concen: 280.449 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 733011

Ion	Ratio	Lower	Upper
43	100		
58	37.5	30.0	45.0

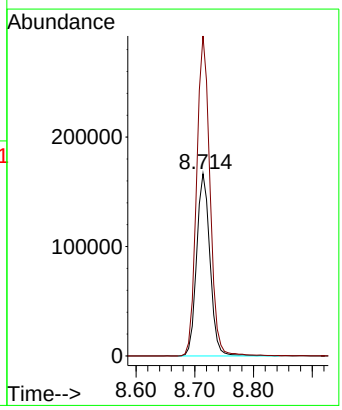


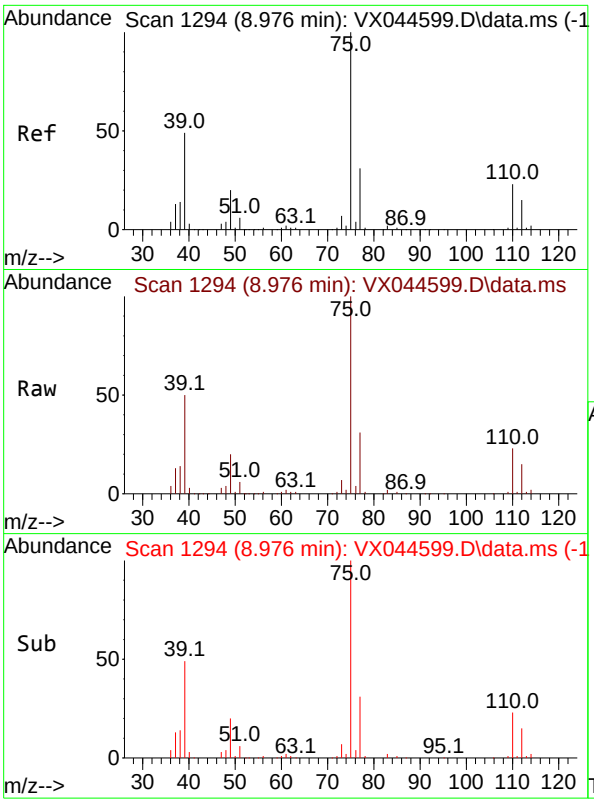


#52
Toluene
Concen: 52.133 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 92 Resp: 262398

Ion	Ratio	Lower	Upper
92	100		
91	175.7	140.6	210.8



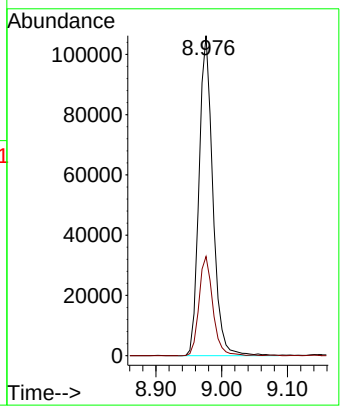


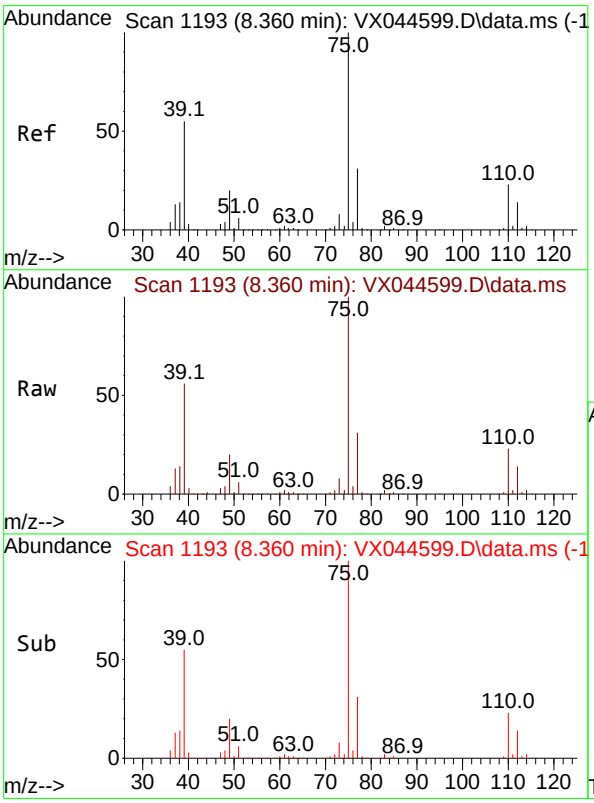
#53
t-1,3-Dichloropropene
Concen: 56.347 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 75 Resp: 155029

Ion	Ratio	Lower	Upper
75	100		
77	31.0	24.8	37.2

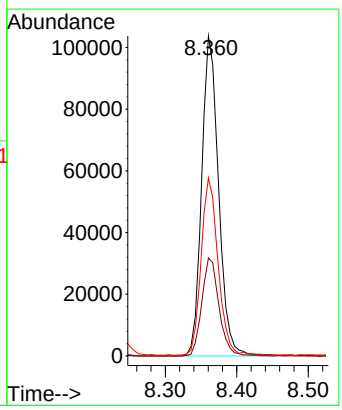


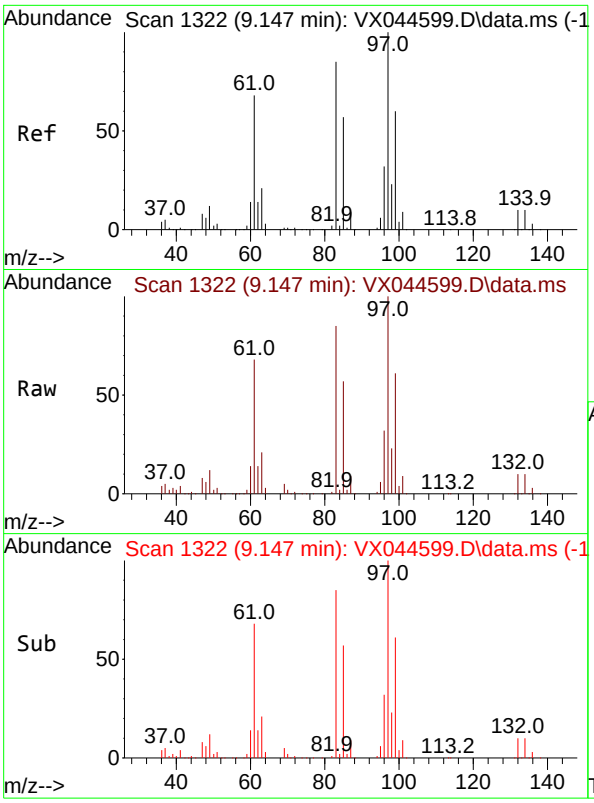


#54
cis-1,3-Dichloropropene
Concen: 55.104 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 75 Resp: 170387

Ion	Ratio	Lower	Upper
75	100		
77	30.6	24.5	36.7
39	55.4	44.3	66.5



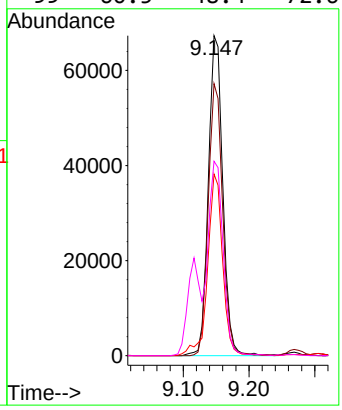


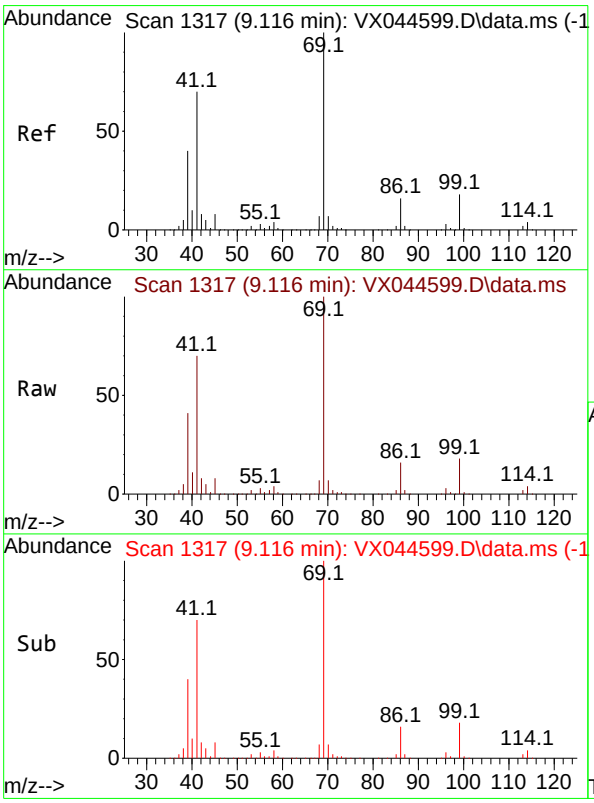
#55
1,1,2-Trichloroethane
Concen: 52.243 ug/l
RT: 9.147 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 97 Resp: 103084

Ion	Ratio	Lower	Upper
97	100		
83	85.0	68.0	102.0
85	56.7	45.4	68.0
99	60.5	48.4	72.6

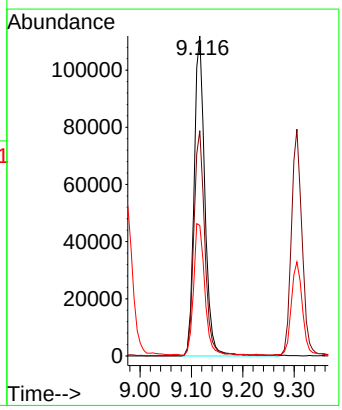


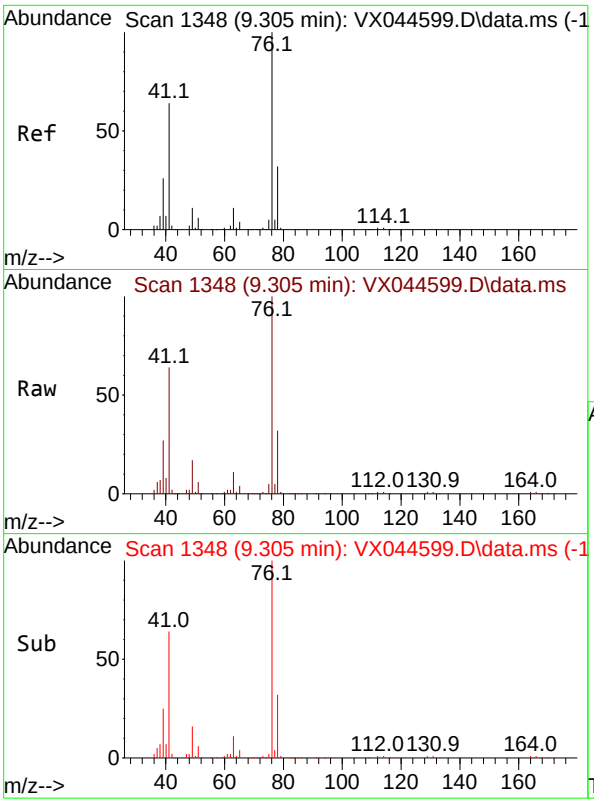


#56
Ethyl methacrylate
Concen: 56.713 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 69 Resp: 162744

Ion	Ratio	Lower	Upper
69	100		
41	72.1	57.7	86.5
39	42.1	33.7	50.5



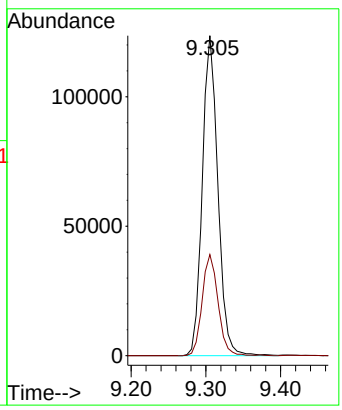


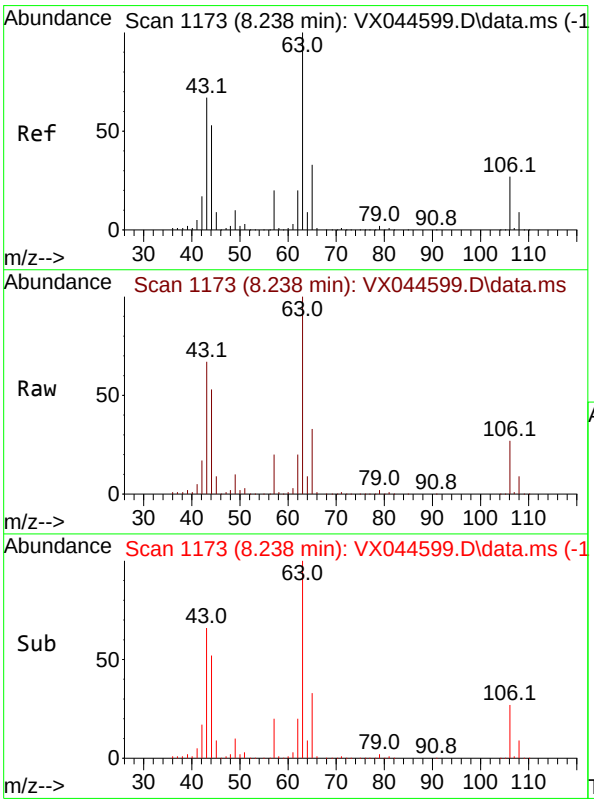
#57
1,3-Dichloropropane
Concen: 53.900 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 76 Resp: 178595

Ion	Ratio	Lower	Upper
76	100		
78	32.3	25.8	38.8

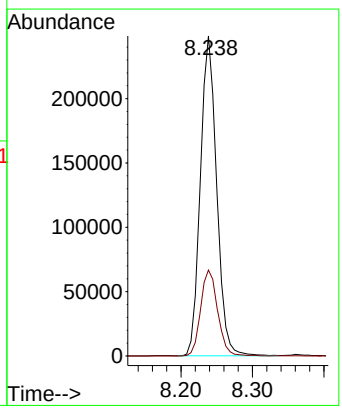


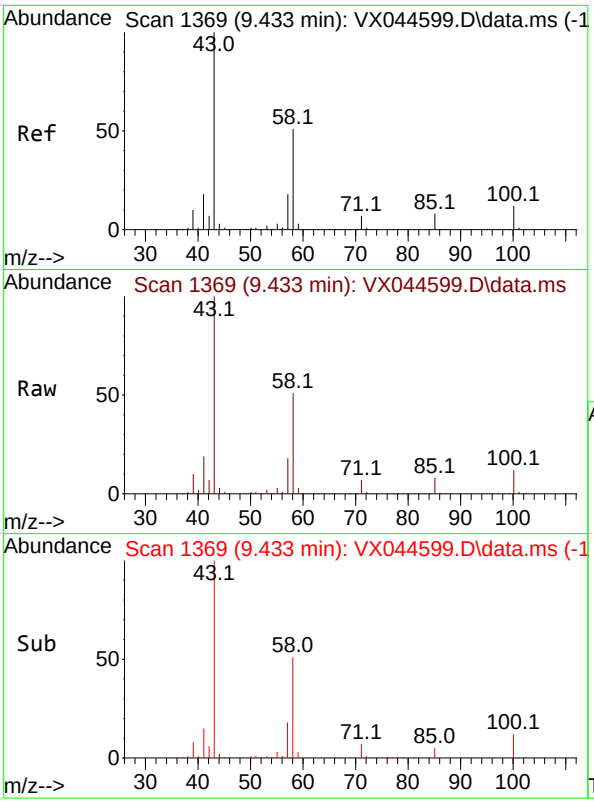


#58
2-Chloroethyl Vinyl ether
Concen: 276.185 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 63 Resp: 392900

Ion	Ratio	Lower	Upper
63	100		
106	28.0	22.4	33.6



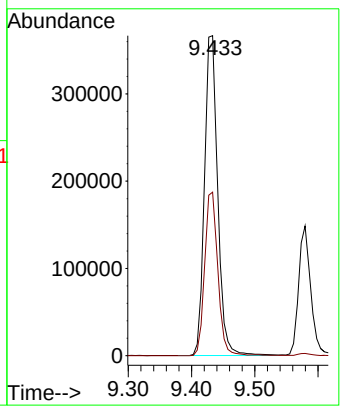


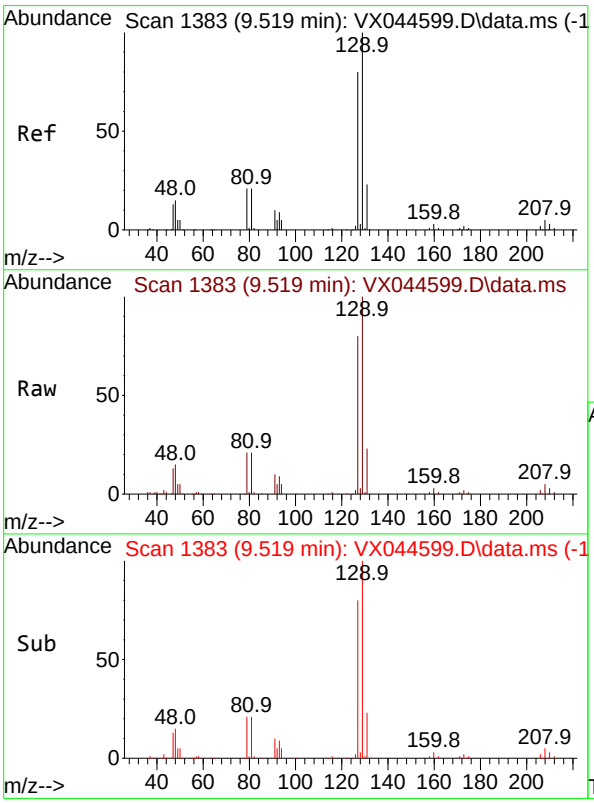
#59
2-Hexanone
Concen: 289.895 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 535861

Ion	Ratio	Lower	Upper
43	100		
58	50.9	25.4	76.4

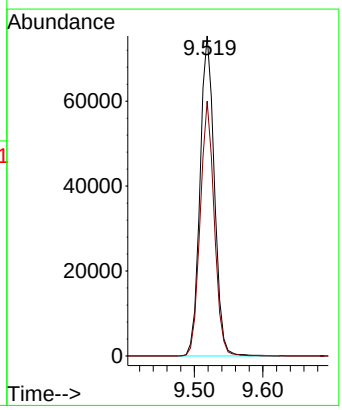


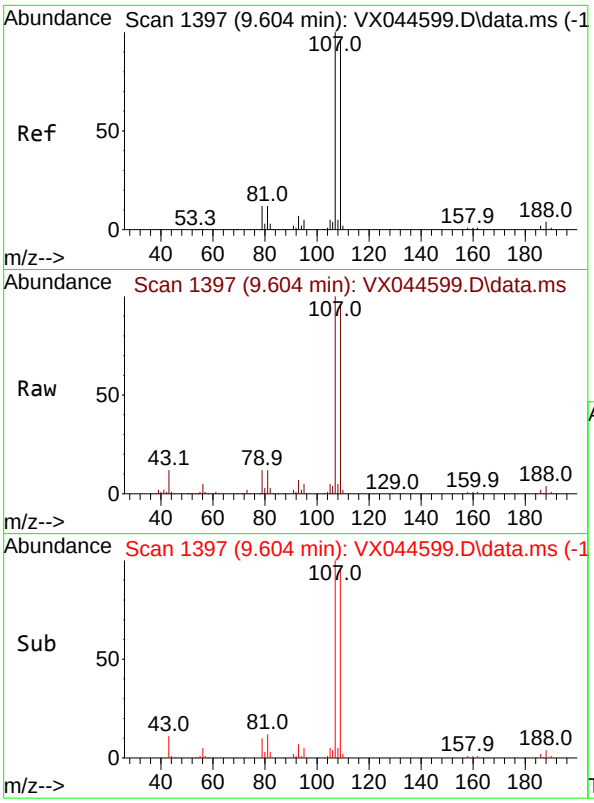


#60
Dibromochloromethane
Concen: 55.871 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion:129 Resp: 109924

Ion	Ratio	Lower	Upper
129	100		
127	77.8	38.9	116.7



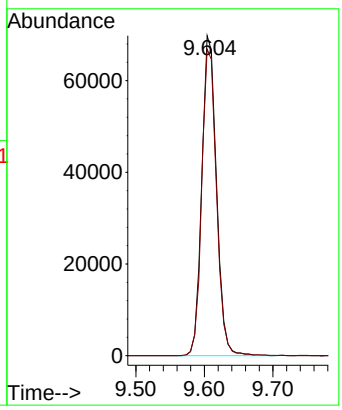


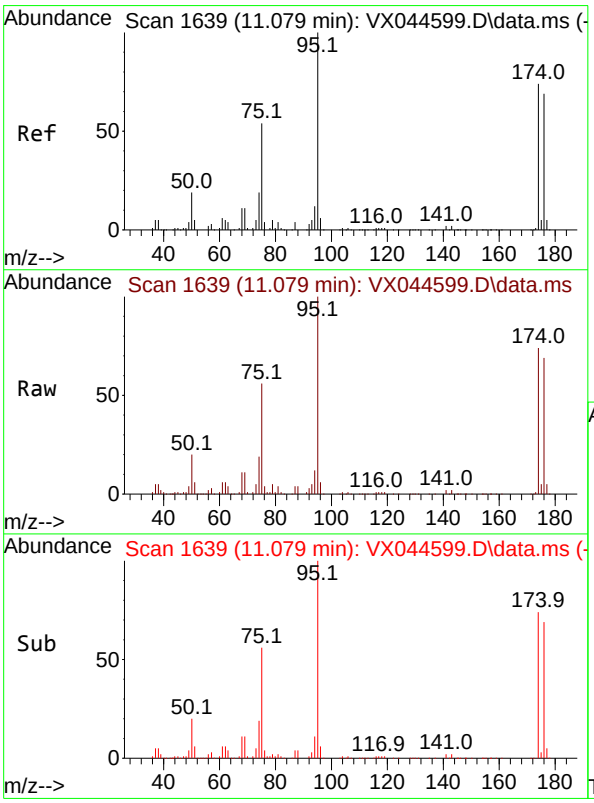
#61
1,2-Dibromoethane
Concen: 52.401 ug/l
RT: 9.604 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:107 Resp: 104426

Ion	Ratio	Lower	Upper
107	100		
109	95.9	76.7	115.1

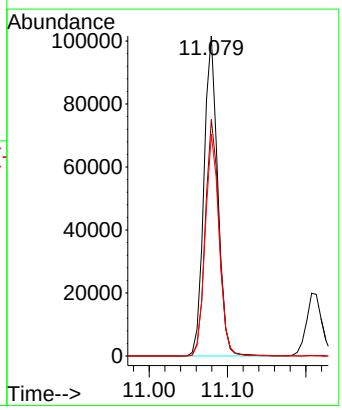


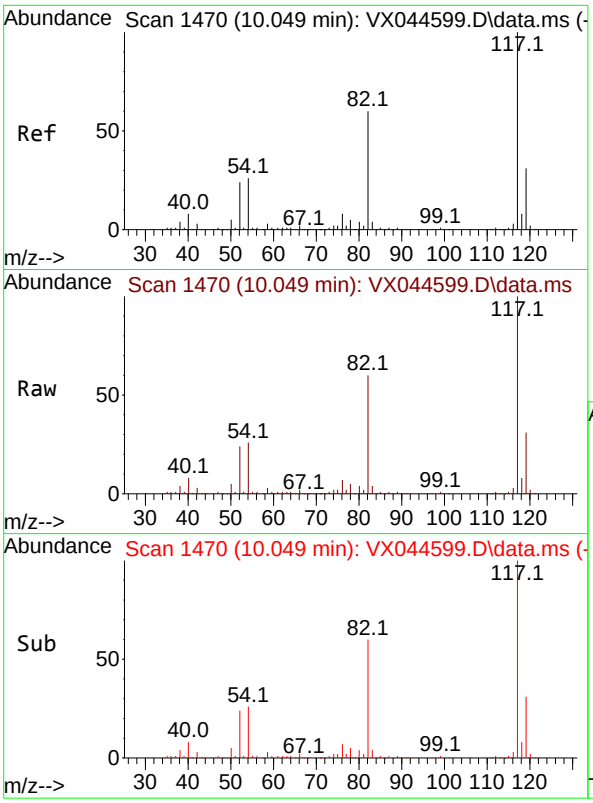


#62
4-Bromofluorobenzene
Concen: 50.167 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 95 Resp: 123925

Ion	Ratio	Lower	Upper
95	100		
174	74.4	0.0	148.8
176	69.9	0.0	139.8



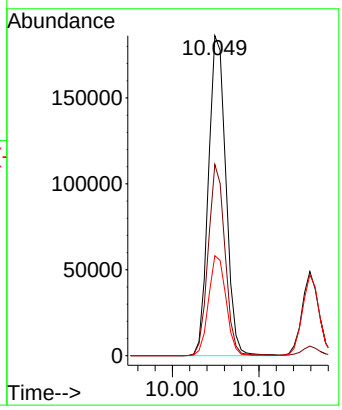


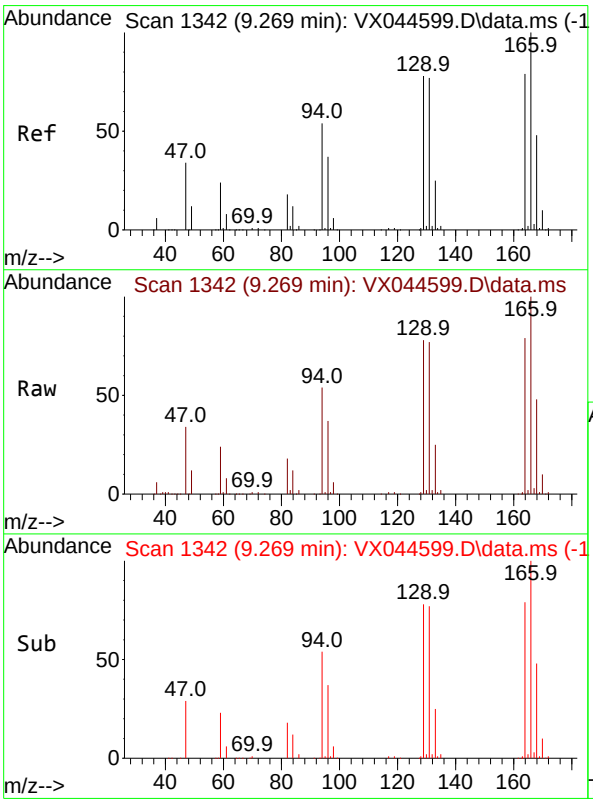
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:117 Resp: 260263

Ion	Ratio	Lower	Upper
117	100		
82	59.7	47.8	71.6
119	31.3	25.0	37.6

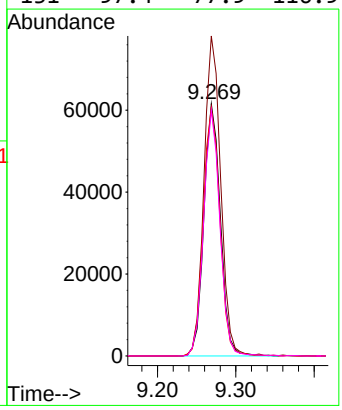


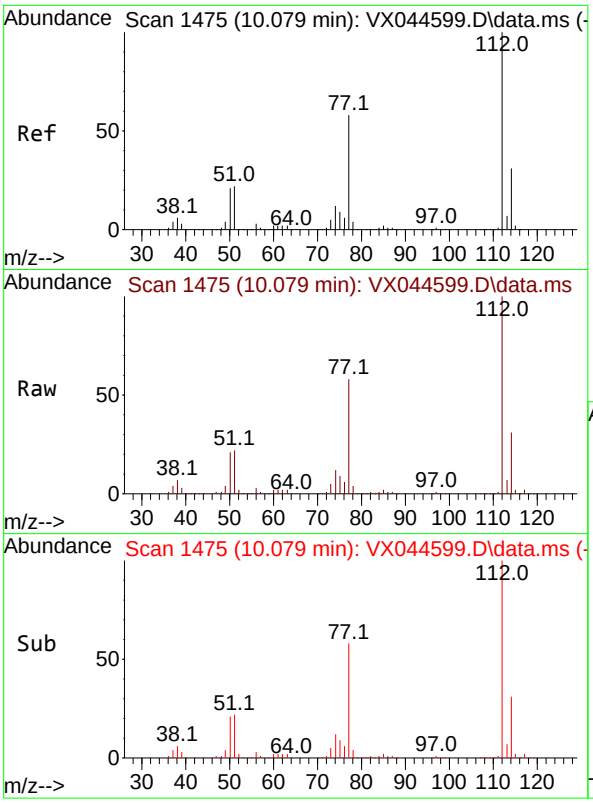


#64
Tetrachloroethene
Concen: 48.910 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion:164 Resp: 90002

Ion	Ratio	Lower	Upper
164	100		
166	126.9	101.5	152.3
129	98.6	78.9	118.3
131	97.4	77.9	116.9



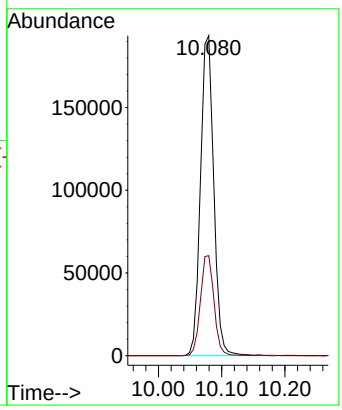


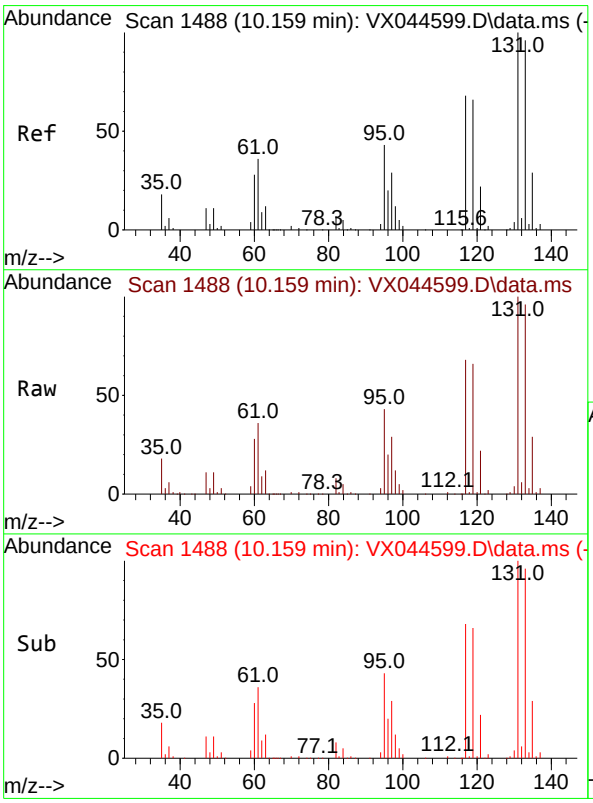
#65
Chlorobenzene
Concen: 51.250 ug/l
RT: 10.079 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:112 Resp: 283093

Ion	Ratio	Lower	Upper
112	100		
114	31.2	25.0	37.4

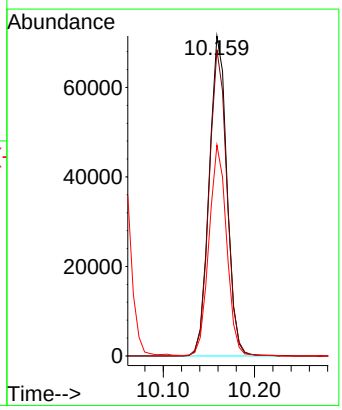


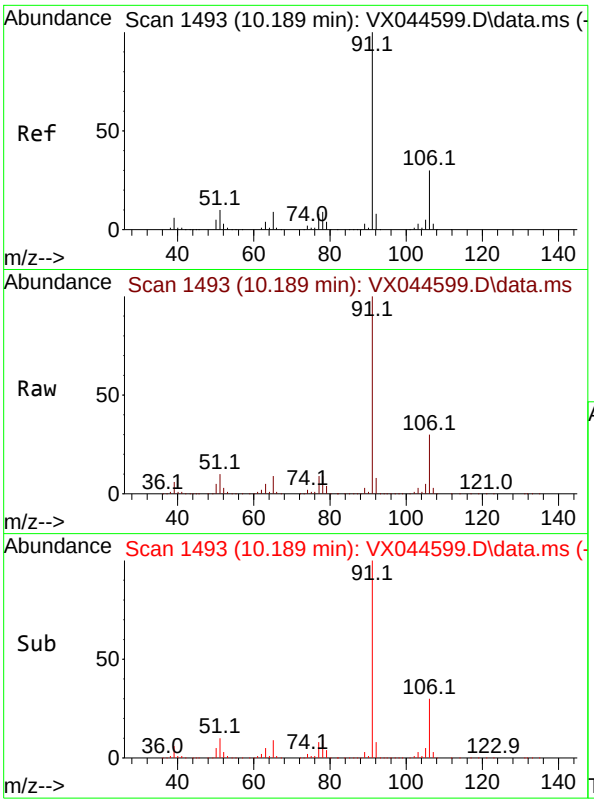


#66
1,1,1,2-Tetrachloroethane
Concen: 52.556 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion:131 Resp: 96419

Ion	Ratio	Lower	Upper
131	100		
133	96.0	48.0	144.0
119	65.6	32.8	98.4



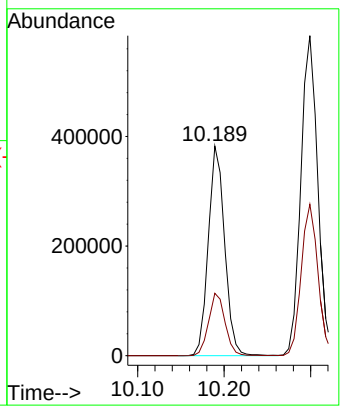


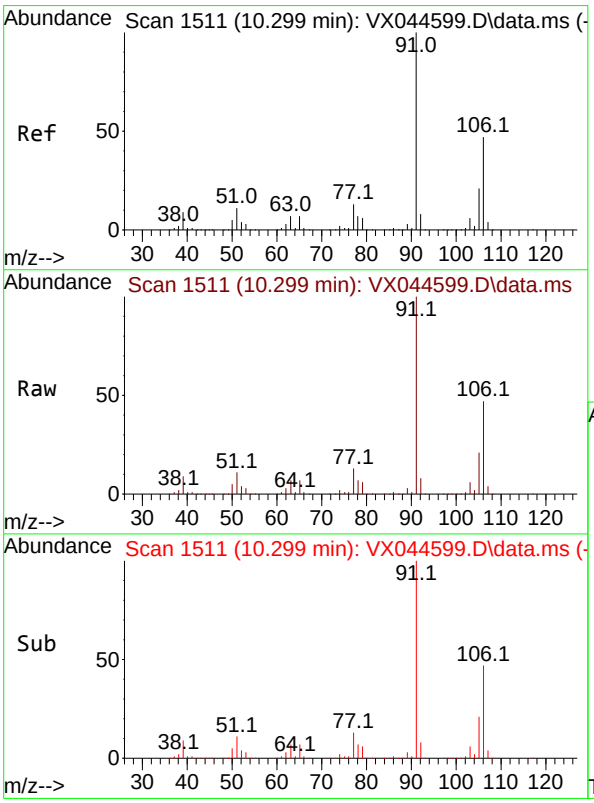
#67
Ethyl Benzene
Concen: 52.906 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 91 Resp: 501840

Ion	Ratio	Lower	Upper
91	100		
106	29.8	23.8	35.8

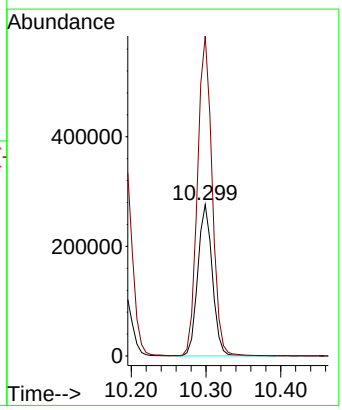


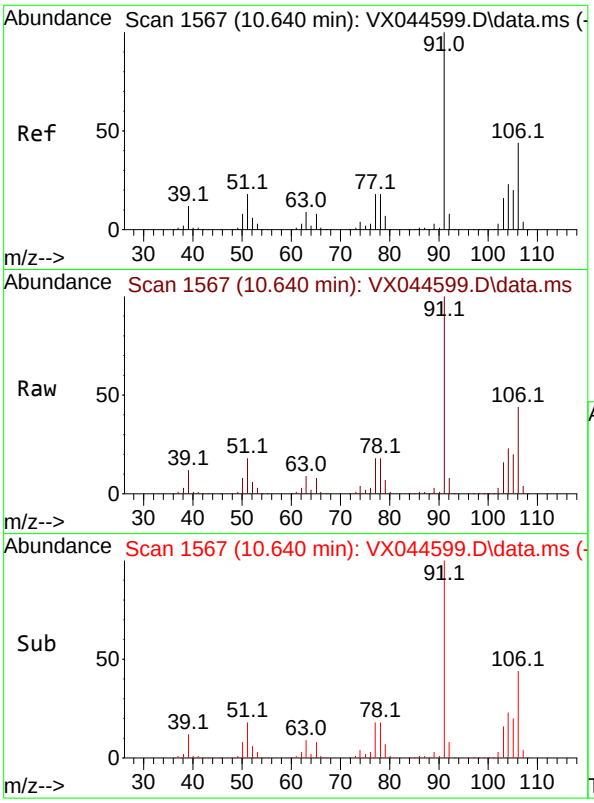


#68
m/p-Xylenes
Concen: 106.805 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion:106 Resp: 372279

Ion	Ratio	Lower	Upper
106	100		
91	213.0	170.4	255.6



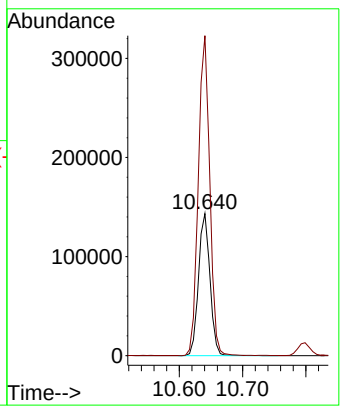


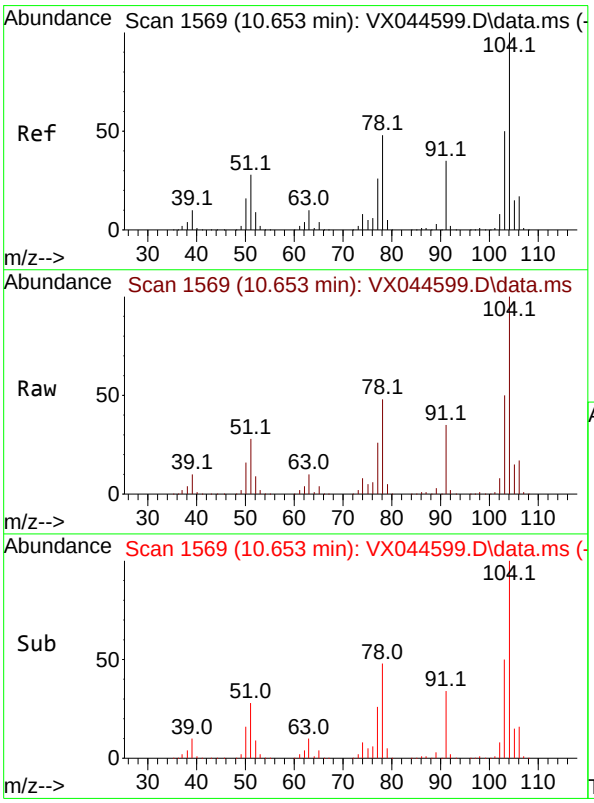
#69
o-Xylene
Concen: 51.512 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:106 Resp: 181228

Ion	Ratio	Lower	Upper
106	100		
91	224.5	112.3	336.8

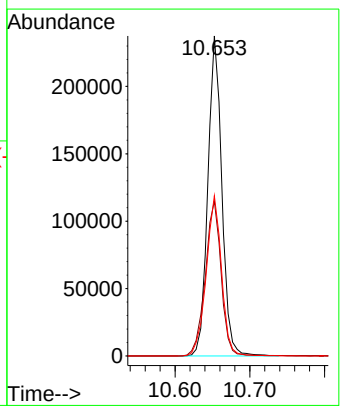


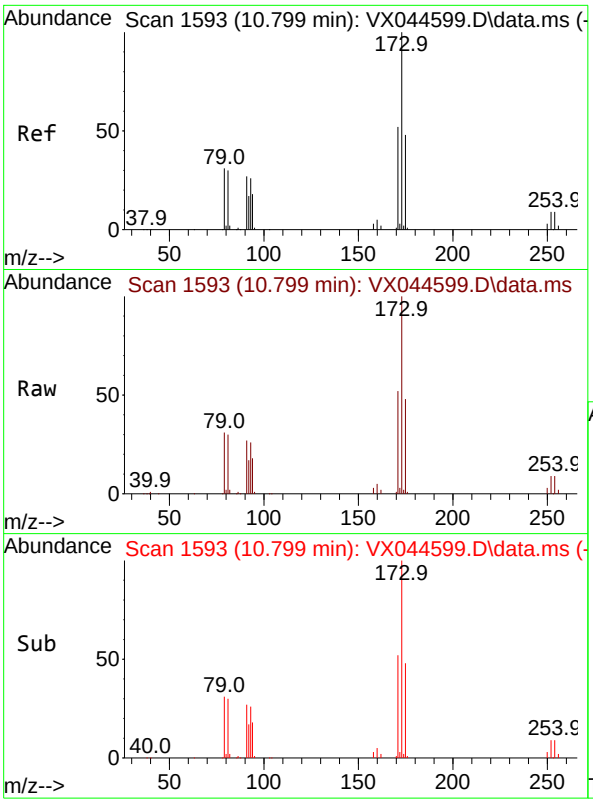


#70
Styrene
Concen: 54.919 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion:104 Resp: 309043

Ion	Ratio	Lower	Upper
104	100		
78	55.0	44.0	66.0
103	54.7	43.8	65.6



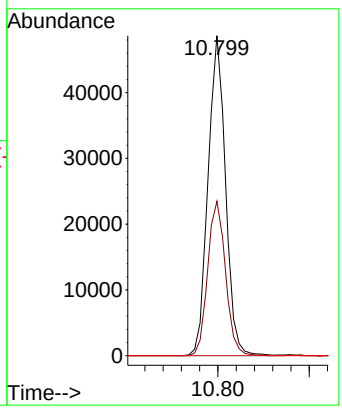


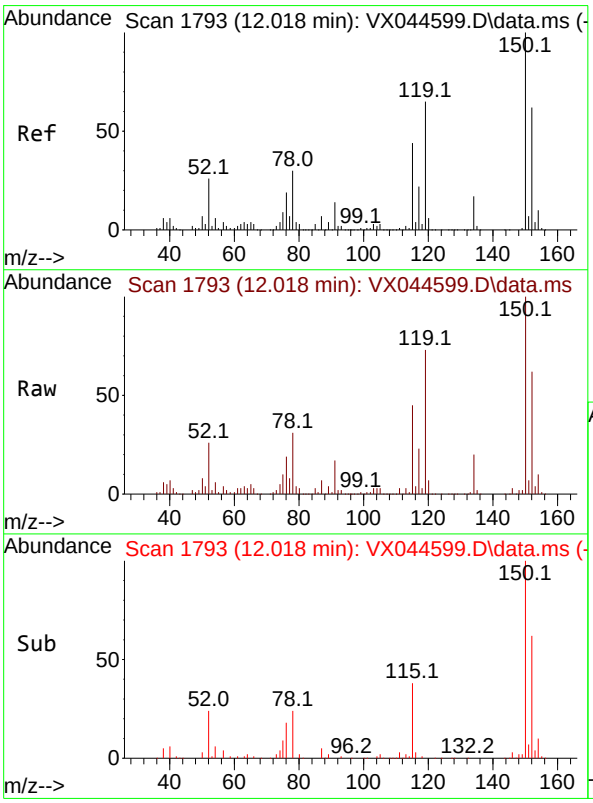
#71
Bromoform
Concen: 50.124 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:173 Resp: 64456

Ion	Ratio	Lower	Upper
173	100		
175	49.2	24.6	73.8
254	0.0	0.0	0.0

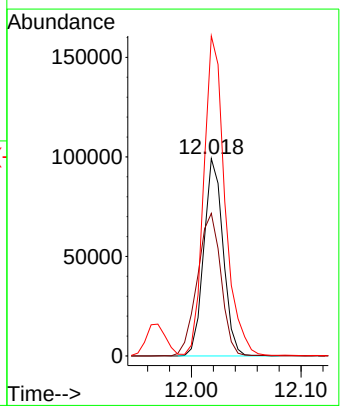


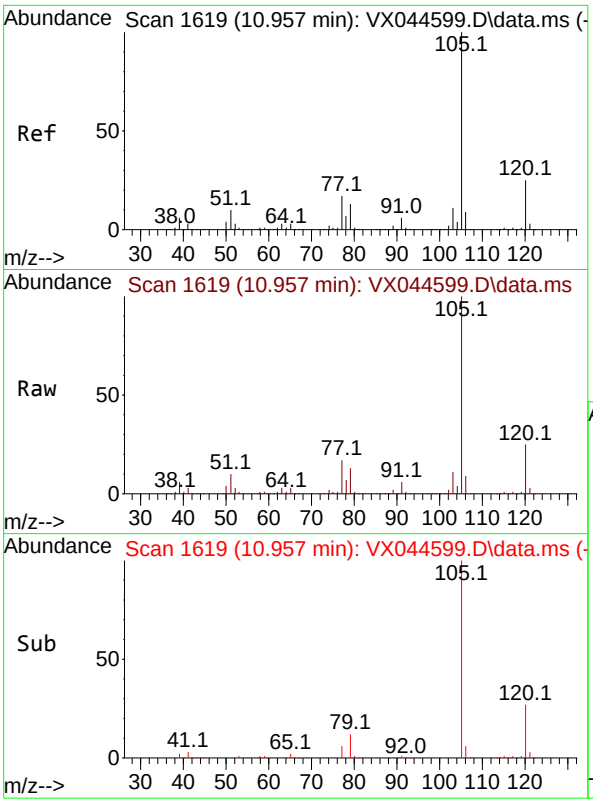


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion:152 Resp: 121154

Ion	Ratio	Lower	Upper
152	100		
115	88.7	44.4	133.1
150	177.5	0.0	355.0



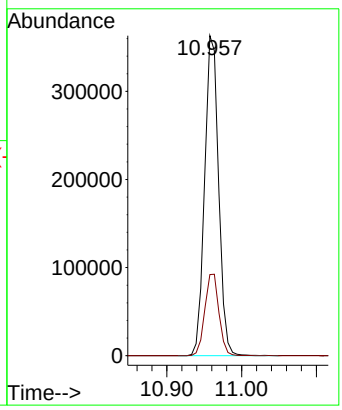


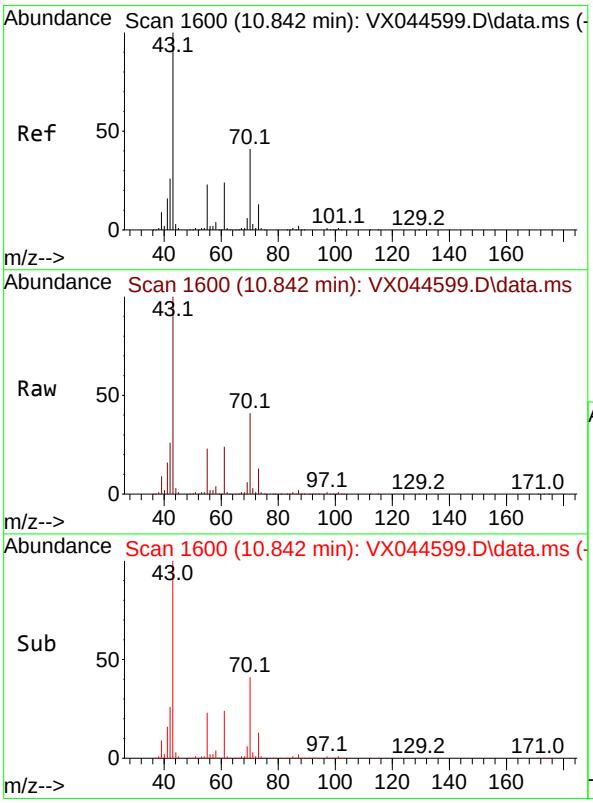
#73
Isopropylbenzene
Concen: 52.439 ug/l
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:105 Resp: 470691

Ion	Ratio	Lower	Upper
105	100		
120	25.9	13.0	38.9

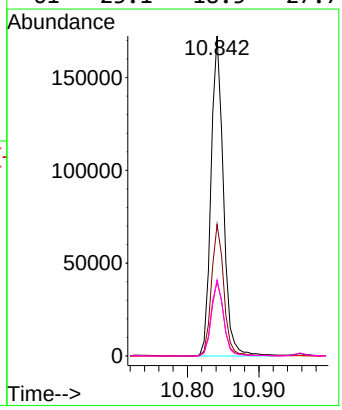


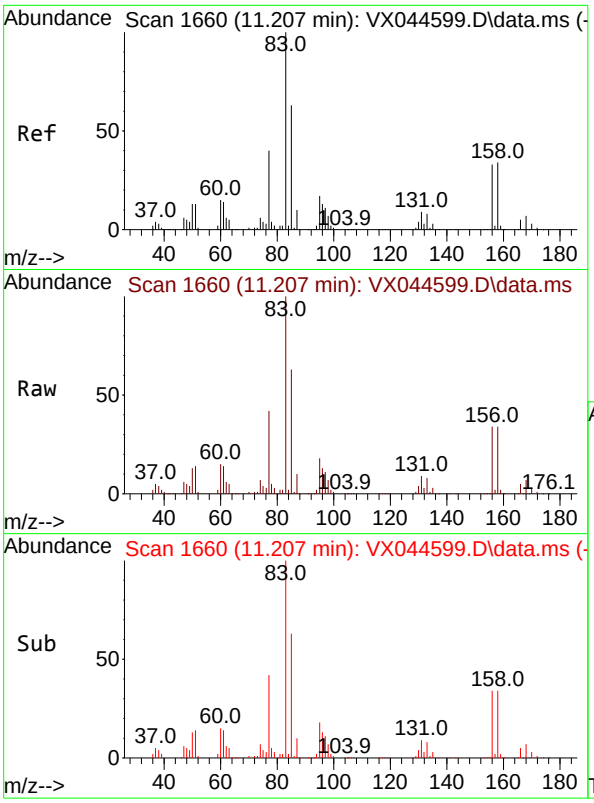


#74
N-amyl acetate
Concen: 56.857 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 43 Resp: 207077

Ion	Ratio	Lower	Upper
43	100		
70	41.1	32.9	49.3
55	23.8	19.0	28.6
61	23.1	18.5	27.7



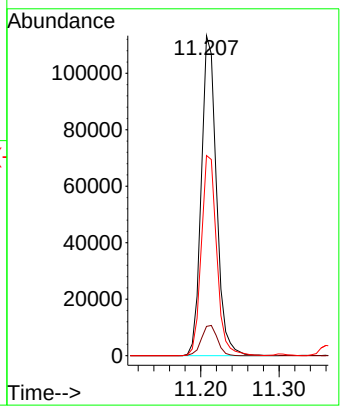


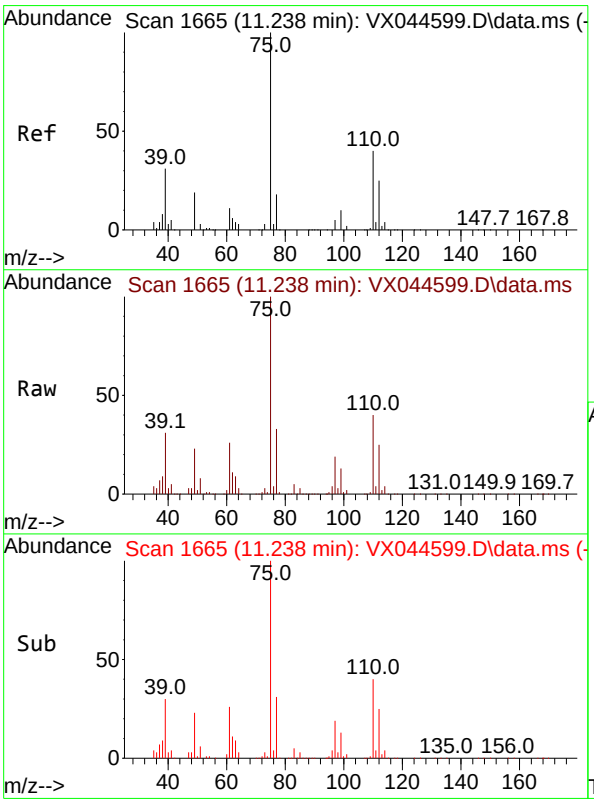
#75
1,1,2,2-Tetrachloroethane
Concen: 52.544 ug/l
RT: 11.207 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 83 Resp: 152021

Ion	Ratio	Lower	Upper
83	100		
131	10.0	5.0	15.0
85	63.7	31.9	95.5

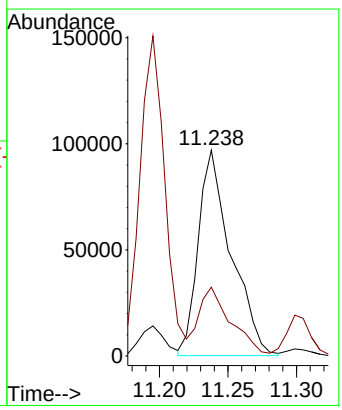


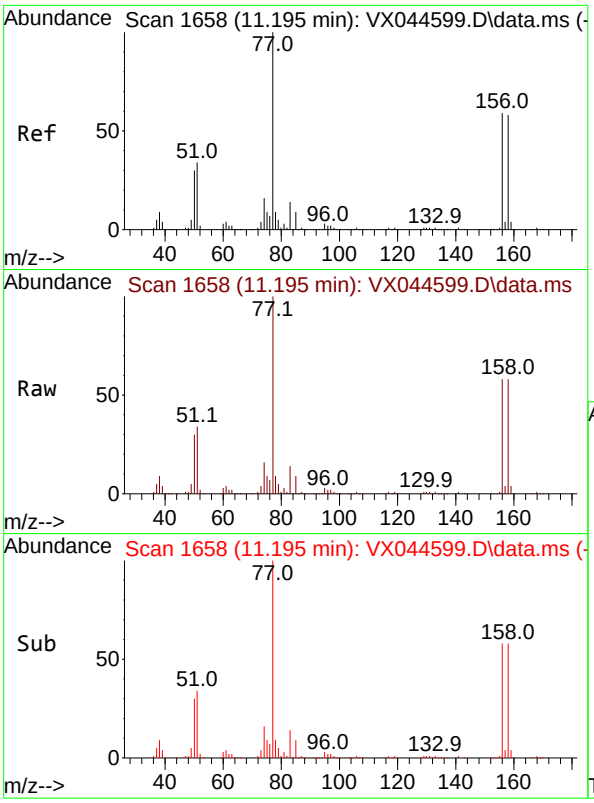


#76
1,2,3-Trichloropropane
Concen: 66.688 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 75 Resp: 161961

Ion	Ratio	Lower	Upper
75	100		
77	32.9	21.1	63.1



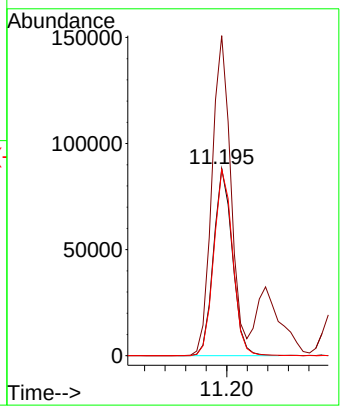


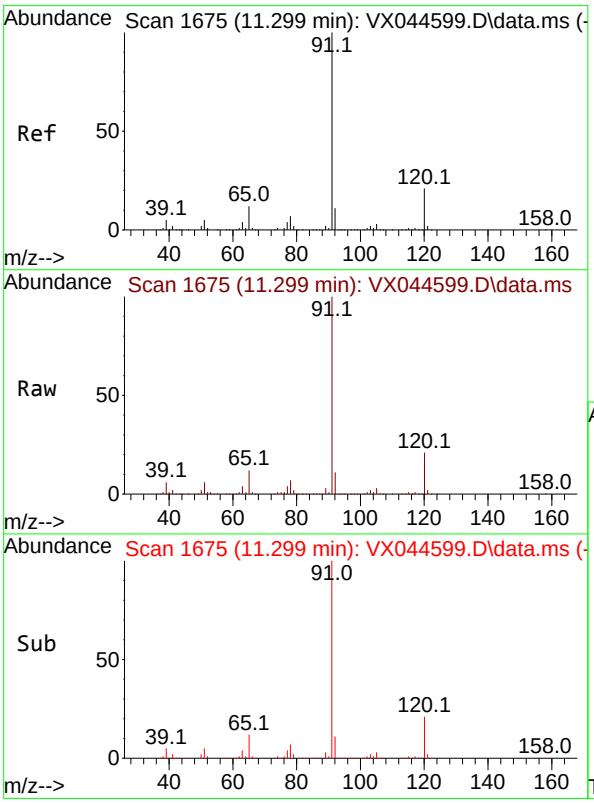
#77
Bromobenzene
Concen: 51.427 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:156 Resp: 112135

Ion	Ratio	Lower	Upper
156	100		
77	171.4	85.7	257.1
158	99.7	49.9	149.6

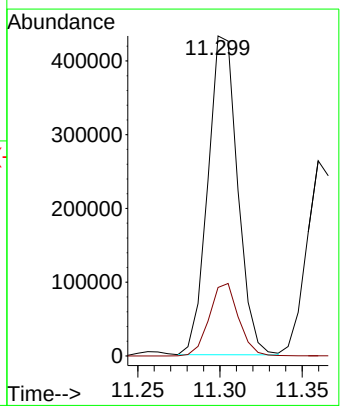


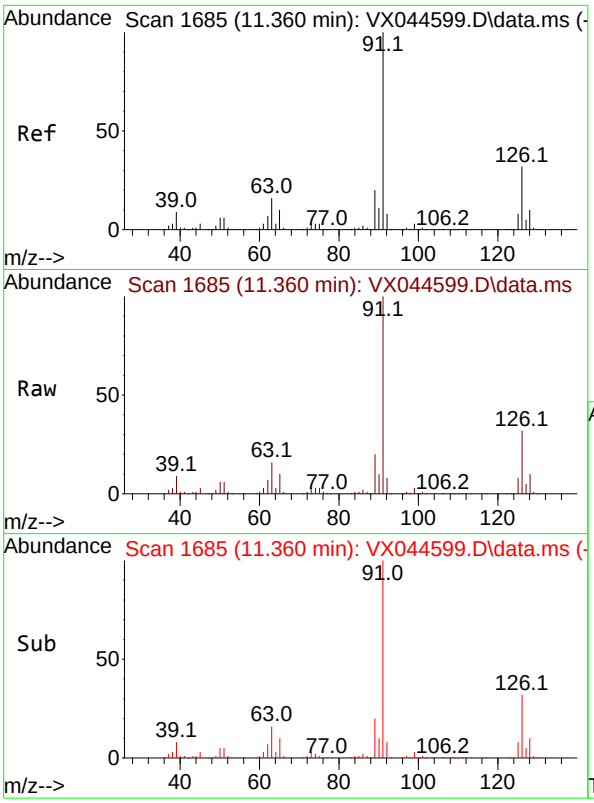


#78
n-propylbenzene
Concen: 53.936 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 91 Resp: 545301

Ion	Ratio	Lower	Upper
91	100		
120	22.3	11.2	33.5



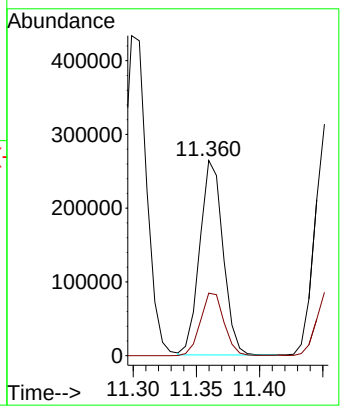


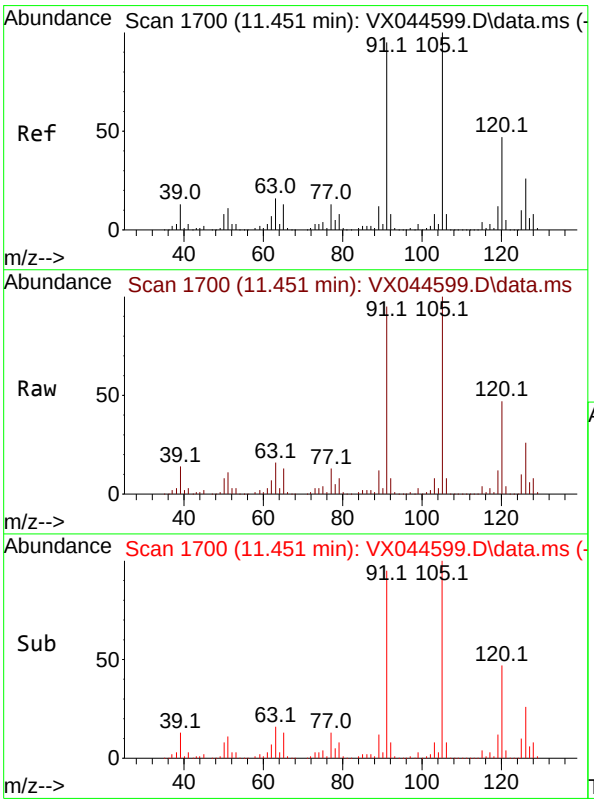
#79
2-Chlorotoluene
Concen: 51.544 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 91 Resp: 337686

Ion	Ratio	Lower	Upper
91	100		
126	32.8	16.4	49.2

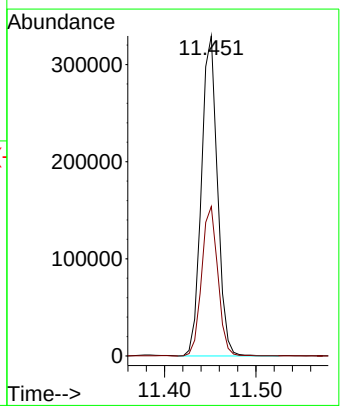


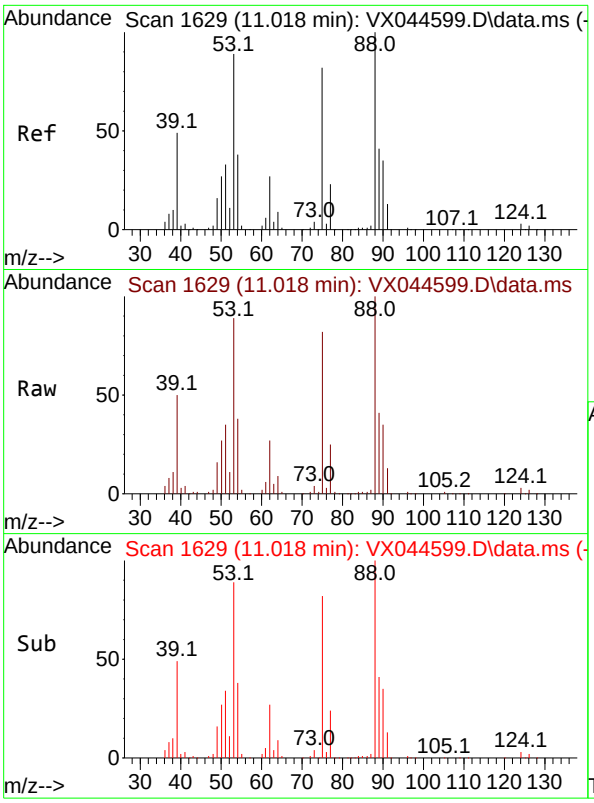


#80
1,3,5-Trimethylbenzene
Concen: 53.787 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion:105 Resp: 400300

Ion	Ratio	Lower	Upper
105	100		
120	47.0	23.5	70.5



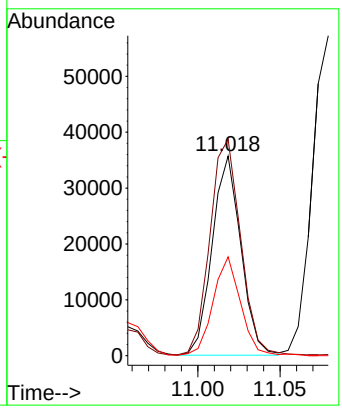


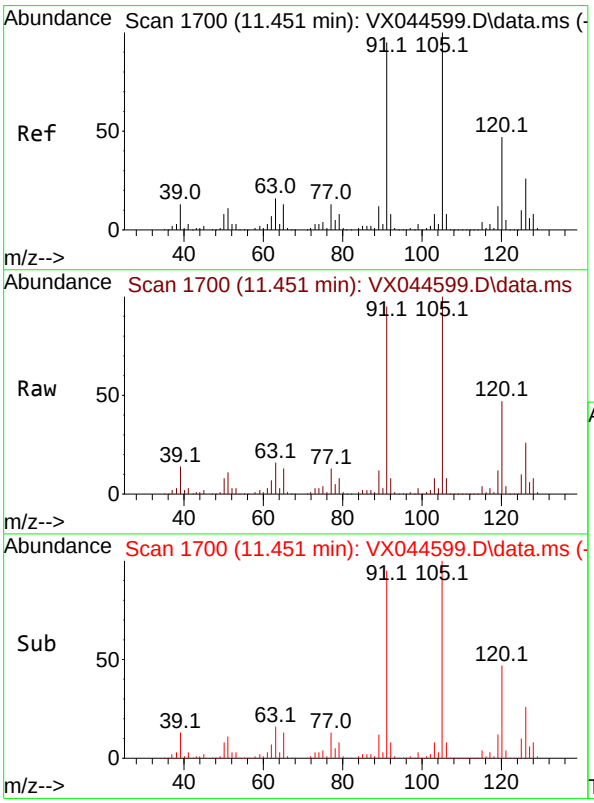
#81
trans-1,4-Dichloro-2-butene
Concen: 54.247 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 75 Resp: 43281

Ion	Ratio	Lower	Upper
75	100		
53	115.9	92.7	139.1
89	47.9	38.3	57.5

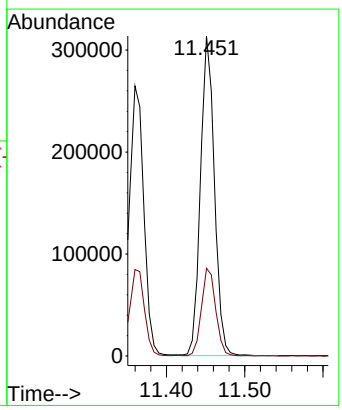


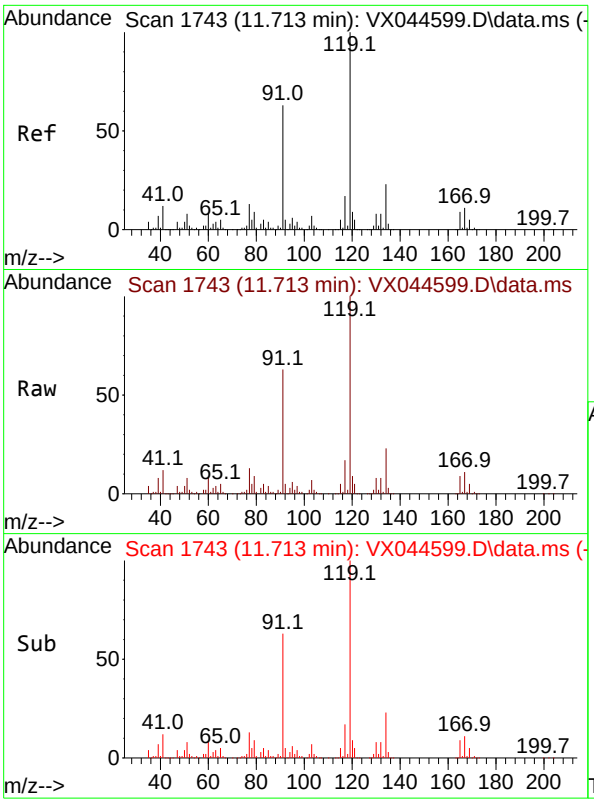


#82
4-Chlorotoluene
Concen: 52.596 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 91 Resp: 387640

Ion	Ratio	Lower	Upper
91	100		
126	28.0	14.0	42.0



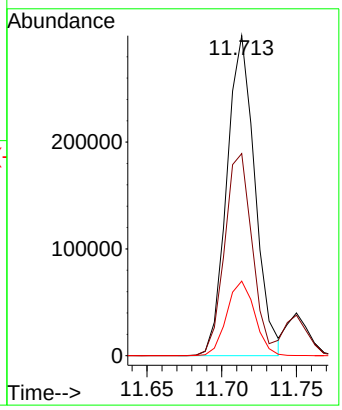


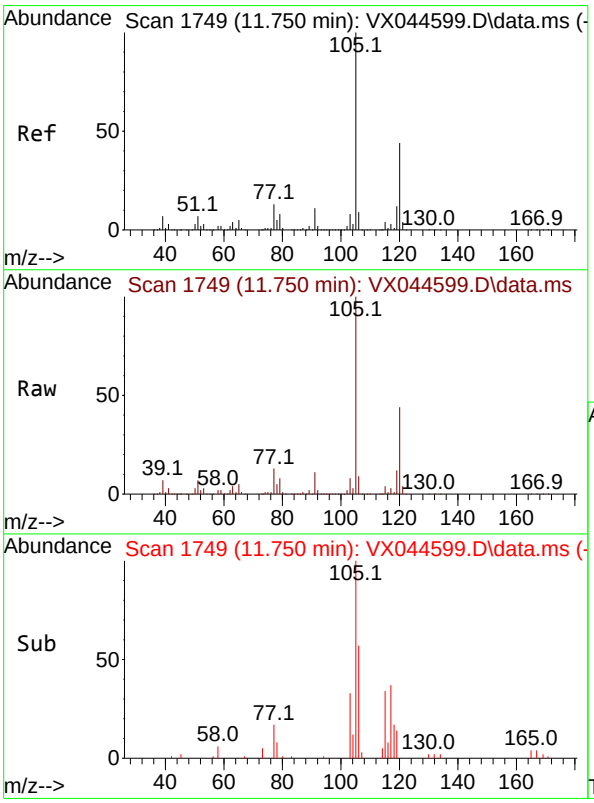
#83
tert-Butylbenzene
Concen: 52.730 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:119 Resp: 390758

Ion	Ratio	Lower	Upper
119	100		
91	61.9	30.9	92.8
134	23.3	11.7	35.0

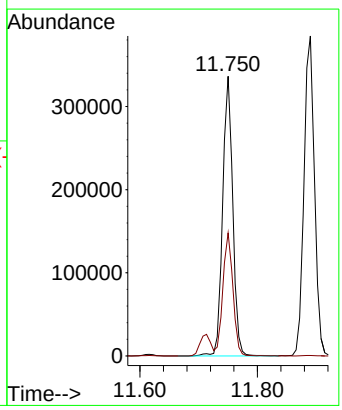


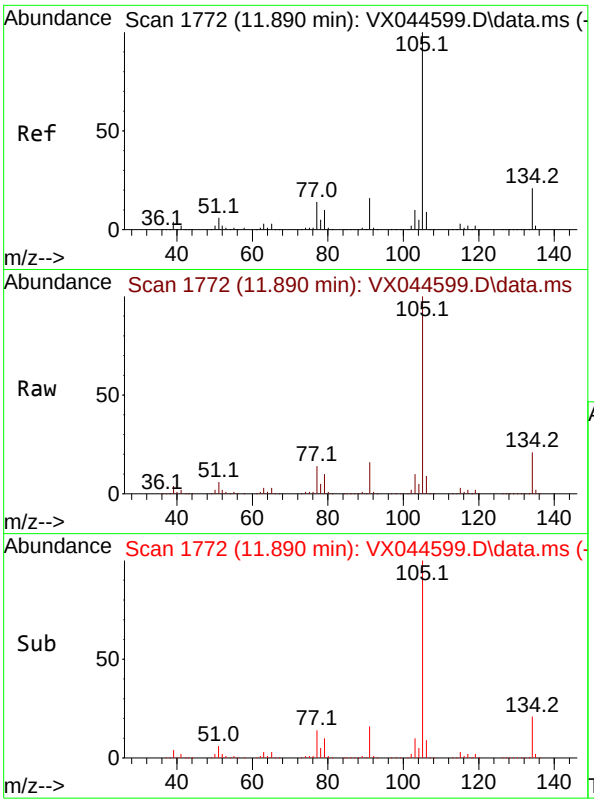


#84
1,2,4-Trimethylbenzene
Concen: 53.720 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion:105 Resp: 401606

Ion	Ratio	Lower	Upper
105	100		
120	43.8	21.9	65.7



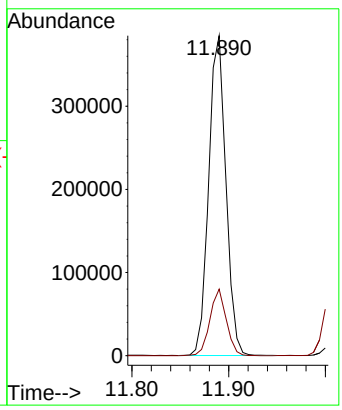


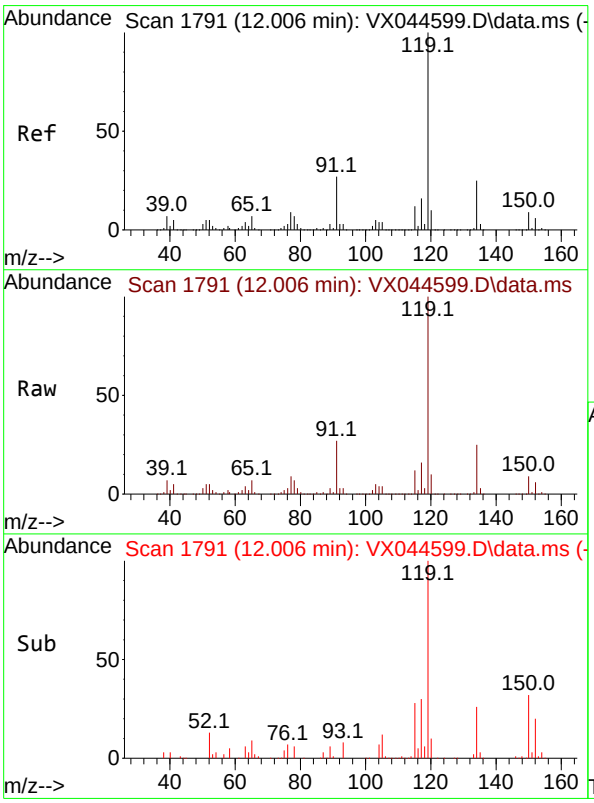
#85
sec-Butylbenzene
Concen: 52.634 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:105 Resp: 475025

Ion	Ratio	Lower	Upper
105	100		
134	19.8	9.9	29.7

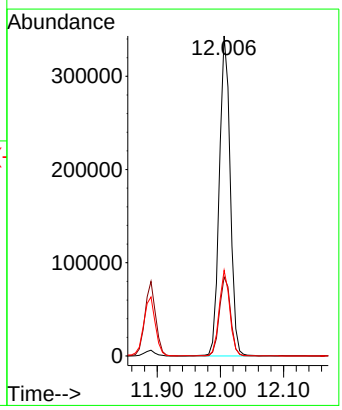


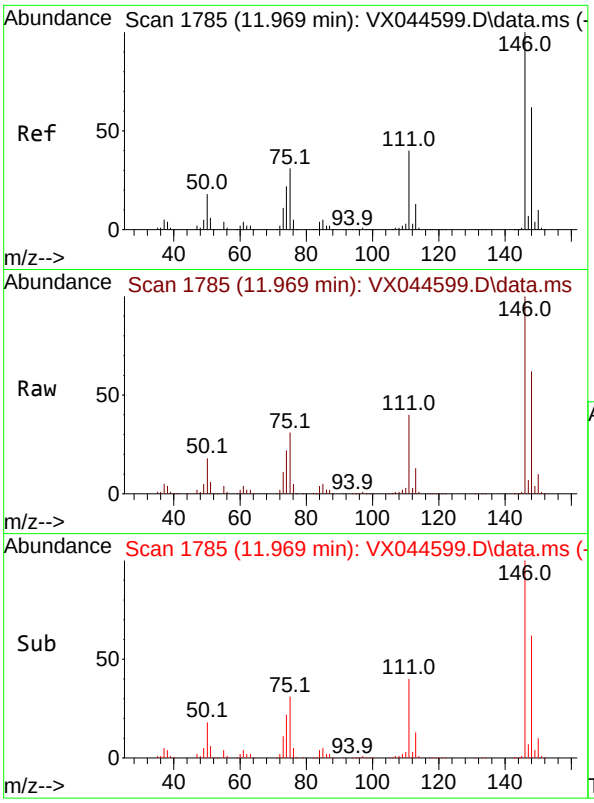


#86
p-Isopropyltoluene
Concen: 53.905 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion:119 Resp: 408205

Ion	Ratio	Lower	Upper
119	100		
134	25.2	12.6	37.8
91	26.1	13.1	39.1



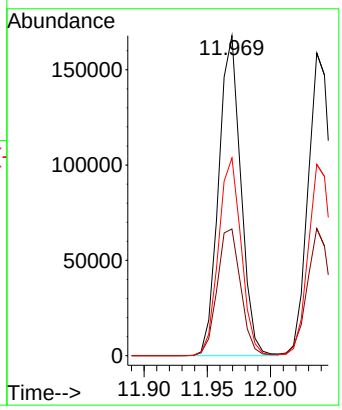


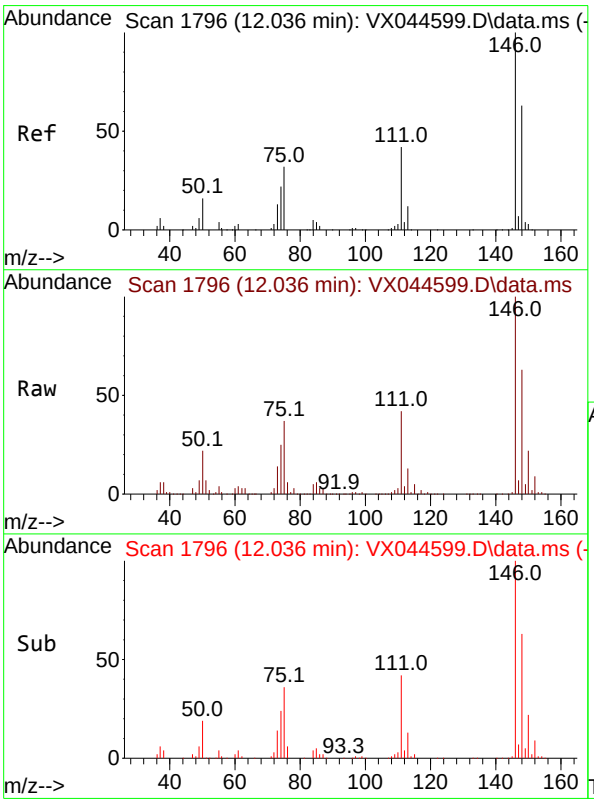
#87
1,3-Dichlorobenzene
Concen: 51.842 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:146 Resp: 204488

Ion	Ratio	Lower	Upper
146	100		
111	42.0	21.0	63.0
148	63.3	31.6	95.0

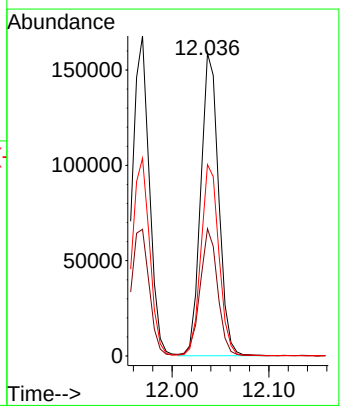


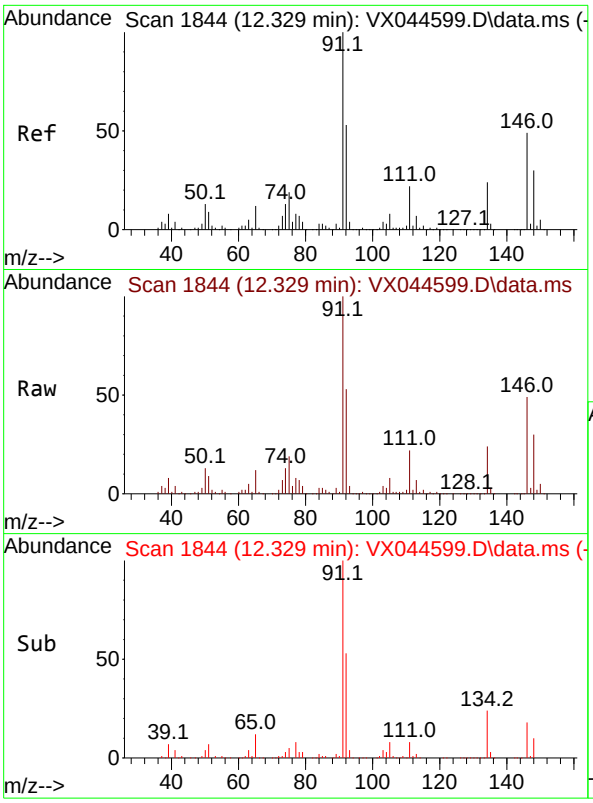


#88
1,4-Dichlorobenzene
Concen: 49.670 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion:146 Resp: 204130

Ion	Ratio	Lower	Upper
146	100		
111	41.4	20.7	62.1
148	63.6	31.8	95.4



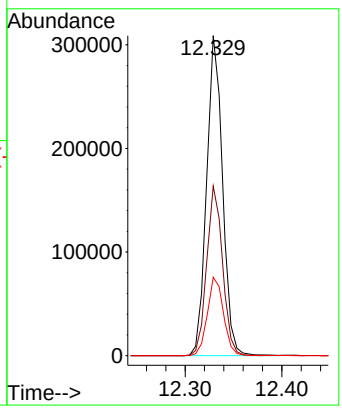


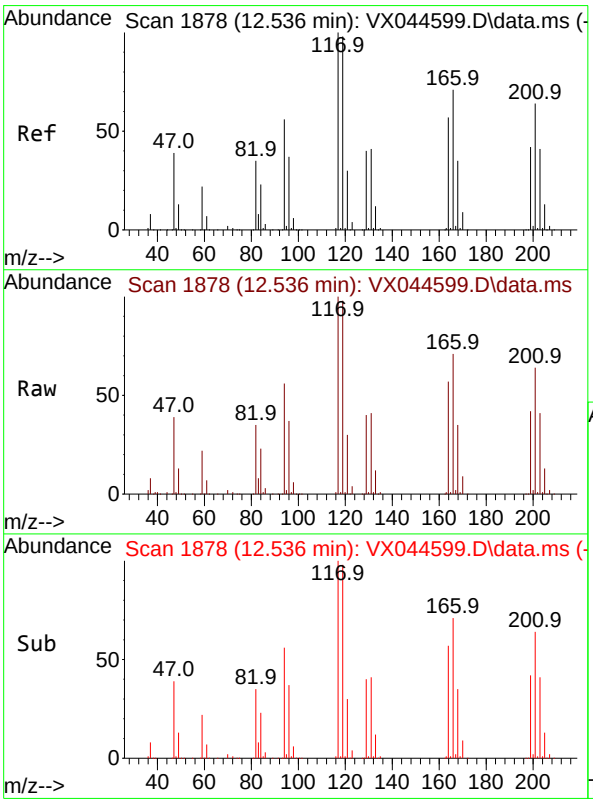
#89
n-Butylbenzene
Concen: 55.495 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 91 Resp: 354854

Ion	Ratio	Lower	Upper
91	100		
92	52.9	26.5	79.4
134	24.8	12.4	37.2

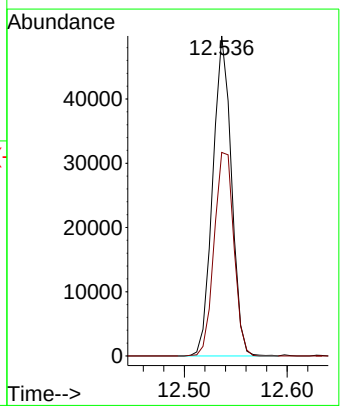


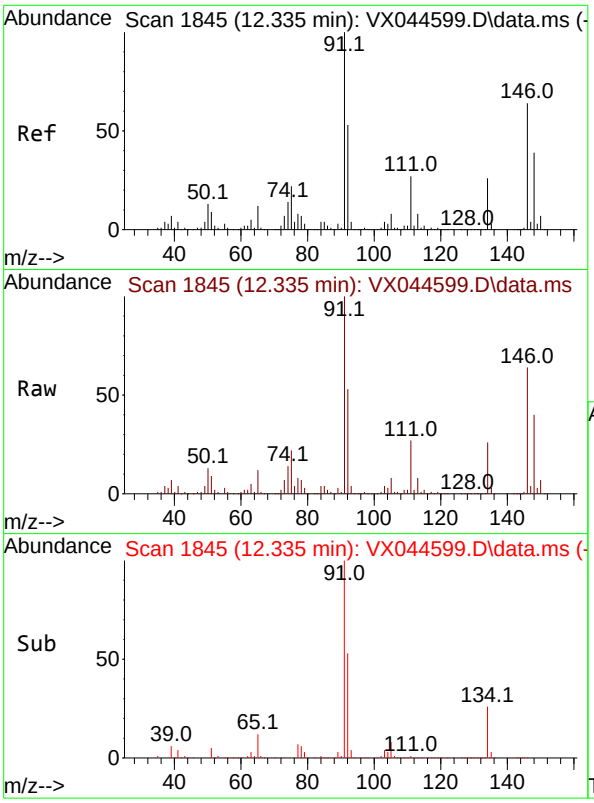


#90
Hexachloroethane
Concen: 51.608 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion:117 Resp: 62782

Ion	Ratio	Lower	Upper
117	100		
201	67.1	33.6	100.6



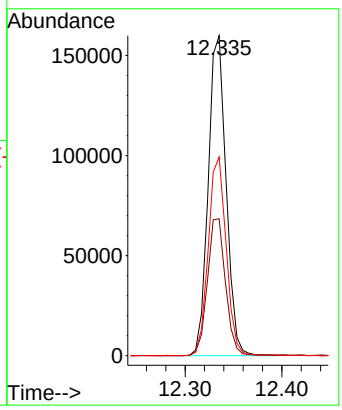


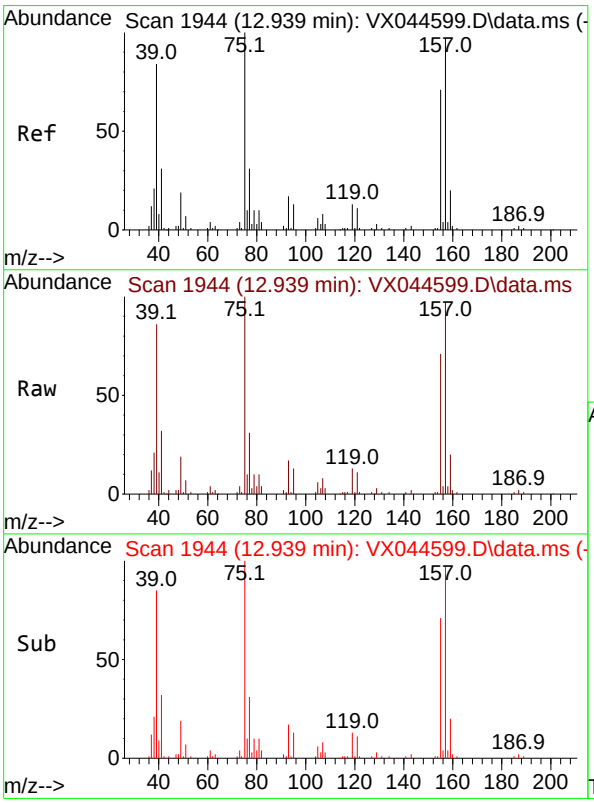
#91
1,2-Dichlorobenzene
Concen: 51.646 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:146 Resp: 205860

Ion	Ratio	Lower	Upper
146	100		
111	43.6	21.8	65.4
148	62.2	31.1	93.3

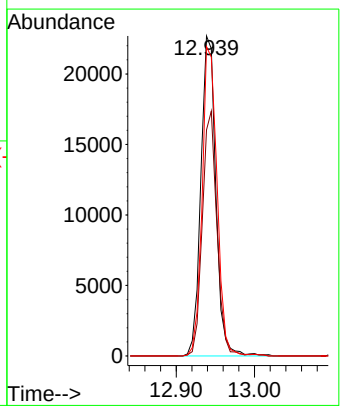


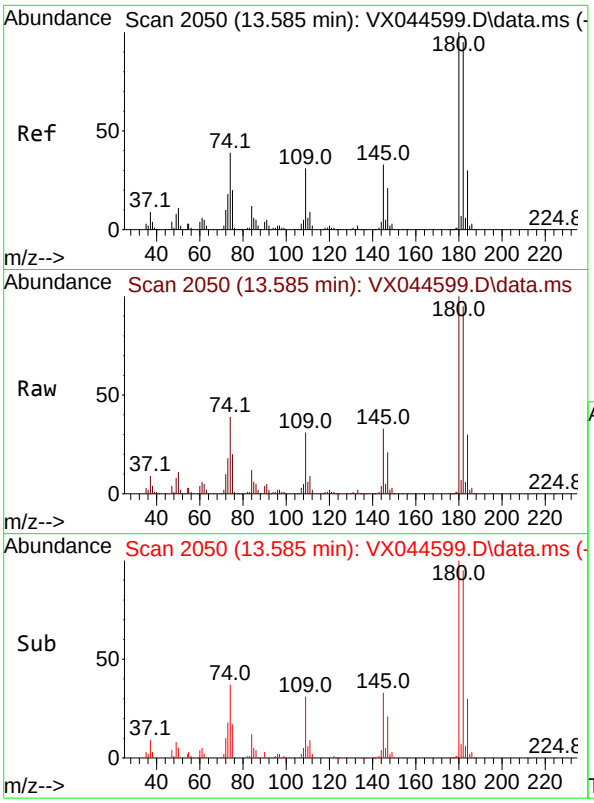


#92
1,2-Dibromo-3-Chloropropane
Concen: 54.942 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion: 75 Resp: 30135

Ion	Ratio	Lower	Upper
75	100		
155	74.7	37.4	112.1
157	96.1	48.0	144.2



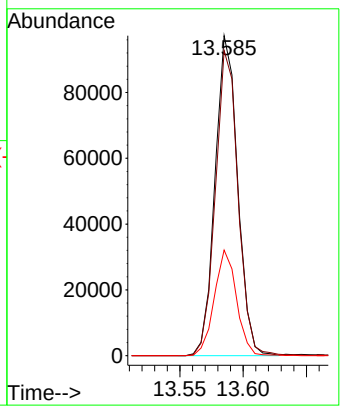


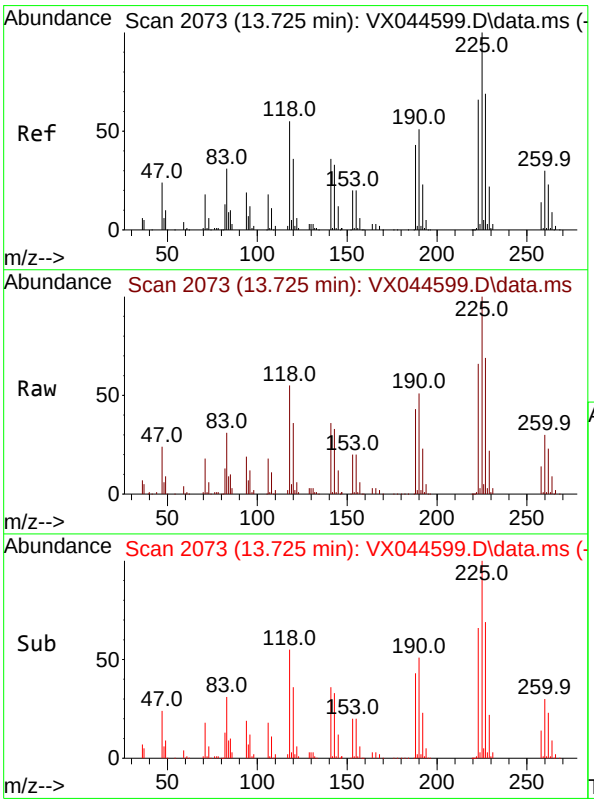
#93
1,2,4-Trichlorobenzene
Concen: 51.442 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:180 Resp: 120511

Ion	Ratio	Lower	Upper
180	100		
182	95.7	47.9	143.6
145	32.6	16.3	48.9

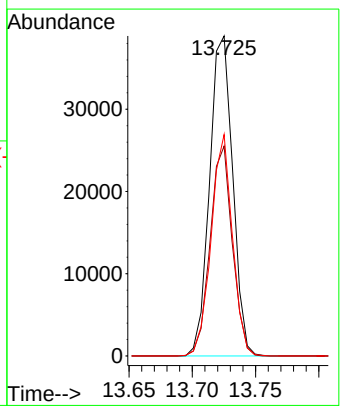


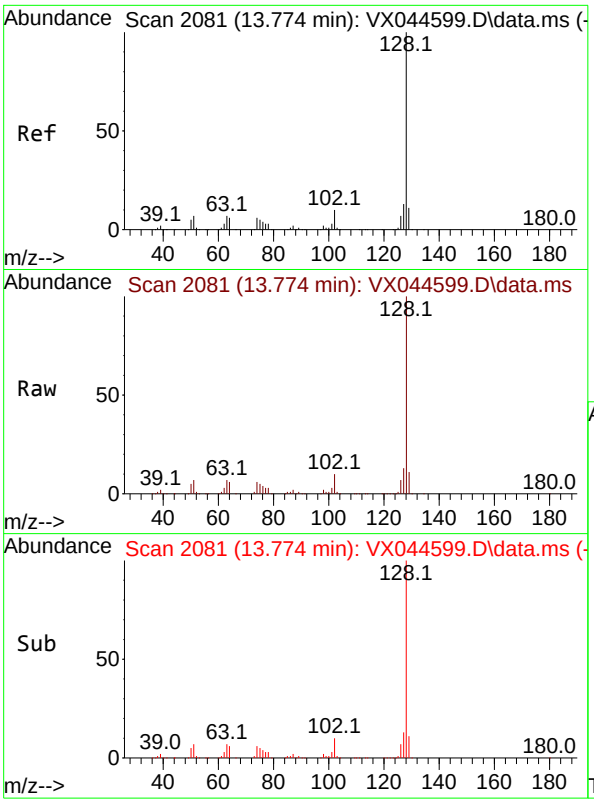


#94
Hexachlorobutadiene
Concen: 50.597 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion:225 Resp: 49357

Ion	Ratio	Lower	Upper
225	100		
223	63.2	31.6	94.8
227	63.9	31.9	95.9



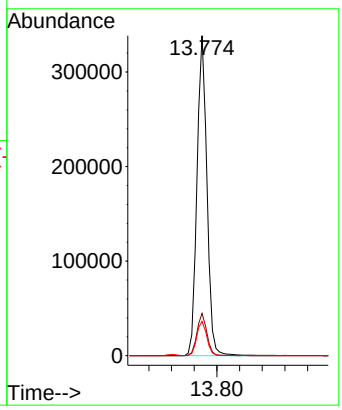


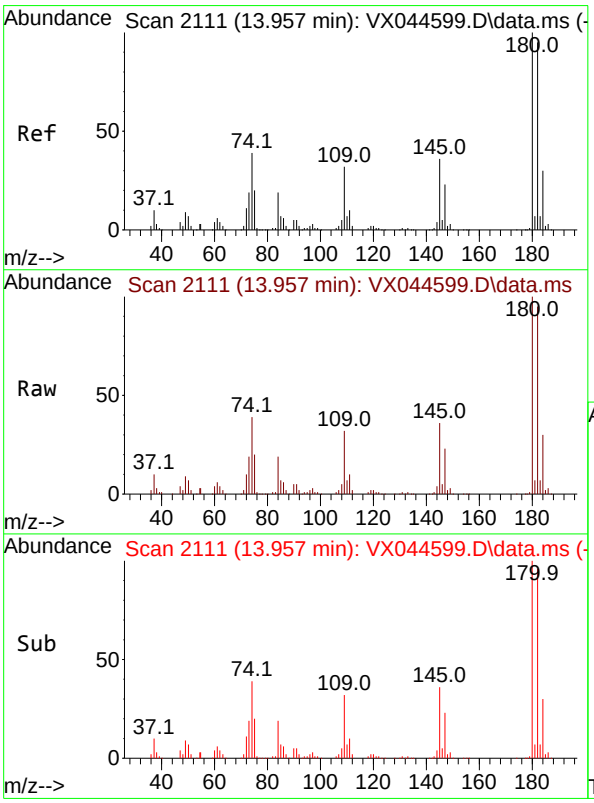
#95
Naphthalene
Concen: 54.539 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:128 Resp: 412247

Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.5	15.7
129	10.8	8.6	13.0

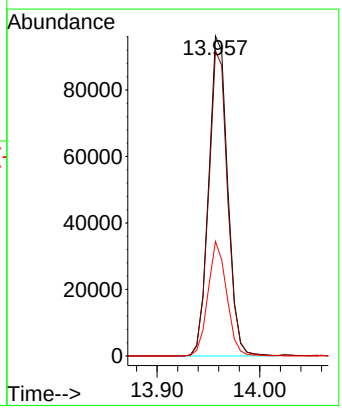




#96
1,2,3-Trichlorobenzene
Concen: 51.567 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX044599.D
Acq: 07 Jan 2025 11:14

Tgt Ion:180 Resp: 123494

Ion	Ratio	Lower	Upper
180	100		
182	95.3	47.6	142.9
145	35.3	17.6	52.9



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044600.D
Acq On : 07 Jan 2025 11:37
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Quant Time: Jan 08 02:31:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 02:18:40 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	182288	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	310906	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	267228	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	128628	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	298512	101.563	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 203.120%#			
35) Dibromofluoromethane	5.379	113	216660	101.626	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 203.260%#			
50) Toluene-d8	8.647	98	736918	101.194	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 202.380%#			
62) 4-Bromofluorobenzene	11.079	95	268349	104.402	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 208.800%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	281621	106.773	ug/l	97
3) Chloromethane	1.294	50	256122	97.445	ug/l	99
4) Vinyl Chloride	1.374	62	253719	102.900	ug/l	100
5) Bromomethane	1.599	94	134602	105.387	ug/l	100
6) Chloroethane	1.666	64	140929	107.665	ug/l	100
7) Trichlorofluoromethane	1.874	101	398258	108.476	ug/l	96
8) Diethyl Ether	2.130	74	137508	105.999	ug/l	94
9) 1,1,2-Trichlorotrifluo...	2.319	101	217440	103.297	ug/l	100
10) Methyl Iodide	2.447	142	288793	98.385	ug/l	99
11) Tert butyl alcohol	2.995	59	186586	515.545	ug/l	100
12) 1,1-Dichloroethene	2.313	96	206051	101.042	ug/l	97
13) Acrolein	2.233	56	258524	540.255	ug/l	99
14) Allyl chloride	2.660	41	371559	109.554	ug/l	99
15) Acrylonitrile	3.062	53	537482	515.650	ug/l	99
16) Acetone	2.380	43	479188	517.276	ug/l	100
17) Carbon Disulfide	2.508	76	494332	117.230	ug/l	100
18) Methyl Acetate	2.703	43	282139	103.188	ug/l	98
19) Methyl tert-butyl Ether	3.111	73	733689	104.984	ug/l	100
20) Methylene Chloride	2.782	84	229290	97.019	ug/l	98
21) trans-1,2-Dichloroethene	3.087	96	214461	102.468	ug/l	95
22) Diisopropyl ether	3.757	45	736946	105.701	ug/l	95
23) Vinyl Acetate	3.715	43	3263158	578.791	ug/l	100
24) 1,1-Dichloroethane	3.605	63	421306	103.707	ug/l	99
25) 2-Butanone	4.556	43	727090	543.775	ug/l	98
26) 2,2-Dichloropropane	4.471	77	373500	106.339	ug/l	99
27) cis-1,2-Dichloroethene	4.477	96	259280	101.596	ug/l	99
28) Bromochloromethane	4.891	49	192580	101.838	ug/l	96
29) Tetrahydrofuran	5.001	42	477636	521.636	ug/l	98
30) Chloroform	5.086	83	441057	100.708	ug/l	99
31) Cyclohexane	5.458	56	343501	102.984	ug/l	96
32) 1,1,1-Trichloroethane	5.379	97	395161	107.215	ug/l	100
36) 1,1-Dichloropropene	5.684	75	288443	104.631	ug/l	100
37) Ethyl Acetate	4.708	43	305727	108.495	ug/l	99
38) Carbon Tetrachloride	5.672	117	332090	108.573	ug/l	97
39) Methylcyclohexane	7.373	83	368363	104.721	ug/l	99
40) Benzene	6.031	78	870111	100.244	ug/l	100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044600.D
Acq On : 07 Jan 2025 11:37
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Quant Time: Jan 08 02:31:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 02:18:40 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.922	41	172379	113.877	ug/l		97
42) 1,2-Dichloroethane	6.080	62	358563	105.631	ug/l		100
43) Isopropyl Acetate	6.336	43	511813	110.008	ug/l		99
44) Trichloroethene	7.123	130	219638	98.990	ug/l		99
45) 1,2-Dichloropropane	7.421	63	219320	103.636	ug/l		100
46) Dibromomethane	7.574	93	166973	101.452	ug/l		99
47) Bromodichloromethane	7.818	83	329340	109.962	ug/l		99
48) Methyl methacrylate	7.690	41	251364	113.277	ug/l		98
49) 1,4-Dioxane	7.665	88	66197	2030.048	ug/l		97
51) 4-Methyl-2-Pentanone	8.574	43	1483866	545.612	ug/l		100
52) Toluene	8.714	92	537927	102.712	ug/l		95
53) t-1,3-Dichloropropene	8.976	75	334122	116.711	ug/l		97
54) cis-1,3-Dichloropropene	8.360	75	357294	111.049	ug/l		98
55) 1,1,2-Trichloroethane	9.147	97	202789	98.770	ug/l		98
56) Ethyl methacrylate	9.116	69	336196	112.594	ug/l		99
57) 1,3-Dichloropropane	9.305	76	351820	102.044	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	820346	554.192	ug/l		99
59) 2-Hexanone	9.427	43	1082252	562.682	ug/l		99
60) Dibromochloromethane	9.519	129	230891	112.783	ug/l		99
61) 1,2-Dibromoethane	9.604	107	213851	103.131	ug/l		98
64) Tetrachloroethene	9.269	164	180662	95.619	ug/l		97
65) Chlorobenzene	10.073	112	567868	100.126	ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.159	131	202443	107.471	ug/l		99
67) Ethyl Benzene	10.189	91	1012626	103.973	ug/l		98
68) m/p-Xylenes	10.299	106	759829	212.310	ug/l		98
69) o-Xylene	10.640	106	370442	102.549	ug/l		99
70) Styrene	10.653	104	631408	109.281	ug/l		100
71) Bromoform	10.799	173	144682	100.045	ug/l	#	99
73) Isopropylbenzene	10.957	105	962130	100.962	ug/l		100
74) N-amyl acetate	10.842	43	448832	116.075	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.213	83	300014	97.671	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	339329	131.600	ug/l		83
77) Bromobenzene	11.195	156	229880	99.301	ug/l		99
78) n-propylbenzene	11.305	91	1123872	104.704	ug/l		99
79) 2-Chlorotoluene	11.360	91	676433	97.250	ug/l		98
80) 1,3,5-Trimethylbenzene	11.451	105	812896	102.880	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	96267	113.646	ug/l		98
82) 4-Chlorotoluene	11.451	91	788178	100.727	ug/l		99
83) tert-Butylbenzene	11.713	119	802790	102.037	ug/l		99
84) 1,2,4-Trimethylbenzene	11.750	105	810865	102.161	ug/l		100
85) sec-Butylbenzene	11.890	105	988328	103.145	ug/l		100
86) p-Isopropyltoluene	12.006	119	848479	105.534	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	419032	100.060	ug/l		99
88) 1,4-Dichlorobenzene	12.036	146	421191	96.532	ug/l		99
89) n-Butylbenzene	12.329	91	765855	112.811	ug/l		99
90) Hexachloroethane	12.536	117	143461	111.076	ug/l		98
91) 1,2-Dichlorobenzene	12.335	146	414572	97.964	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.939	75	66164	113.620	ug/l		99
93) 1,2,4-Trichlorobenzene	13.585	180	263479	105.934	ug/l		100
94) Hexachlorobutadiene	13.725	225	105982	102.333	ug/l		99
95) Naphthalene	13.774	128	884039	110.159	ug/l		99
96) 1,2,3-Trichlorobenzene	13.957	180	262997	103.439	ug/l		100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044600.D
Acq On : 07 Jan 2025 11:37
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Quant Time: Jan 08 02:31:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 02:18:40 2025
Response via : Initial Calibration

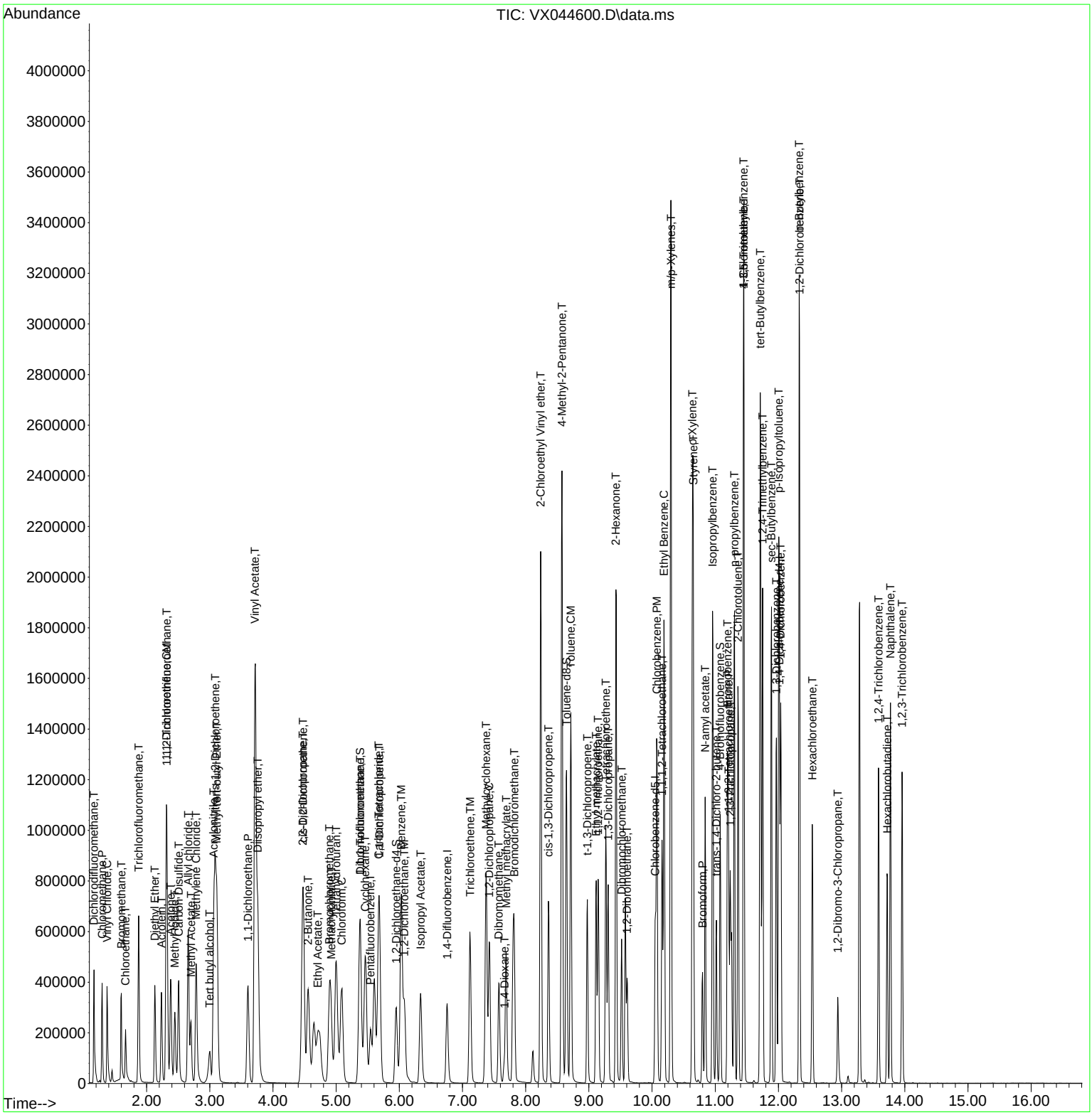
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

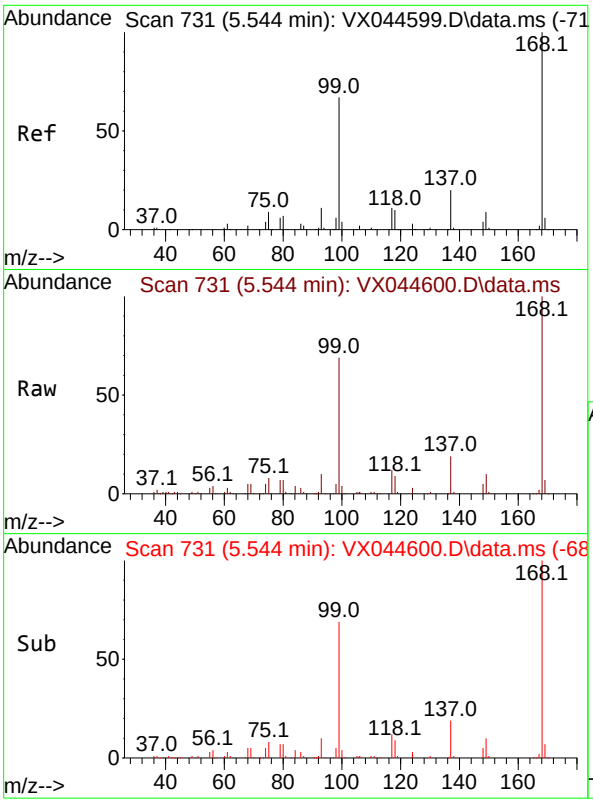
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044600.D
Acq On : 07 Jan 2025 11:37
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Quant Time: Jan 08 02:31:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 02:18:40 2025
Response via : Initial Calibration



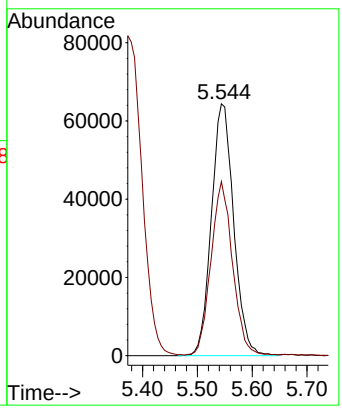


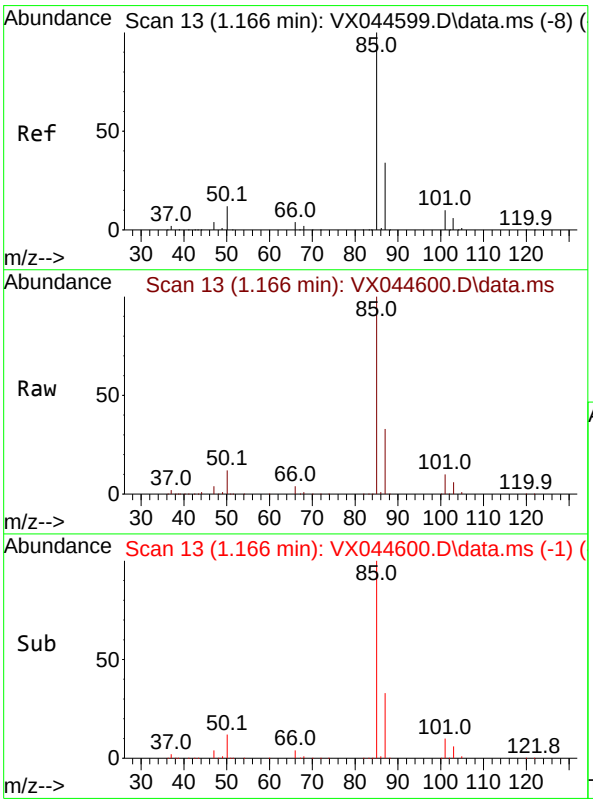
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:168 Resp: 182288

Ion	Ratio	Lower	Upper
168	100		
99	68.8	53.5	80.3

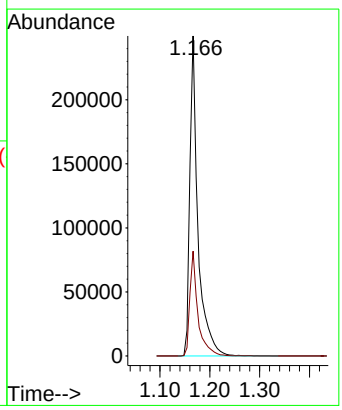


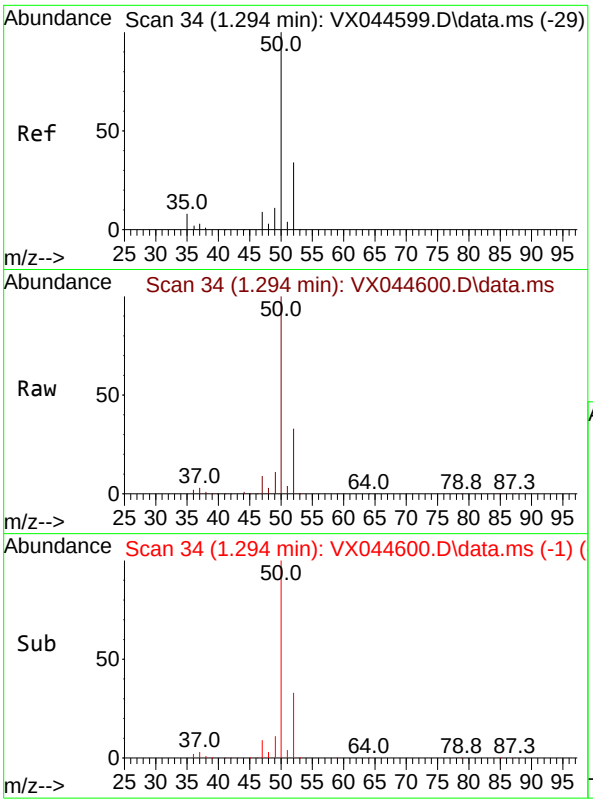


#2
Dichlorodifluoromethane
Concen: 106.773 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 85 Resp: 281621

Ion	Ratio	Lower	Upper
85	100		
87	32.8	17.2	51.5



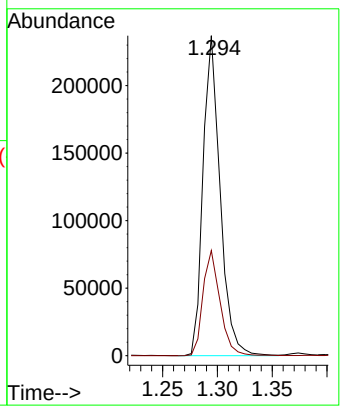


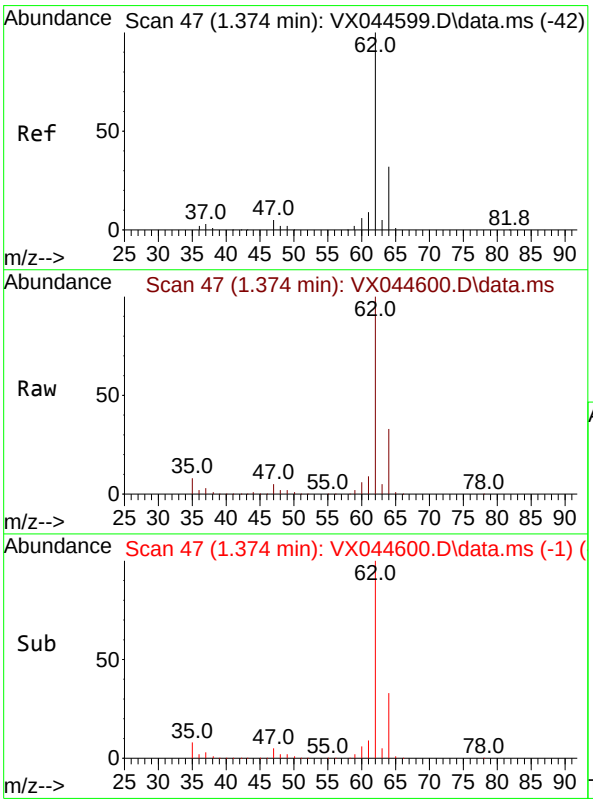
#3
Chloromethane
Concen: 97.445 ug/l
RT: 1.294 min Scan# 34
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 50 Resp: 256122

Ion	Ratio	Lower	Upper
50	100		
52	32.9	27.0	40.4

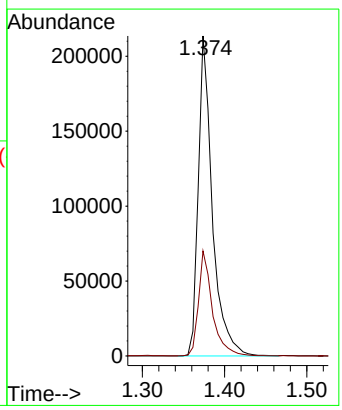


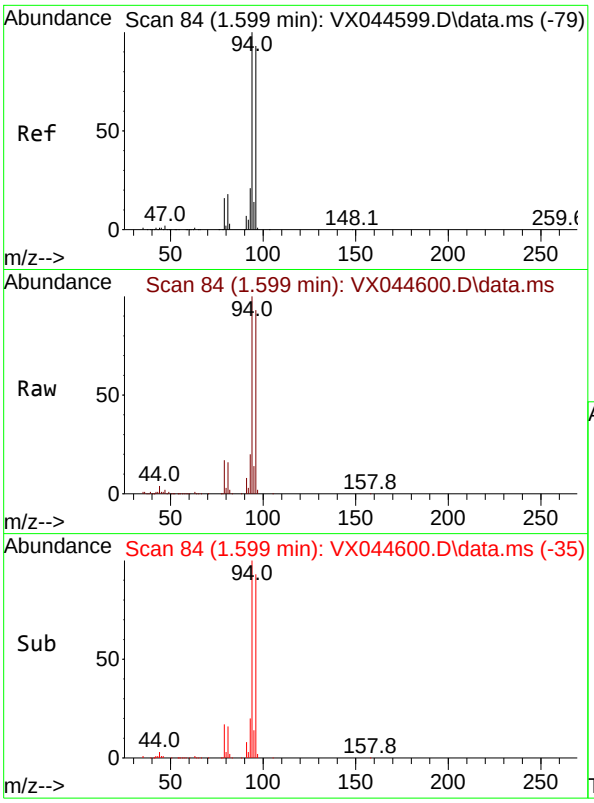


#4
Vinyl Chloride
Concen: 102.900 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 62 Resp: 253719

Ion	Ratio	Lower	Upper
62	100		
64	32.7	26.0	39.0



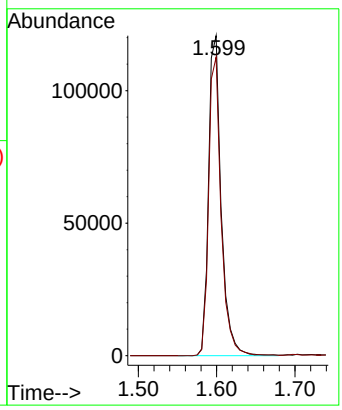


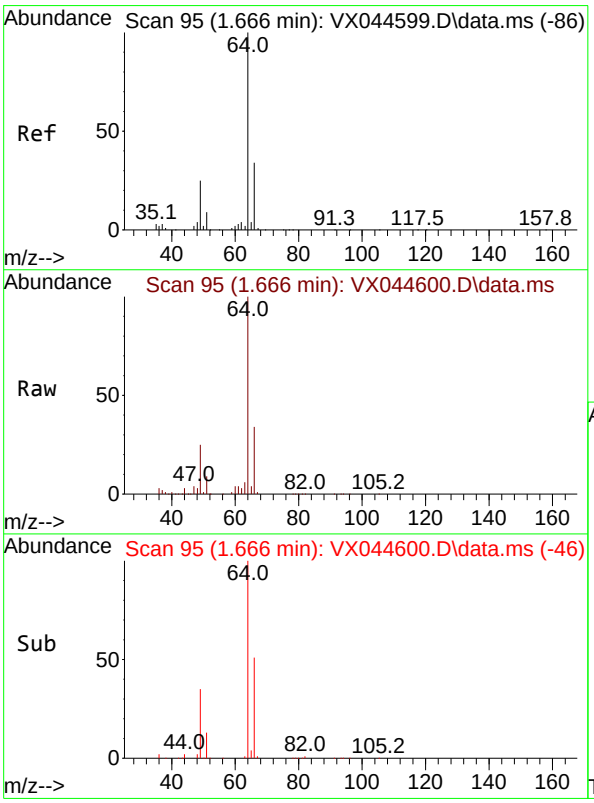
#5
Bromomethane
Concen: 105.387 ug/l
RT: 1.599 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 94 Resp: 134602

Ion	Ratio	Lower	Upper
94	100		
96	93.3	74.6	112.0

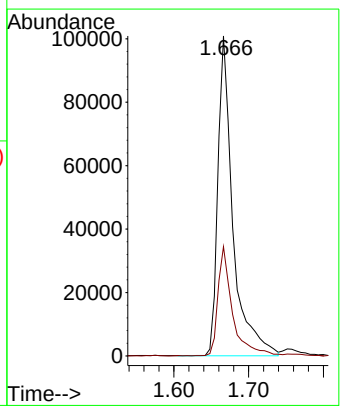


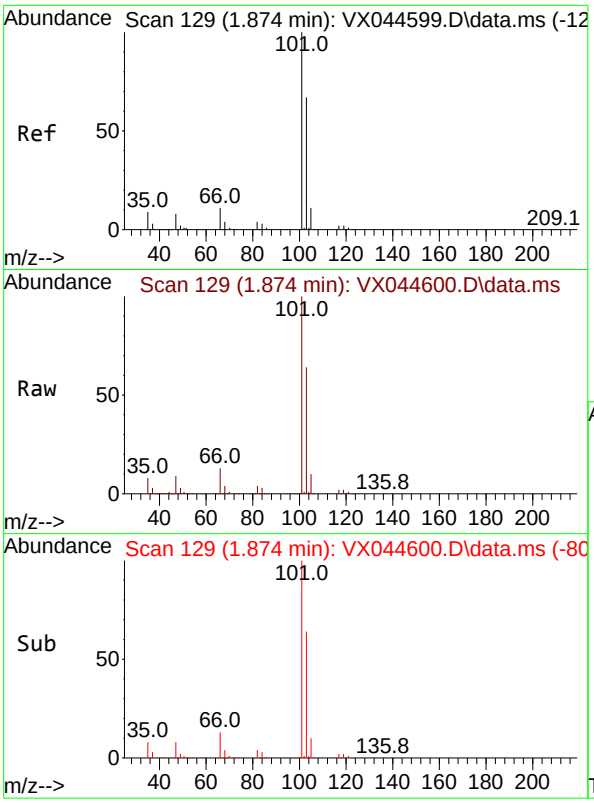


#6
Chloroethane
Concen: 107.665 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 64 Resp: 140929

Ion	Ratio	Lower	Upper
64	100		
66	34.0	27.3	40.9



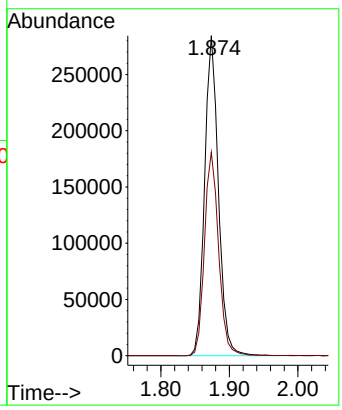


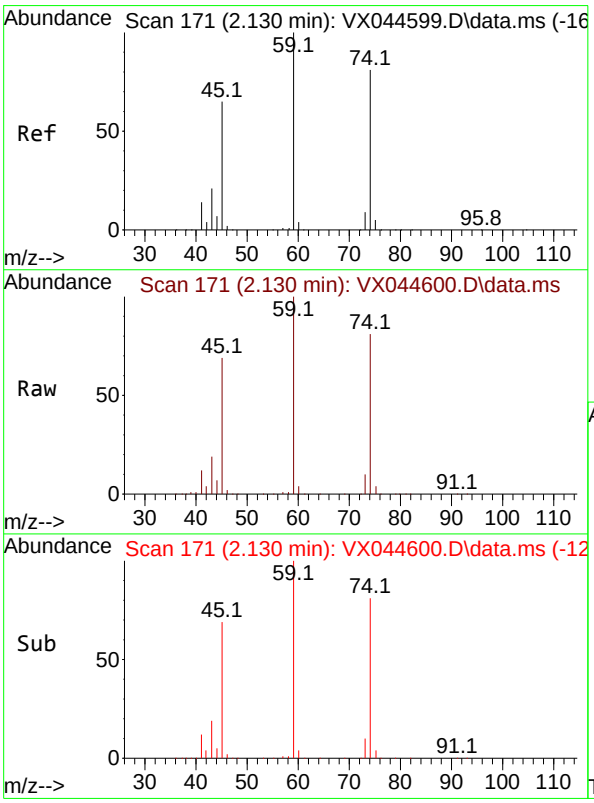
#7
Trichlorofluoromethane
Concen: 108.476 ug/l
RT: 1.874 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:101 Resp: 398258

Ion	Ratio	Lower	Upper
101	100		
103	63.6	53.3	79.9

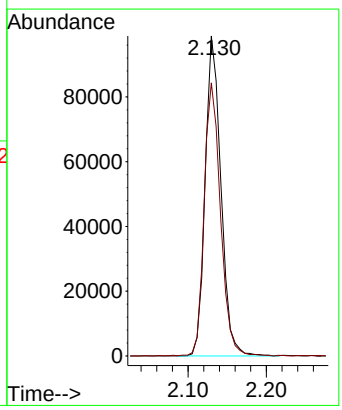


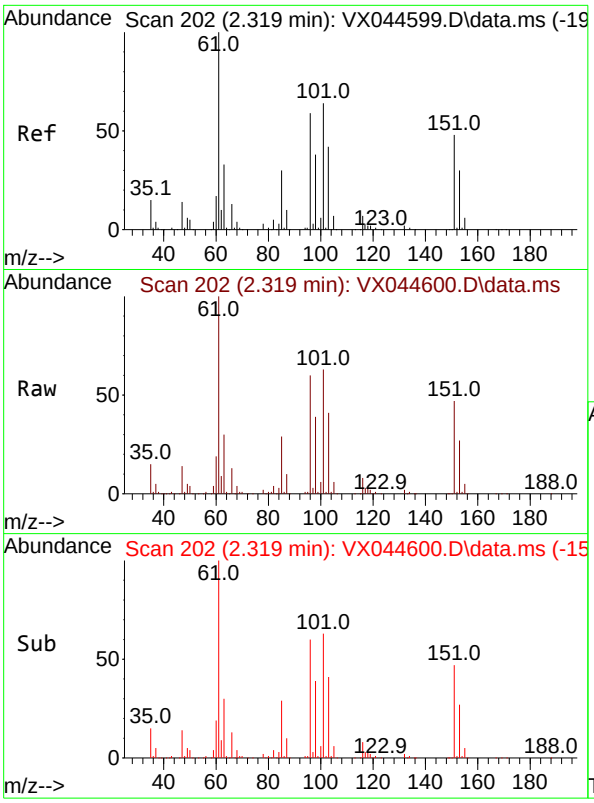


#8
Diethyl Ether
Concen: 105.999 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 74 Resp: 137508

Ion	Ratio	Lower	Upper
74	100		
45	88.8	41.7	125.1



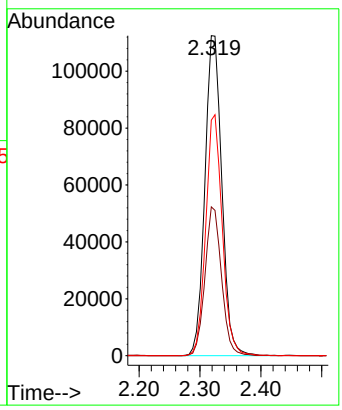


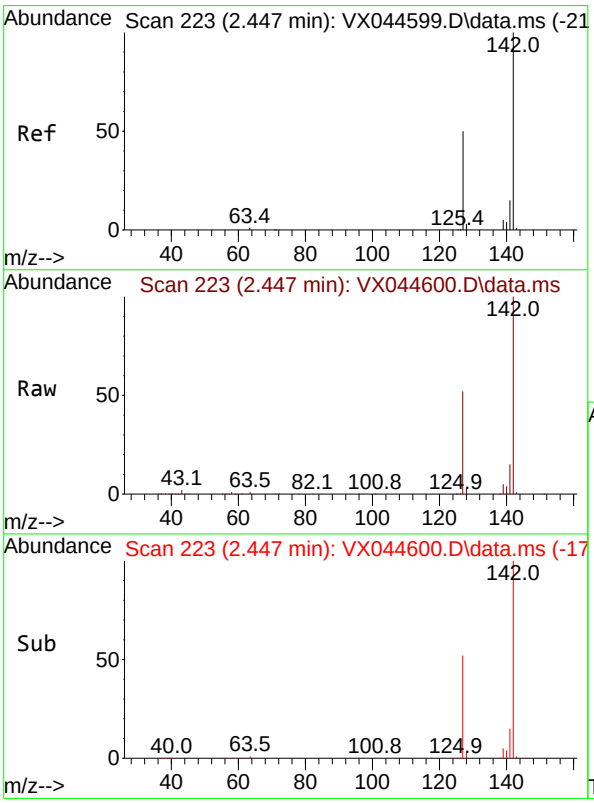
#9
1,1,2-Trichlorotrifluoroethane
Concen: 103.297 ug/l
RT: 2.319 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:101 Resp: 217440

Ion	Ratio	Lower	Upper
101	100		
85	45.4	36.5	54.7
151	73.4	58.6	87.8

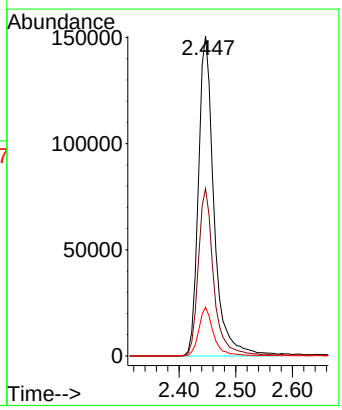


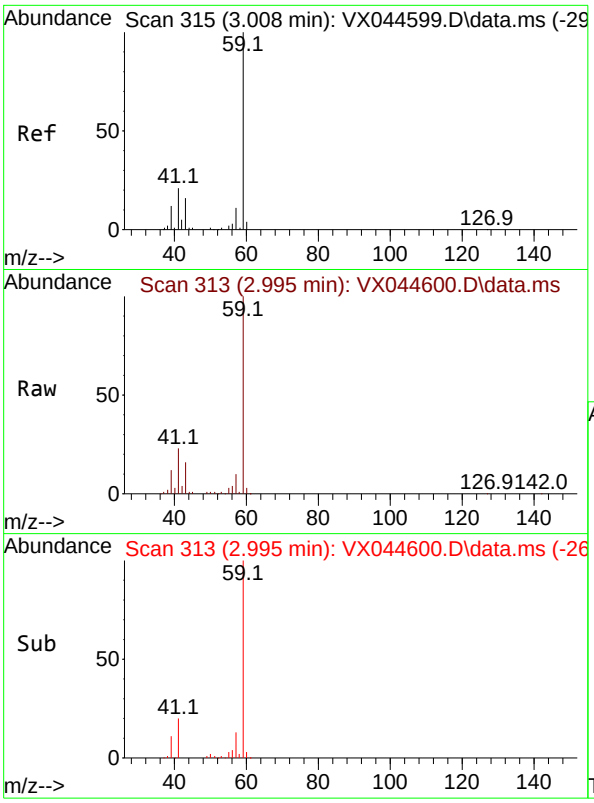


#10
Methyl Iodide
Concen: 98.385 ug/l
RT: 2.447 min Scan# 223
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion:142 Resp: 288793

Ion	Ratio	Lower	Upper
142	100		
127	51.7	41.9	62.9
141	14.5	11.8	17.6



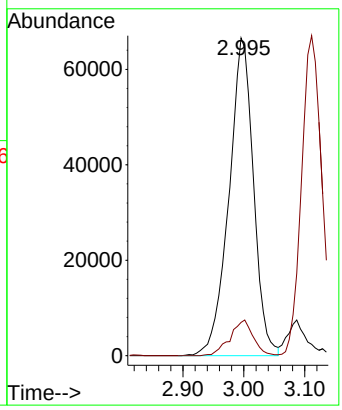


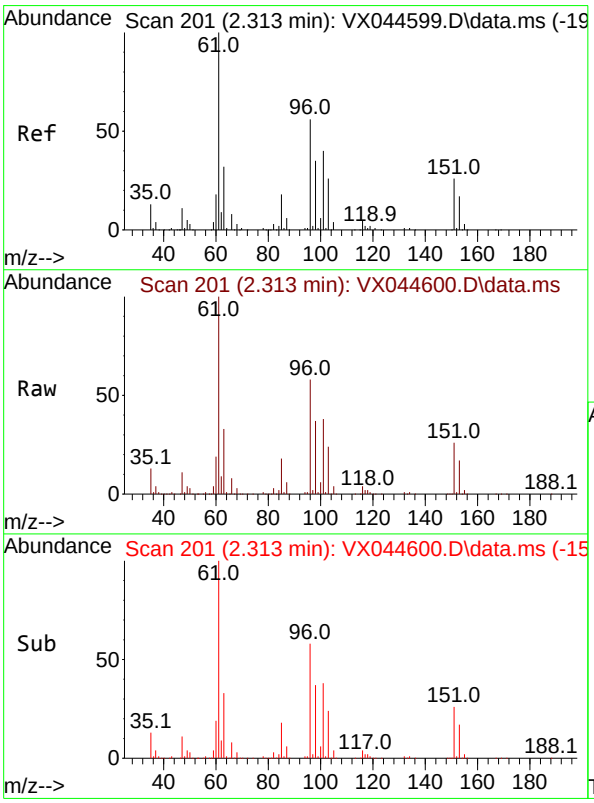
#11
Tert butyl alcohol
Concen: 515.545 ug/l
RT: 2.995 min Scan# 3
Delta R.T. -0.012 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 59 Resp: 186586

Ion	Ratio	Lower	Upper
59	100		
57	10.7	8.6	12.8

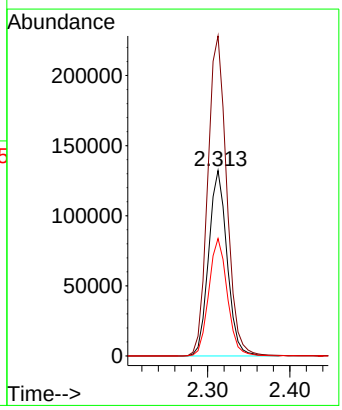


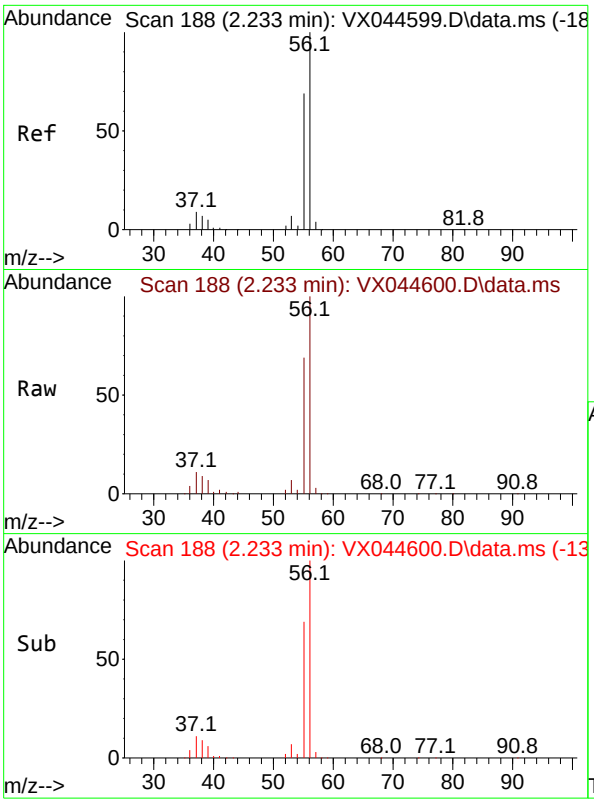


#12
1,1-Dichloroethene
Concen: 101.042 ug/l
RT: 2.313 min Scan# 201
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 96 Resp: 206051

Ion	Ratio	Lower	Upper
96	100		
61	172.5	143.3	214.9
98	63.3	50.6	76.0



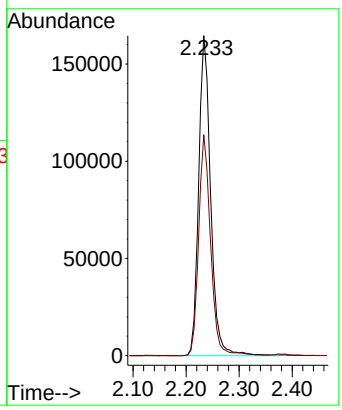


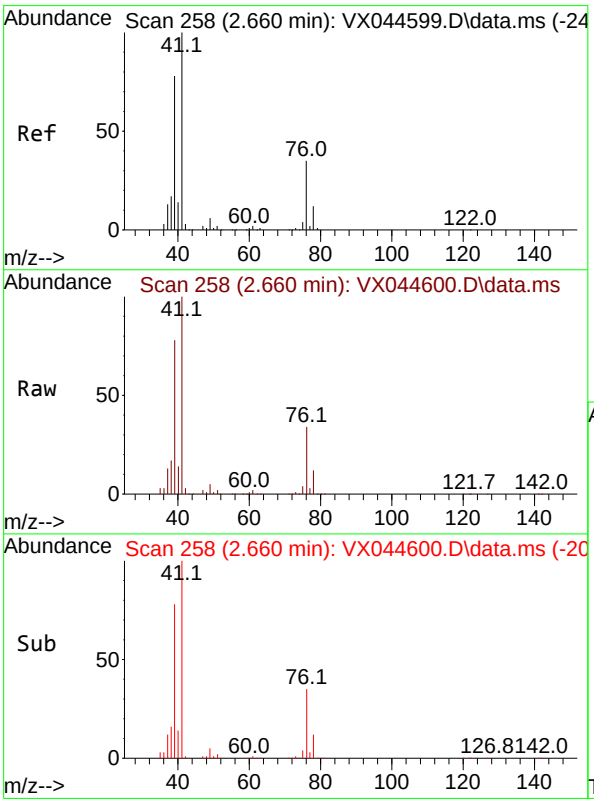
#13
Acrolein
Concen: 540.255 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 56 Resp: 258524

Ion	Ratio	Lower	Upper
56	100		
55	69.0	55.8	83.8

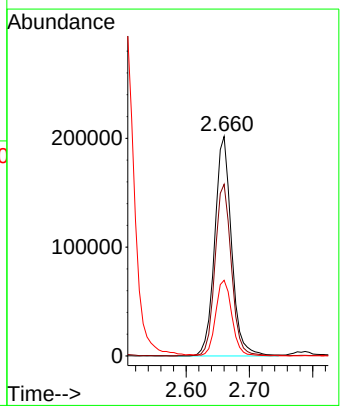


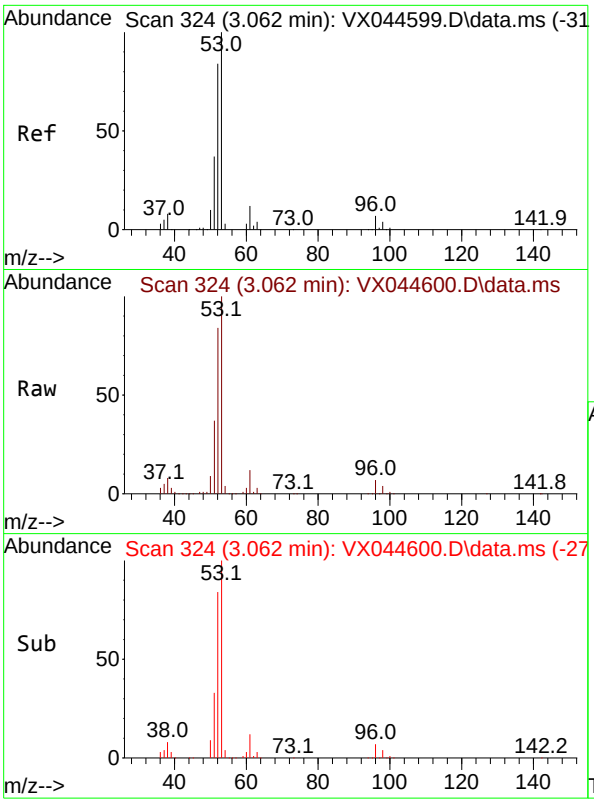


#14
Allyl chloride
Concen: 109.554 ug/l
RT: 2.660 min Scan# 258
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 41 Resp: 371559

Ion	Ratio	Lower	Upper
41	100		
39	75.6	60.2	90.2
76	33.2	25.9	38.9



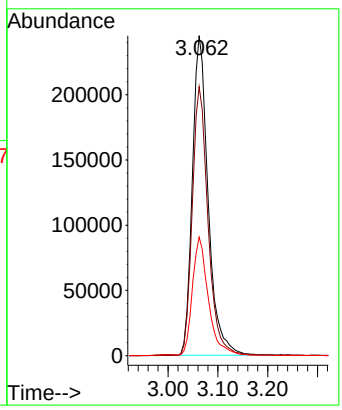


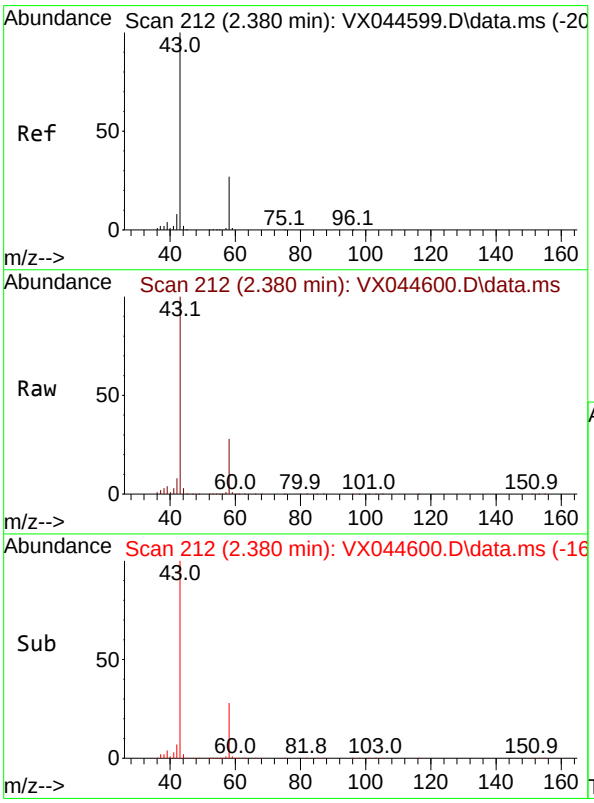
#15
Acrylonitrile
Concen: 515.650 ug/l
RT: 3.062 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 53 Resp: 537482

Ion	Ratio	Lower	Upper
53	100		
52	84.2	67.0	100.6
51	37.3	29.4	44.0

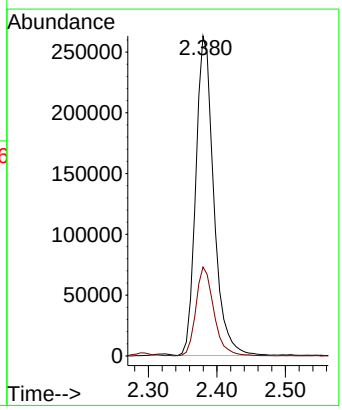


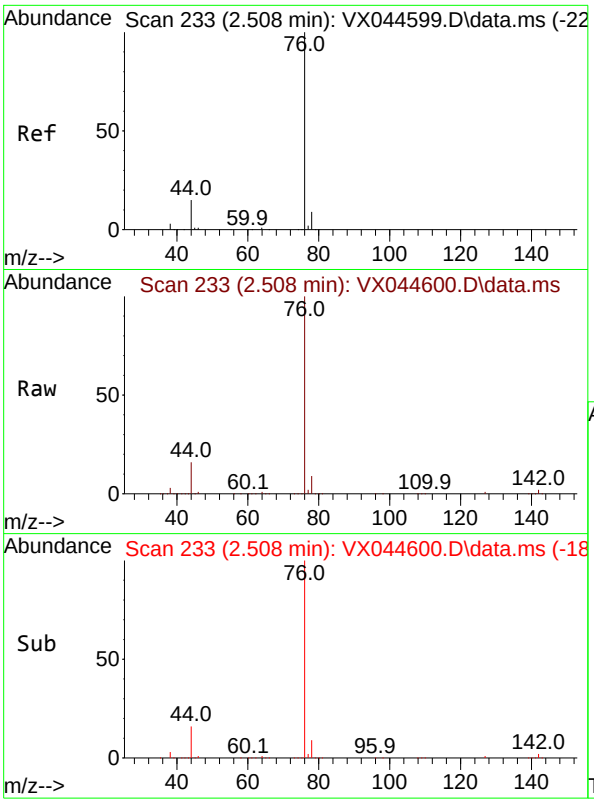


#16
Acetone
Concen: 517.276 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 43 Resp: 479188

Ion	Ratio	Lower	Upper
43	100		
58	27.8	22.0	33.0



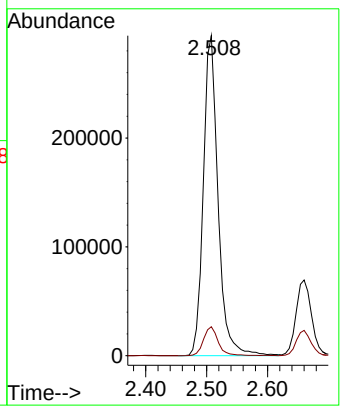


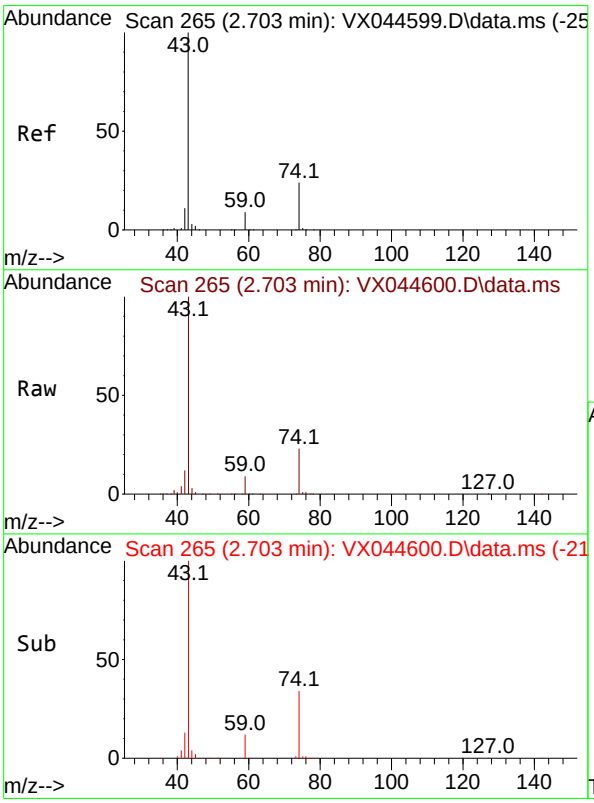
#17
Carbon Disulfide
Concen: 117.230 ug/l
RT: 2.508 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 76 Resp: 494332

Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.1	10.7

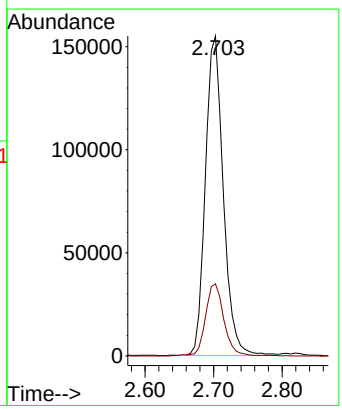


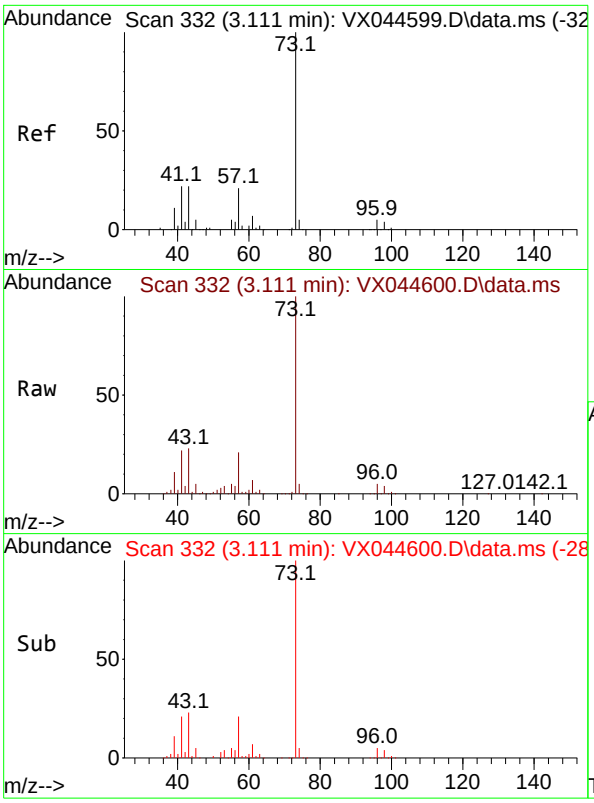


#18
Methyl Acetate
Concen: 103.188 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 43 Resp: 282139

Ion	Ratio	Lower	Upper
43	100		
74	23.1	19.3	28.9



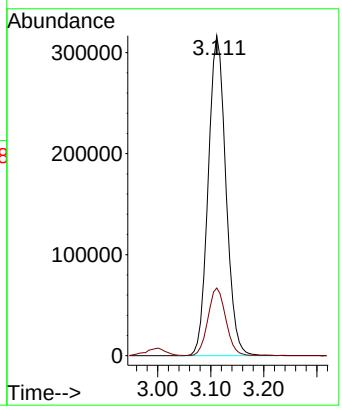


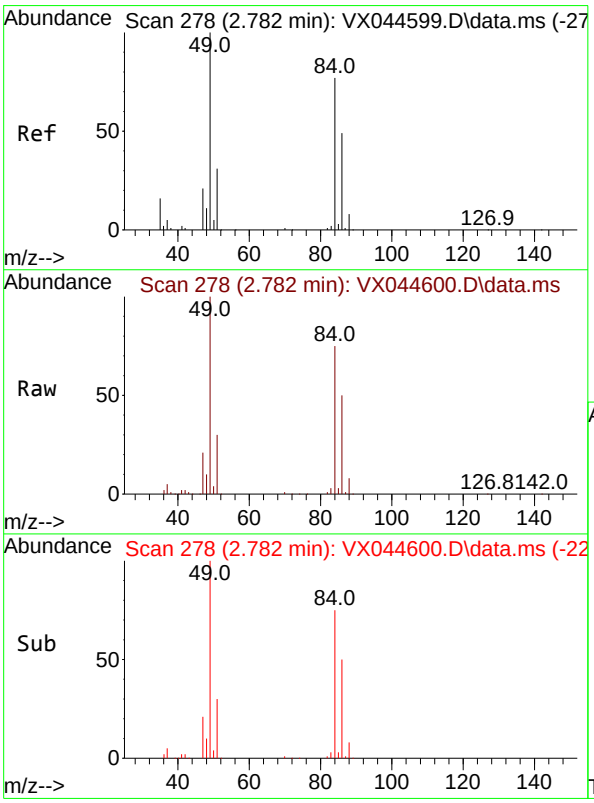
#19
Methyl tert-butyl Ether
Concen: 104.984 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 73 Resp: 733689

Ion	Ratio	Lower	Upper
73	100		
57	21.1	17.0	25.4

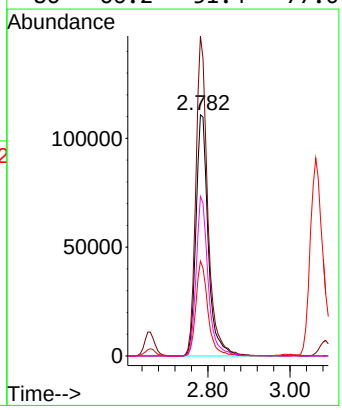


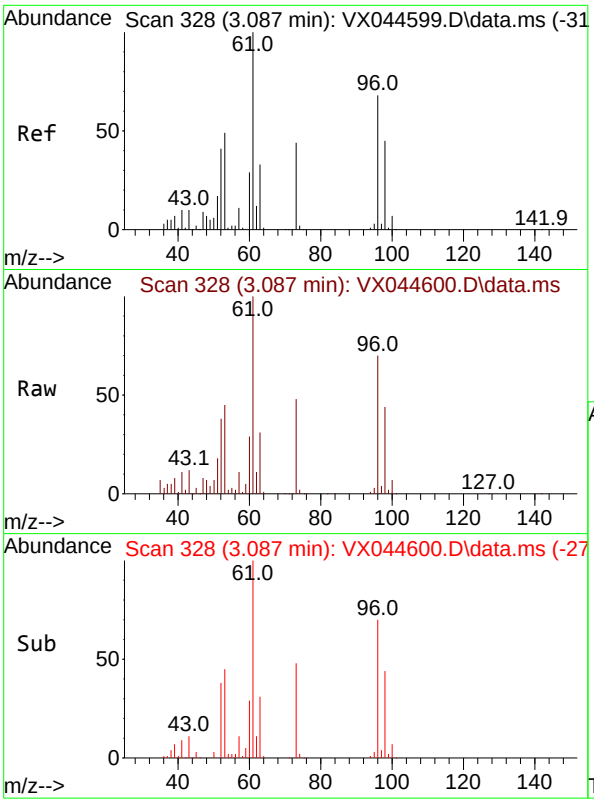


#20
Methylene Chloride
Concen: 97.019 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 84 Resp: 229290

Ion	Ratio	Lower	Upper
84	100		
49	132.7	104.4	156.6
51	39.3	32.0	48.0
86	66.2	51.4	77.0



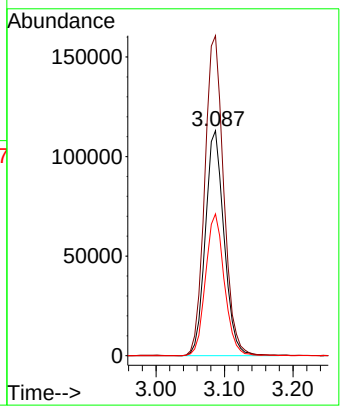


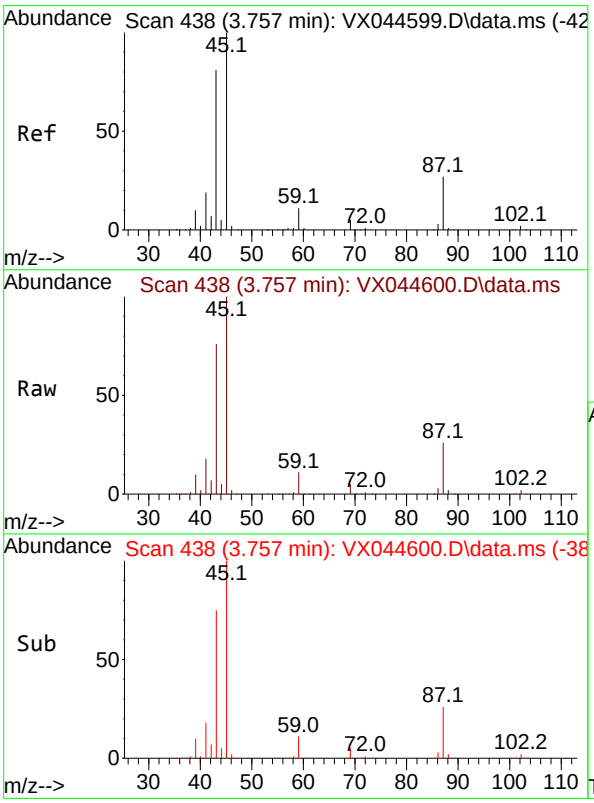
#21
trans-1,2-Dichloroethene
Concen: 102.468 ug/l
RT: 3.087 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 96 Resp: 214461

Ion	Ratio	Lower	Upper
96	100		
61	142.2	118.5	177.7
98	63.0	53.4	80.0

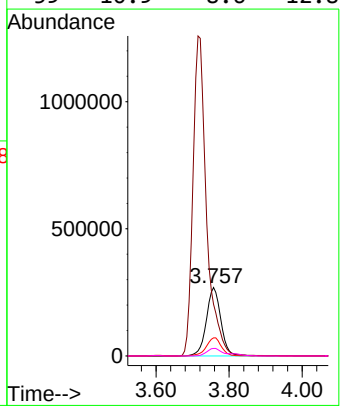


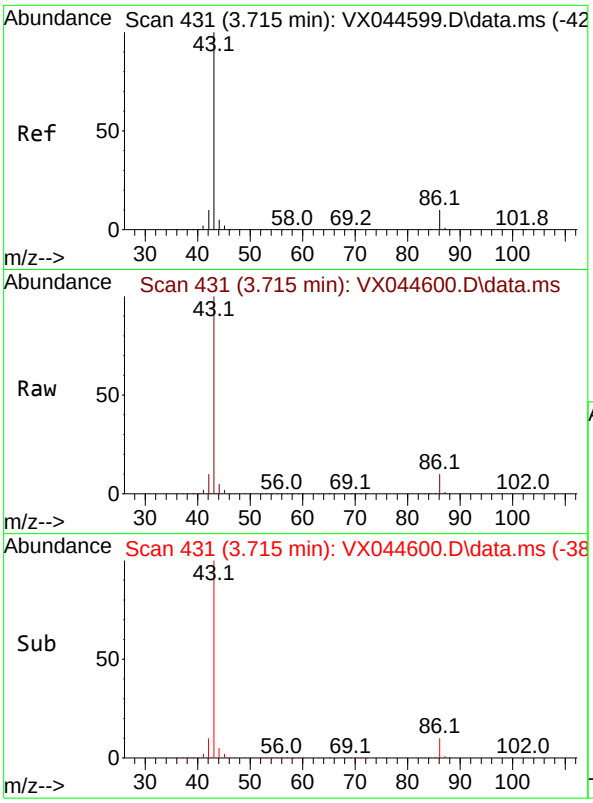


#22
Diisopropyl ether
Concen: 105.701 ug/l
RT: 3.757 min Scan# 438
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 45 Resp: 736946

Ion	Ratio	Lower	Upper
45	100		
43	75.5	64.6	97.0
87	26.2	21.8	32.8
59	10.9	8.6	12.8



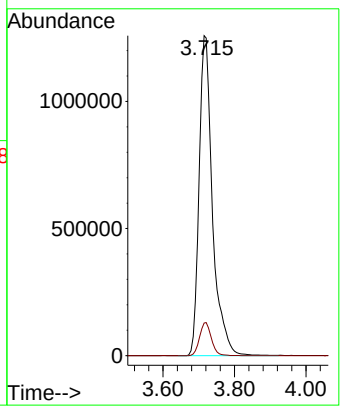


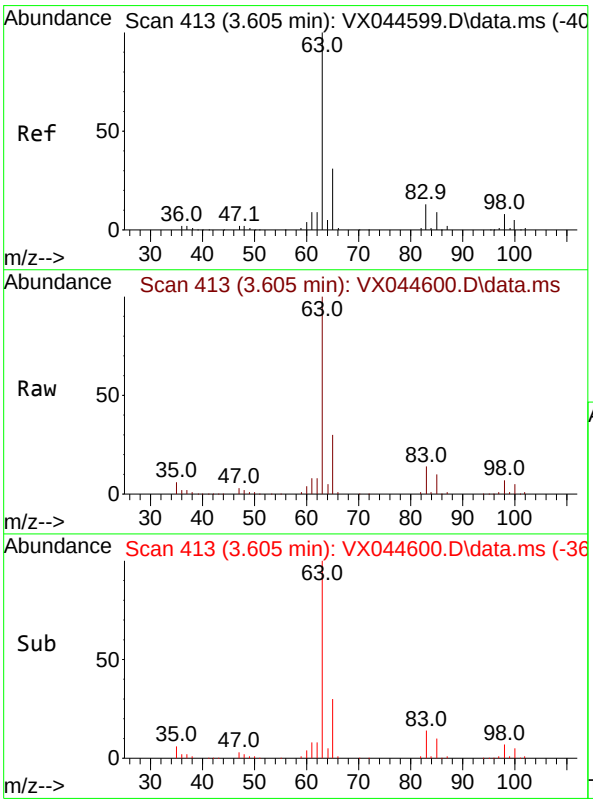
#23
Vinyl Acetate
Concen: 578.791 ug/l
RT: 3.715 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 3263158

Ion	Ratio	Lower	Upper
43	100		
86	10.2	8.1	12.1

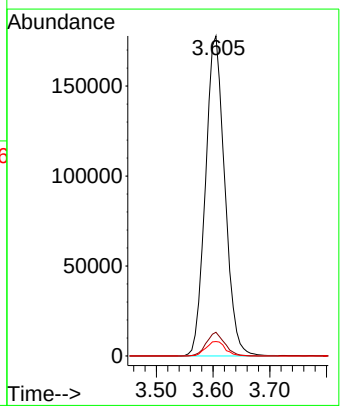


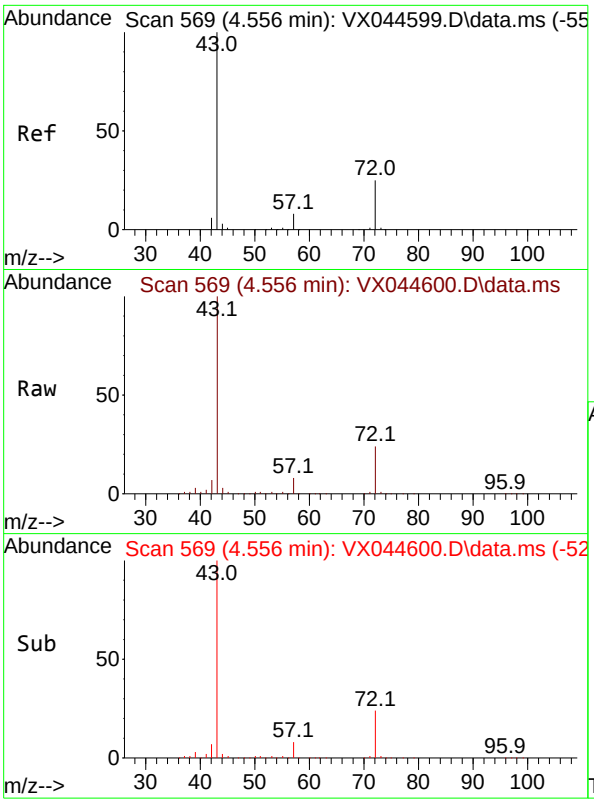


#24
1,1-Dichloroethane
Concen: 103.707 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 63 Resp: 421306

Ion	Ratio	Lower	Upper
63	100		
98	7.4	3.8	11.4
100	4.5	2.4	7.2



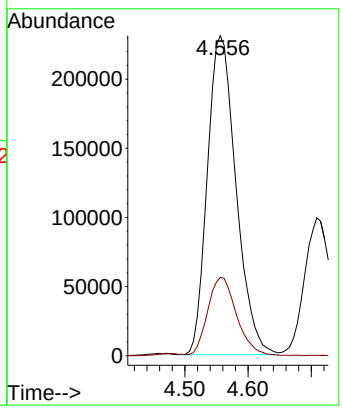


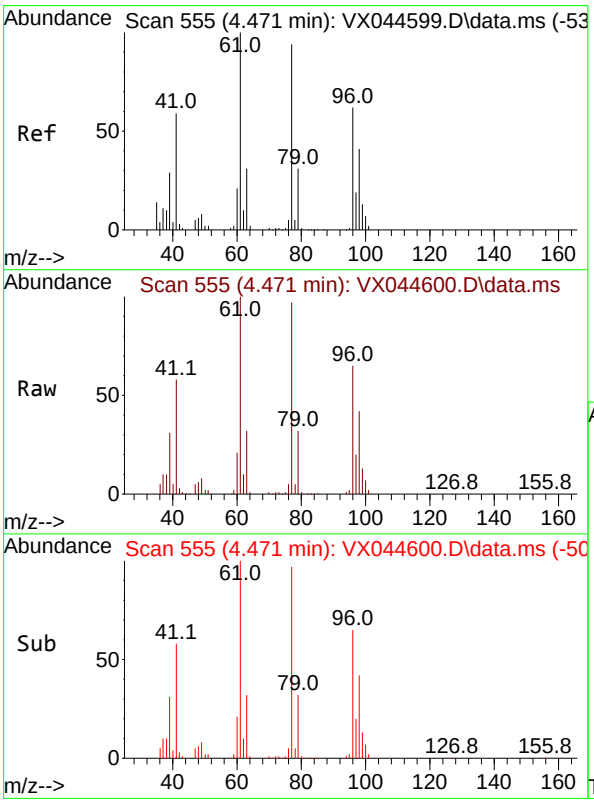
#25
2-Butanone
Concen: 543.775 ug/l
RT: 4.556 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 727090

Ion	Ratio	Lower	Upper
43	100		
72	24.3	20.2	30.2

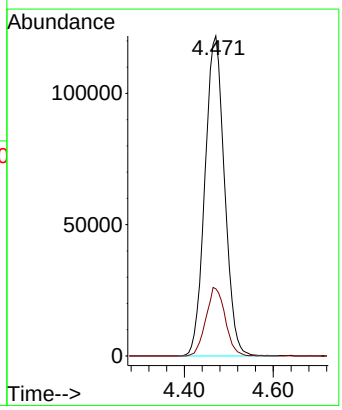


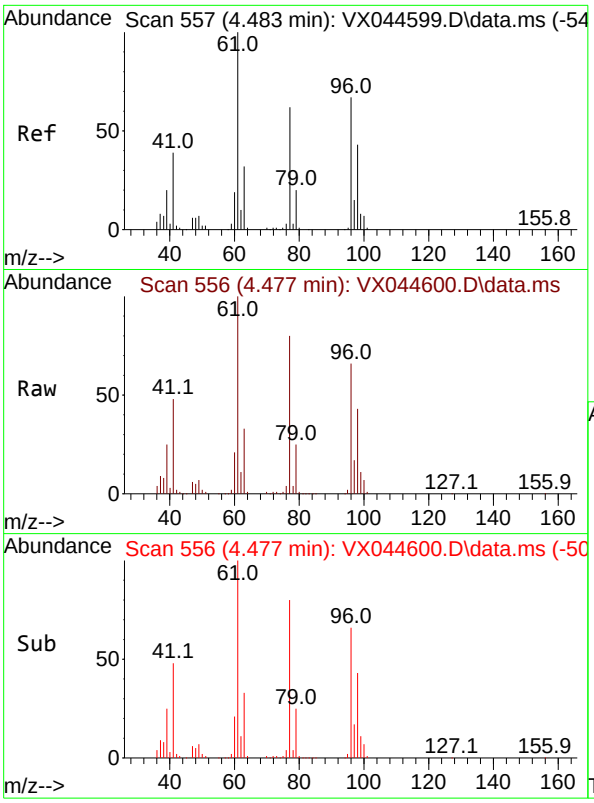


#26
2,2-Dichloropropane
Concen: 106.339 ug/l
RT: 4.471 min Scan# 555
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 77 Resp: 373500

Ion	Ratio	Lower	Upper
77	100		
97	21.1	10.7	32.1



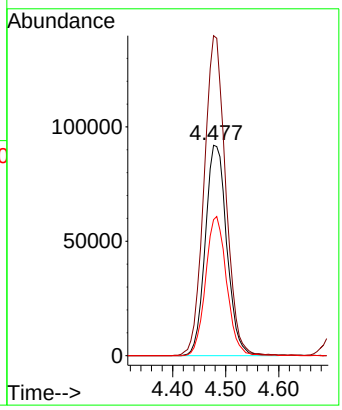


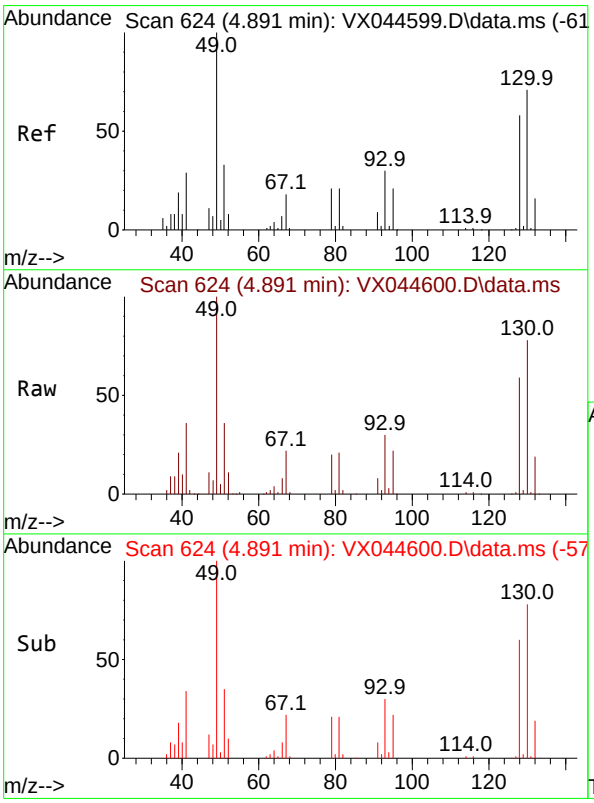
#27
cis-1,2-Dichloroethene
Concen: 101.596 ug/l
RT: 4.477 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 96 Resp: 259280

Ion	Ratio	Lower	Upper
96	100		
61	153.0	0.0	302.8
98	64.6	0.0	130.0

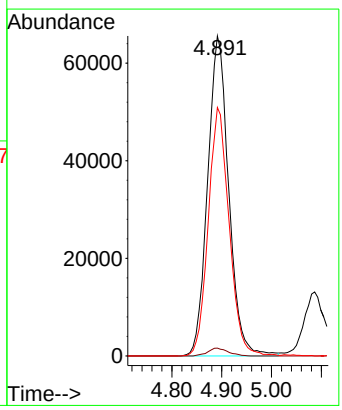


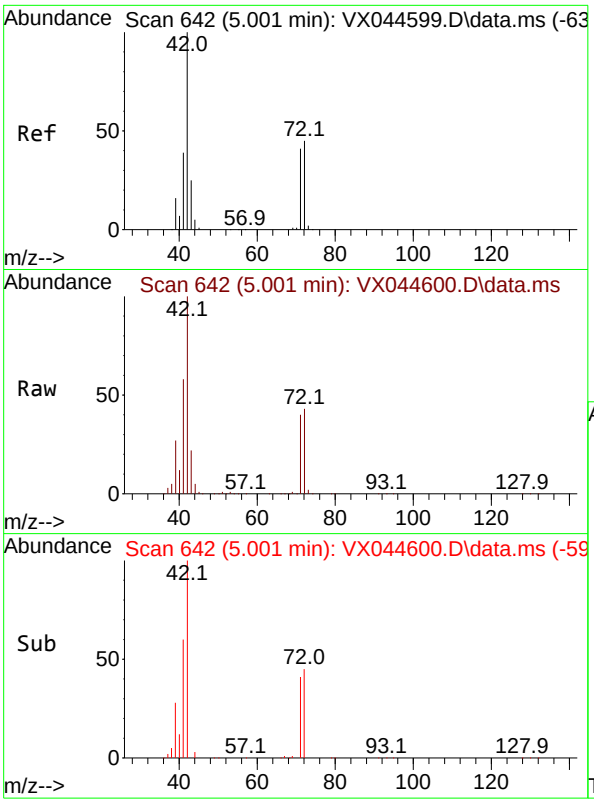


#28
Bromochloromethane
Concen: 101.838 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 49 Resp: 192580

Ion	Ratio	Lower	Upper
49	100		
129	2.4	0.0	4.2
130	76.8	58.8	88.2



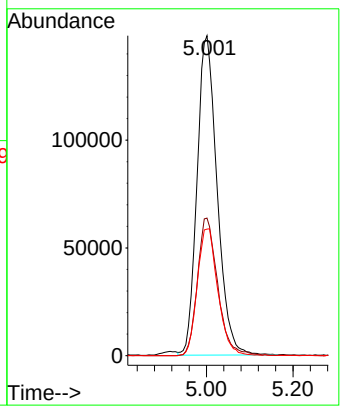


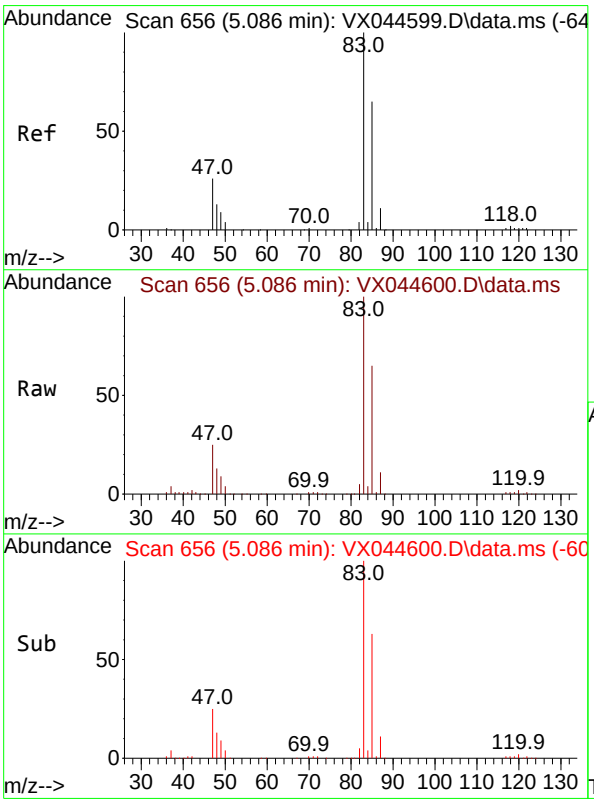
#29
Tetrahydrofuran
Concen: 521.636 ug/l
RT: 5.001 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 42 Resp: 477636

Ion	Ratio	Lower	Upper
42	100		
72	43.6	36.1	54.1
71	40.7	33.0	49.6

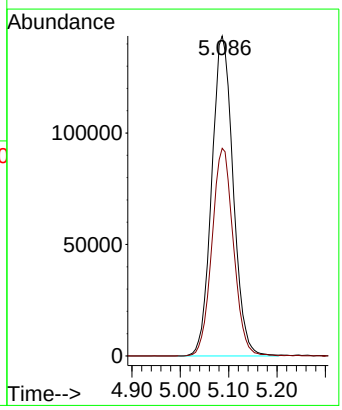


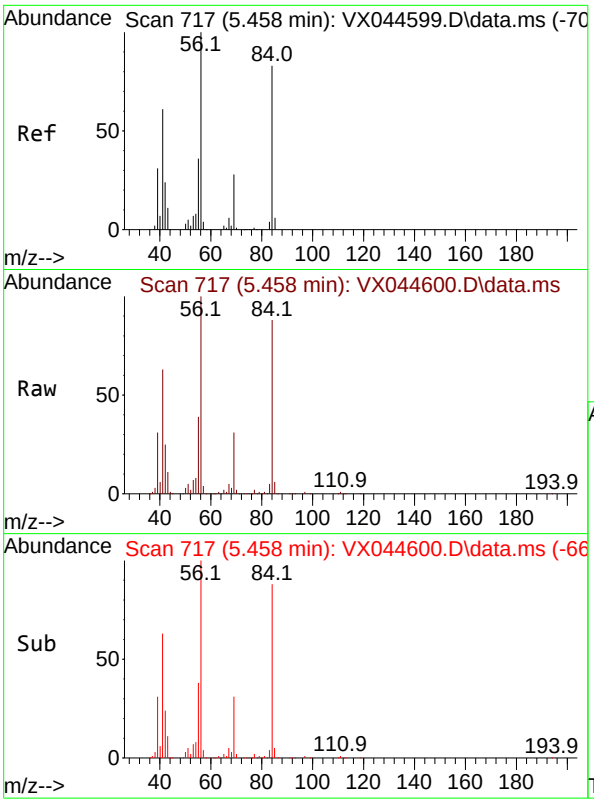


#30
Chloroform
Concen: 100.708 ug/l
RT: 5.086 min Scan# 656
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 83 Resp: 441057

Ion	Ratio	Lower	Upper
83	100		
85	64.9	52.3	78.5



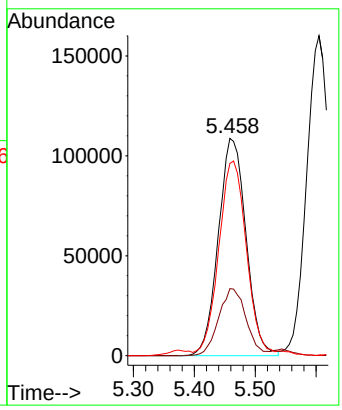


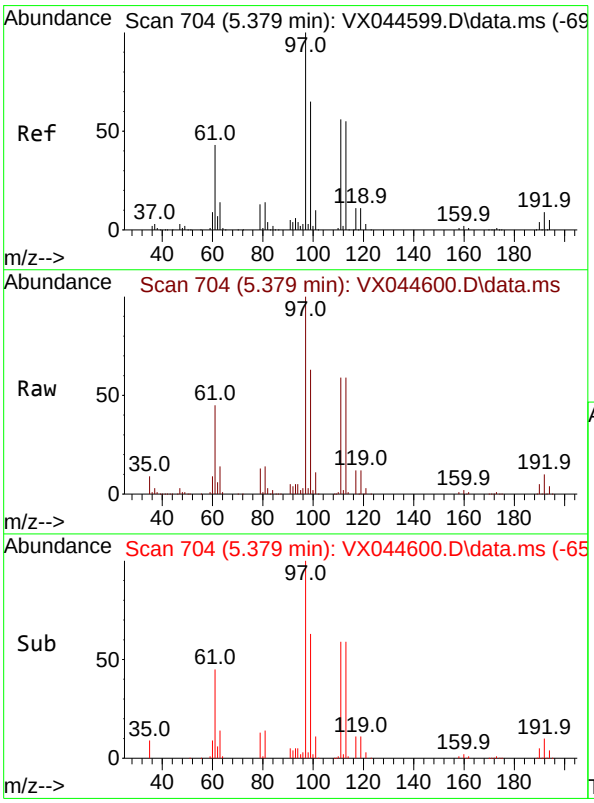
#31
Cyclohexane
Concen: 102.984 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 56 Resp: 343501

Ion	Ratio	Lower	Upper
56	100		
69	30.9	22.2	33.4
84	86.3	66.6	100.0

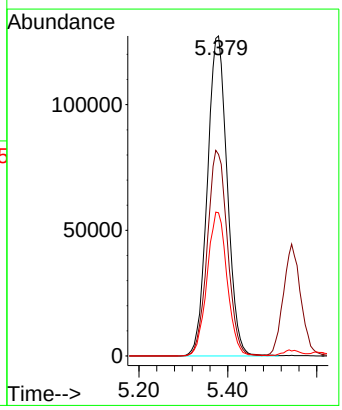


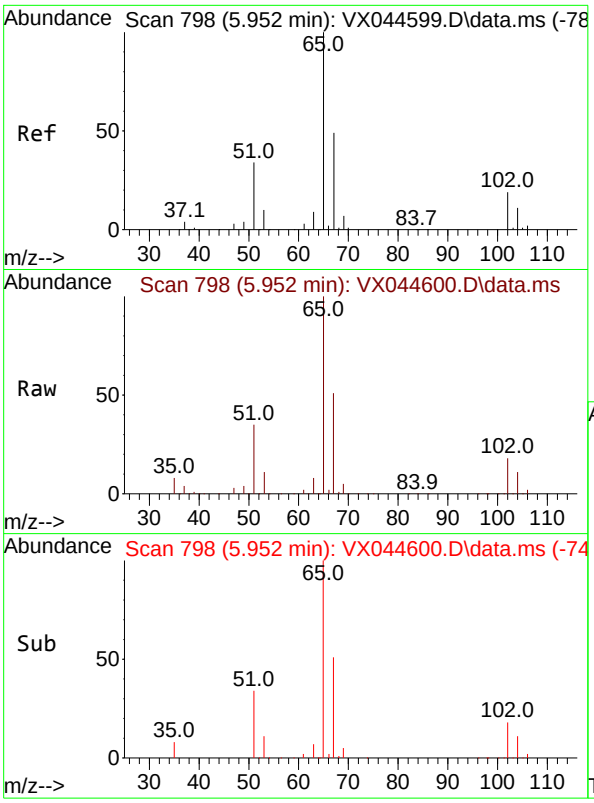


#32
1,1,1-Trichloroethane
Concen: 107.215 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 97 Resp: 395161

Ion	Ratio	Lower	Upper
97	100		
99	65.0	52.1	78.1
61	45.5	36.8	55.2



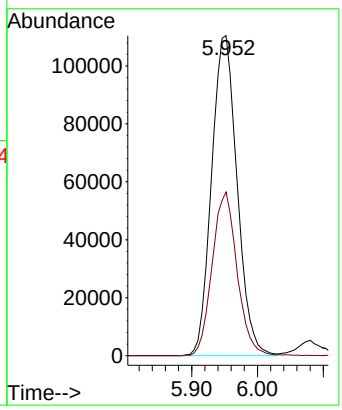


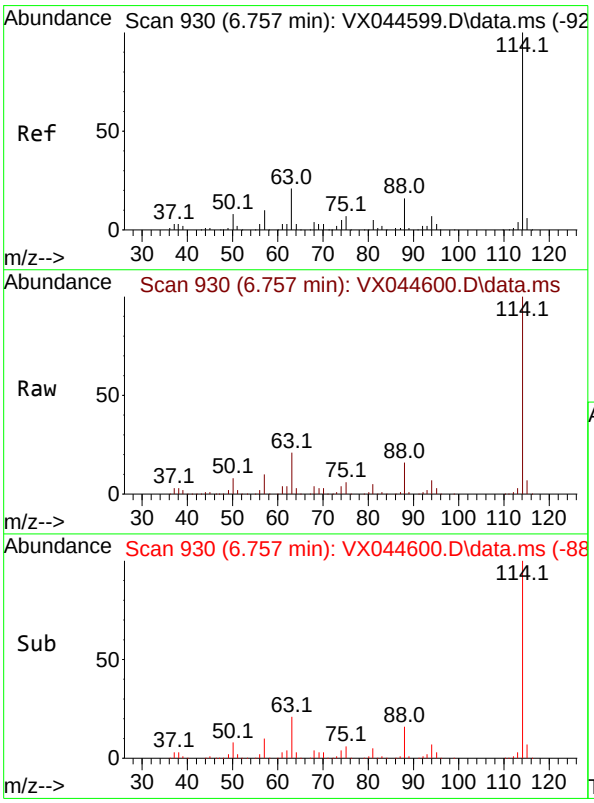
#33
1,2-Dichloroethane-d4
Concen: 101.563 ug/l
RT: 5.952 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 65 Resp: 298512

Ion	Ratio	Lower	Upper
65	100		
67	49.9	0.0	99.0

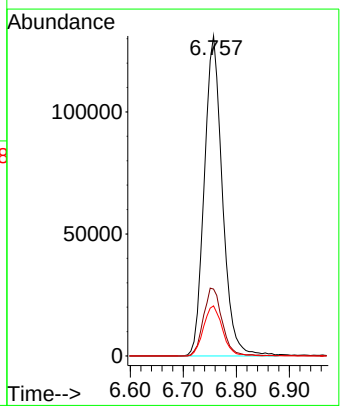


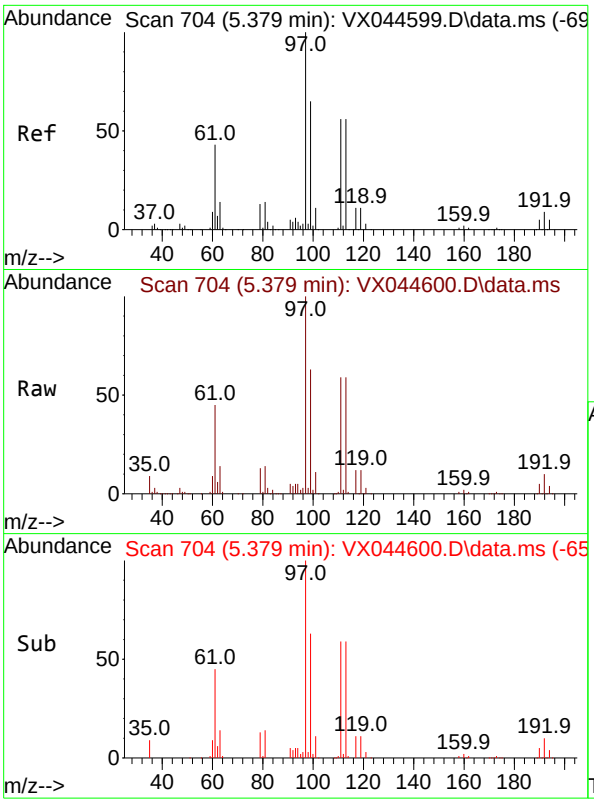


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion:114 Resp: 310906

Ion	Ratio	Lower	Upper
114	100		
63	20.9	0.0	42.6
88	15.6	0.0	32.6



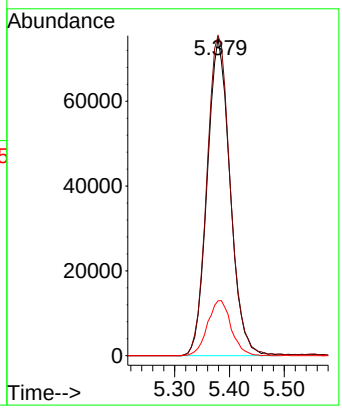


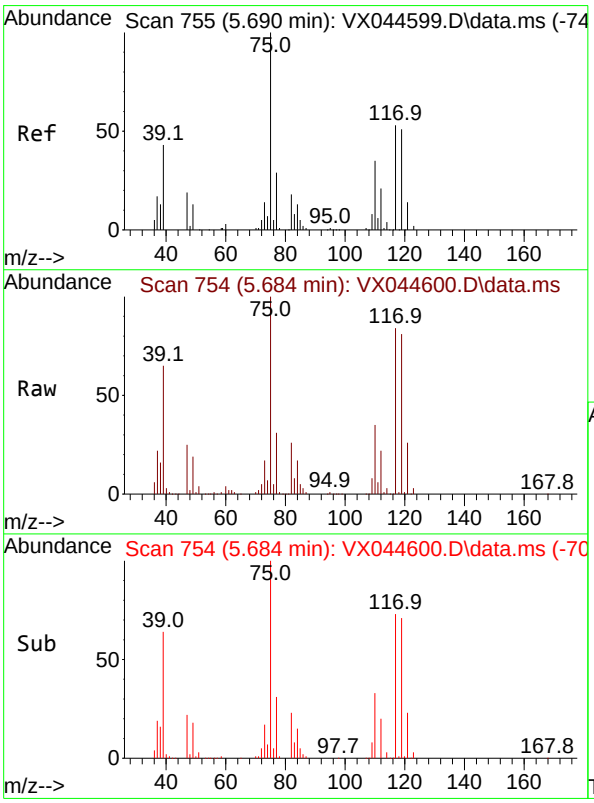
#35
Dibromofluoromethane
Concen: 101.626 ug/l
RT: 5.379 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:113 Resp: 216660

Ion	Ratio	Lower	Upper
113	100		
111	103.4	83.3	124.9
192	18.0	14.3	21.5

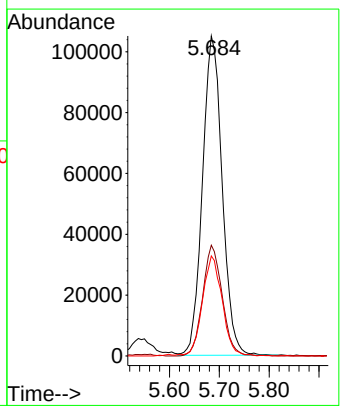


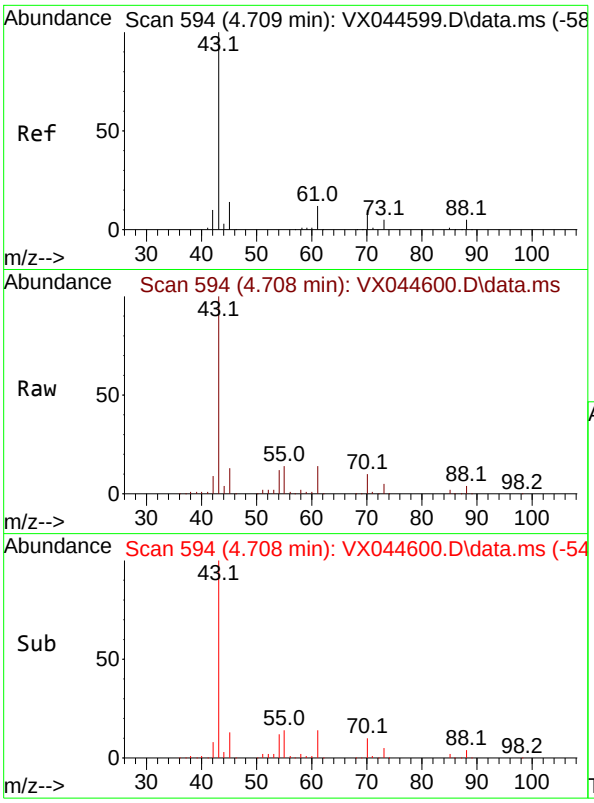


#36
1,1-Dichloropropene
Concen: 104.631 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 75 Resp: 288443

Ion	Ratio	Lower	Upper
75	100		
110	34.4	17.3	51.9
77	31.1	24.7	37.1



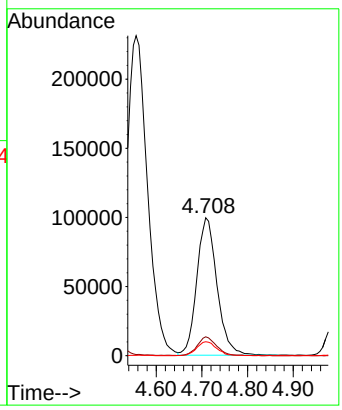


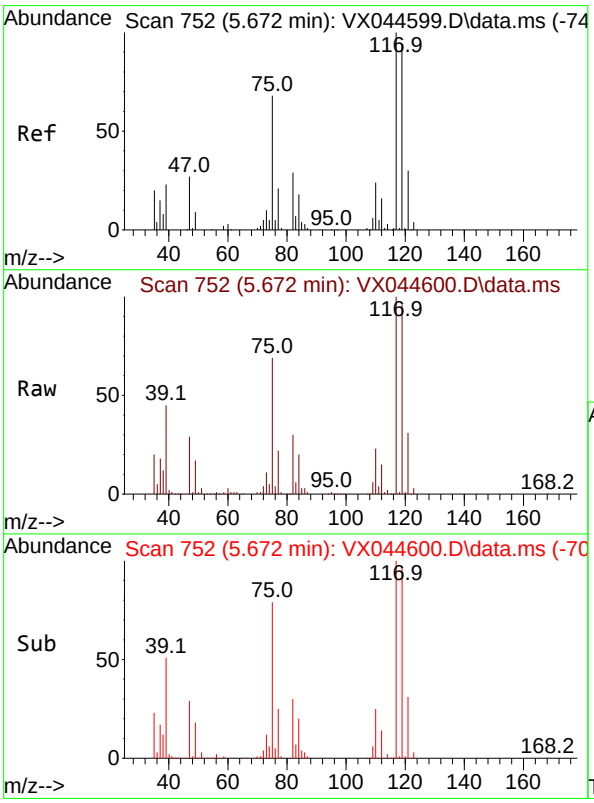
#37
Ethyl Acetate
Concen: 108.495 ug/l
RT: 4.708 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 305727

Ion	Ratio	Lower	Upper
43	100		
61	12.9	9.9	14.9
70	10.1	8.0	12.0

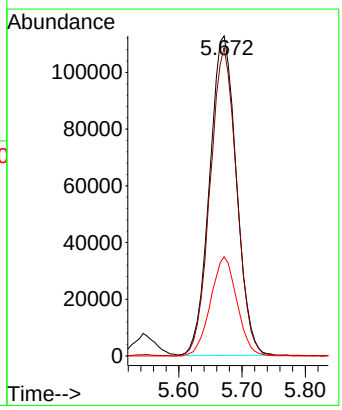


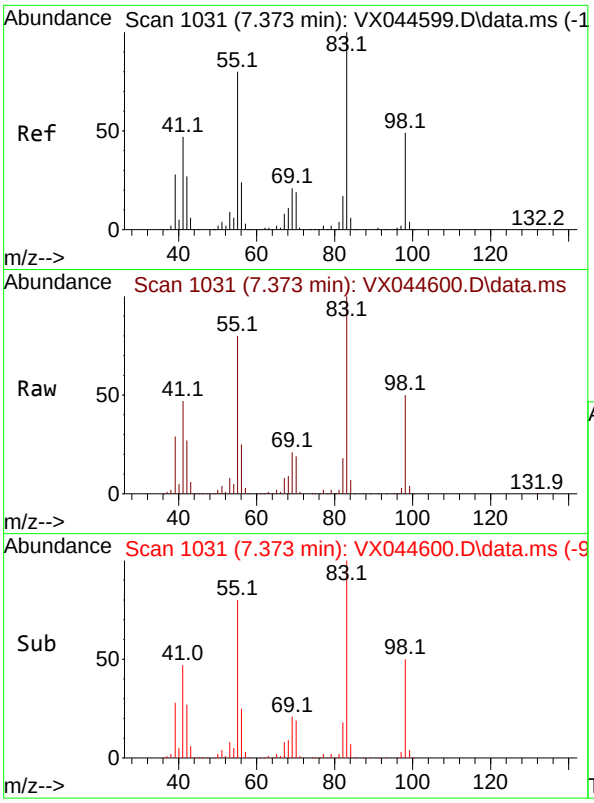


#38
Carbon Tetrachloride
Concen: 108.573 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion:117 Resp: 332090

Ion	Ratio	Lower	Upper
117	100		
119	96.4	74.5	111.7
121	31.1	24.1	36.1



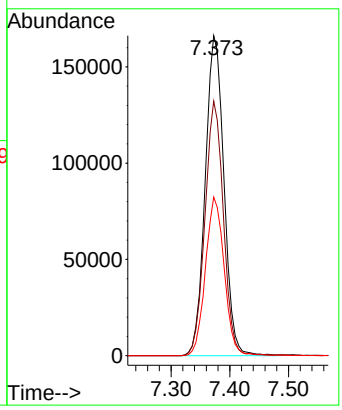


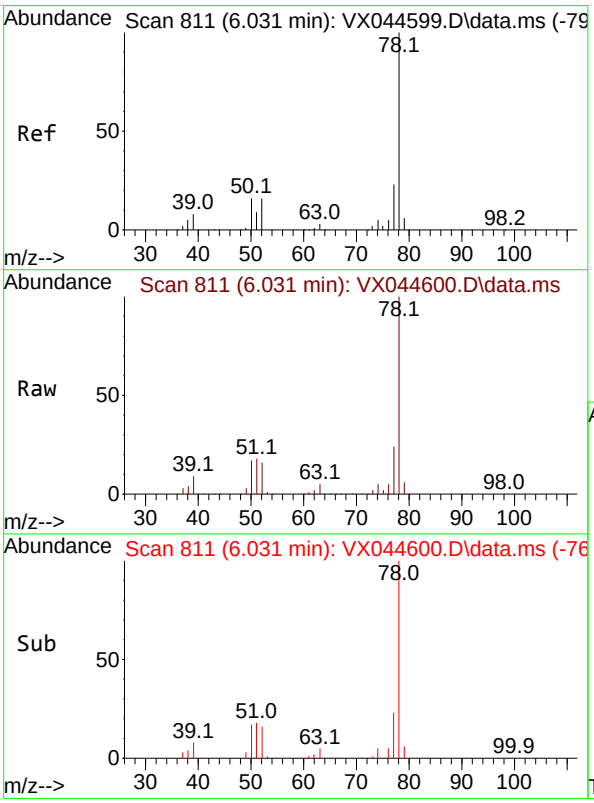
#39
Methylcyclohexane
Concen: 104.721 ug/l
RT: 7.373 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 83 Resp: 368363

Ion	Ratio	Lower	Upper
83	100		
55	79.6	64.1	96.1
98	49.5	38.9	58.3

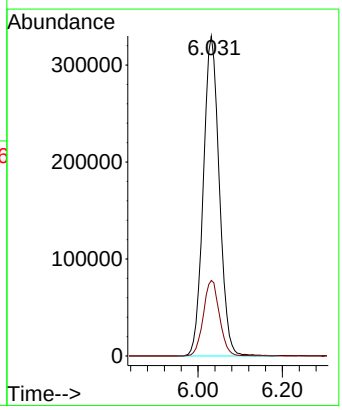


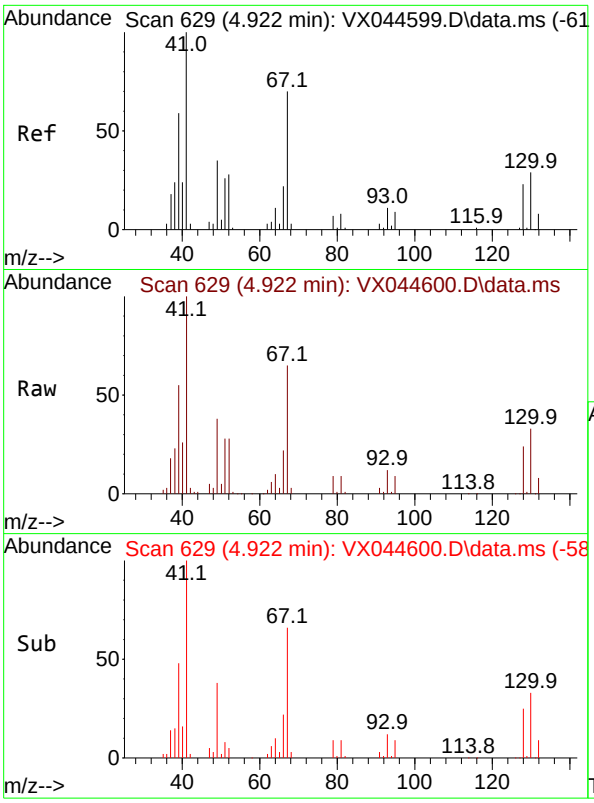


#40
Benzene
Concen: 100.244 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 78 Resp: 870111

Ion	Ratio	Lower	Upper
78	100		
77	23.6	18.8	28.2



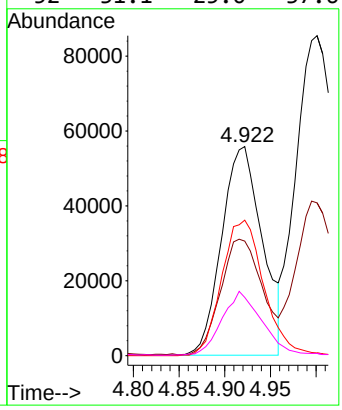


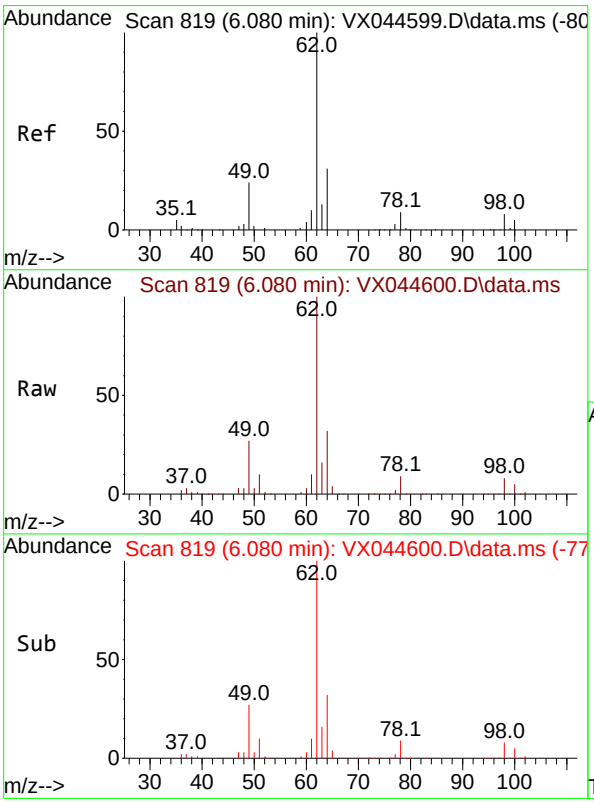
#41
Methacrylonitrile
Concen: 113.877 ug/l
RT: 4.922 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 41 Resp: 172379

Ion	Ratio	Lower	Upper
41	100		
39	57.1	47.0	70.4
67	68.0	57.4	86.2
52	31.1	25.0	37.6

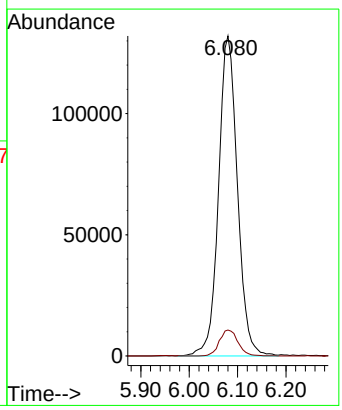


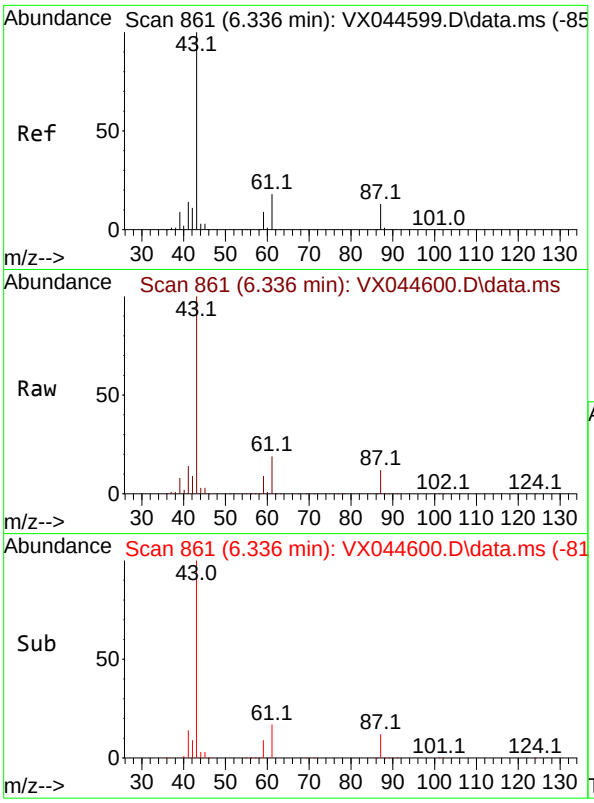


#42
1,2-Dichloroethane
Concen: 105.631 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 62 Resp: 358563

Ion	Ratio	Lower	Upper
62	100		
98	8.0	0.0	15.8



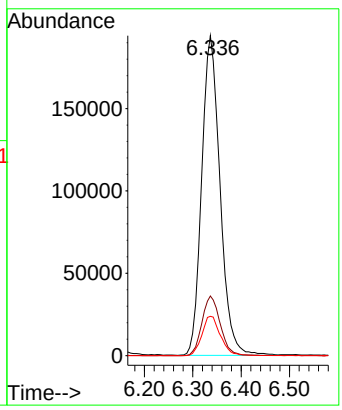


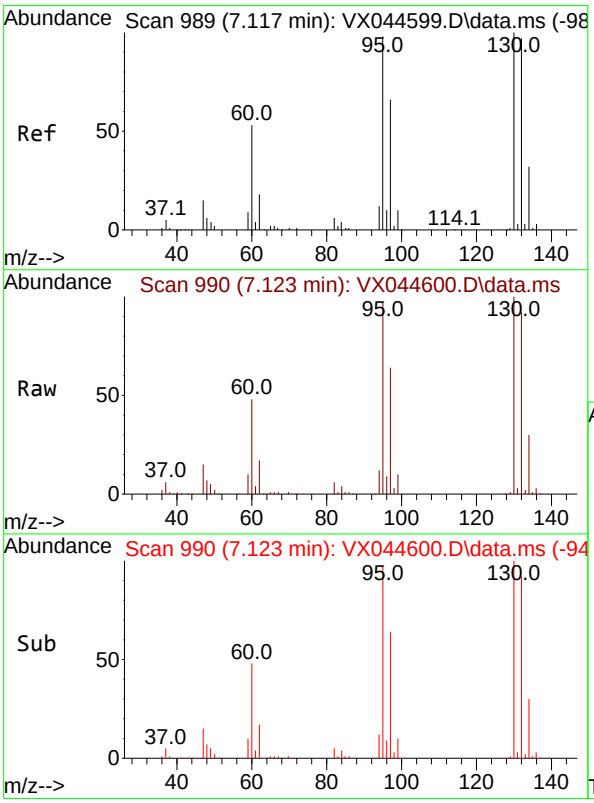
#43
Isopropyl Acetate
Concen: 110.008 ug/l
RT: 6.336 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 511813

Ion	Ratio	Lower	Upper
43	100		
61	18.6	14.5	21.7
87	12.4	10.1	15.1

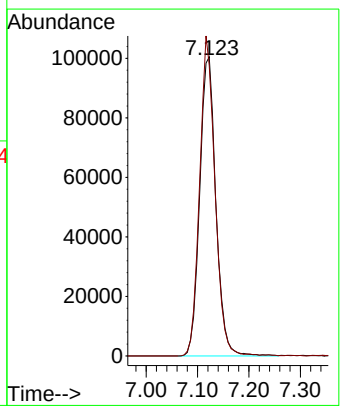


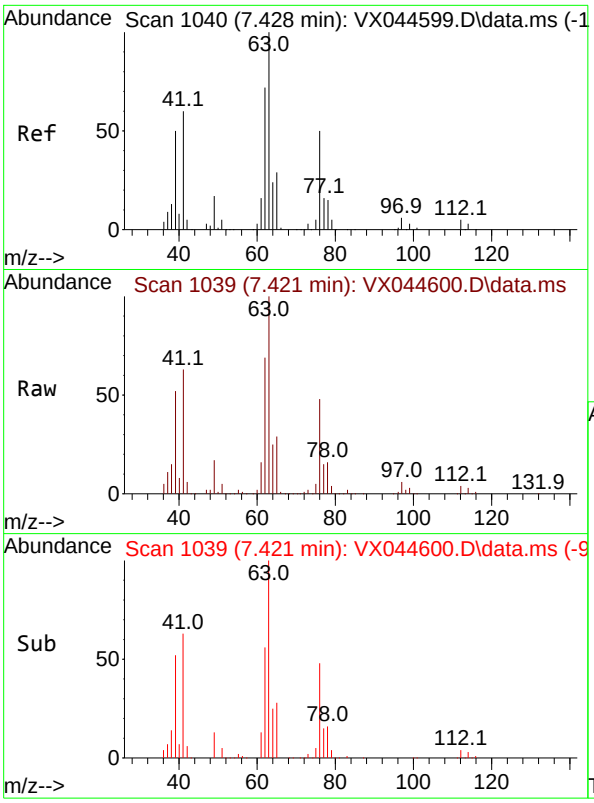


#44
Trichloroethene
Concen: 98.990 ug/l
RT: 7.123 min Scan# 990
Delta R.T. 0.006 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion:130 Resp: 219638

Ion	Ratio	Lower	Upper
130	100		
95	97.1	0.0	195.6



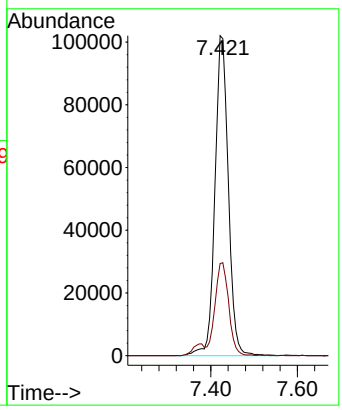


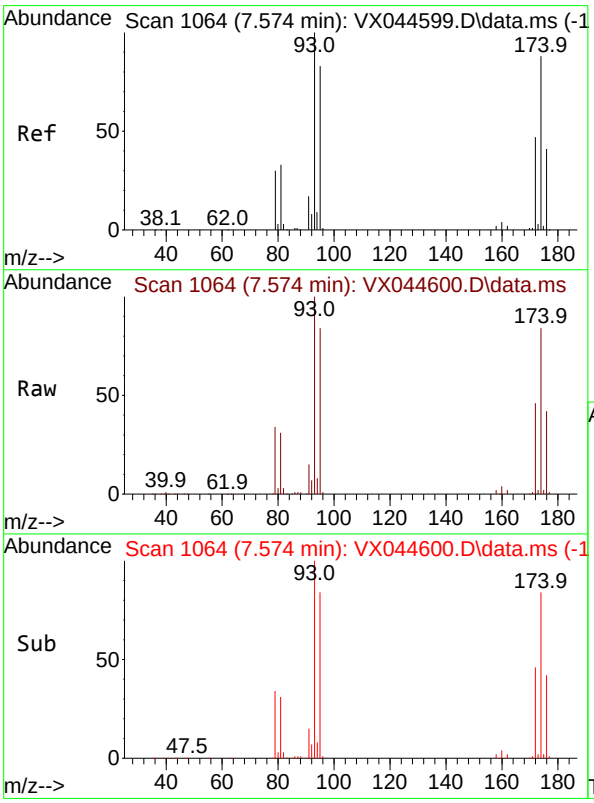
#45
1,2-Dichloropropane
Concen: 103.636 ug/l
RT: 7.421 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 63 Resp: 219320

Ion	Ratio	Lower	Upper
63	100		
65	28.8	23.0	34.4

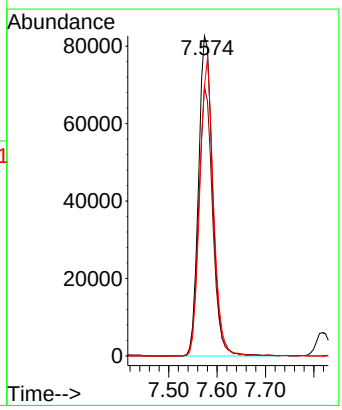


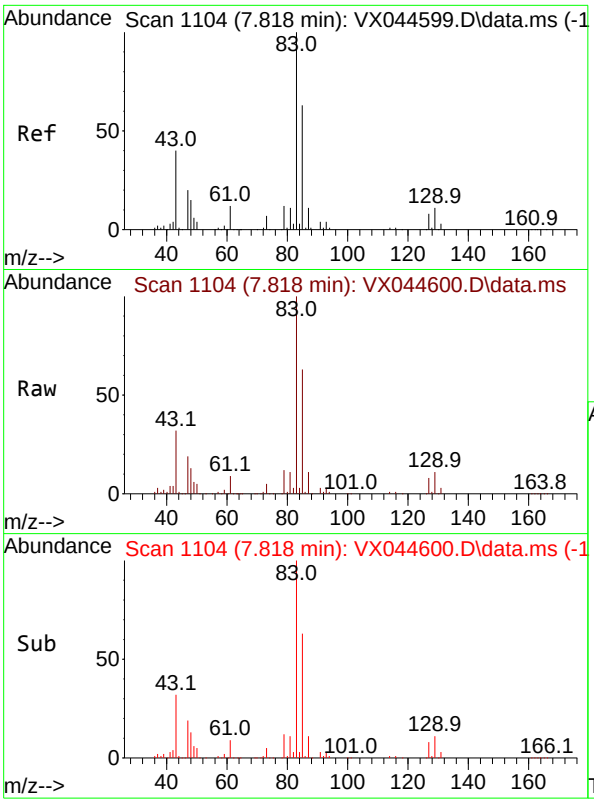


#46
Dibromomethane
Concen: 101.452 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 93 Resp: 166973

Ion	Ratio	Lower	Upper
93	100		
95	82.9	65.8	98.6
174	90.4	73.4	110.0



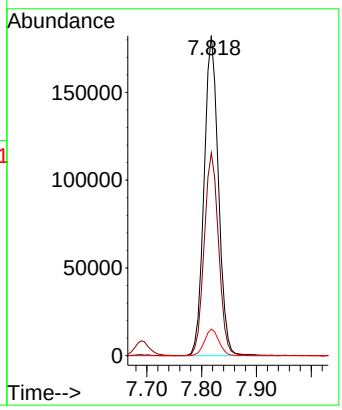


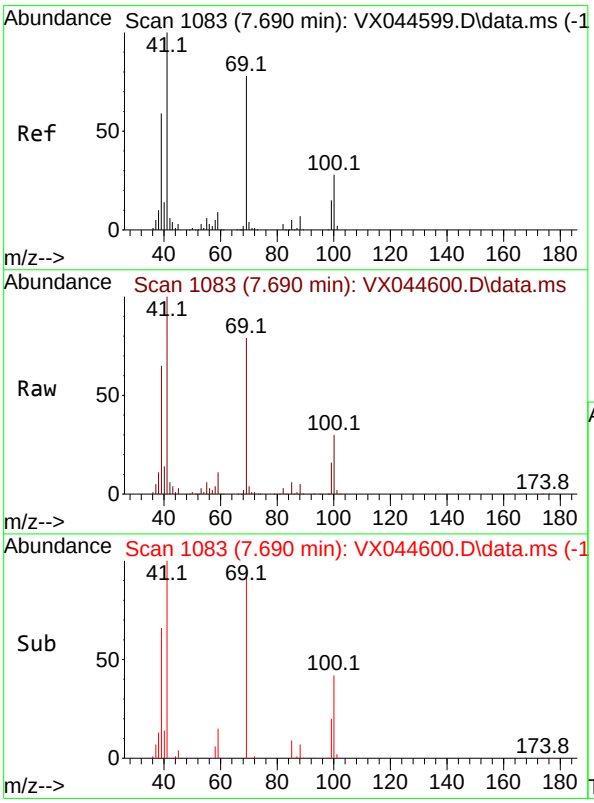
#47
Bromodichloromethane
Concen: 109.962 ug/l
RT: 7.818 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 83 Resp: 329340

Ion	Ratio	Lower	Upper
83	100		
85	63.3	50.4	75.6
127	8.3	6.2	9.4

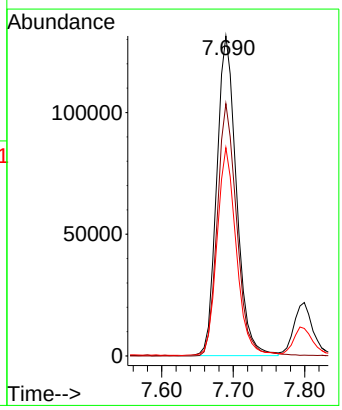


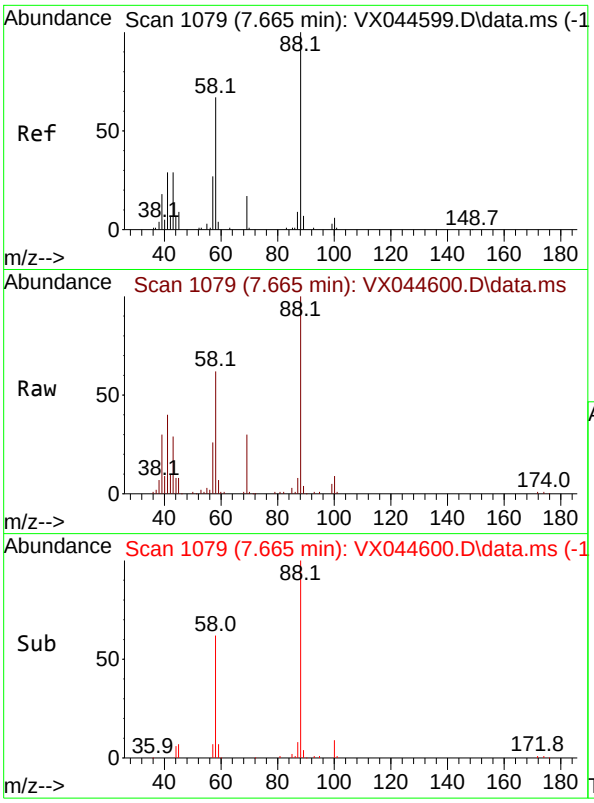


#48
Methyl methacrylate
Concen: 113.277 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 41 Resp: 251364

Ion	Ratio	Lower	Upper
41	100		
69	78.5	62.9	94.3
39	63.8	48.9	73.3



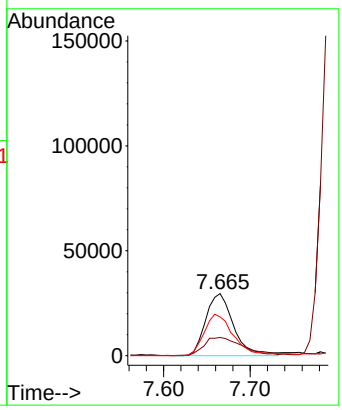


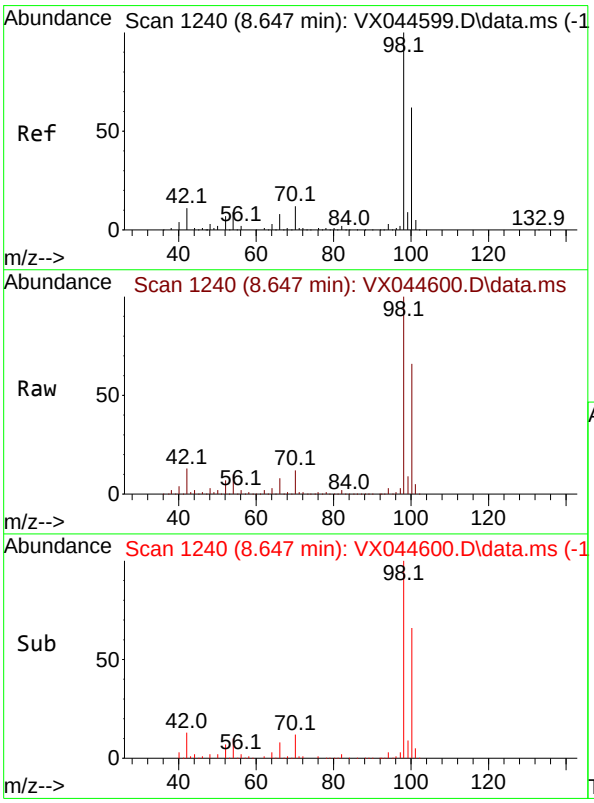
#49
1,4-Dioxane
Concen: 2030.048 ug/l
RT: 7.665 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 88 Resp: 66197

Ion	Ratio	Lower	Upper
88	100		
43	40.1	29.5	44.3
58	72.1	56.3	84.5

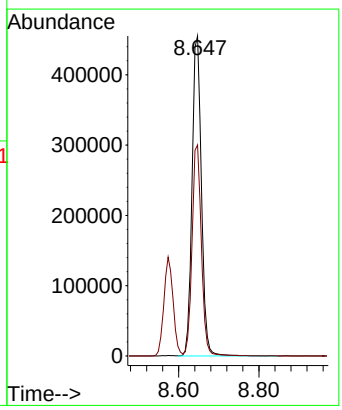


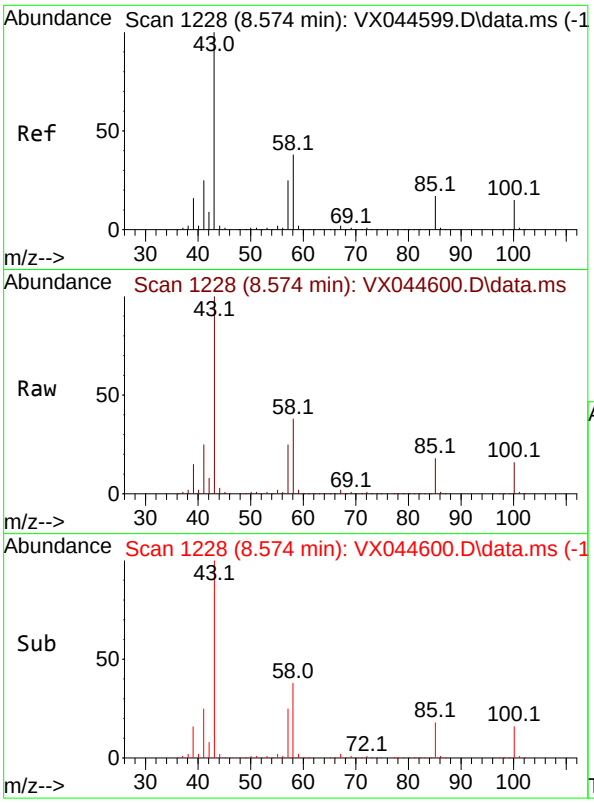


#50
Toluene-d8
Concen: 101.194 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 98 Resp: 736918

Ion	Ratio	Lower	Upper
98	100		
100	65.4	52.5	78.7



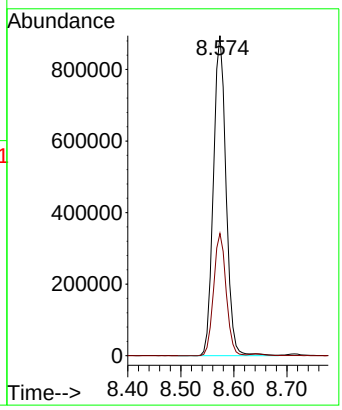


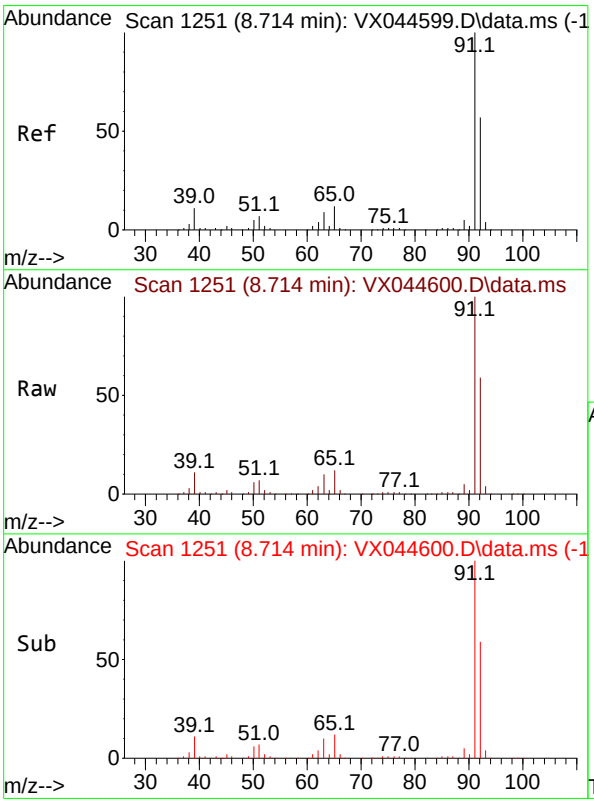
#51
4-Methyl-2-Pentanone
Concen: 545.612 ug/l
RT: 8.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 1483866

Ion	Ratio	Lower	Upper
43	100		
58	37.8	30.0	45.0

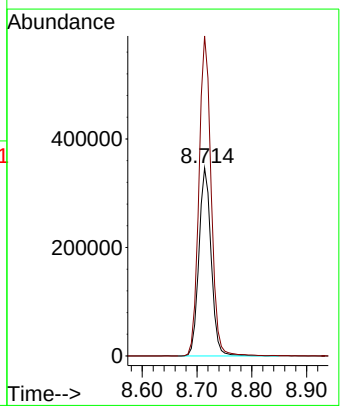


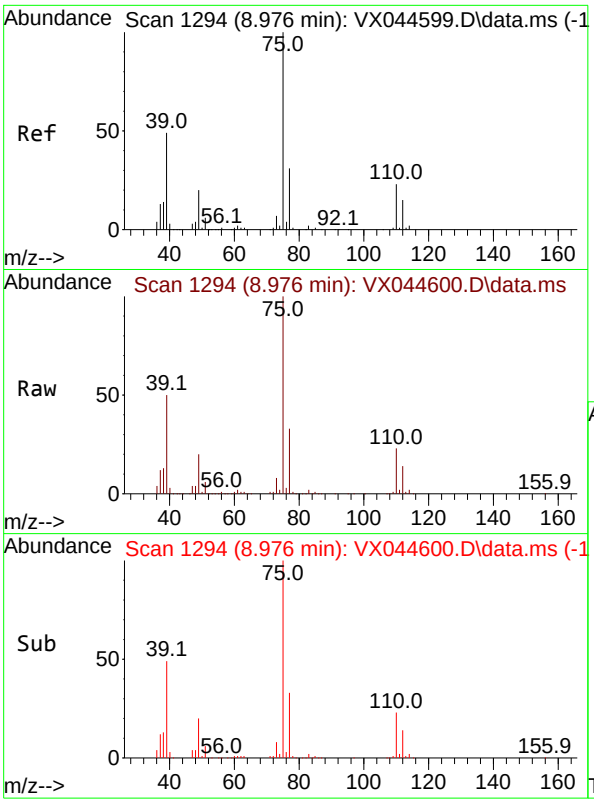


#52
Toluene
Concen: 102.712 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 92 Resp: 537927

Ion	Ratio	Lower	Upper
92	100		
91	169.3	140.6	210.8



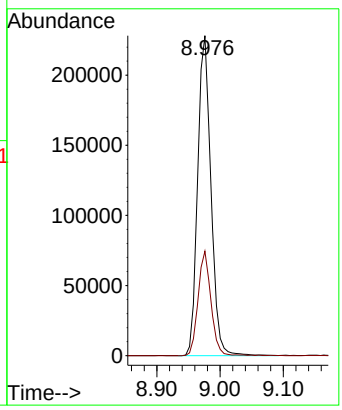


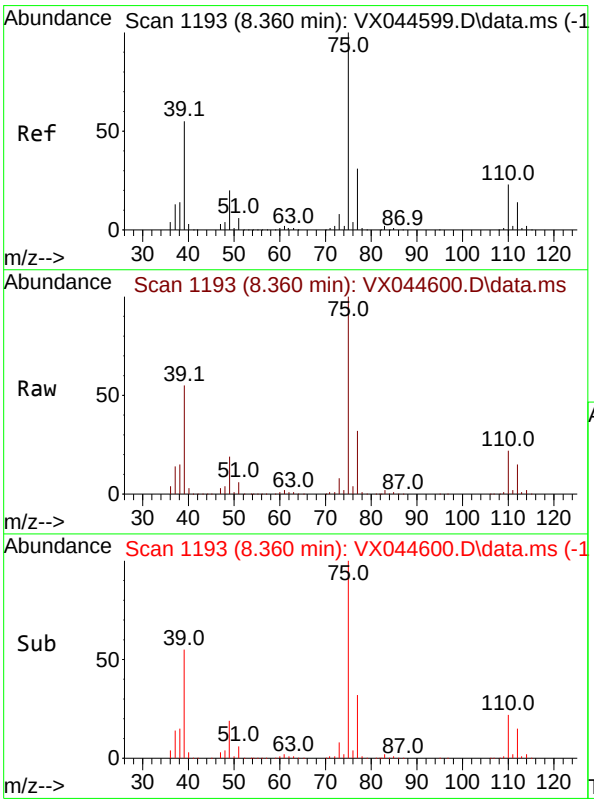
#53
t-1,3-Dichloropropene
Concen: 116.711 ug/l
RT: 8.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 75 Resp: 334122

Ion	Ratio	Lower	Upper
75	100		
77	32.6	24.8	37.2

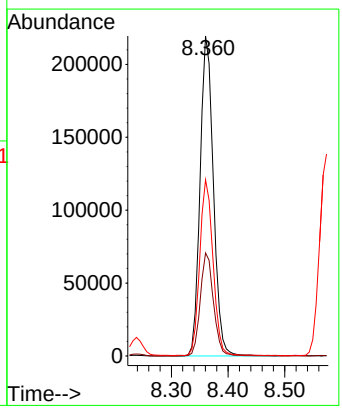


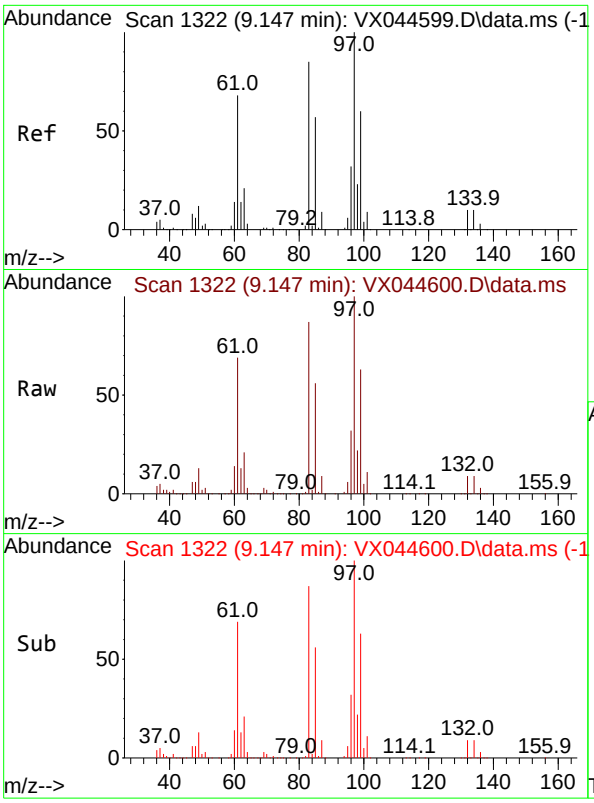


#54
cis-1,3-Dichloropropene
Concen: 111.049 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 75 Resp: 357294

Ion	Ratio	Lower	Upper
75	100		
77	32.2	24.5	36.7
39	54.9	44.3	66.5



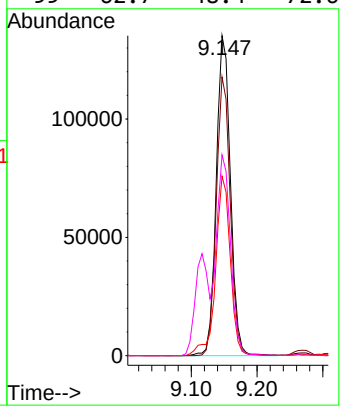


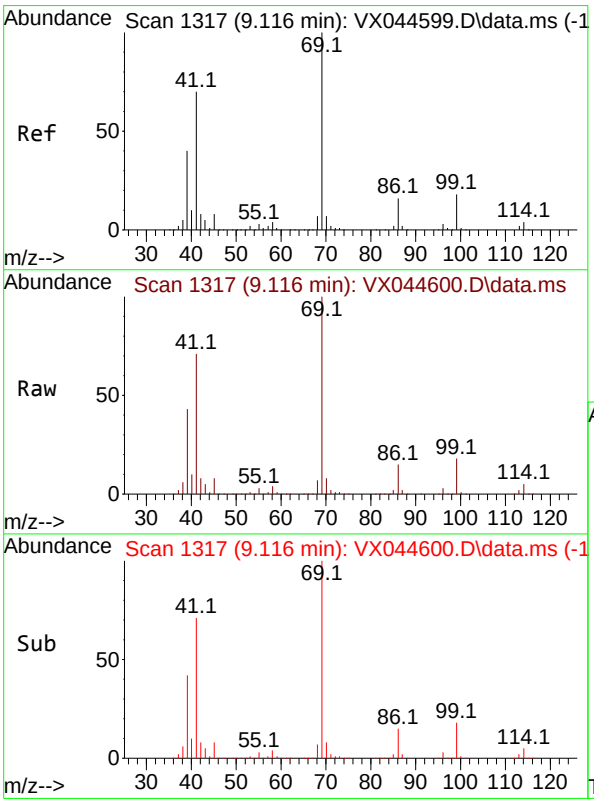
#55
1,1,2-Trichloroethane
Concen: 98.770 ug/l
RT: 9.147 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 97 Resp: 202789

Ion	Ratio	Lower	Upper
97	100		
83	87.1	68.0	102.0
85	56.1	45.4	68.0
99	62.7	48.4	72.6

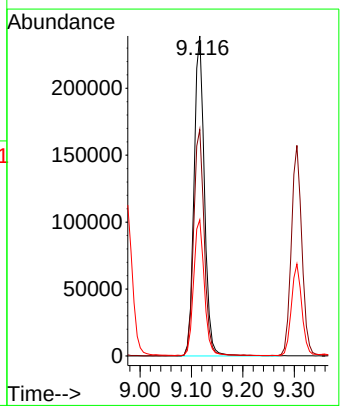


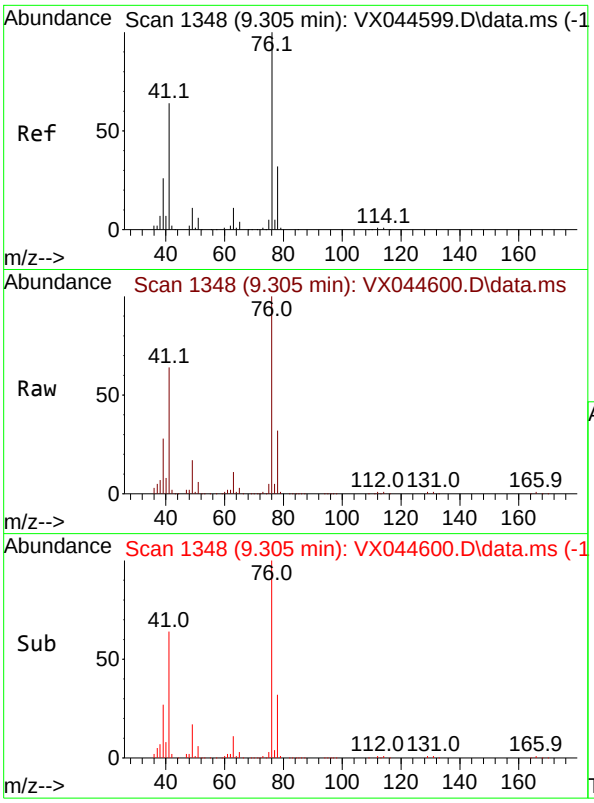


#56
Ethyl methacrylate
Concen: 112.594 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 69 Resp: 336196

Ion	Ratio	Lower	Upper
69	100		
41	72.1	57.7	86.5
39	43.5	33.7	50.5



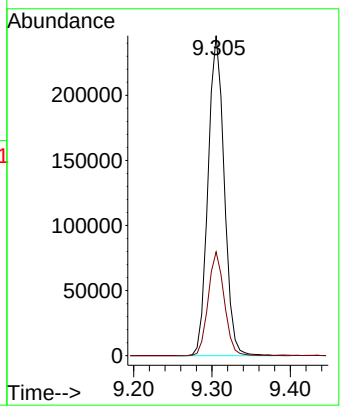


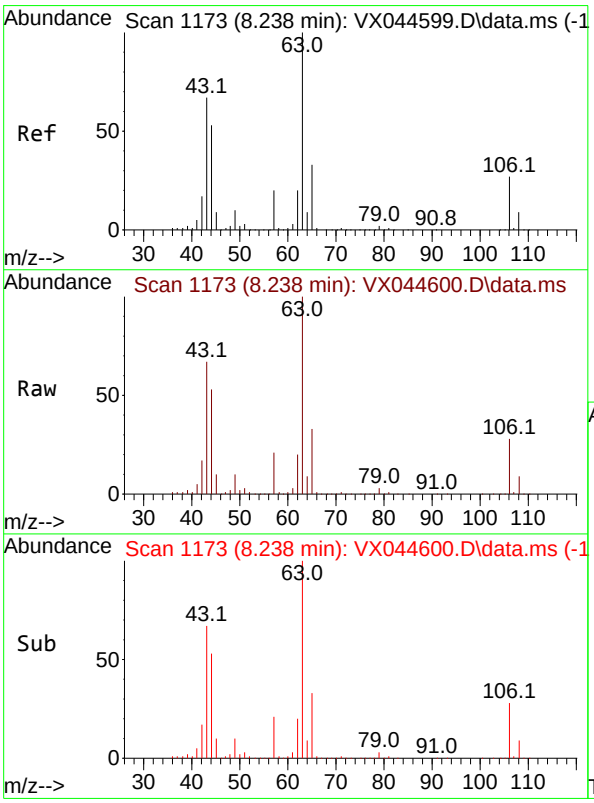
#57
1,3-Dichloropropane
Concen: 102.044 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 76 Resp: 351820

Ion	Ratio	Lower	Upper
76	100		
78	32.3	25.8	38.8

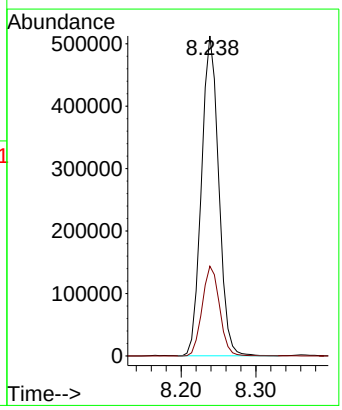


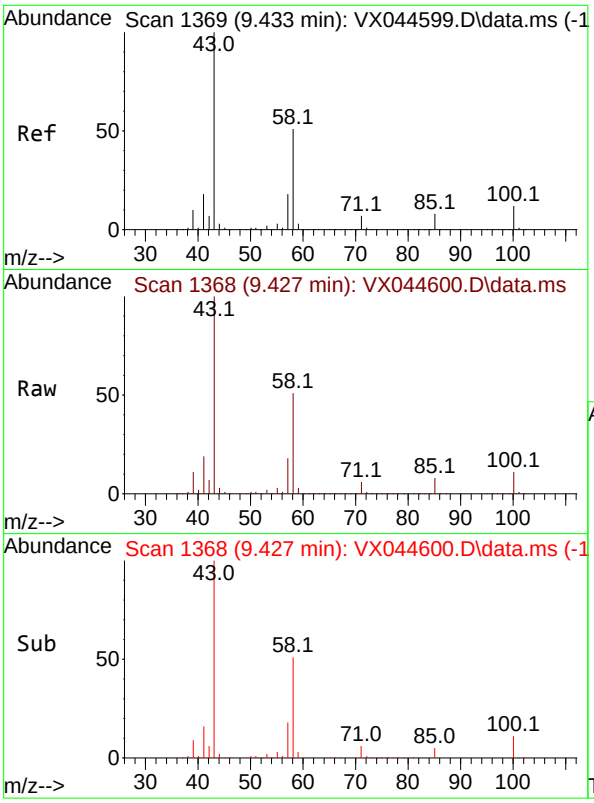


#58
2-Chloroethyl Vinyl ether
Concen: 554.192 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 63 Resp: 820346

Ion	Ratio	Lower	Upper
63	100		
106	28.3	22.4	33.6



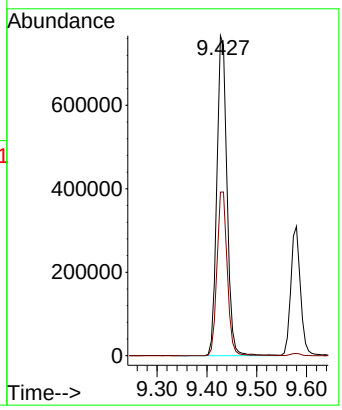


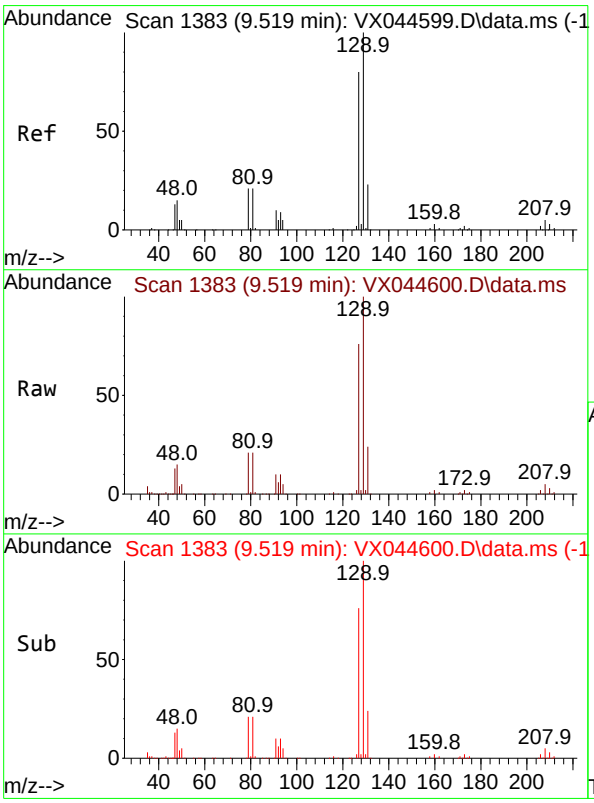
#59
2-Hexanone
Concen: 562.682 ug/l
RT: 9.427 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 1082252

Ion	Ratio	Lower	Upper
43	100		
58	51.9	25.4	76.4

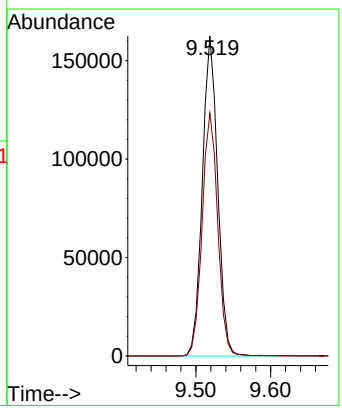


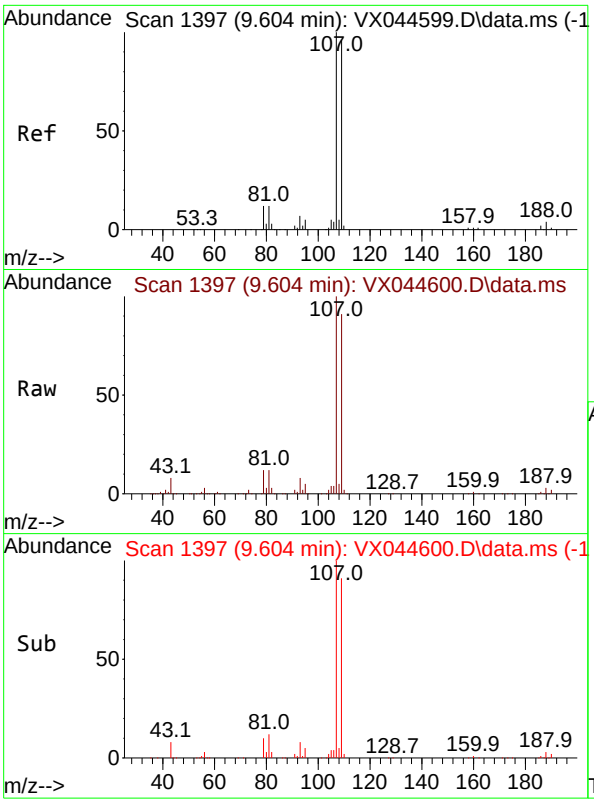


#60
Dibromochloromethane
Concen: 112.783 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion:129 Resp: 230891

Ion	Ratio	Lower	Upper
129	100		
127	77.3	38.9	116.7



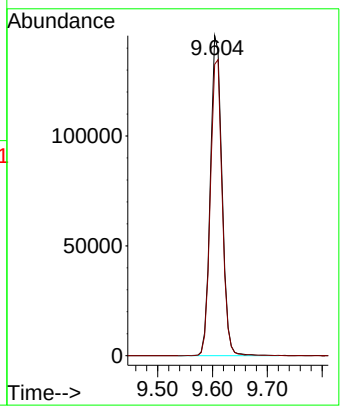


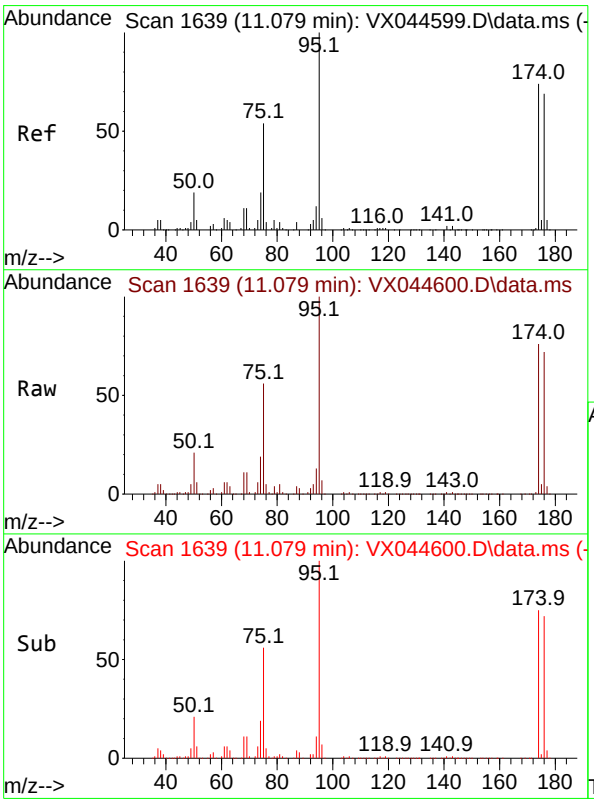
#61
1,2-Dibromoethane
Concen: 103.131 ug/l
RT: 9.604 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:107 Resp: 213851

Ion	Ratio	Lower	Upper
107	100		
109	93.7	76.7	115.1

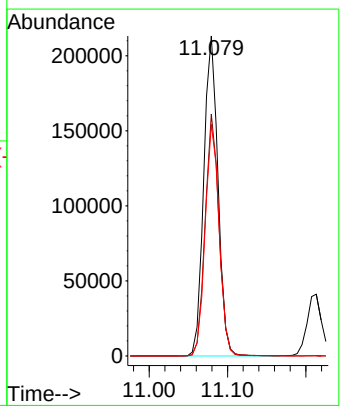


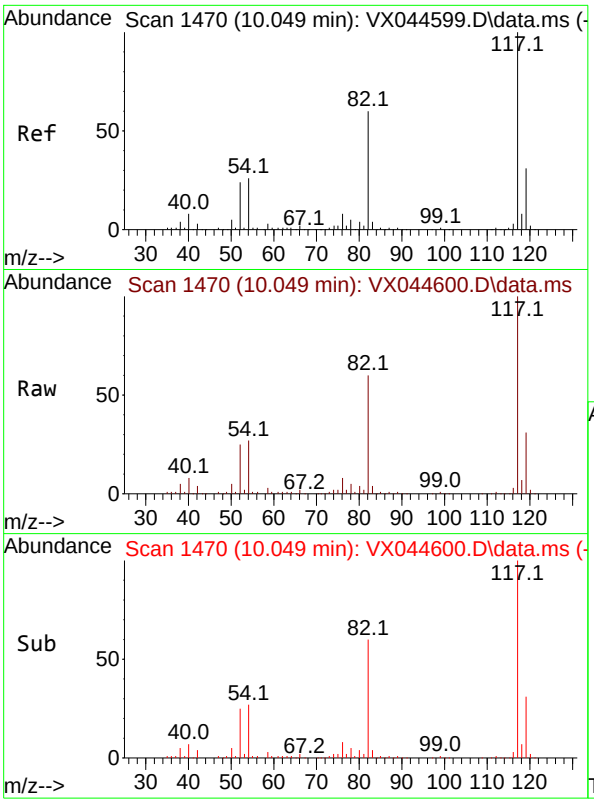


#62
4-Bromofluorobenzene
Concen: 104.402 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 95 Resp: 268349

Ion	Ratio	Lower	Upper
95	100		
174	73.3	0.0	148.8
176	71.2	0.0	139.8



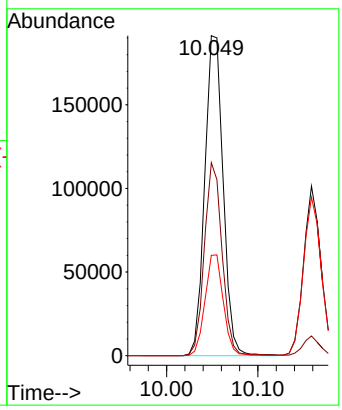


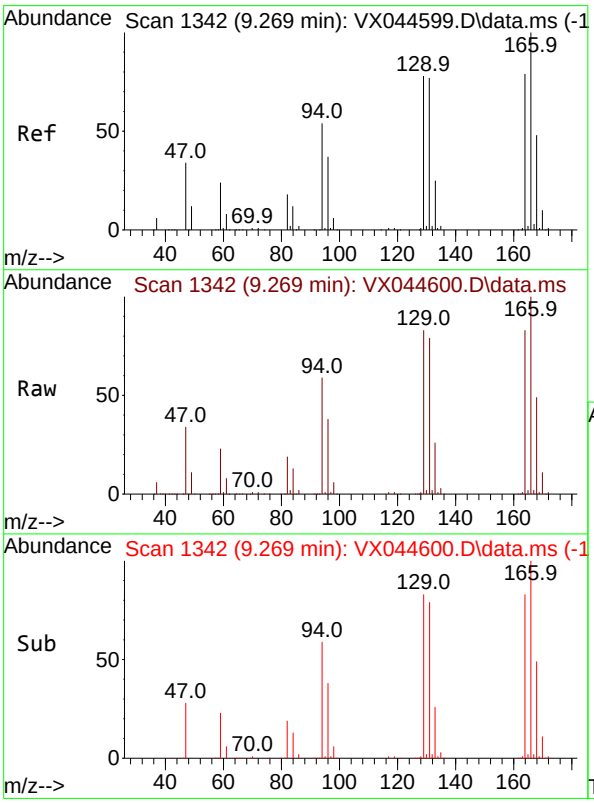
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:117 Resp: 267228

Ion	Ratio	Lower	Upper
117	100		
82	60.3	47.8	71.6
119	31.4	25.0	37.6

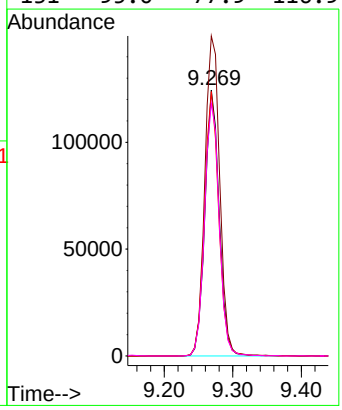


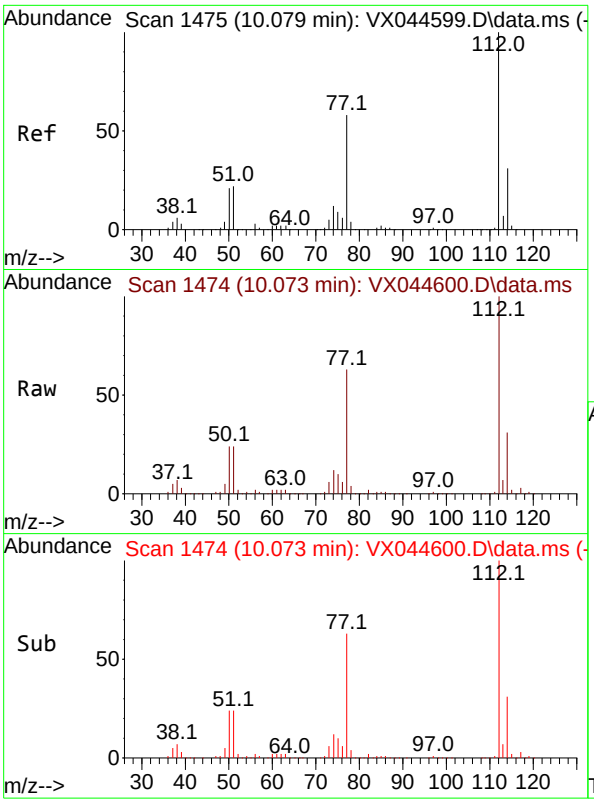


#64
Tetrachloroethene
Concen: 95.619 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion:164 Resp: 180662

Ion	Ratio	Lower	Upper
164	100		
166	120.3	101.5	152.3
129	99.4	78.9	118.3
131	95.0	77.9	116.9



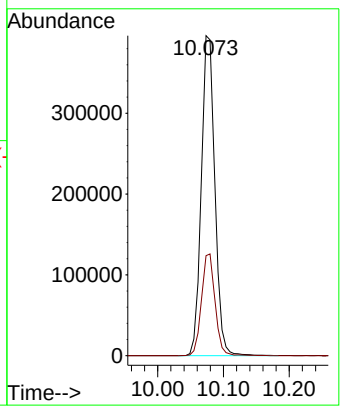


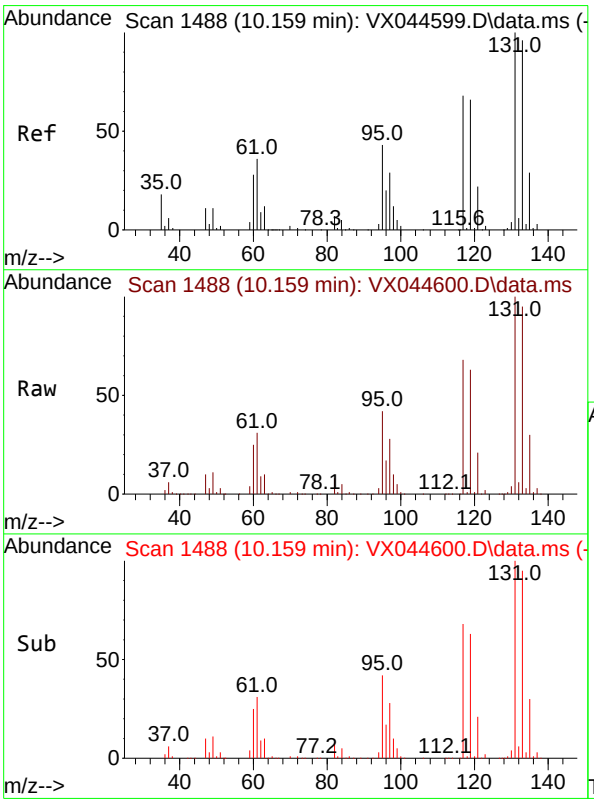
#65
Chlorobenzene
Concen: 100.126 ug/l
RT: 10.073 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:112 Resp: 567868

Ion	Ratio	Lower	Upper
112	100		
114	31.3	25.0	37.4

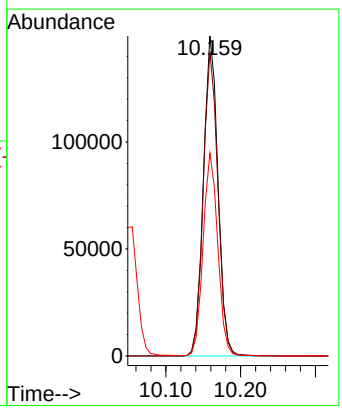


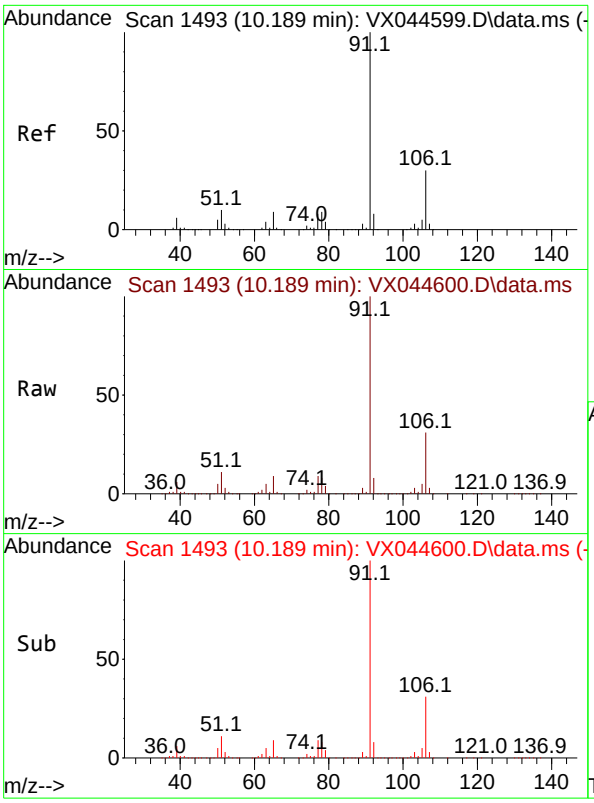


#66
1,1,1,2-Tetrachloroethane
Concen: 107.471 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion:131 Resp: 202443

Ion	Ratio	Lower	Upper
131	100		
133	95.2	48.0	144.0
119	63.7	32.8	98.4



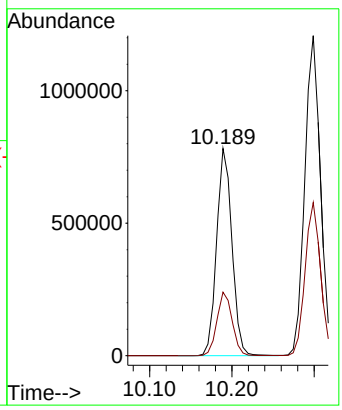


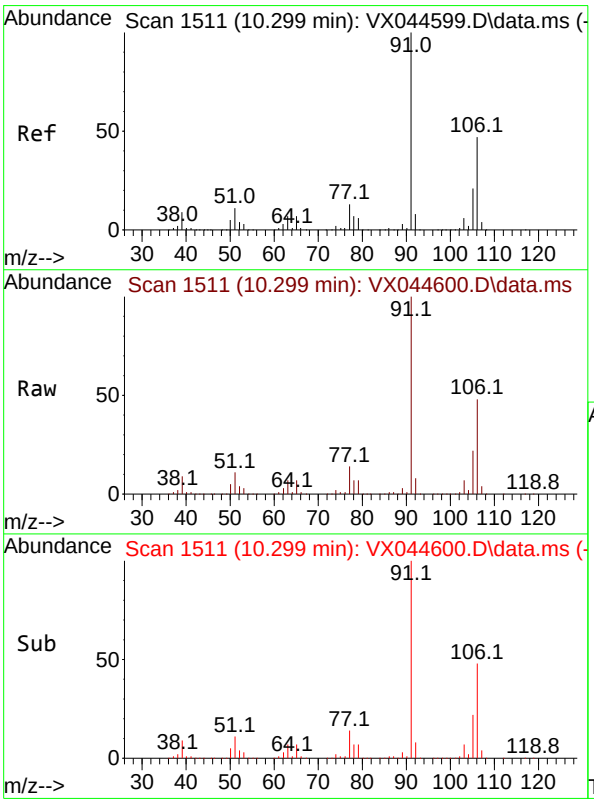
#67
Ethyl Benzene
Concen: 103.973 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 91 Resp: 1012626

Ion	Ratio	Lower	Upper
91	100		
106	30.7	23.8	35.8

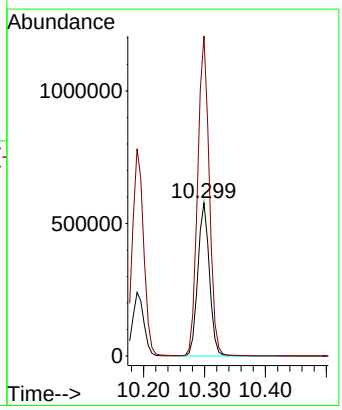


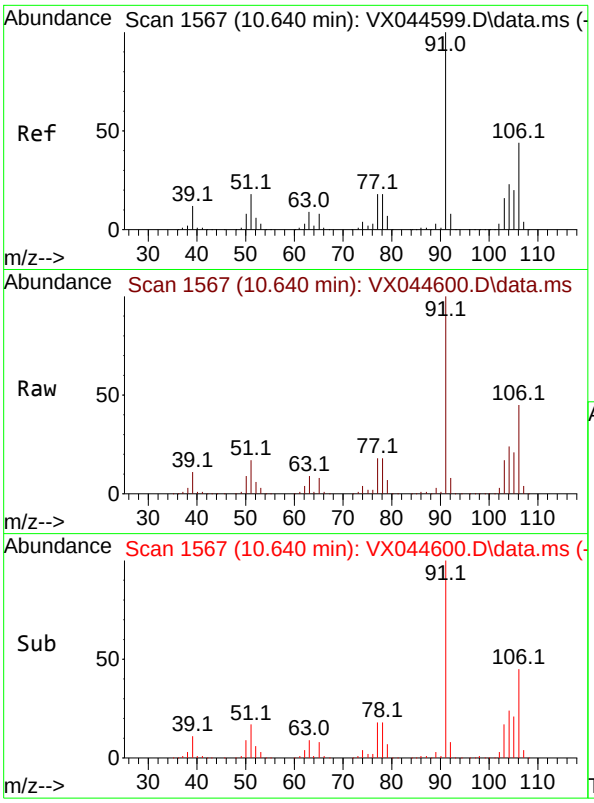


#68
m/p-Xylenes
Concen: 212.310 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion:106 Resp: 759829

Ion	Ratio	Lower	Upper
106	100		
91	210.2	170.4	255.6



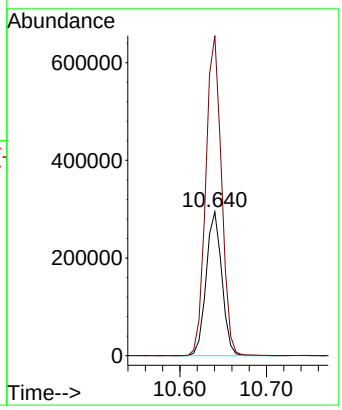


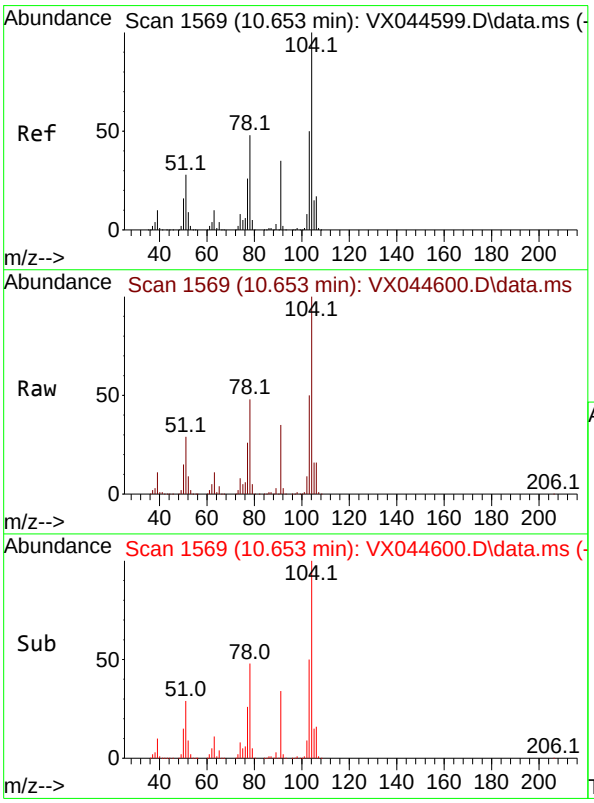
#69
o-Xylene
Concen: 102.549 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:106 Resp: 370442

Ion	Ratio	Lower	Upper
106	100		
91	223.3	112.3	336.8

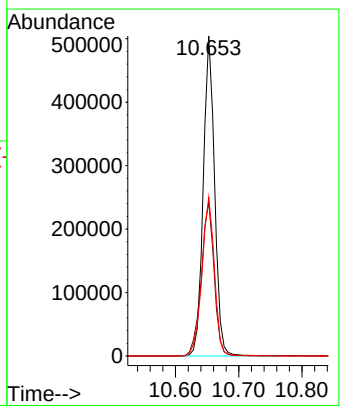


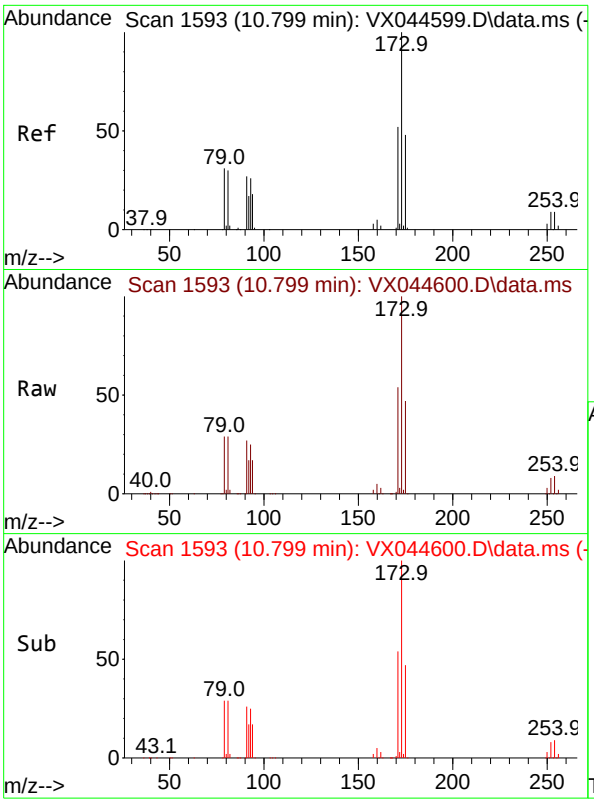


#70
Styrene
Concen: 109.281 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion:104 Resp: 631408

Ion	Ratio	Lower	Upper
104	100		
78	54.5	44.0	66.0
103	54.9	43.8	65.6



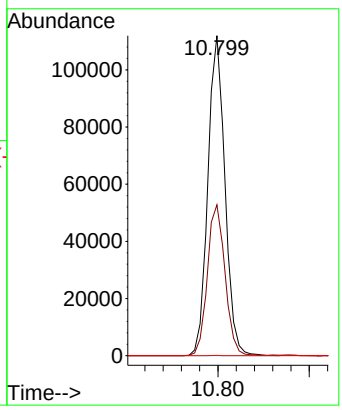


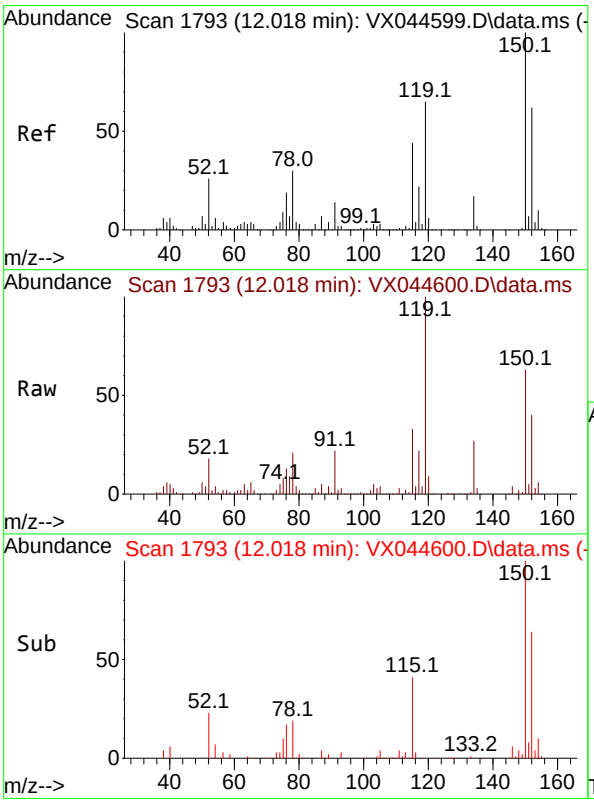
#71
Bromoform
Concen: 100.045 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:173 Resp: 144682

Ion	Ratio	Lower	Upper
173	100		
175	48.8	24.6	73.8
254	0.0	0.0	0.0#

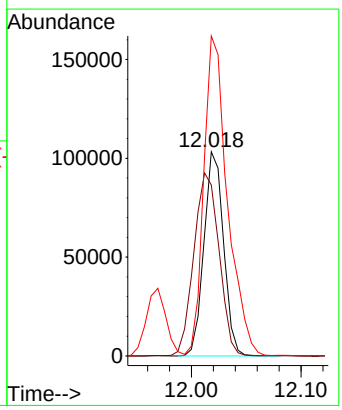


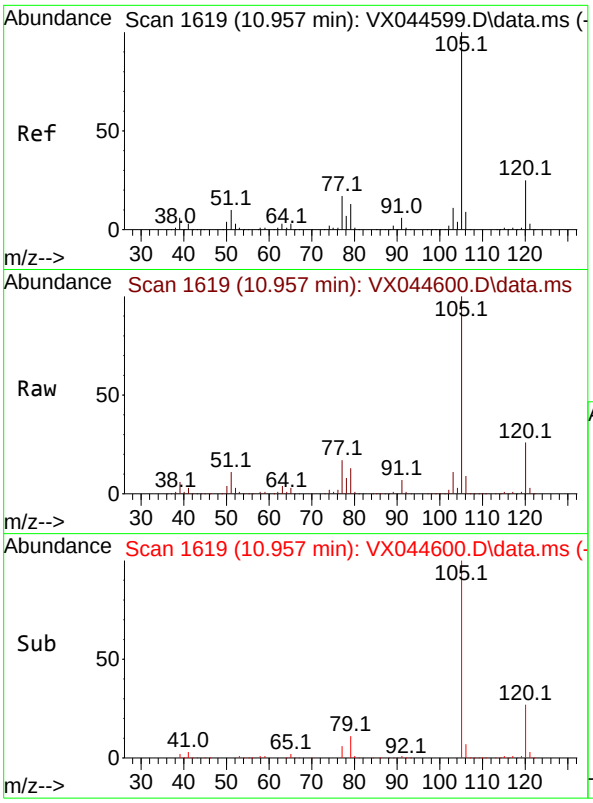


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion:152 Resp: 128628

Ion	Ratio	Lower	Upper
152	100		
115	115.0	44.4	133.1
150	188.8	0.0	355.0



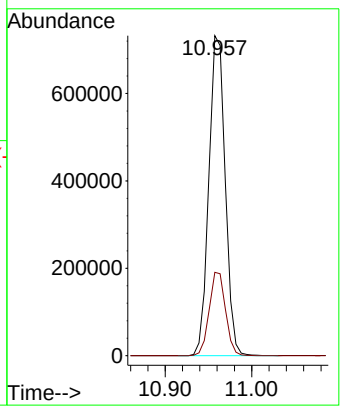


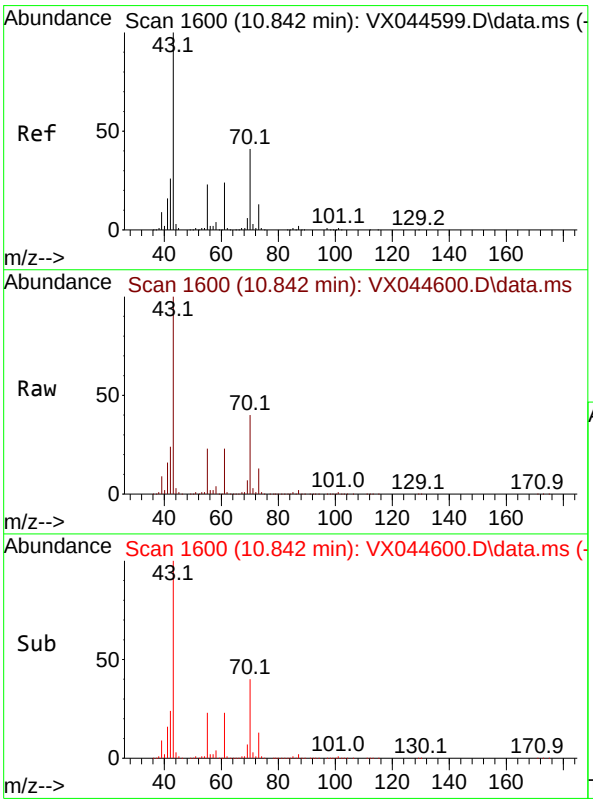
#73
Isopropylbenzene
Concen: 100.962 ug/l
RT: 10.957 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:105 Resp: 962130

Ion	Ratio	Lower	Upper
105	100		
120	26.0	13.0	38.9

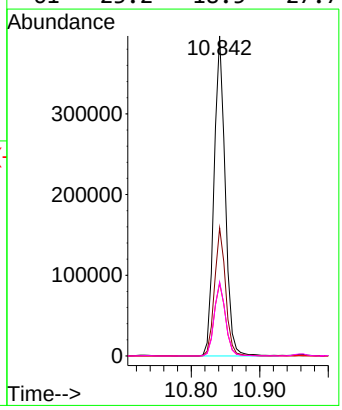


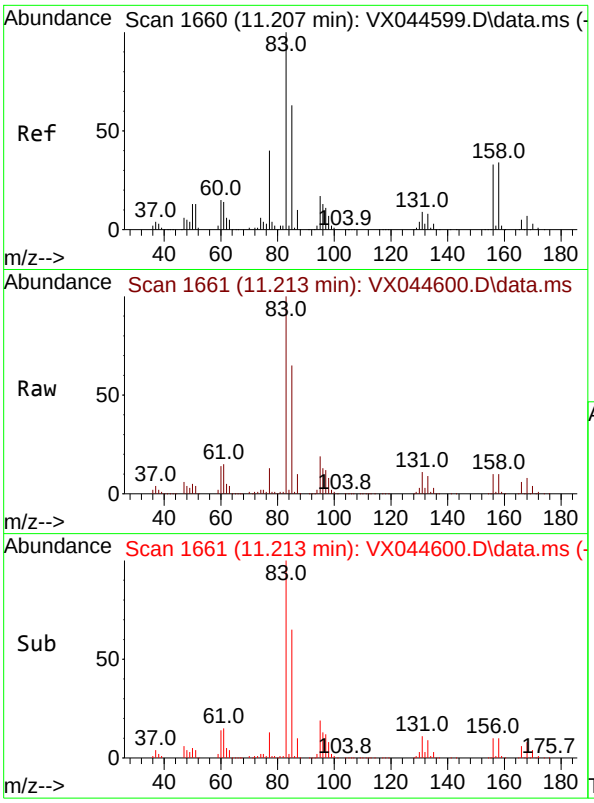


#74
N-amyl acetate
Concen: 116.075 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 43 Resp: 448832

Ion	Ratio	Lower	Upper
43	100		
70	39.8	32.9	49.3
55	23.2	19.0	28.6
61	23.2	18.5	27.7



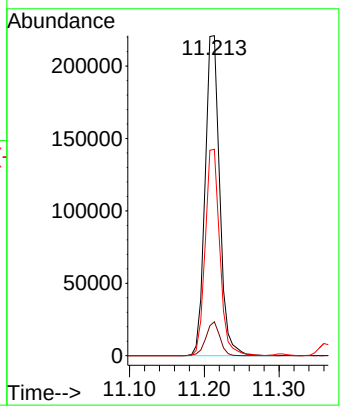


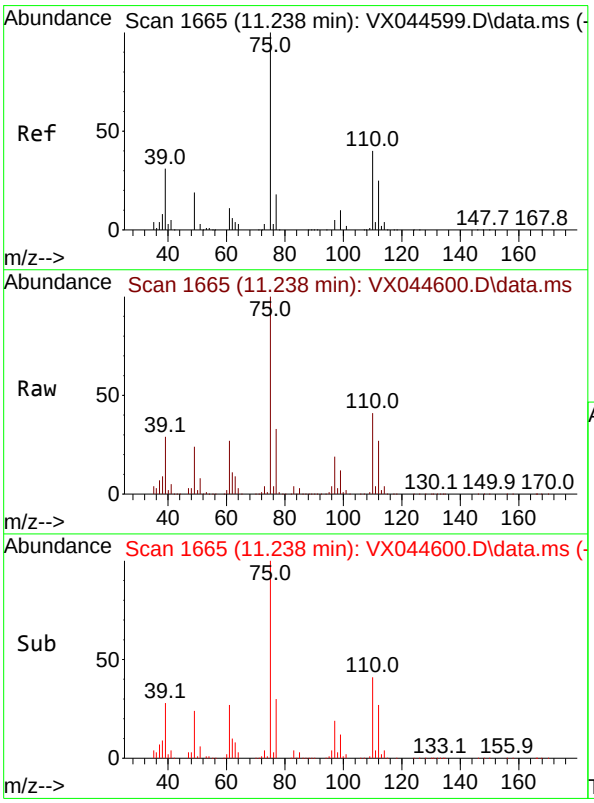
#75
1,1,2,2-Tetrachloroethane
Concen: 97.671 ug/l
RT: 11.213 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 83 Resp: 300014

Ion	Ratio	Lower	Upper
83	100		
131	10.2	5.0	15.0
85	64.3	31.9	95.5

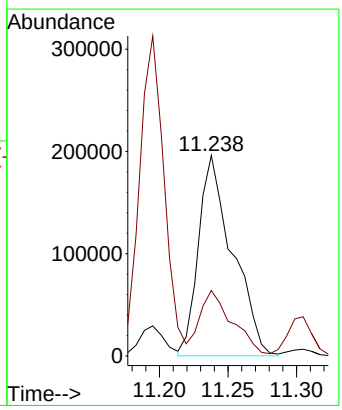


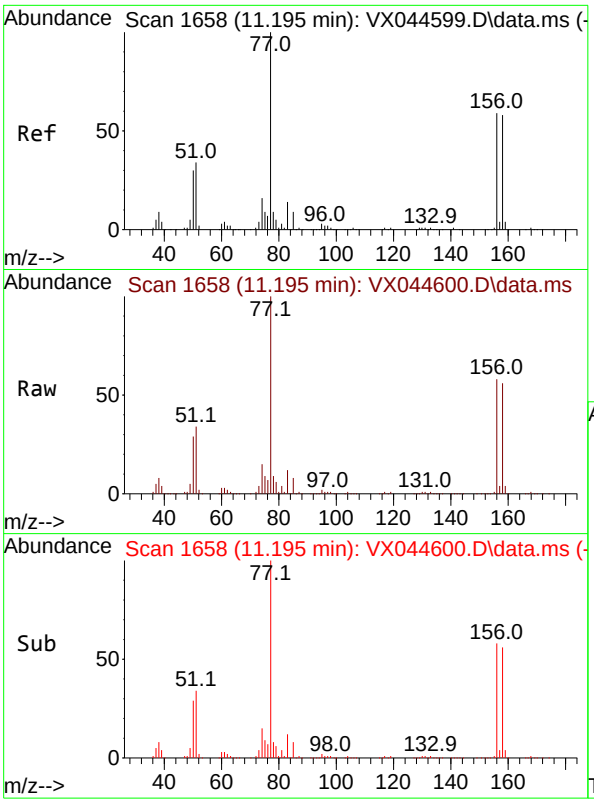


#76
1,2,3-Trichloropropane
Concen: 131.600 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 75 Resp: 339329

Ion	Ratio	Lower	Upper
75	100		
77	31.6	21.1	63.1



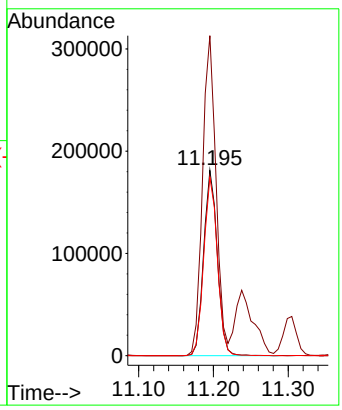


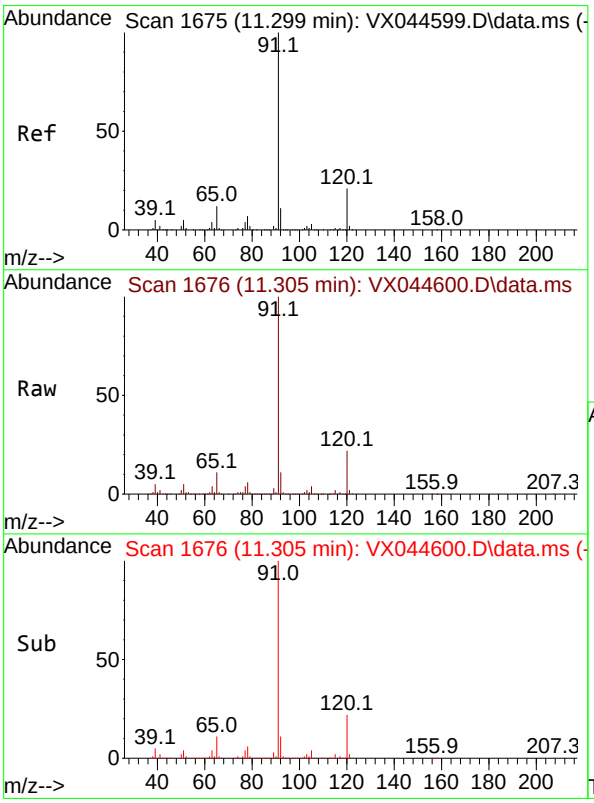
#77
Bromobenzene
Concen: 99.301 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:156 Resp: 229880

Ion	Ratio	Lower	Upper
156	100		
77	171.2	85.7	257.1
158	96.4	49.9	149.6

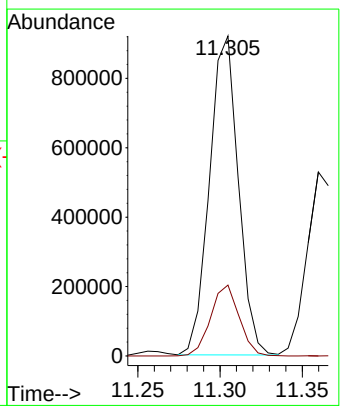


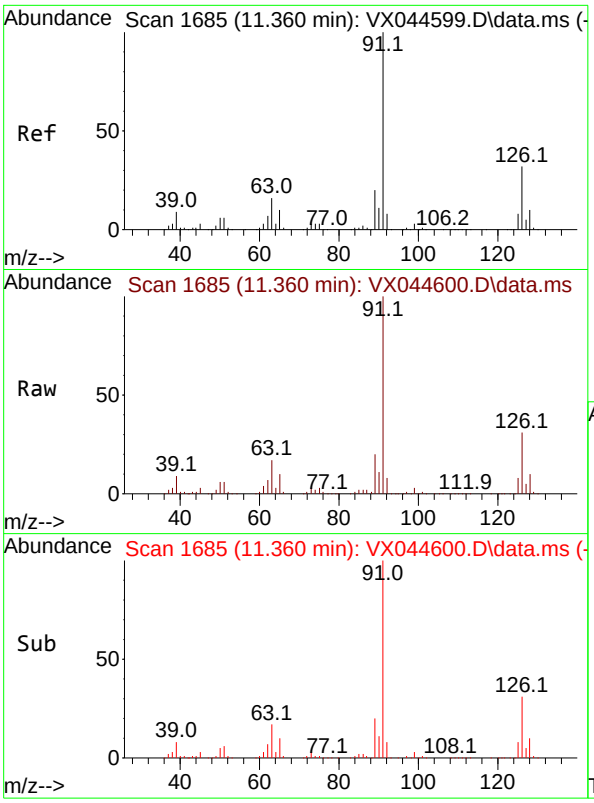


#78
n-propylbenzene
Concen: 104.704 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.006 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 91 Resp: 1123872

Ion	Ratio	Lower	Upper
91	100		
120	22.0	11.2	33.5



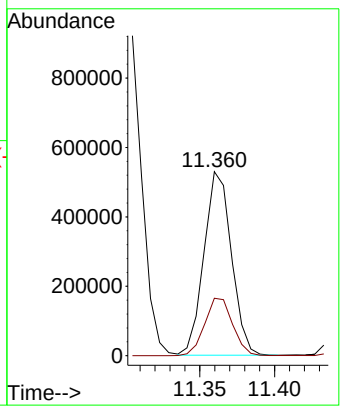


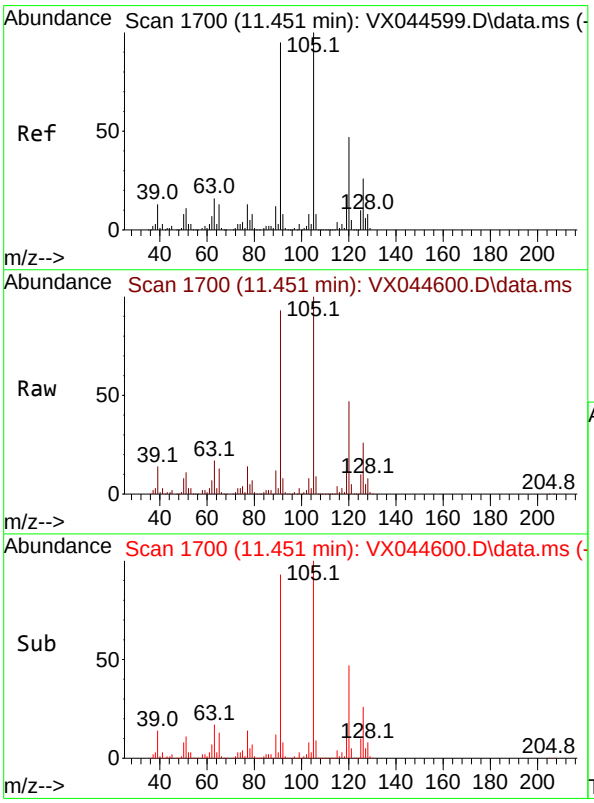
#79
2-Chlorotoluene
Concen: 97.250 ug/l
RT: 11.360 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 91 Resp: 676433

Ion	Ratio	Lower	Upper
91	100		
126	31.9	16.4	49.2

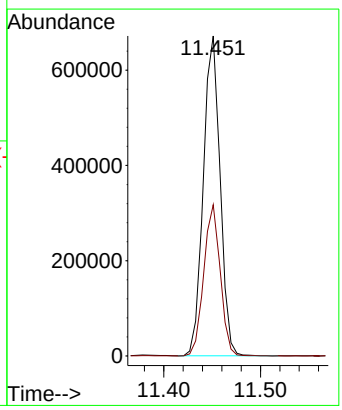


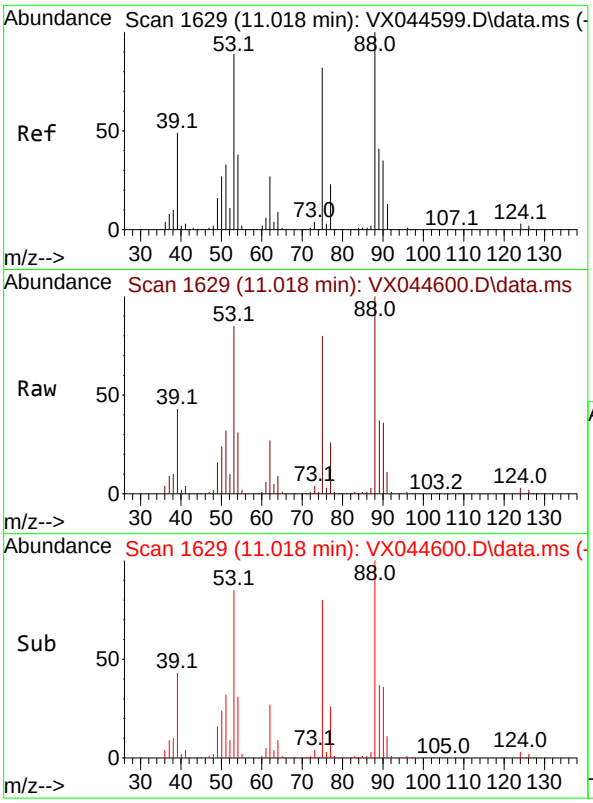


#80
1,3,5-Trimethylbenzene
Concen: 102.880 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion:105 Resp: 812896

Ion	Ratio	Lower	Upper
105	100		
120	46.4	23.5	70.5



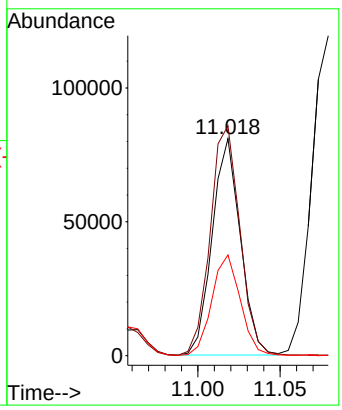


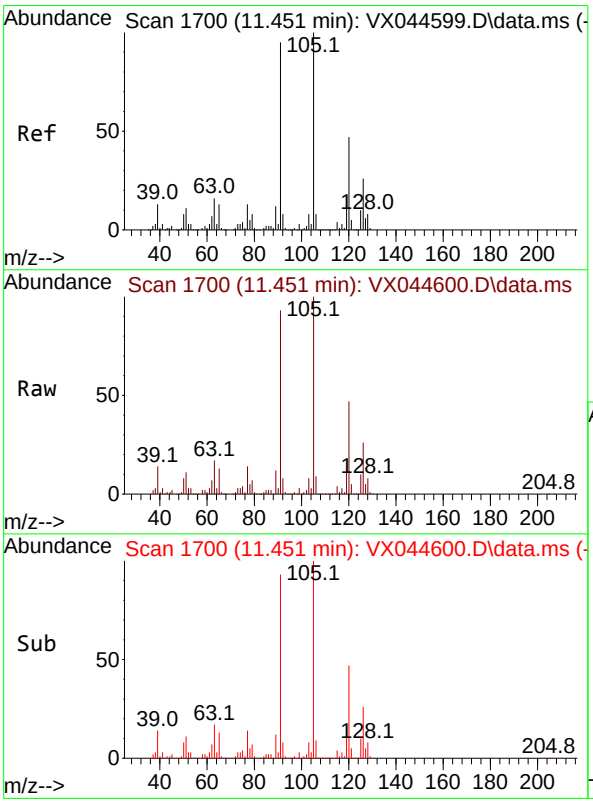
#81
trans-1,4-Dichloro-2-butene
Concen: 113.646 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 75 Resp: 96267

Ion	Ratio	Lower	Upper
75	100		
53	112.8	92.7	139.1
89	46.9	38.3	57.5

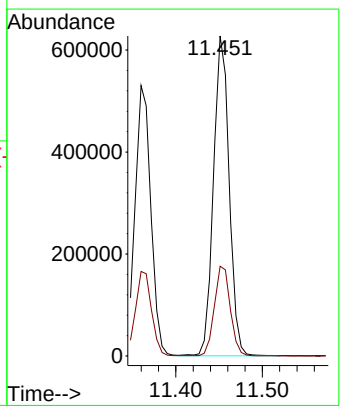


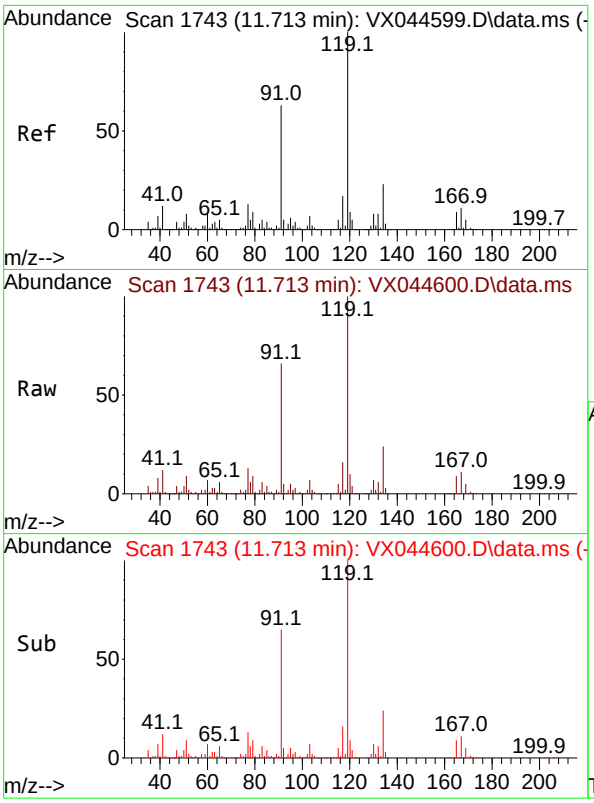


#82
4-Chlorotoluene
Concen: 100.727 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 91 Resp: 788178

Ion	Ratio	Lower	Upper
91	100		
126	28.5	14.0	42.0



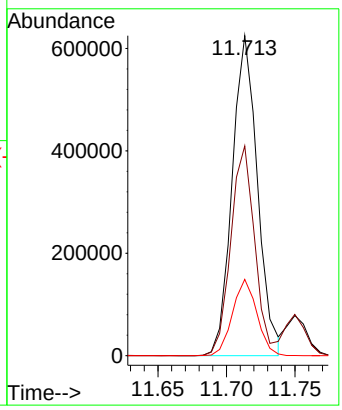


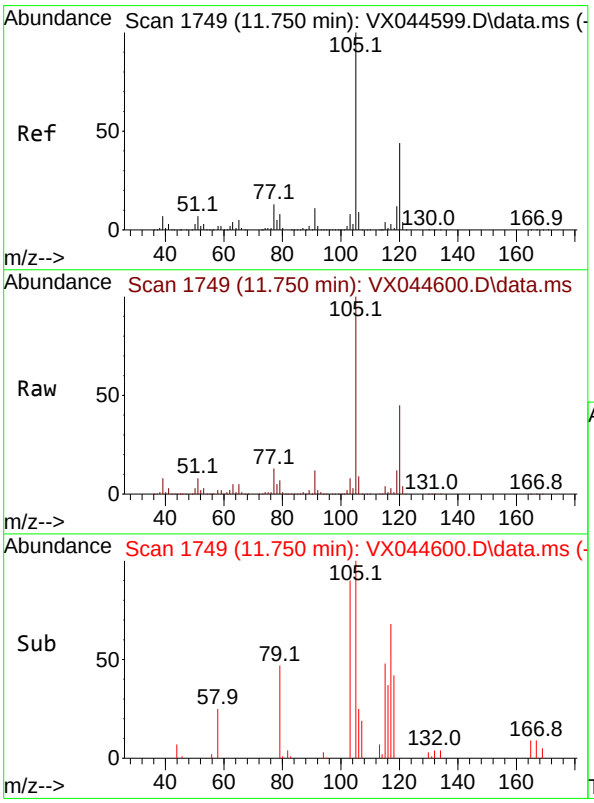
#83
tert-Butylbenzene
Concen: 102.037 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:119 Resp: 802790

Ion	Ratio	Lower	Upper
119	100		
91	62.8	30.9	92.8
134	23.1	11.7	35.0

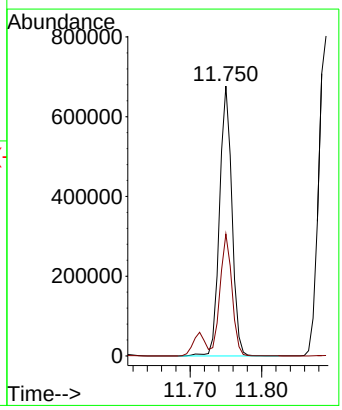


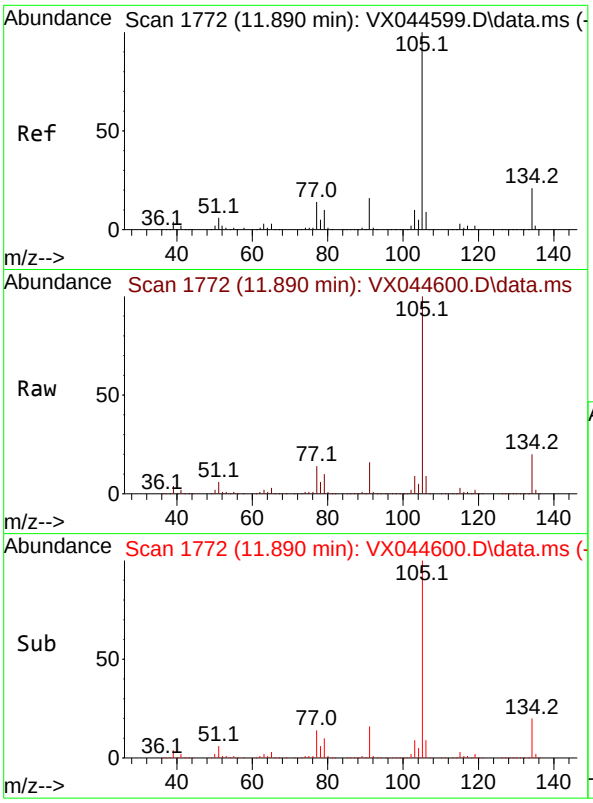


#84
1,2,4-Trimethylbenzene
Concen: 102.161 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion:105 Resp: 810865

Ion	Ratio	Lower	Upper
105	100		
120	43.7	21.9	65.7



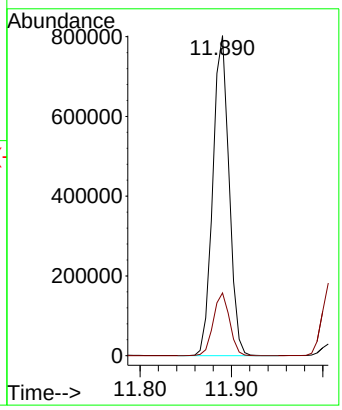


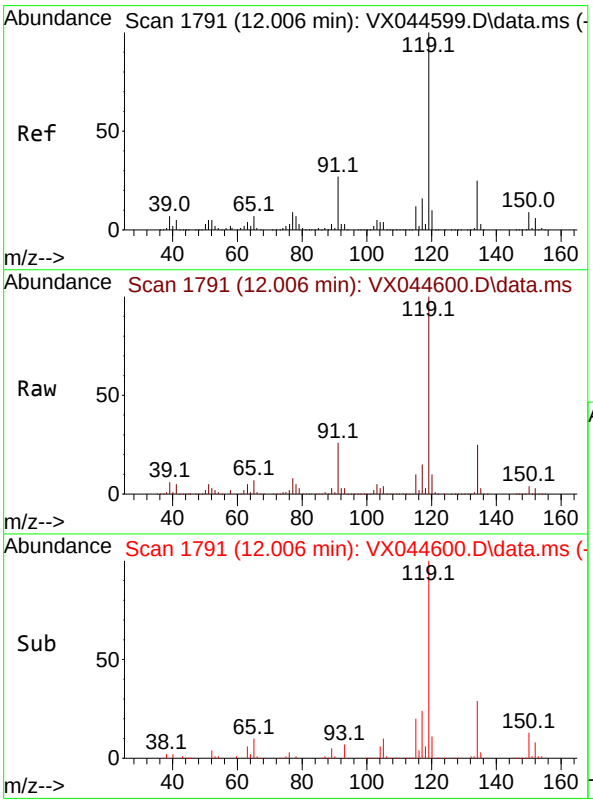
#85
sec-Butylbenzene
Concen: 103.145 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:105 Resp: 988328

Ion	Ratio	Lower	Upper
105	100		
134	19.7	9.9	29.7

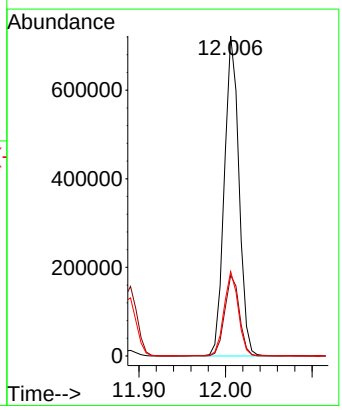


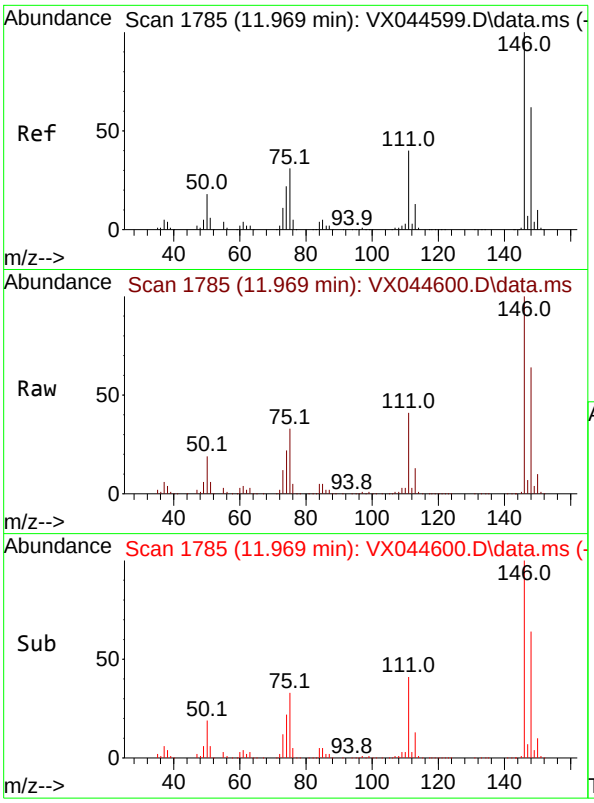


#86
p-Isopropyltoluene
Concen: 105.534 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion:119 Resp: 848479

Ion	Ratio	Lower	Upper
119	100		
134	25.3	12.6	37.8
91	25.6	13.1	39.1



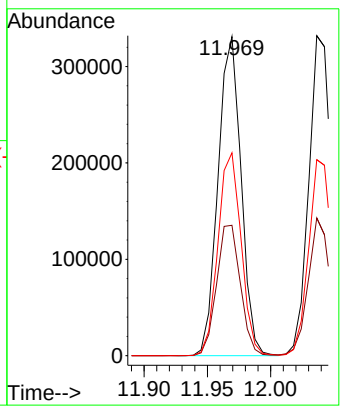


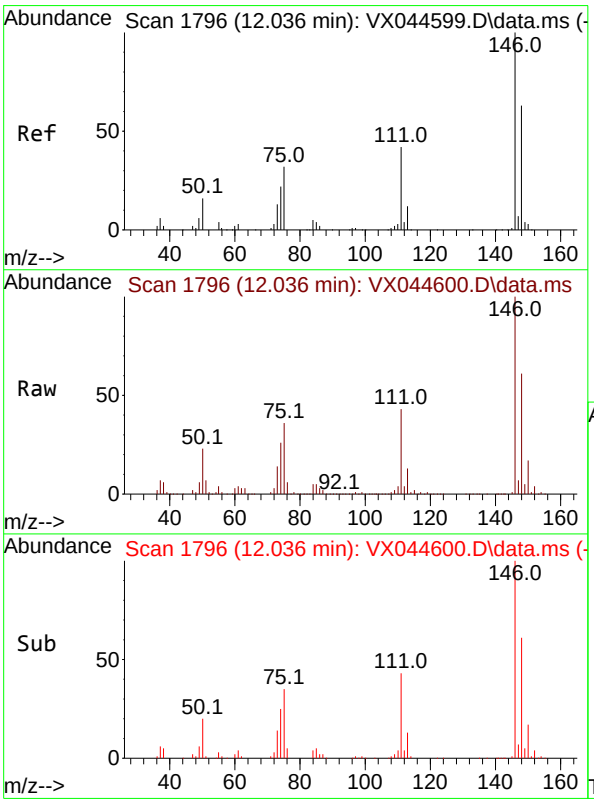
#87
1,3-Dichlorobenzene
Concen: 100.060 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:146 Resp: 419032

Ion	Ratio	Lower	Upper
146	100		
111	42.3	21.0	63.0
148	63.9	31.6	95.0

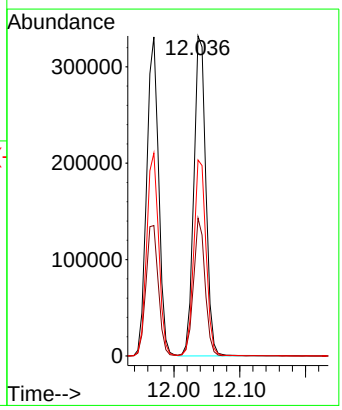


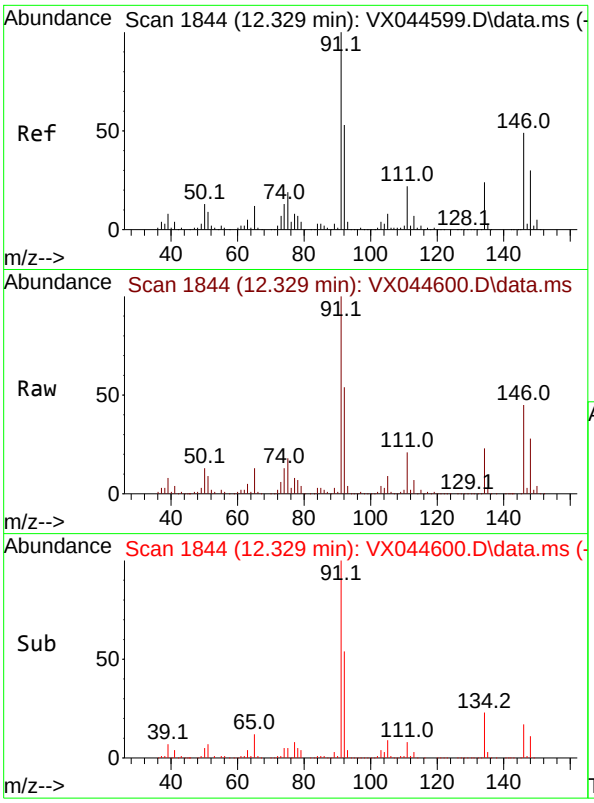


#88
1,4-Dichlorobenzene
Concen: 96.532 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion:146 Resp: 421191

Ion	Ratio	Lower	Upper
146	100		
111	40.9	20.7	62.1
148	62.4	31.8	95.4



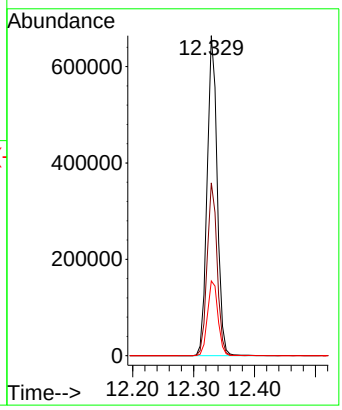


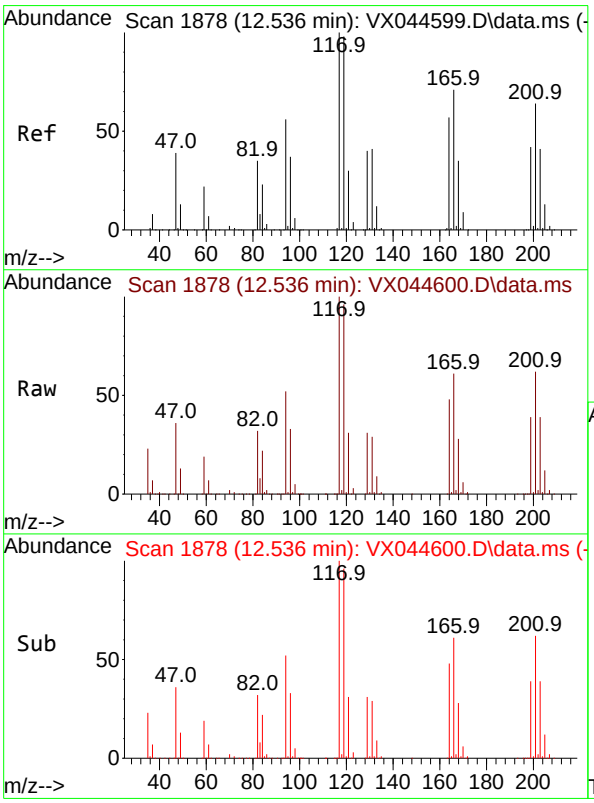
#89
n-Butylbenzene
Concen: 112.811 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 91 Resp: 765855

Ion	Ratio	Lower	Upper
91	100		
92	53.6	26.5	79.4
134	24.3	12.4	37.2

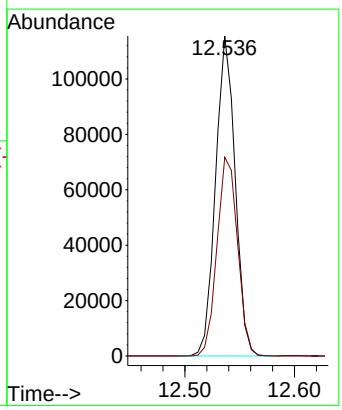


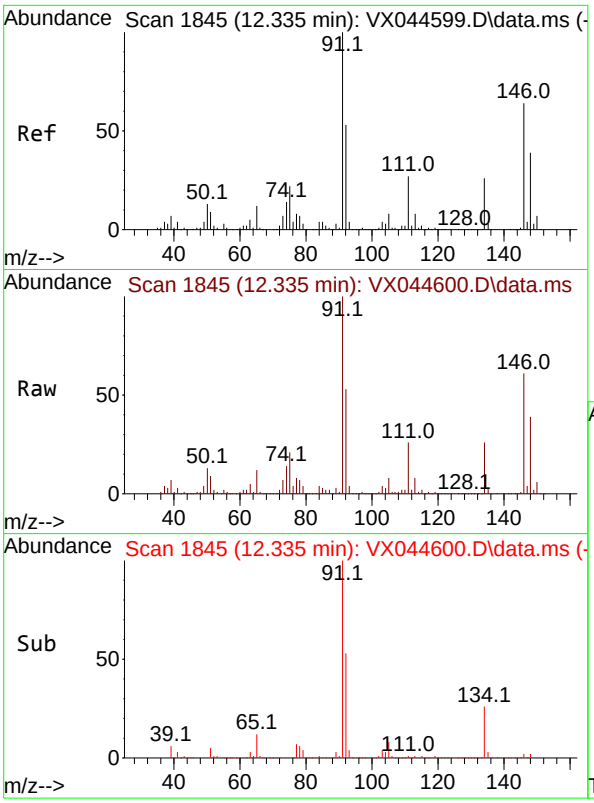


#90
Hexachloroethane
Concen: 111.076 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion:117 Resp: 143461

Ion	Ratio	Lower	Upper
117	100		
201	65.3	33.6	100.6



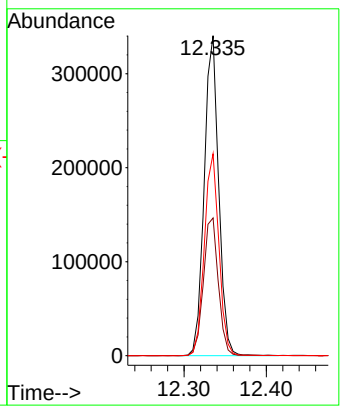


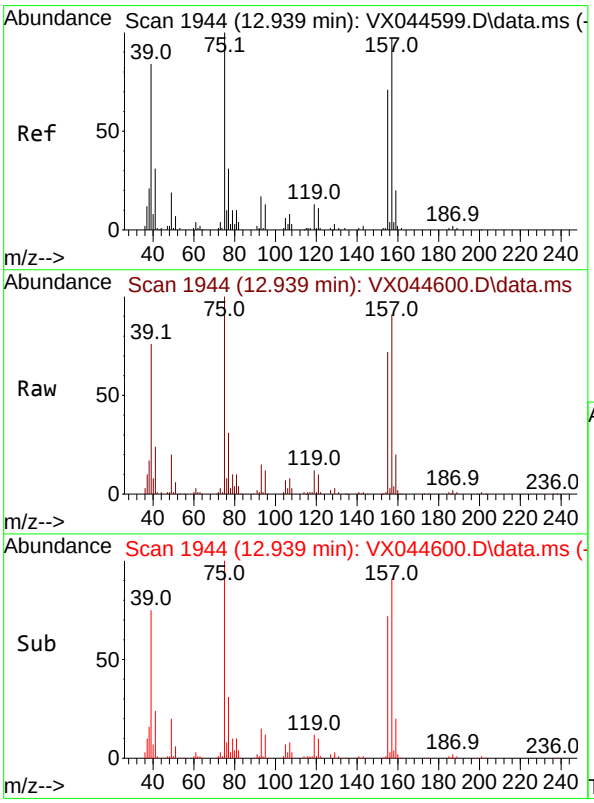
#91
1,2-Dichlorobenzene
Concen: 97.964 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:146 Resp: 414572

Ion	Ratio	Lower	Upper
146	100		
111	44.7	21.8	65.4
148	63.6	31.1	93.3

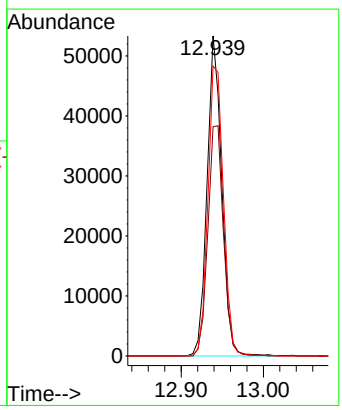


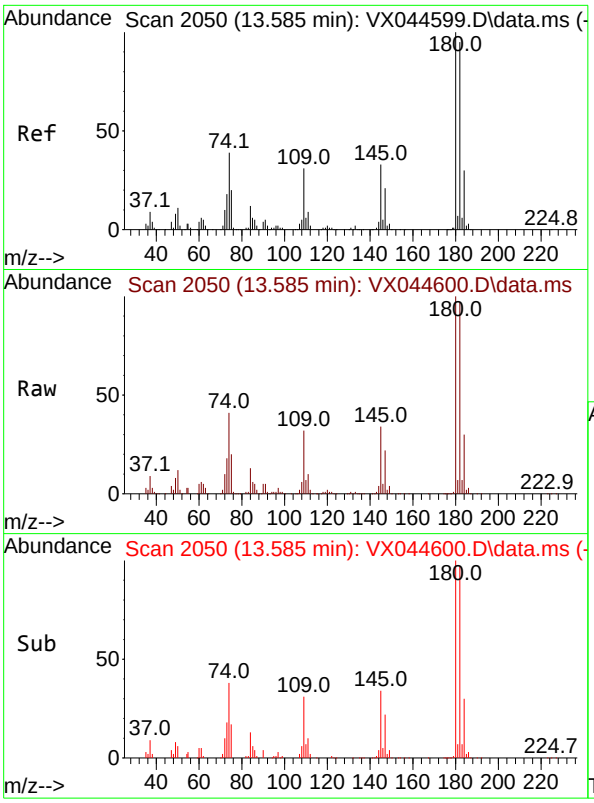


#92
1,2-Dibromo-3-Chloropropane
Concen: 113.620 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion: 75 Resp: 66164

Ion	Ratio	Lower	Upper
75	100		
155	76.6	37.4	112.1
157	96.0	48.0	144.2



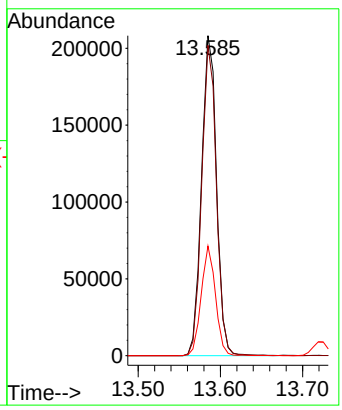


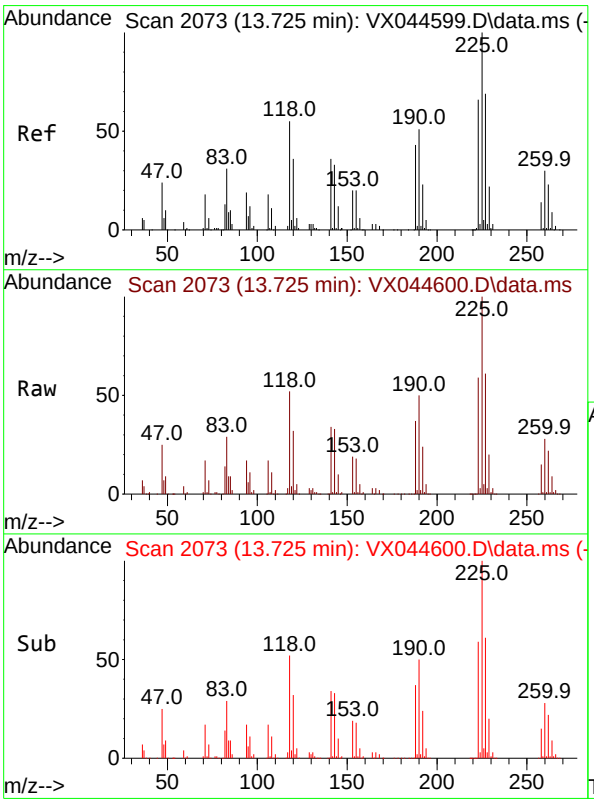
#93
1,2,4-Trichlorobenzene
Concen: 105.934 ug/l
RT: 13.585 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:180 Resp: 263479

Ion	Ratio	Lower	Upper
180	100		
182	95.2	47.9	143.6
145	32.7	16.3	48.9

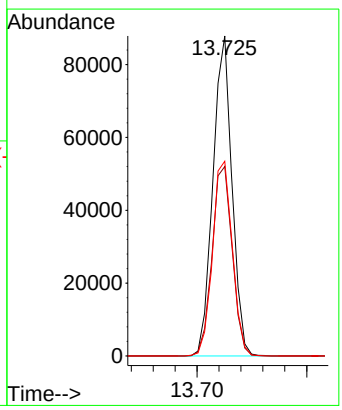


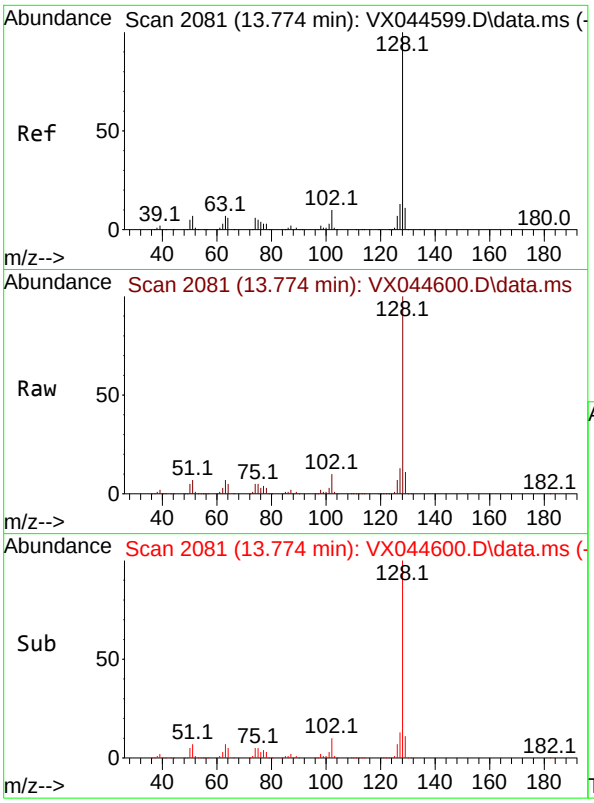


#94
Hexachlorobutadiene
Concen: 102.333 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion:225 Resp: 105982

Ion	Ratio	Lower	Upper
225	100		
223	62.6	31.6	94.8
227	63.3	31.9	95.9



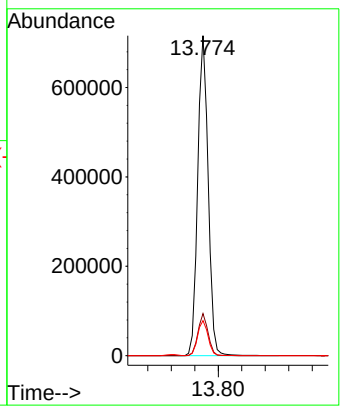


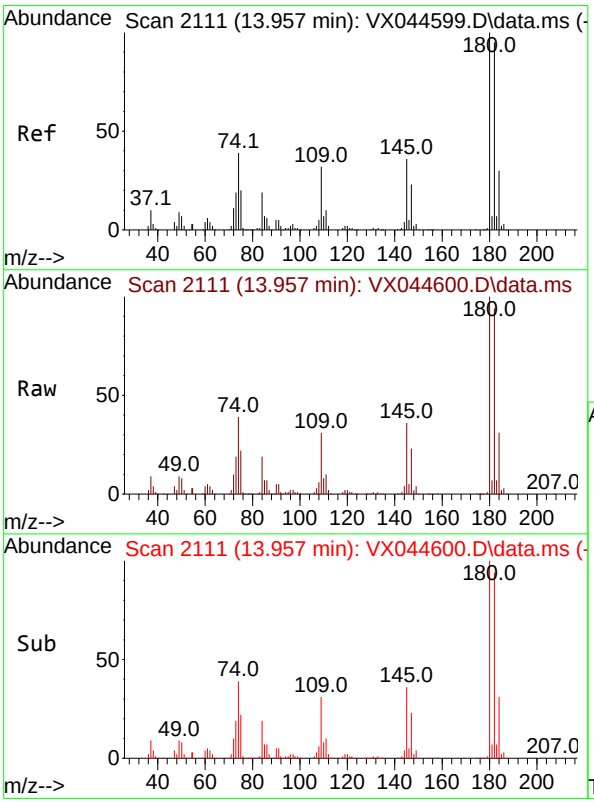
#95
Naphthalene
Concen: 110.159 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:128 Resp: 884039

Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.5	15.7
129	11.0	8.6	13.0

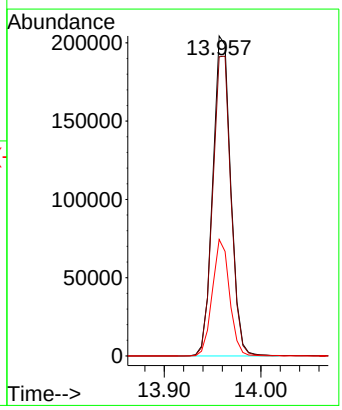




#96
1,2,3-Trichlorobenzene
Concen: 103.439 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VX044600.D
Acq: 07 Jan 2025 11:37

Tgt Ion:180 Resp: 262997

Ion	Ratio	Lower	Upper
180	100		
182	95.4	47.6	142.9
145	35.0	17.6	52.9



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044601.D
Acq On : 07 Jan 2025 12:00
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Quant Time: Jan 08 02:31:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 02:18:40 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	193833	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	322230	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	272245	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	134118	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	363804	116.405	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 232.820%#			
35) Dibromofluoromethane	5.379	113	318562	144.173	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 288.340%#			
50) Toluene-d8	8.647	98	1071800	142.008	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 284.020%#			
62) 4-Bromofluorobenzene	11.079	95	386929	145.246	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 290.500%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	396696	141.444	ug/l	99
3) Chloromethane	1.295	50	361151	129.221	ug/l	100
4) Vinyl Chloride	1.374	62	362740	138.352	ug/l	98
5) Bromomethane	1.599	94	156875	115.510	ug/l	99
6) Chloroethane	1.666	64	127744	91.779	ug/l	97
7) Trichlorofluoromethane	1.868	101	497464	127.427	ug/l	97
8) Diethyl Ether	2.130	74	172572	125.105	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.319	101	322006	143.860	ug/l	94
10) Methyl Iodide	2.447	142	458572	146.920	ug/l	91
11) Tert butyl alcohol	3.020	59	243259	632.101	ug/l	99
12) 1,1-Dichloroethene	2.313	96	321732	148.372	ug/l #	80
13) Acrolein	2.233	56	348160	684.238	ug/l	98
14) Allyl chloride	2.654	41	481127	133.411	ug/l #	87
15) Acrylonitrile	3.069	53	729569	658.245	ug/l	98
16) Acetone	2.386	43	557867	566.340	ug/l #	89
17) Carbon Disulfide	2.502	76	785944	175.284	ug/l	99
18) Methyl Acetate	2.703	43	358794	123.407	ug/l	93
19) Methyl tert-butyl Ether	3.111	73	1003928	135.096	ug/l	99
20) Methylene Chloride	2.782	84	347783	138.392	ug/l	89
21) trans-1,2-Dichloroethene	3.081	96	326842	146.862	ug/l	87
22) Diisopropyl ether	3.758	45	902333	121.714	ug/l	95
23) Vinyl Acetate	3.721	43	3843854	641.181	ug/l #	93
24) 1,1-Dichloroethane	3.605	63	569743	131.892	ug/l	99
25) 2-Butanone	4.562	43	880207	619.080	ug/l	91
26) 2,2-Dichloropropane	4.465	77	497336	133.162	ug/l	95
27) cis-1,2-Dichloroethene	4.477	96	394578	145.402	ug/l	89
28) Bromochloromethane	4.891	49	246126	122.401	ug/l #	74
29) Tetrahydrofuran	5.001	42	580089	595.793	ug/l	91
30) Chloroform	5.087	83	598049	128.421	ug/l	99
31) Cyclohexane	5.458	56	475840	134.163	ug/l	85
32) 1,1,1-Trichloroethane	5.373	97	545752	139.254	ug/l	95
36) 1,1-Dichloropropene	5.684	75	406061	142.120	ug/l	96
37) Ethyl Acetate	4.715	43	363828	124.576	ug/l #	94
38) Carbon Tetrachloride	5.666	117	471467	148.724	ug/l	100
39) Methylcyclohexane	7.373	83	552098	151.439	ug/l	91
40) Benzene	6.032	78	1280226	142.310	ug/l	99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044601.D
Acq On : 07 Jan 2025 12:00
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Quant Time: Jan 08 02:31:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 02:18:40 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.922	41	196413	125.194	ug/l		90
42) 1,2-Dichloroethane	6.080	62	422697	120.148	ug/l		93
43) Isopropyl Acetate	6.336	43	611339	126.783	ug/l	#	92
44) Trichloroethene	7.123	130	349611	152.030	ug/l		94
45) 1,2-Dichloropropane	7.428	63	299322	136.469	ug/l		97
46) Dibromomethane	7.574	93	235994	138.350	ug/l		93
47) Bromodichloromethane	7.818	83	443978	143.029	ug/l		99
48) Methyl methacrylate	7.690	41	296575	128.954	ug/l		88
49) 1,4-Dioxane	7.665	88	104987	3106.467	ug/l	#	91
51) 4-Methyl-2-Pentanone	8.574	43	1711444	607.176	ug/l		92
52) Toluene	8.714	92	784020	144.441	ug/l		95
53) t-1,3-Dichloropropene	8.976	75	457387	154.153	ug/l		98
54) cis-1,3-Dichloropropene	8.360	75	504071	151.162	ug/l	#	87
55) 1,1,2-Trichloroethane	9.147	97	297735	139.918	ug/l		96
56) Ethyl methacrylate	9.116	69	468501	151.390	ug/l	#	84
57) 1,3-Dichloropropane	9.305	76	489228	136.912	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	1096941	715.006	ug/l		91
59) 2-Hexanone	9.433	43	1253079	628.603	ug/l		88
60) Dibromochloromethane	9.519	129	349531	164.735	ug/l		100
61) 1,2-Dibromoethane	9.604	107	316369	147.210	ug/l		99
64) Tetrachloroethene	9.269	164	281910	146.458	ug/l		98
65) Chlorobenzene	10.073	112	869620	150.505	ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.159	131	304267	158.550	ug/l		99
67) Ethyl Benzene	10.189	91	1456186	146.761	ug/l		96
68) m/p-Xylenes	10.299	106	1116860	306.320	ug/l		92
69) o-Xylene	10.640	106	557711	151.545	ug/l		89
70) Styrene	10.653	104	935547	158.937	ug/l		95
71) Bromoform	10.799	173	239442	149.977	ug/l	#	98
73) Isopropylbenzene	10.957	105	1414616	142.367	ug/l		98
74) N-amyl acetate	10.842	43	538859	133.652	ug/l		92
75) 1,1,2,2-Tetrachloroethane	11.214	83	423014	132.076	ug/l		98
76) 1,2,3-Trichloropropane	11.238	75	470982	175.182	ug/l		84
77) Bromobenzene	11.195	156	361039	149.574	ug/l		89
78) n-propylbenzene	11.305	91	1596196	142.620	ug/l		96
79) 2-Chlorotoluene	11.360	91	961904	132.631	ug/l		96
80) 1,3,5-Trimethylbenzene	11.451	105	1163357	141.208	ug/l		96
81) trans-1,4-Dichloro-2-b...	11.018	75	143479	162.448	ug/l	#	82
82) 4-Chlorotoluene	11.451	91	1104003	135.314	ug/l		94
83) tert-Butylbenzene	11.713	119	1224555	149.273	ug/l		95
84) 1,2,4-Trimethylbenzene	11.750	105	1205026	145.607	ug/l		97
85) sec-Butylbenzene	11.890	105	1483948	148.531	ug/l		99
86) p-Isopropyltoluene	12.006	119	1277498	152.392	ug/l		96
87) 1,3-Dichlorobenzene	11.969	146	664944	152.281	ug/l		98
88) 1,4-Dichlorobenzene	12.037	146	662357	145.590	ug/l		98
89) n-Butylbenzene	12.329	91	1090816	154.101	ug/l		96
90) Hexachloroethane	12.536	117	224919	167.017	ug/l		94
91) 1,2-Dichlorobenzene	12.335	146	656010	148.671	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.939	75	91050	149.956	ug/l		76
93) 1,2,4-Trichlorobenzene	13.585	180	451648	174.156	ug/l		99
94) Hexachlorobutadiene	13.725	225	176486	163.433	ug/l		99
95) Naphthalene	13.774	128	1490078	178.076	ug/l		99
96) 1,2,3-Trichlorobenzene	13.957	180	452293	170.608	ug/l		98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044601.D
Acq On : 07 Jan 2025 12:00
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Quant Time: Jan 08 02:31:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 02:18:40 2025
Response via : Initial Calibration

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

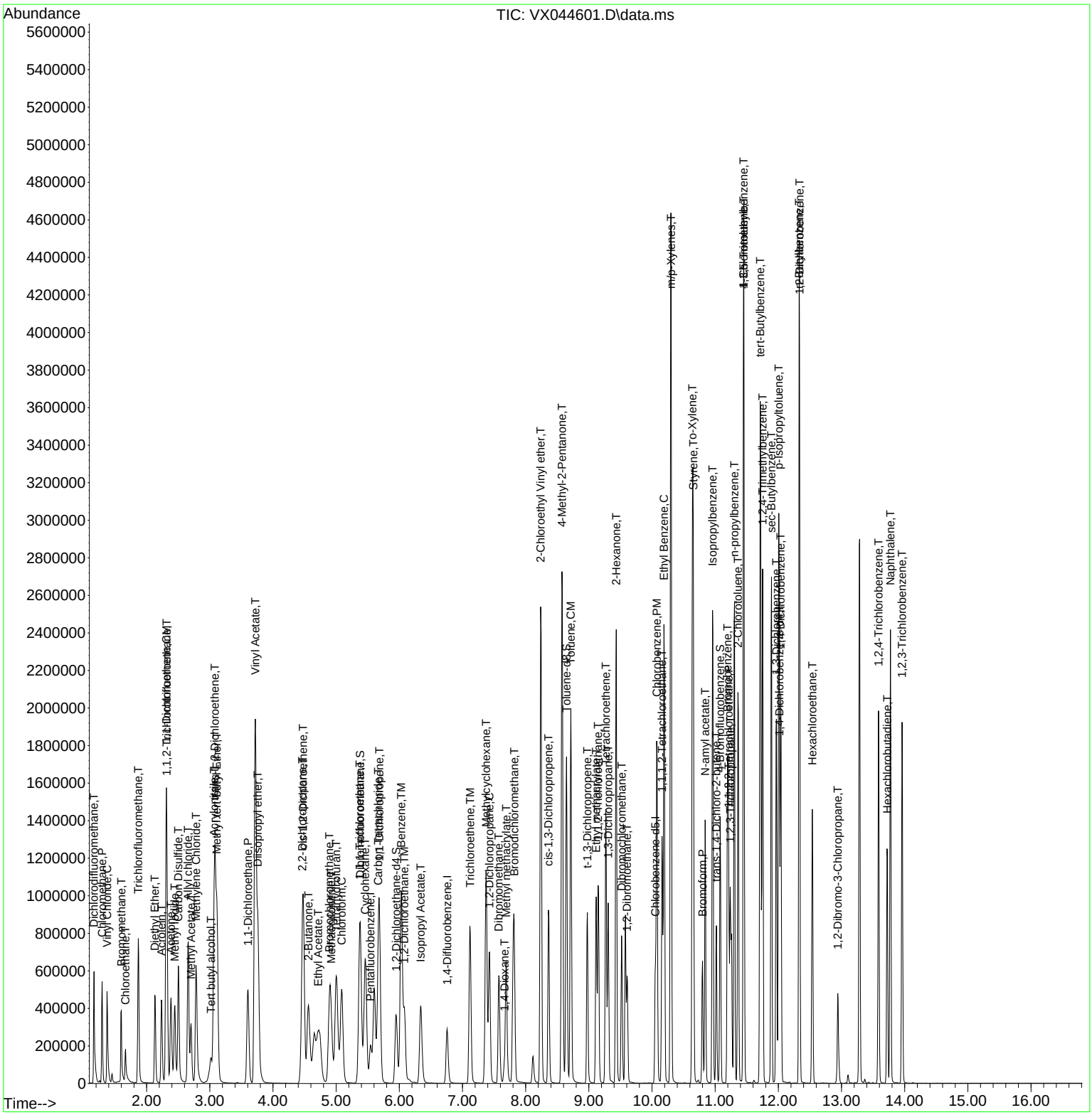
(#) = qualifier out of range (m) = manual integration (+) = signals summed

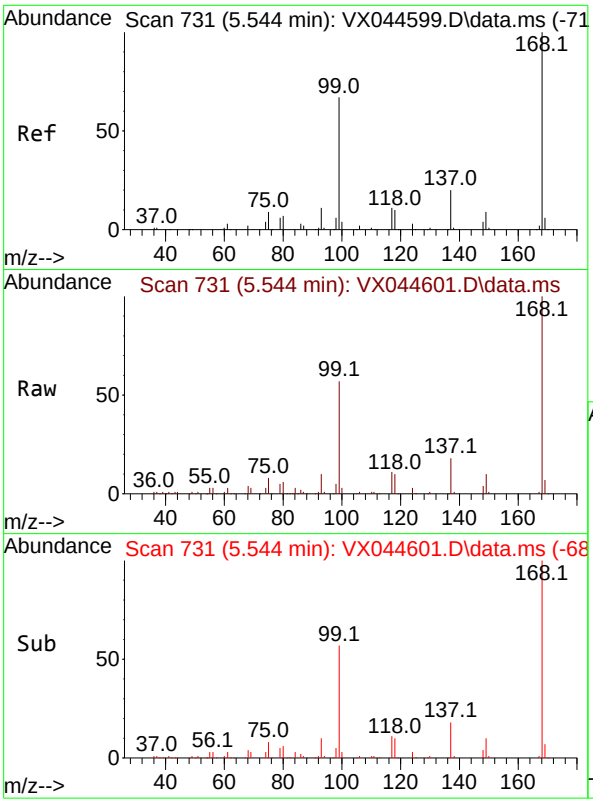
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044601.D
Acq On : 07 Jan 2025 12:00
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Quant Time: Jan 08 02:31:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 02:18:40 2025
Response via : Initial Calibration



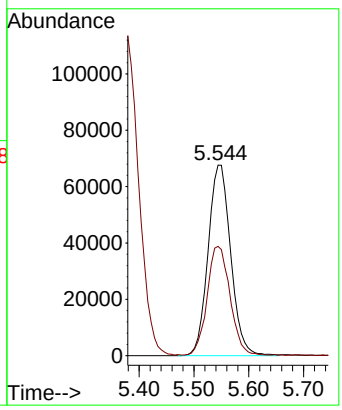


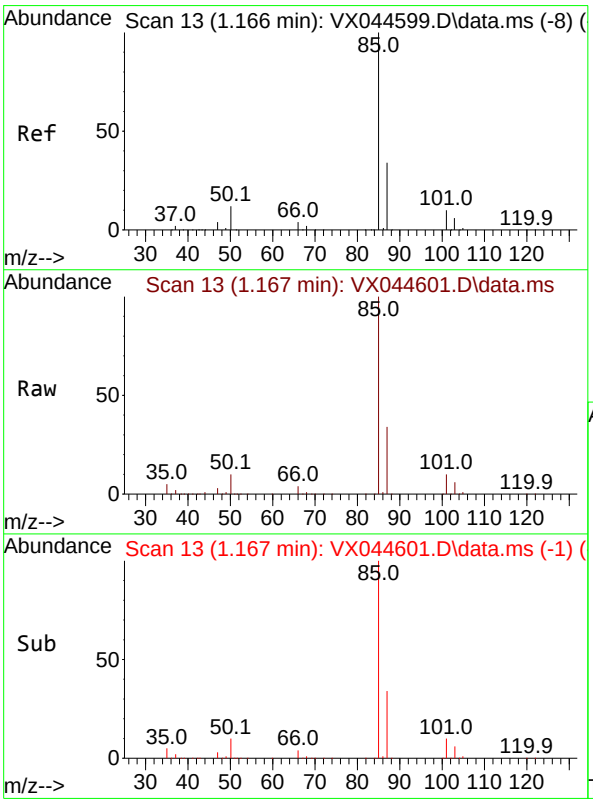
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:168 Resp: 193833

Ion	Ratio	Lower	Upper
168	100		
99	57.2	53.5	80.3

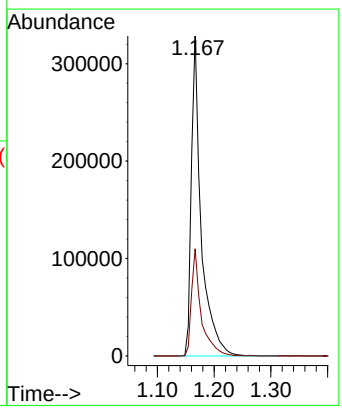


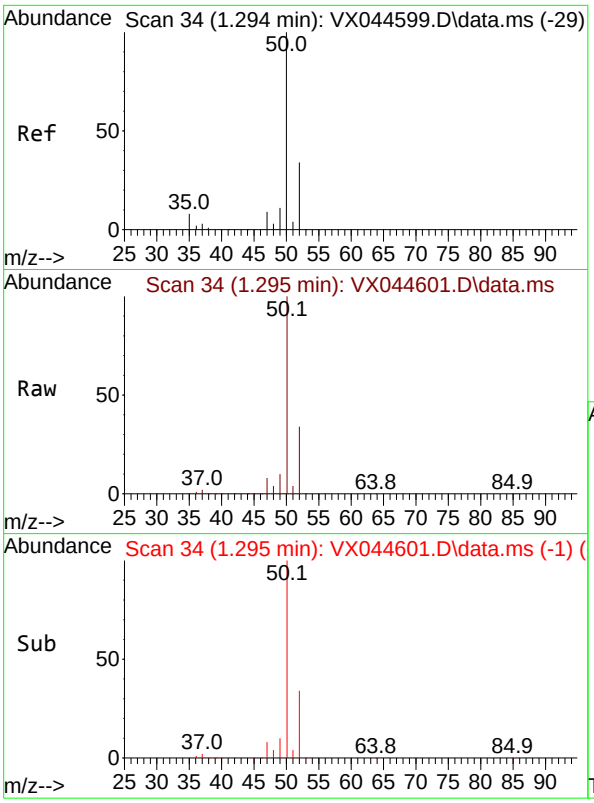


#2
Dichlorodifluoromethane
Concen: 141.444 ug/l
RT: 1.167 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 85 Resp: 396696

Ion	Ratio	Lower	Upper
85	100		
87	33.5	17.2	51.5



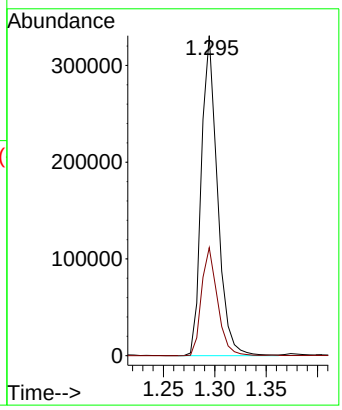


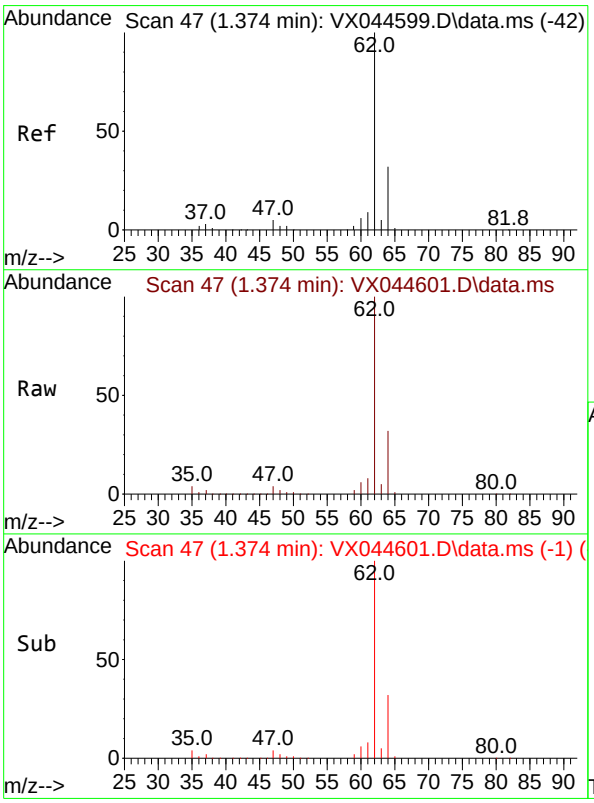
#3
Chloromethane
Concen: 129.221 ug/l
RT: 1.295 min Scan# 34
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 50 Resp: 361151

Ion	Ratio	Lower	Upper
50	100		
52	33.8	27.0	40.4

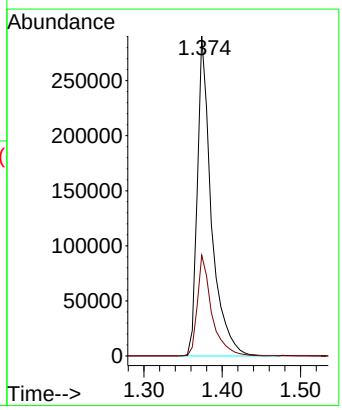


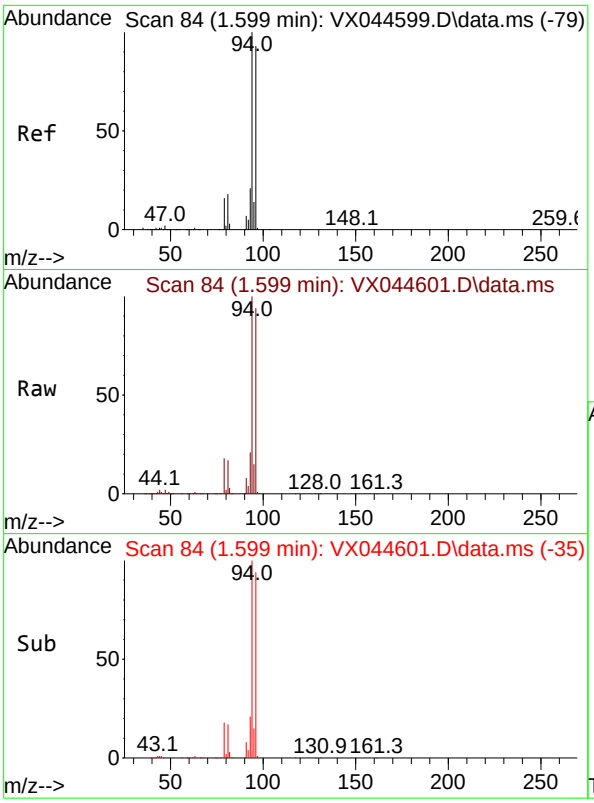


#4
Vinyl Chloride
Concen: 138.352 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 62 Resp: 362740

Ion	Ratio	Lower	Upper
62	100		
64	31.5	26.0	39.0



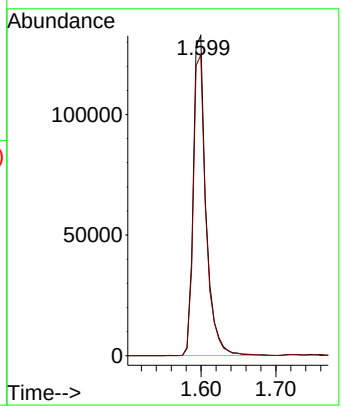


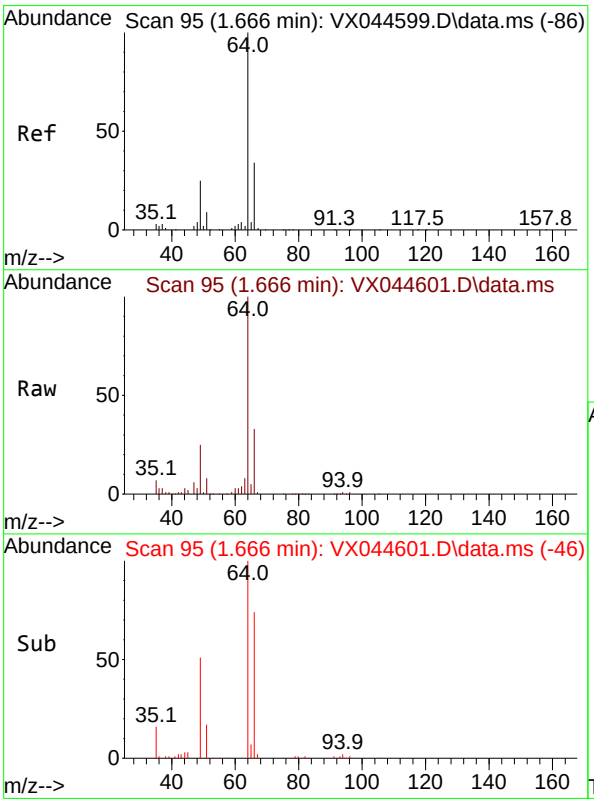
#5
Bromomethane
Concen: 115.510 ug/l
RT: 1.599 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 94 Resp: 156875

Ion	Ratio	Lower	Upper
94	100		
96	94.0	74.6	112.0

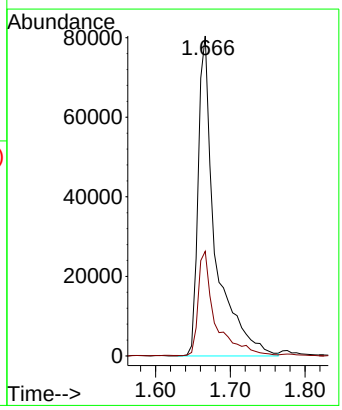


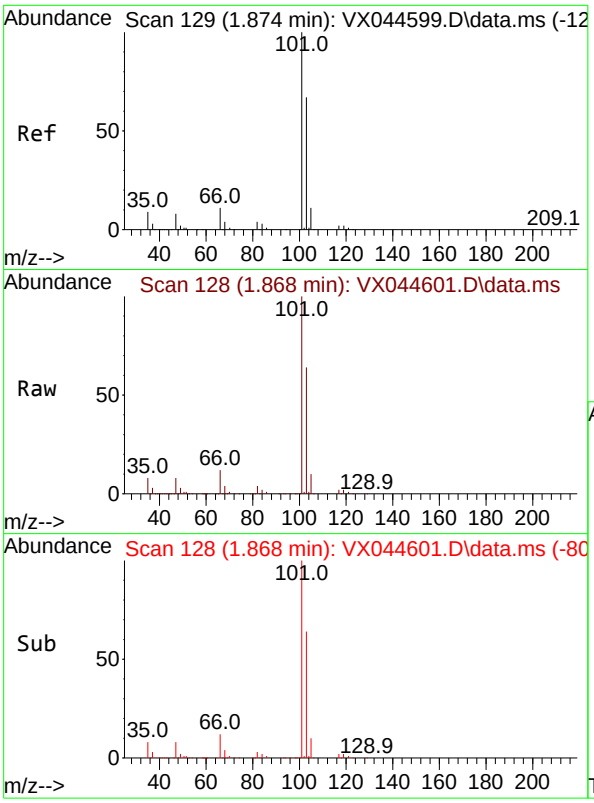


#6
Chloroethane
Concen: 91.779 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 64 Resp: 127744

Ion	Ratio	Lower	Upper
64	100		
66	32.5	27.3	40.9



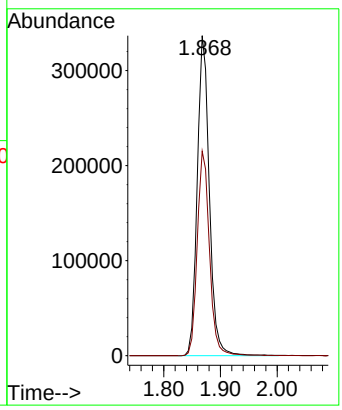


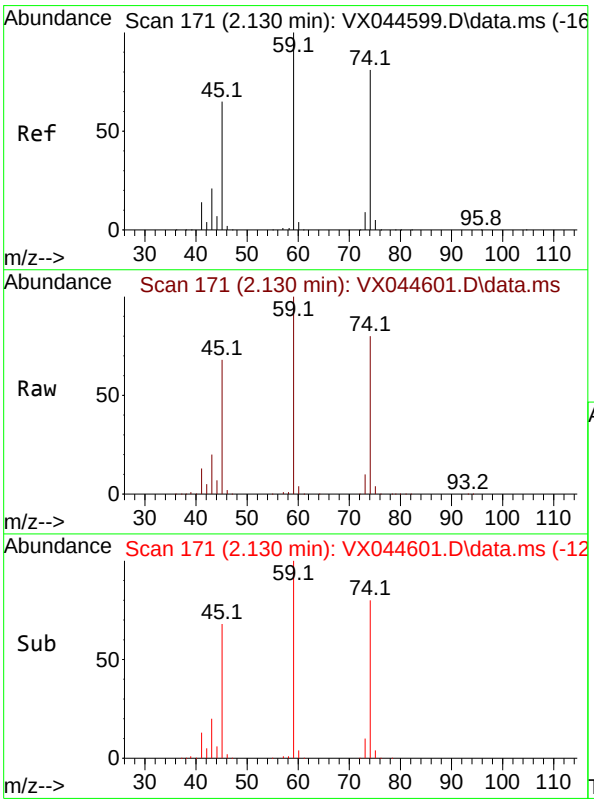
#7
Trichlorofluoromethane
Concen: 127.427 ug/l
RT: 1.868 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:101 Resp: 497464

Ion	Ratio	Lower	Upper
101	100		
103	63.9	53.3	79.9

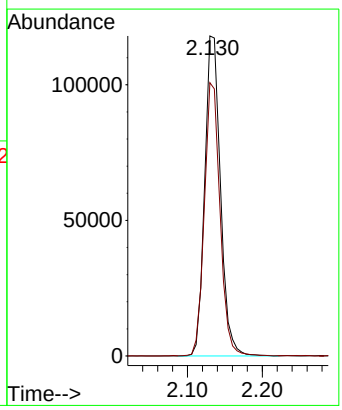


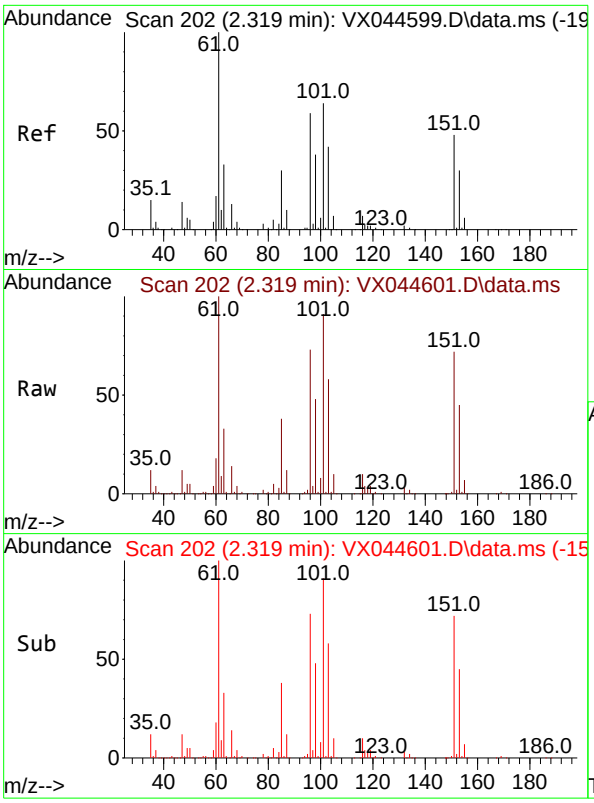


#8
Diethyl Ether
Concen: 125.105 ug/l
RT: 2.130 min Scan# 171
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 74 Resp: 172572

Ion	Ratio	Lower	Upper
74	100		
45	85.4	41.7	125.1



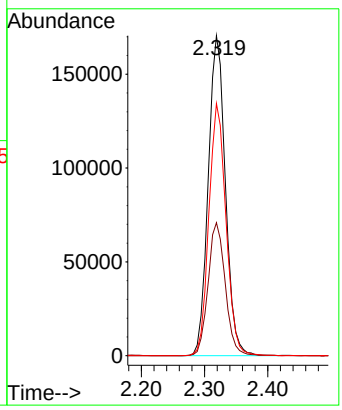


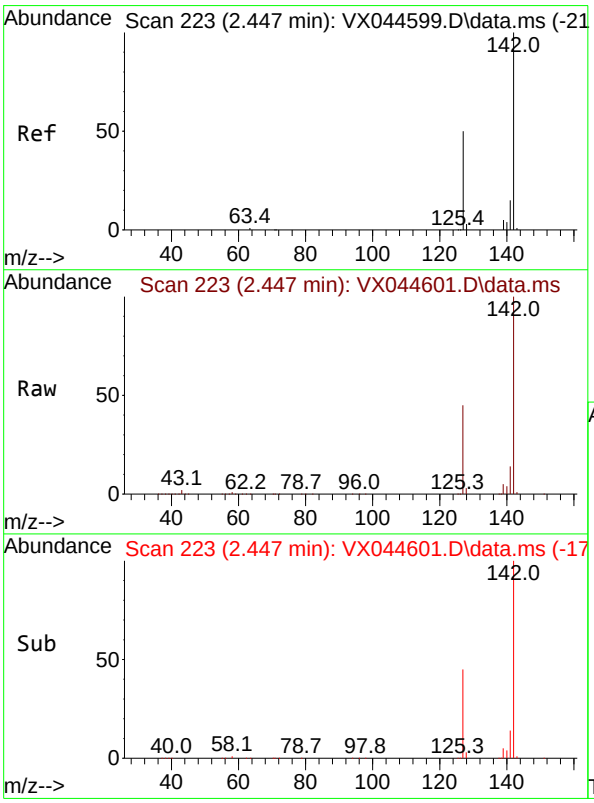
#9
1,1,2-Trichlorotrifluoroethane
Concen: 143.860 ug/l
RT: 2.319 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:101 Resp: 322006

Ion	Ratio	Lower	Upper
101	100		
85	41.7	36.5	54.7
151	78.5	58.6	87.8

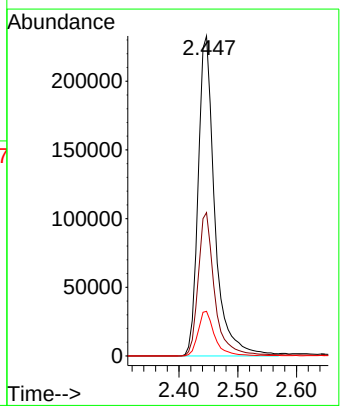


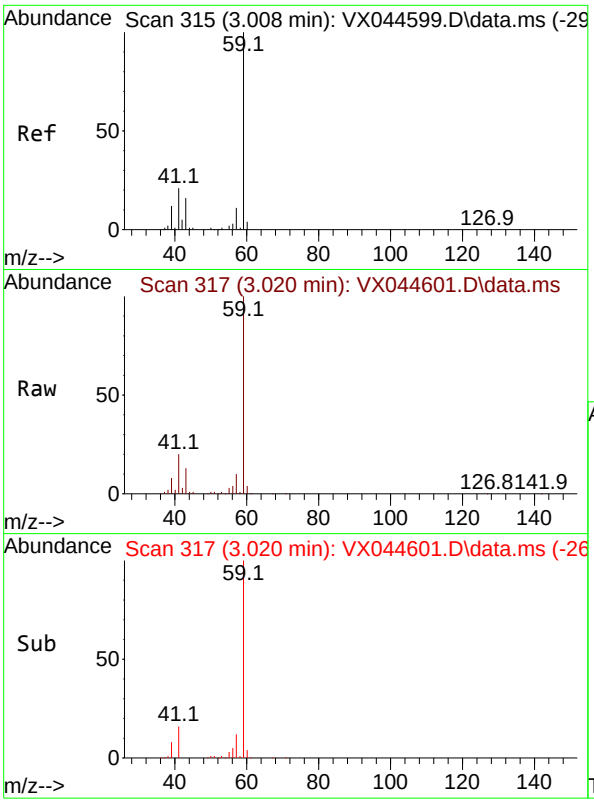


#10
Methyl Iodide
Concen: 146.920 ug/l
RT: 2.447 min Scan# 223
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion:142 Resp: 458572

Ion	Ratio	Lower	Upper
142	100		
127	44.7	41.9	62.9
141	13.9	11.8	17.6



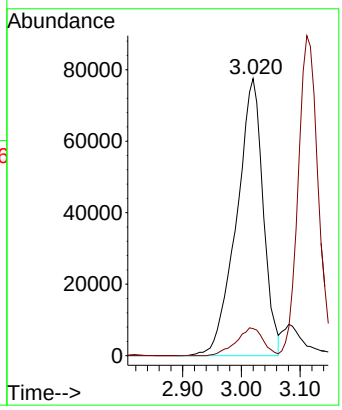


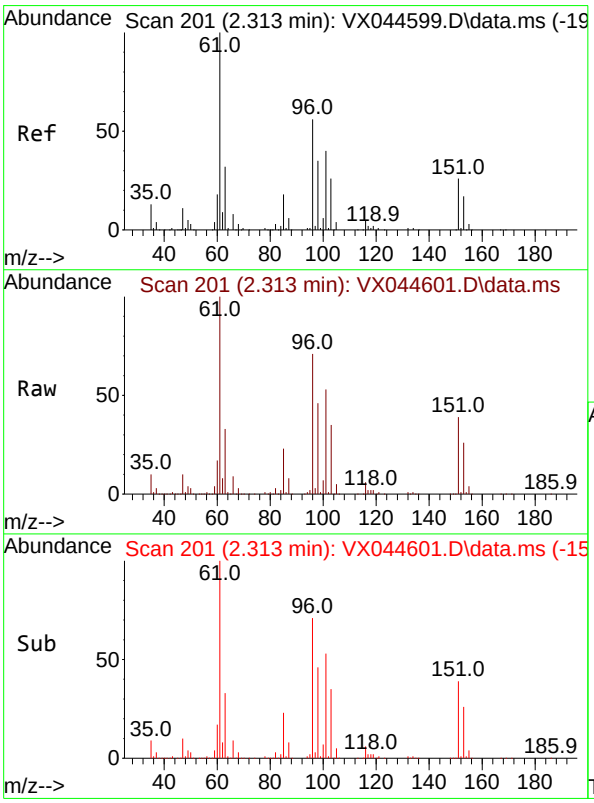
#11
Tert butyl alcohol
Concen: 632.101 ug/l
RT: 3.020 min Scan# 3
Delta R.T. 0.012 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 59 Resp: 243259

Ion	Ratio	Lower	Upper
59	100		
57	10.2	8.6	12.8

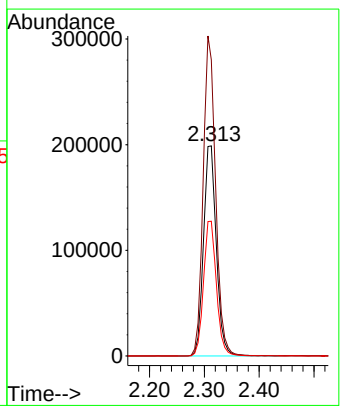


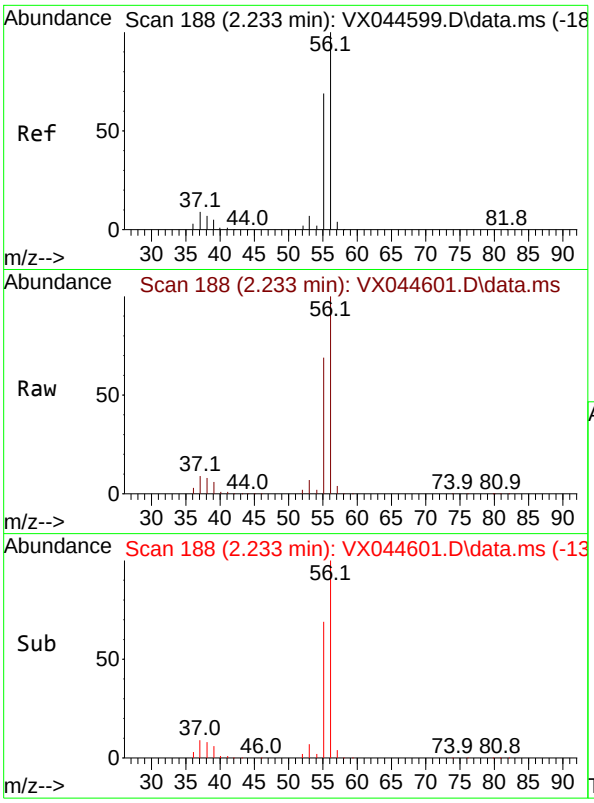


#12
1,1-Dichloroethene
Concen: 148.372 ug/l
RT: 2.313 min Scan# 201
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 96 Resp: 321732

Ion	Ratio	Lower	Upper
96	100		
61	140.9	143.3	214.9#
98	64.1	50.6	76.0



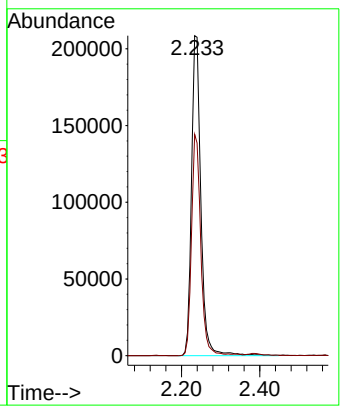


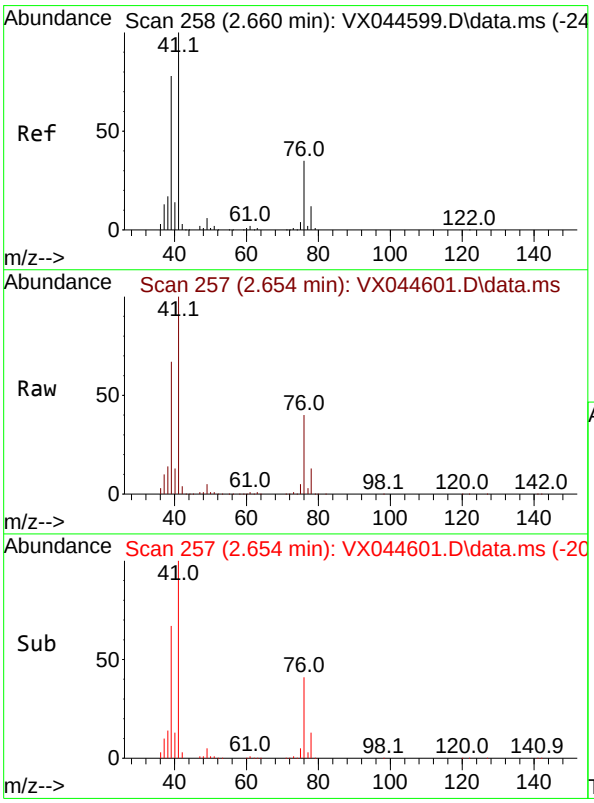
#13
Acrolein
Concen: 684.238 ug/l
RT: 2.233 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 56 Resp: 348160

Ion	Ratio	Lower	Upper
56	100		
55	68.1	55.8	83.8

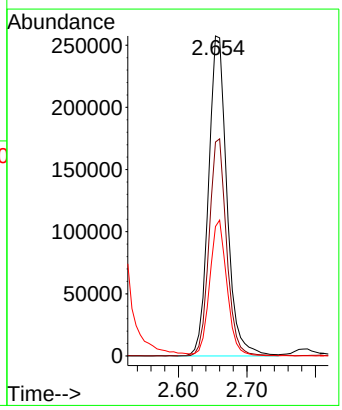


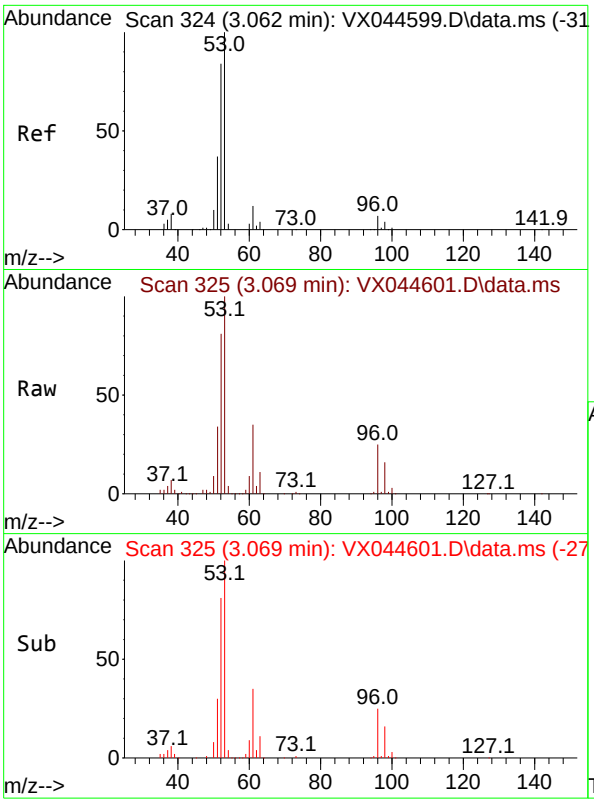


#14
Allyl chloride
Concen: 133.411 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.006 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 41 Resp: 481127

Ion	Ratio	Lower	Upper
41	100		
39	64.0	60.2	90.2
76	39.6	25.9	38.9#



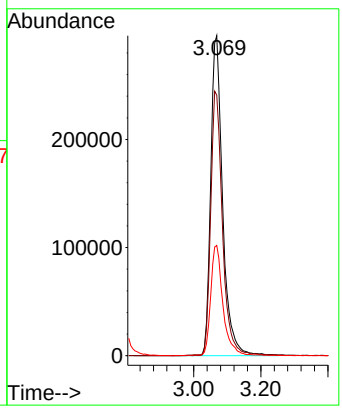


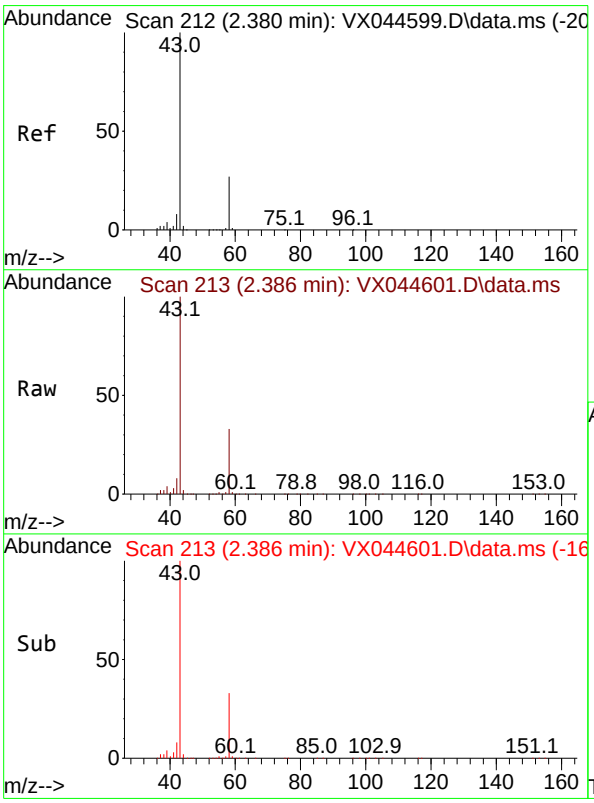
#15
Acrylonitrile
Concen: 658.245 ug/l
RT: 3.069 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 53 Resp: 729569

Ion	Ratio	Lower	Upper
53	100		
52	81.6	67.0	100.6
51	35.6	29.4	44.0

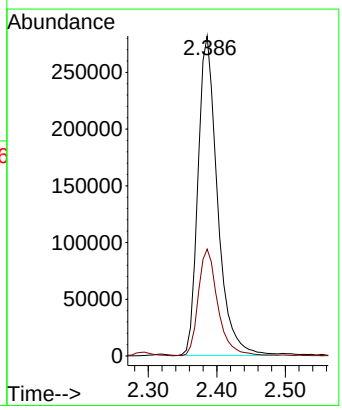


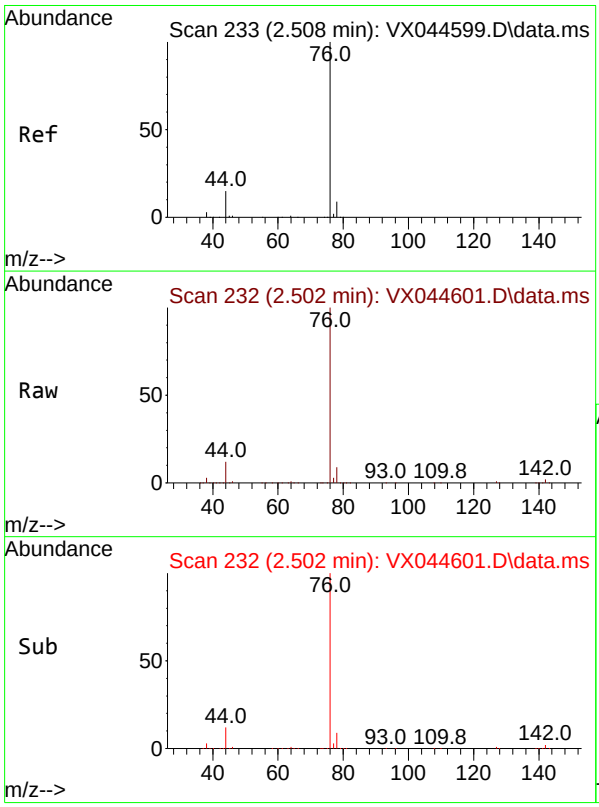


#16
Acetone
Concen: 566.340 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.006 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 43 Resp: 557867

Ion	Ratio	Lower	Upper
43	100		
58	33.3	22.0	33.0#



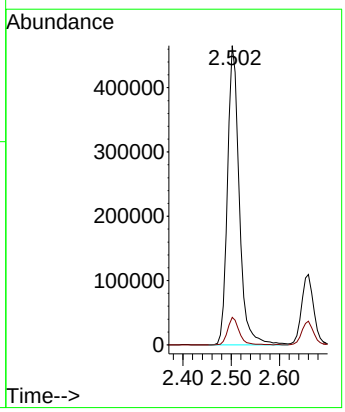


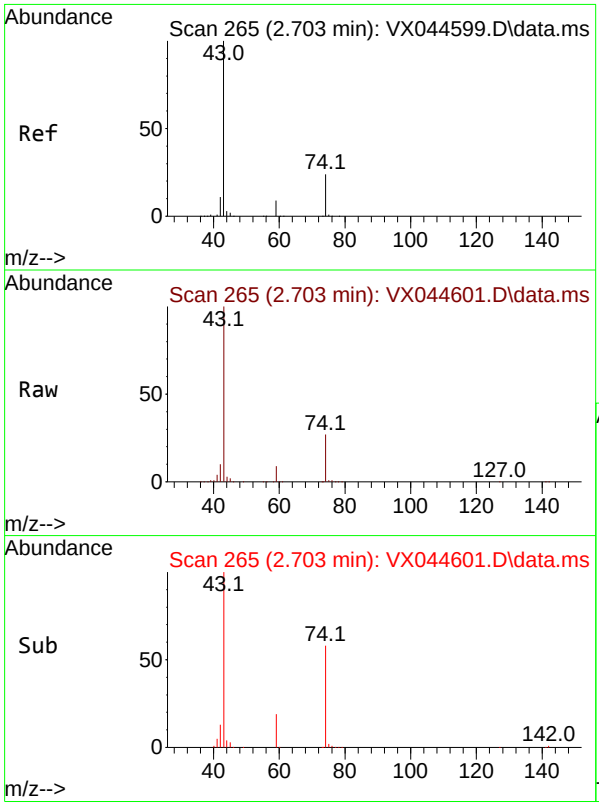
#17
Carbon Disulfide
Concen: 175.284 ug/l
RT: 2.502 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 76 Resp: 785944

Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.1	10.7

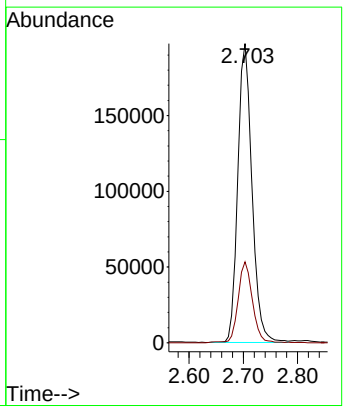


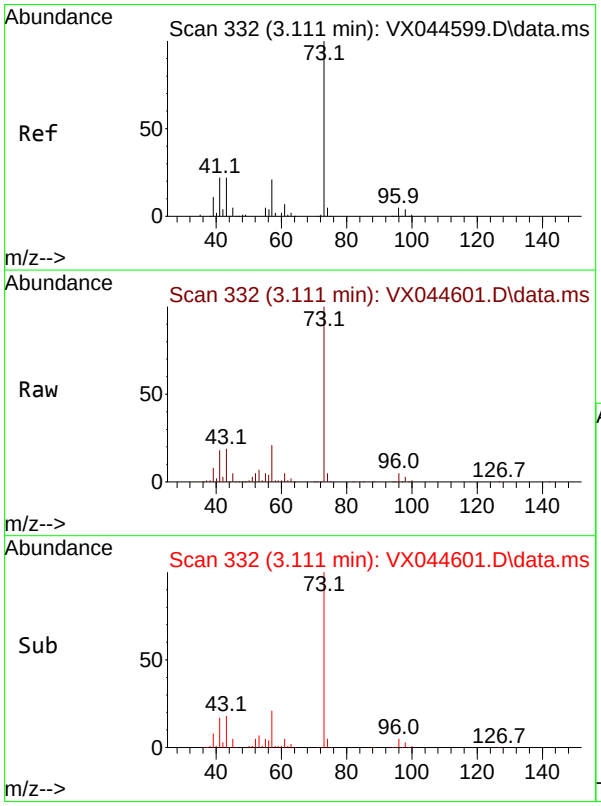


#18
Methyl Acetate
Concen: 123.407 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 43 Resp: 358794

Ion	Ratio	Lower	Upper
43	100		
74	27.4	19.3	28.9



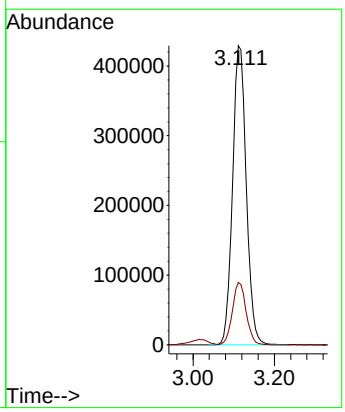


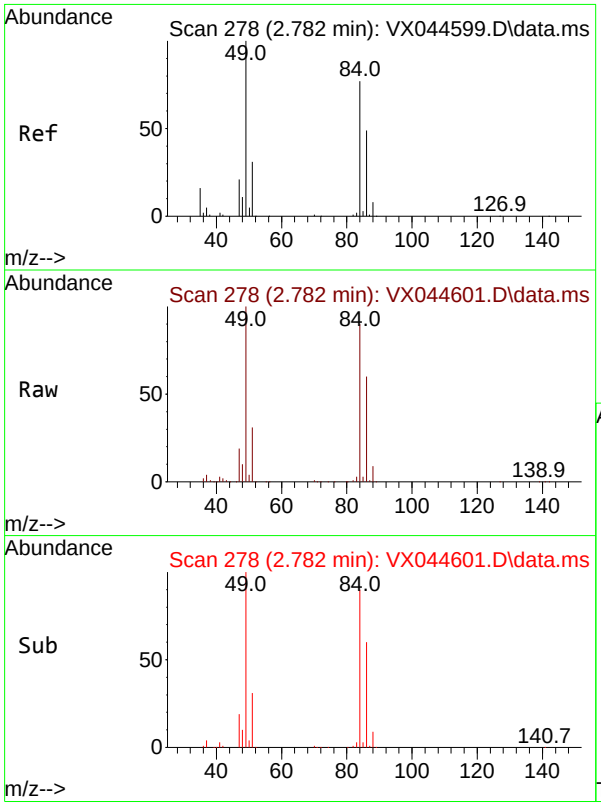
#19
Methyl tert-butyl Ether
Concen: 135.096 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 73 Resp: 1003928

Ion	Ratio	Lower	Upper
73	100		
57	20.8	17.0	25.4

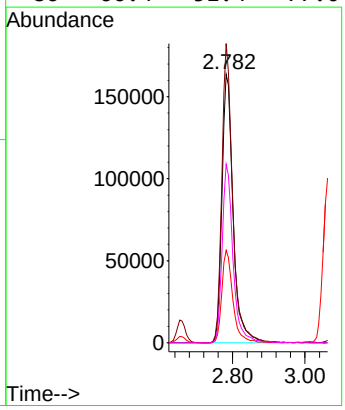


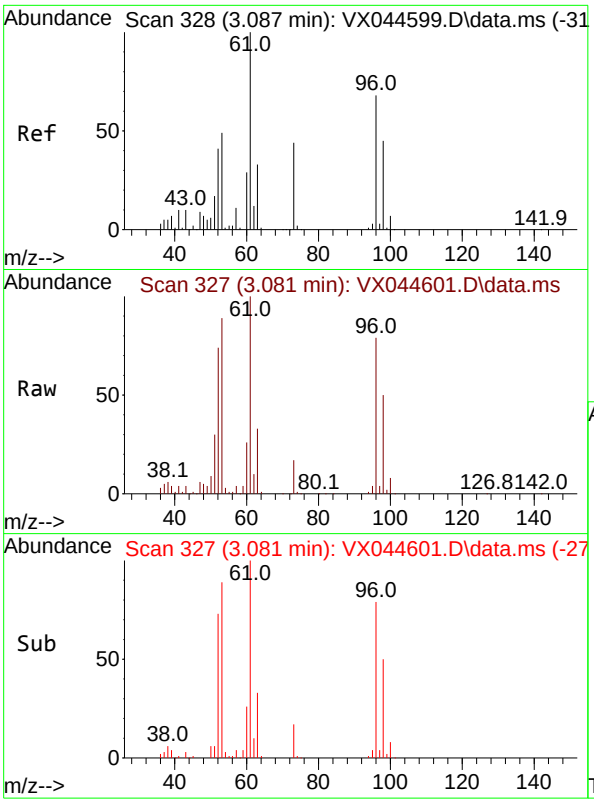


#20
Methylene Chloride
Concen: 138.392 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 84 Resp: 347783

Ion	Ratio	Lower	Upper
84	100		
49	111.4	104.4	156.6
51	34.5	32.0	48.0
86	66.4	51.4	77.0



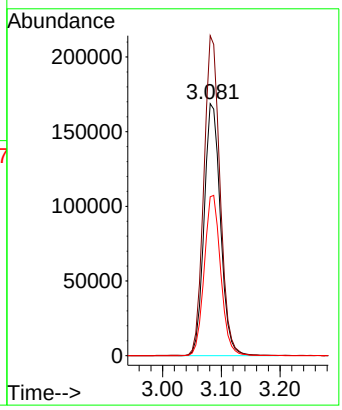


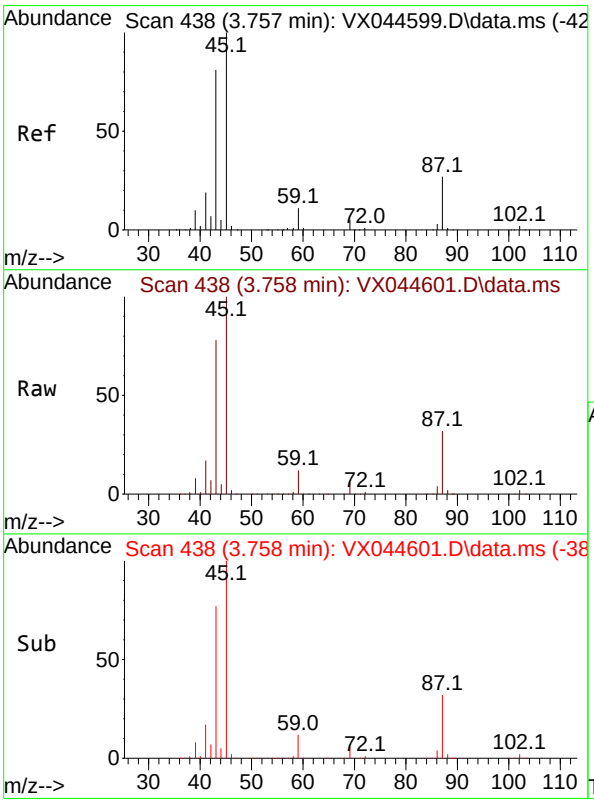
#21
trans-1,2-Dichloroethene
Concen: 146.862 ug/l
RT: 3.081 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 96 Resp: 326842

Ion	Ratio	Lower	Upper
96	100		
61	126.9	118.5	177.7
98	63.1	53.4	80.0

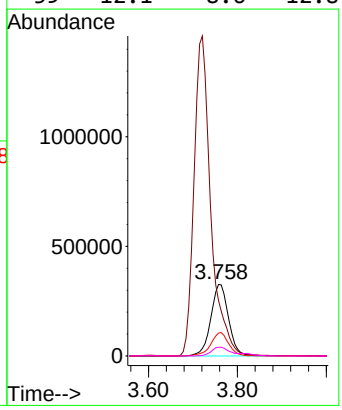


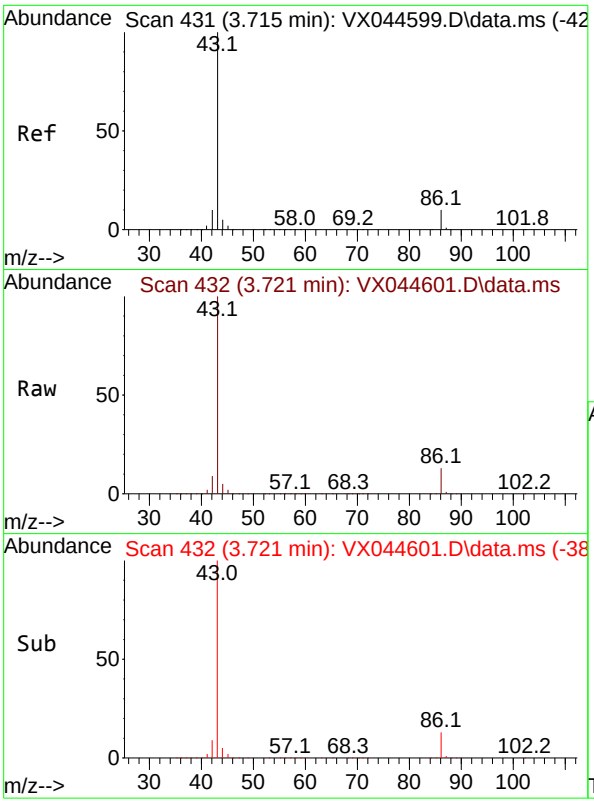


#22
Diisopropyl ether
Concen: 121.714 ug/l
RT: 3.758 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 45 Resp: 902333

Ion	Ratio	Lower	Upper
45	100		
43	77.4	64.6	97.0
87	32.0	21.8	32.8
59	12.1	8.6	12.8



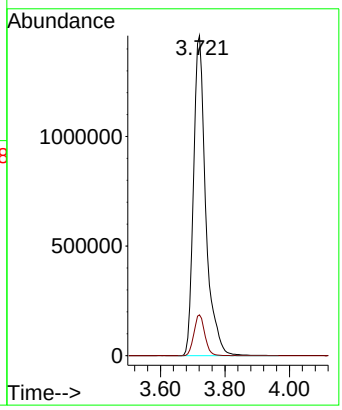


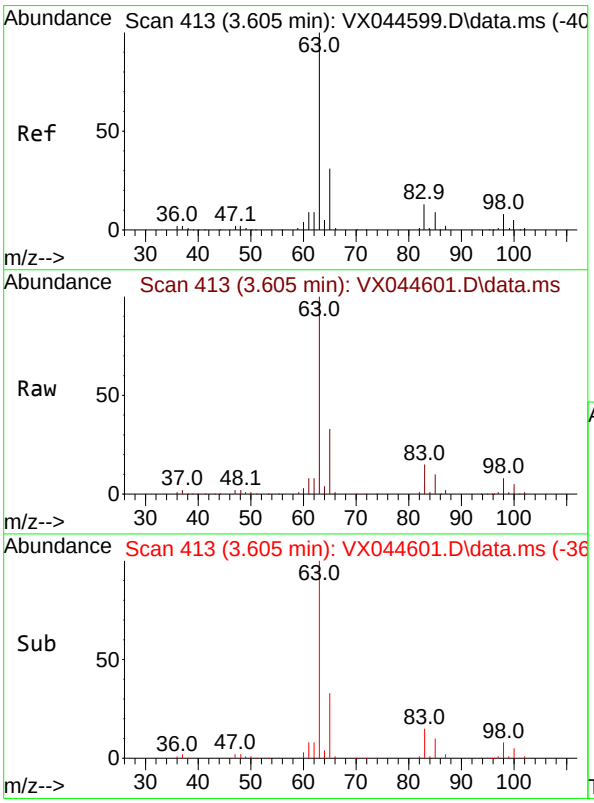
#23
Vinyl Acetate
Concen: 641.181 ug/l
RT: 3.721 min Scan# 4
Delta R.T. 0.006 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 3843854

Ion	Ratio	Lower	Upper
43	100		
86	12.7	8.1	12.1#

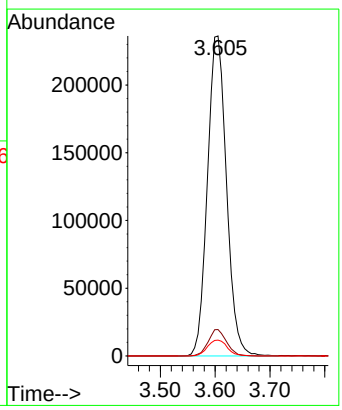


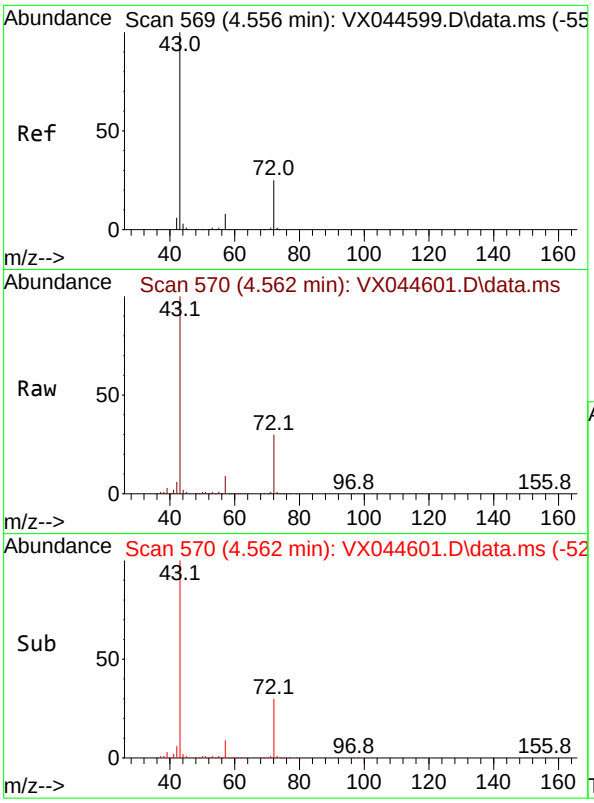


#24
1,1-Dichloroethane
Concen: 131.892 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 63 Resp: 569743

Ion	Ratio	Lower	Upper
63	100		
98	8.3	3.8	11.4
100	5.0	2.4	7.2



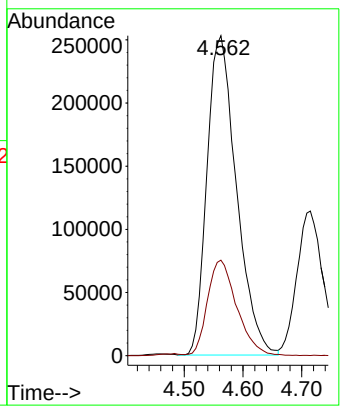


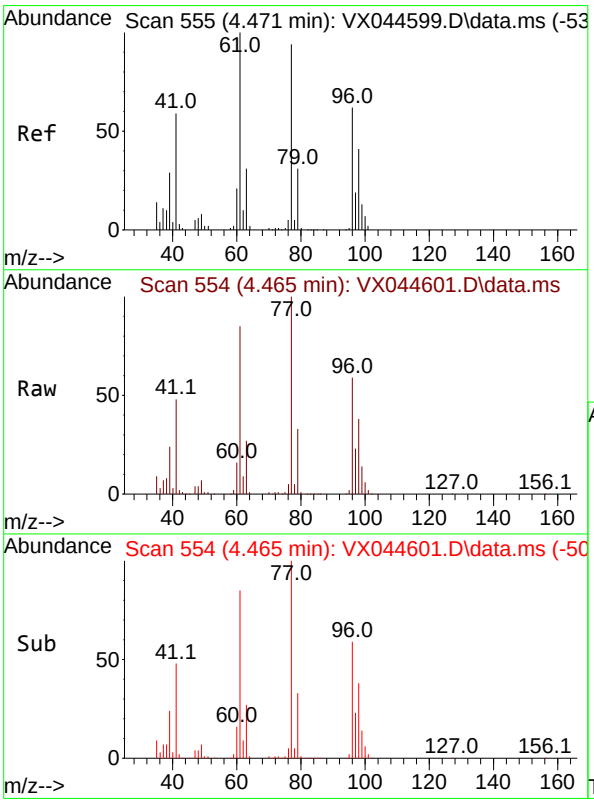
#25
2-Butanone
Concen: 619.080 ug/l
RT: 4.562 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 880207

Ion	Ratio	Lower	Upper
43	100		
72	29.5	20.2	30.2

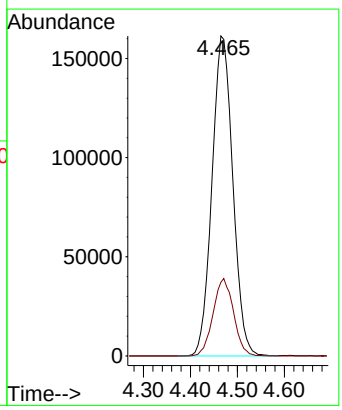


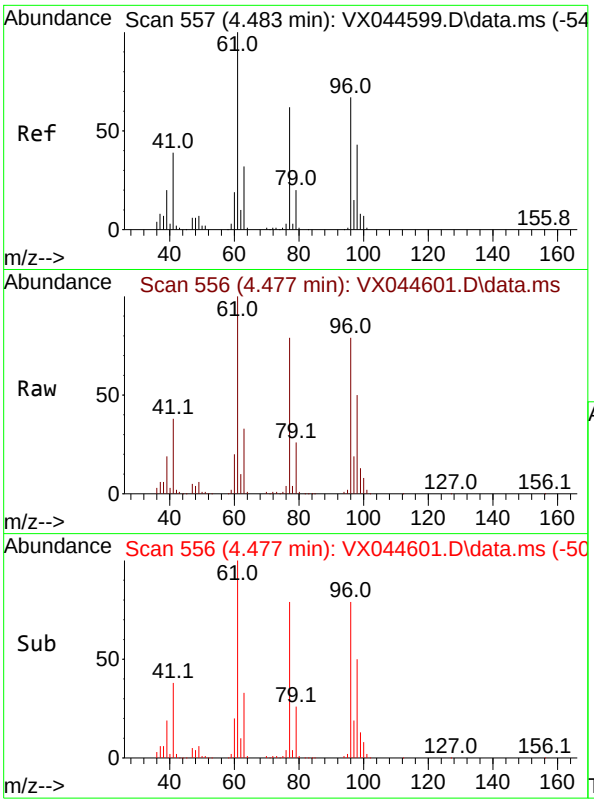


#26
2,2-Dichloropropane
Concen: 133.162 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.006 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 77 Resp: 497336

Ion	Ratio	Lower	Upper
77	100		
97	23.8	10.7	32.1



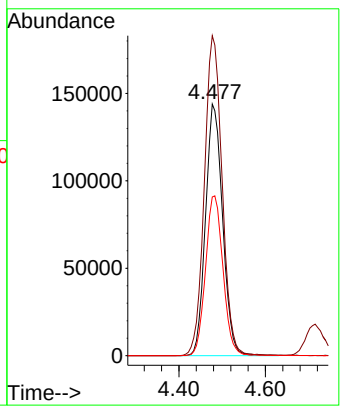


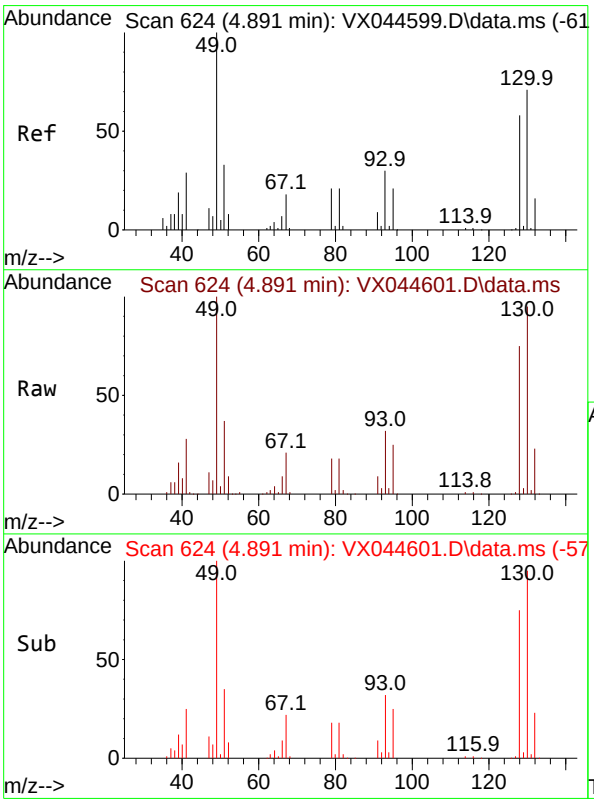
#27
cis-1,2-Dichloroethene
Concen: 145.402 ug/l
RT: 4.477 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 96 Resp: 394578

Ion	Ratio	Lower	Upper
96	100		
61	132.1	0.0	302.8
98	64.8	0.0	130.0

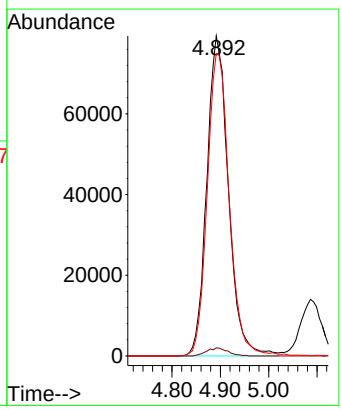


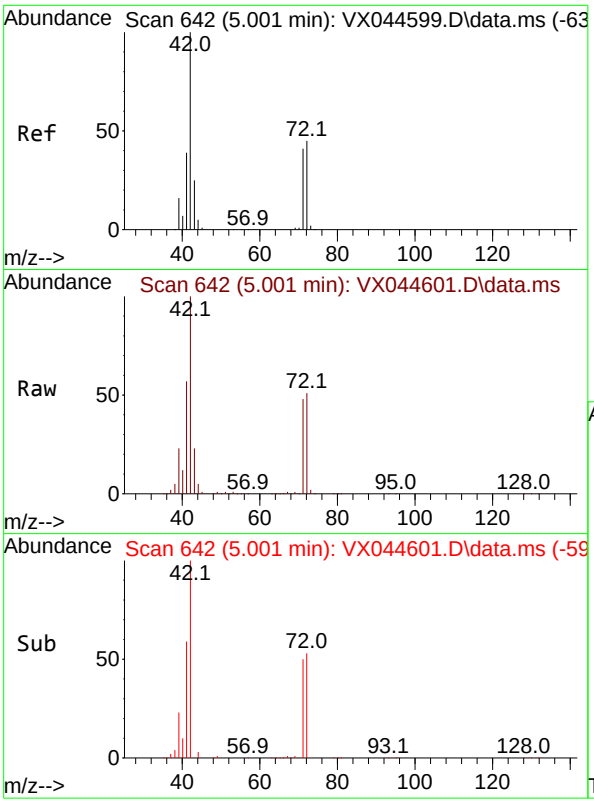


#28
Bromochloromethane
Concen: 122.401 ug/l
RT: 4.891 min Scan# 624
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 49 Resp: 246126

Ion	Ratio	Lower	Upper
49	100		
129	2.5	0.0	4.2
130	96.4	58.8	88.2#



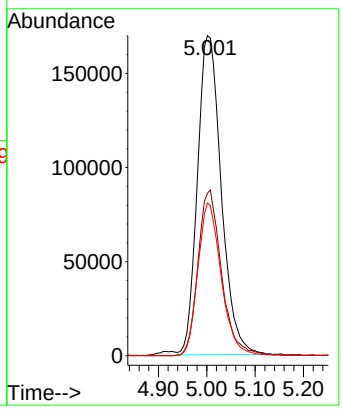


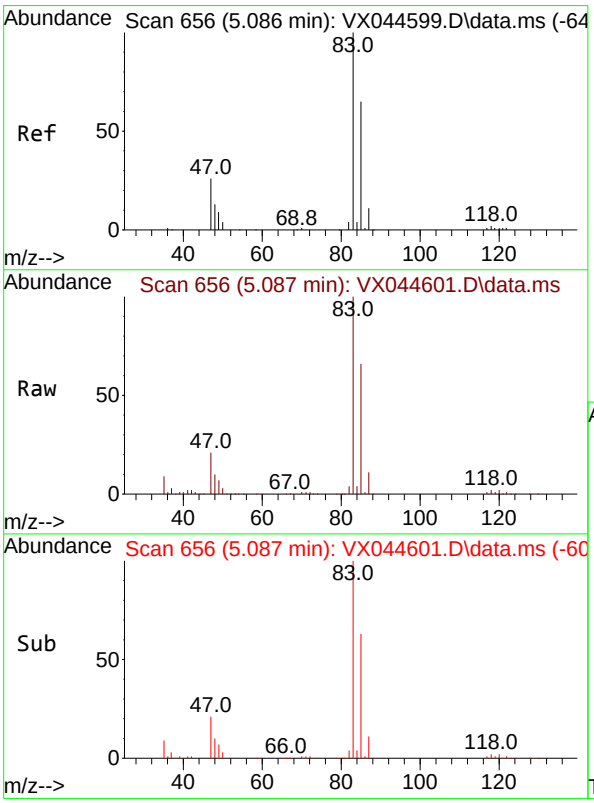
#29
Tetrahydrofuran
Concen: 595.793 ug/l
RT: 5.001 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 42 Resp: 580089

Ion	Ratio	Lower	Upper
42	100		
72	51.4	36.1	54.1
71	47.1	33.0	49.6

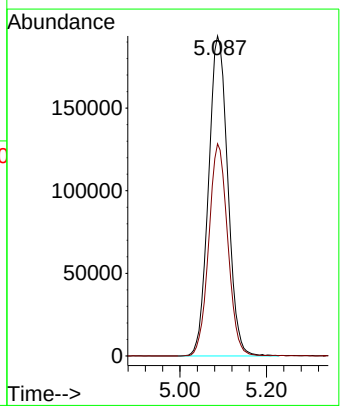


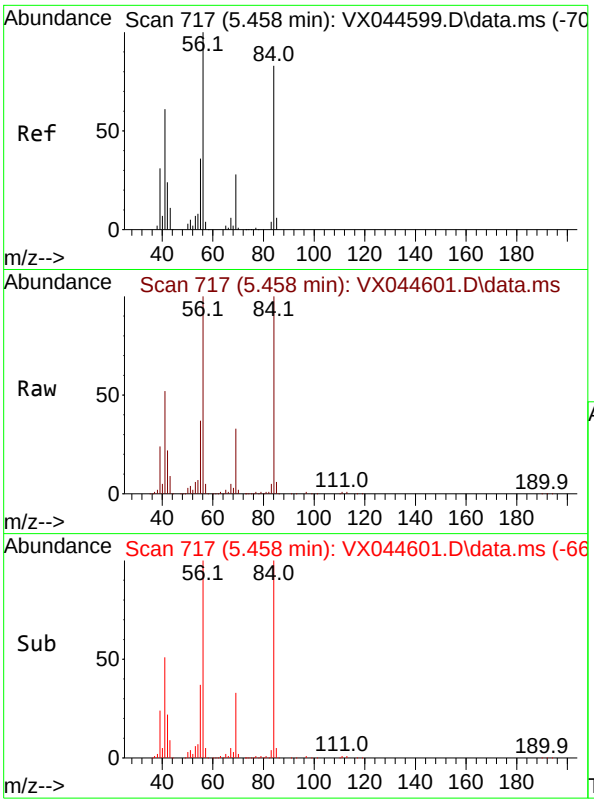


#30
Chloroform
Concen: 128.421 ug/l
RT: 5.087 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 83 Resp: 598049

Ion	Ratio	Lower	Upper
83	100		
85	66.3	52.3	78.5



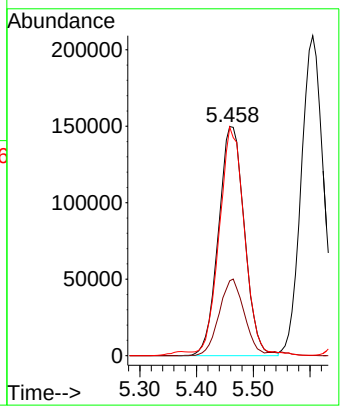


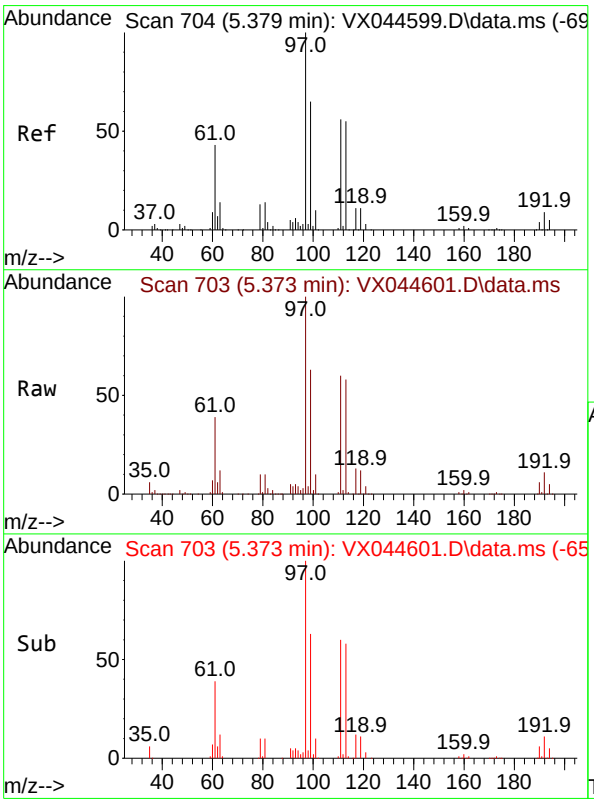
#31
Cyclohexane
Concen: 134.163 ug/l
RT: 5.458 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 56 Resp: 475840

Ion	Ratio	Lower	Upper
56	100		
69	32.7	22.2	33.4
84	98.3	66.6	100.0

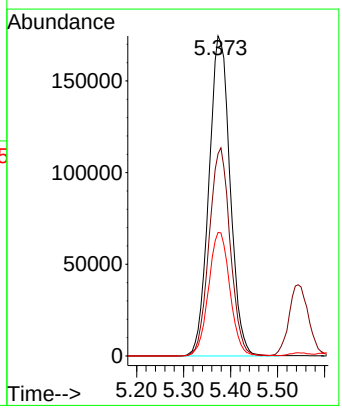


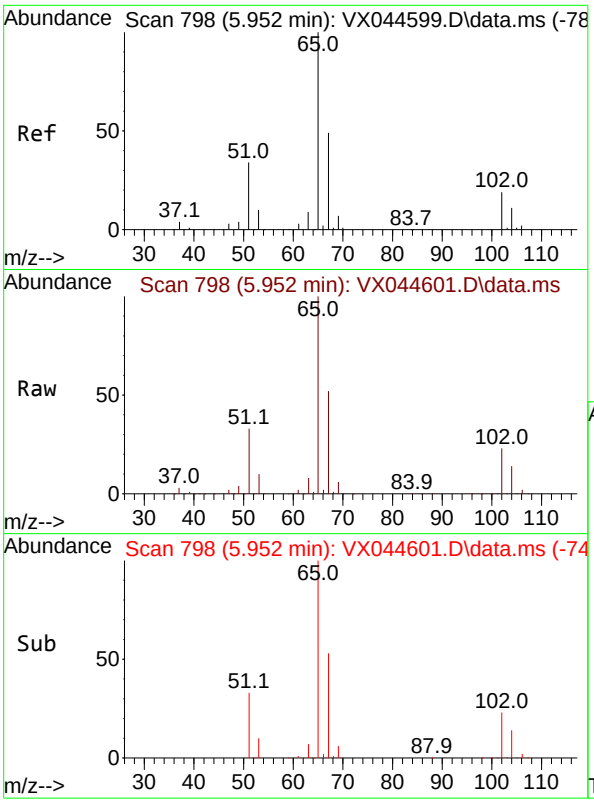


#32
1,1,1-Trichloroethane
Concen: 139.254 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.006 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 97 Resp: 545752

Ion	Ratio	Lower	Upper
97	100		
99	64.7	52.1	78.1
61	39.0	36.8	55.2



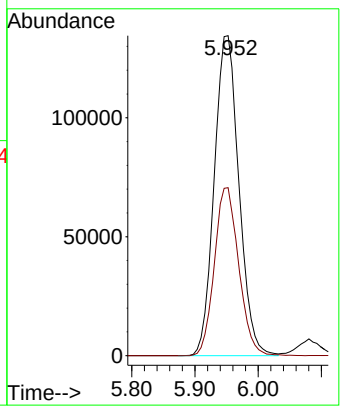


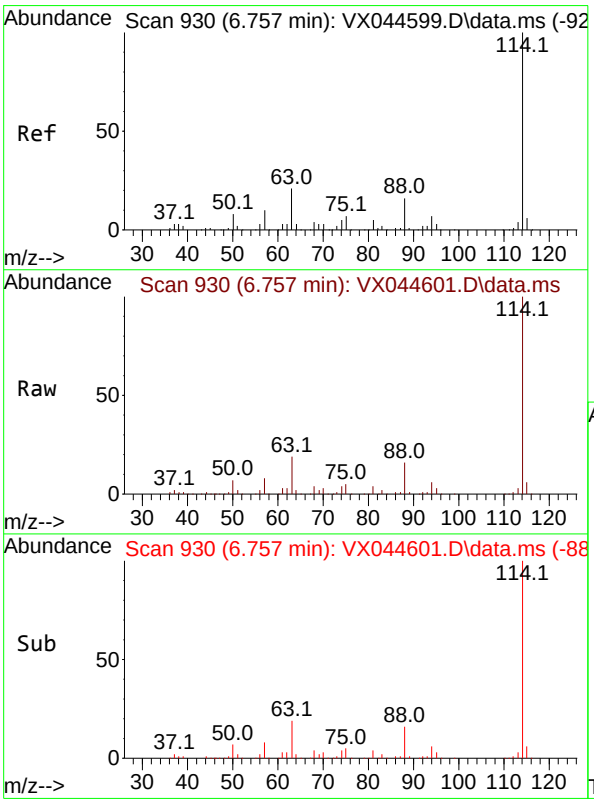
#33
1,2-Dichloroethane-d4
Concen: 116.405 ug/l
RT: 5.952 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 65 Resp: 363804

Ion	Ratio	Lower	Upper
65	100		
67	51.9	0.0	99.0

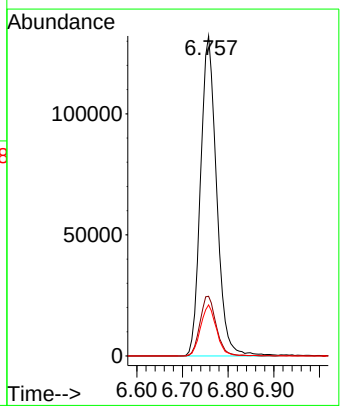


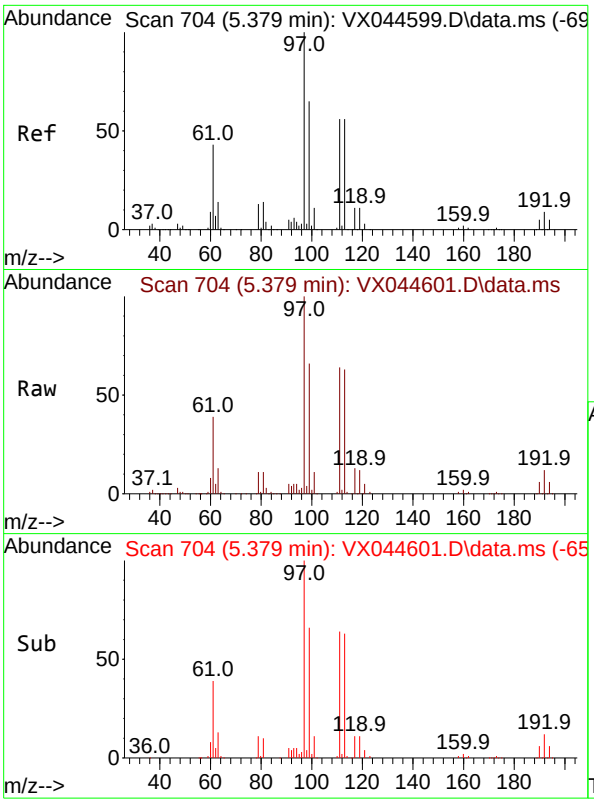


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion:114 Resp: 322230

Ion	Ratio	Lower	Upper
114	100		
63	18.7	0.0	42.6
88	16.0	0.0	32.6



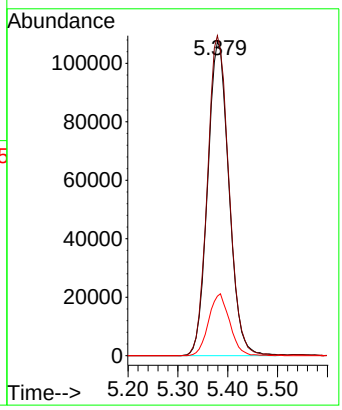


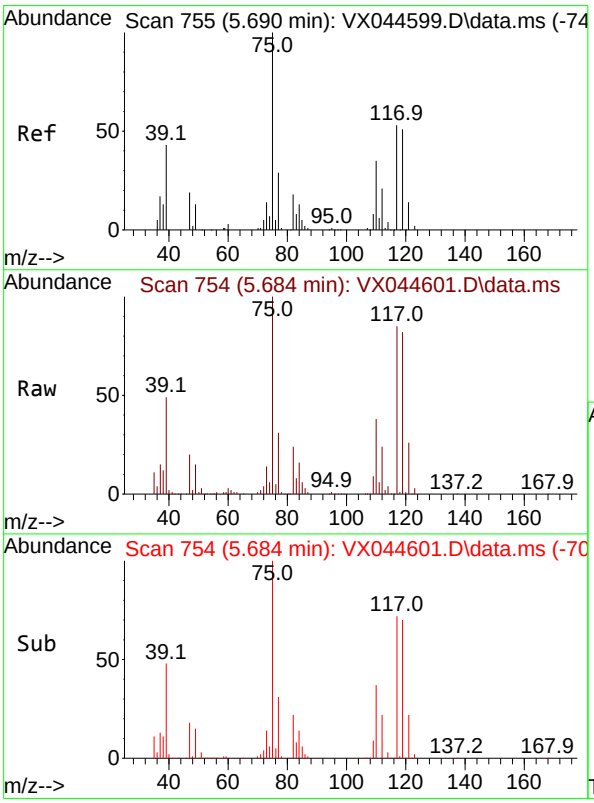
#35
Dibromofluoromethane
Concen: 144.173 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:113 Resp: 318562

Ion	Ratio	Lower	Upper
113	100		
111	102.8	83.3	124.9
192	19.5	14.3	21.5

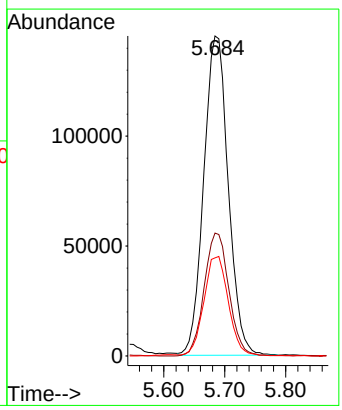


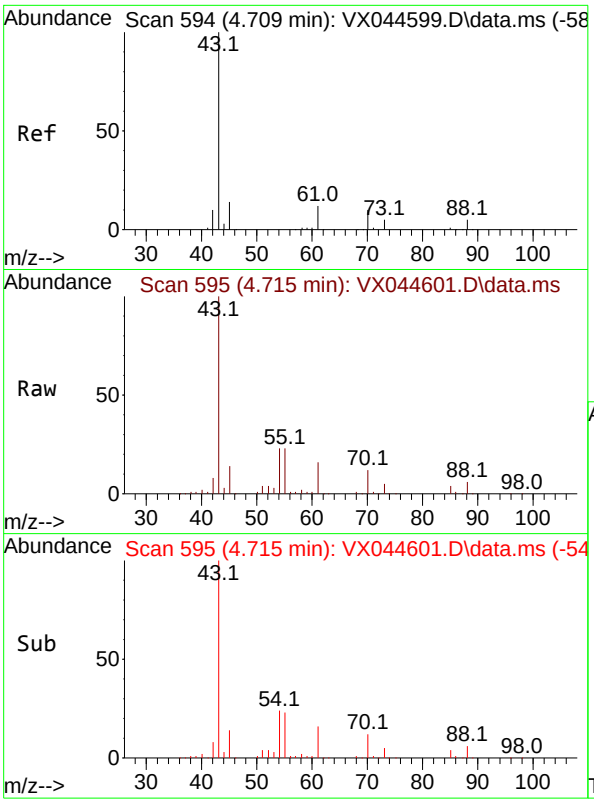


#36
1,1-Dichloropropene
Concen: 142.120 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 75 Resp: 406061

Ion	Ratio	Lower	Upper
75	100		
110	38.8	17.3	51.9
77	31.1	24.7	37.1



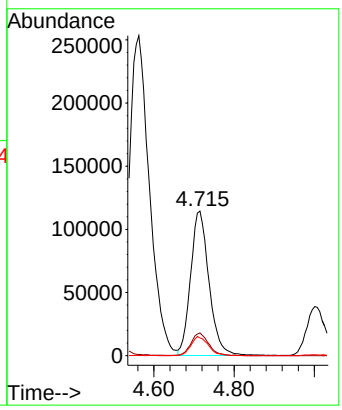


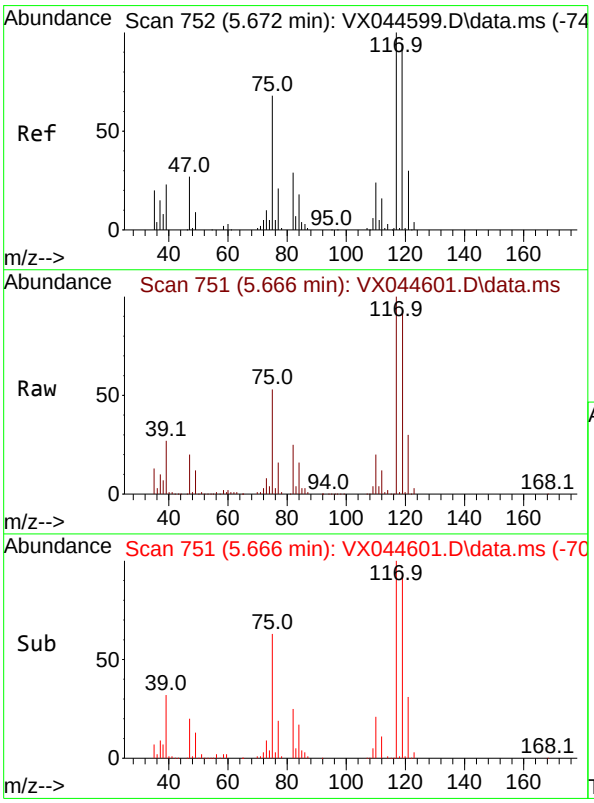
#37
Ethyl Acetate
Concen: 124.576 ug/l
RT: 4.715 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 363828

Ion	Ratio	Lower	Upper
43	100		
61	14.6	9.9	14.9
70	12.6	8.0	12.0#

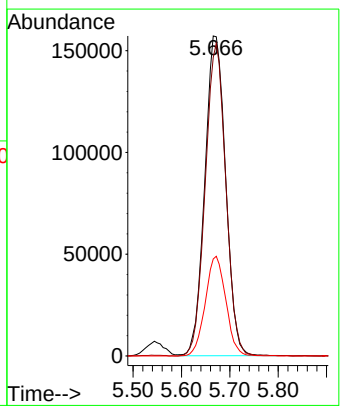


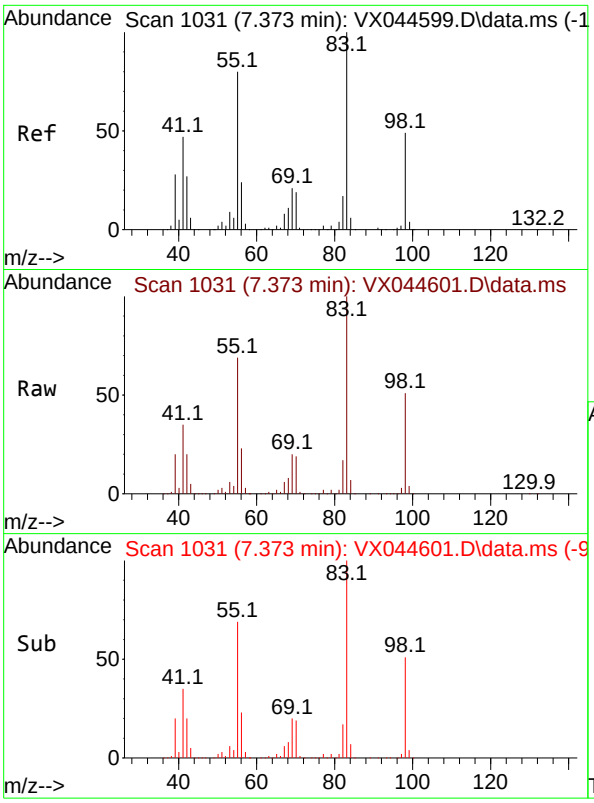


#38
Carbon Tetrachloride
Concen: 148.724 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion:117 Resp: 471467

Ion	Ratio	Lower	Upper
117	100		
119	93.4	74.5	111.7
121	30.3	24.1	36.1



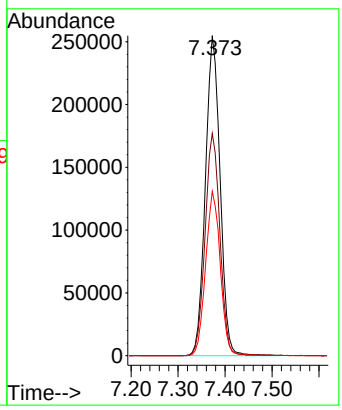


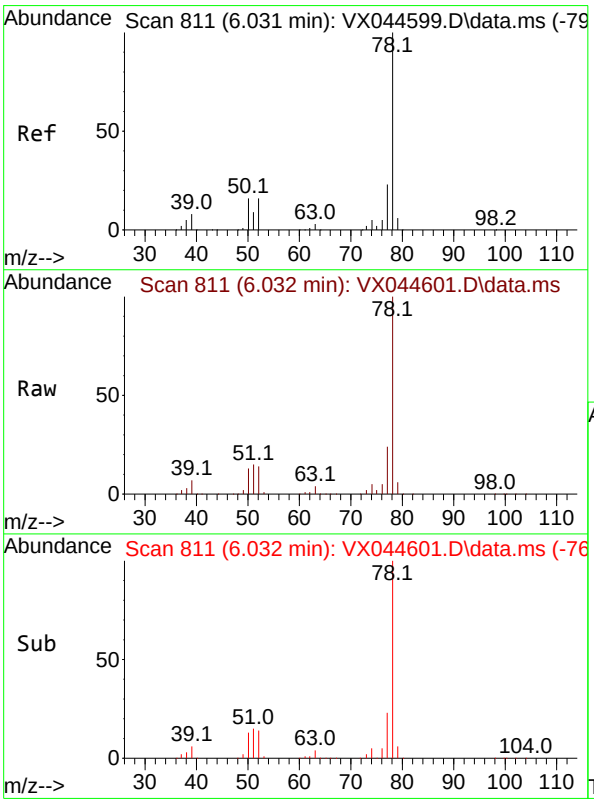
#39
Methylcyclohexane
Concen: 151.439 ug/l
RT: 7.373 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 83 Resp: 552098

Ion	Ratio	Lower	Upper
83	100		
55	69.5	64.1	96.1
98	51.4	38.9	58.3

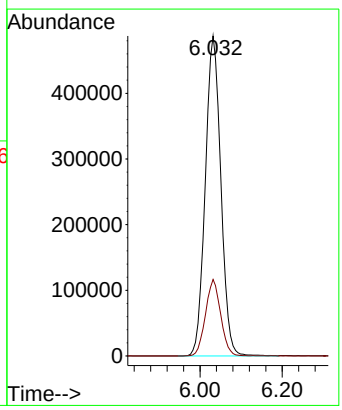


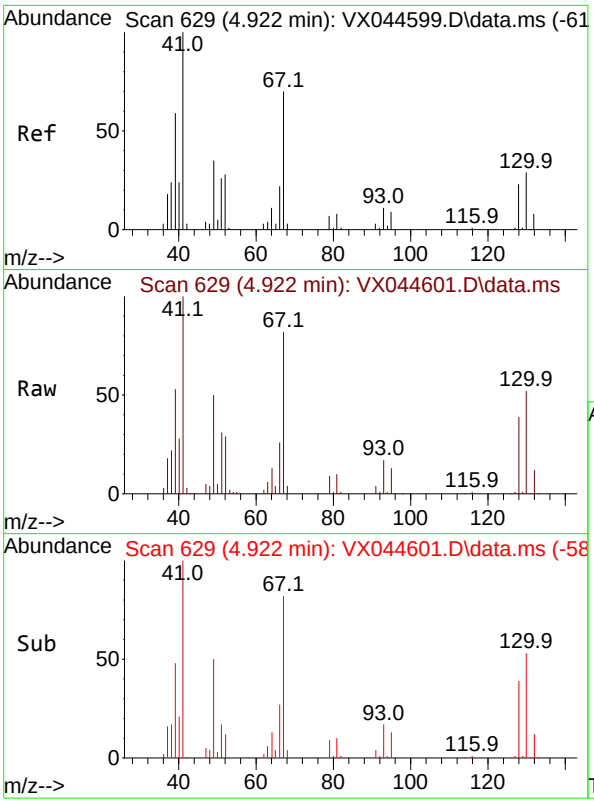


#40
Benzene
Concen: 142.310 ug/l
RT: 6.032 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 78 Resp: 1280226

Ion	Ratio	Lower	Upper
78	100		
77	23.9	18.8	28.2



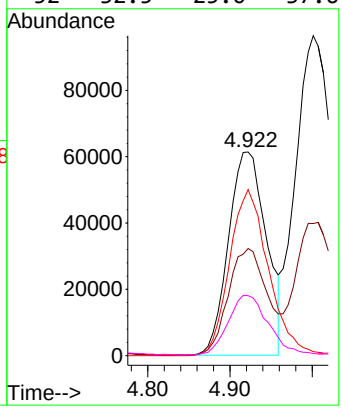


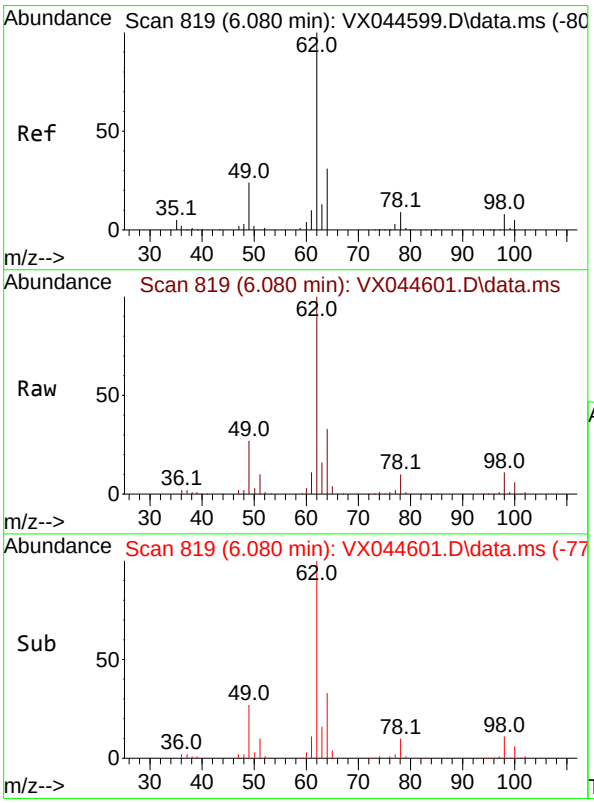
#41
Methacrylonitrile
Concen: 125.194 ug/l
RT: 4.922 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 41 Resp: 196413

Ion	Ratio	Lower	Upper
41	100		
39	53.1	47.0	70.4
67	84.4	57.4	86.2
52	32.5	25.0	37.6

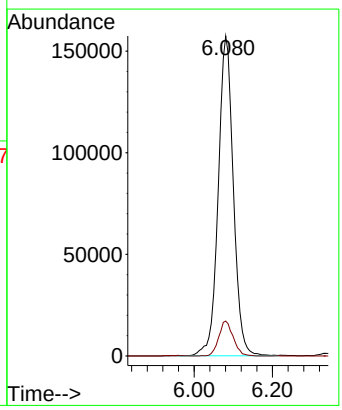


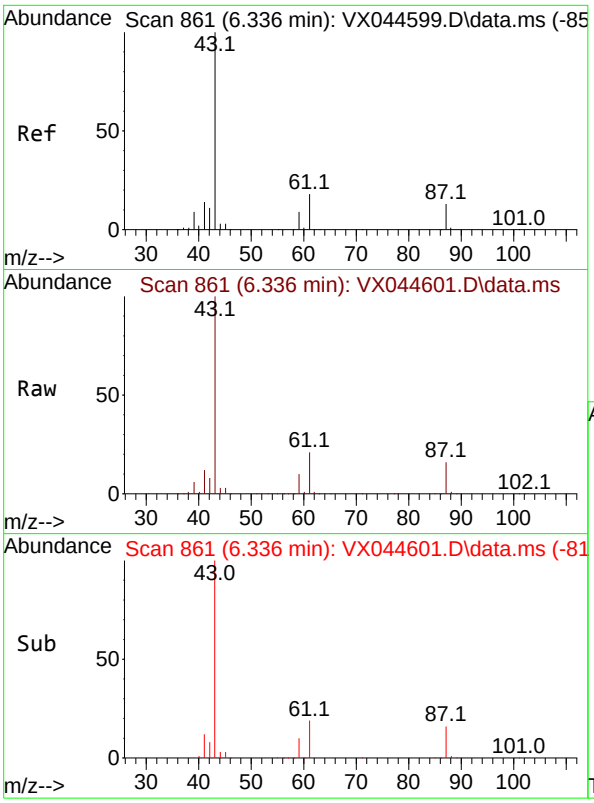


#42
1,2-Dichloroethane
Concen: 120.148 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 62 Resp: 422697

Ion	Ratio	Lower	Upper
62	100		
98	10.4	0.0	15.8



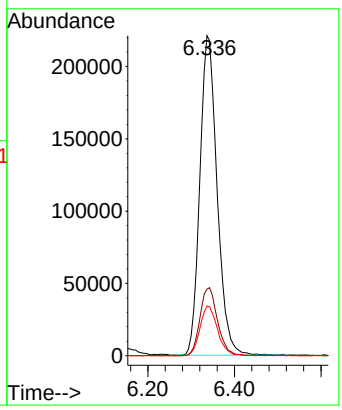


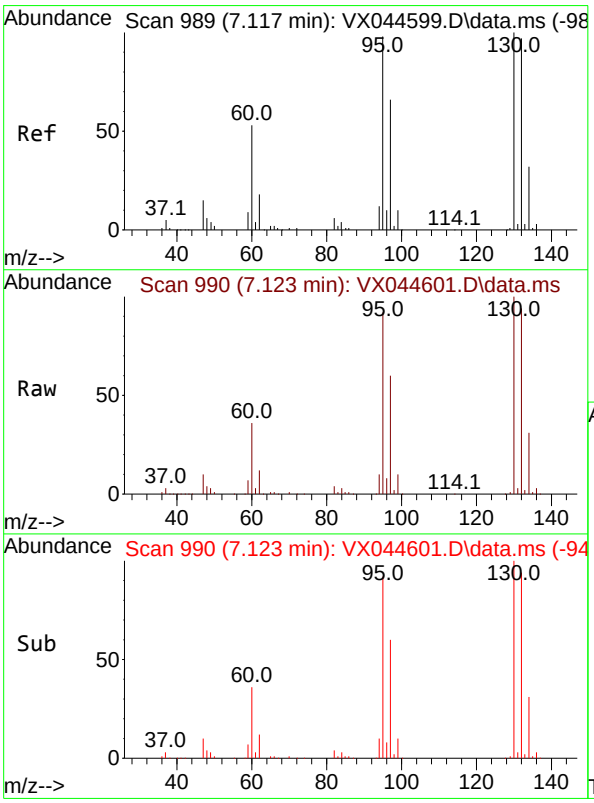
#43
Isopropyl Acetate
Concen: 126.783 ug/l
RT: 6.336 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 611339

Ion	Ratio	Lower	Upper
43	100		
61	21.6	14.5	21.7
87	15.8	10.1	15.1#

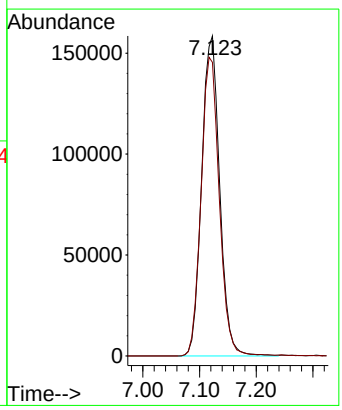


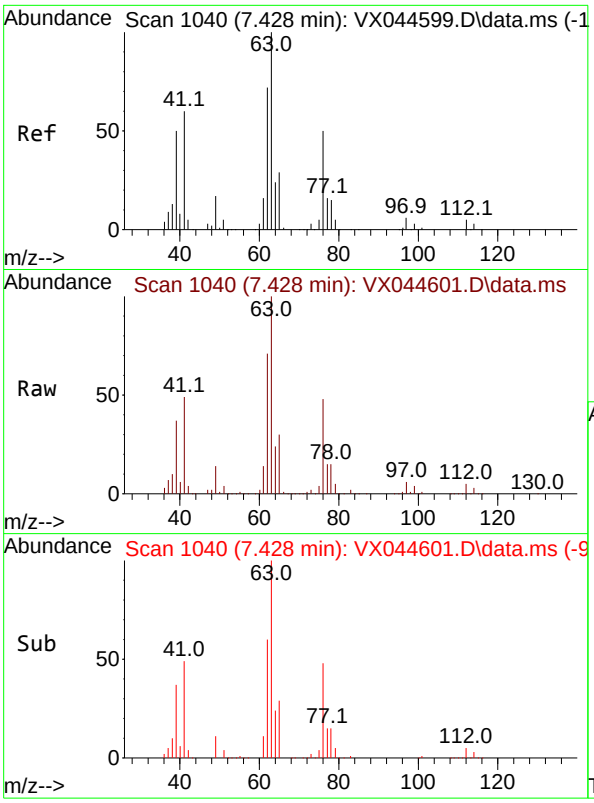


#44
Trichloroethene
Concen: 152.030 ug/l
RT: 7.123 min Scan# 990
Delta R.T. 0.006 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion:130 Resp: 349611

Ion	Ratio	Lower	Upper
130	100		
95	91.8	0.0	195.6



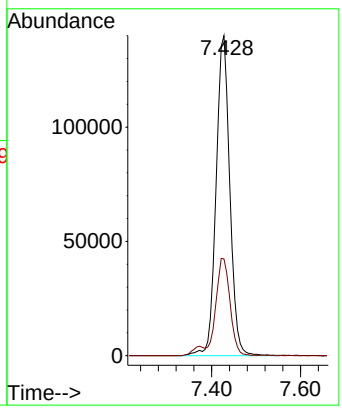


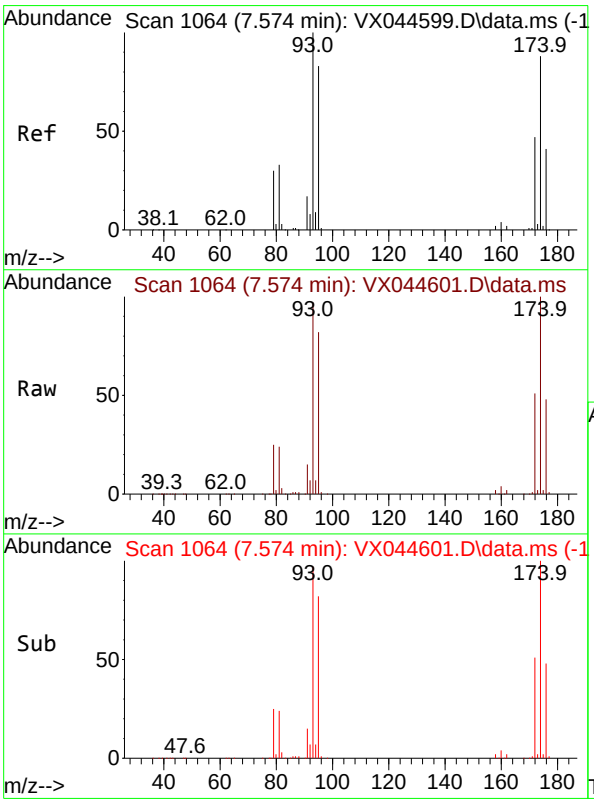
#45
1,2-Dichloropropane
Concen: 136.469 ug/l
RT: 7.428 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 63 Resp: 299322

Ion	Ratio	Lower	Upper
63	100		
65	30.3	23.0	34.4

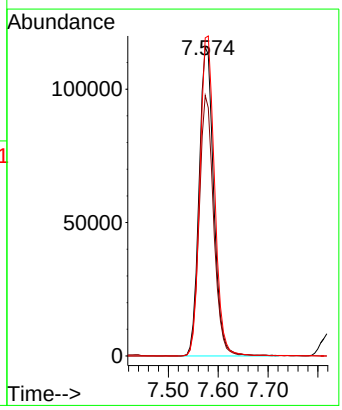


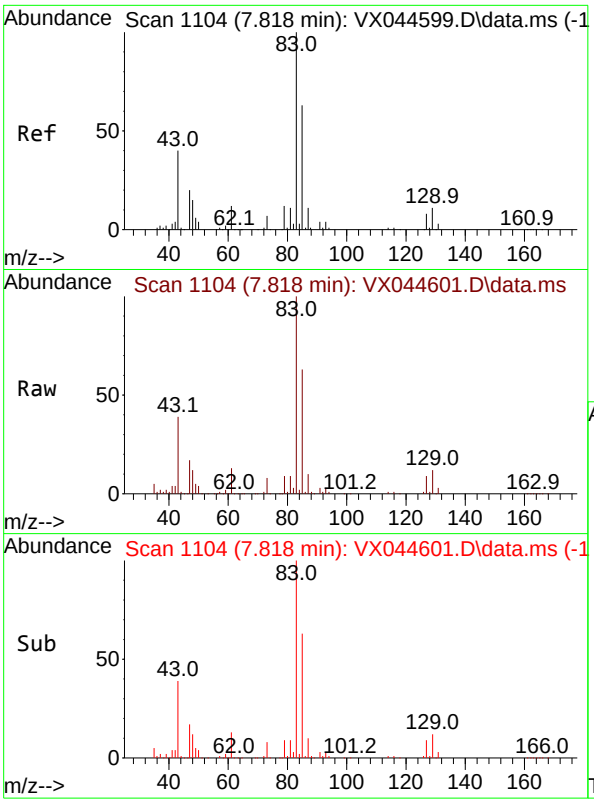


#46
Dibromomethane
Concen: 138.350 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 93 Resp: 235994

Ion	Ratio	Lower	Upper
93	100		
95	82.9	65.8	98.6
174	103.5	73.4	110.0



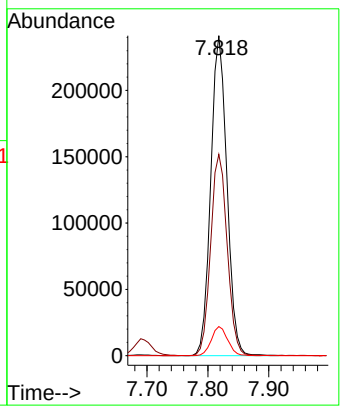


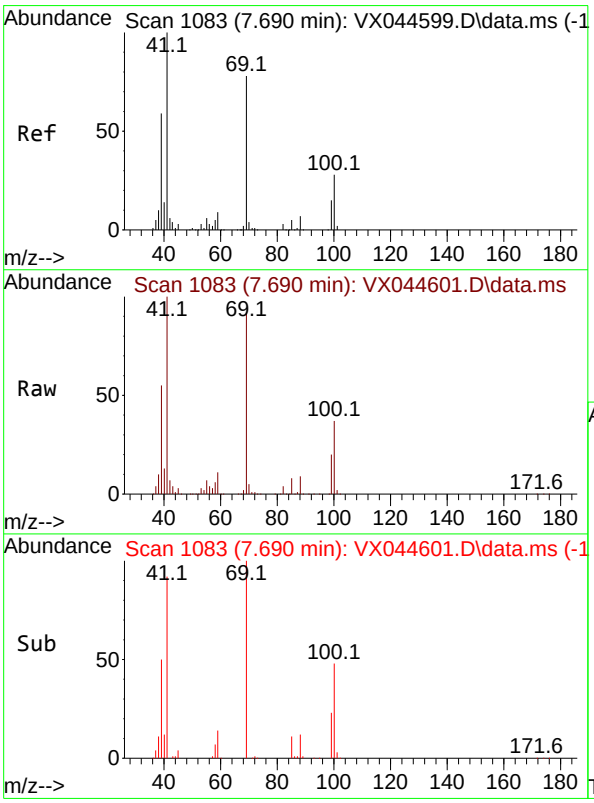
#47
Bromodichloromethane
Concen: 143.029 ug/l
RT: 7.818 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 83 Resp: 443978

Ion	Ratio	Lower	Upper
83	100		
85	62.9	50.4	75.6
127	9.1	6.2	9.4

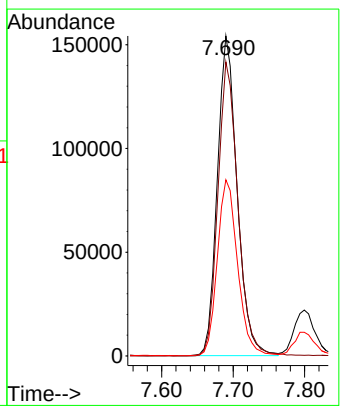


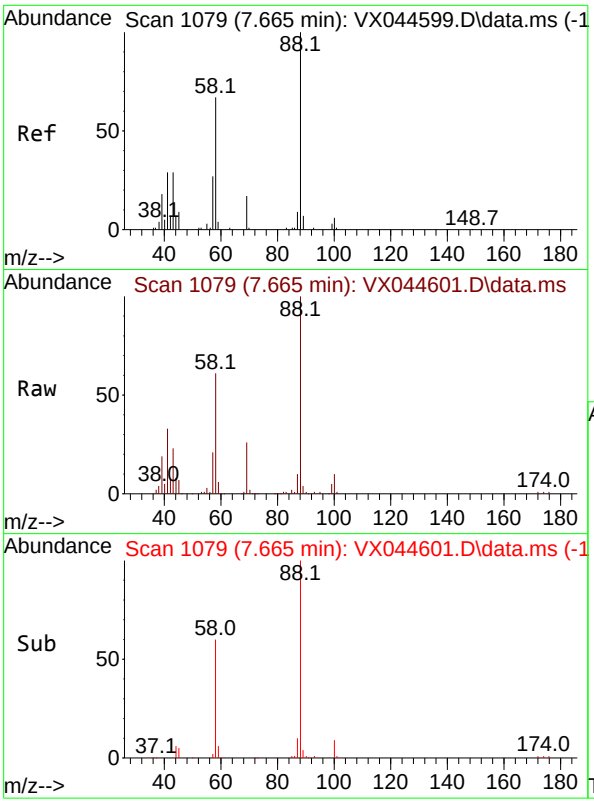


#48
Methyl methacrylate
Concen: 128.954 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 41 Resp: 296575

Ion	Ratio	Lower	Upper
41	100		
69	93.2	62.9	94.3
39	56.4	48.9	73.3



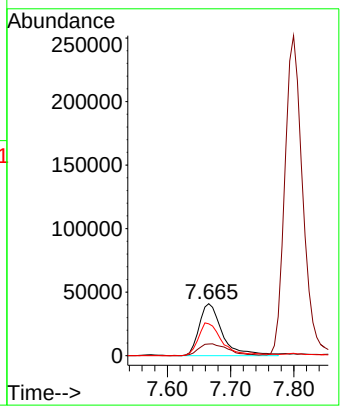


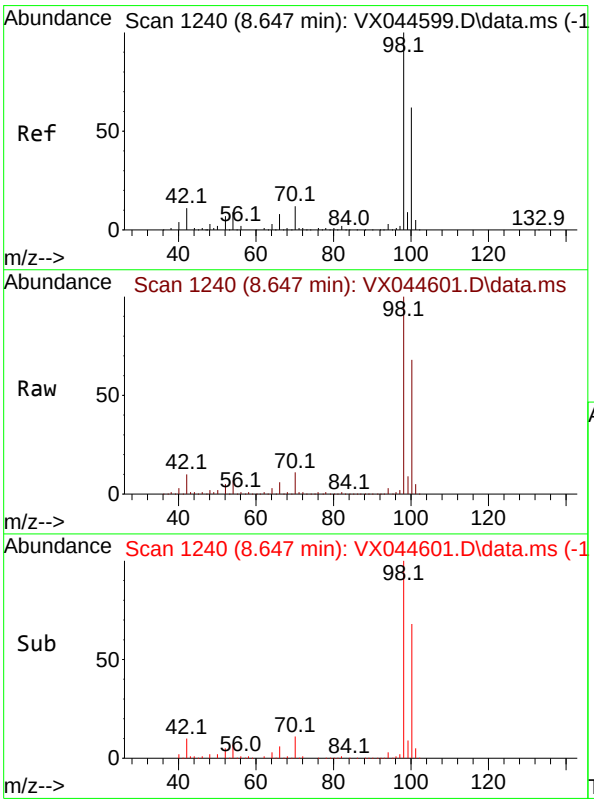
#49
1,4-Dioxane
Concen: 3106.467 ug/l
RT: 7.665 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 88 Resp: 104987

Ion	Ratio	Lower	Upper
88	100		
43	29.1	29.5	44.3#
58	64.8	56.3	84.5

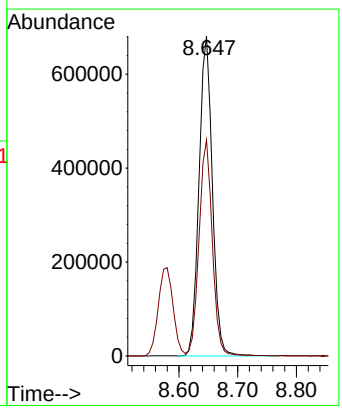


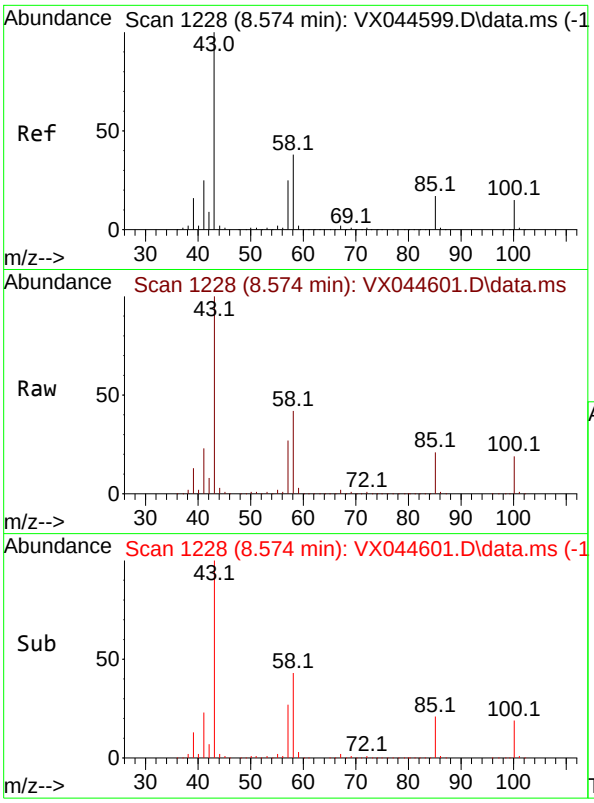


#50
Toluene-d8
Concen: 142.008 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 98 Resp: 1071800

Ion	Ratio	Lower	Upper
98	100		
100	67.0	52.5	78.7



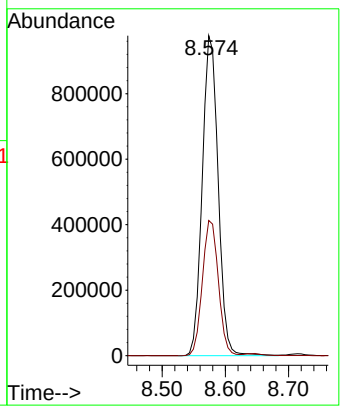


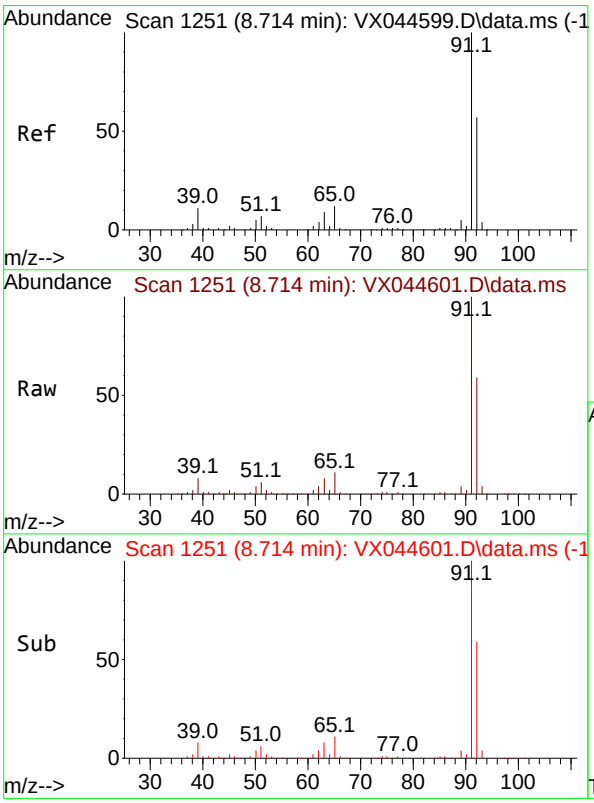
#51
4-Methyl-2-Pentanone
Concen: 607.176 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 1711444

Ion	Ratio	Lower	Upper
43	100		
58	42.5	30.0	45.0

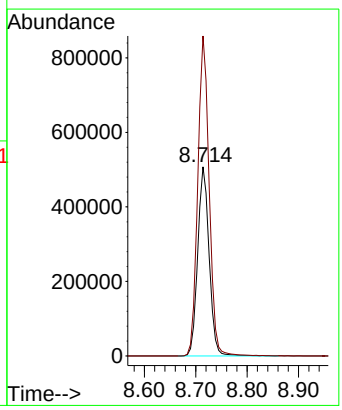


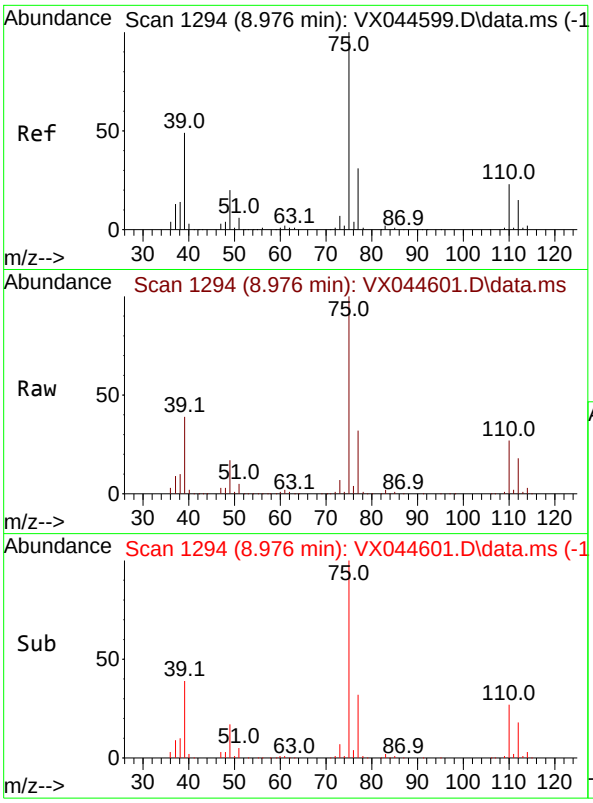


#52
Toluene
Concen: 144.441 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 92 Resp: 784020

Ion	Ratio	Lower	Upper
92	100		
91	168.7	140.6	210.8



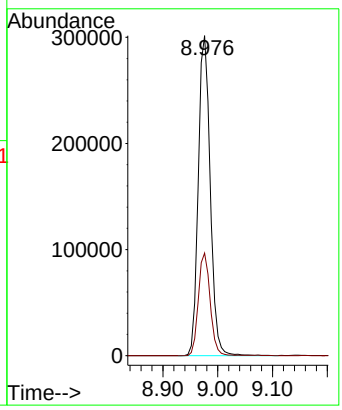


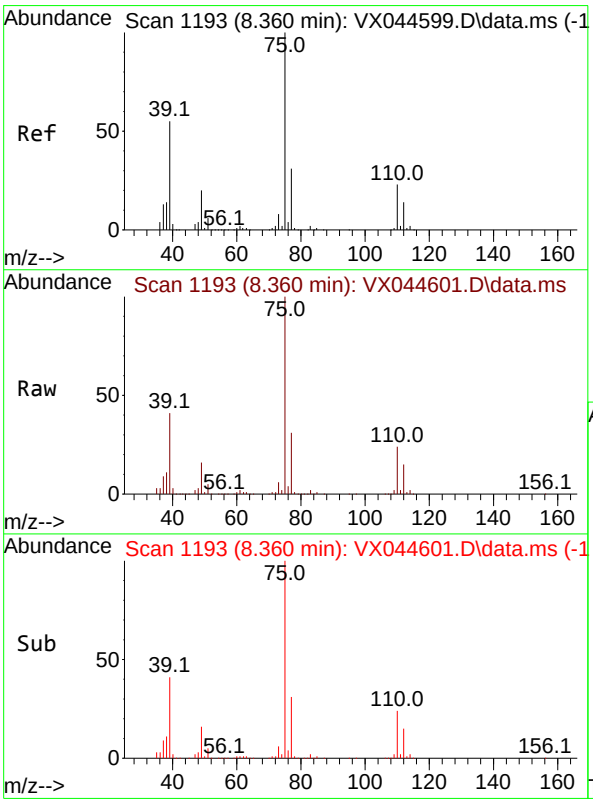
#53
t-1,3-Dichloropropene
Concen: 154.153 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 75 Resp: 457387

Ion	Ratio	Lower	Upper
75	100		
77	32.0	24.8	37.2

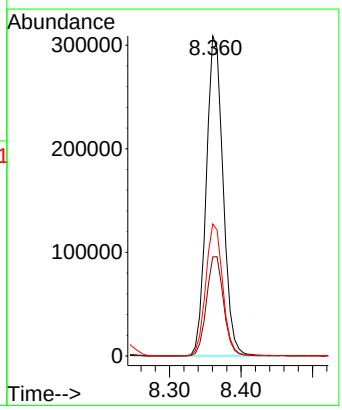


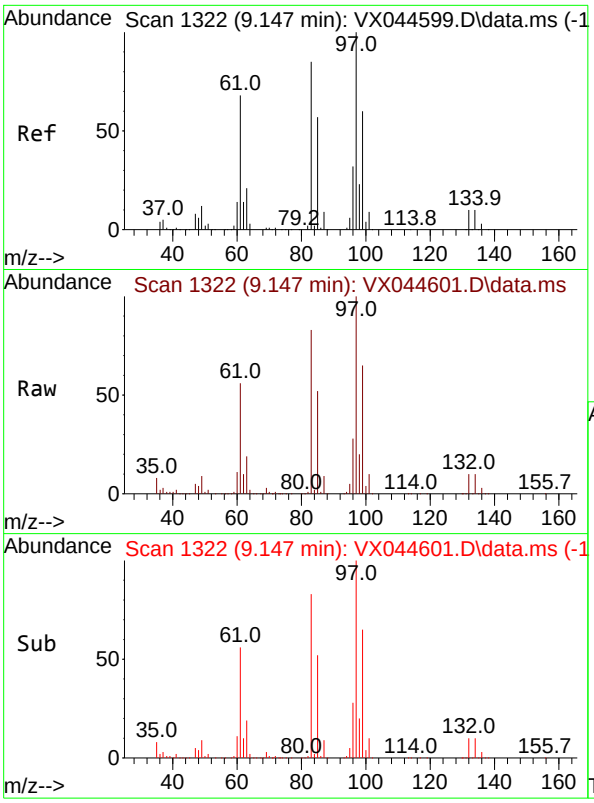


#54
cis-1,3-Dichloropropene
Concen: 151.162 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 75 Resp: 504071

Ion	Ratio	Lower	Upper
75	100		
77	30.9	24.5	36.7
39	41.2	44.3	66.5#



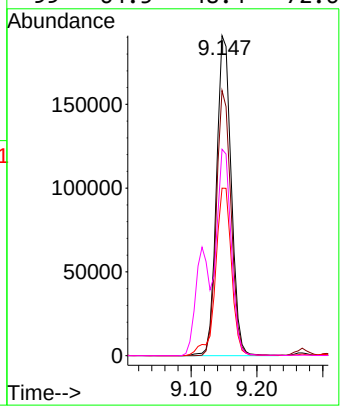


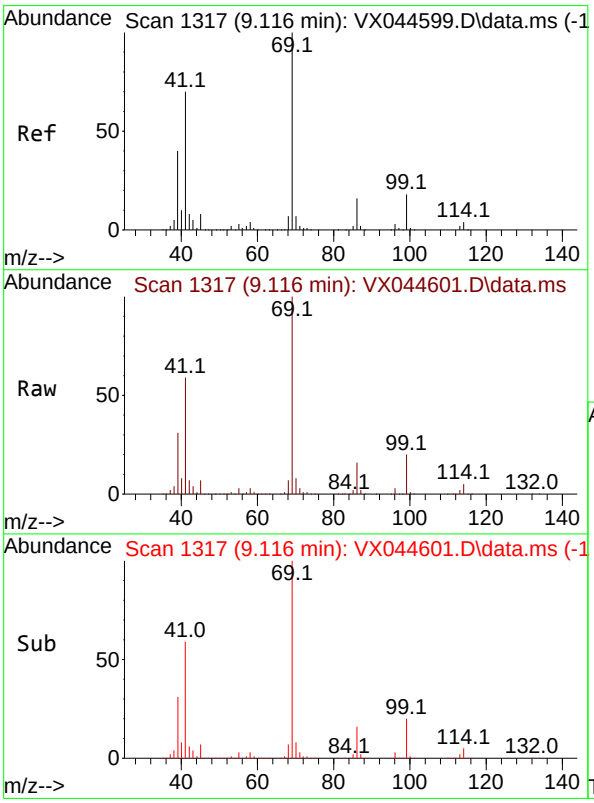
#55
1,1,2-Trichloroethane
Concen: 139.918 ug/l
RT: 9.147 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 97 Resp: 297735

Ion	Ratio	Lower	Upper
97	100		
83	82.8	68.0	102.0
85	52.3	45.4	68.0
99	64.5	48.4	72.6

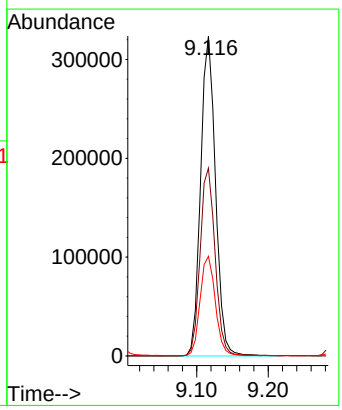


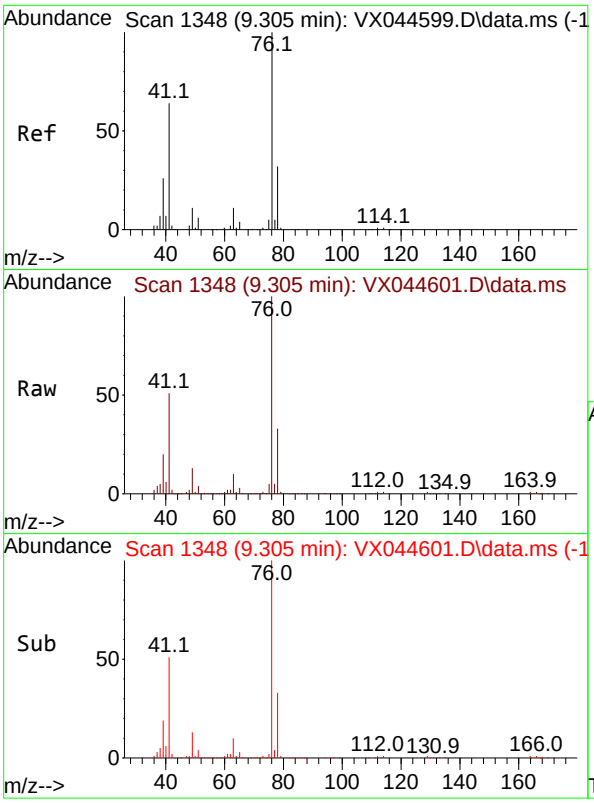


#56
Ethyl methacrylate
Concen: 151.390 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 69 Resp: 468501

Ion	Ratio	Lower	Upper
69	100		
41	59.0	57.7	86.5
39	32.0	33.7	50.5#



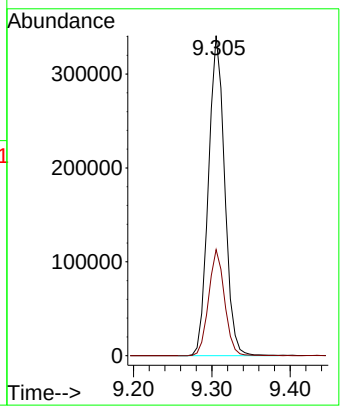


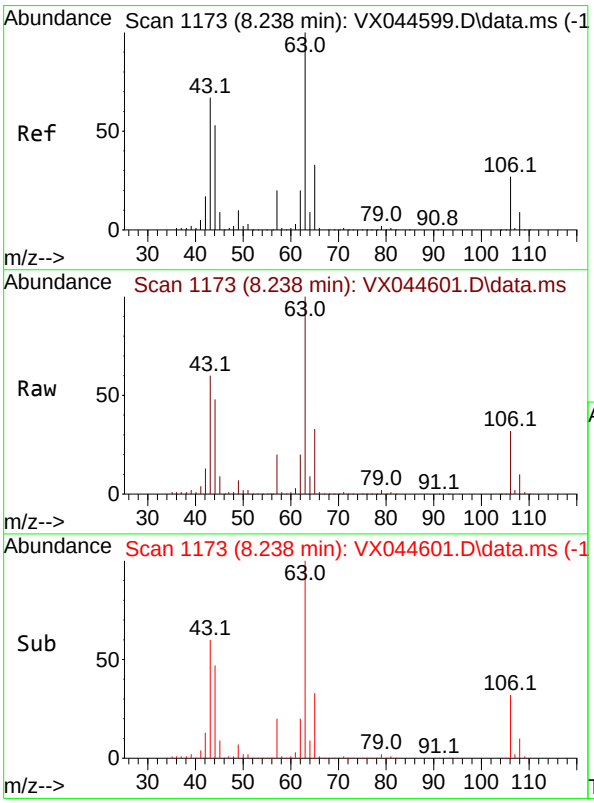
#57
1,3-Dichloropropane
Concen: 136.912 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 76 Resp: 489228

Ion	Ratio	Lower	Upper
76	100		
78	32.5	25.8	38.8

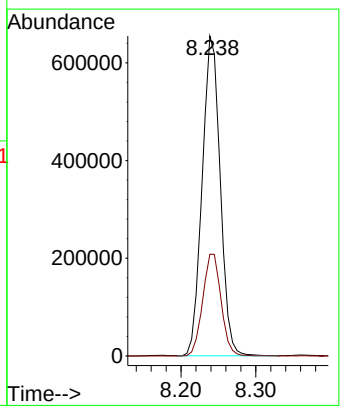


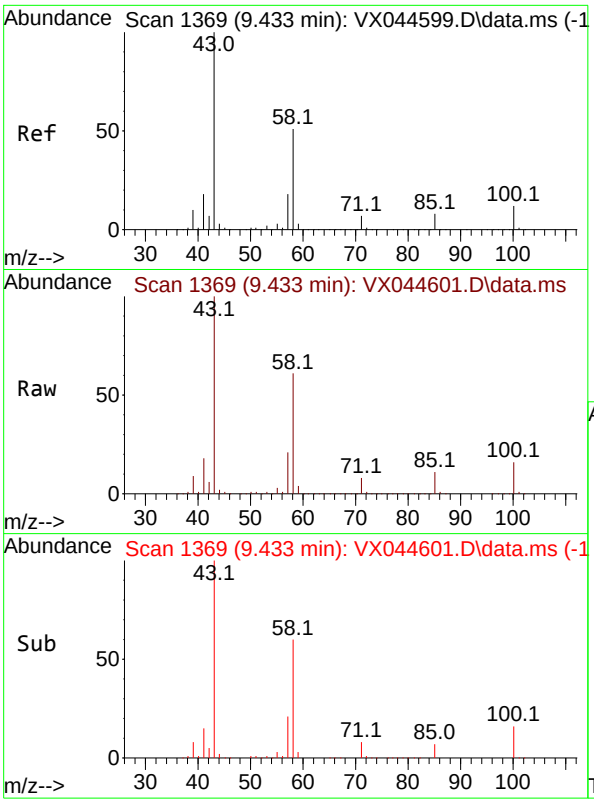


#58
2-Chloroethyl Vinyl ether
Concen: 715.006 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 63 Resp: 1096941

Ion	Ratio	Lower	Upper
63	100		
106	32.5	22.4	33.6



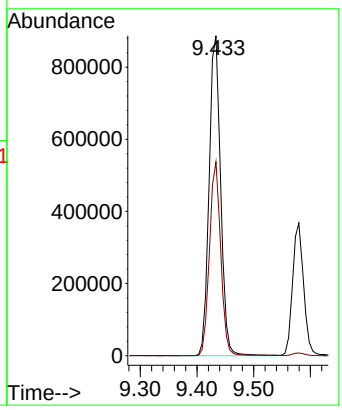


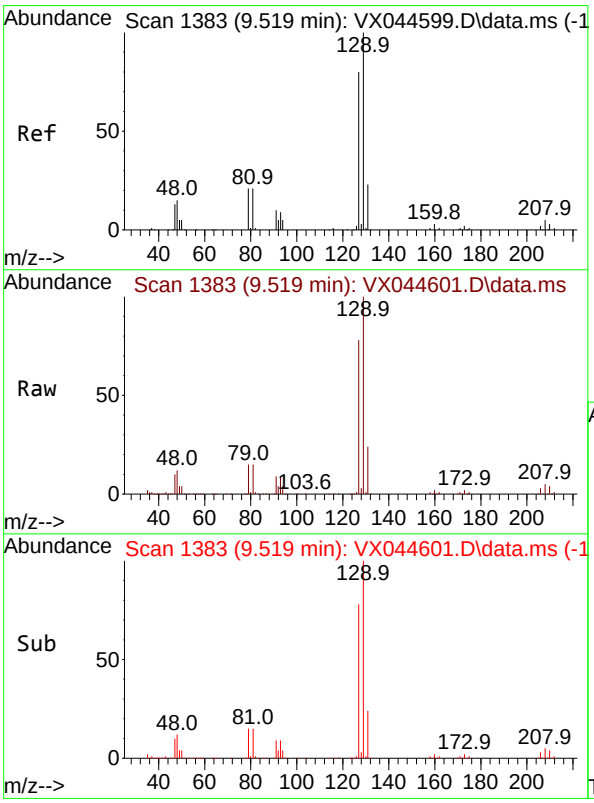
#59
2-Hexanone
Concen: 628.603 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 1253079

Ion	Ratio	Lower	Upper
43	100		
58	59.3	25.4	76.4

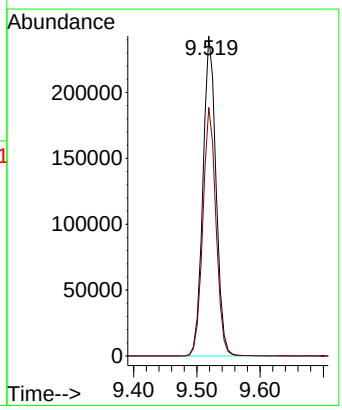


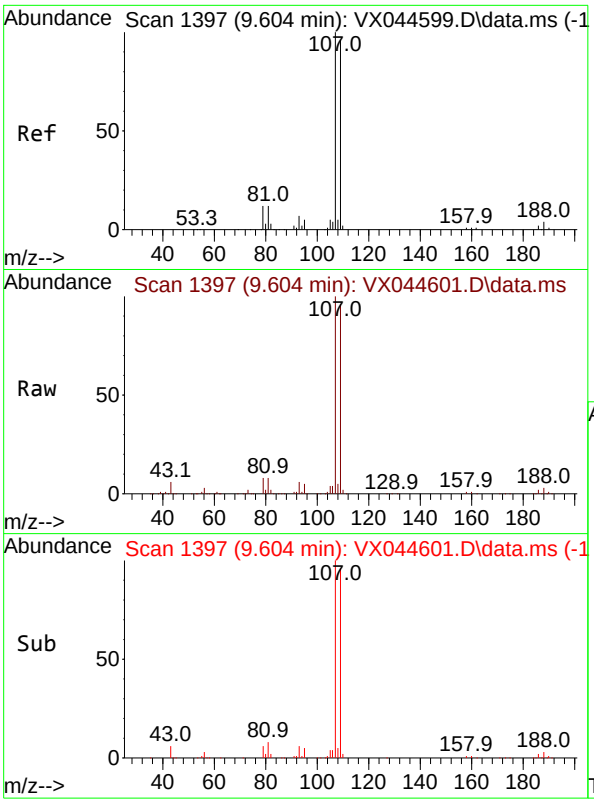


#60
Dibromochloromethane
Concen: 164.735 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion:129 Resp: 349531

Ion	Ratio	Lower	Upper
129	100		
127	77.8	38.9	116.7



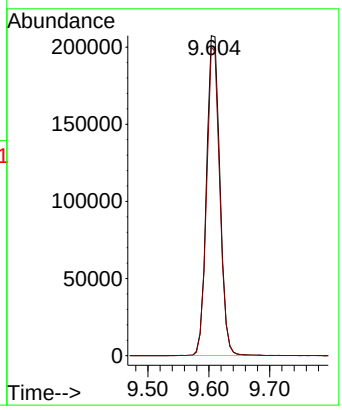


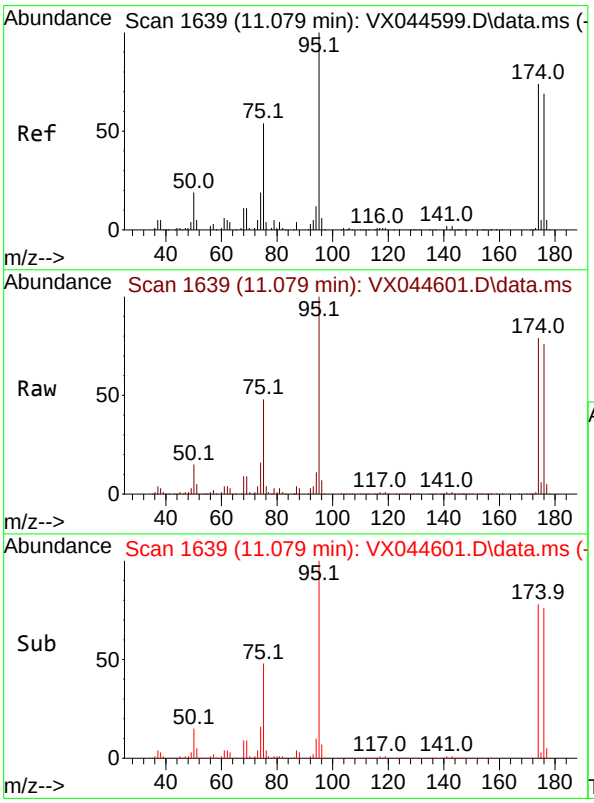
#61
1,2-Dibromoethane
Concen: 147.210 ug/l
RT: 9.604 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:107 Resp: 316369

Ion	Ratio	Lower	Upper
107	100		
109	95.0	76.7	115.1

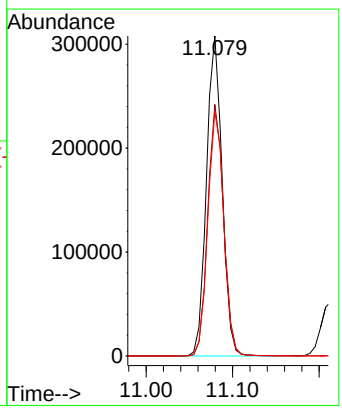


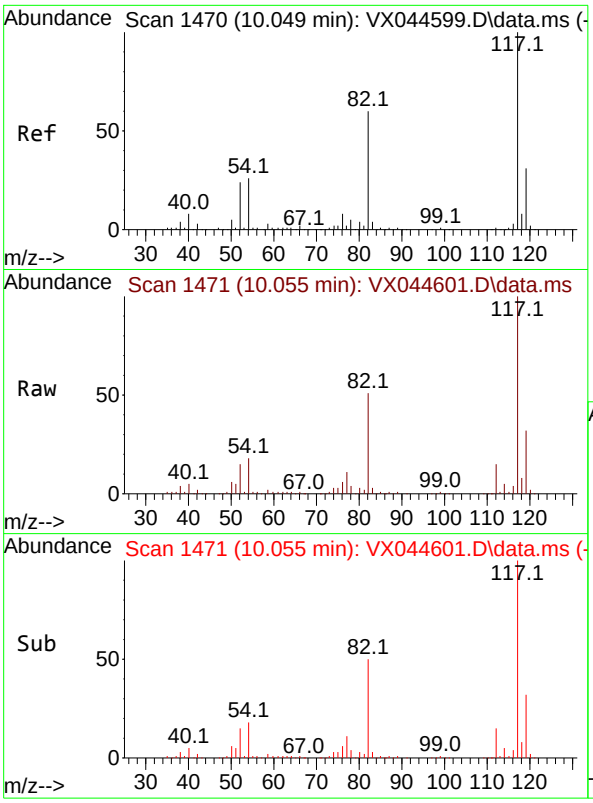


#62
4-Bromofluorobenzene
Concen: 145.246 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 95 Resp: 386929

Ion	Ratio	Lower	Upper
95	100		
174	79.6	0.0	148.8
176	77.6	0.0	139.8



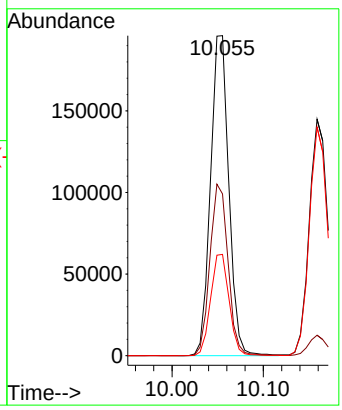


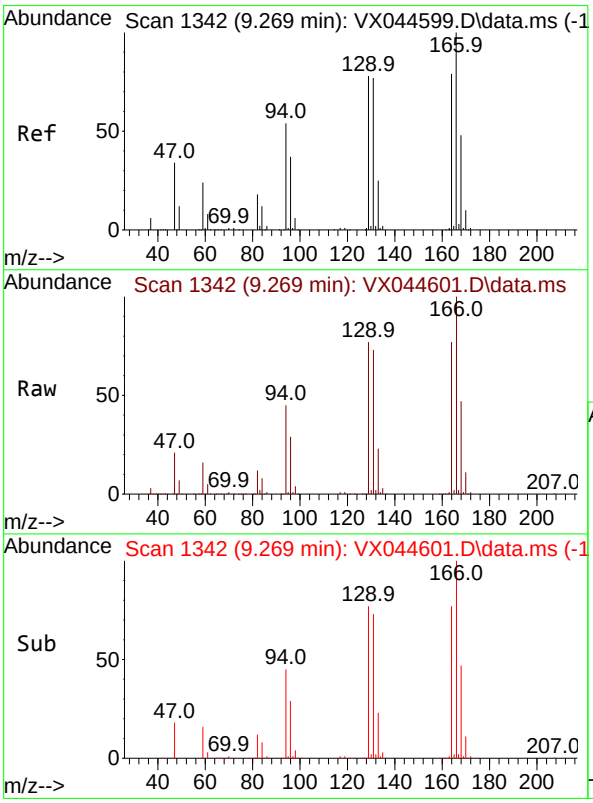
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:117 Resp: 272245

Ion	Ratio	Lower	Upper
117	100		
82	50.5	47.8	71.6
119	31.6	25.0	37.6

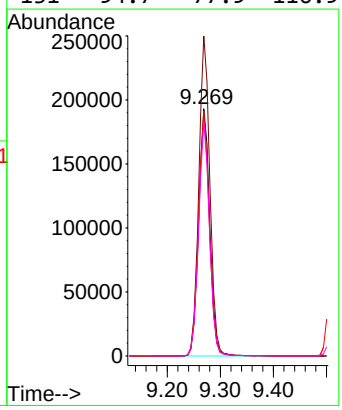


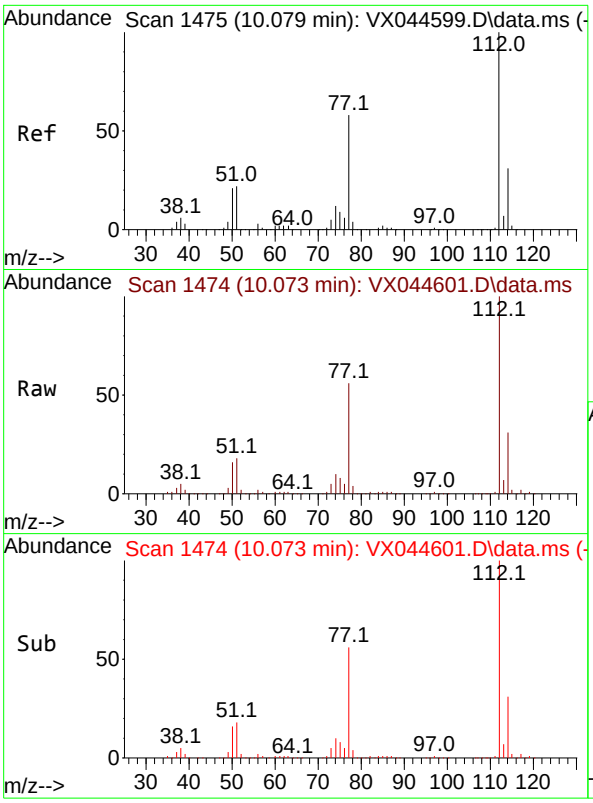


#64
Tetrachloroethene
Concen: 146.458 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion:164 Resp: 281910

Ion	Ratio	Lower	Upper
164	100		
166	129.4	101.5	152.3
129	99.1	78.9	118.3
131	94.7	77.9	116.9



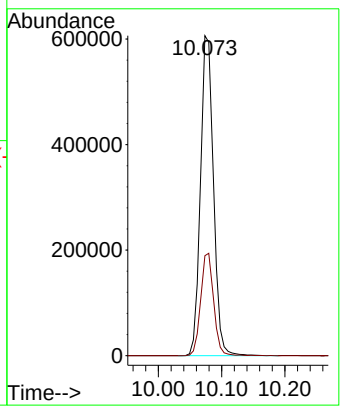


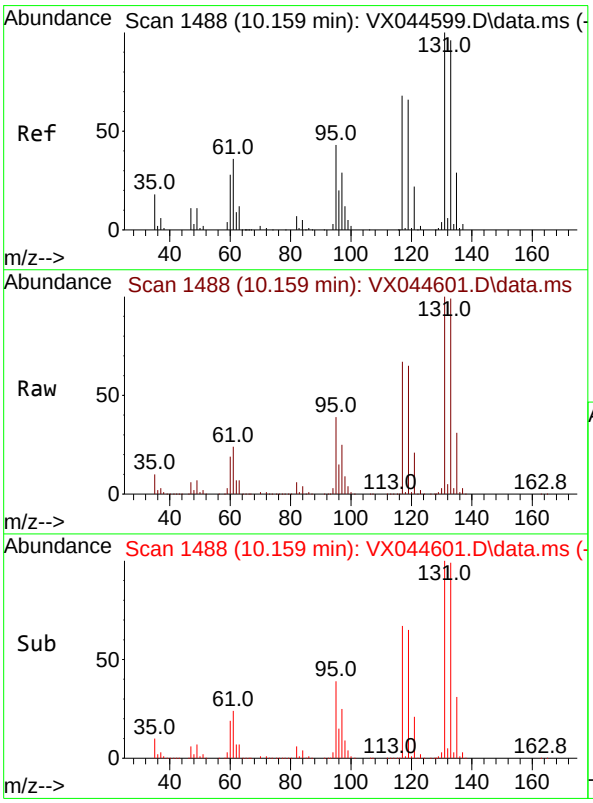
#65
Chlorobenzene
Concen: 150.505 ug/l
RT: 10.073 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:112 Resp: 869620

Ion	Ratio	Lower	Upper
112	100		
114	31.2	25.0	37.4

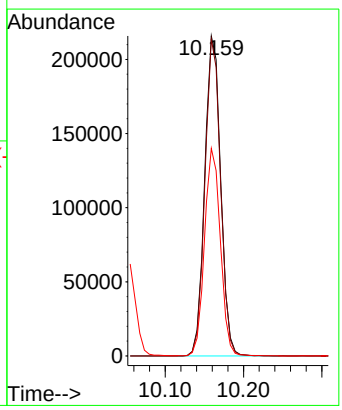


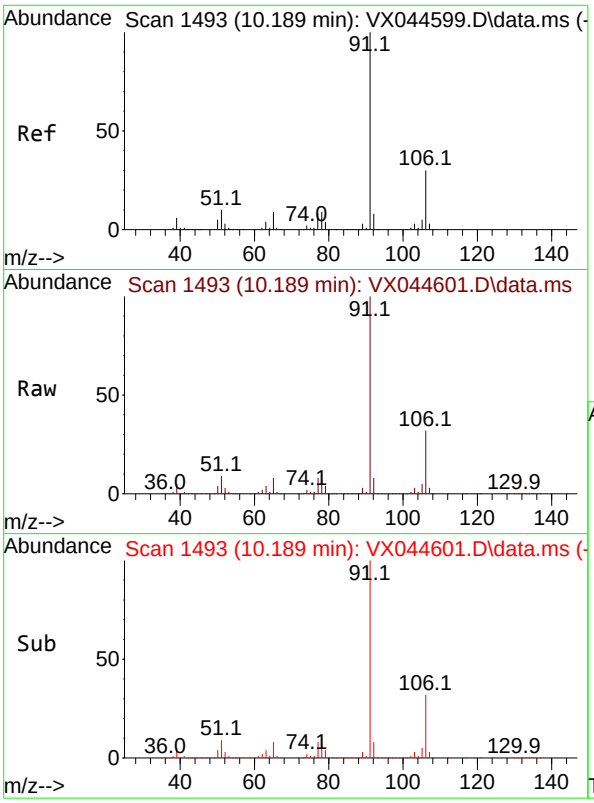


#66
1,1,1,2-Tetrachloroethane
Concen: 158.550 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion:131 Resp: 304267

Ion	Ratio	Lower	Upper
131	100		
133	97.0	48.0	144.0
119	64.6	32.8	98.4



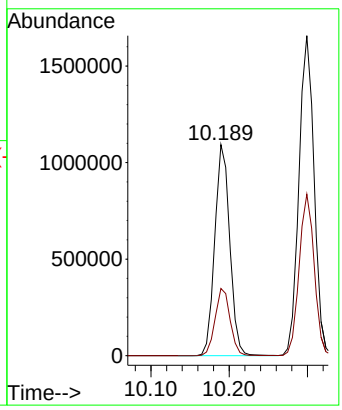


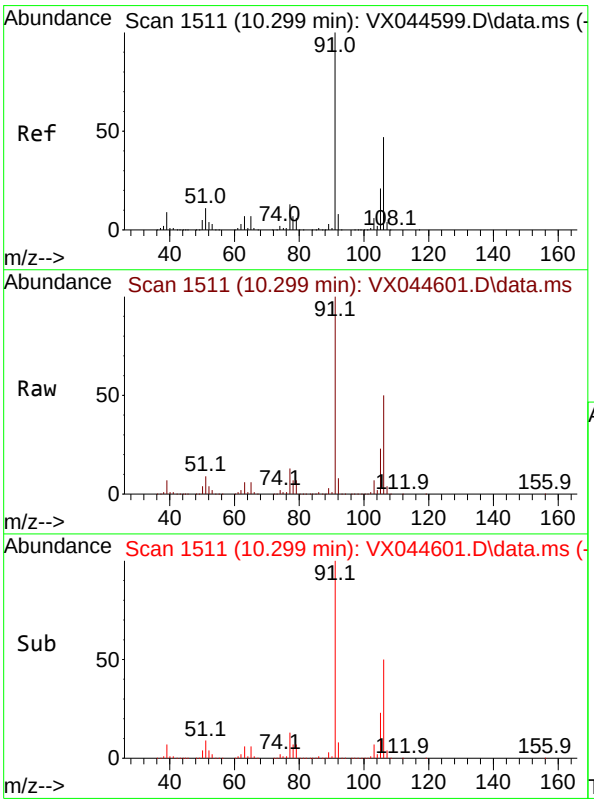
#67
Ethyl Benzene
Concen: 146.761 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 91 Resp: 1456186

Ion	Ratio	Lower	Upper
91	100		
106	31.8	23.8	35.8

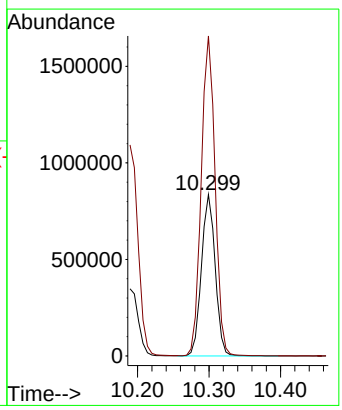


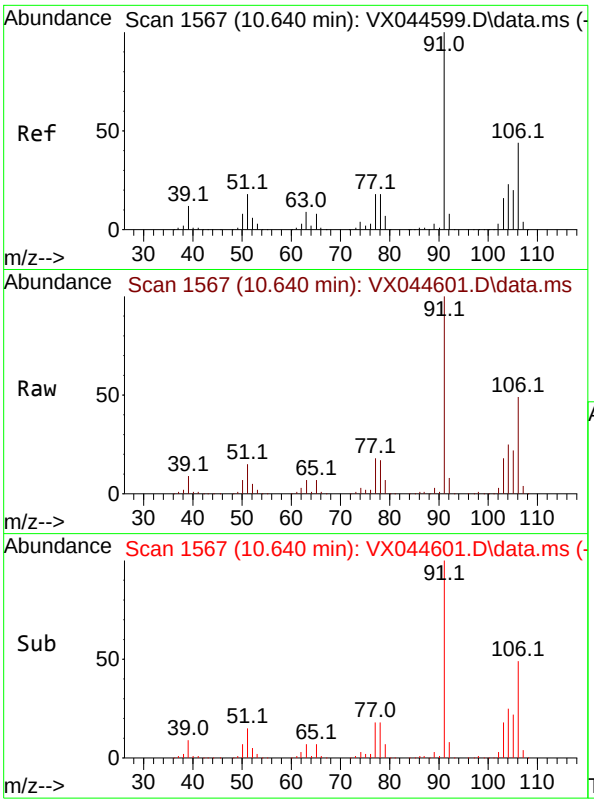


#68
m/p-Xylenes
Concen: 306.320 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion:106 Resp: 1116860

Ion	Ratio	Lower	Upper
106	100		
91	200.0	170.4	255.6



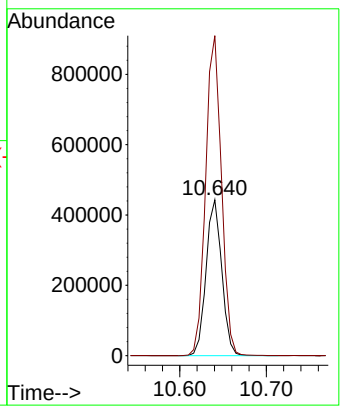


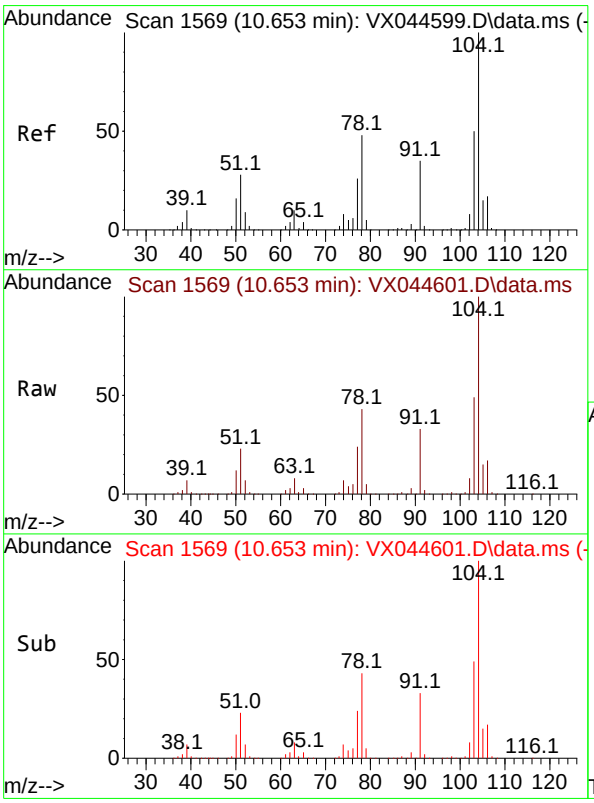
#69
o-Xylene
Concen: 151.545 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:106 Resp: 557711

Ion	Ratio	Lower	Upper
106	100		
91	207.2	112.3	336.8

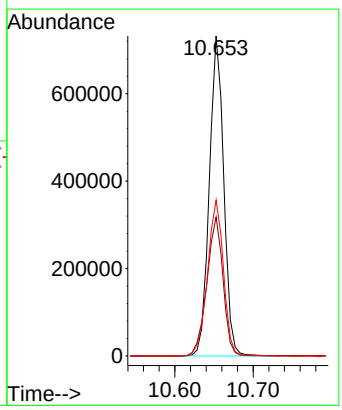


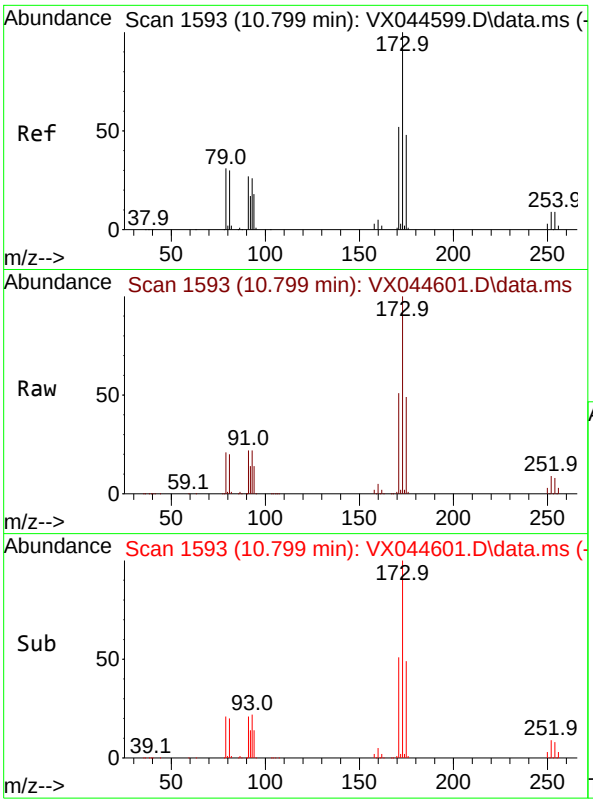


#70
Styrene
Concen: 158.937 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion:104 Resp: 935547

Ion	Ratio	Lower	Upper
104	100		
78	48.5	44.0	66.0
103	53.9	43.8	65.6



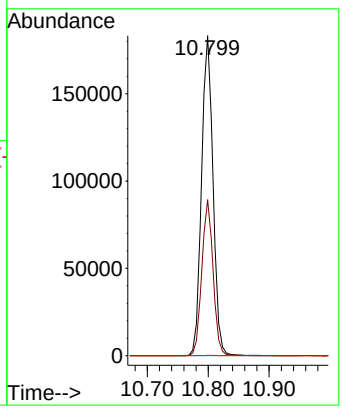


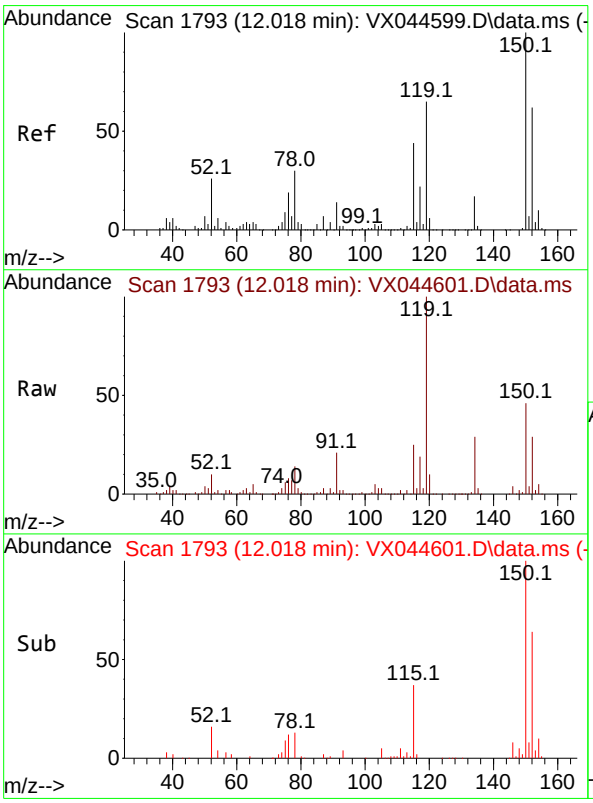
#71
Bromoform
Concen: 149.977 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:173 Resp: 239442

Ion	Ratio	Lower	Upper
173	100		
175	47.9	24.6	73.8
254	0.1	0.0	0.0#

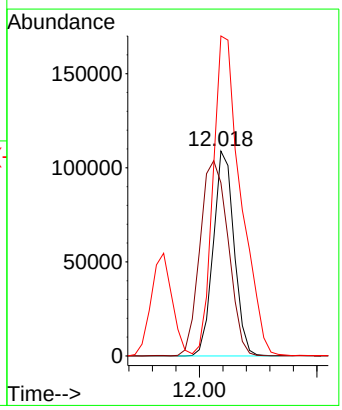


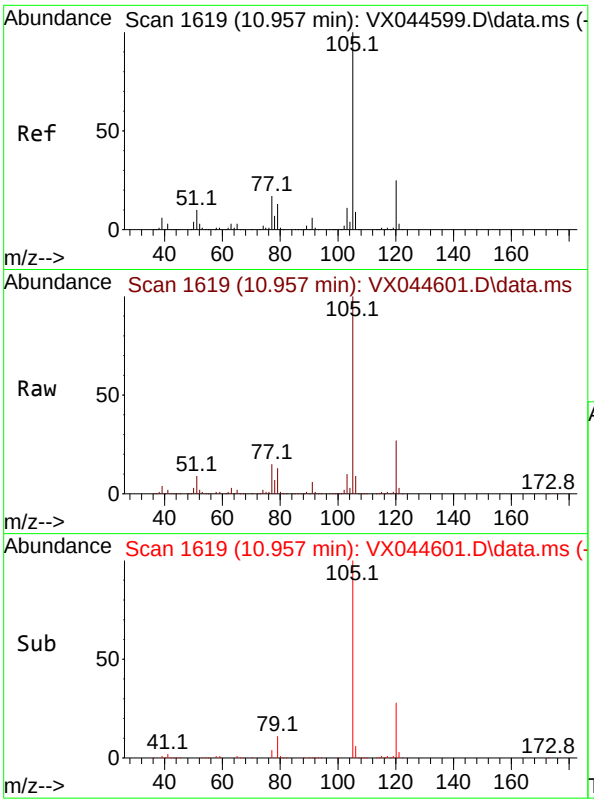


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion:152 Resp: 134118

Ion	Ratio	Lower	Upper
152	100		
115	129.1	44.4	133.1
150	208.3	0.0	355.0



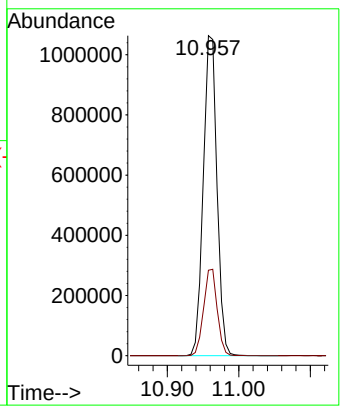


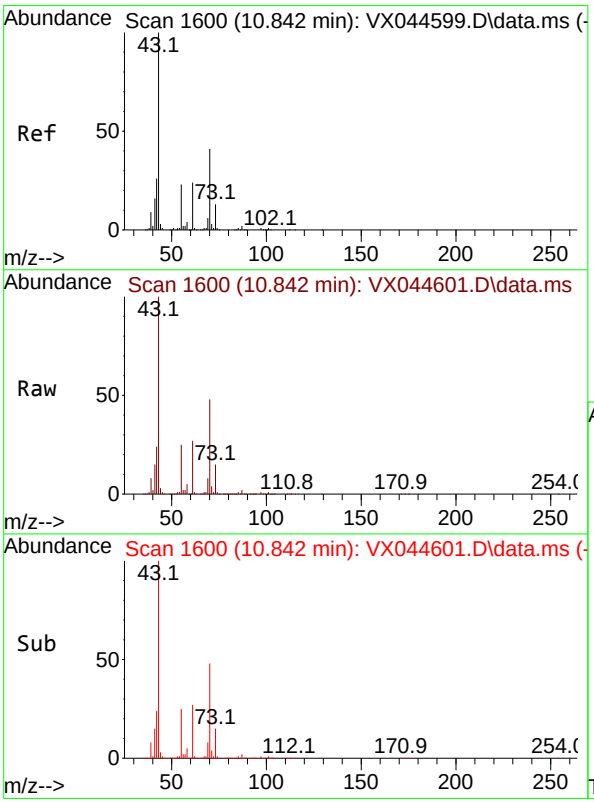
#73
Isopropylbenzene
Concen: 142.367 ug/l
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:105 Resp: 1414616

Ion	Ratio	Lower	Upper
105	100		
120	26.8	13.0	38.9

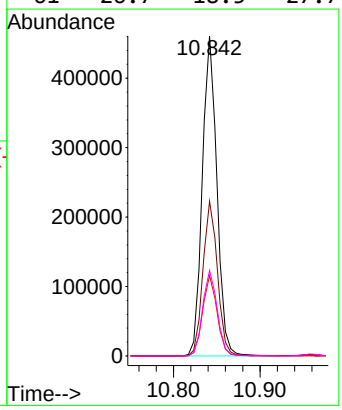


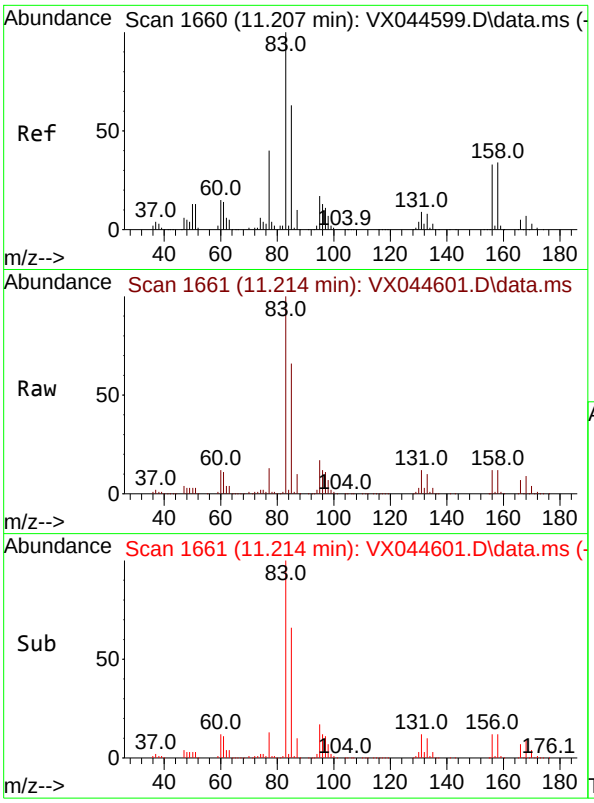


#74
N-amyl acetate
Concen: 133.652 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 43 Resp: 538859

Ion	Ratio	Lower	Upper
43	100		
70	48.3	32.9	49.3
55	25.0	19.0	28.6
61	26.7	18.5	27.7



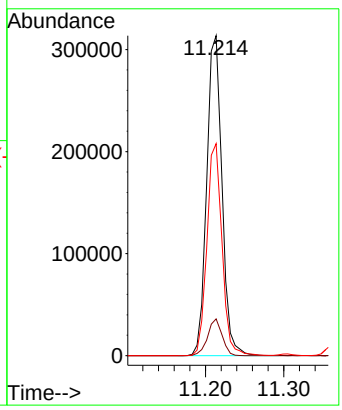


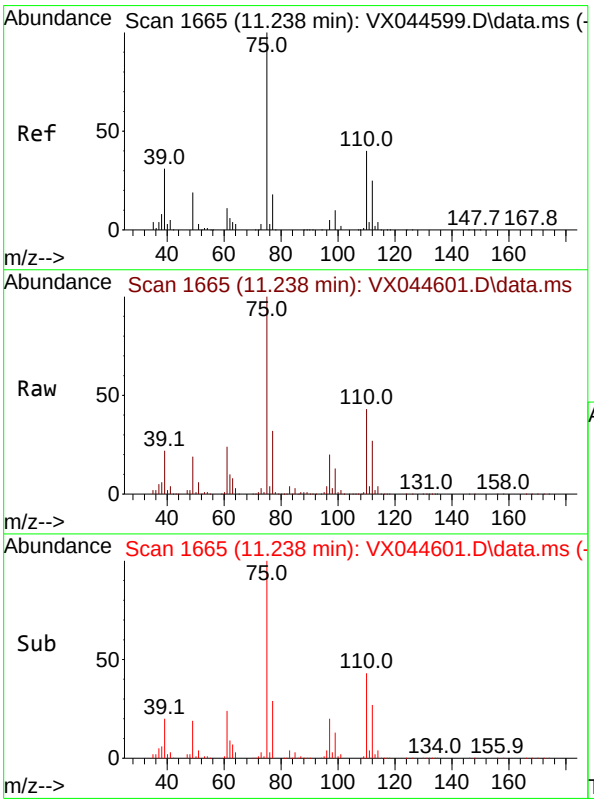
#75
1,1,2,2-Tetrachloroethane
Concen: 132.076 ug/l
RT: 11.214 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 83 Resp: 423014

Ion	Ratio	Lower	Upper
83	100		
131	11.0	5.0	15.0
85	65.6	31.9	95.5

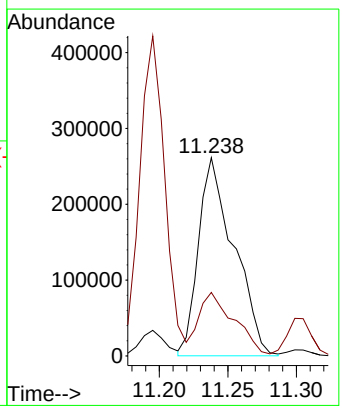


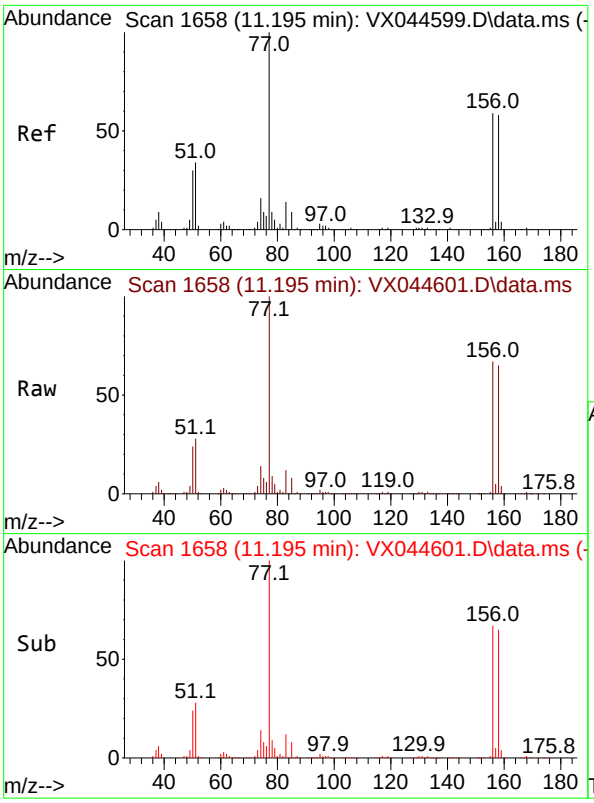


#76
1,2,3-Trichloropropane
Concen: 175.182 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 75 Resp: 470982

Ion	Ratio	Lower	Upper
75	100		
77	32.2	21.1	63.1



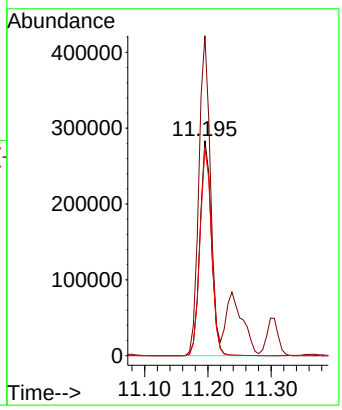


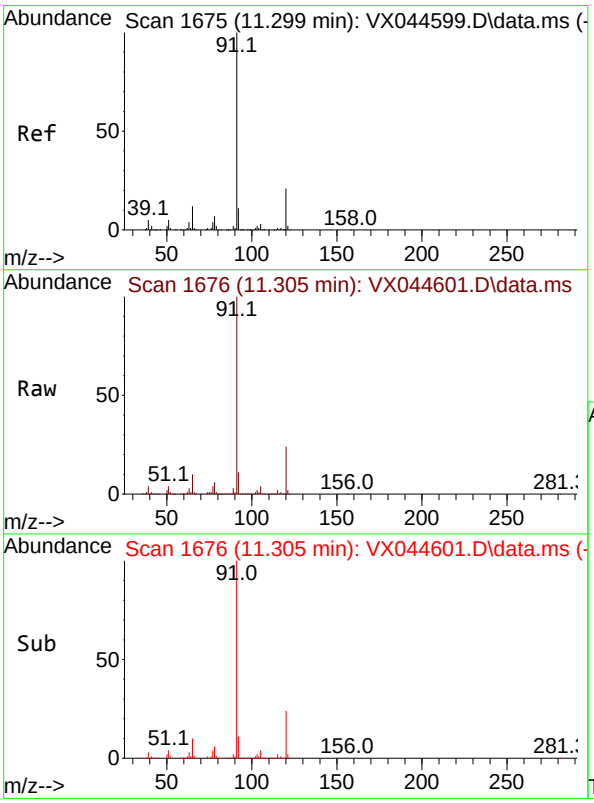
#77
Bromobenzene
Concen: 149.574 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:156 Resp: 361039

Ion	Ratio	Lower	Upper
156	100		
77	149.5	85.7	257.1
158	96.8	49.9	149.6

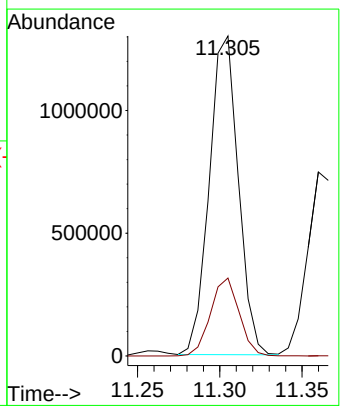


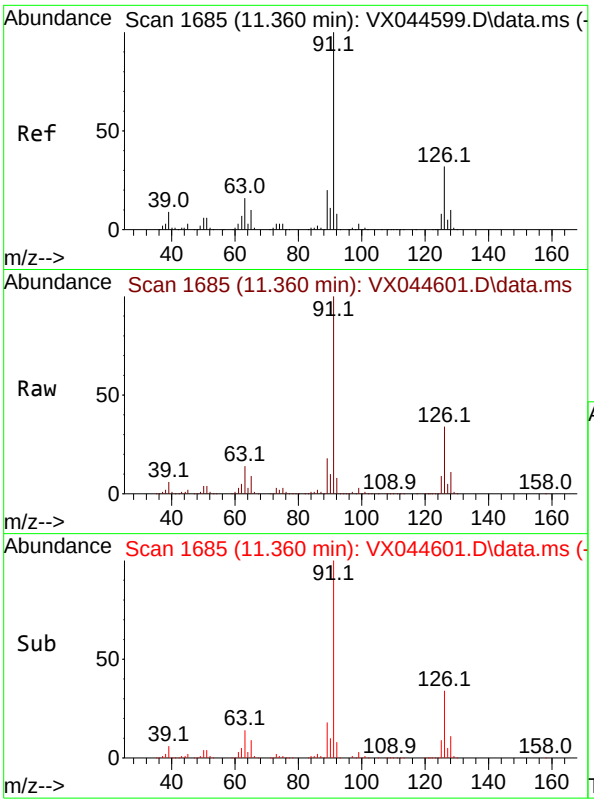


#78
n-propylbenzene
Concen: 142.620 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.006 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 91 Resp: 1596196

Ion	Ratio	Lower	Upper
91	100		
120	24.1	11.2	33.5



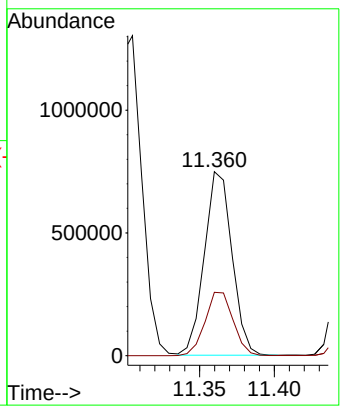


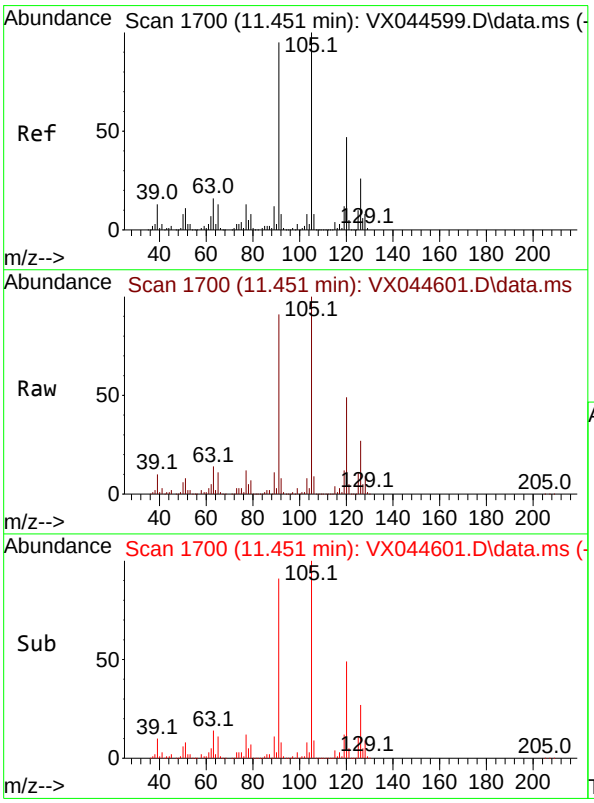
#79
2-Chlorotoluene
Concen: 132.631 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 91 Resp: 961904

Ion	Ratio	Lower	Upper
91	100		
126	35.2	16.4	49.2

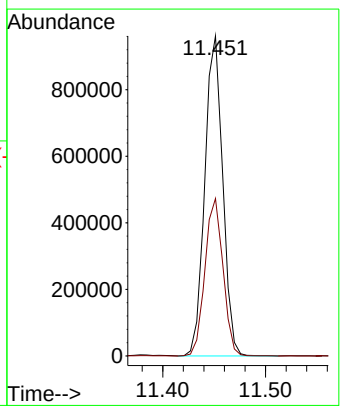


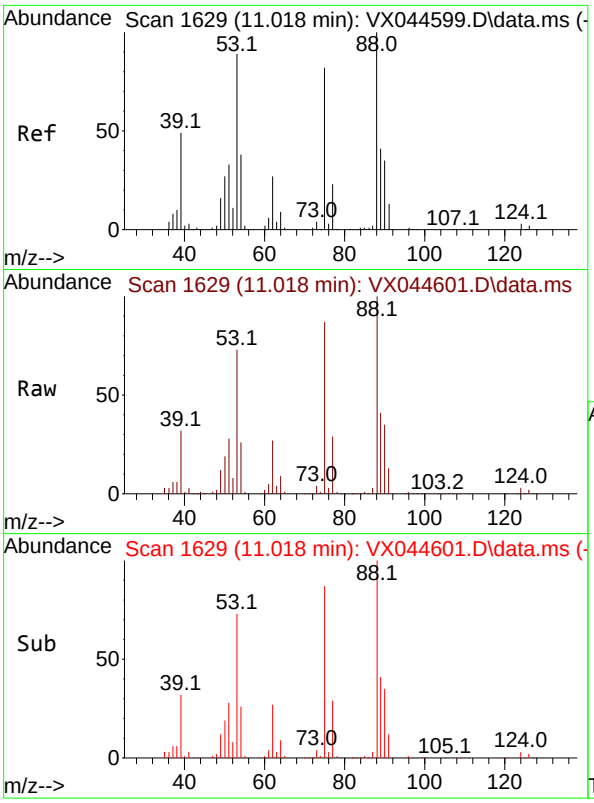


#80
1,3,5-Trimethylbenzene
Concen: 141.208 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion:105 Resp: 1163357

Ion	Ratio	Lower	Upper
105	100		
120	49.5	23.5	70.5



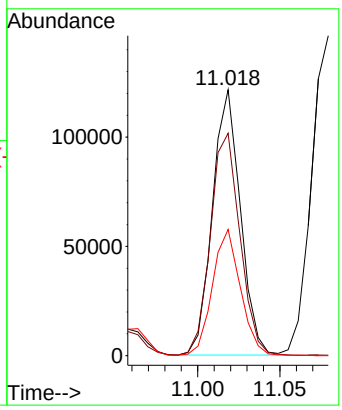


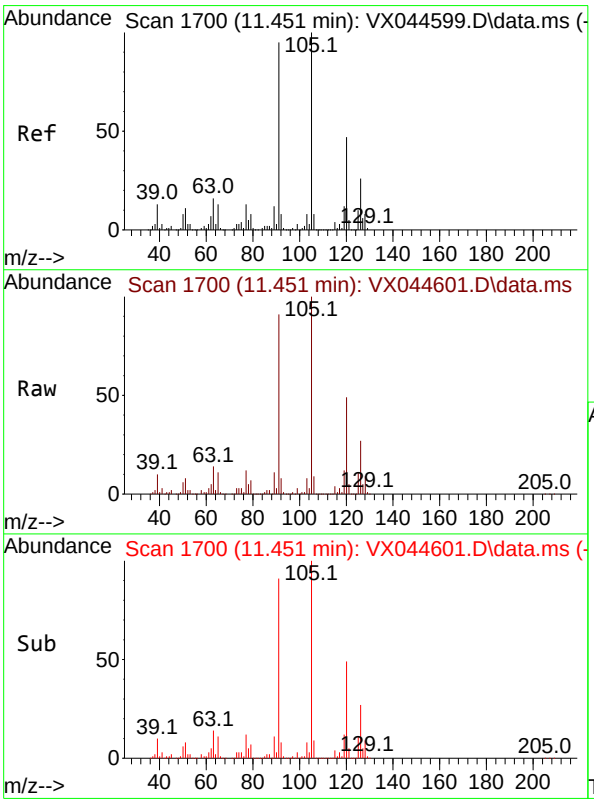
#81
trans-1,4-Dichloro-2-butene
Concen: 162.448 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 75 Resp: 143479

Ion	Ratio	Lower	Upper
75	100		
53	88.2	92.7	139.1#
89	47.9	38.3	57.5

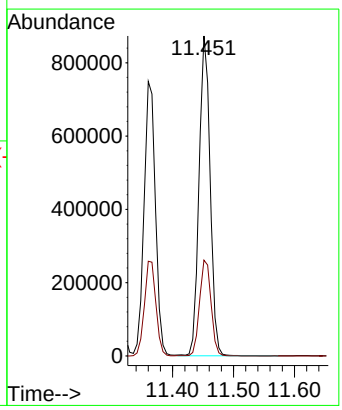


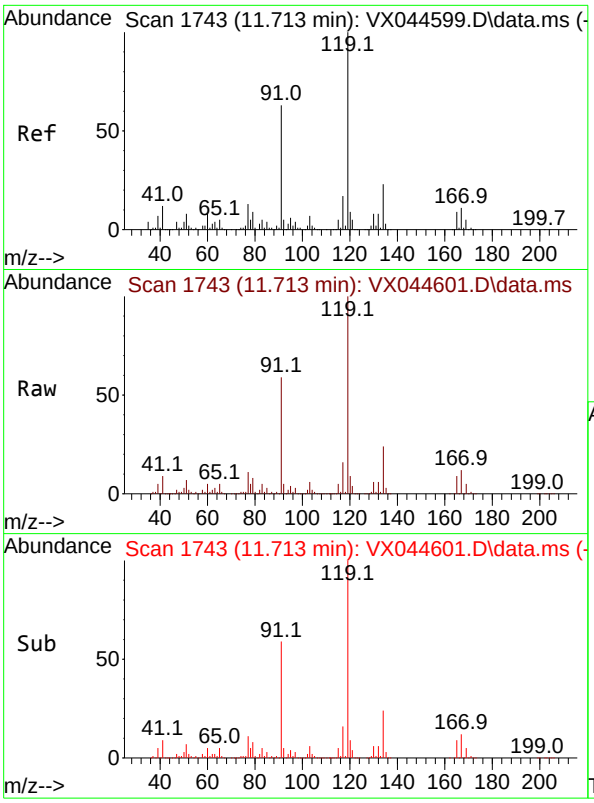


#82
4-Chlorotoluene
Concen: 135.314 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 91 Resp: 1104003

Ion	Ratio	Lower	Upper
91	100		
126	31.0	14.0	42.0



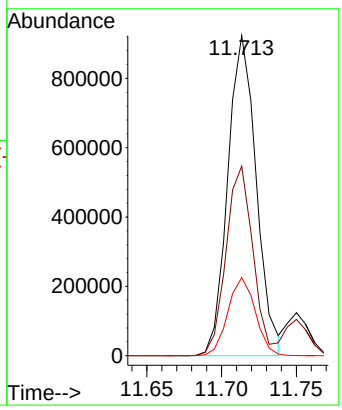


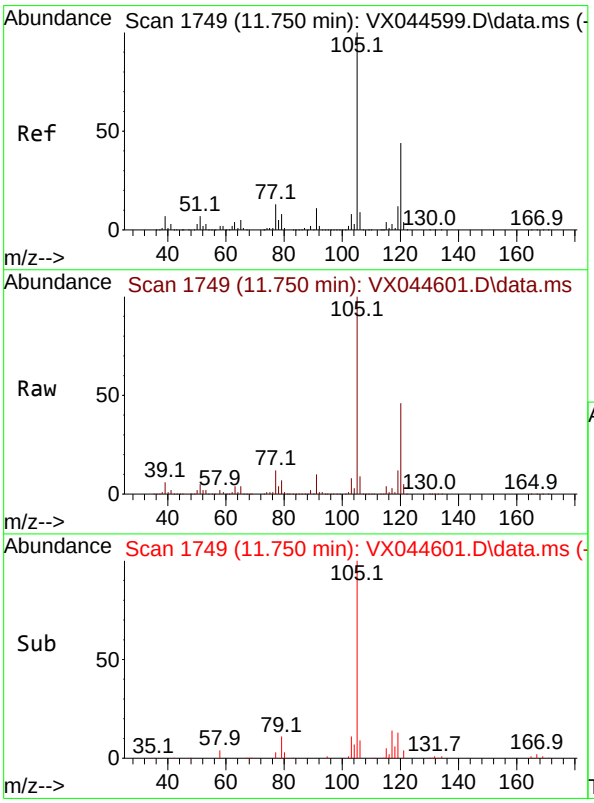
#83
tert-Butylbenzene
Concen: 149.273 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:119 Resp: 1224555

Ion	Ratio	Lower	Upper
119	100		
91	56.5	30.9	92.8
134	23.5	11.7	35.0

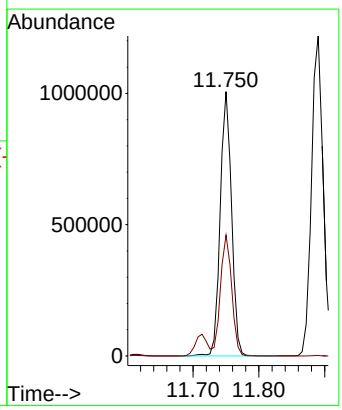


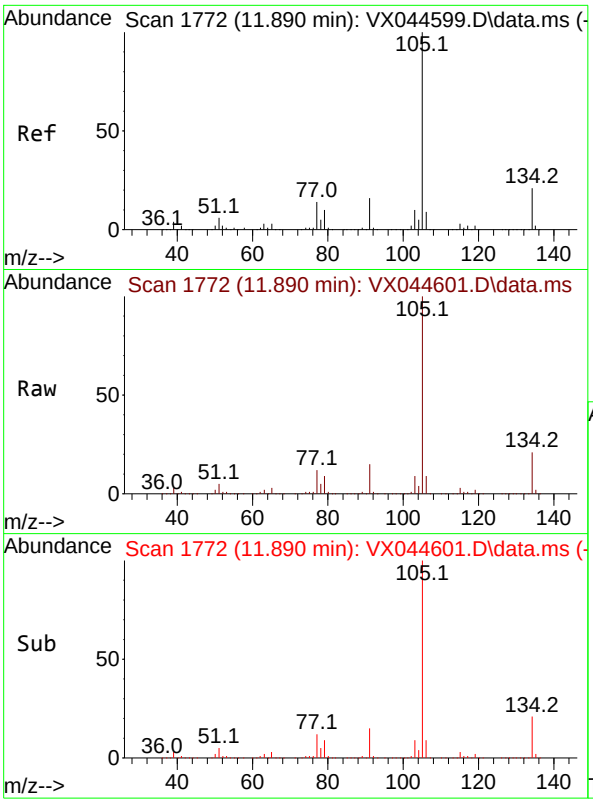


#84
1,2,4-Trimethylbenzene
Concen: 145.607 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion:105 Resp: 1205026

Ion	Ratio	Lower	Upper
105	100		
120	45.5	21.9	65.7



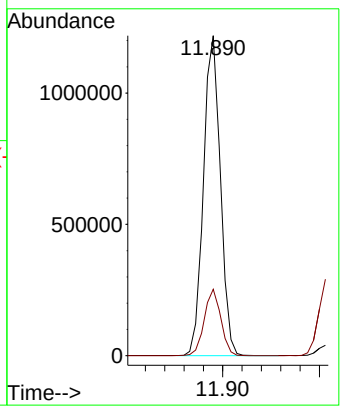


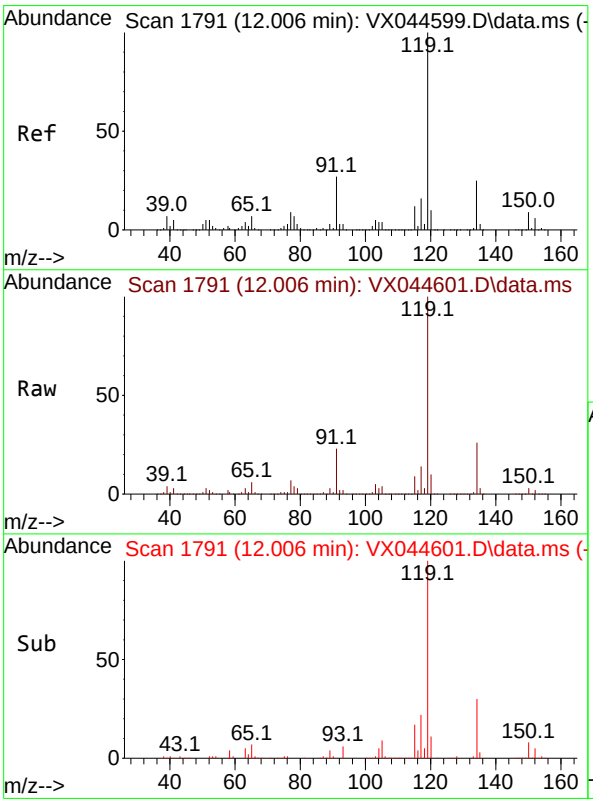
#85
sec-Butylbenzene
Concen: 148.531 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:105 Resp: 1483948

Ion	Ratio	Lower	Upper
105	100		
134	20.3	9.9	29.7

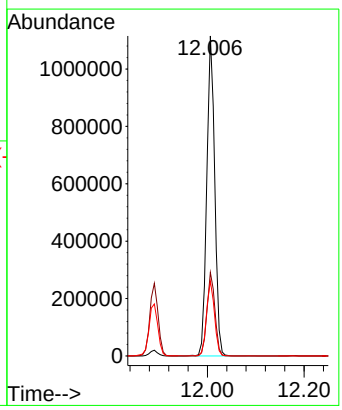


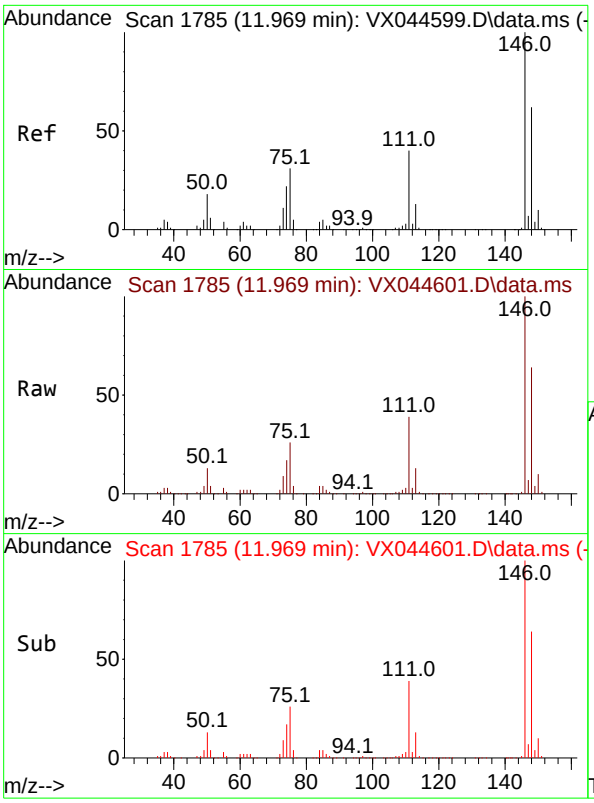


#86
p-Isopropyltoluene
Concen: 152.392 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion:119 Resp: 1277498

Ion	Ratio	Lower	Upper
119	100		
134	26.1	12.6	37.8
91	23.4	13.1	39.1



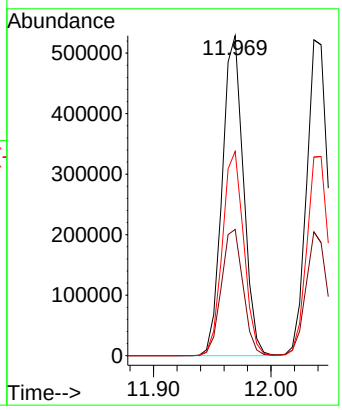


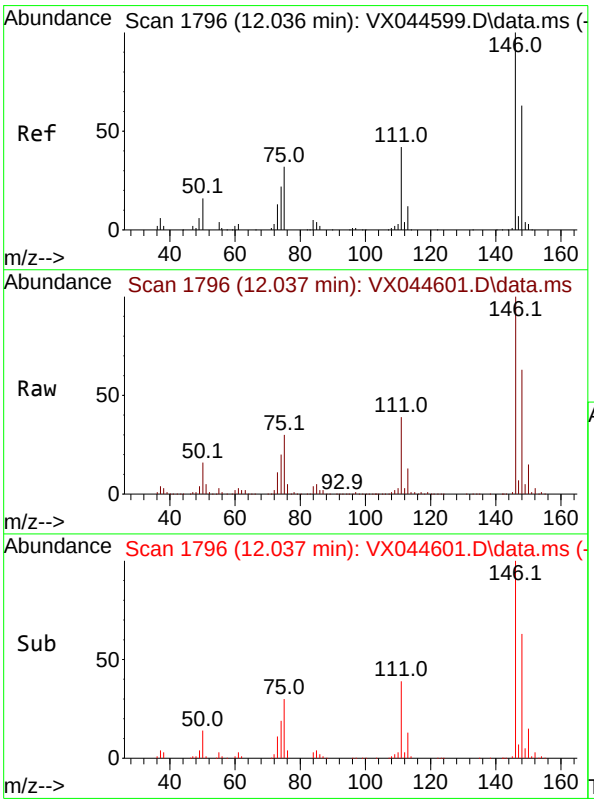
#87
1,3-Dichlorobenzene
Concen: 152.281 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:146 Resp: 664944

Ion	Ratio	Lower	Upper
146	100		
111	40.4	21.0	63.0
148	64.3	31.6	95.0

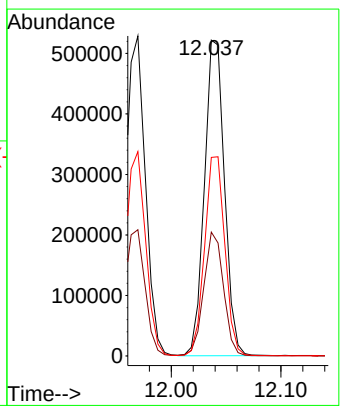


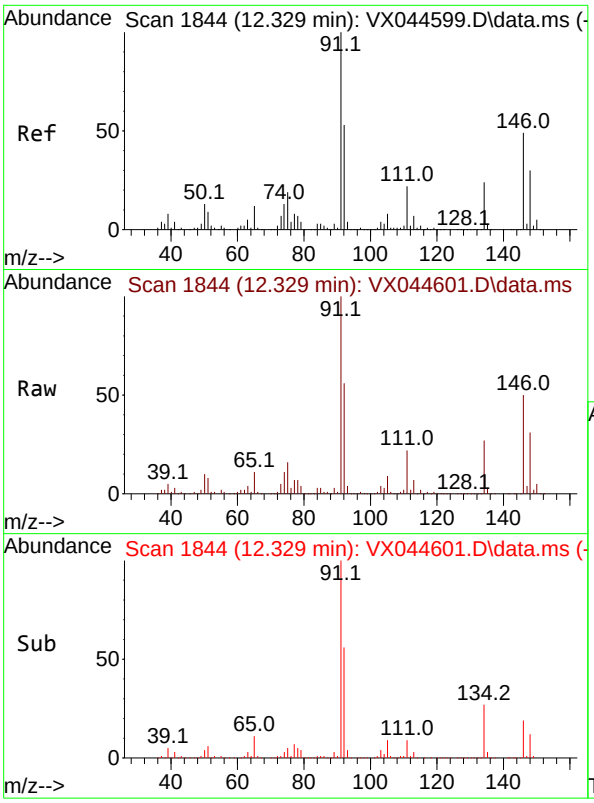


#88
1,4-Dichlorobenzene
Concen: 145.590 ug/l
RT: 12.037 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion:146 Resp: 662357

Ion	Ratio	Lower	Upper
146	100		
111	38.5	20.7	62.1
148	64.1	31.8	95.4



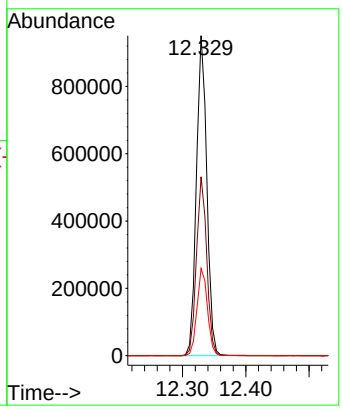


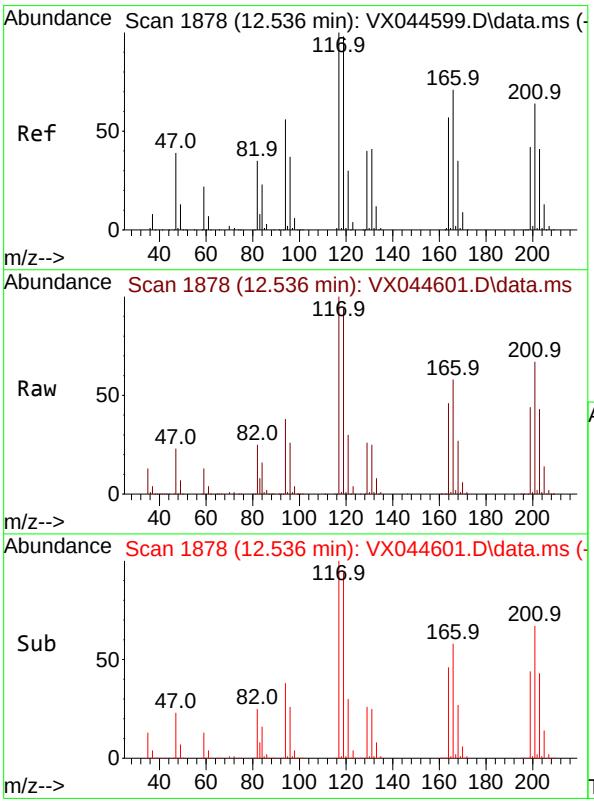
#89
n-Butylbenzene
Concen: 154.101 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 91 Resp: 1090816

Ion	Ratio	Lower	Upper
91	100		
92	55.4	26.5	79.4
134	27.4	12.4	37.2

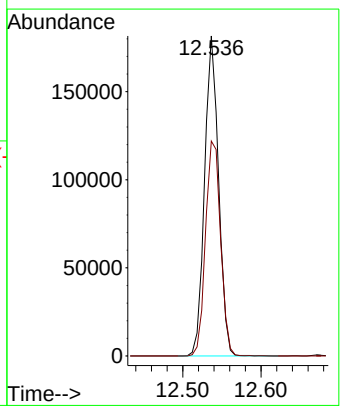


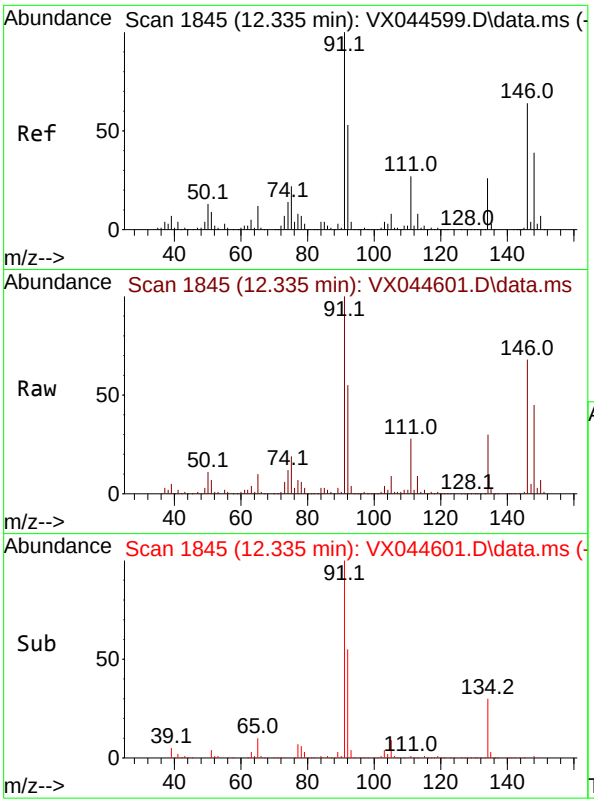


#90
Hexachloroethane
Concen: 167.017 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion:117 Resp: 224919

Ion	Ratio	Lower	Upper
117	100		
201	72.1	33.6	100.6



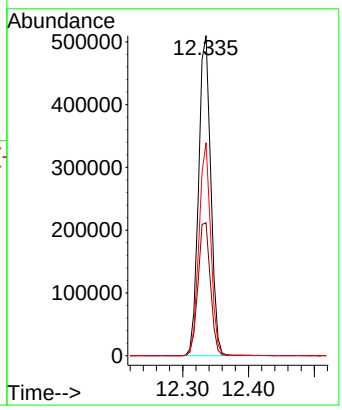


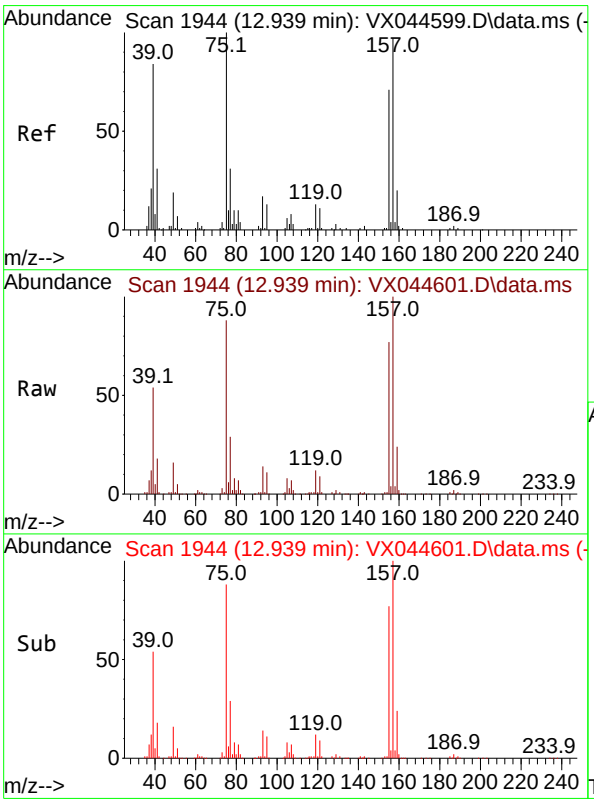
#91
1,2-Dichlorobenzene
Concen: 148.671 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:146 Resp: 656010

Ion	Ratio	Lower	Upper
146	100		
111	42.3	21.8	65.4
148	64.3	31.1	93.3

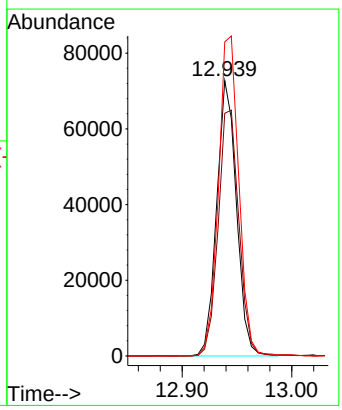


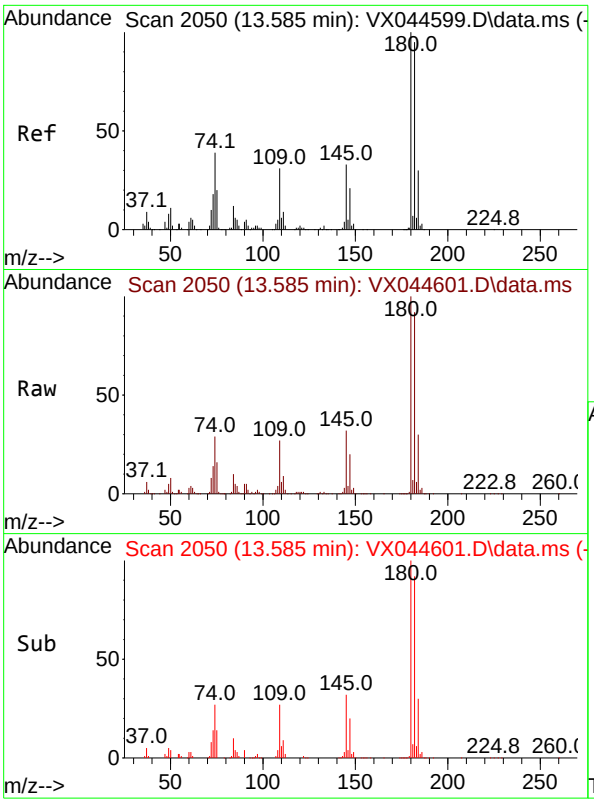


#92
1,2-Dibromo-3-Chloropropane
Concen: 149.956 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion: 75 Resp: 91050

Ion	Ratio	Lower	Upper
75	100		
155	94.2	37.4	112.1
157	120.0	48.0	144.2



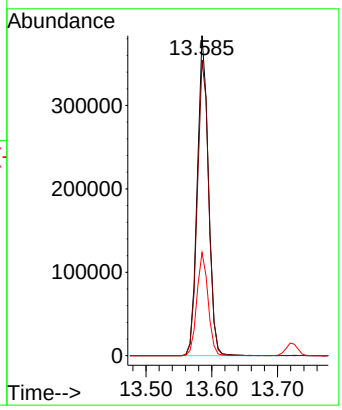


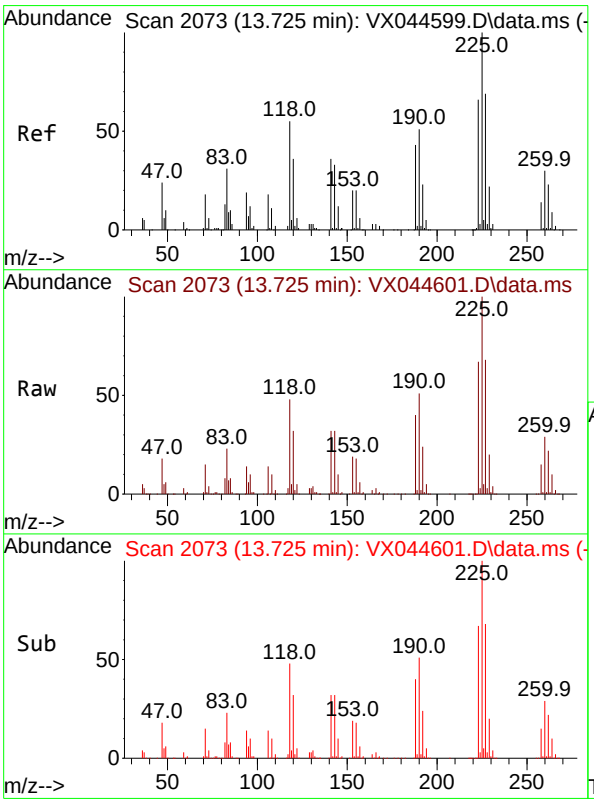
#93
1,2,4-Trichlorobenzene
Concen: 174.156 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:180 Resp: 451648

Ion	Ratio	Lower	Upper
180	100		
182	94.7	47.9	143.6
145	32.4	16.3	48.9

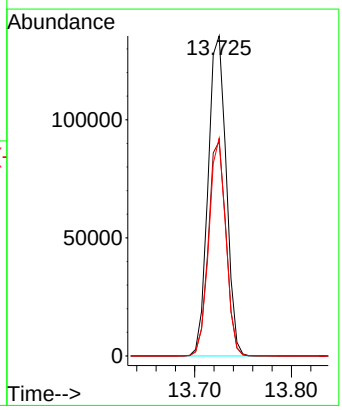


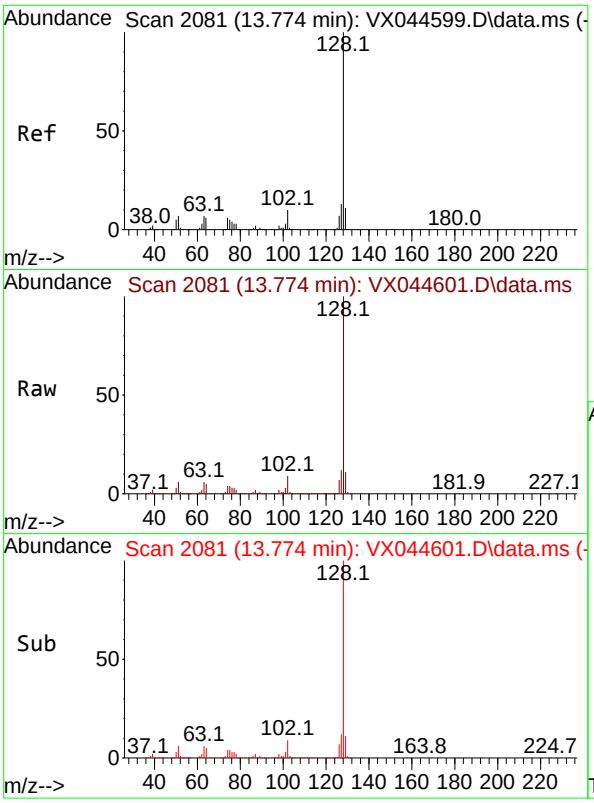


#94
Hexachlorobutadiene
Concen: 163.433 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion:225 Resp: 176486

Ion	Ratio	Lower	Upper
225	100		
223	65.1	31.6	94.8
227	63.8	31.9	95.9



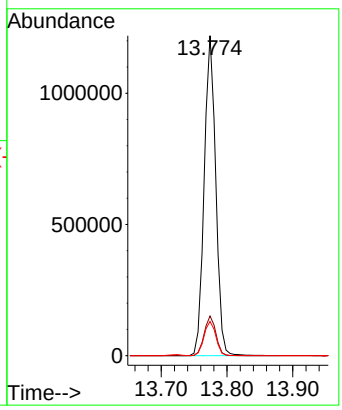


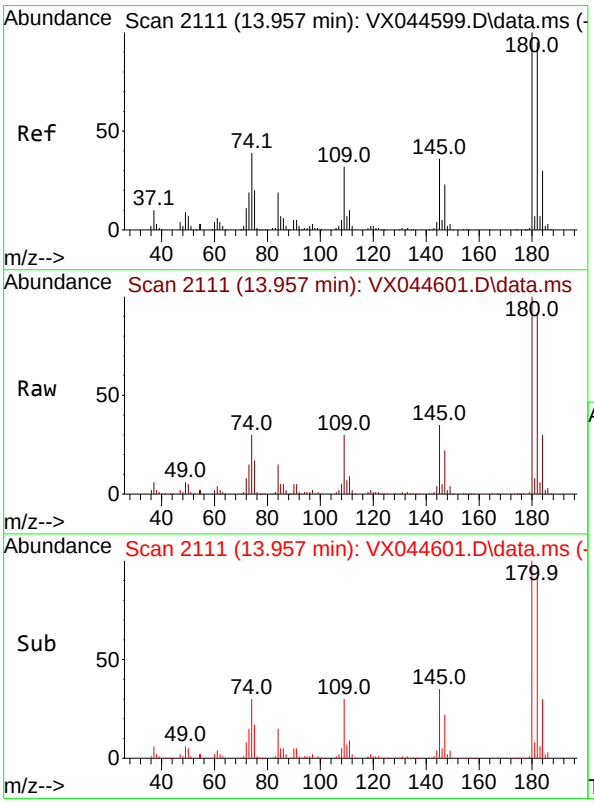
#95
Naphthalene
Concen: 178.076 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:128 Resp: 1490078

Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.5	15.7
129	11.0	8.6	13.0

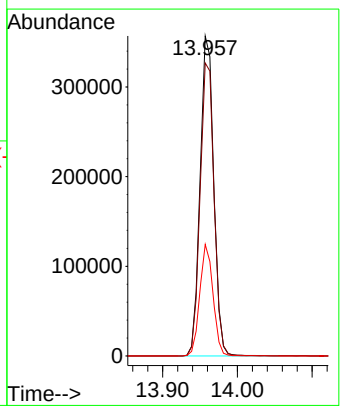




#96
1,2,3-Trichlorobenzene
Concen: 170.608 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX044601.D
Acq: 07 Jan 2025 12:00

Tgt Ion:180 Resp: 452293

Ion	Ratio	Lower	Upper
180	100		
182	93.9	47.6	142.9
145	33.9	17.6	52.9



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044603.D
Acq On : 07 Jan 2025 15:34
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Quant Time: Jan 08 05:52:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 03:57:12 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	189622	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	316532	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	272375	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	142987	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	150566	49.246	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 98.500%			
35) Dibromofluoromethane	5.373	113	107656	49.600	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 99.200%			
50) Toluene-d8	8.641	98	367621	49.585	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.160%			
62) 4-Bromofluorobenzene	11.079	95	150542	57.528	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 115.060%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	137239	50.020	ug/l	98
3) Chloromethane	1.294	50	119576	43.735	ug/l	100
4) Vinyl Chloride	1.374	62	119359	46.536	ug/l	96
5) Bromomethane	1.599	94	65604	49.378	ug/l	98
6) Chloroethane	1.666	64	70231	47.863	ug/l	93
7) Trichlorofluoromethane	1.874	101	201266	52.700	ug/l	99
8) Diethyl Ether	2.130	74	73413	54.402	ug/l	90
9) 1,1,2-Trichlorotrifluo...	2.319	101	110421	50.428	ug/l	99
10) Methyl Iodide	2.447	142	139874	45.809	ug/l	98
11) Tert butyl alcohol	2.983	59	95337	253.232	ug/l	100
12) 1,1-Dichloroethene	2.313	96	98796	46.573	ug/l	96
13) Acrolein	2.233	56	124124	249.358	ug/l	99
14) Allyl chloride	2.654	41	176735	50.095	ug/l	98
15) Acrylonitrile	3.056	53	276827	255.311	ug/l	99
16) Acetone	2.380	43	260807	270.648	ug/l	100
17) Carbon Disulfide	2.502	76	227180	51.792	ug/l	99
18) Methyl Acetate	2.697	43	146236	51.415	ug/l	98
19) Methyl tert-butyl Ether	3.111	73	365335	50.254	ug/l	98
20) Methylene Chloride	2.782	84	111866	45.503	ug/l	97
21) trans-1,2-Dichloroethene	3.081	96	104553	48.023	ug/l	94
22) Diisopropyl ether	3.757	45	360215	49.668	ug/l	93
23) Vinyl Acetate	3.715	43	1599276	272.695	ug/l	100
24) 1,1-Dichloroethane	3.599	63	203388	48.129	ug/l	99
25) 2-Butanone	4.550	43	387604	278.669	ug/l	98
26) 2,2-Dichloropropane	4.471	77	188592	51.617	ug/l	98
27) cis-1,2-Dichloroethene	4.477	96	124341	46.837	ug/l	98
28) Bromochloromethane	4.885	49	100146	50.910	ug/l	96
29) Tetrahydrofuran	5.001	42	245915	258.181	ug/l	99
30) Chloroform	5.080	83	215072	47.209	ug/l	99
31) Cyclohexane	5.458	56	172928	49.840	ug/l	92
32) 1,1,1-Trichloroethane	5.373	97	196434	51.235	ug/l	99
36) 1,1-Dichloropropene	5.684	75	141163	50.296	ug/l	99
37) Ethyl Acetate	4.702	43	159354	55.503	ug/l	99
38) Carbon Tetrachloride	5.666	117	162259	52.106	ug/l	95
39) Methylcyclohexane	7.373	83	184835	51.612	ug/l	98
40) Benzene	6.025	78	423783	47.956	ug/l	100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044603.D
Acq On : 07 Jan 2025 15:34
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Quant Time: Jan 08 05:52:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 03:57:12 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.910	41	86868	56.367	ug/l		98
42) 1,2-Dichloroethane	6.074	62	178591	51.677	ug/l		99
43) Isopropyl Acetate	6.330	43	260884	55.077	ug/l		100
44) Trichloroethene	7.117	130	105105	46.528	ug/l		99
45) 1,2-Dichloropropane	7.421	63	104909	48.692	ug/l		96
46) Dibromomethane	7.574	93	82661	49.332	ug/l		99
47) Bromodichloromethane	7.818	83	157989	51.813	ug/l		98
48) Methyl methacrylate	7.690	41	129253	57.212	ug/l		97
49) 1,4-Dioxane	7.659	88	34995	1054.109	ug/l		97
51) 4-Methyl-2-Pentanone	8.568	43	781060	282.088	ug/l		99
52) Toluene	8.714	92	266026	49.893	ug/l		96
53) t-1,3-Dichloropropene	8.976	75	161793	55.511	ug/l		97
54) cis-1,3-Dichloropropene	8.360	75	174299	53.210	ug/l		97
55) 1,1,2-Trichloroethane	9.147	97	101873	48.736	ug/l		96
56) Ethyl methacrylate	9.110	69	166968	54.925	ug/l		97
57) 1,3-Dichloropropane	9.305	76	179394	51.108	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	388986	258.112	ug/l		99
59) 2-Hexanone	9.427	43	572995	292.615	ug/l		99
60) Dibromochloromethane	9.519	129	114110	54.749	ug/l		98
61) 1,2-Dibromoethane	9.604	107	108755	51.516	ug/l		97
64) Tetrachloroethene	9.269	164	92504	48.035	ug/l		99
65) Chlorobenzene	10.073	112	284281	49.177	ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.159	131	99668	51.911	ug/l		97
67) Ethyl Benzene	10.189	91	508409	51.215	ug/l		99
68) m/p-Xylenes	10.299	106	375022	102.808	ug/l		99
69) o-Xylene	10.640	106	182474	49.559	ug/l		99
70) Styrene	10.653	104	308264	52.345	ug/l		99
71) Bromoform	10.799	173	68778	51.015	ug/l	#	99
73) Isopropylbenzene	10.957	105	548529	51.780	ug/l		99
74) N-amyl acetate	10.842	43	222407	51.742	ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.207	83	172209	50.433	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	192390	67.121	ug/l		85
77) Bromobenzene	11.195	156	129350	50.264	ug/l		97
78) n-propylbenzene	11.299	91	619242	51.897	ug/l		98
79) 2-Chlorotoluene	11.360	91	372370	48.159	ug/l		100
80) 1,3,5-Trimethylbenzene	11.451	105	448527	51.065	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	52615	55.876	ug/l		95
82) 4-Chlorotoluene	11.451	91	425096	48.871	ug/l		99
83) tert-Butylbenzene	11.713	119	456871	52.238	ug/l		98
84) 1,2,4-Trimethylbenzene	11.750	105	458866	52.007	ug/l		99
85) sec-Butylbenzene	11.890	105	557449	52.335	ug/l		100
86) p-Isopropyltoluene	12.006	119	471864	52.797	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	234785	50.434	ug/l		99
88) 1,4-Dichlorobenzene	12.036	146	232239	47.881	ug/l		99
89) n-Butylbenzene	12.329	91	401929	53.259	ug/l		98
90) Hexachloroethane	12.536	117	74415	51.831	ug/l		98
91) 1,2-Dichlorobenzene	12.335	146	228094	48.487	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.939	75	35205	54.385	ug/l		97
93) 1,2,4-Trichlorobenzene	13.585	180	141302	51.107	ug/l		98
94) Hexachlorobutadiene	13.725	225	60585	52.624	ug/l		99
95) Naphthalene	13.774	128	505215	56.632	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	137582	48.678	ug/l		100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044603.D
Acq On : 07 Jan 2025 15:34
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Quant Time: Jan 08 05:52:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 03:57:12 2025
Response via : Initial Calibration

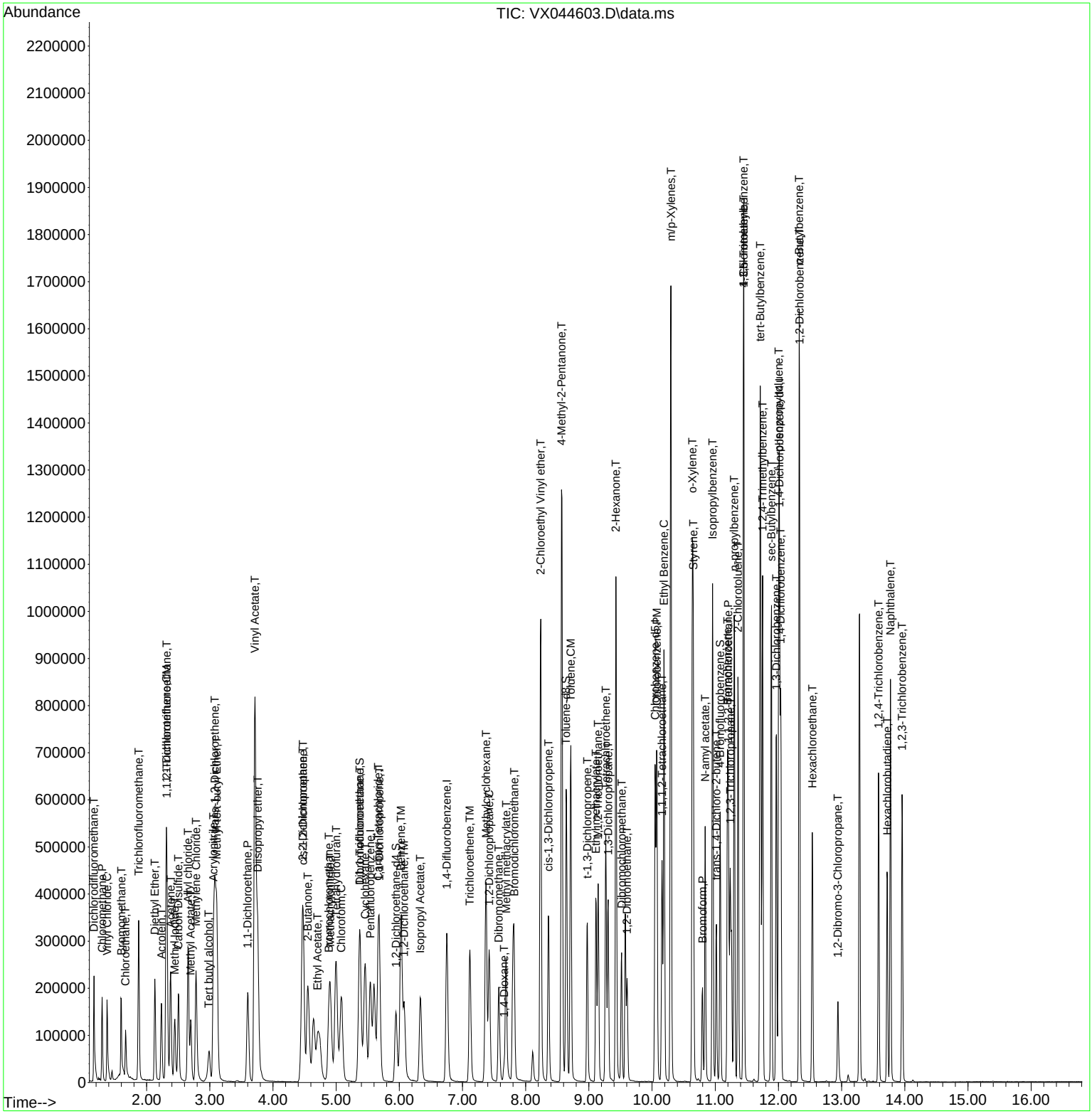
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

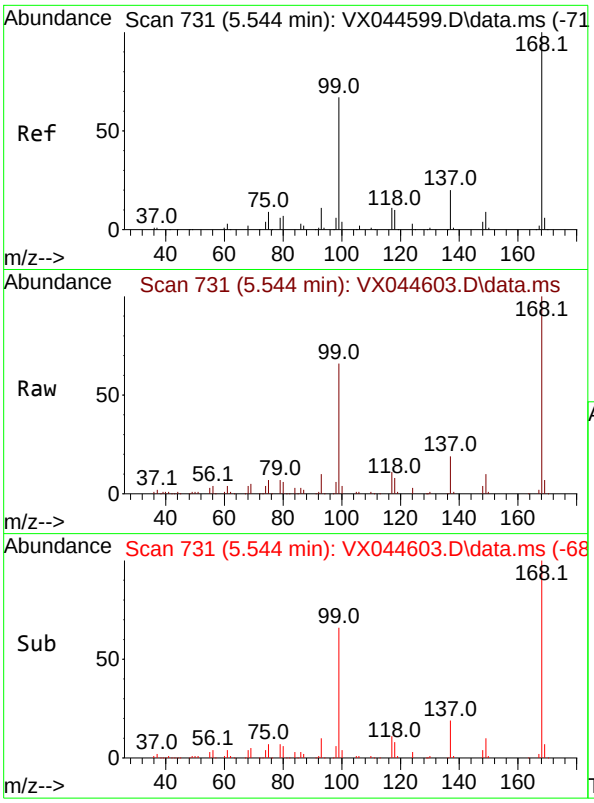
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044603.D
Acq On : 07 Jan 2025 15:34
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Quant Time: Jan 08 05:52:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 03:57:12 2025
Response via : Initial Calibration



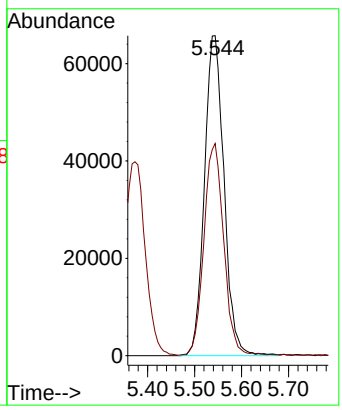


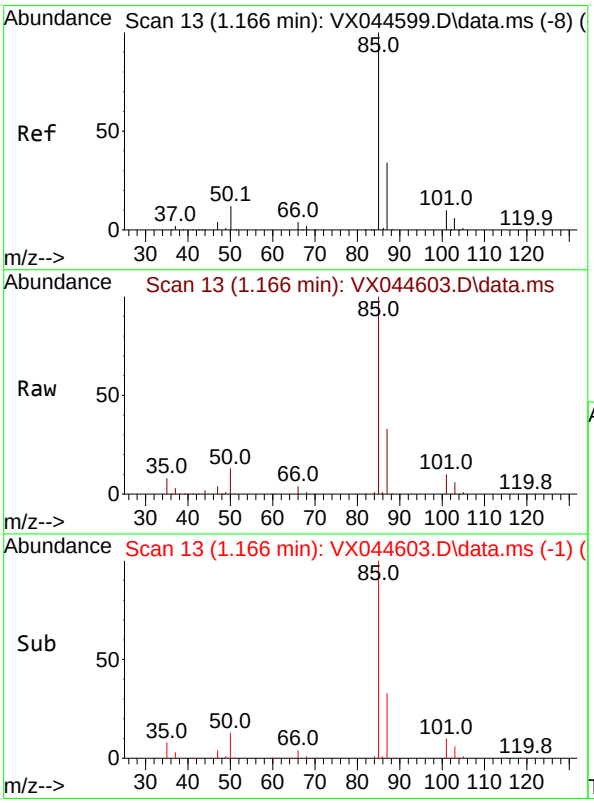
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Tgt Ion:168 Resp: 189622

Ion	Ratio	Lower	Upper
168	100		
99	66.2	53.5	80.3

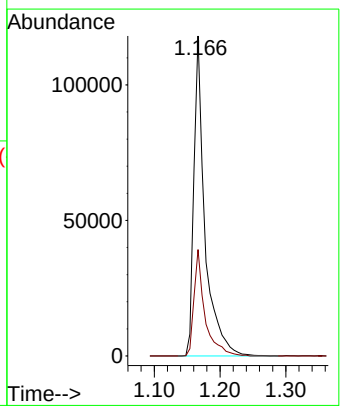


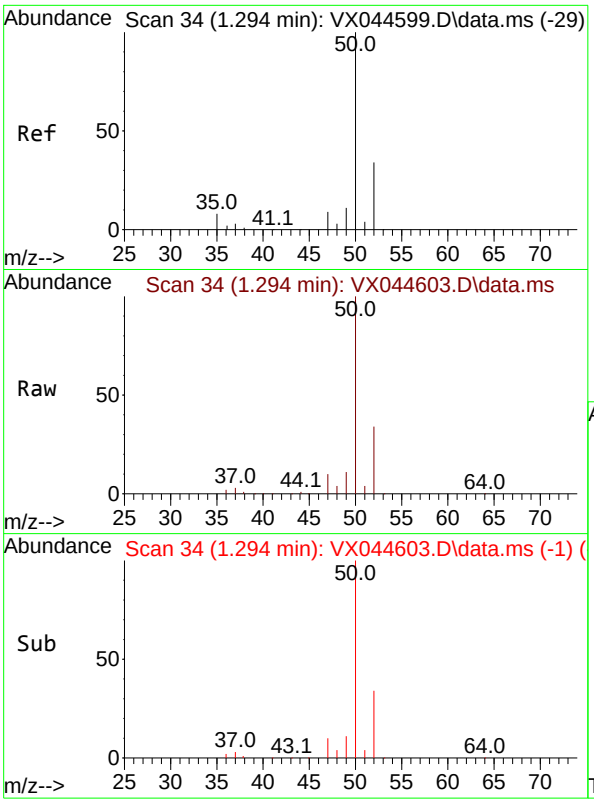


#2
Dichlorodifluoromethane
Concen: 50.020 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 85 Resp: 137239

Ion	Ratio	Lower	Upper
85	100		
87	33.3	17.2	51.5



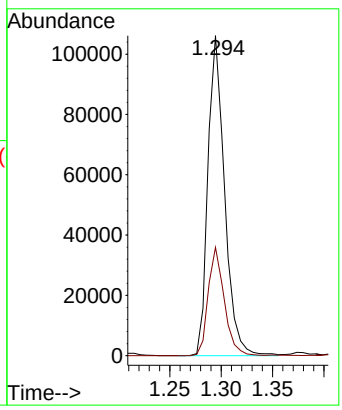


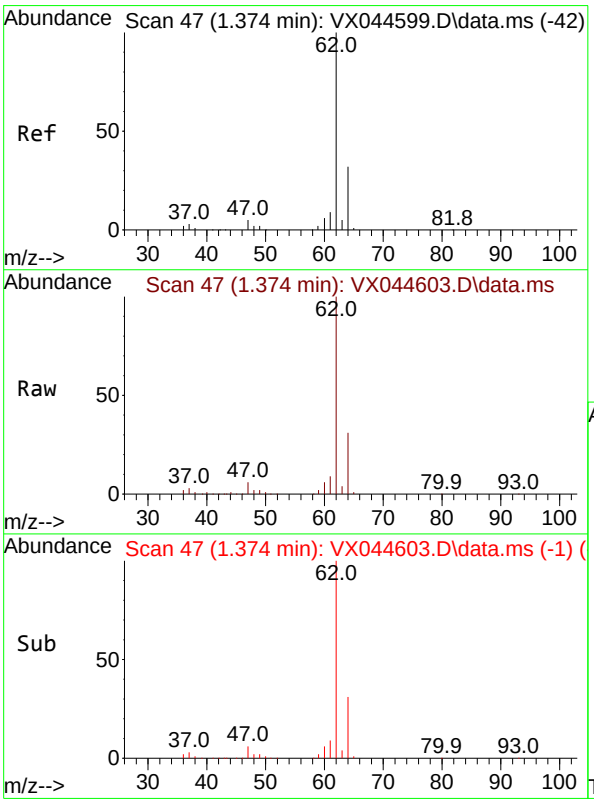
#3
Chloromethane
Concen: 43.735 ug/l
RT: 1.294 min Scan# 34
Delta R.T. 0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Tgt Ion: 50 Resp: 119576

Ion	Ratio	Lower	Upper
50	100		
52	33.8	27.0	40.4

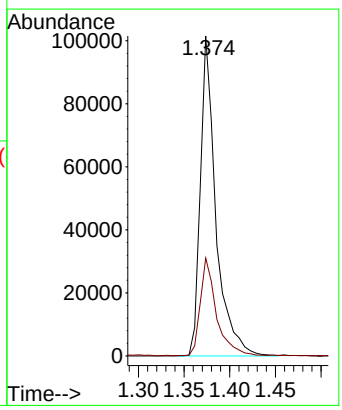


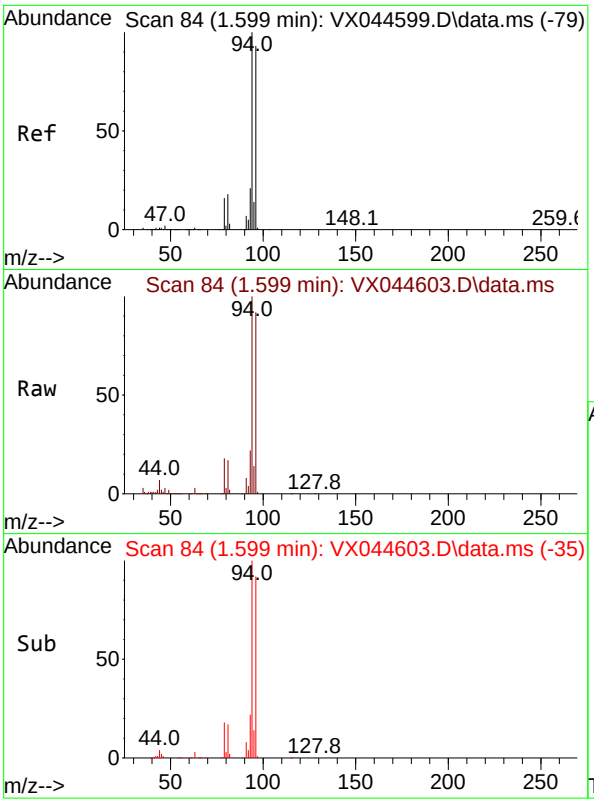


#4
Vinyl Chloride
Concen: 46.536 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 62 Resp: 119359

Ion	Ratio	Lower	Upper
62	100		
64	30.4	26.0	39.0



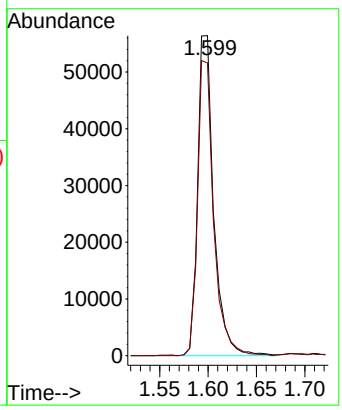


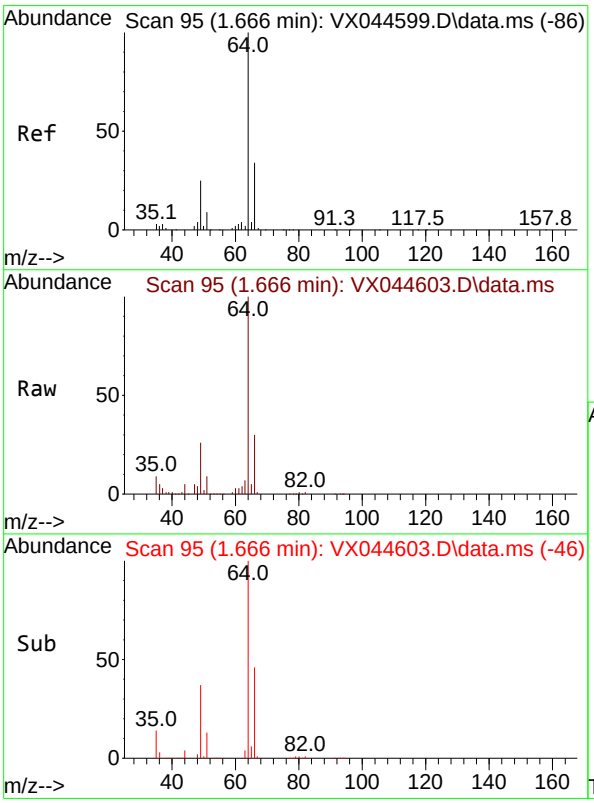
#5
Bromomethane
Concen: 49.378 ug/l
RT: 1.599 min Scan# 84
Delta R.T. 0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Tgt Ion: 94 Resp: 65604

Ion	Ratio	Lower	Upper
94	100		
96	91.5	74.6	112.0

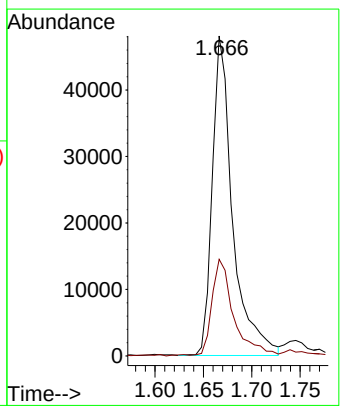


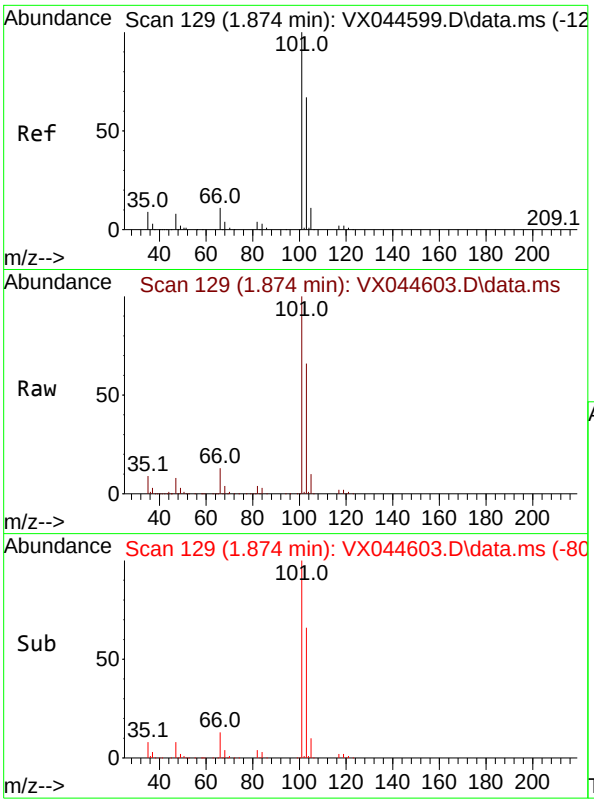


#6
Chloroethane
Concen: 47.863 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 64 Resp: 70231

Ion	Ratio	Lower	Upper
64	100		
66	30.0	27.3	40.9



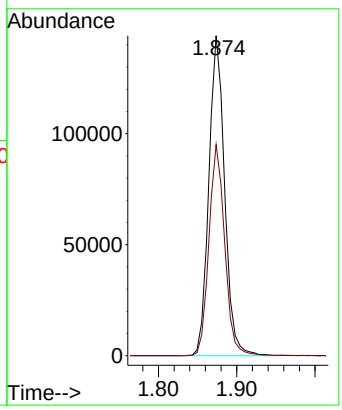


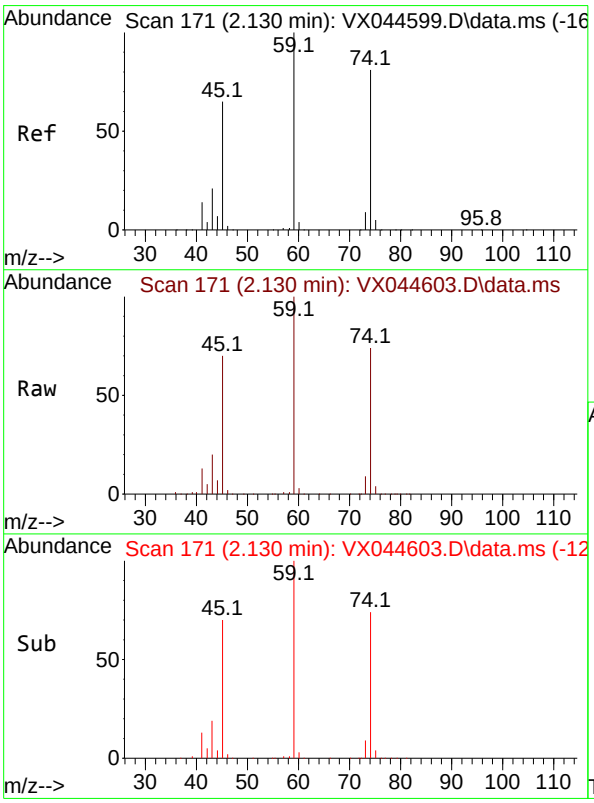
#7
Trichlorofluoromethane
Concen: 52.700 ug/l
RT: 1.874 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Tgt Ion:101 Resp: 201266

Ion	Ratio	Lower	Upper
101	100		
103	65.9	53.3	79.9

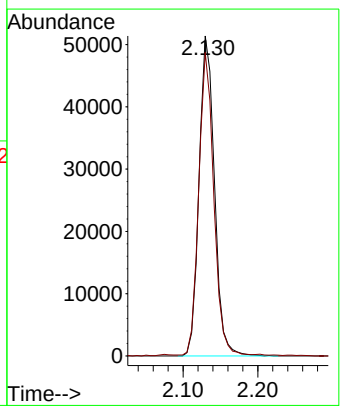


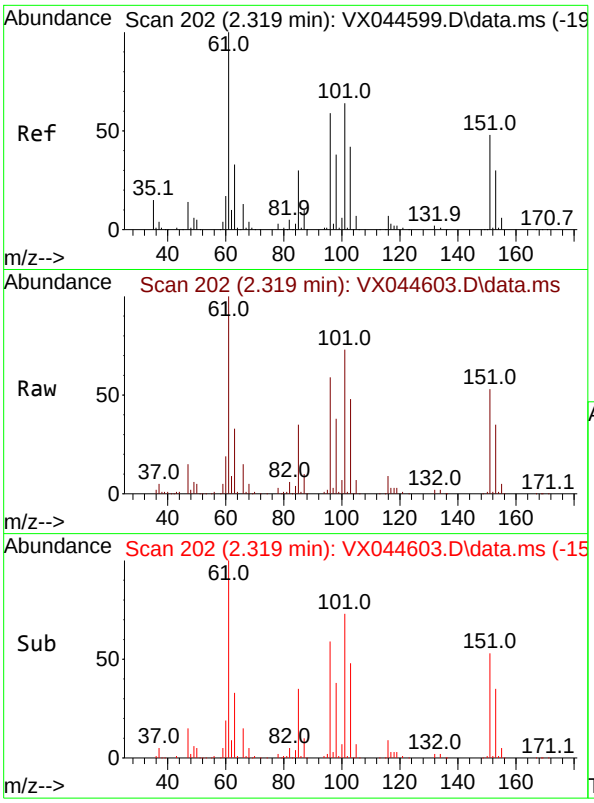


#8
Diethyl Ether
Concen: 54.402 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 74 Resp: 73413

Ion	Ratio	Lower	Upper
74	100		
45	92.8	41.7	125.1



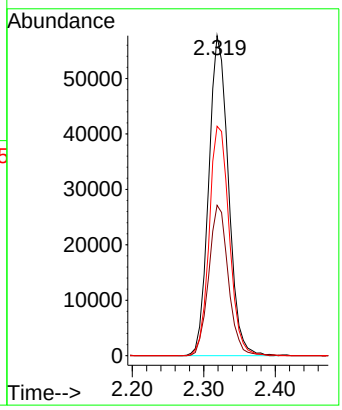


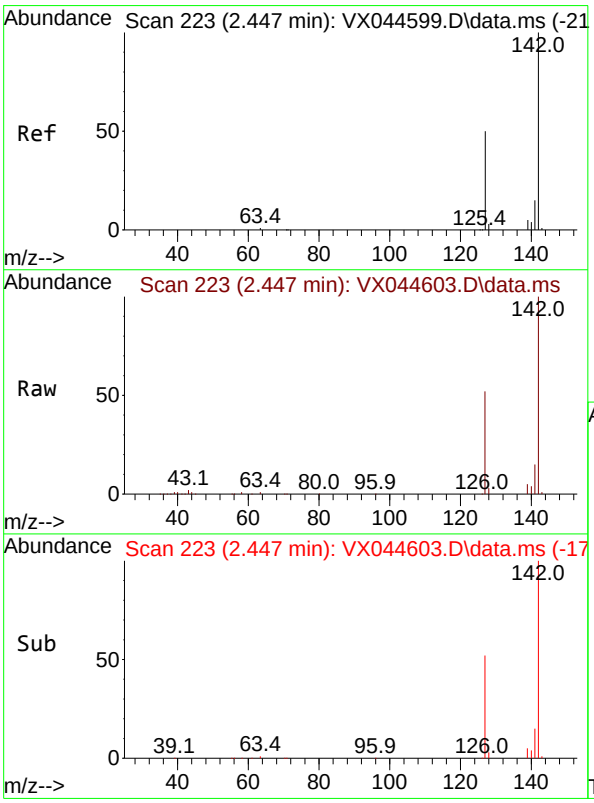
#9
1,1,2-Trichlorotrifluoroethane
Concen: 50.428 ug/l
RT: 2.319 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Tgt Ion:101 Resp: 110421

Ion	Ratio	Lower	Upper
101	100		
85	46.7	36.5	54.7
151	73.1	58.6	87.8

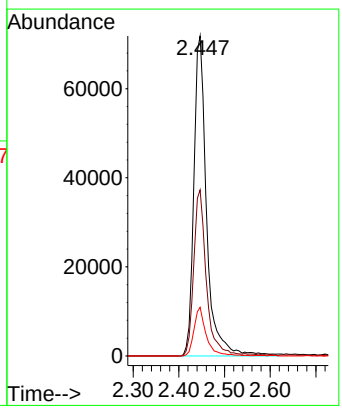


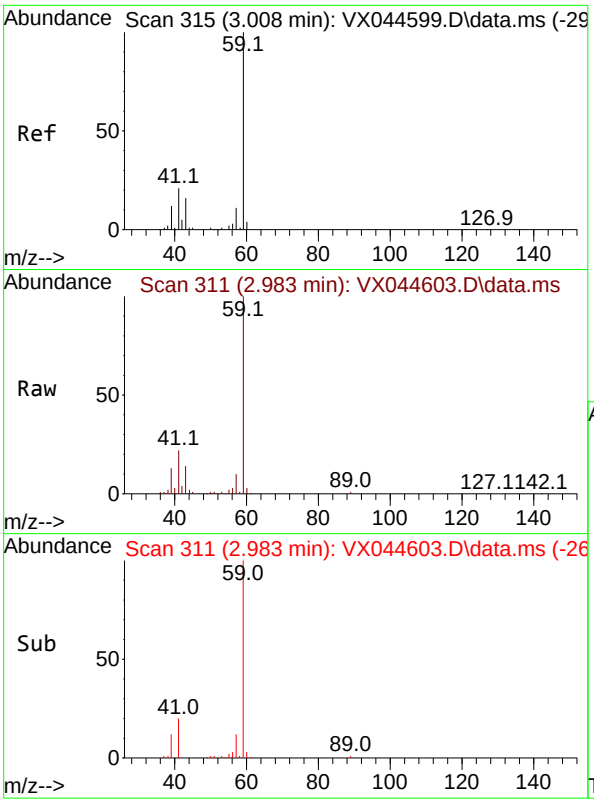


#10
Methyl Iodide
Concen: 45.809 ug/l
RT: 2.447 min Scan# 223
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion:142 Resp: 139874

Ion	Ratio	Lower	Upper
142	100		
127	51.1	41.9	62.9
141	14.5	11.8	17.6



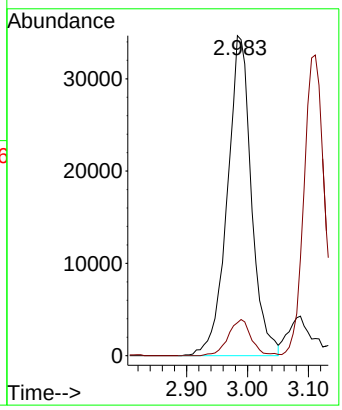


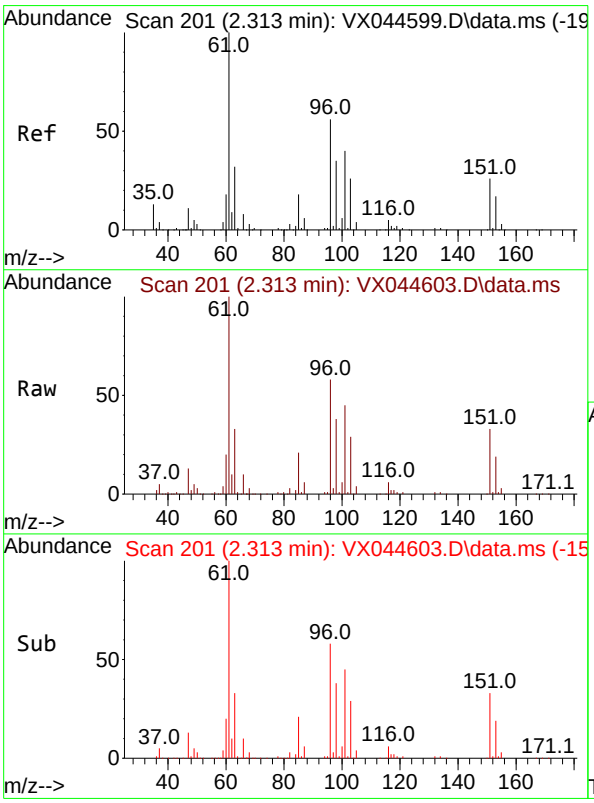
#11
Tert butyl alcohol
Concen: 253.232 ug/l
RT: 2.983 min Scan# 3
Delta R.T. -0.024 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Tgt Ion: 59 Resp: 95337

Ion	Ratio	Lower	Upper
59	100		
57	10.9	8.6	12.8

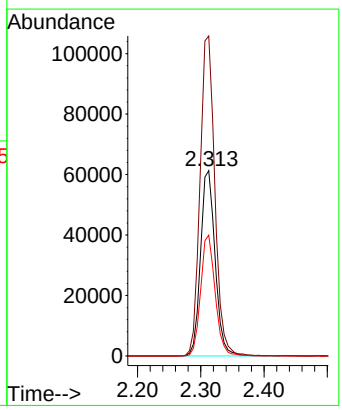


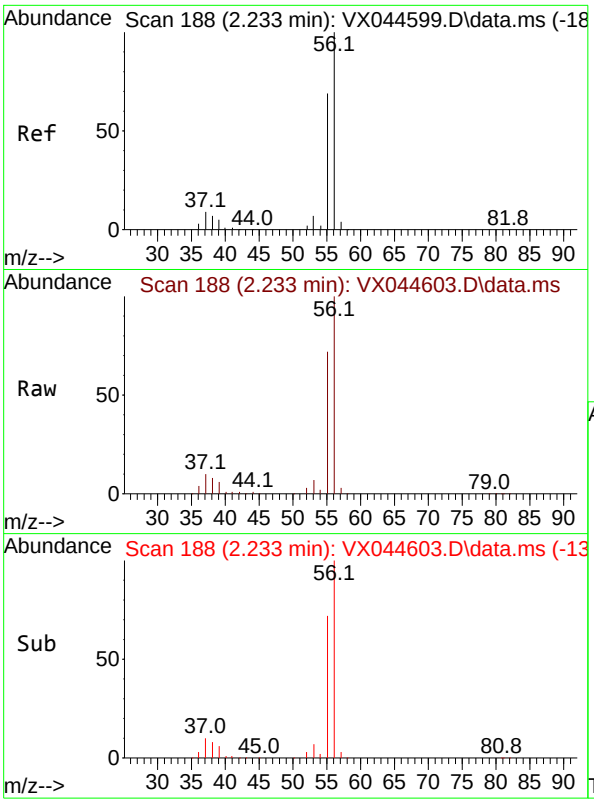


#12
1,1-Dichloroethene
Concen: 46.573 ug/l
RT: 2.313 min Scan# 201
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 96 Resp: 98796

Ion	Ratio	Lower	Upper
96	100		
61	172.7	143.3	214.9
98	65.2	50.6	76.0



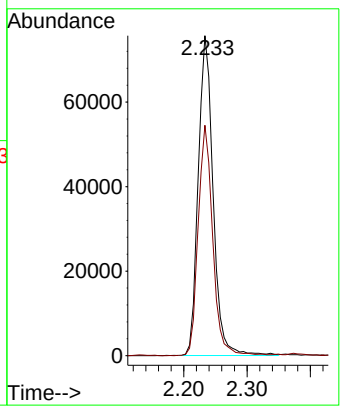


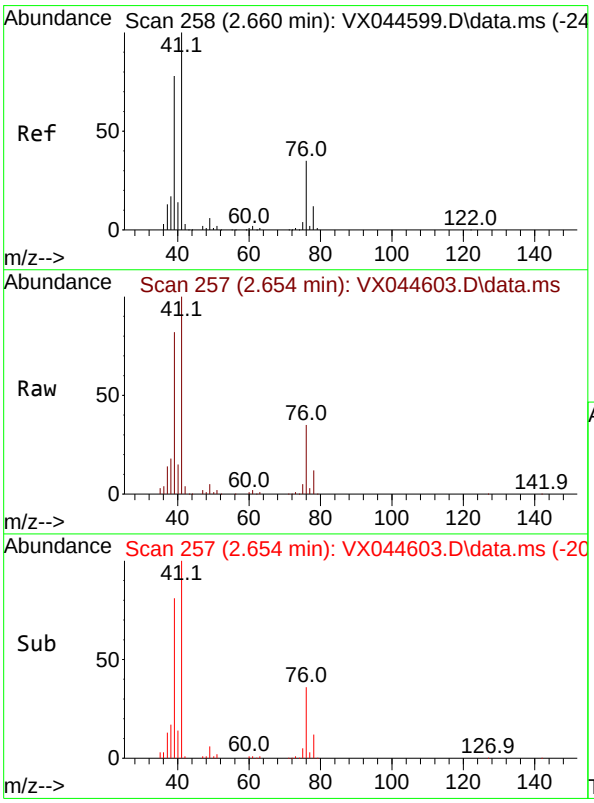
#13
Acrolein
Concen: 249.358 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Tgt Ion: 56 Resp: 124124

Ion	Ratio	Lower	Upper
56	100		
55	70.7	55.8	83.8

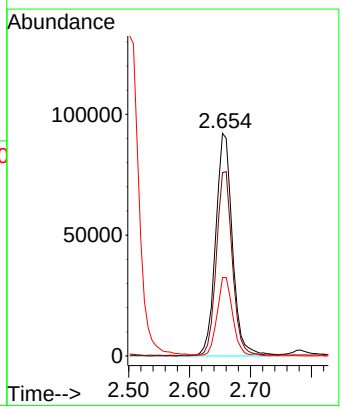


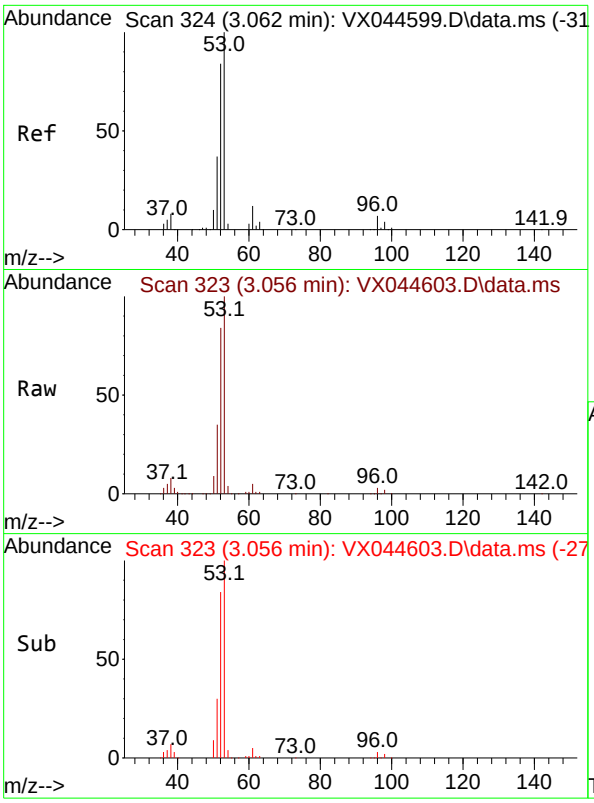


#14
Allyl chloride
Concen: 50.095 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.006 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 41 Resp: 176735

Ion	Ratio	Lower	Upper
41	100		
39	78.1	60.2	90.2
76	32.5	25.9	38.9



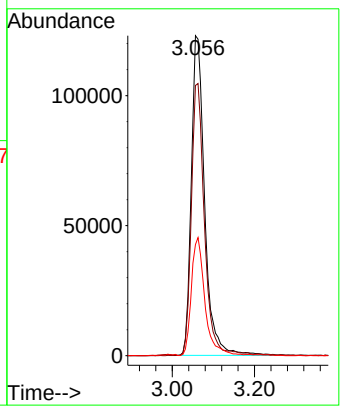


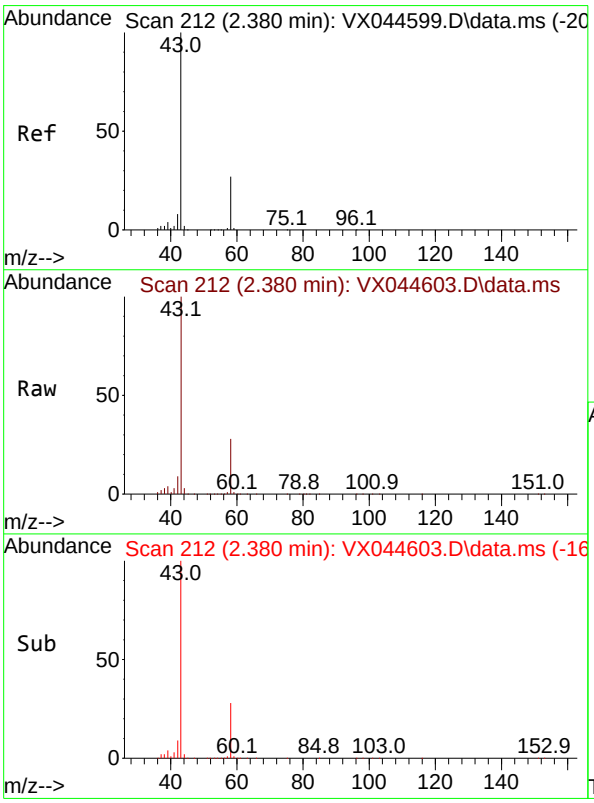
#15
Acrylonitrile
Concen: 255.311 ug/l
RT: 3.056 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Tgt Ion: 53 Resp: 276827

Ion	Ratio	Lower	Upper
53	100		
52	83.7	67.0	100.6
51	37.7	29.4	44.0

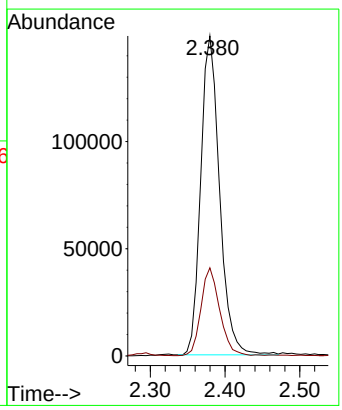


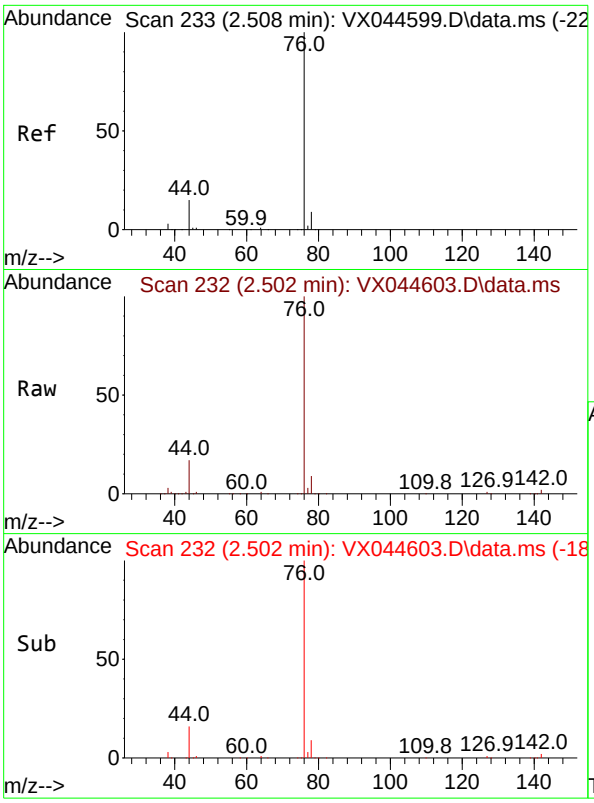


#16
Acetone
Concen: 270.648 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 43 Resp: 260807

Ion	Ratio	Lower	Upper
43	100		
58	27.5	22.0	33.0



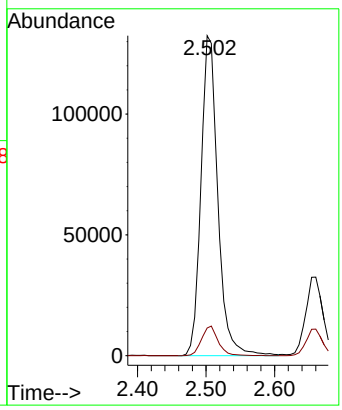


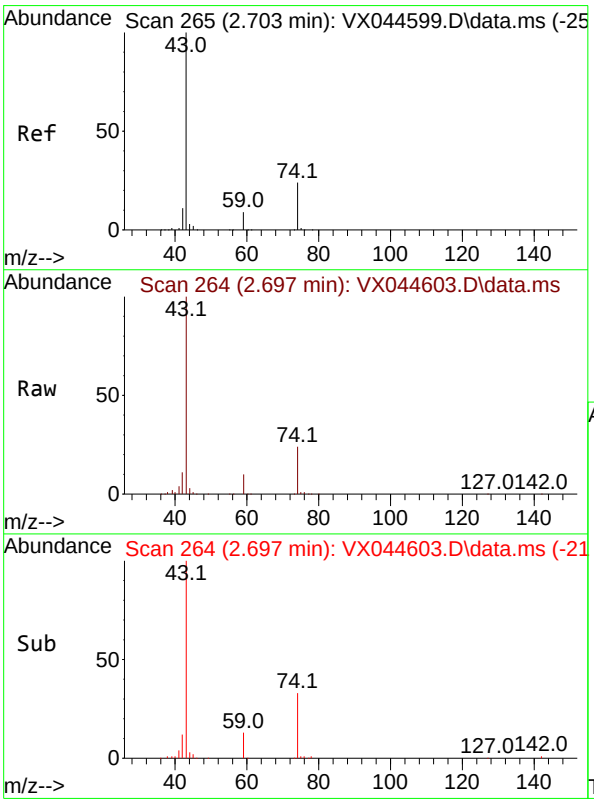
#17
Carbon Disulfide
Concen: 51.792 ug/l
RT: 2.502 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Tgt Ion: 76 Resp: 227180

Ion	Ratio	Lower	Upper
76	100		
78	8.7	7.1	10.7

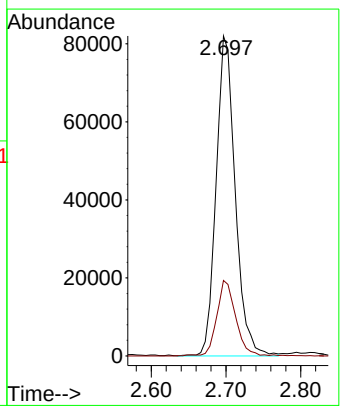


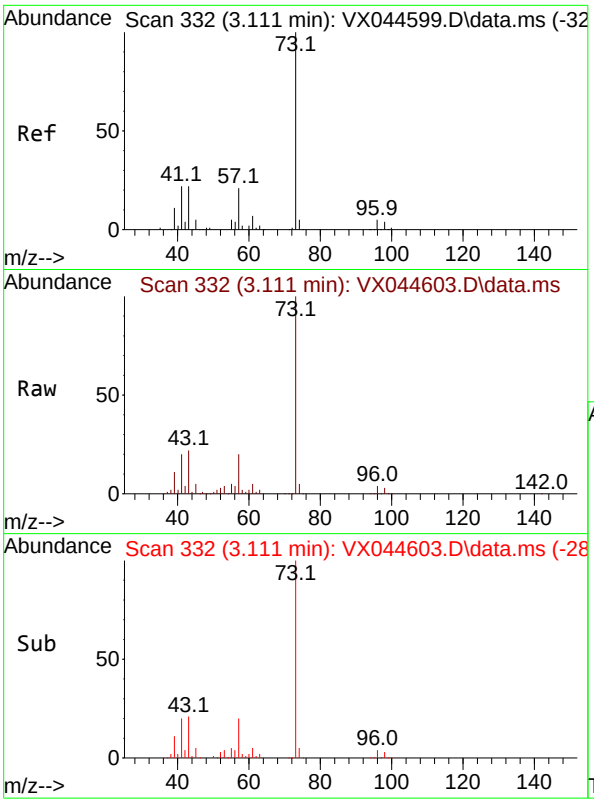


#18
Methyl Acetate
Concen: 51.415 ug/l
RT: 2.697 min Scan# 264
Delta R.T. -0.006 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 43 Resp: 146236

Ion	Ratio	Lower	Upper
43	100		
74	23.3	19.3	28.9



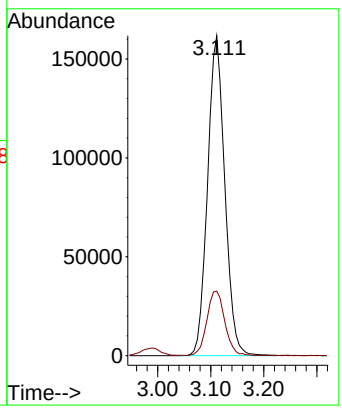


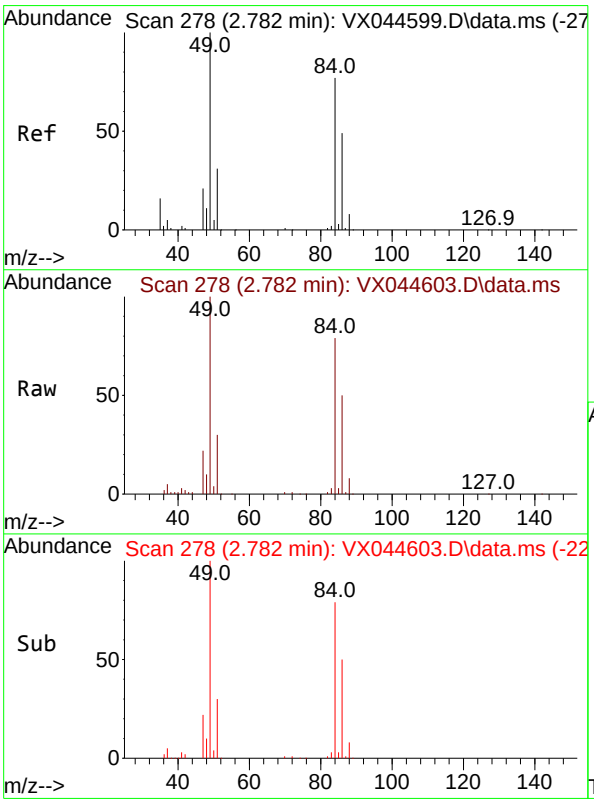
#19
Methyl tert-butyl Ether
Concen: 50.254 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Tgt Ion: 73 Resp: 365335

Ion	Ratio	Lower	Upper
73	100		
57	20.0	17.0	25.4

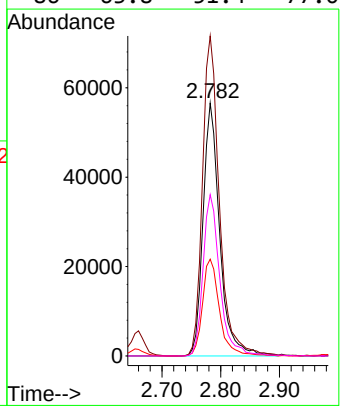


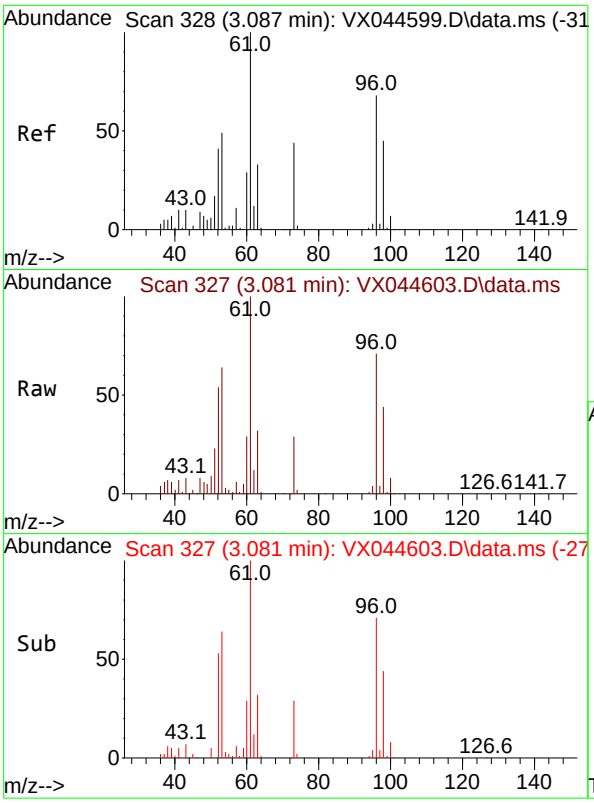


#20
Methylene Chloride
Concen: 45.503 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 84 Resp: 111866

Ion	Ratio	Lower	Upper
84	100		
49	126.5	104.4	156.6
51	38.3	32.0	48.0
86	63.8	51.4	77.0



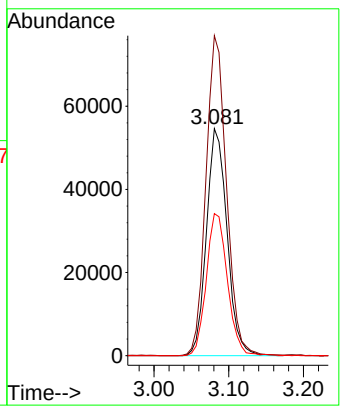


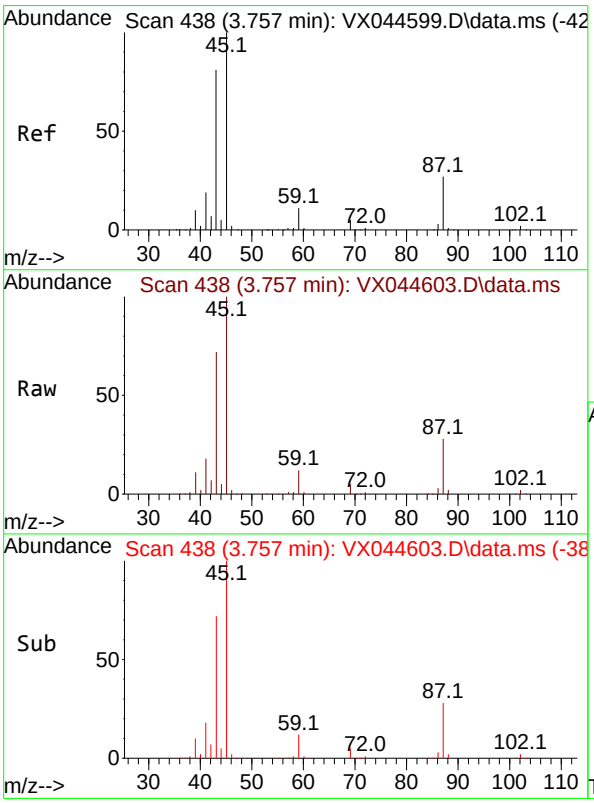
#21
trans-1,2-Dichloroethene
Concen: 48.023 ug/l
RT: 3.081 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Tgt Ion: 96 Resp: 104553

Ion	Ratio	Lower	Upper
96	100		
61	140.9	118.5	177.7
98	62.6	53.4	80.0

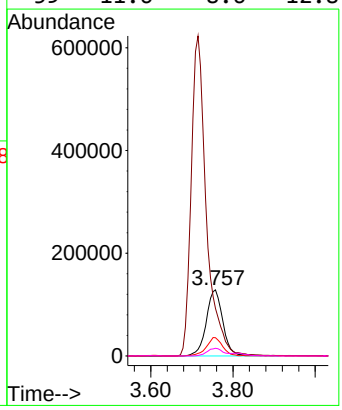


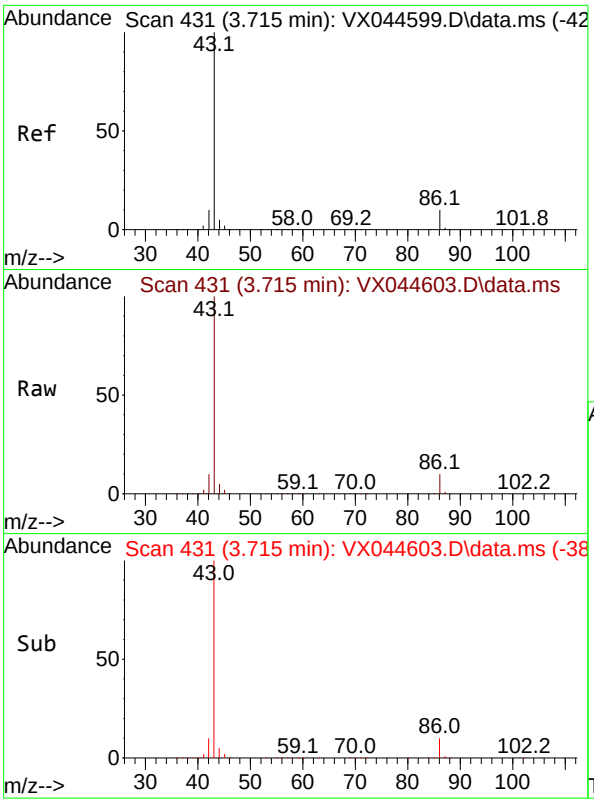


#22
Diisopropyl ether
Concen: 49.668 ug/l
RT: 3.757 min Scan# 438
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 45 Resp: 360215

Ion	Ratio	Lower	Upper
45	100		
43	71.8	64.6	97.0
87	27.5	21.8	32.8
59	11.6	8.6	12.8



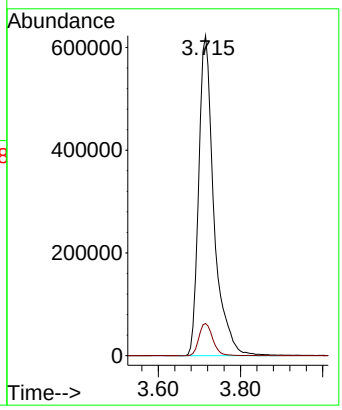


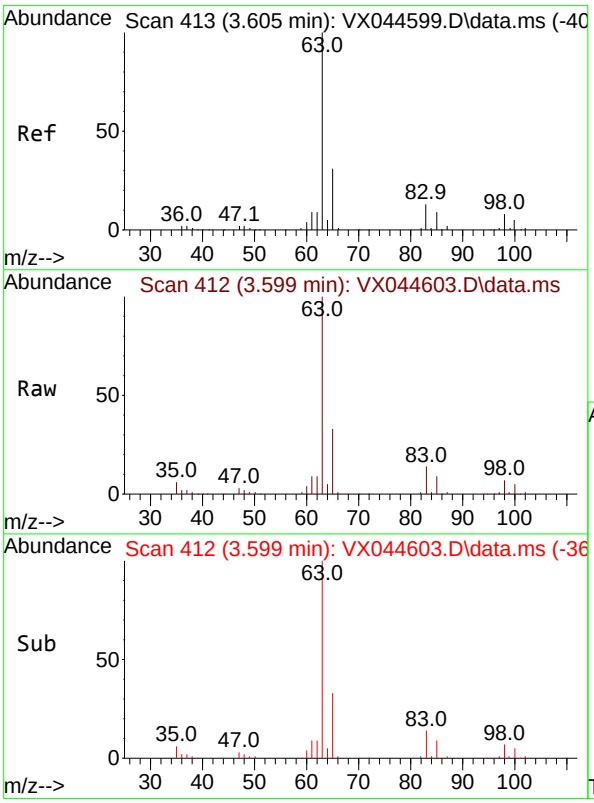
#23
Vinyl Acetate
Concen: 272.695 ug/l
RT: 3.715 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Tgt Ion: 43 Resp: 1599276

Ion	Ratio	Lower	Upper
43	100		
86	10.0	8.1	12.1

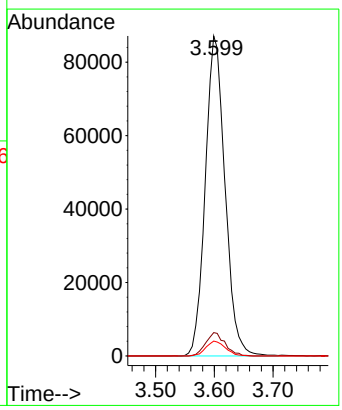


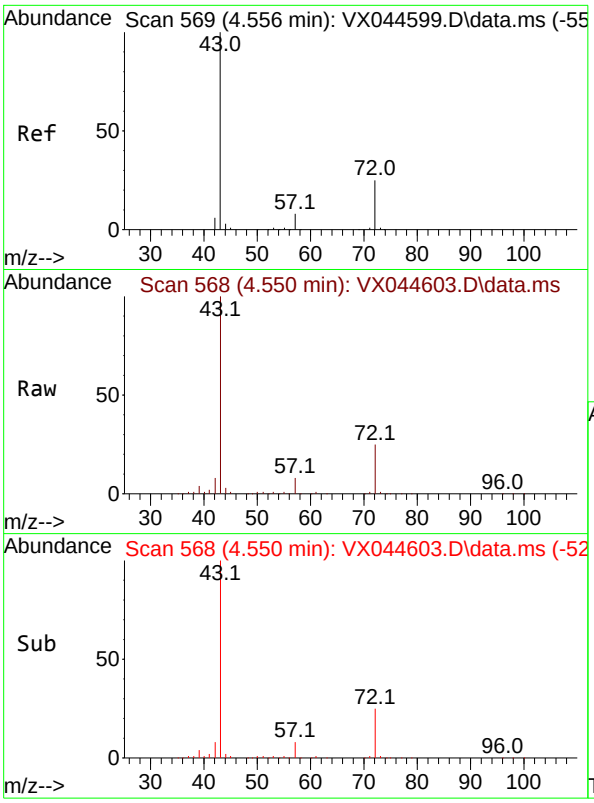


#24
1,1-Dichloroethane
Concen: 48.129 ug/l
RT: 3.599 min Scan# 412
Delta R.T. -0.006 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 63 Resp: 203388

Ion	Ratio	Lower	Upper
63	100		
98	7.3	3.8	11.4
100	4.6	2.4	7.2



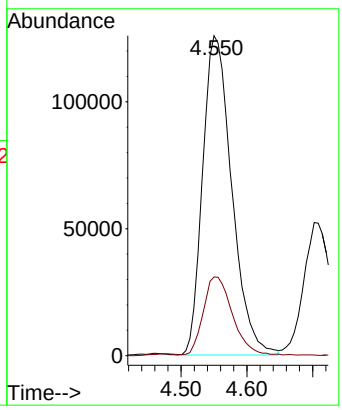


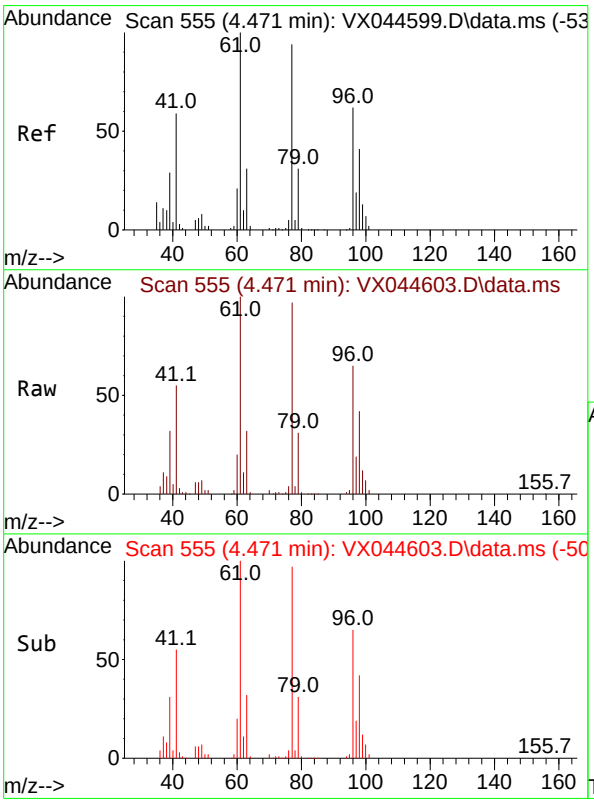
#25
2-Butanone
Concen: 278.669 ug/l
RT: 4.550 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Tgt Ion: 43 Resp: 387604

Ion	Ratio	Lower	Upper
43	100		
72	24.3	20.2	30.2

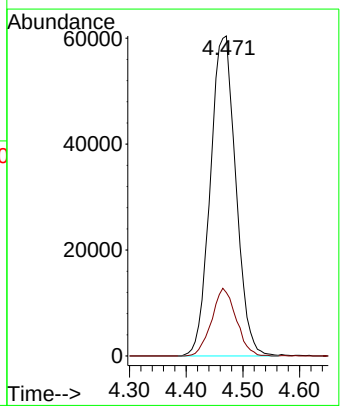


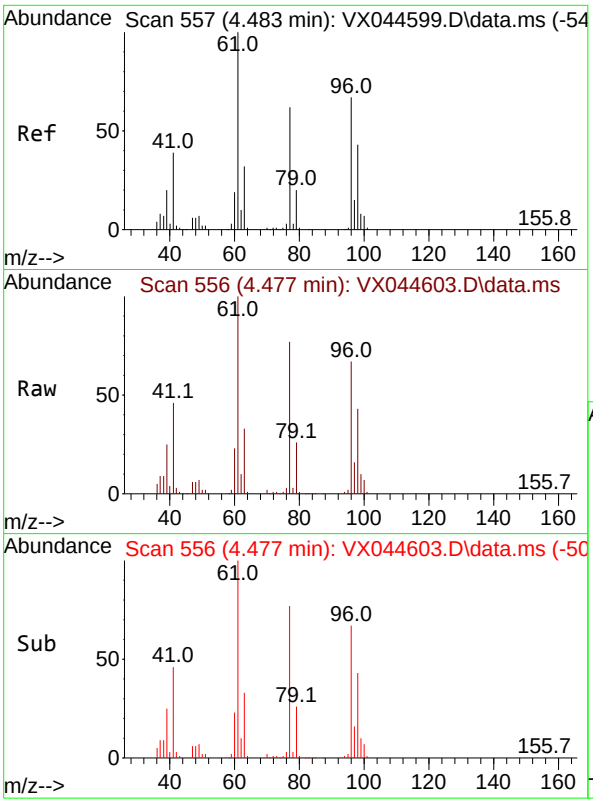


#26
2,2-Dichloropropane
Concen: 51.617 ug/l
RT: 4.471 min Scan# 555
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 77 Resp: 188592

Ion	Ratio	Lower	Upper
77	100		
97	20.4	10.7	32.1



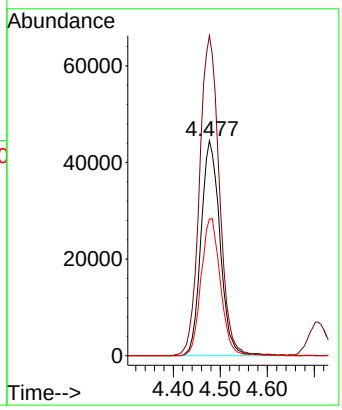


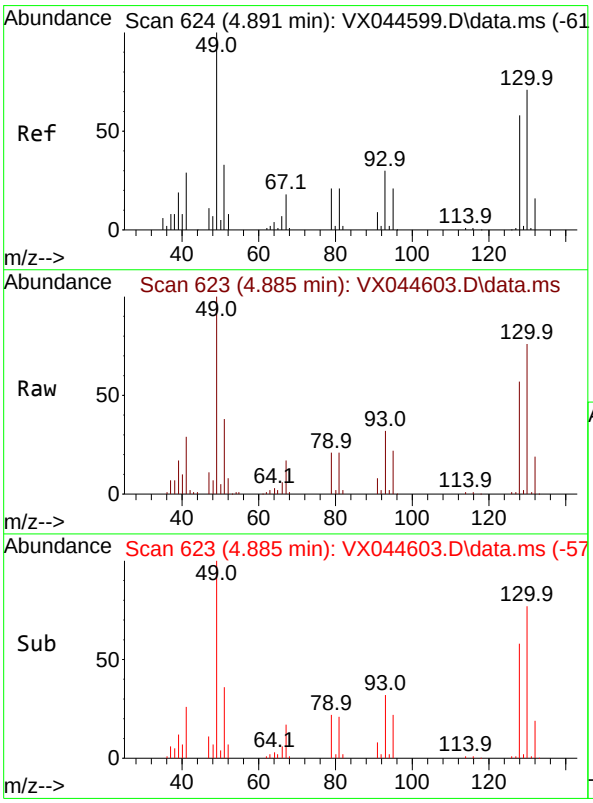
#27
cis-1,2-Dichloroethene
Concen: 46.837 ug/l
RT: 4.477 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Tgt Ion: 96 Resp: 124341

Ion	Ratio	Lower	Upper
96	100		
61	155.3	0.0	302.8
98	65.1	0.0	130.0

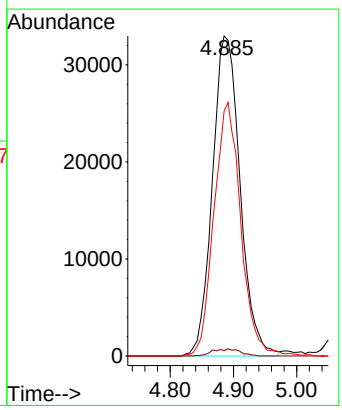


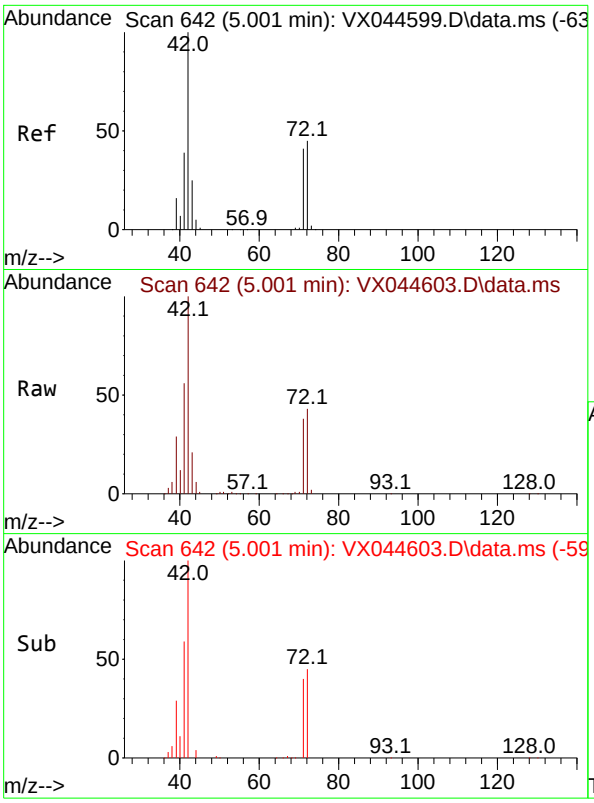


#28
Bromochloromethane
Concen: 50.910 ug/l
RT: 4.885 min Scan# 623
Delta R.T. -0.006 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 49 Resp: 100146

Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	4.2
130	76.9	58.8	88.2



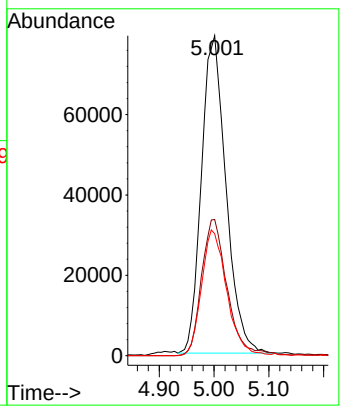


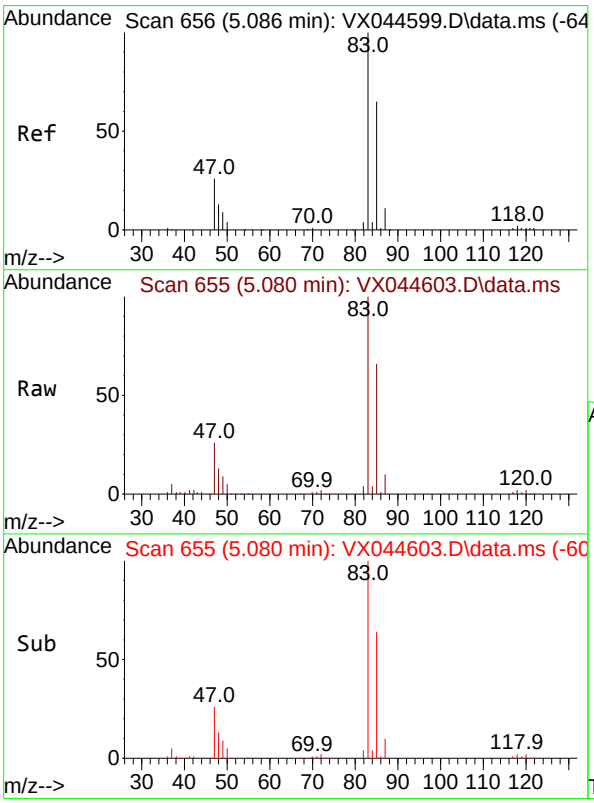
#29
Tetrahydrofuran
Concen: 258.181 ug/l
RT: 5.001 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Tgt Ion: 42 Resp: 245915

Ion	Ratio	Lower	Upper
42	100		
72	44.8	36.1	54.1
71	40.5	33.0	49.6

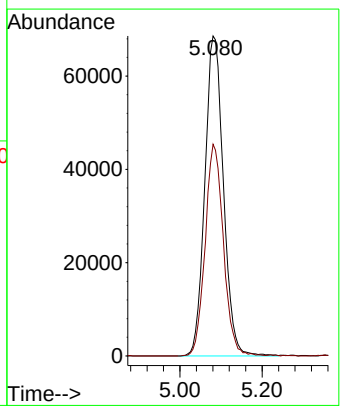


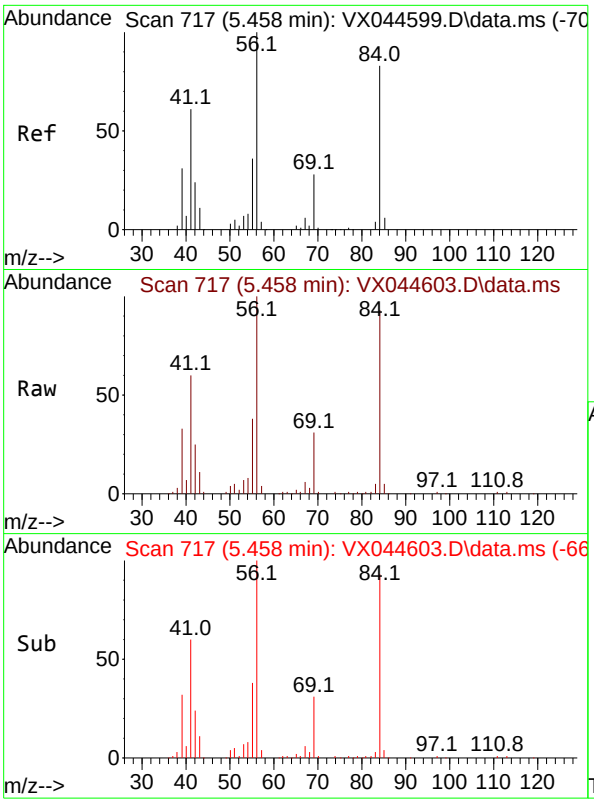


#30
Chloroform
Concen: 47.209 ug/l
RT: 5.080 min Scan# 655
Delta R.T. -0.006 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 83 Resp: 215072

Ion	Ratio	Lower	Upper
83	100		
85	66.1	52.3	78.5



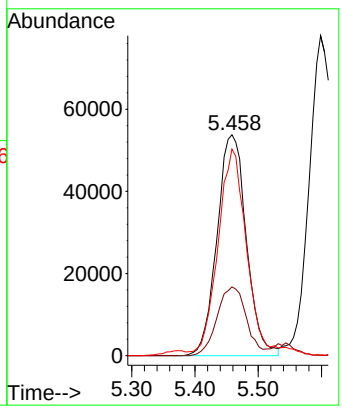


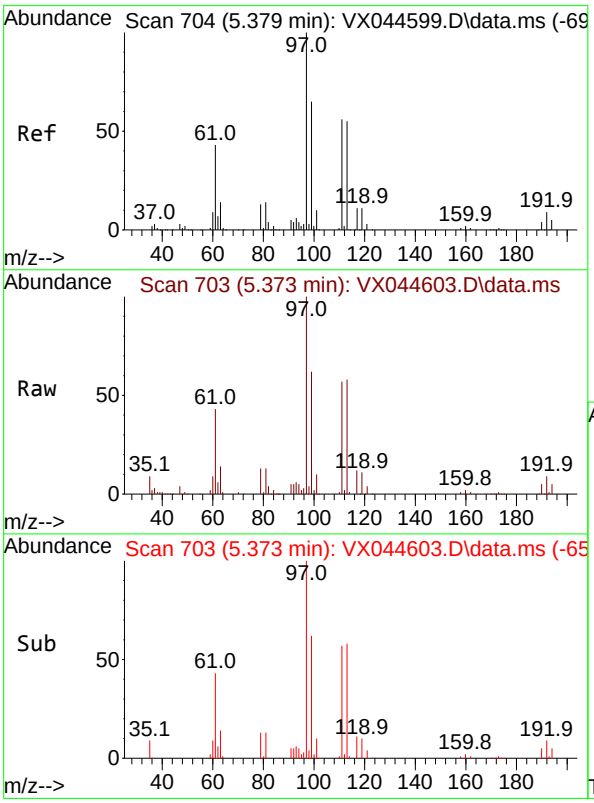
#31
Cyclohexane
Concen: 49.840 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Tgt Ion: 56 Resp: 172928

Ion	Ratio	Lower	Upper
56	100		
69	31.2	22.2	33.4
84	91.2	66.6	100.0

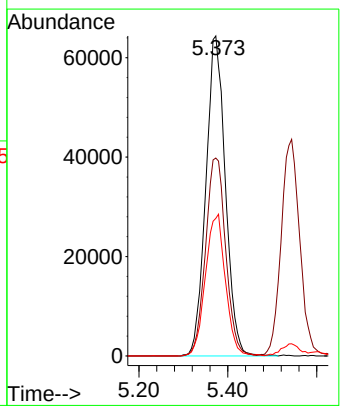


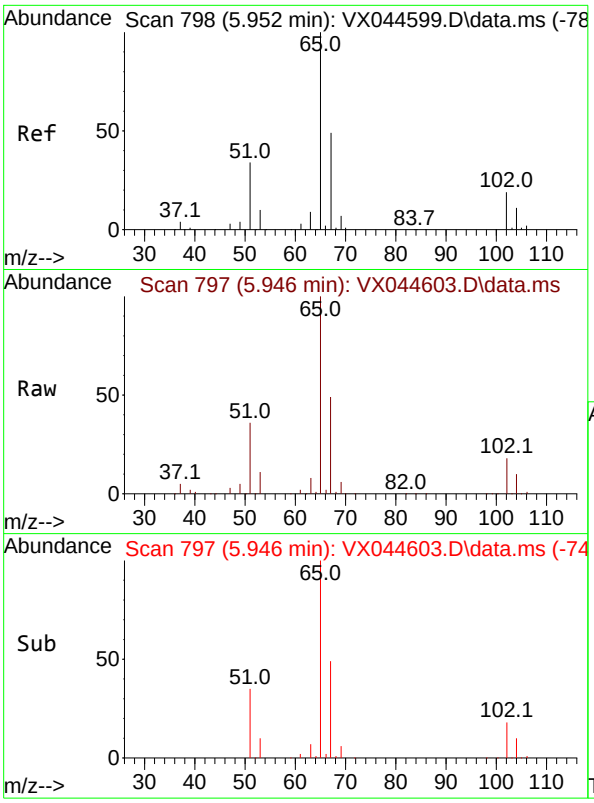


#32
1,1,1-Trichloroethane
Concen: 51.235 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.006 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 97 Resp: 196434

Ion	Ratio	Lower	Upper
97	100		
99	64.1	52.1	78.1
61	45.6	36.8	55.2



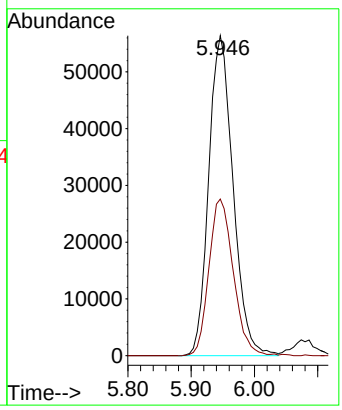


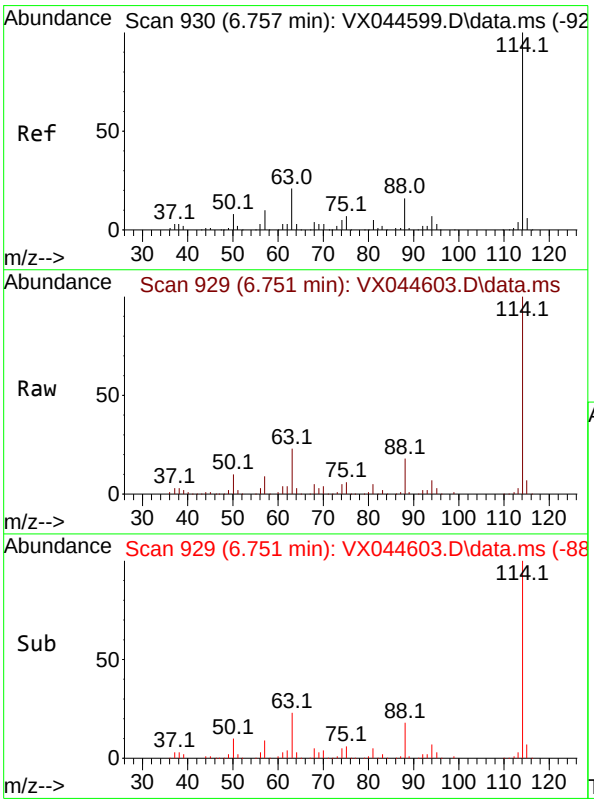
#33
1,2-Dichloroethane-d4
Concen: 49.246 ug/l
RT: 5.946 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Tgt Ion: 65 Resp: 150566

Ion	Ratio	Lower	Upper
65	100		
67	49.1	0.0	99.0

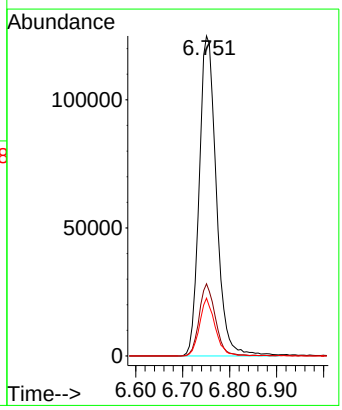


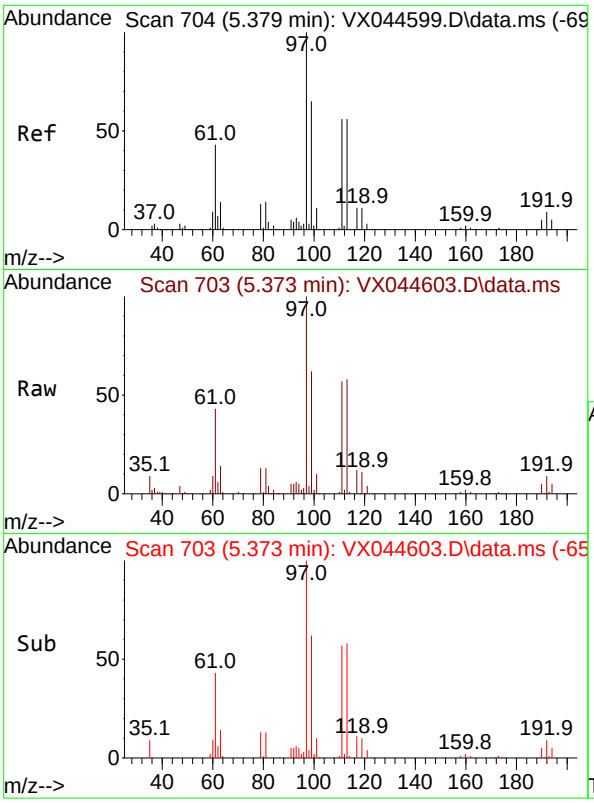


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. -0.006 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion:114 Resp: 316532

Ion	Ratio	Lower	Upper
114	100		
63	22.6	0.0	42.6
88	18.1	0.0	32.6



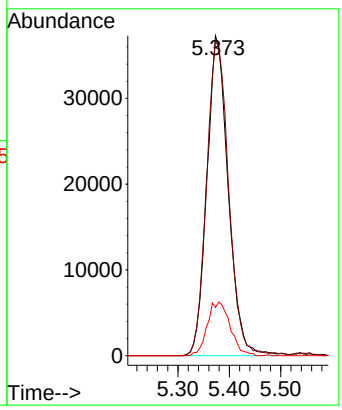


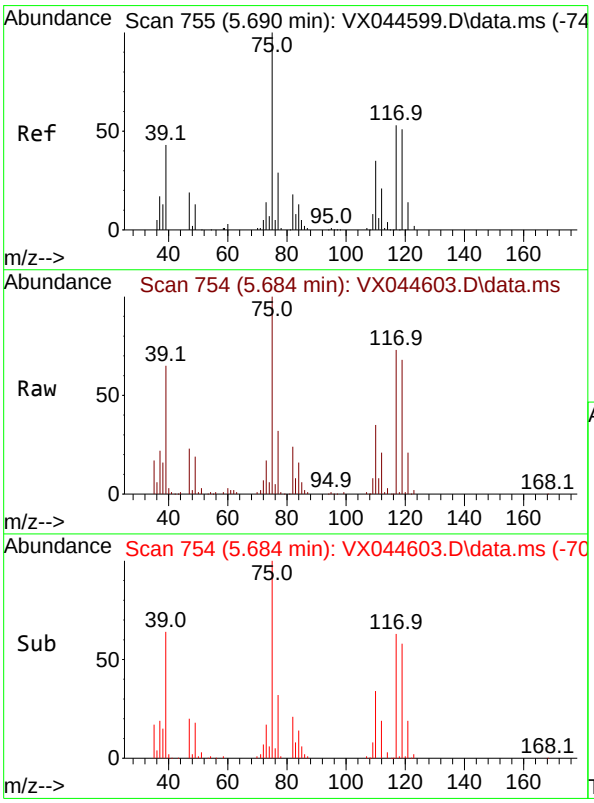
#35
Dibromofluoromethane
Concen: 49.600 ug/l
RT: 5.373 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Tgt Ion:113 Resp: 107656

Ion	Ratio	Lower	Upper
113	100		
111	101.7	83.3	124.9
192	18.0	14.3	21.5

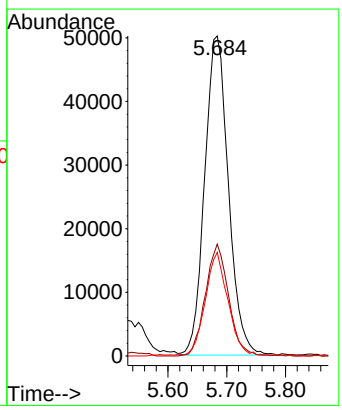


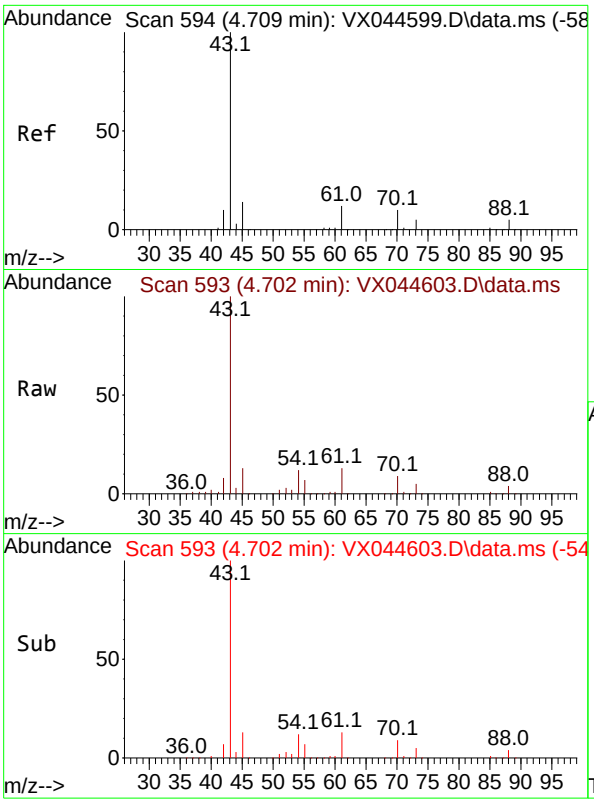


#36
1,1-Dichloropropene
Concen: 50.296 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 75 Resp: 141163

Ion	Ratio	Lower	Upper
75	100		
110	34.1	17.3	51.9
77	31.3	24.7	37.1



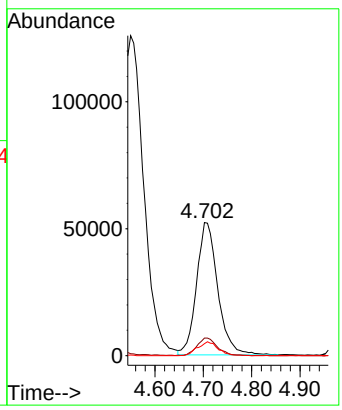


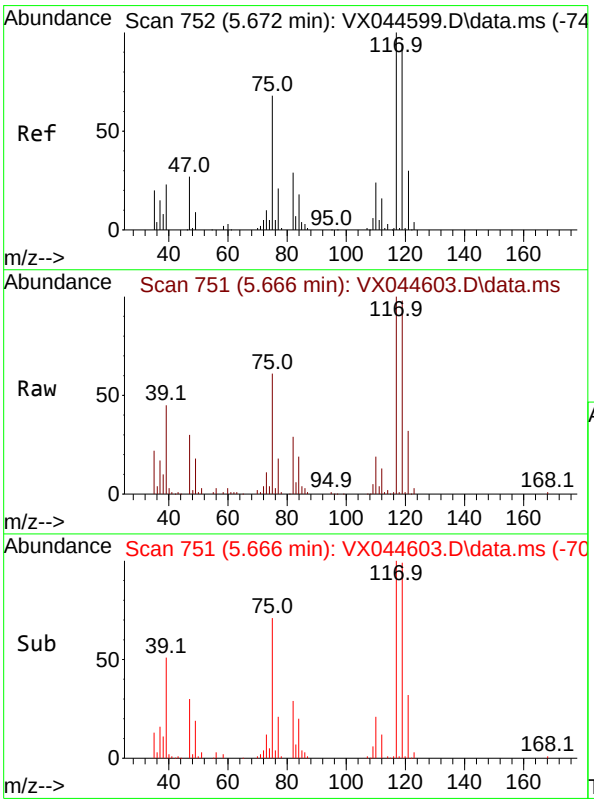
#37
Ethyl Acetate
Concen: 55.503 ug/l
RT: 4.702 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Tgt Ion: 43 Resp: 159354

Ion	Ratio	Lower	Upper
43	100		
61	12.9	9.9	14.9
70	10.2	8.0	12.0

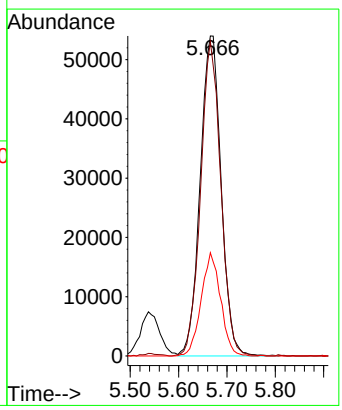


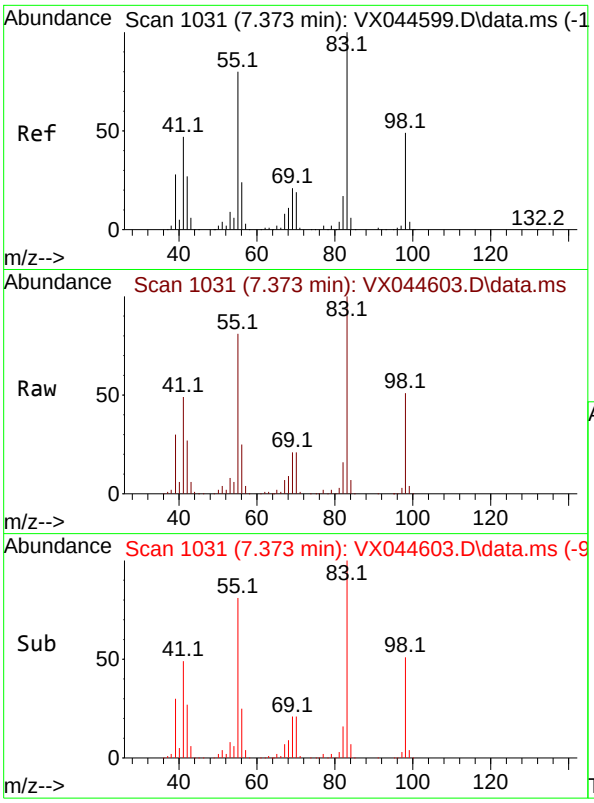


#38
Carbon Tetrachloride
Concen: 52.106 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion:117 Resp: 162259

Ion	Ratio	Lower	Upper
117	100		
119	97.9	74.5	111.7
121	32.3	24.1	36.1



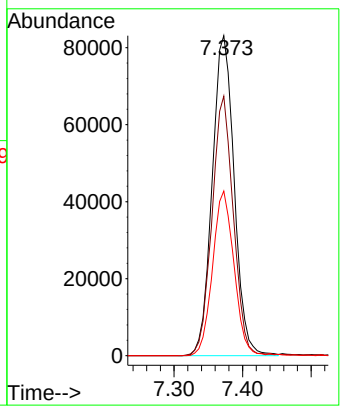


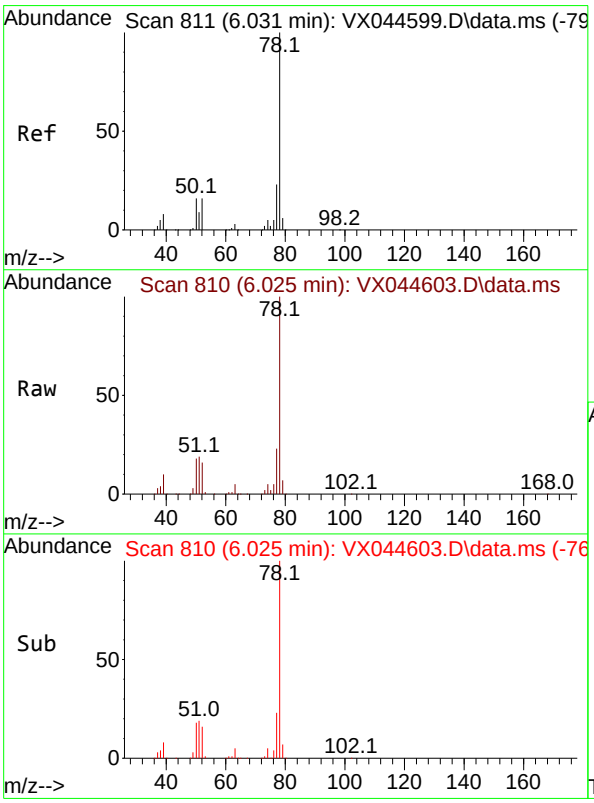
#39
Methylcyclohexane
Concen: 51.612 ug/l
RT: 7.373 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Tgt Ion: 83 Resp: 184835

Ion	Ratio	Lower	Upper
83	100		
55	81.1	64.1	96.1
98	51.5	38.9	58.3

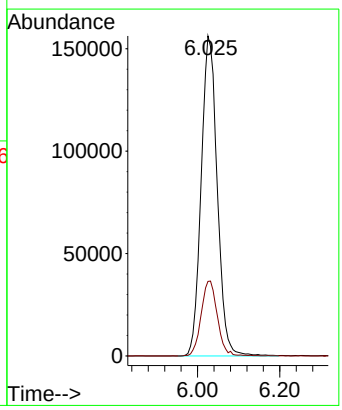


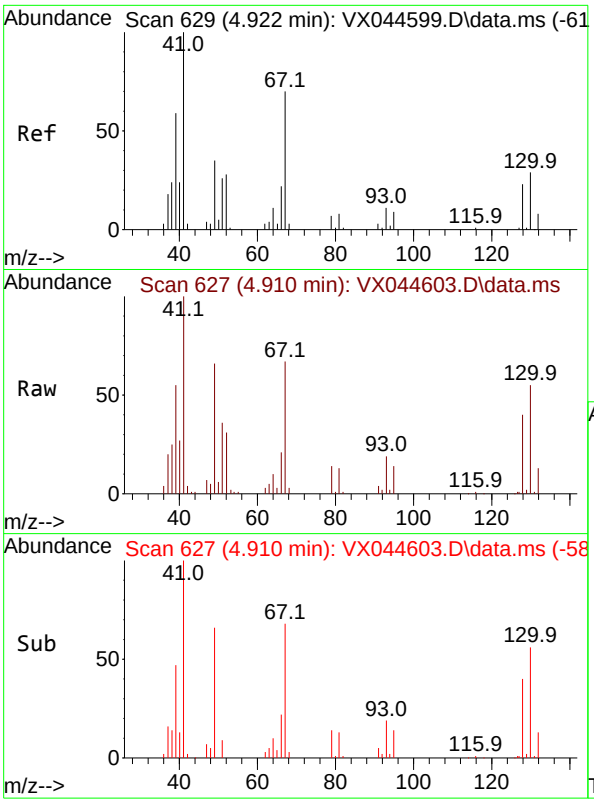


#40
Benzene
Concen: 47.956 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.006 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 78 Resp: 423783

Ion	Ratio	Lower	Upper
78	100		
77	23.3	18.8	28.2



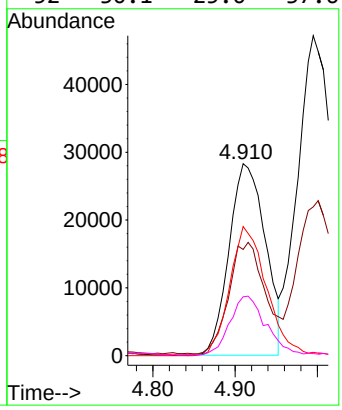


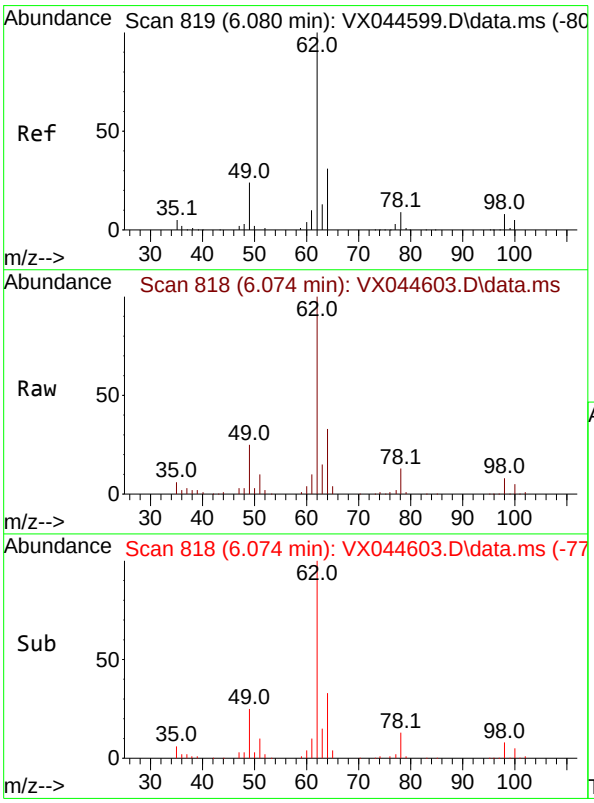
#41
Methacrylonitrile
Concen: 56.367 ug/l
RT: 4.910 min Scan# 6
Delta R.T. -0.012 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Tgt Ion: 41 Resp: 86868

Ion	Ratio	Lower	Upper
41	100		
39	59.4	47.0	70.4
67	68.9	57.4	86.2
52	30.1	25.0	37.6

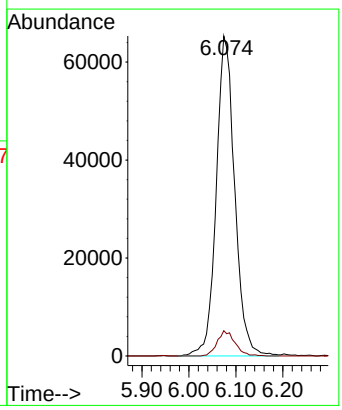


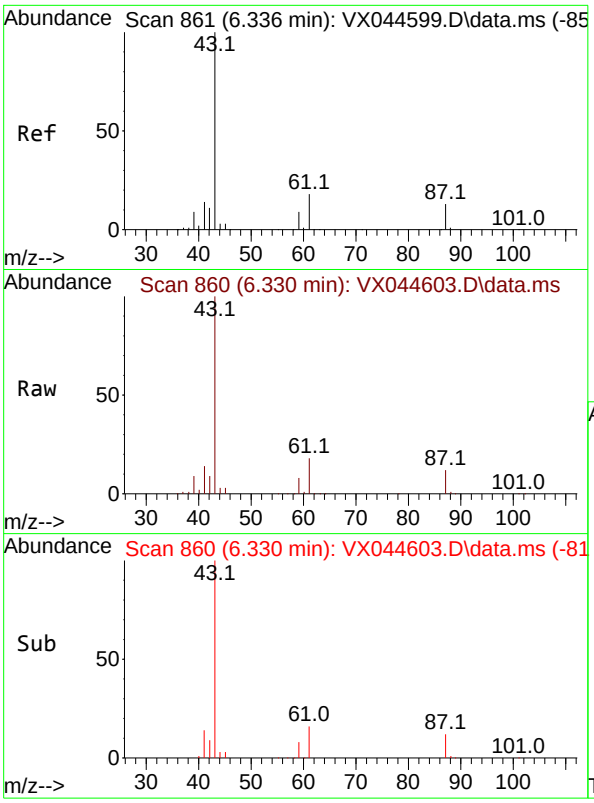


#42
1,2-Dichloroethane
Concen: 51.677 ug/l
RT: 6.074 min Scan# 818
Delta R.T. -0.006 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 62 Resp: 178591

Ion	Ratio	Lower	Upper
62	100		
98	7.6	0.0	15.8



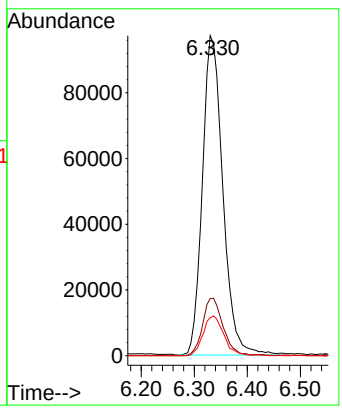


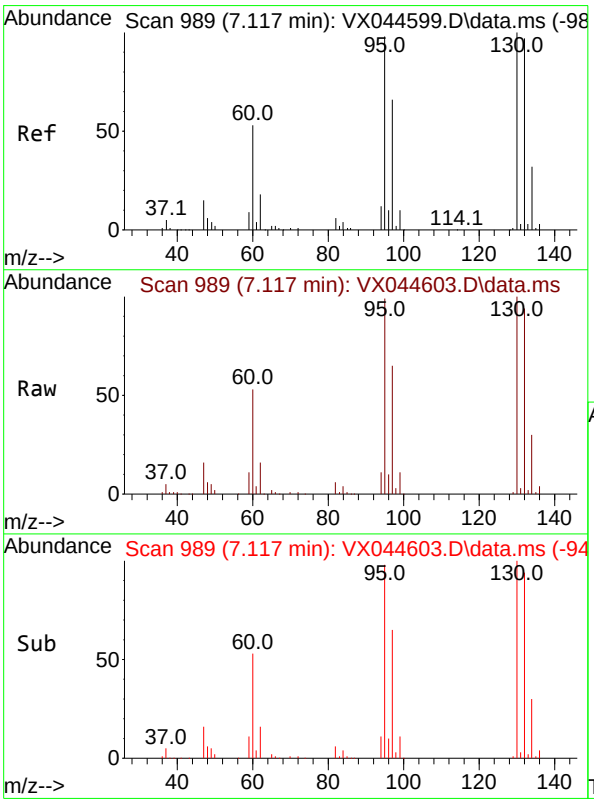
#43
Isopropyl Acetate
Concen: 55.077 ug/l
RT: 6.330 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Tgt Ion: 43 Resp: 260884

Ion	Ratio	Lower	Upper
43	100		
61	17.8	14.5	21.7
87	12.6	10.1	15.1

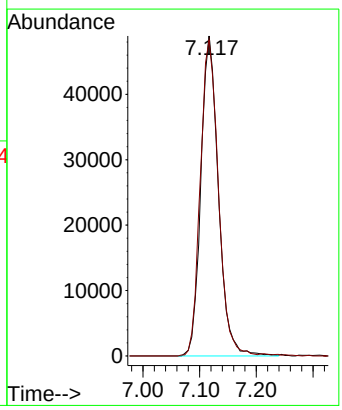


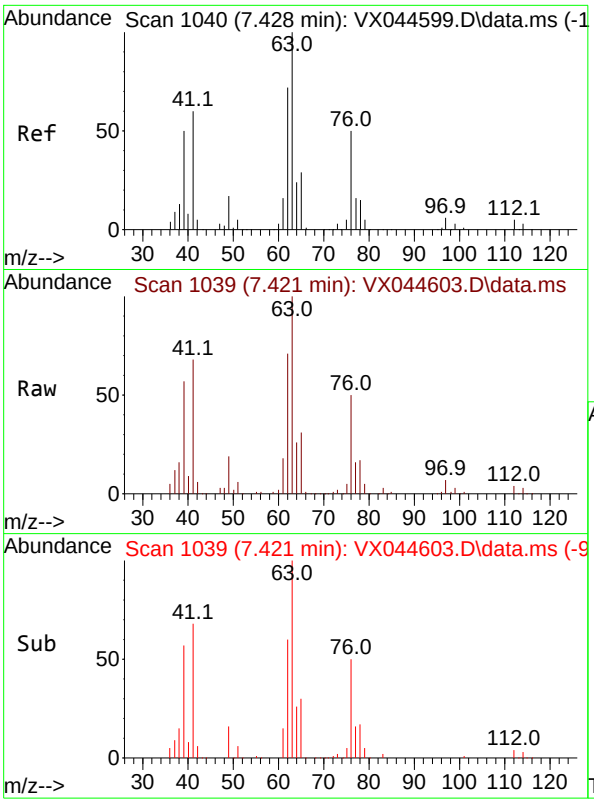


#44
Trichloroethene
Concen: 46.528 ug/l
RT: 7.117 min Scan# 989
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion:130 Resp: 105105

Ion	Ratio	Lower	Upper
130	100		
95	98.8	0.0	195.6



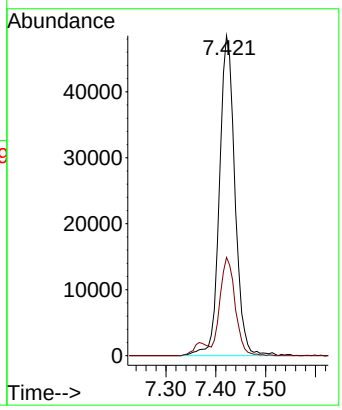


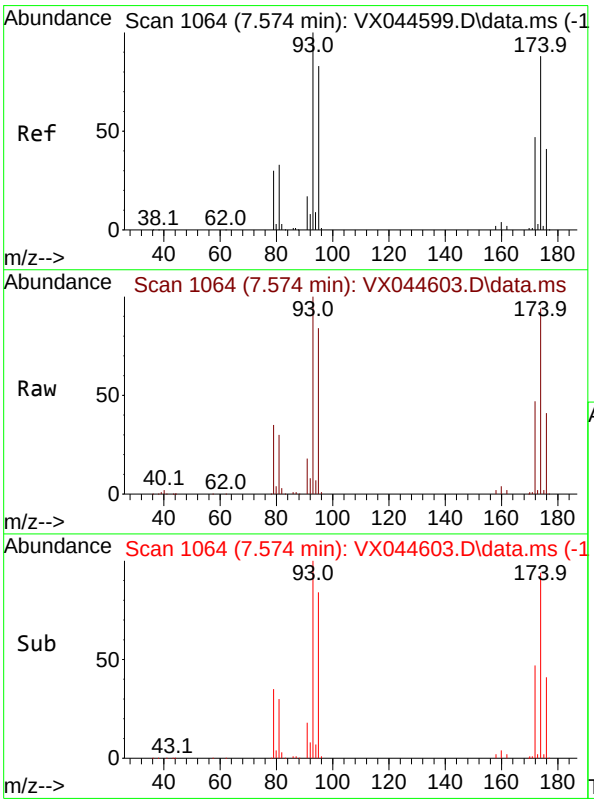
#45
1,2-Dichloropropane
Concen: 48.692 ug/l
RT: 7.421 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Tgt Ion: 63 Resp: 104909

Ion	Ratio	Lower	Upper
63	100		
65	30.7	23.0	34.4

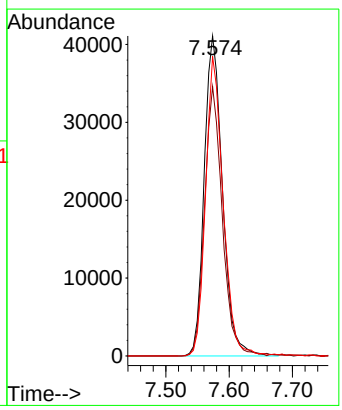


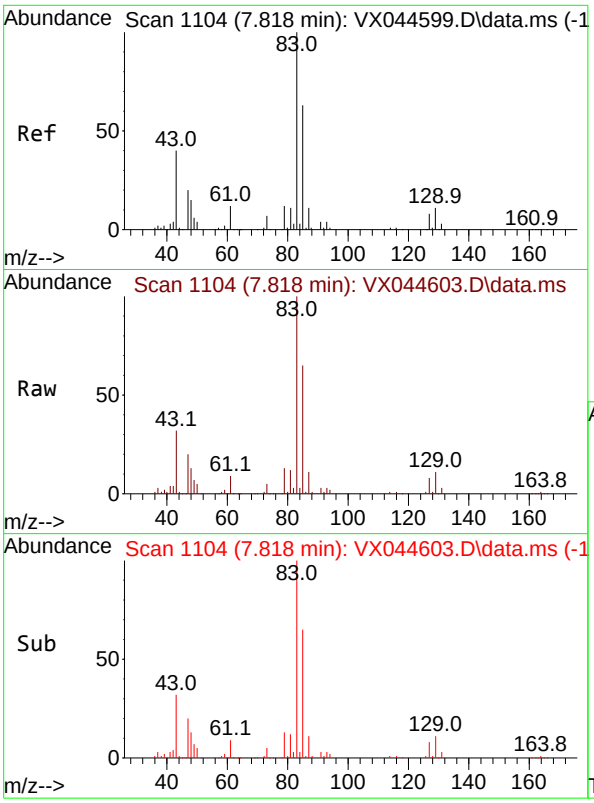


#46
Dibromomethane
Concen: 49.332 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 93 Resp: 82661

Ion	Ratio	Lower	Upper
93	100		
95	81.7	65.8	98.6
174	89.8	73.4	110.0



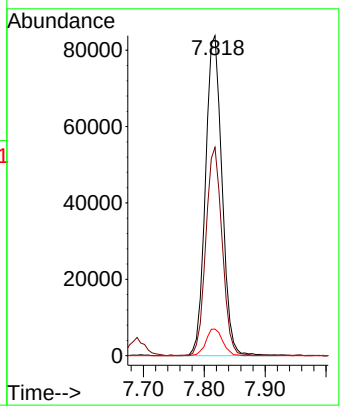


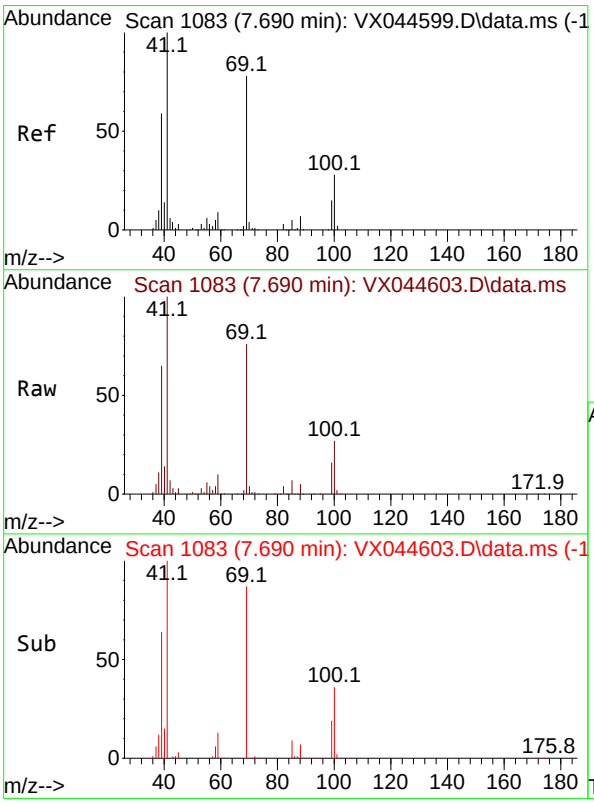
#47
Bromodichloromethane
Concen: 51.813 ug/l
RT: 7.818 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Tgt Ion: 83 Resp: 157989

Ion	Ratio	Lower	Upper
83	100		
85	65.0	50.4	75.6
127	8.3	6.2	9.4

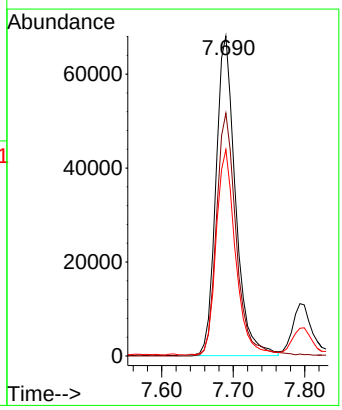


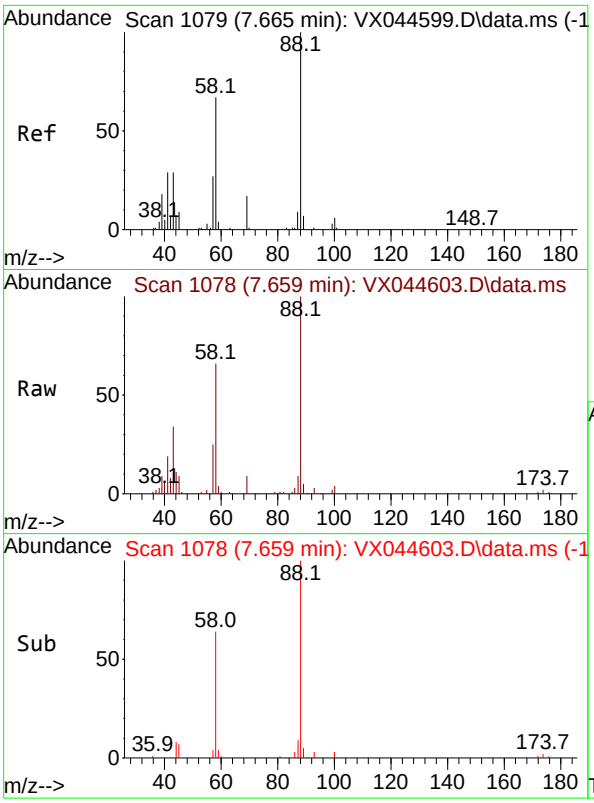


#48
Methyl methacrylate
Concen: 57.212 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 41 Resp: 129253

Ion	Ratio	Lower	Upper
41	100		
69	76.9	62.9	94.3
39	63.6	48.9	73.3



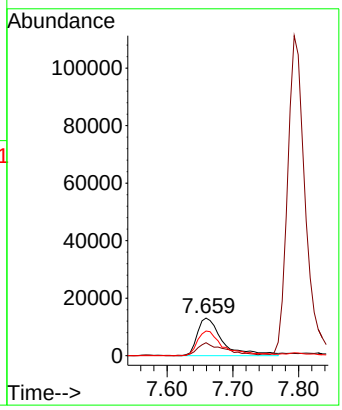


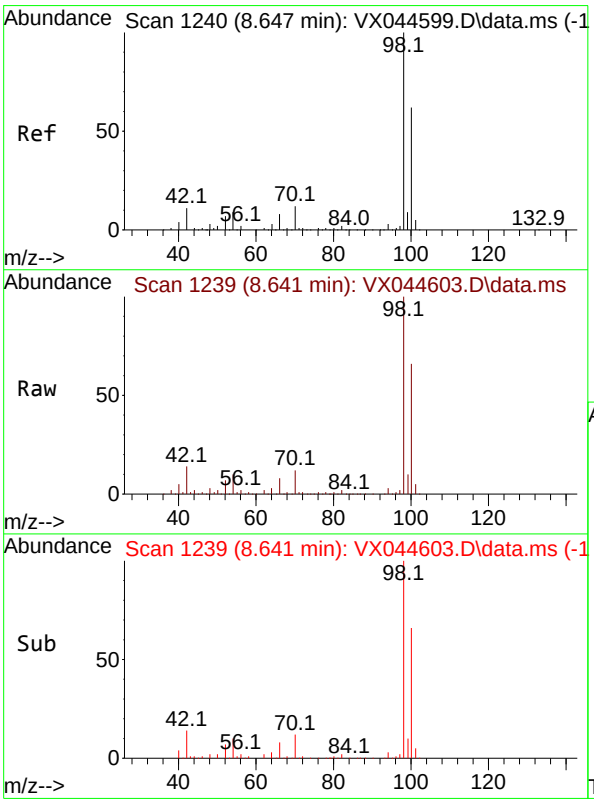
#49
1,4-Dioxane
Concen: 1054.109 ug/l
RT: 7.659 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Tgt Ion: 88 Resp: 34995

Ion	Ratio	Lower	Upper
88	100		
43	37.0	29.5	44.3
58	67.0	56.3	84.5

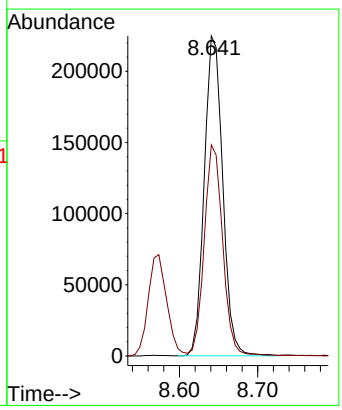


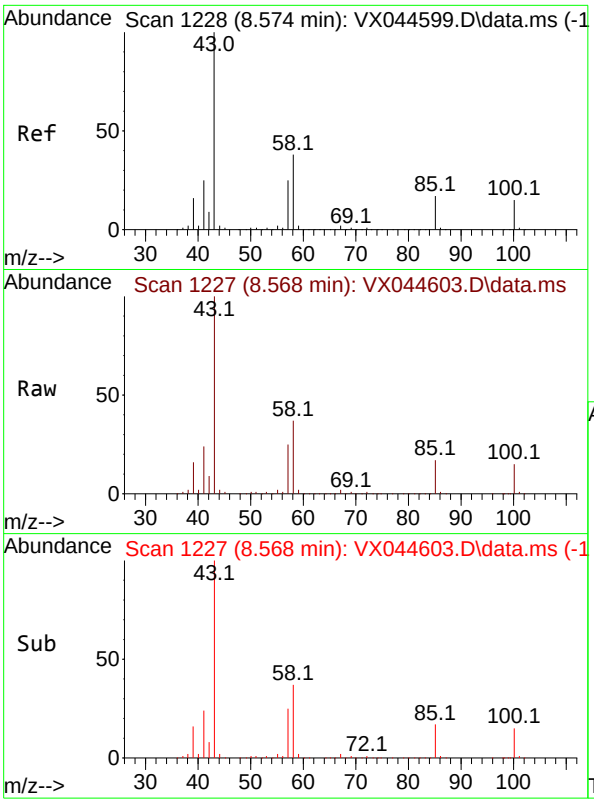


#50
Toluene-d8
Concen: 49.585 ug/l
RT: 8.641 min Scan# 1239
Delta R.T. -0.006 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 98 Resp: 367621

Ion	Ratio	Lower	Upper
98	100		
100	65.9	52.5	78.7



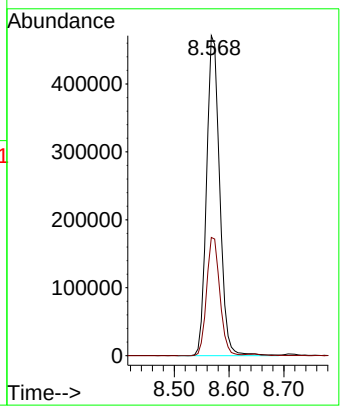


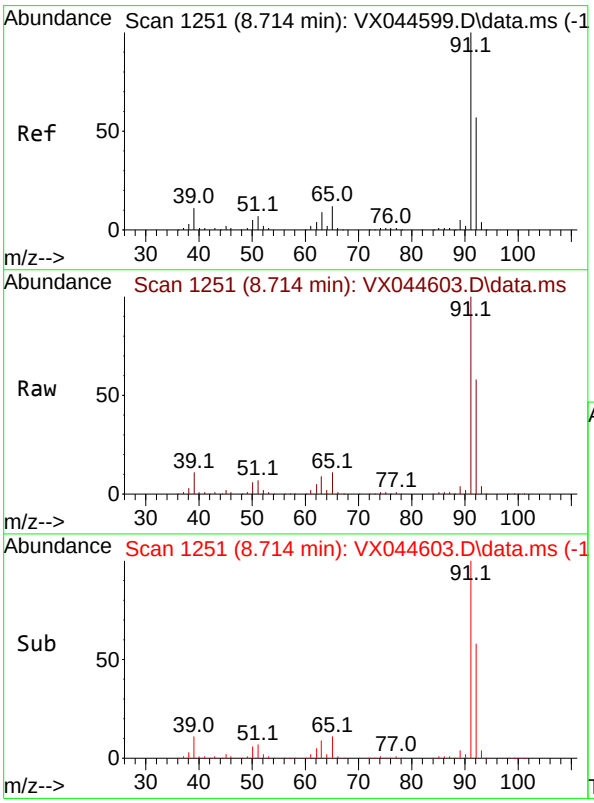
#51
4-Methyl-2-Pentanone
Concen: 282.088 ug/l
RT: 8.568 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Tgt Ion: 43 Resp: 781060

Ion	Ratio	Lower	Upper
43	100		
58	37.2	30.0	45.0

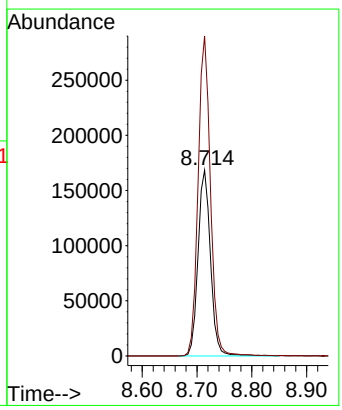


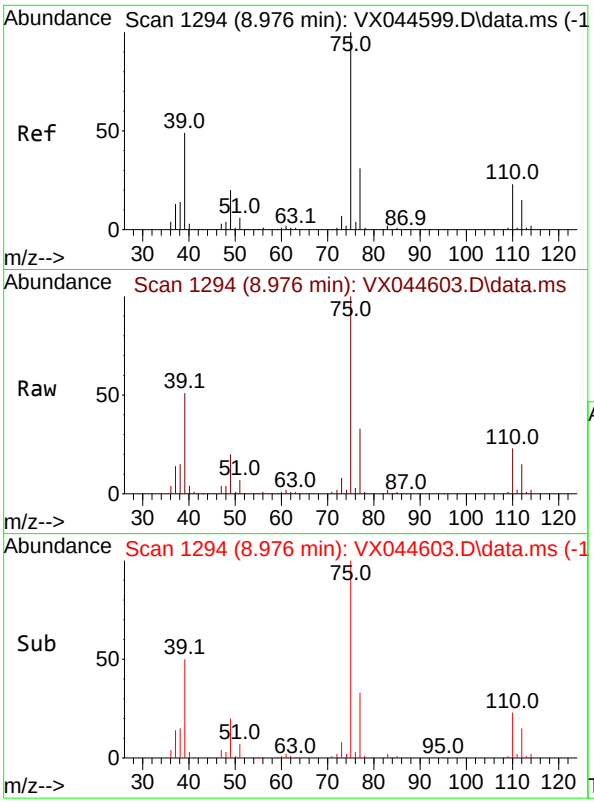


#52
Toluene
Concen: 49.893 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 92 Resp: 266026

Ion	Ratio	Lower	Upper
92	100		
91	170.3	140.6	210.8



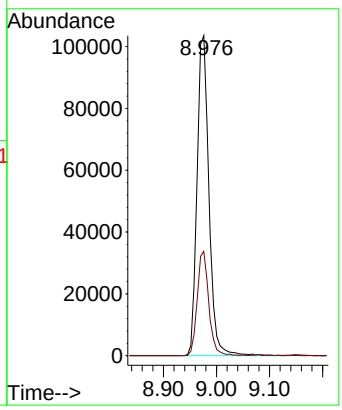


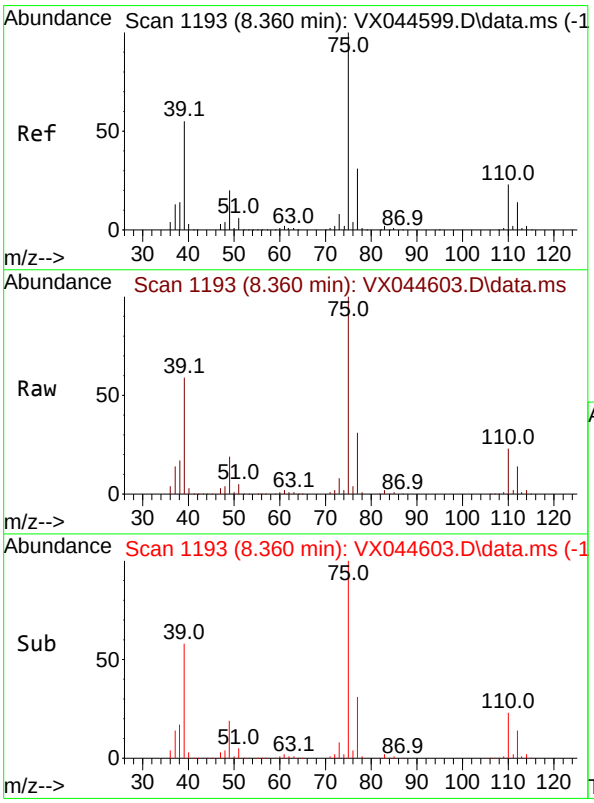
#53
t-1,3-Dichloropropene
Concen: 55.511 ug/l
RT: 8.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Tgt Ion: 75 Resp: 161793

Ion	Ratio	Lower	Upper
75	100		
77	32.6	24.8	37.2

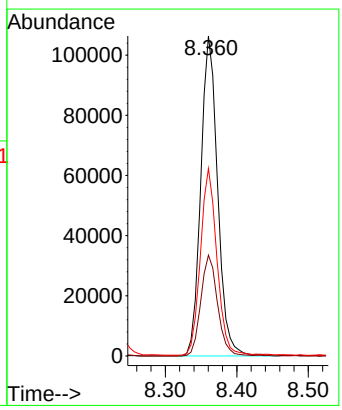


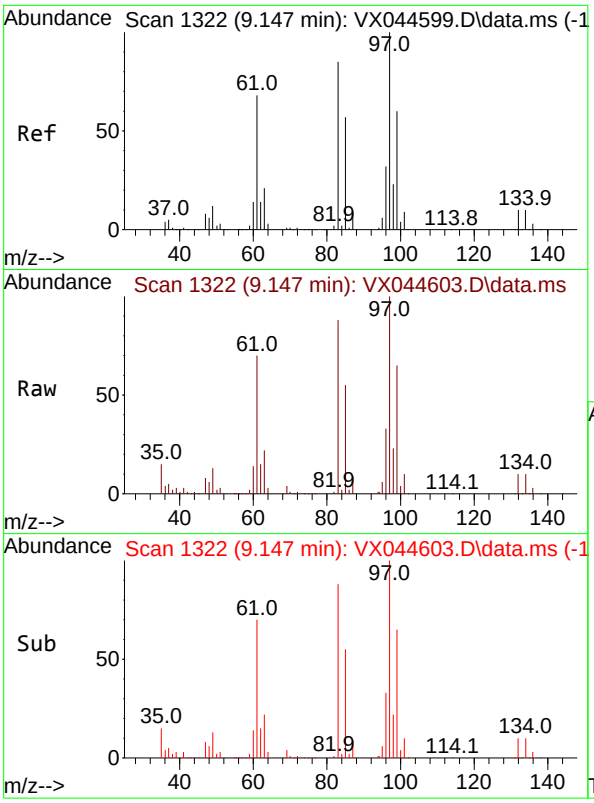


#54
cis-1,3-Dichloropropene
Concen: 53.210 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 75 Resp: 174299

Ion	Ratio	Lower	Upper
75	100		
77	31.5	24.5	36.7
39	58.3	44.3	66.5



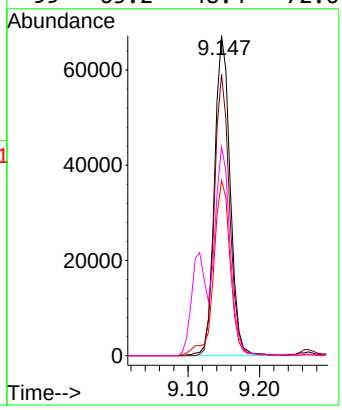


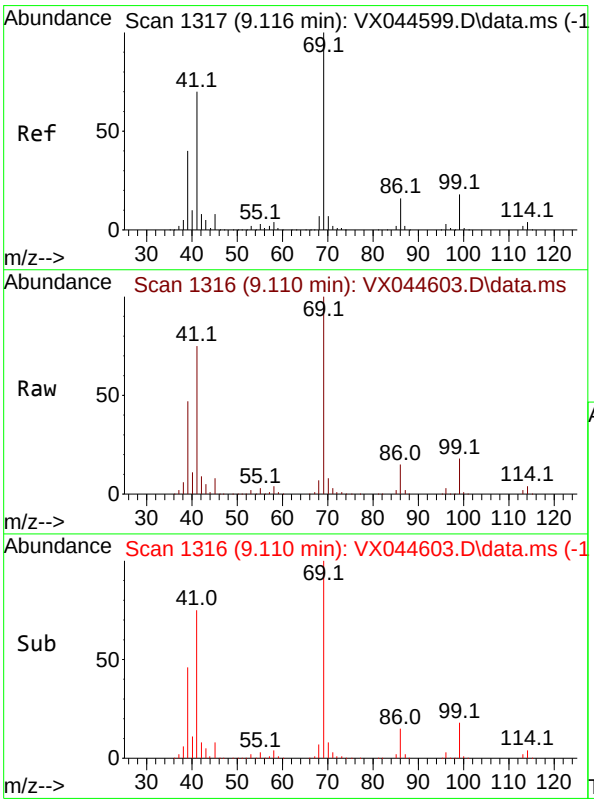
#55
1,1,2-Trichloroethane
Concen: 48.736 ug/l
RT: 9.147 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Tgt Ion: 97 Resp: 101873

Ion	Ratio	Lower	Upper
97	100		
83	88.0	68.0	102.0
85	54.8	45.4	68.0
99	65.2	48.4	72.6

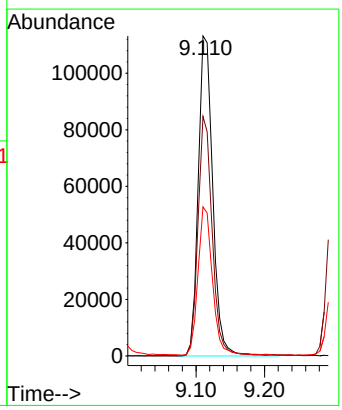


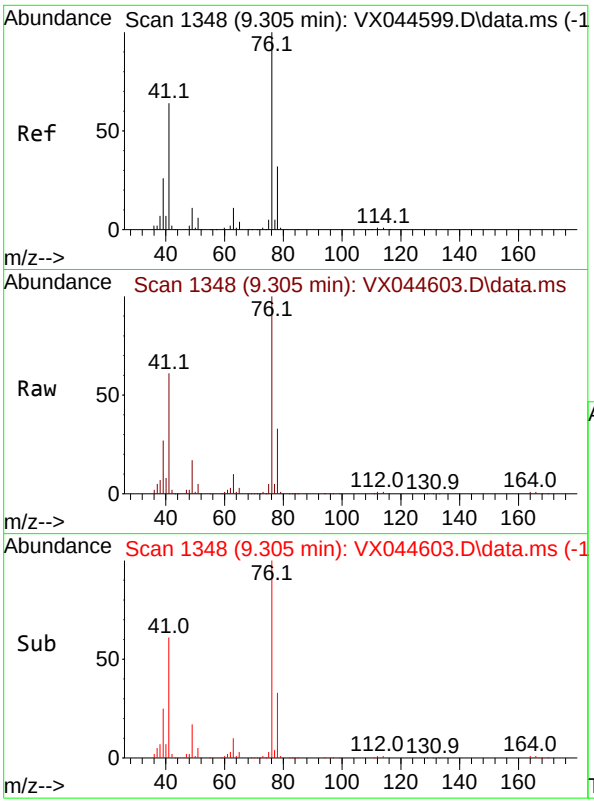


#56
Ethyl methacrylate
Concen: 54.925 ug/l
RT: 9.110 min Scan# 1316
Delta R.T. -0.006 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 69 Resp: 166968

Ion	Ratio	Lower	Upper
69	100		
41	73.2	57.7	86.5
39	46.2	33.7	50.5



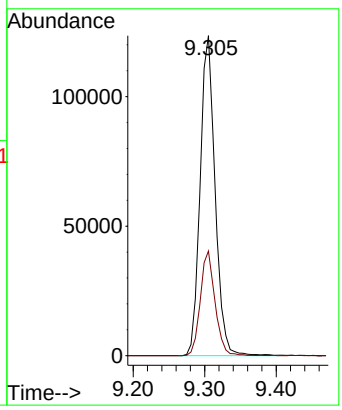


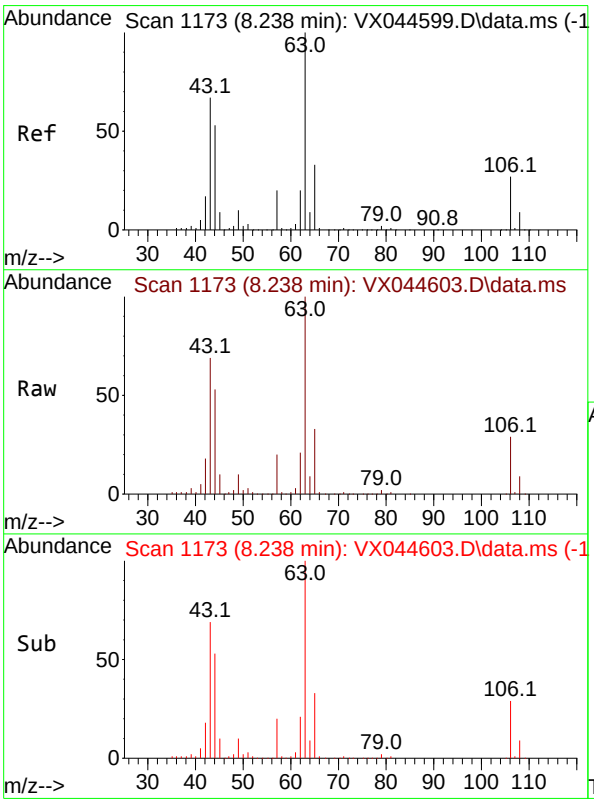
#57
1,3-Dichloropropane
Concen: 51.108 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Tgt Ion: 76 Resp: 179394

Ion	Ratio	Lower	Upper
76	100		
78	32.2	25.8	38.8

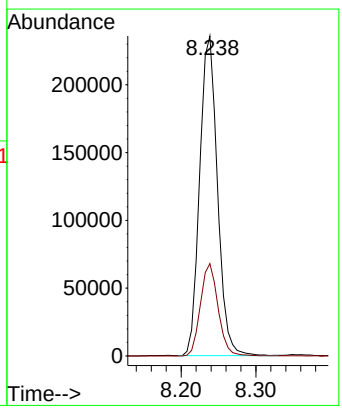


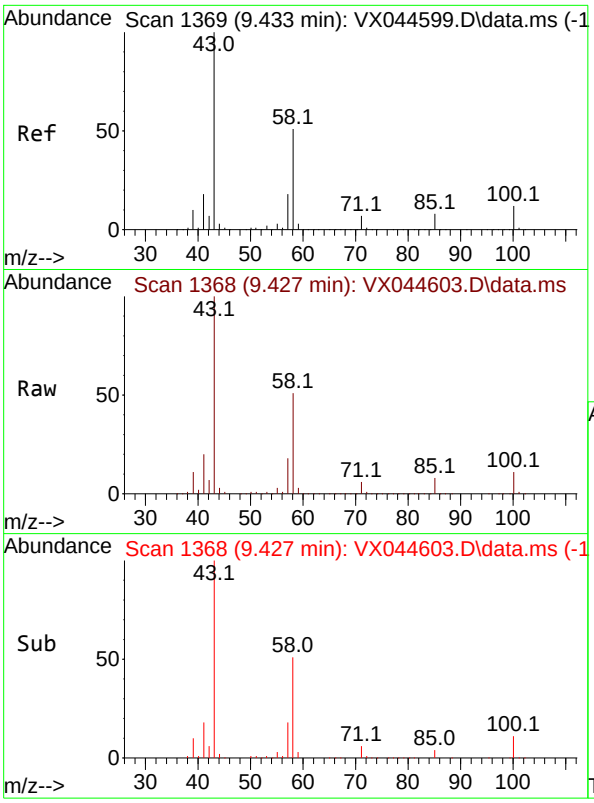


#58
2-Chloroethyl Vinyl ether
Concen: 258.112 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 63 Resp: 388986

Ion	Ratio	Lower	Upper
63	100		
106	28.7	22.4	33.6



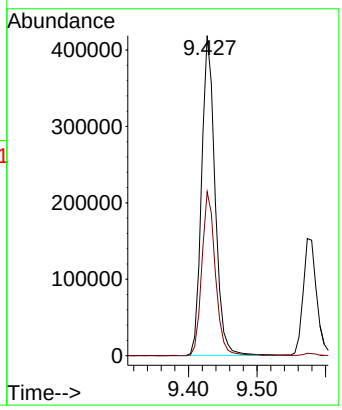


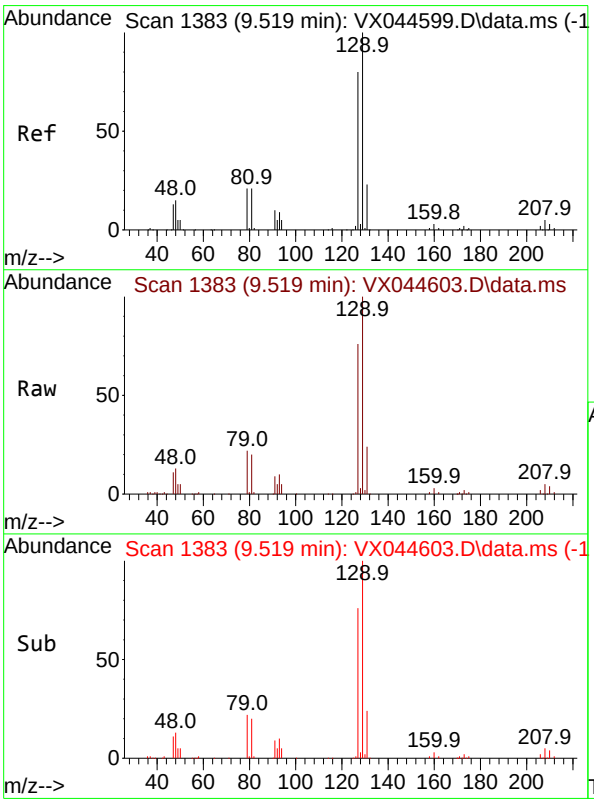
#59
2-Hexanone
Concen: 292.615 ug/l
RT: 9.427 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Tgt Ion: 43 Resp: 572995

Ion	Ratio	Lower	Upper
43	100		
58	51.5	25.4	76.4

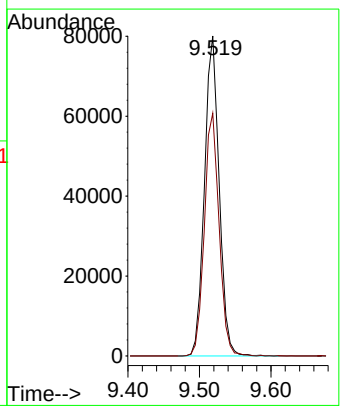


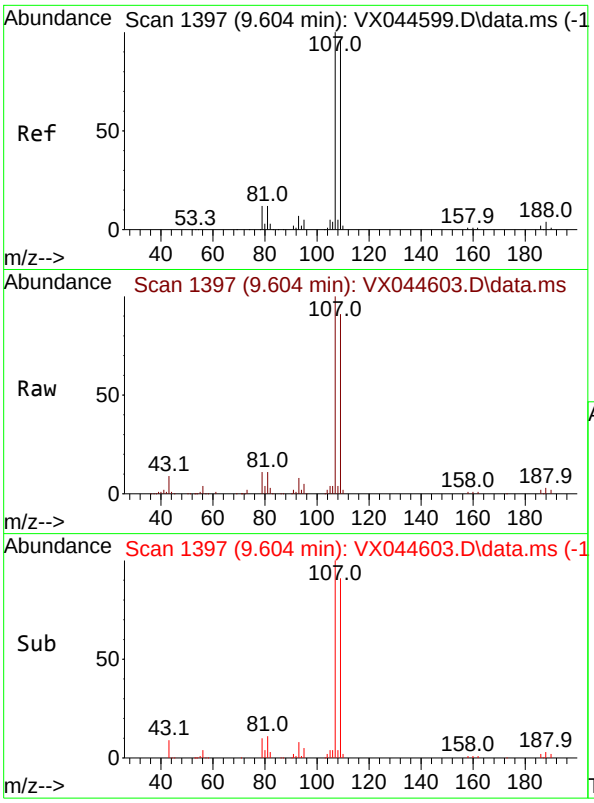


#60
Dibromochloromethane
Concen: 54.749 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion:129 Resp: 114110

Ion	Ratio	Lower	Upper
129	100		
127	76.2	38.9	116.7



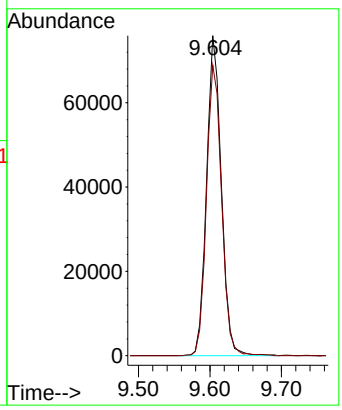


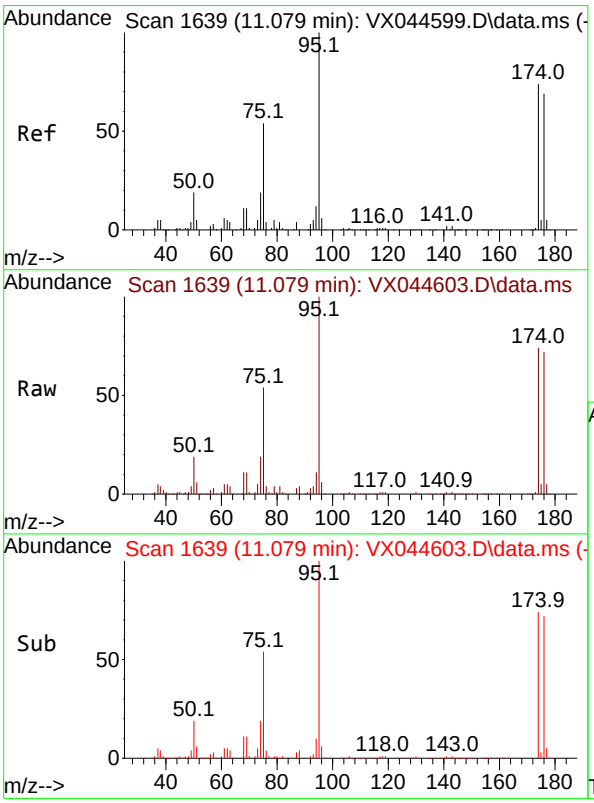
#61
1,2-Dibromoethane
Concen: 51.516 ug/l
RT: 9.604 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Tgt Ion:107 Resp: 108755

Ion	Ratio	Lower	Upper
107	100		
109	93.2	76.7	115.1

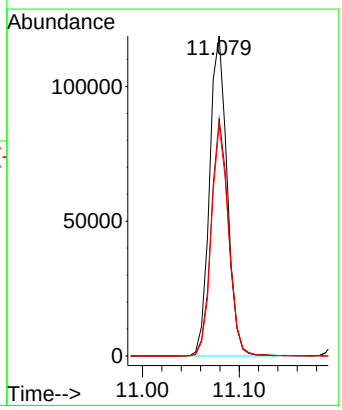


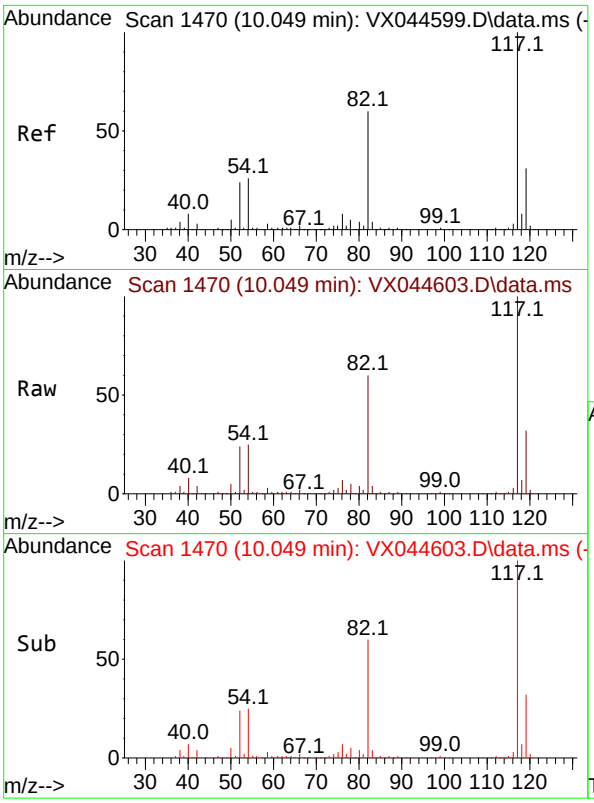


#62
4-Bromofluorobenzene
Concen: 57.528 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 95 Resp: 150542

Ion	Ratio	Lower	Upper
95	100		
174	72.6	0.0	148.8
176	70.6	0.0	139.8



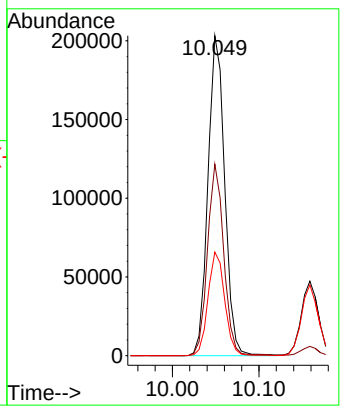


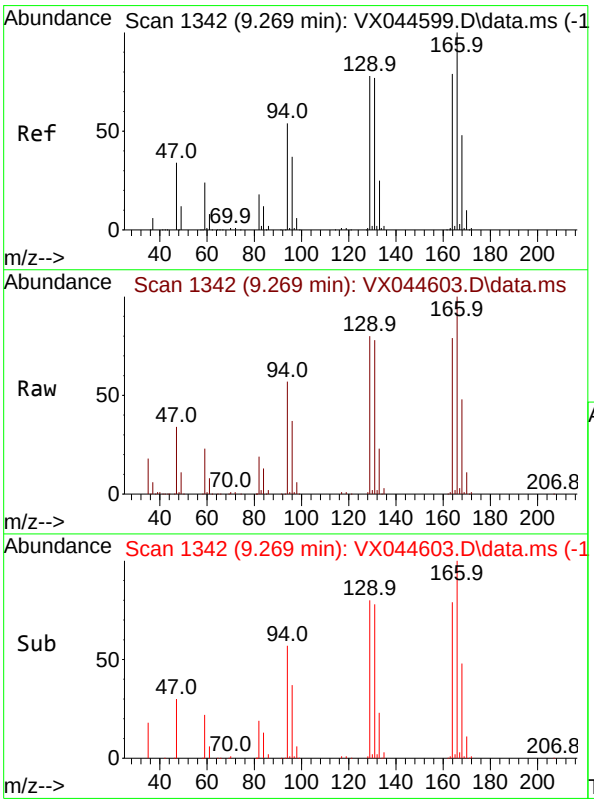
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Tgt Ion:117 Resp: 272375

Ion	Ratio	Lower	Upper
117	100		
82	59.9	47.8	71.6
119	32.4	25.0	37.6

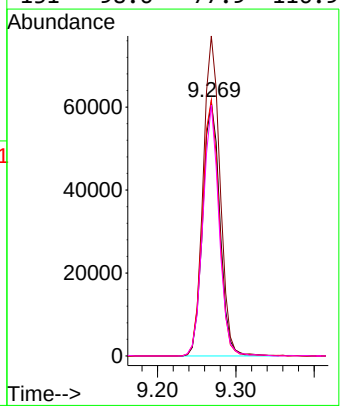


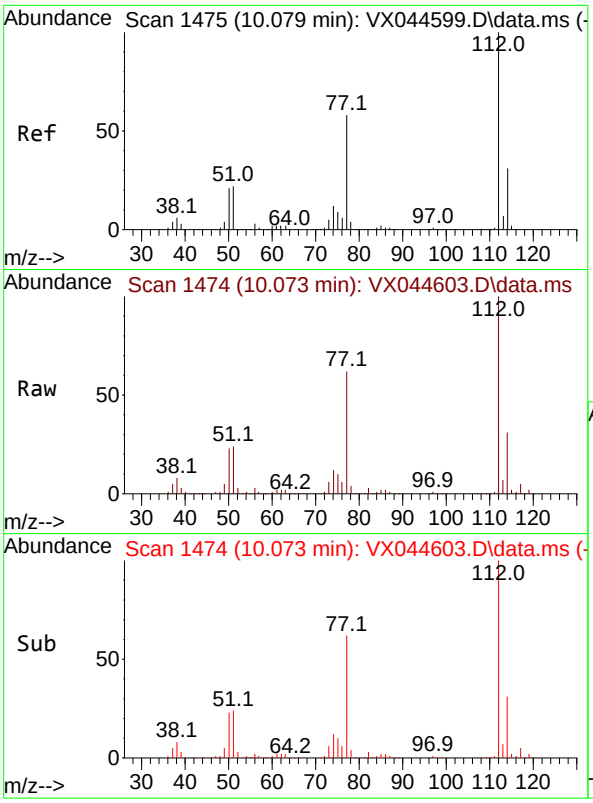


#64
Tetrachloroethene
Concen: 48.035 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion:164 Resp: 92504

Ion	Ratio	Lower	Upper
164	100		
166	125.9	101.5	152.3
129	100.8	78.9	118.3
131	98.6	77.9	116.9



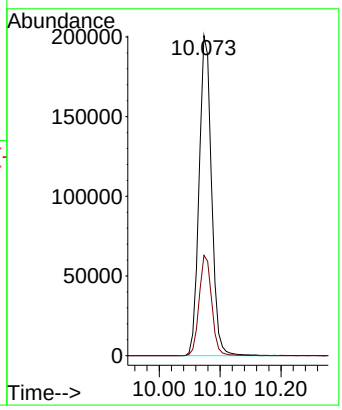


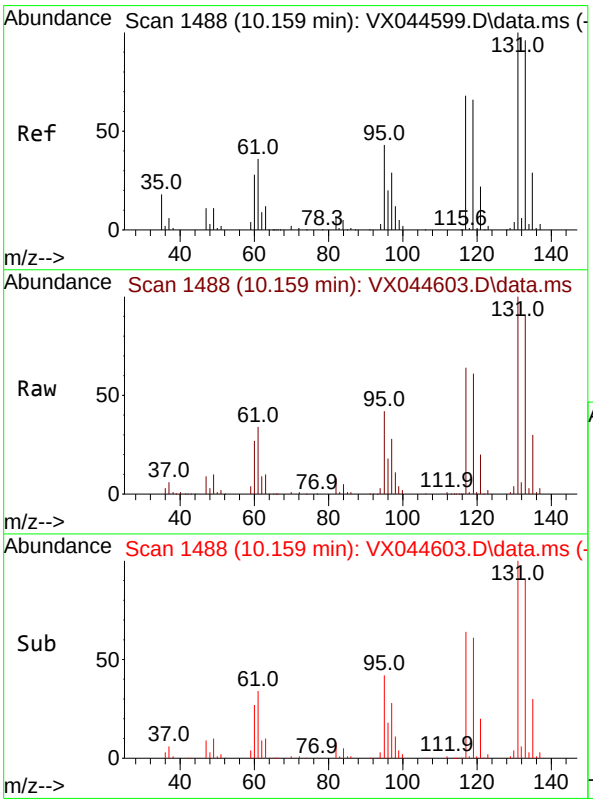
#65
Chlorobenzene
Concen: 49.177 ug/l
RT: 10.073 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Tgt Ion:112 Resp: 284281

Ion	Ratio	Lower	Upper
112	100		
114	31.3	25.0	37.4

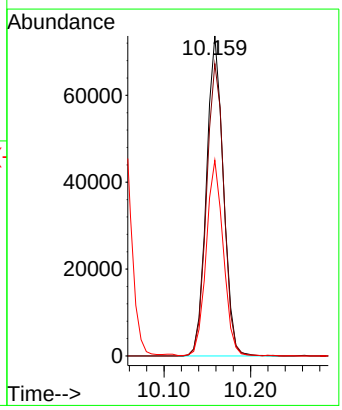


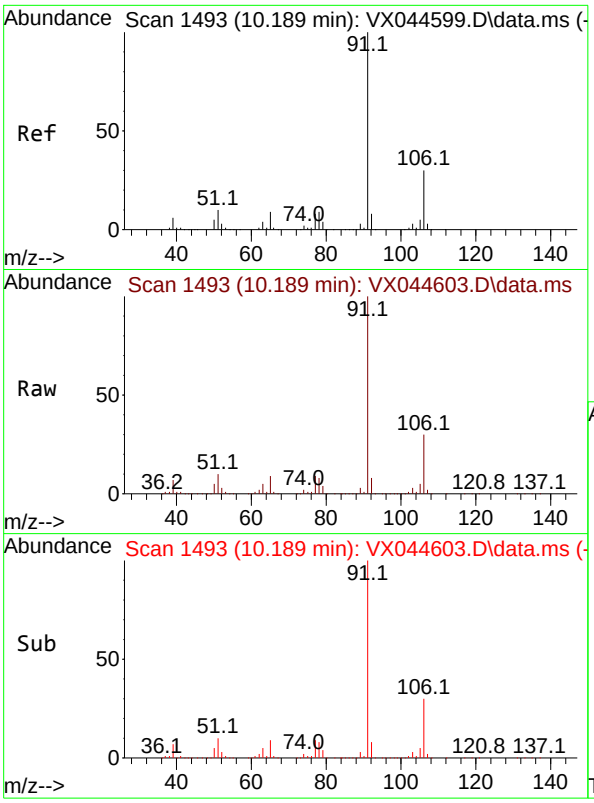


#66
1,1,1,2-Tetrachloroethane
Concen: 51.911 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion:131 Resp: 99668

Ion	Ratio	Lower	Upper
131	100		
133	94.3	48.0	144.0
119	62.0	32.8	98.4



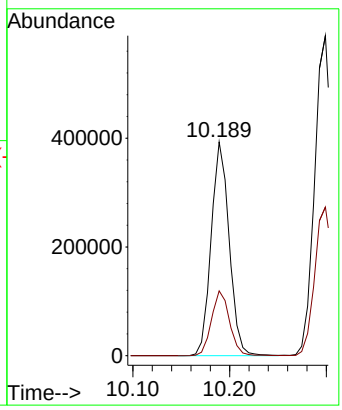


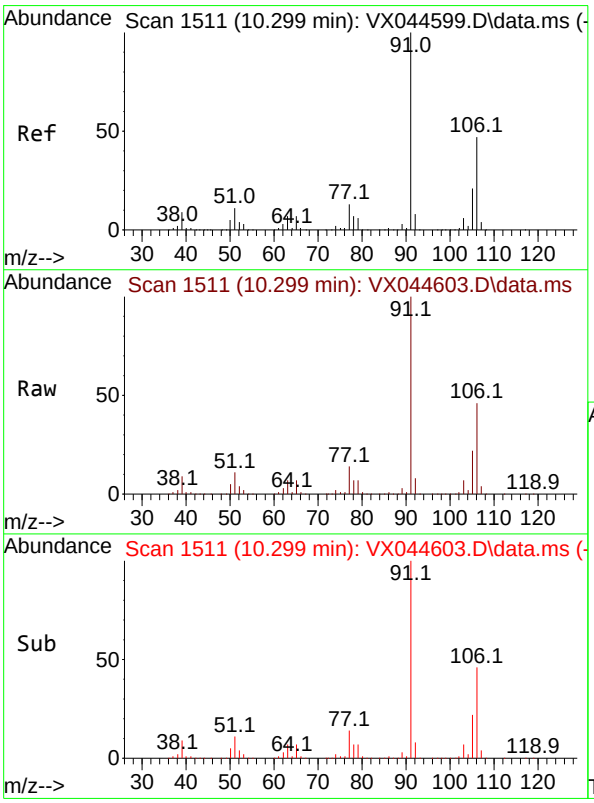
#67
Ethyl Benzene
Concen: 51.215 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Tgt Ion: 91 Resp: 508409

Ion	Ratio	Lower	Upper
91	100		
106	30.3	23.8	35.8

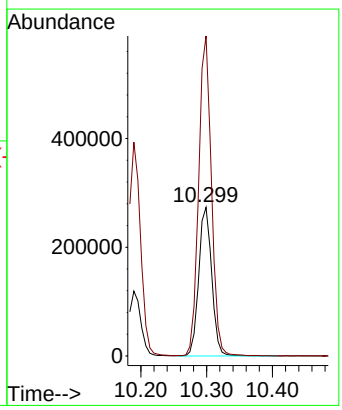


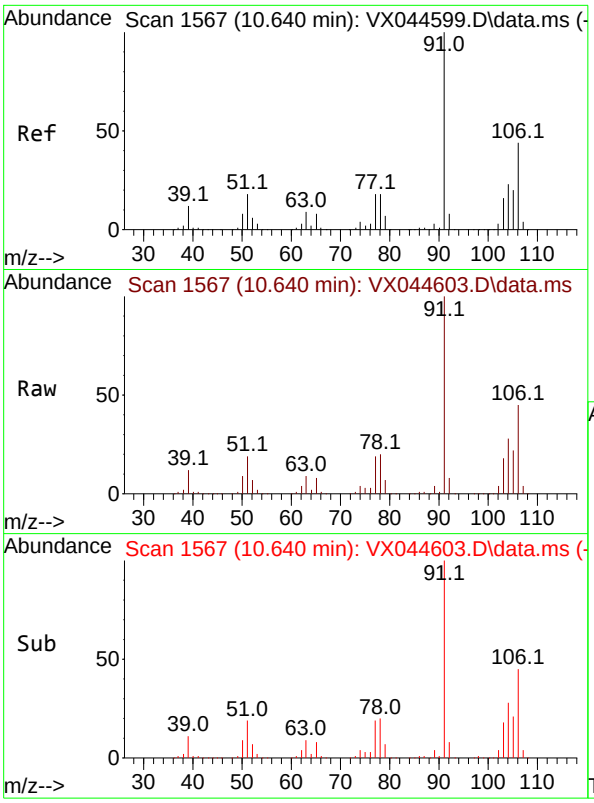


#68
m/p-Xylenes
Concen: 102.808 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion:106 Resp: 375022

Ion	Ratio	Lower	Upper
106	100		
91	211.8	170.4	255.6



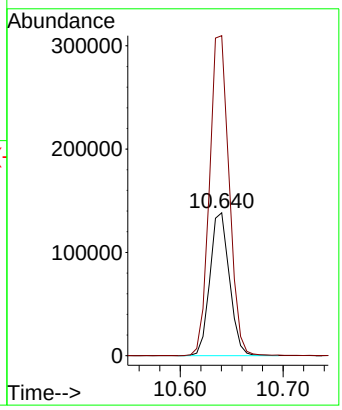


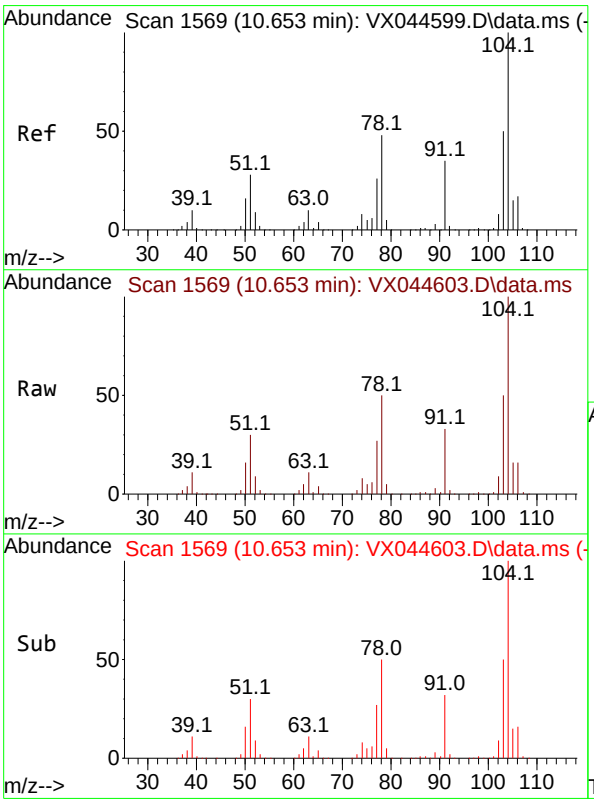
#69
o-Xylene
Concen: 49.559 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Tgt Ion:106 Resp: 182474

Ion	Ratio	Lower	Upper
106	100		
91	225.6	112.3	336.8

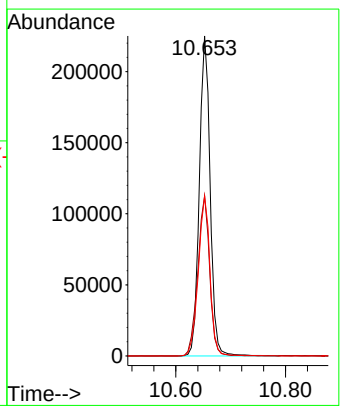


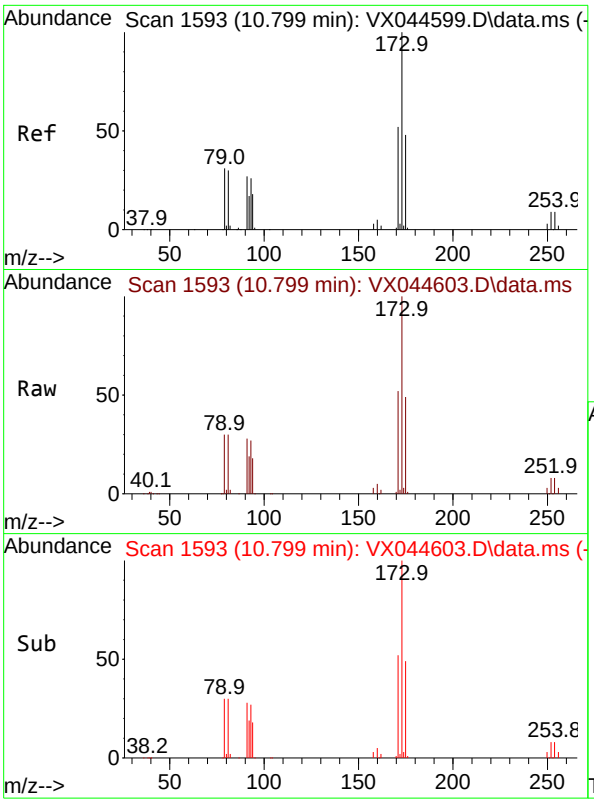


#70
Styrene
Concen: 52.345 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion:104 Resp: 308264

Ion	Ratio	Lower	Upper
104	100		
78	55.3	44.0	66.0
103	54.1	43.8	65.6



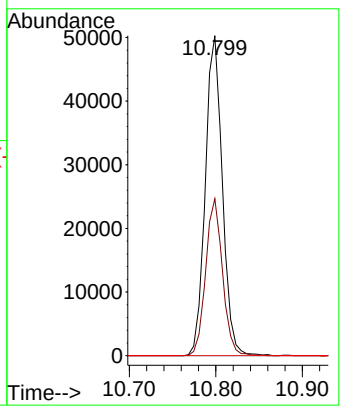


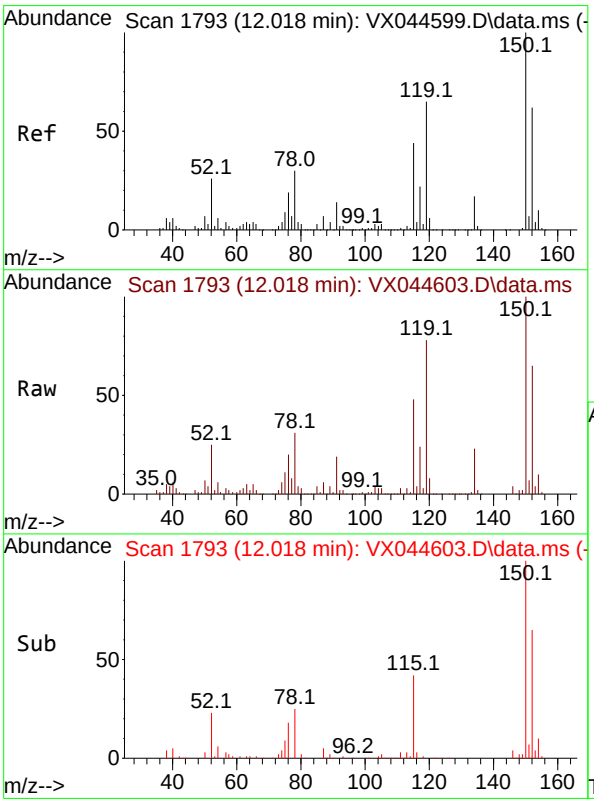
#71
Bromoform
Concen: 51.015 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Tgt Ion:173 Resp: 68778

Ion	Ratio	Lower	Upper
173	100		
175	48.4	24.6	73.8
254	0.0	0.0	0.0

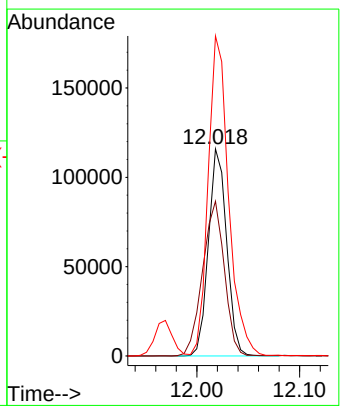


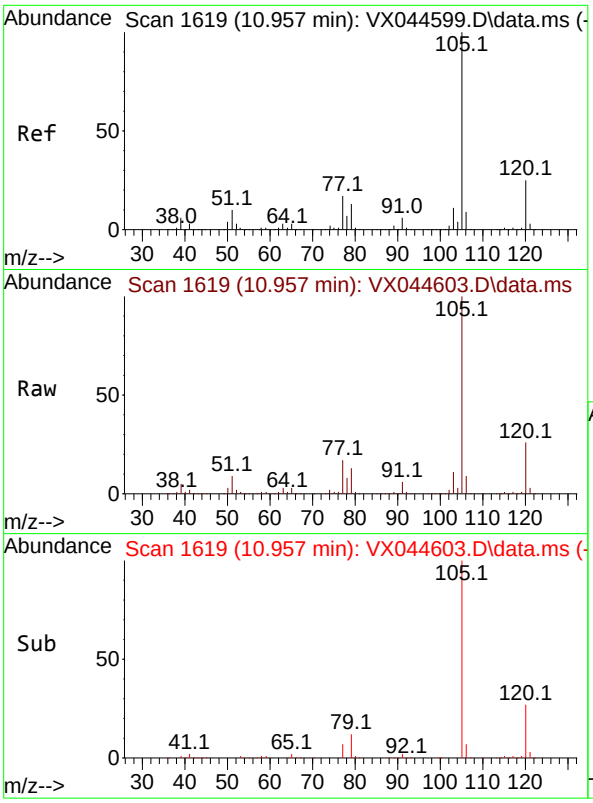


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion:152 Resp: 142987

Ion	Ratio	Lower	Upper
152	100		
115	89.3	44.4	133.1
150	172.8	0.0	355.0



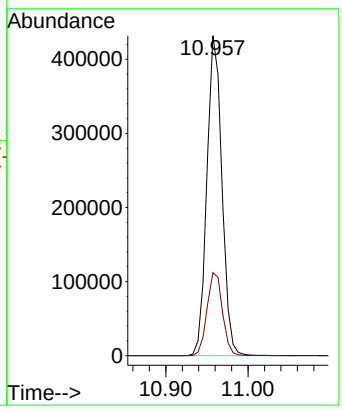


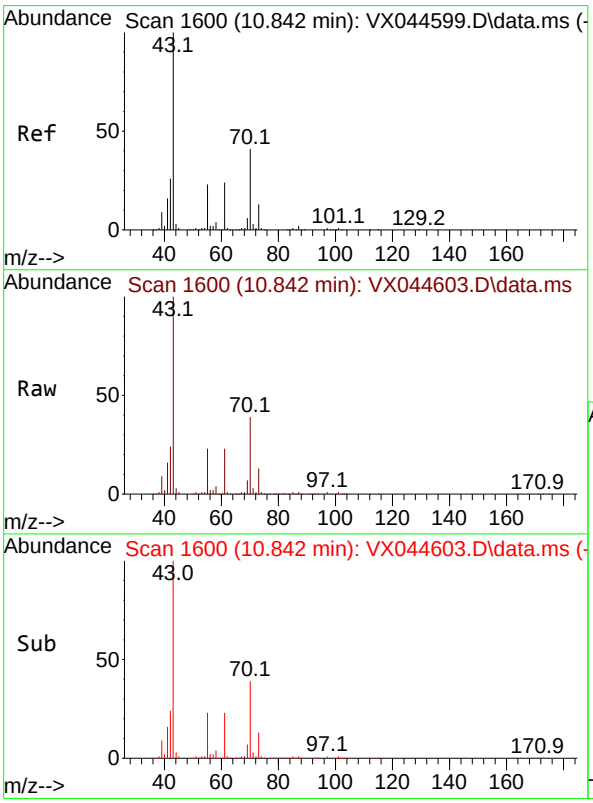
#73
Isopropylbenzene
Concen: 51.780 ug/l
RT: 10.957 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Tgt Ion:105 Resp: 548529

Ion	Ratio	Lower	Upper
105	100		
120	26.6	13.0	38.9

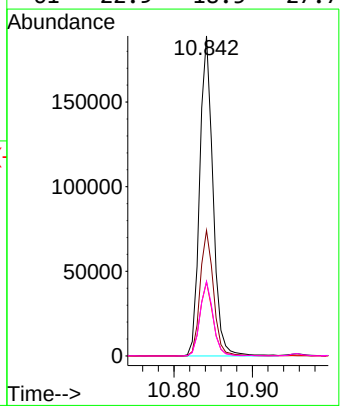


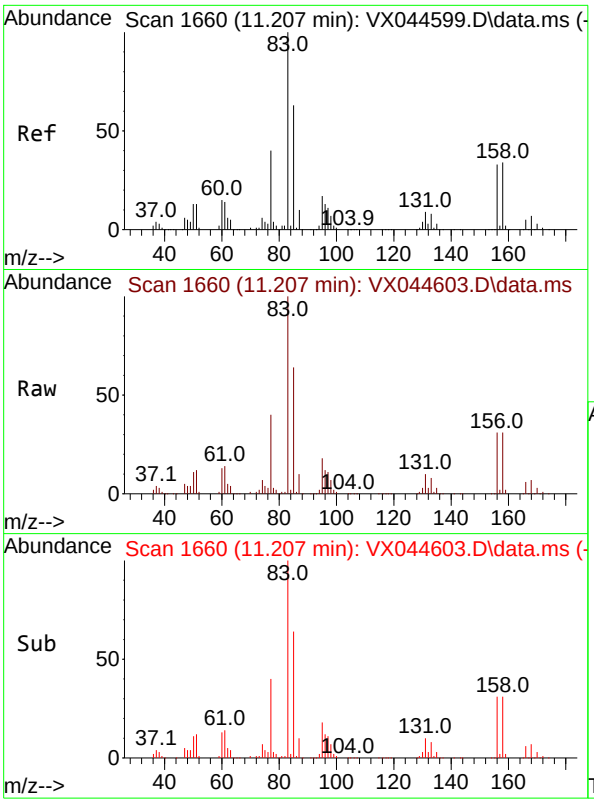


#74
N-amyl acetate
Concen: 51.742 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 43 Resp: 222407

Ion	Ratio	Lower	Upper
43	100		
70	39.3	32.9	49.3
55	23.1	19.0	28.6
61	22.9	18.5	27.7



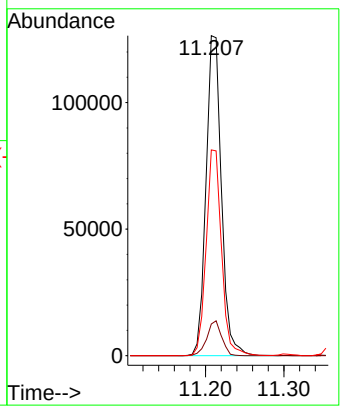


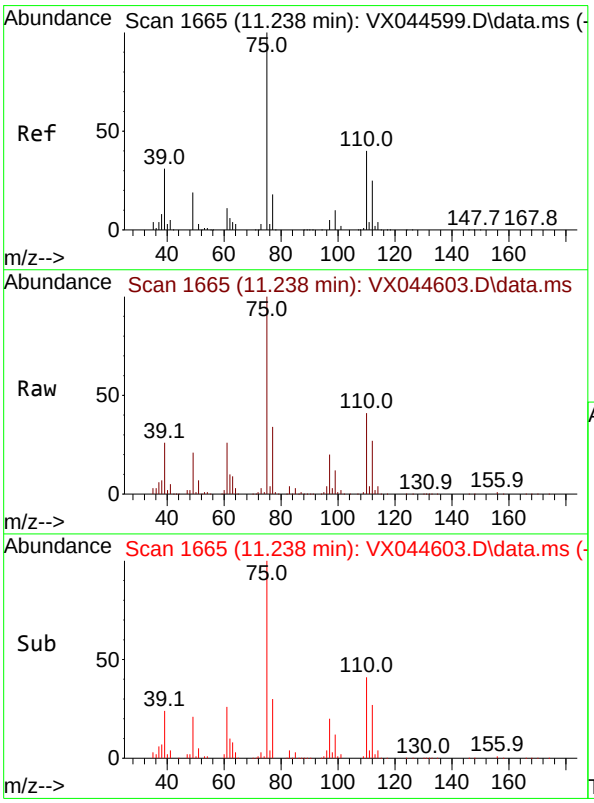
#75
1,1,2,2-Tetrachloroethane
Concen: 50.433 ug/l
RT: 11.207 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Tgt Ion: 83 Resp: 172209

Ion	Ratio	Lower	Upper
83	100		
131	10.5	5.0	15.0
85	64.1	31.9	95.5

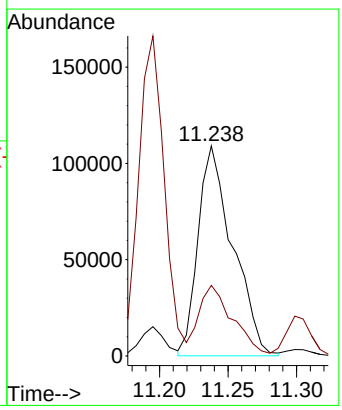


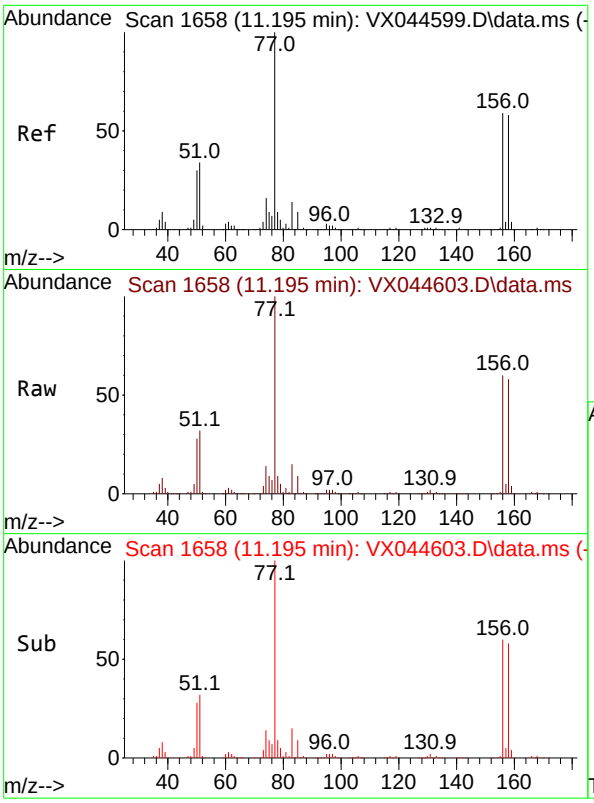


#76
1,2,3-Trichloropropane
Concen: 67.121 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 75 Resp: 192390

Ion	Ratio	Lower	Upper
75	100		
77	32.7	21.1	63.1



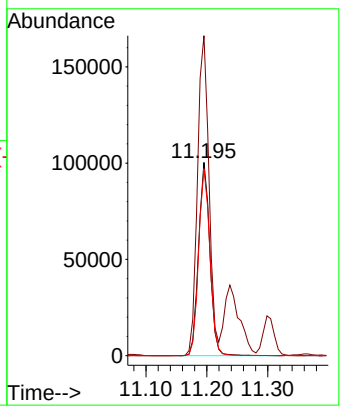


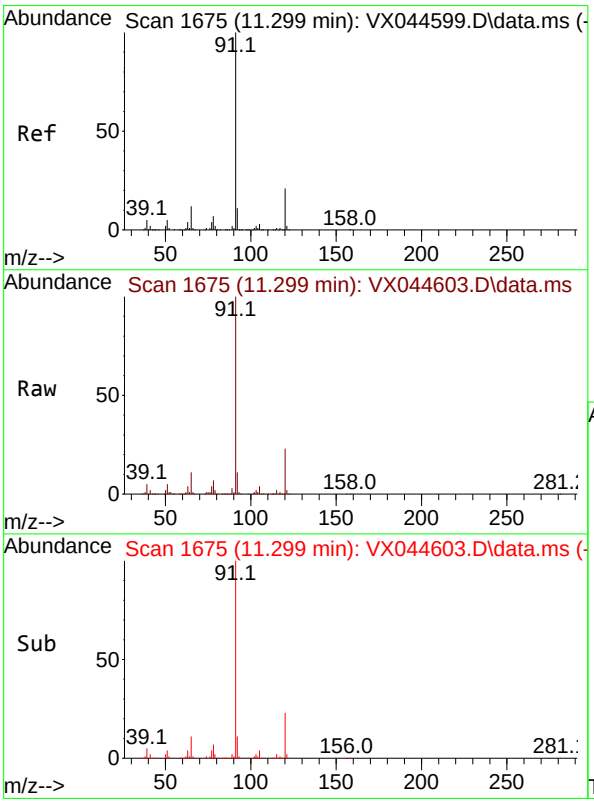
#77
Bromobenzene
Concen: 50.264 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Tgt Ion:156 Resp: 129350

Ion	Ratio	Lower	Upper
156	100		
77	168.0	85.7	257.1
158	96.6	49.9	149.6

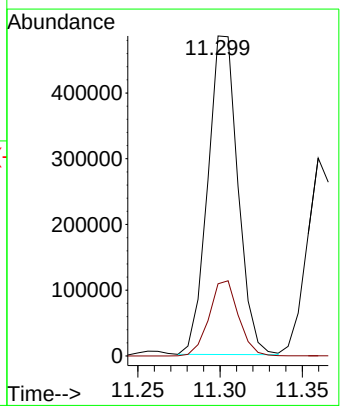


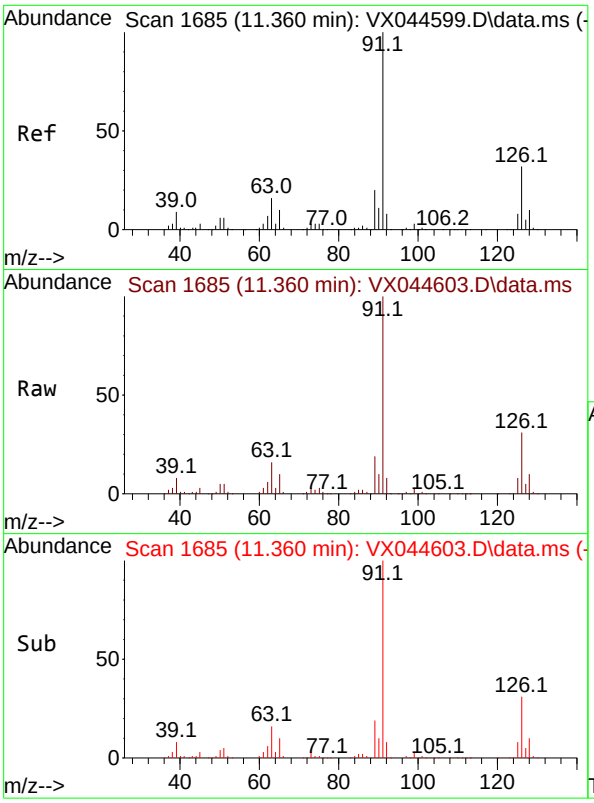


#78
n-propylbenzene
Concen: 51.897 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 91 Resp: 619242

Ion	Ratio	Lower	Upper
91	100		
120	23.0	11.2	33.5



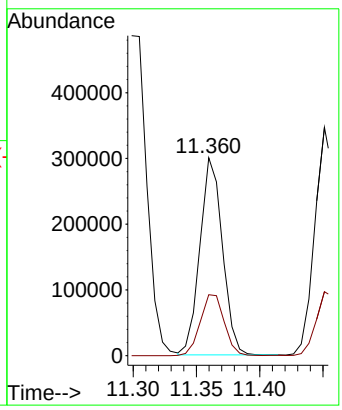


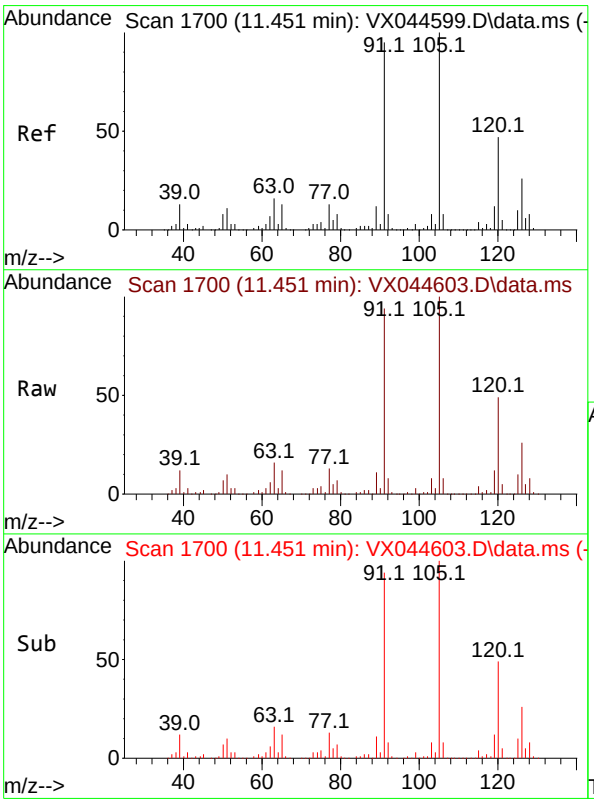
#79
2-Chlorotoluene
Concen: 48.159 ug/l
RT: 11.360 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Tgt Ion: 91 Resp: 372370

Ion	Ratio	Lower	Upper
91	100		
126	33.0	16.4	49.2

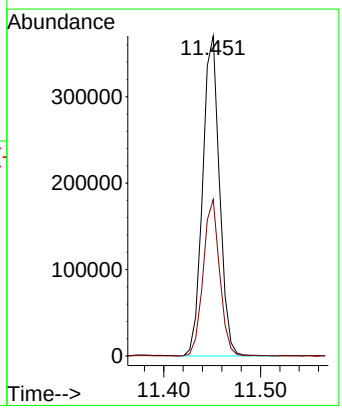


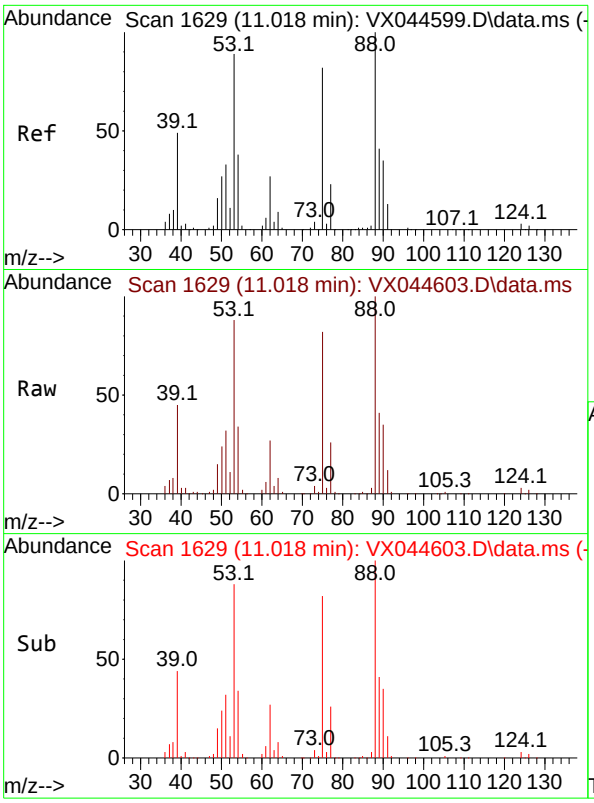


#80
1,3,5-Trimethylbenzene
Concen: 51.065 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion:105 Resp: 448527

Ion	Ratio	Lower	Upper
105	100		
120	47.8	23.5	70.5



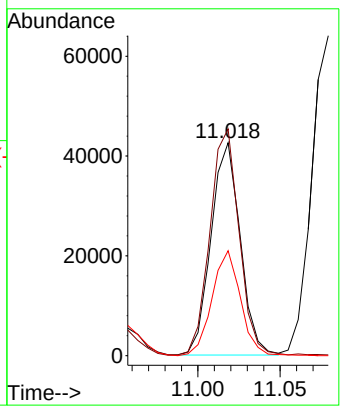


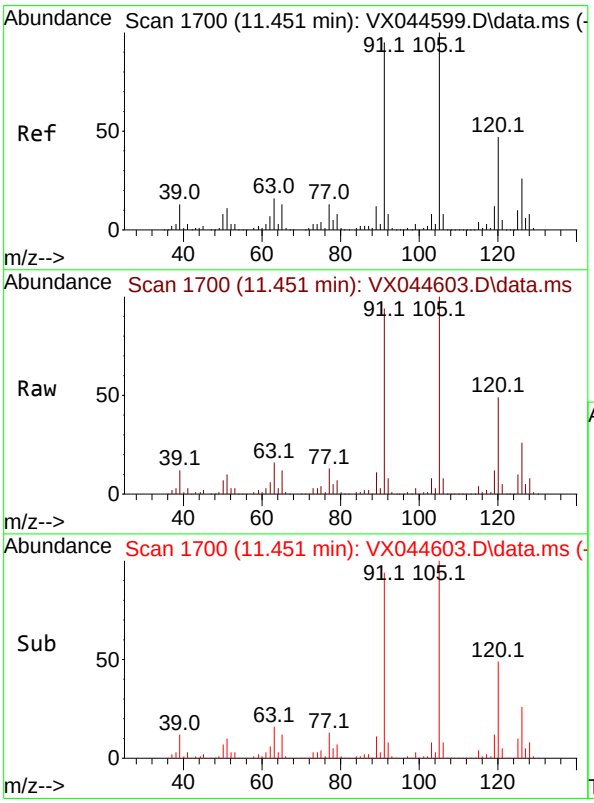
#81
trans-1,4-Dichloro-2-butene
Concen: 55.876 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Tgt Ion: 75 Resp: 52615

Ion	Ratio	Lower	Upper
75	100		
53	107.8	92.7	139.1
89	48.4	38.3	57.5

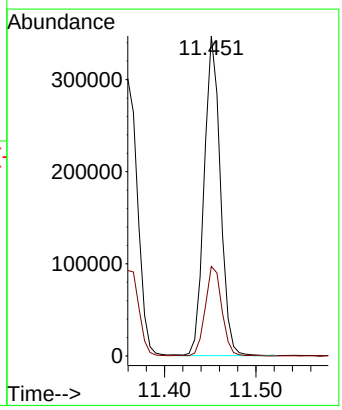


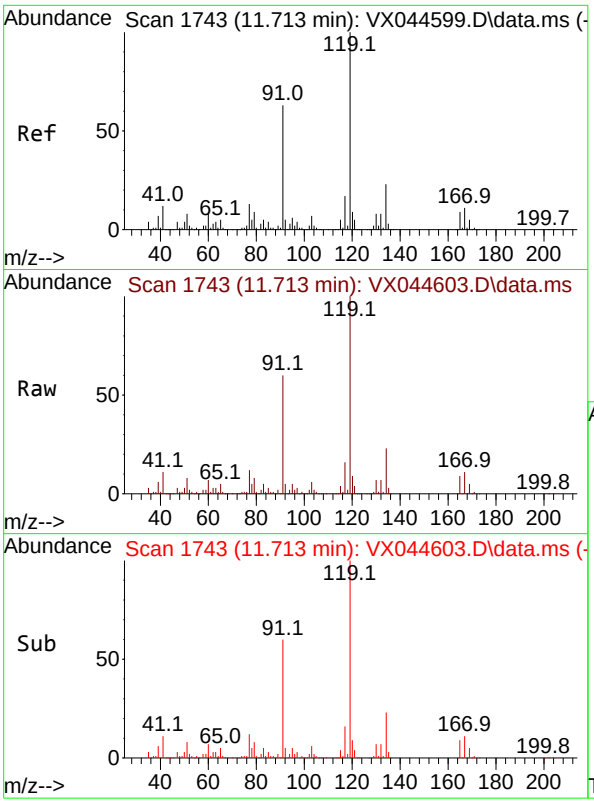


#82
4-Chlorotoluene
Concen: 48.871 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 91 Resp: 425096

Ion	Ratio	Lower	Upper
91	100		
126	28.7	14.0	42.0



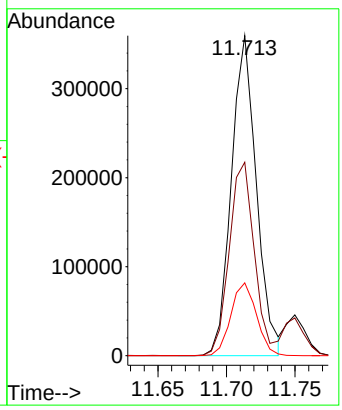


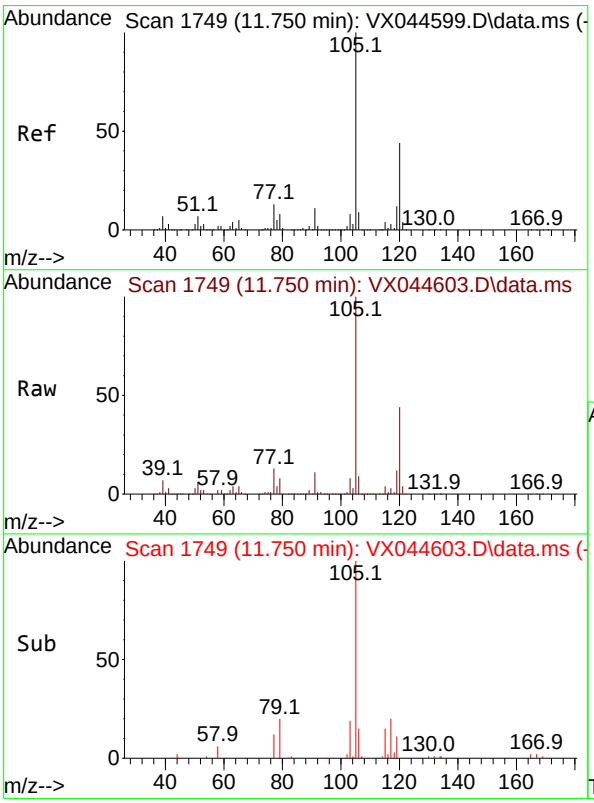
#83
tert-Butylbenzene
Concen: 52.238 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Tgt Ion:119 Resp: 456871

Ion	Ratio	Lower	Upper
119	100		
91	59.9	30.9	92.8
134	23.3	11.7	35.0

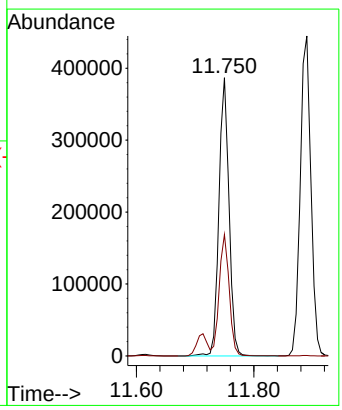


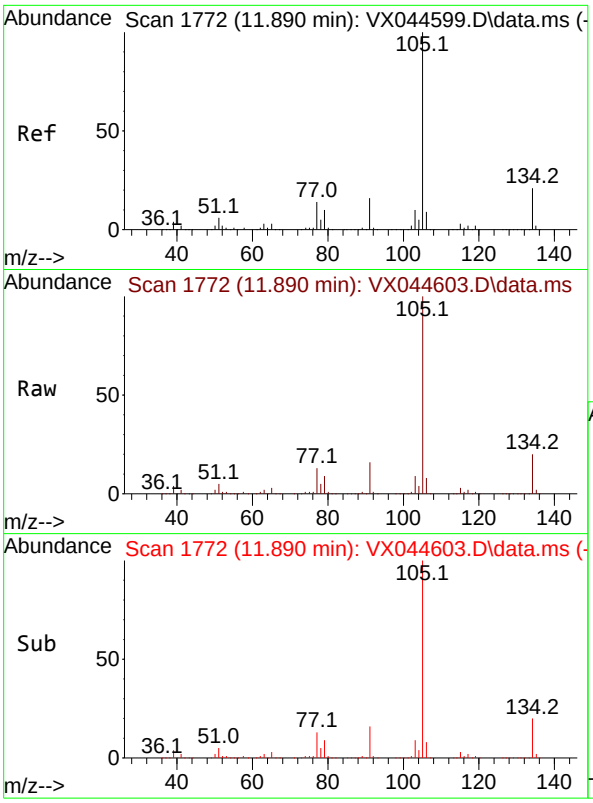


#84
1,2,4-Trimethylbenzene
Concen: 52.007 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion:105 Resp: 458866

Ion	Ratio	Lower	Upper
105	100		
120	43.4	21.9	65.7



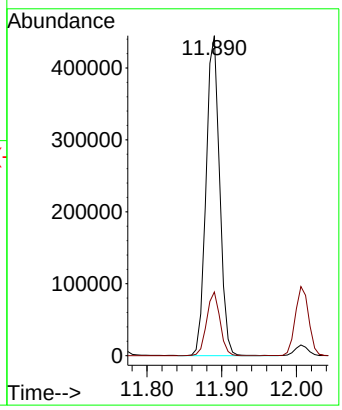


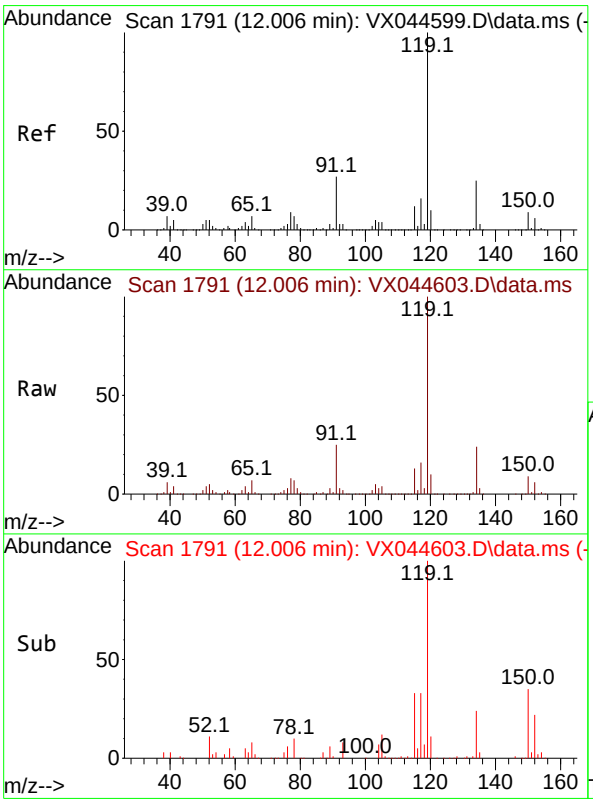
#85
sec-Butylbenzene
Concen: 52.335 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Tgt Ion:105 Resp: 557449

Ion	Ratio	Lower	Upper
105	100		
134	19.7	9.9	29.7

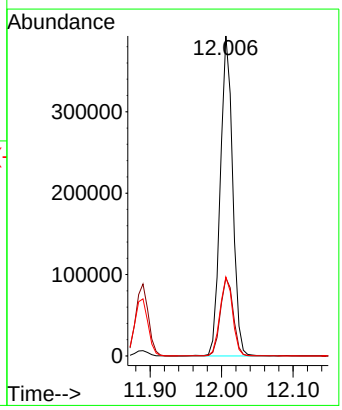


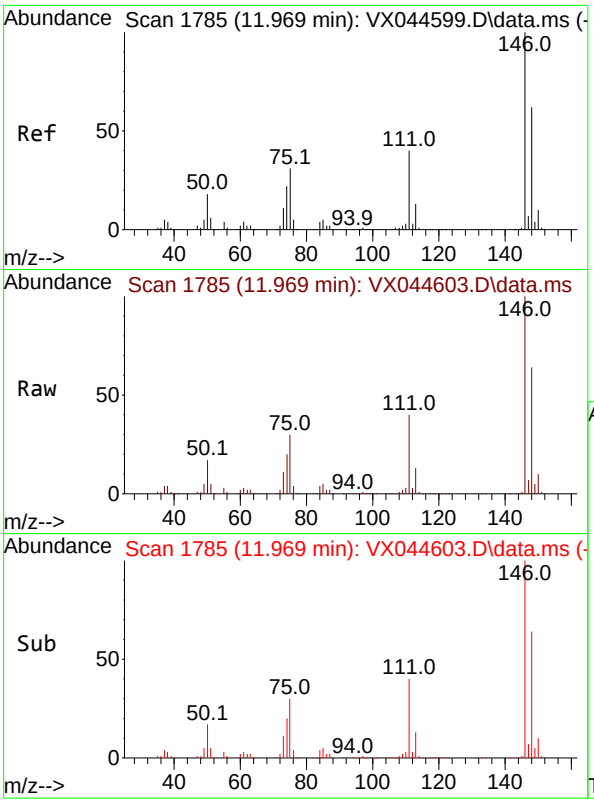


#86
p-Isopropyltoluene
Concen: 52.797 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion:119 Resp: 471864

Ion	Ratio	Lower	Upper
119	100		
134	25.5	12.6	37.8
91	25.2	13.1	39.1



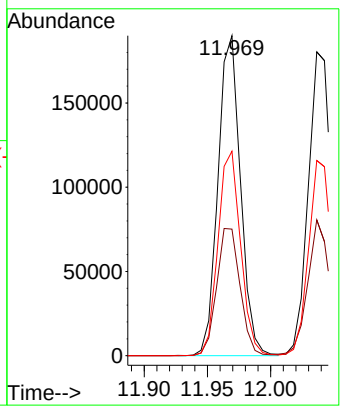


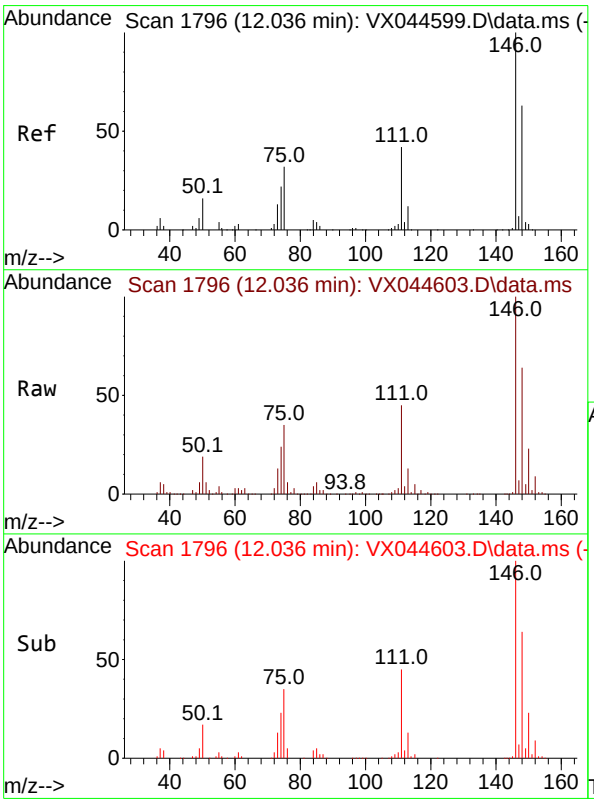
#87
1,3-Dichlorobenzene
Concen: 50.434 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Tgt Ion:146 Resp: 234785

Ion	Ratio	Lower	Upper
146	100		
111	41.4	21.0	63.0
148	64.3	31.6	95.0

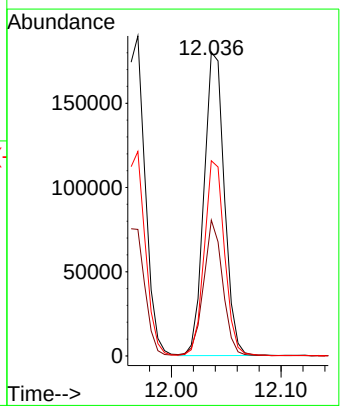


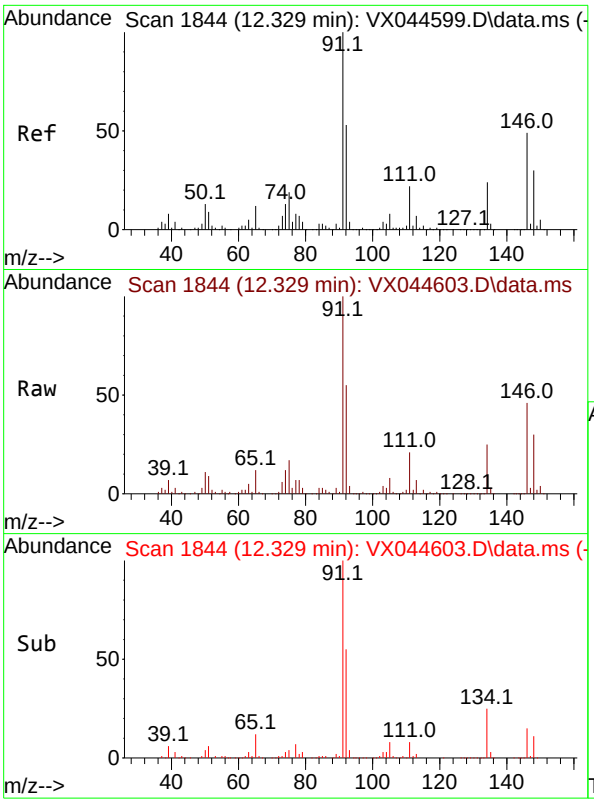


#88
1,4-Dichlorobenzene
Concen: 47.881 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion:146 Resp: 232239

Ion	Ratio	Lower	Upper
146	100		
111	42.3	20.7	62.1
148	64.0	31.8	95.4



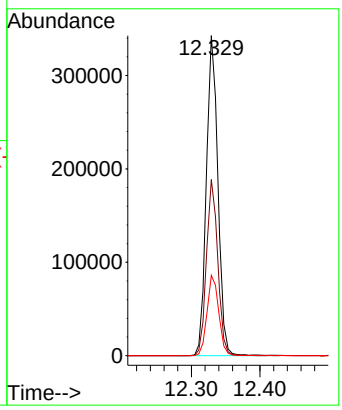


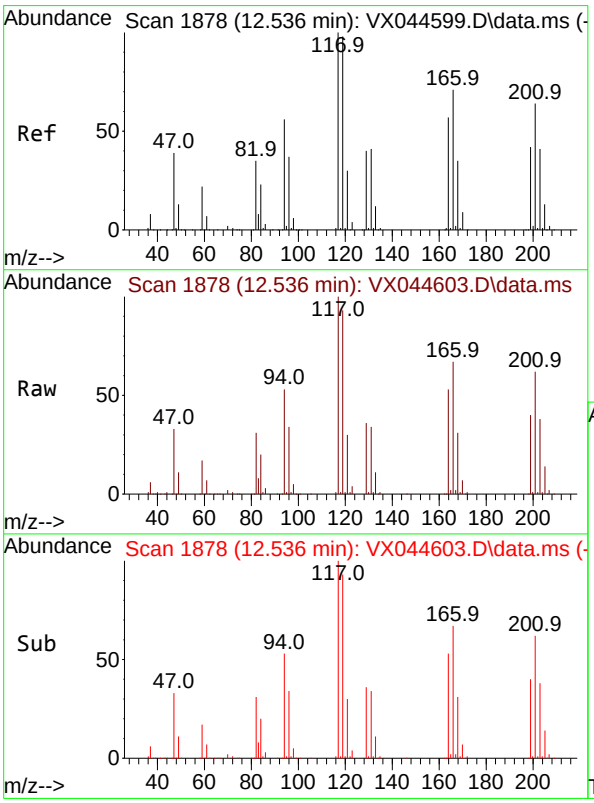
#89
n-Butylbenzene
Concen: 53.259 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Tgt Ion: 91 Resp: 401929

Ion	Ratio	Lower	Upper
91	100		
92	54.0	26.5	79.4
134	25.5	12.4	37.2

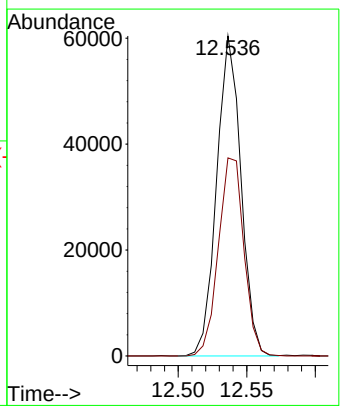


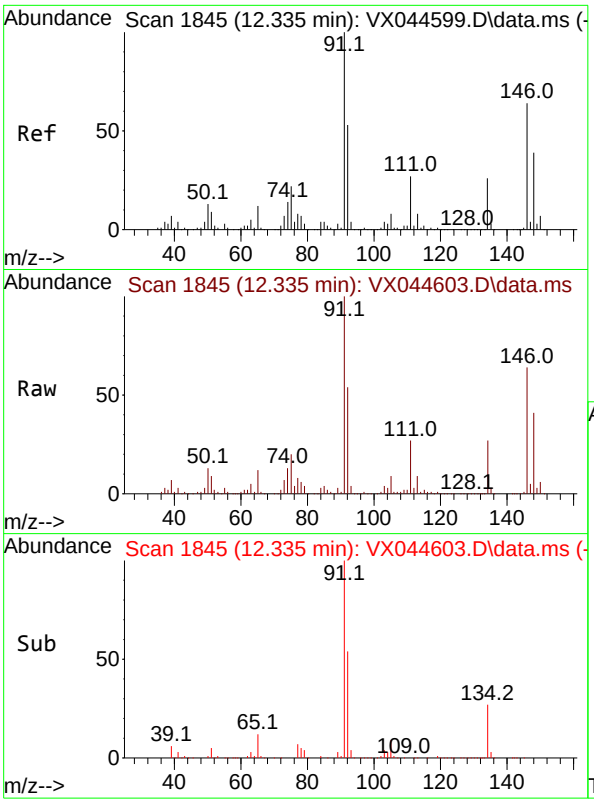


#90
Hexachloroethane
Concen: 51.831 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion:117 Resp: 74415

Ion	Ratio	Lower	Upper
117	100		
201	65.2	33.6	100.6



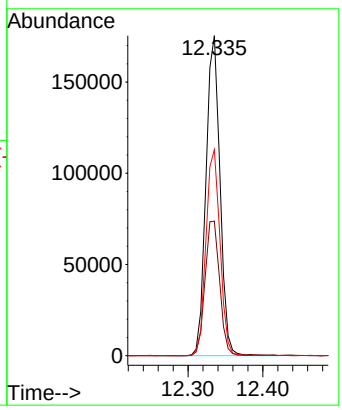


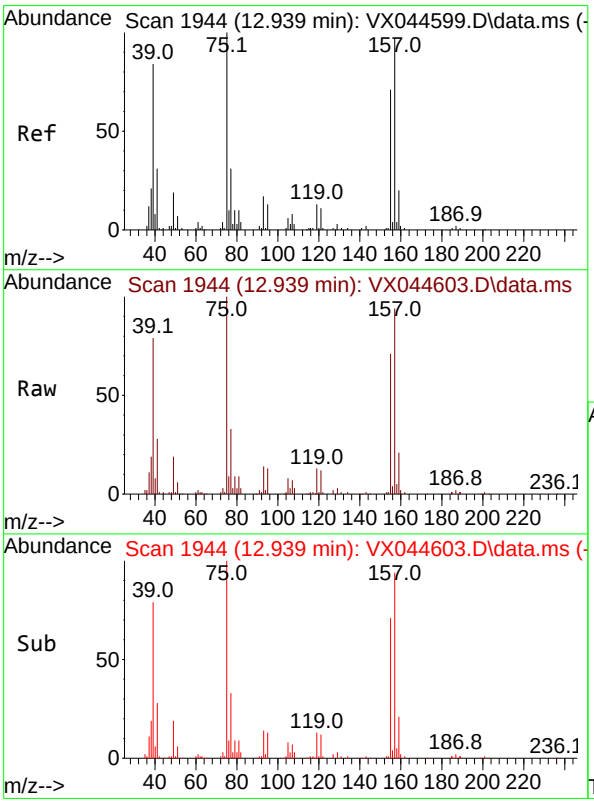
#91
1,2-Dichlorobenzene
Concen: 48.487 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Tgt Ion:146 Resp: 228094

Ion	Ratio	Lower	Upper
146	100		
111	43.9	21.8	65.4
148	64.4	31.1	93.3

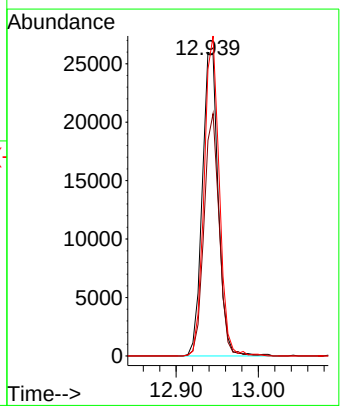


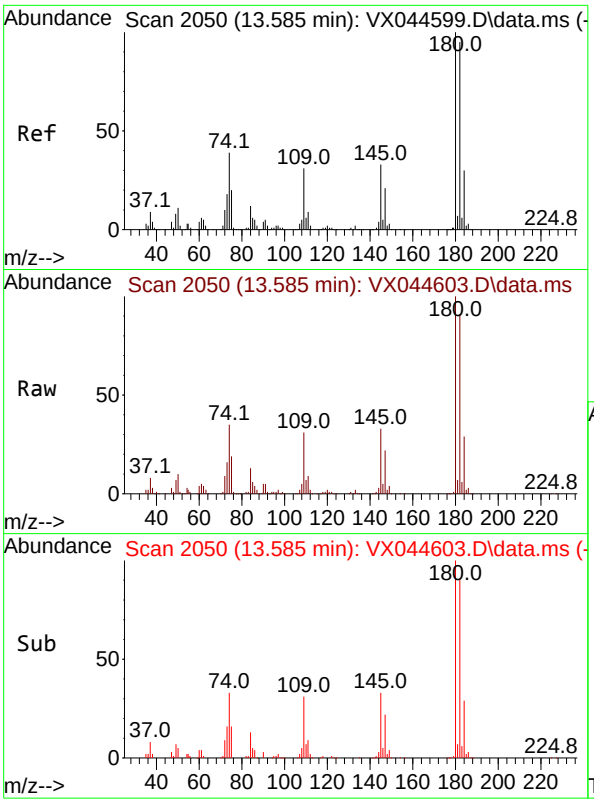


#92
1,2-Dibromo-3-Chloropropane
Concen: 54.385 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion: 75 Resp: 35205

Ion	Ratio	Lower	Upper
75	100		
155	75.6	37.4	112.1
157	99.7	48.0	144.2



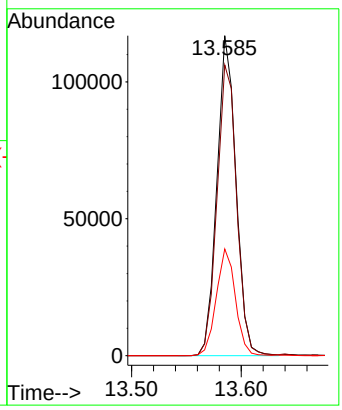


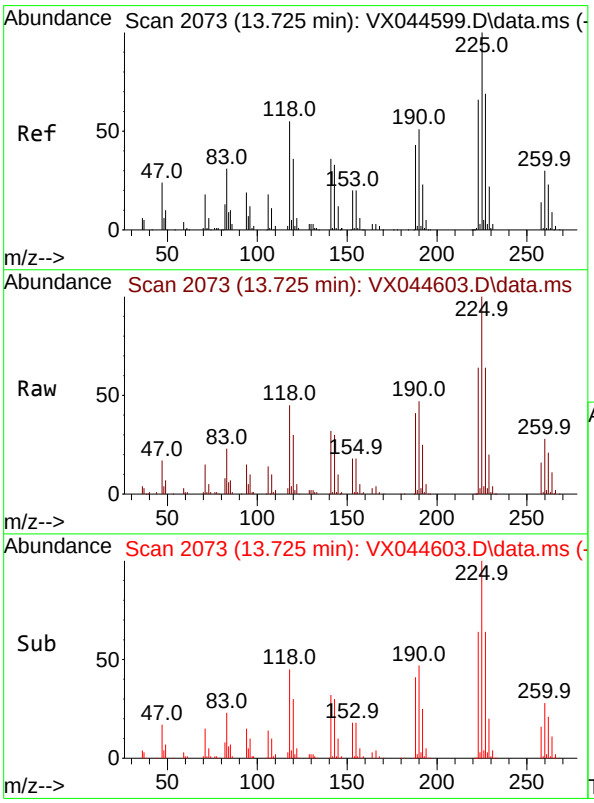
#93
1,2,4-Trichlorobenzene
Concen: 51.107 ug/l
RT: 13.585 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Tgt Ion:180 Resp: 141302

Ion	Ratio	Lower	Upper
180	100		
182	93.9	47.9	143.6
145	33.5	16.3	48.9

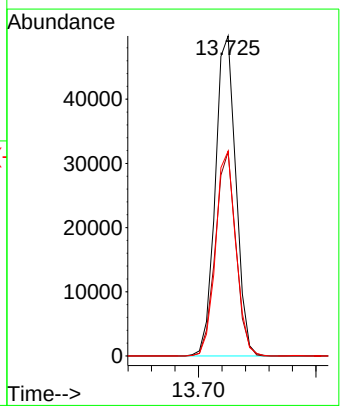


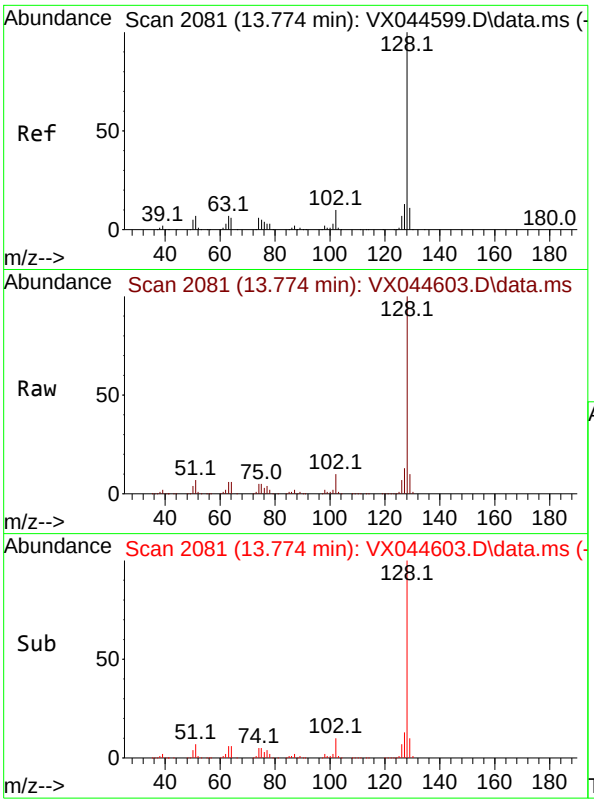


#94
Hexachlorobutadiene
Concen: 52.624 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion:225 Resp: 60585

Ion	Ratio	Lower	Upper
225	100		
223	63.4	31.6	94.8
227	63.1	31.9	95.9



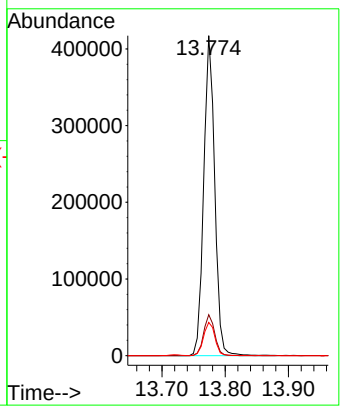


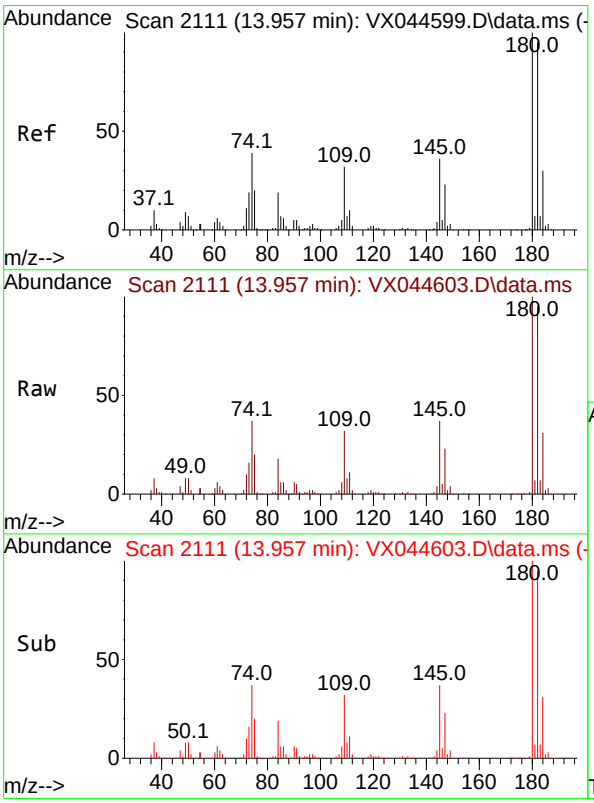
#95
Naphthalene
Concen: 56.632 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Instrument :
MSVOA_X
ClientSampleId :
ICVVX010725

Tgt Ion:128 Resp: 505215

Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.5	15.7
129	10.8	8.6	13.0

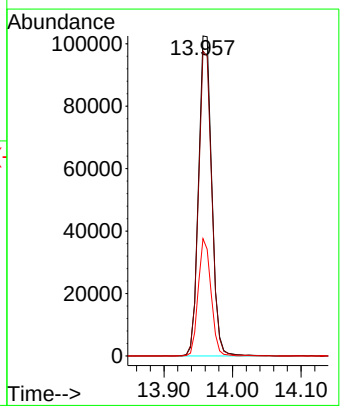




#96
1,2,3-Trichlorobenzene
Concen: 48.678 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VX044603.D
Acq: 07 Jan 2025 15:34

Tgt Ion:180 Resp: 137582

Ion	Ratio	Lower	Upper
180	100		
182	95.6	47.6	142.9
145	35.5	17.6	52.9



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044606.D
Acq On : 07 Jan 2025 16:57
Operator : JC/MD
Sample : VX0107WBS02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Quant Time: Jan 09 03:31:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 03:57:12 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.538	168	220733	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	377450	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	324333	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	167120	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	178695	50.209	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 100.420%			
35) Dibromofluoromethane	5.379	113	125576	48.518	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 97.040%			
50) Toluene-d8	8.641	98	435468	49.256	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 98.520%			
62) 4-Bromofluorobenzene	11.079	95	157465	50.462	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 100.920%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	60506	18.945	ug/l	97
3) Chloromethane	1.295	50	55002	17.282	ug/l	97
4) Vinyl Chloride	1.374	62	54350	18.203	ug/l	99
5) Bromomethane	1.593	94	27787	17.967	ug/l	98
6) Chloroethane	1.666	64	30070	17.605	ug/l	98
7) Trichlorofluoromethane	1.874	101	86604	19.480	ug/l	92
8) Diethyl Ether	2.130	74	32020	20.384	ug/l	91
9) 1,1,2-Trichlorotrifluo...	2.319	101	46890	18.396	ug/l	98
10) Methyl Iodide	2.447	142	59649	16.782	ug/l	99
11) Tert butyl alcohol	2.983	59	44363	101.228	ug/l	99
12) 1,1-Dichloroethene	2.313	96	43673	17.686	ug/l	96
13) Acrolein	2.233	56	54760	94.504	ug/l	96
14) Allyl chloride	2.660	41	74088	18.040	ug/l	98
15) Acrylonitrile	3.062	53	124308	98.487	ug/l	99
16) Acetone	2.380	43	123615	110.199	ug/l	99
17) Carbon Disulfide	2.502	76	89917	17.610	ug/l	97
18) Methyl Acetate	2.697	43	66752	20.161	ug/l	97
19) Methyl tert-butyl Ether	3.111	73	158707	18.754	ug/l	98
20) Methylene Chloride	2.782	84	50182	17.535	ug/l	98
21) trans-1,2-Dichloroethene	3.087	96	45171	17.823	ug/l	94
22) Diisopropyl ether	3.757	45	156543	18.542	ug/l	100
23) Vinyl Acetate	3.715	43	671174	98.313	ug/l	100
24) 1,1-Dichloroethane	3.599	63	88317	17.953	ug/l	96
25) 2-Butanone	4.556	43	176234	108.846	ug/l	98
26) 2,2-Dichloropropane	4.465	77	78234	18.394	ug/l	99
27) cis-1,2-Dichloroethene	4.477	96	54462	17.624	ug/l	99
28) Bromochloromethane	4.891	49	42280	18.464	ug/l	97
29) Tetrahydrofuran	5.001	42	111343	100.421	ug/l	99
30) Chloroform	5.080	83	94379	17.797	ug/l	98
31) Cyclohexane	5.464	56	73605	18.224	ug/l	94
32) 1,1,1-Trichloroethane	5.373	97	84469	18.926	ug/l	99
36) 1,1-Dichloropropene	5.678	75	59615	17.813	ug/l	99
37) Ethyl Acetate	4.709	43	68748	20.080	ug/l	99
38) Carbon Tetrachloride	5.666	117	66584	17.931	ug/l	94
39) Methylcyclohexane	7.373	83	79915	18.714	ug/l	96
40) Benzene	6.031	78	185689	17.621	ug/l	99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044606.D
Acq On : 07 Jan 2025 16:57
Operator : JC/MD
Sample : VX0107WBS02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Quant Time: Jan 09 03:31:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 03:57:12 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.916	41	36179	19.687	ug/l		97
42) 1,2-Dichloroethane	6.080	62	77836	18.887	ug/l		99
43) Isopropyl Acetate	6.336	43	112810	19.972	ug/l		99
44) Trichloroethene	7.117	130	45250	16.798	ug/l		91
45) 1,2-Dichloropropane	7.428	63	46312	18.026	ug/l		100
46) Dibromomethane	7.574	93	36722	18.379	ug/l		97
47) Bromodichloromethane	7.818	83	67673	18.612	ug/l		97
48) Methyl methacrylate	7.690	41	56864	21.108	ug/l		99
49) 1,4-Dioxane	7.665	88	17140	432.961	ug/l		89
51) 4-Methyl-2-Pentanone	8.574	43	344130	104.227	ug/l		99
52) Toluene	8.714	92	116712	18.356	ug/l		97
53) t-1,3-Dichloropropene	8.976	75	67077	19.300	ug/l		99
54) cis-1,3-Dichloropropene	8.360	75	72482	18.556	ug/l		97
55) 1,1,2-Trichloroethane	9.147	97	45623	18.303	ug/l		98
56) Ethyl methacrylate	9.116	69	71741	19.791	ug/l		98
57) 1,3-Dichloropropane	9.305	76	78769	18.819	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	157231	87.493	ug/l		98
59) 2-Hexanone	9.427	43	253622	108.615	ug/l		100
60) Dibromochloromethane	9.519	129	45815	18.434	ug/l		99
61) 1,2-Dibromoethane	9.604	107	47065	18.696	ug/l		99
64) Tetrachloroethene	9.269	164	39764	17.340	ug/l		95
65) Chlorobenzene	10.073	112	125819	18.278	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.159	131	42891	18.761	ug/l		98
67) Ethyl Benzene	10.189	91	222270	18.804	ug/l		99
68) m/p-Xylenes	10.299	106	165085	38.006	ug/l		99
69) o-Xylene	10.640	106	80120	18.274	ug/l		99
70) Styrene	10.653	104	132817	18.940	ug/l		98
71) Bromoform	10.799	173	26348	17.838	ug/l	#	99
73) Isopropylbenzene	10.957	105	213335	17.230	ug/l		100
74) N-amyl acetate	10.842	43	91220	18.157	ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.207	83	68139	17.074	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	71789	21.429	ug/l		87
77) Bromobenzene	11.195	156	49329	16.401	ug/l		99
78) n-propylbenzene	11.299	91	239201	17.152	ug/l		100
79) 2-Chlorotoluene	11.360	91	147621	16.335	ug/l		100
80) 1,3,5-Trimethylbenzene	11.451	105	178900	17.427	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	18148	16.490	ug/l		95
82) 4-Chlorotoluene	11.451	91	169363	16.659	ug/l		98
83) tert-Butylbenzene	11.713	119	200140	19.579	ug/l		98
84) 1,2,4-Trimethylbenzene	11.750	105	199250	19.322	ug/l		98
85) sec-Butylbenzene	11.890	105	236525	18.999	ug/l		99
86) p-Isopropyltoluene	12.006	119	199894	19.136	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	100552	18.480	ug/l		99
88) 1,4-Dichlorobenzene	12.036	146	100929	17.804	ug/l		99
89) n-Butylbenzene	12.329	91	166838	18.915	ug/l		98
90) Hexachloroethane	12.536	117	27835	16.588	ug/l		98
91) 1,2-Dichlorobenzene	12.335	146	100486	18.276	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	13803	18.244	ug/l		89
93) 1,2,4-Trichlorobenzene	13.585	180	56878	17.601	ug/l		99
94) Hexachlorobutadiene	13.725	225	24088	17.902	ug/l		98
95) Naphthalene	13.774	128	201646	19.340	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	62675	18.973	ug/l		98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044606.D
Acq On : 07 Jan 2025 16:57
Operator : JC/MD
Sample : VX0107WBS02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Quant Time: Jan 09 03:31:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 03:57:12 2025
Response via : Initial Calibration

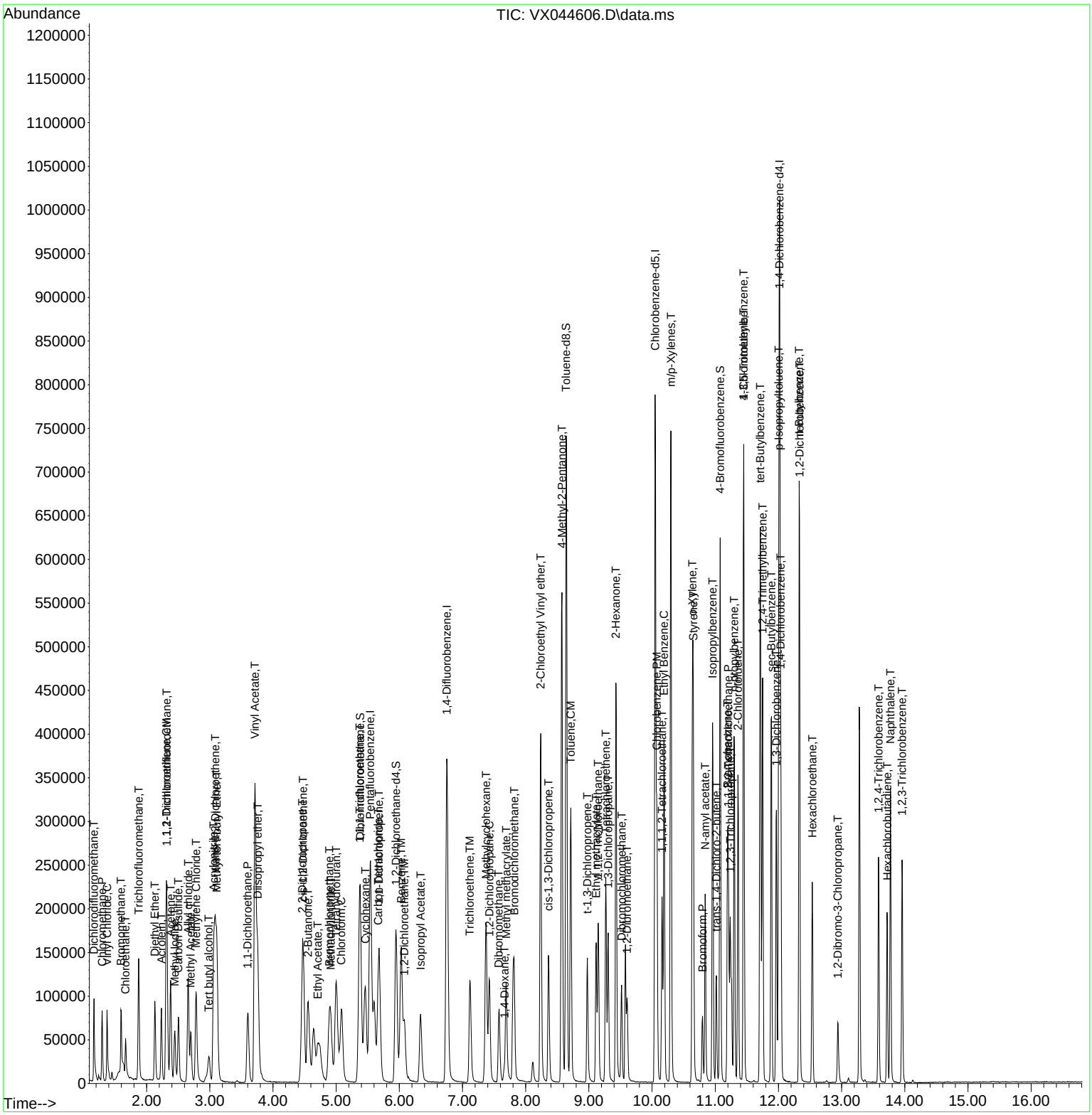
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

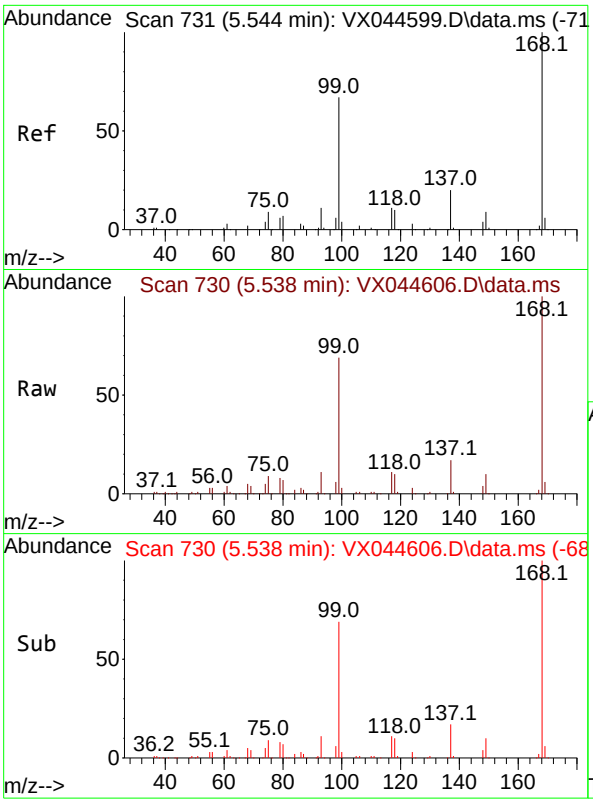
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044606.D
Acq On : 07 Jan 2025 16:57
Operator : JC/MD
Sample : VX0107WBS02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Quant Time: Jan 09 03:31:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 03:57:12 2025
Response via : Initial Calibration



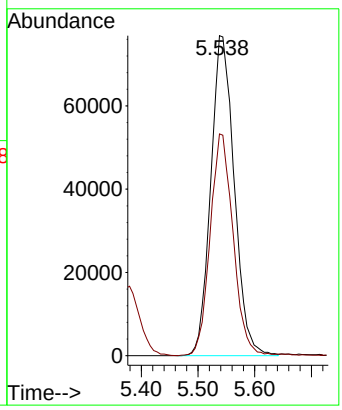


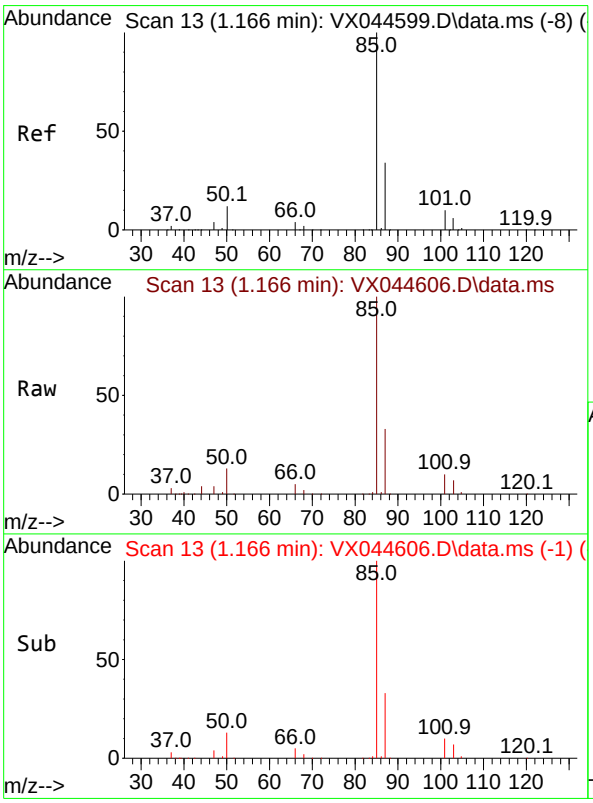
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Tgt Ion:168 Resp: 220733

Ion	Ratio	Lower	Upper
168	100		
99	69.3	53.5	80.3

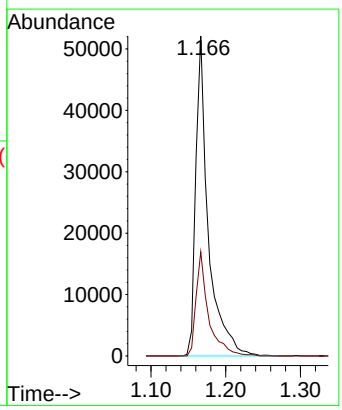


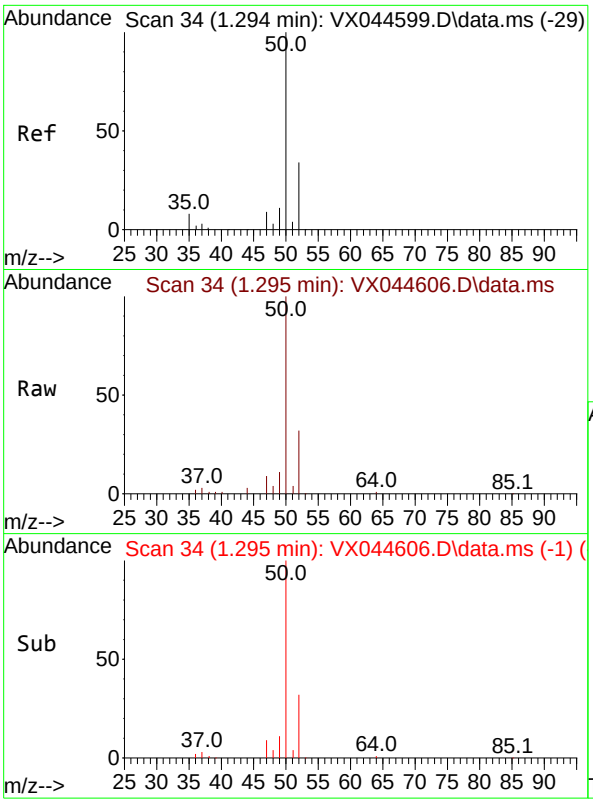


#2
Dichlorodifluoromethane
Concen: 18.945 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 85 Resp: 60506

Ion	Ratio	Lower	Upper
85	100		
87	32.6	17.2	51.5



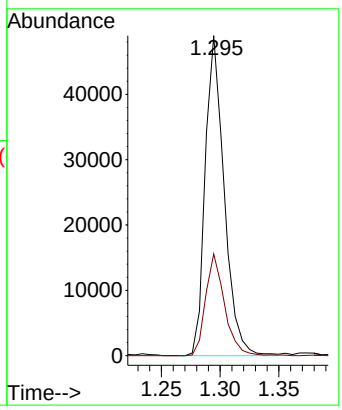


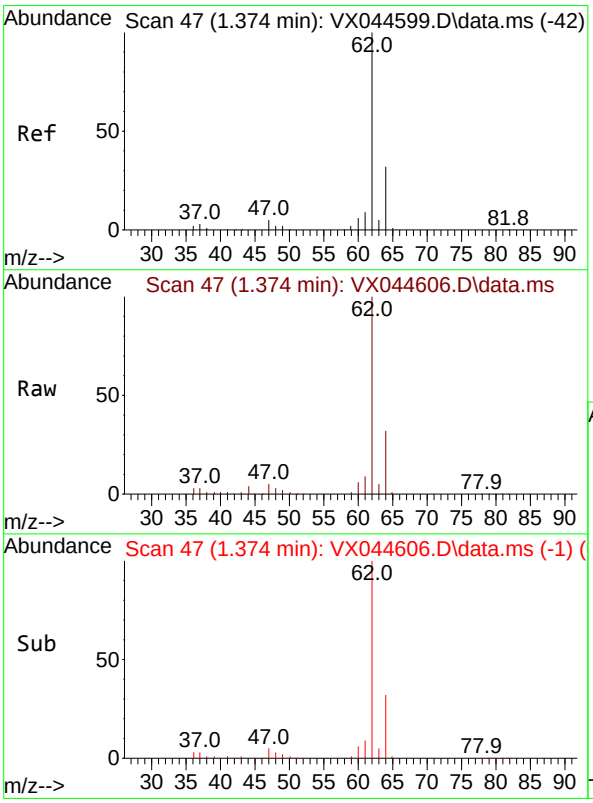
#3
Chloromethane
Concen: 17.282 ug/l
RT: 1.295 min Scan# 34
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Tgt Ion: 50 Resp: 55002

Ion	Ratio	Lower	Upper
50	100		
52	31.8	27.0	40.4

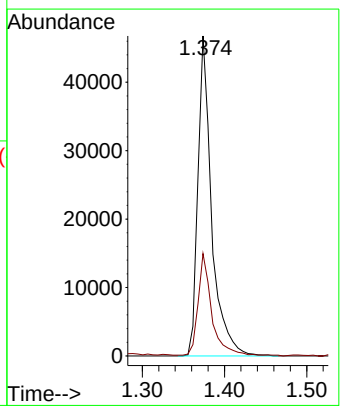


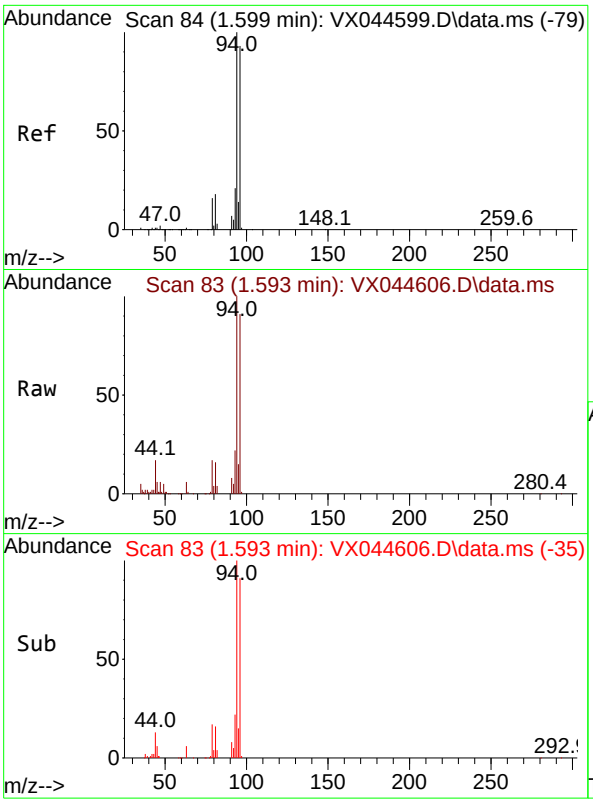


#4
Vinyl Chloride
Concen: 18.203 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 62 Resp: 54350

Ion	Ratio	Lower	Upper
62	100		
64	31.8	26.0	39.0



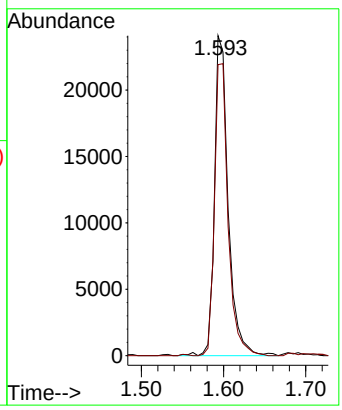


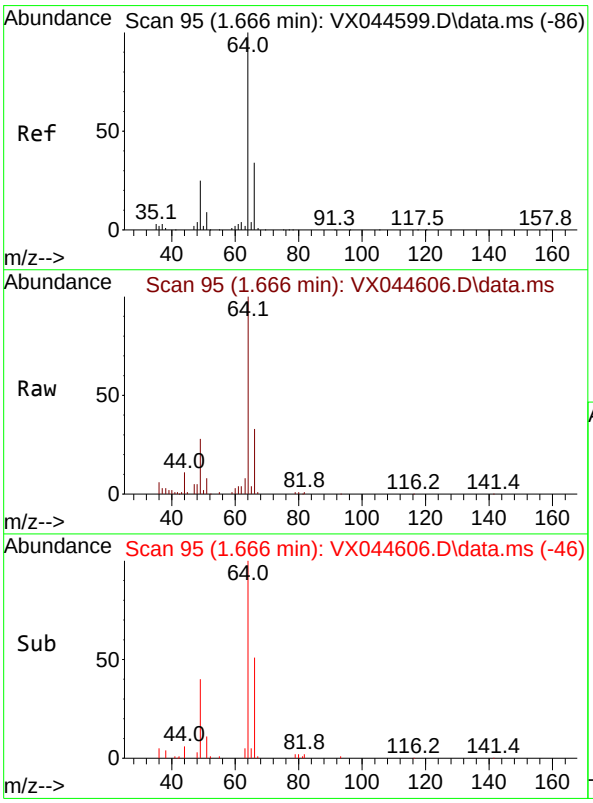
#5
Bromomethane
Concen: 17.967 ug/l
RT: 1.593 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Tgt Ion: 94 Resp: 27787

Ion	Ratio	Lower	Upper
94	100		
96	91.0	74.6	112.0

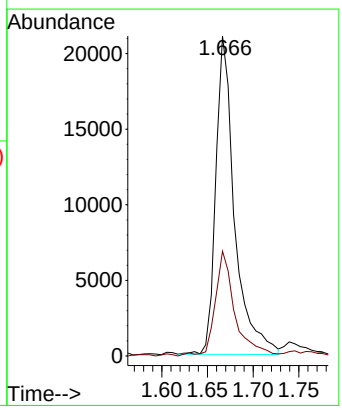


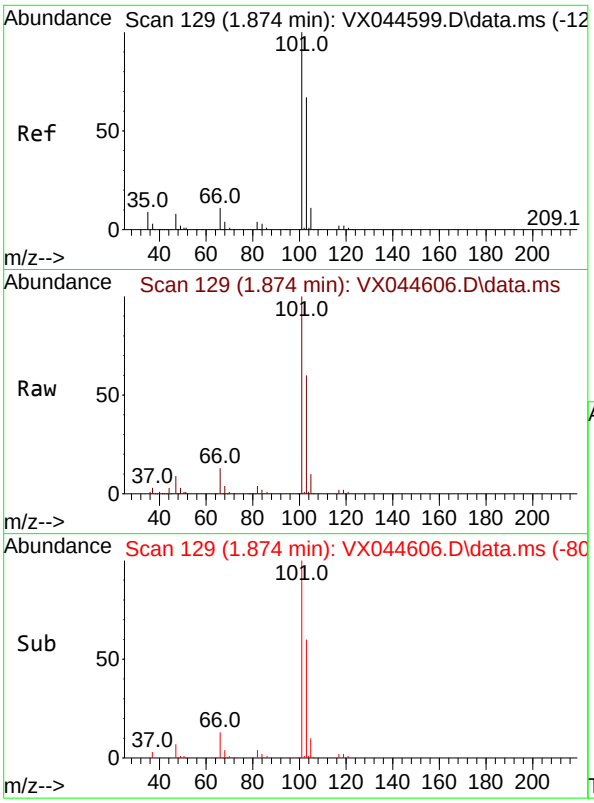


#6
Chloroethane
Concen: 17.605 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 64 Resp: 30070

Ion	Ratio	Lower	Upper
64	100		
66	32.9	27.3	40.9



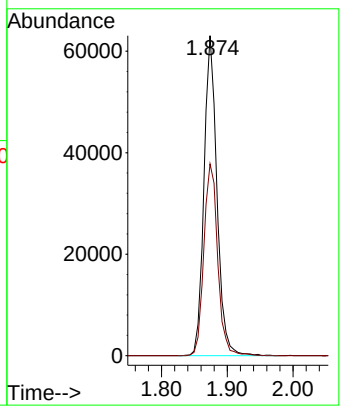


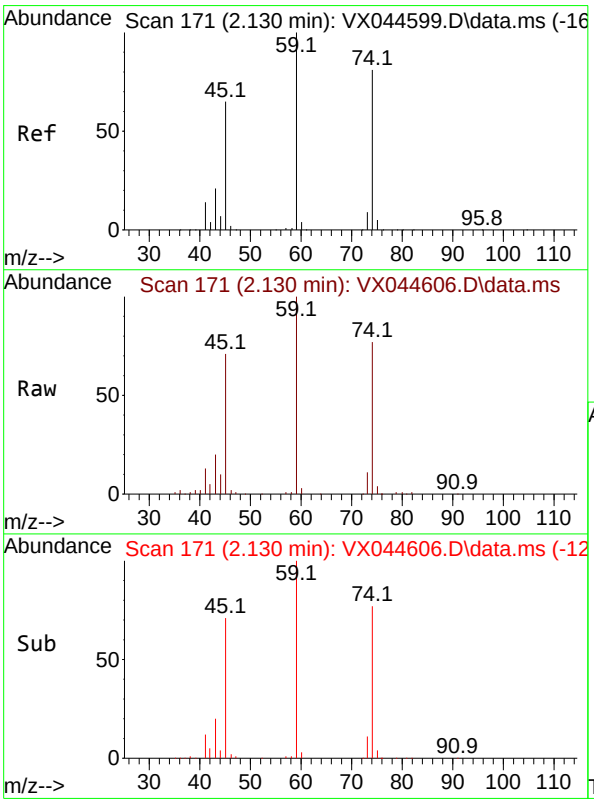
#7
Trichlorofluoromethane
Concen: 19.480 ug/l
RT: 1.874 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Tgt Ion:101 Resp: 86604

Ion	Ratio	Lower	Upper
101	100		
103	60.0	53.3	79.9

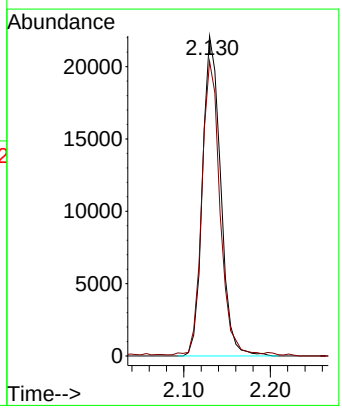


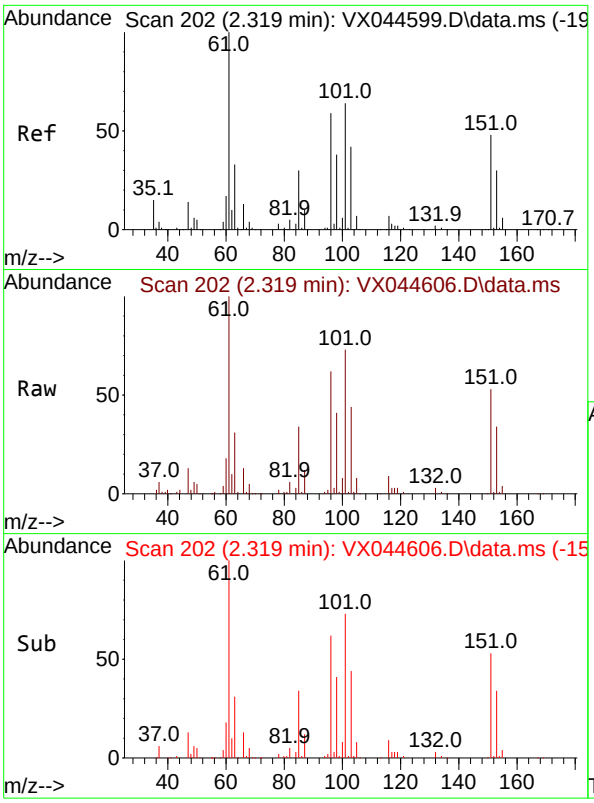


#8
Diethyl Ether
Concen: 20.384 ug/l
RT: 2.130 min Scan# 171
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 74 Resp: 32020

Ion	Ratio	Lower	Upper
74	100		
45	91.9	41.7	125.1



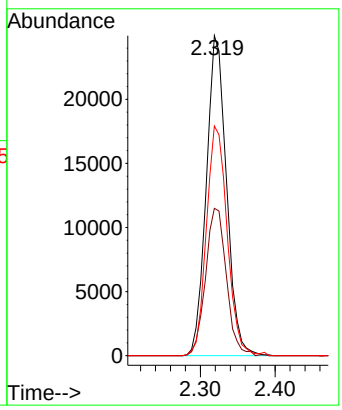


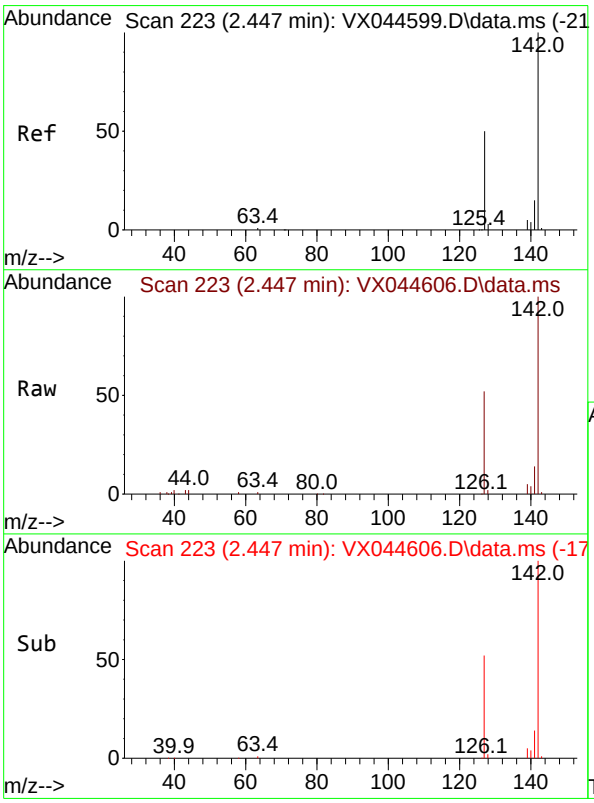
#9
1,1,2-Trichlorotrifluoroethane
Concen: 18.396 ug/l
RT: 2.319 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Tgt Ion:101 Resp: 46890

Ion	Ratio	Lower	Upper
101	100		
85	47.5	36.5	54.7
151	73.9	58.6	87.8

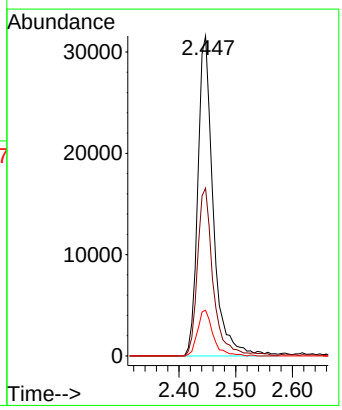


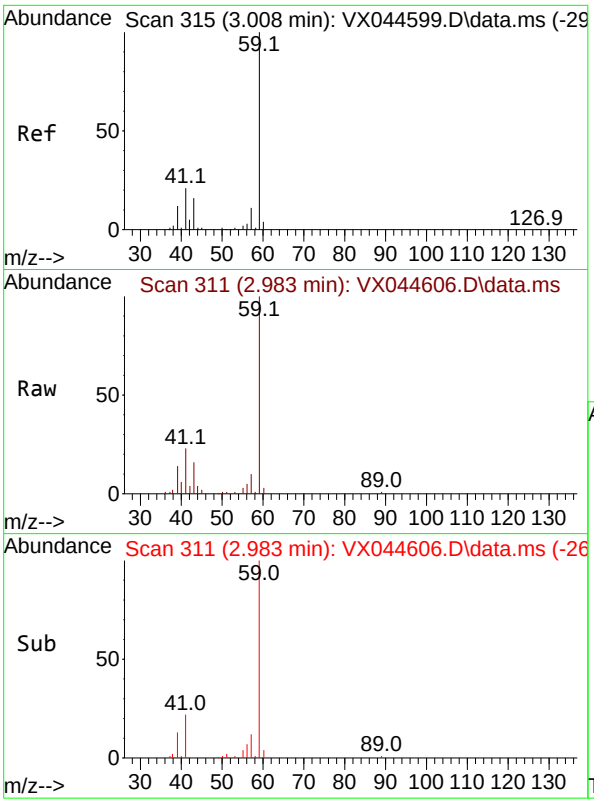


#10
Methyl Iodide
Concen: 16.782 ug/l
RT: 2.447 min Scan# 223
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion:142 Resp: 59649

Ion	Ratio	Lower	Upper
142	100		
127	53.4	41.9	62.9
141	14.4	11.8	17.6



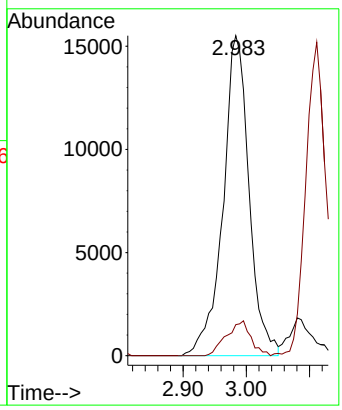


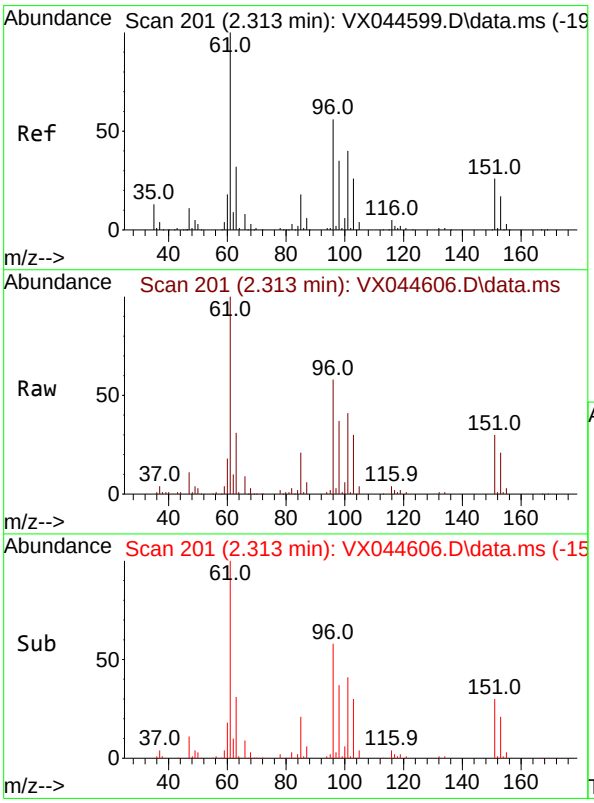
#11
Tert butyl alcohol
Concen: 101.228 ug/l
RT: 2.983 min Scan# 3
Delta R.T. -0.024 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Tgt Ion: 59 Resp: 44363

Ion	Ratio	Lower	Upper
59	100		
57	10.2	8.6	12.8

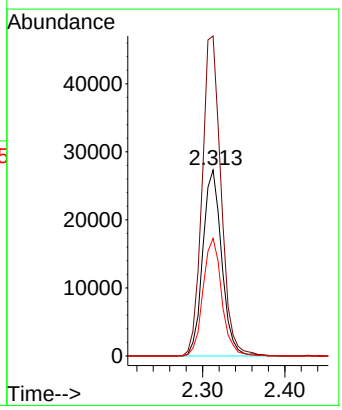


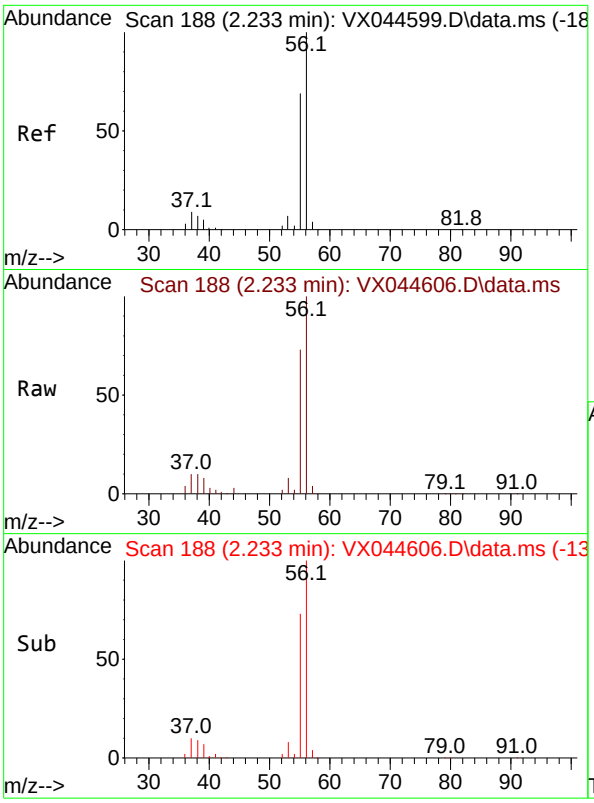


#12
1,1-Dichloroethene
Concen: 17.686 ug/l
RT: 2.313 min Scan# 201
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 96 Resp: 43673

Ion	Ratio	Lower	Upper
96	100		
61	172.2	143.3	214.9
98	63.3	50.6	76.0



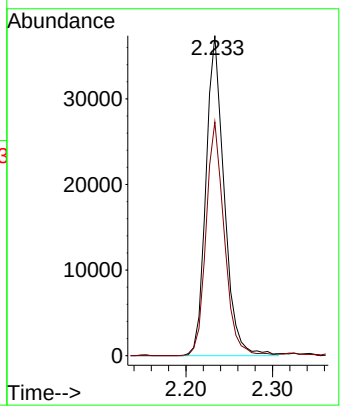


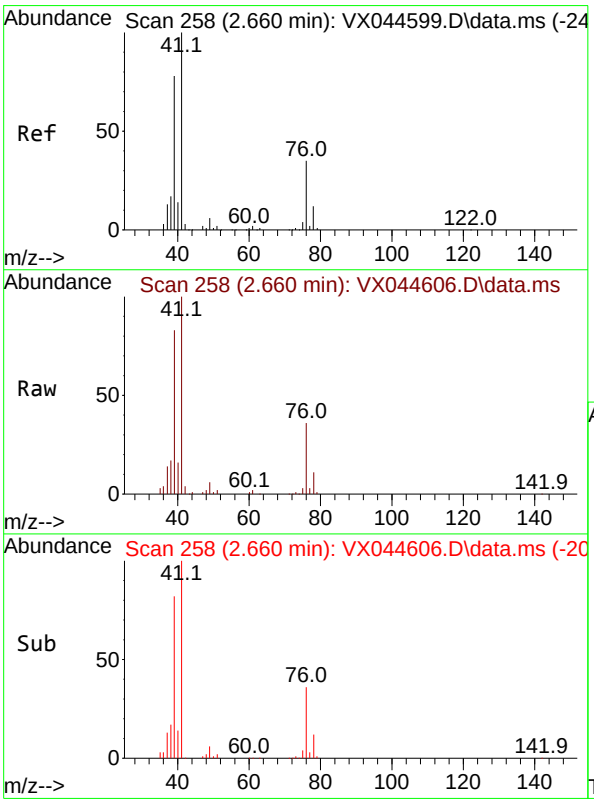
#13
Acrolein
Concen: 94.504 ug/l
RT: 2.233 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Tgt Ion: 56 Resp: 54760

Ion	Ratio	Lower	Upper
56	100		
55	72.9	55.8	83.8

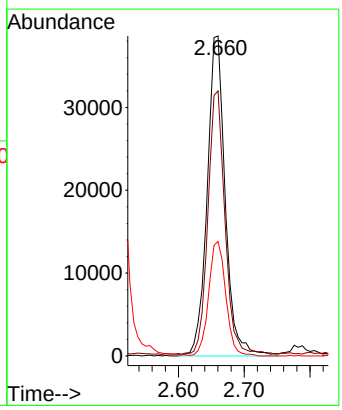


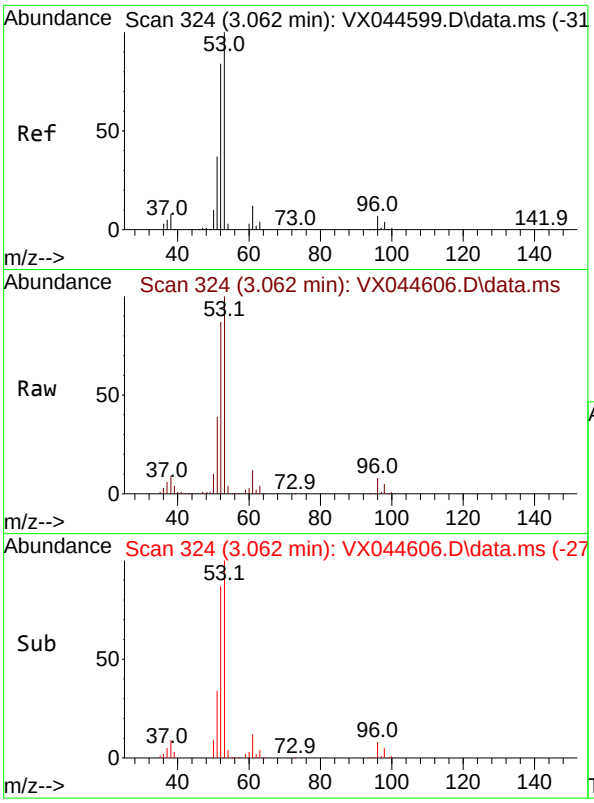


#14
Allyl chloride
Concen: 18.040 ug/l
RT: 2.660 min Scan# 258
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 41 Resp: 74088

Ion	Ratio	Lower	Upper
41	100		
39	77.0	60.2	90.2
76	33.8	25.9	38.9



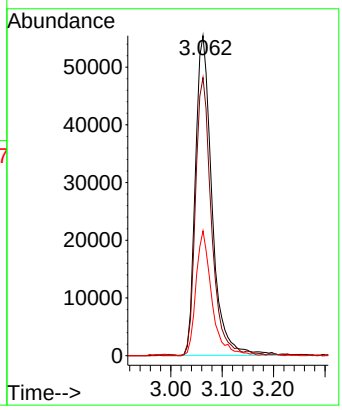


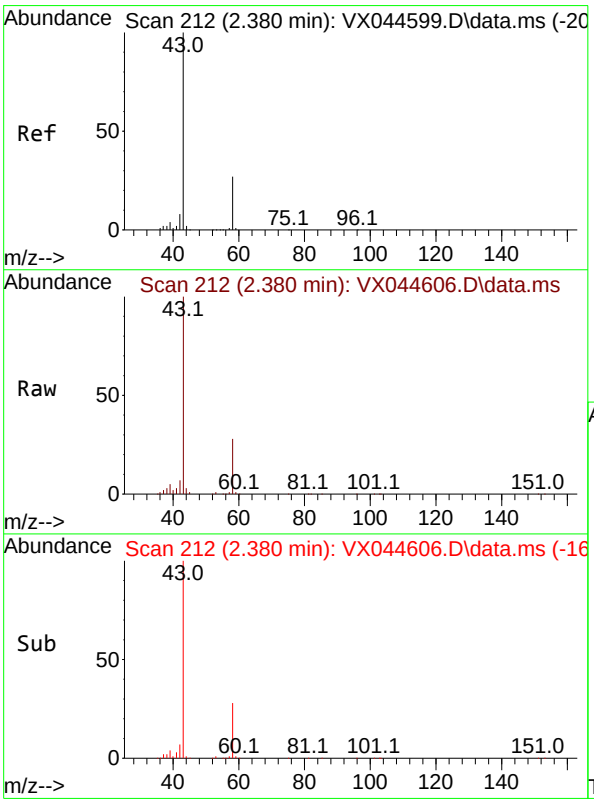
#15
Acrylonitrile
Concen: 98.487 ug/l
RT: 3.062 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Tgt Ion: 53 Resp: 124308

Ion	Ratio	Lower	Upper
53	100		
52	83.3	67.0	100.6
51	37.4	29.4	44.0

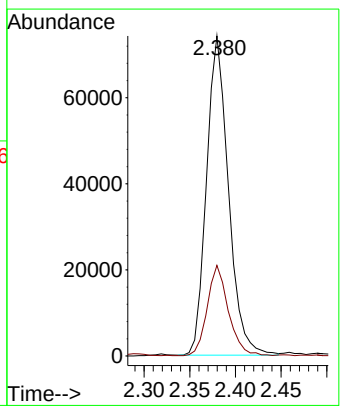


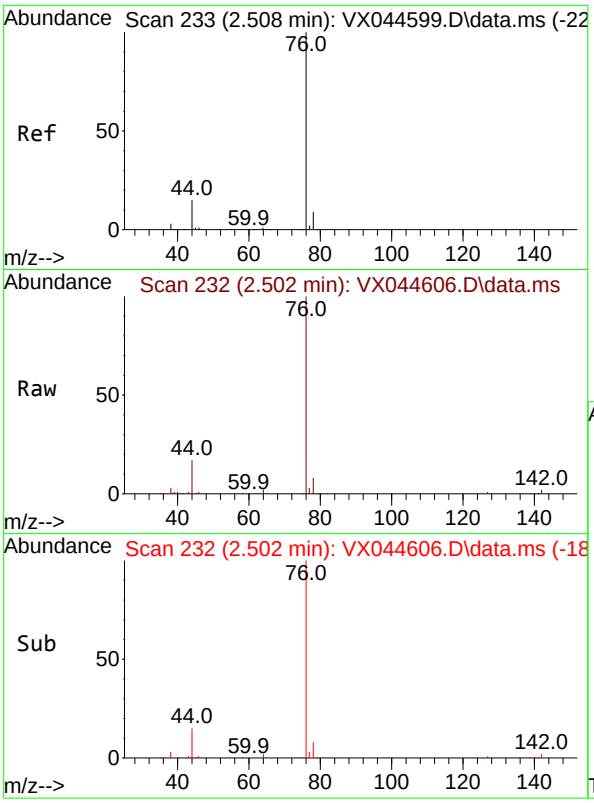


#16
Acetone
Concen: 110.199 ug/l
RT: 2.380 min Scan# 212
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 43 Resp: 123615

Ion	Ratio	Lower	Upper
43	100		
58	28.2	22.0	33.0



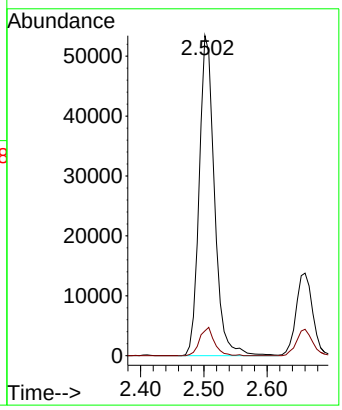


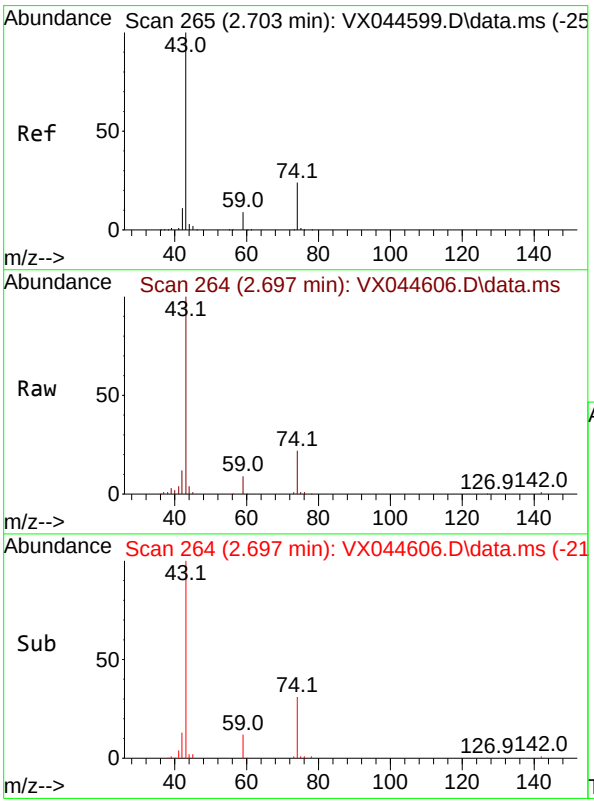
#17
Carbon Disulfide
Concen: 17.610 ug/l
RT: 2.502 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Tgt Ion: 76 Resp: 89917

Ion	Ratio	Lower	Upper
76	100		
78	7.7	7.1	10.7

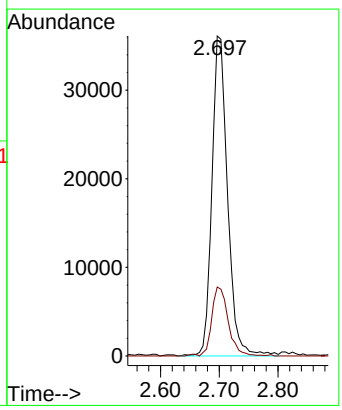


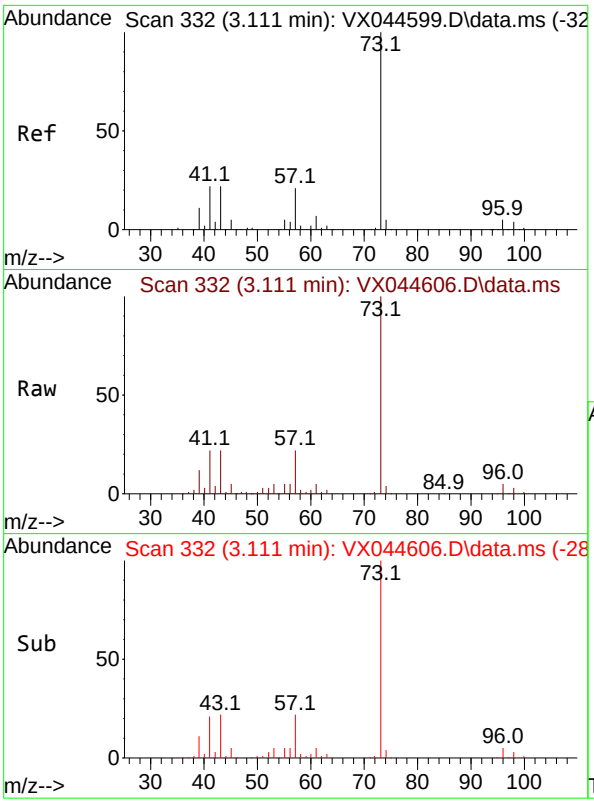


#18
Methyl Acetate
Concen: 20.161 ug/l
RT: 2.697 min Scan# 264
Delta R.T. -0.006 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 43 Resp: 66752

Ion	Ratio	Lower	Upper
43	100		
74	22.8	19.3	28.9



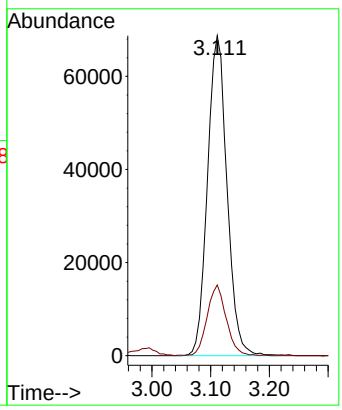


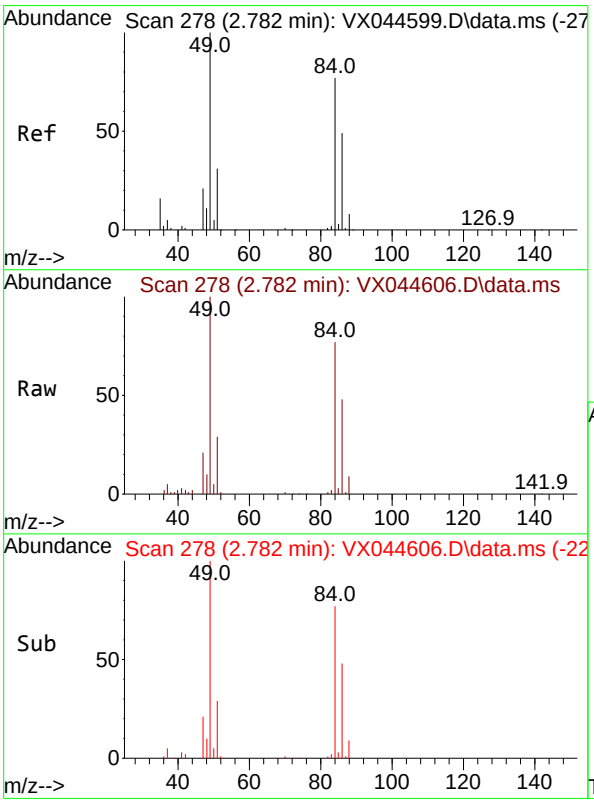
#19
Methyl tert-butyl Ether
Concen: 18.754 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Tgt Ion: 73 Resp: 158707

Ion	Ratio	Lower	Upper
73	100		
57	22.1	17.0	25.4

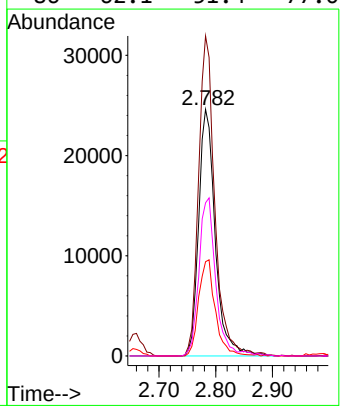


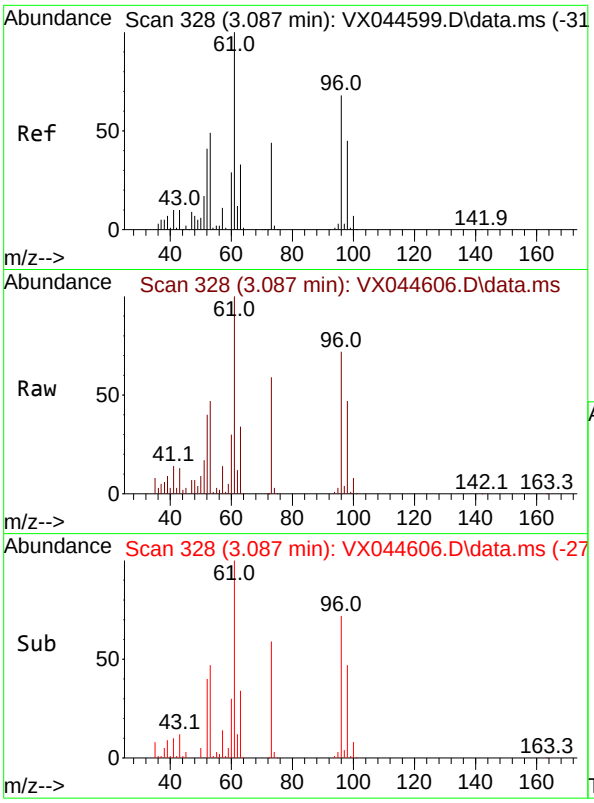


#20
Methylene Chloride
Concen: 17.535 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 84 Resp: 50182

Ion	Ratio	Lower	Upper
84	100		
49	129.8	104.4	156.6
51	38.3	32.0	48.0
86	62.1	51.4	77.0



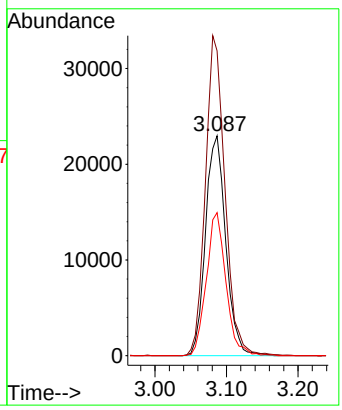


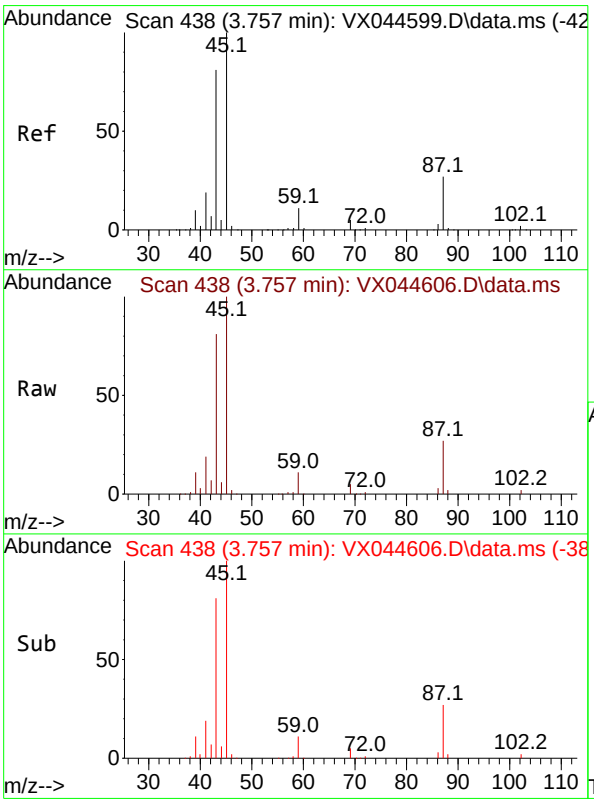
#21
trans-1,2-Dichloroethene
Concen: 17.823 ug/l
RT: 3.087 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Tgt Ion: 96 Resp: 45171

Ion	Ratio	Lower	Upper
96	100		
61	138.6	118.5	177.7
98	65.1	53.4	80.0

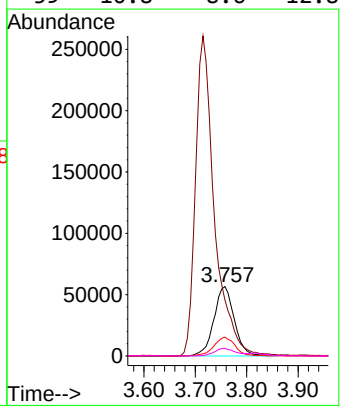


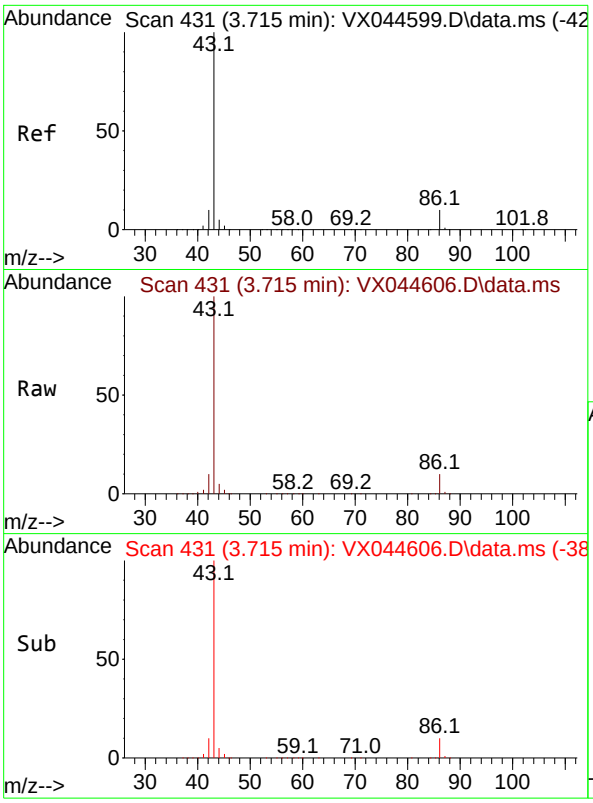


#22
Diisopropyl ether
Concen: 18.542 ug/l
RT: 3.757 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 45 Resp: 156543

Ion	Ratio	Lower	Upper
45	100		
43	80.5	64.6	97.0
87	27.2	21.8	32.8
59	10.8	8.6	12.8



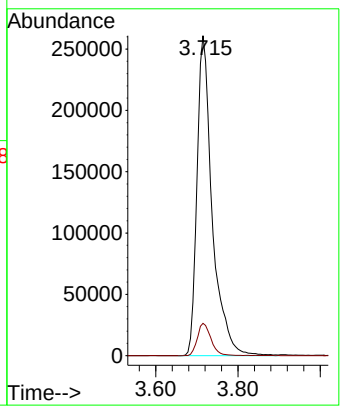


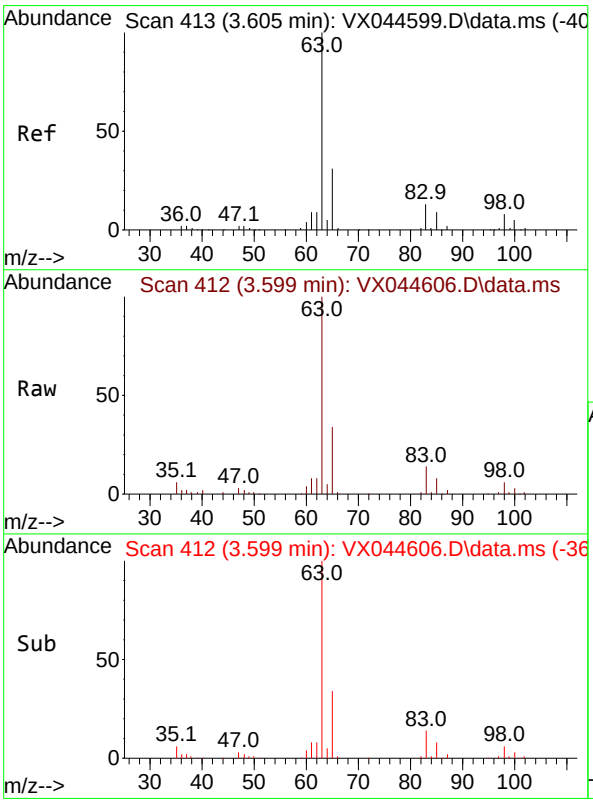
#23
Vinyl Acetate
Concen: 98.313 ug/l
RT: 3.715 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Tgt Ion: 43 Resp: 671174

Ion	Ratio	Lower	Upper
43	100		
86	10.1	8.1	12.1

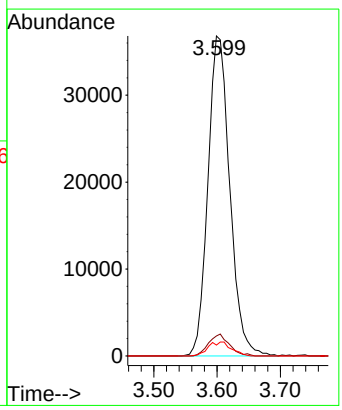


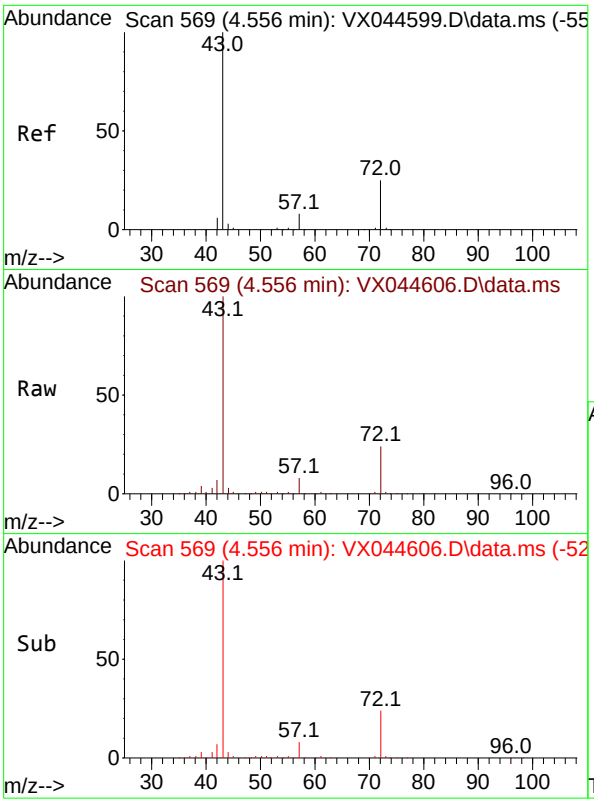


#24
1,1-Dichloroethane
Concen: 17.953 ug/l
RT: 3.599 min Scan# 412
Delta R.T. -0.006 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 63 Resp: 88317

Ion	Ratio	Lower	Upper
63	100		
98	6.3	3.8	11.4
100	3.4	2.4	7.2



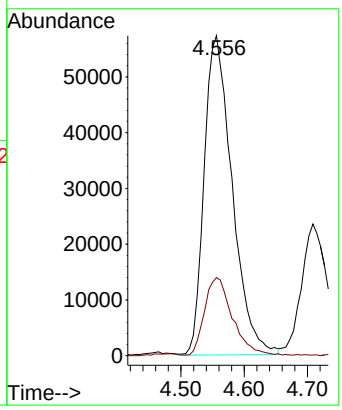


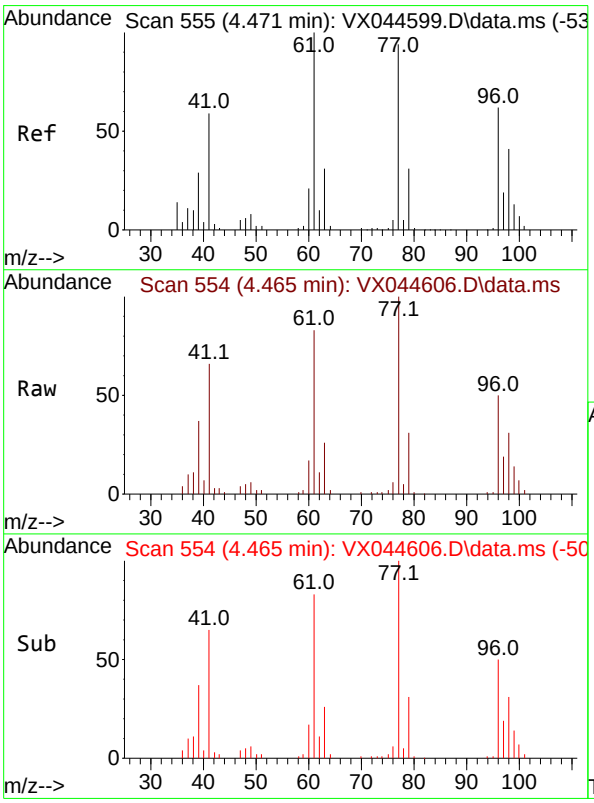
#25
2-Butanone
Concen: 108.846 ug/l
RT: 4.556 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Tgt Ion: 43 Resp: 176234

Ion	Ratio	Lower	Upper
43	100		
72	24.1	20.2	30.2

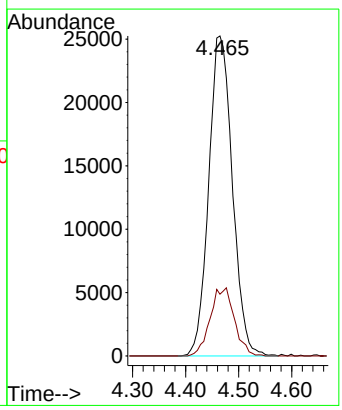


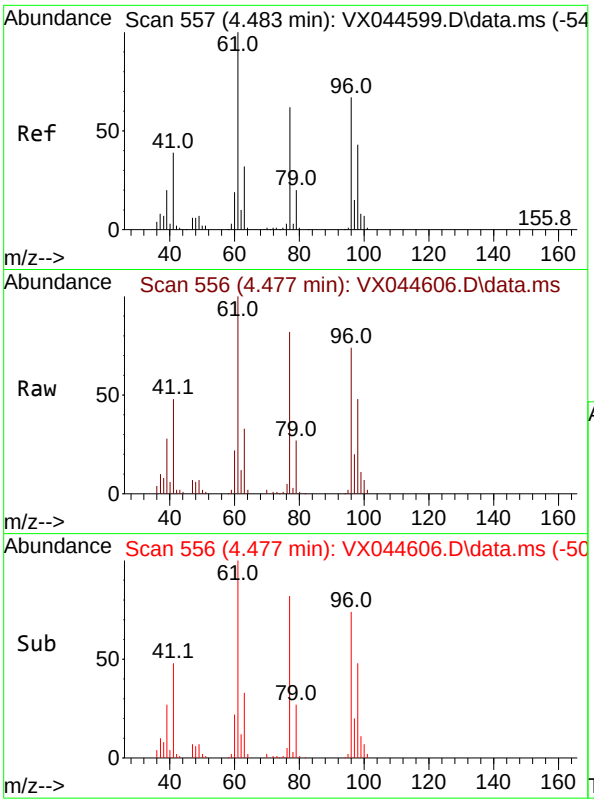


#26
2,2-Dichloropropane
Concen: 18.394 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.006 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 77 Resp: 78234

Ion	Ratio	Lower	Upper
77	100		
97	21.8	10.7	32.1



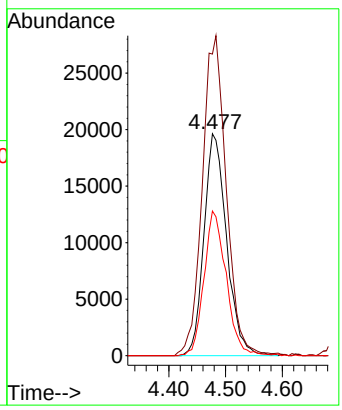


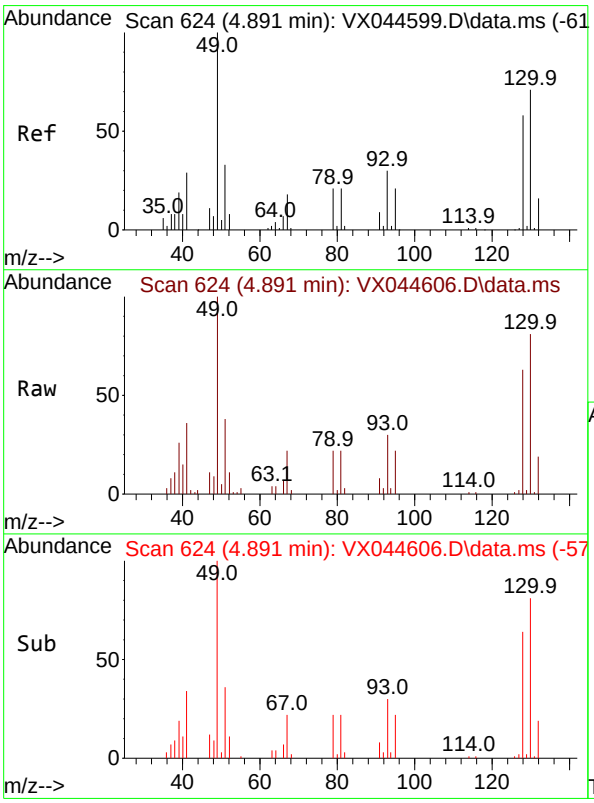
#27
cis-1,2-Dichloroethene
Concen: 17.624 ug/l
RT: 4.477 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Tgt Ion: 96 Resp: 54462

Ion	Ratio	Lower	Upper
96	100		
61	152.6	0.0	302.8
98	63.9	0.0	130.0

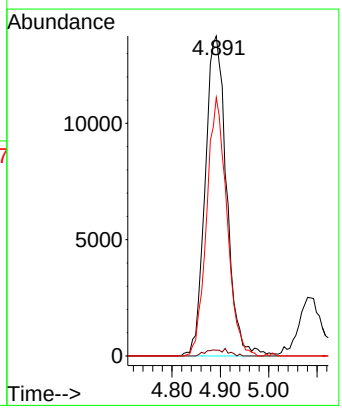


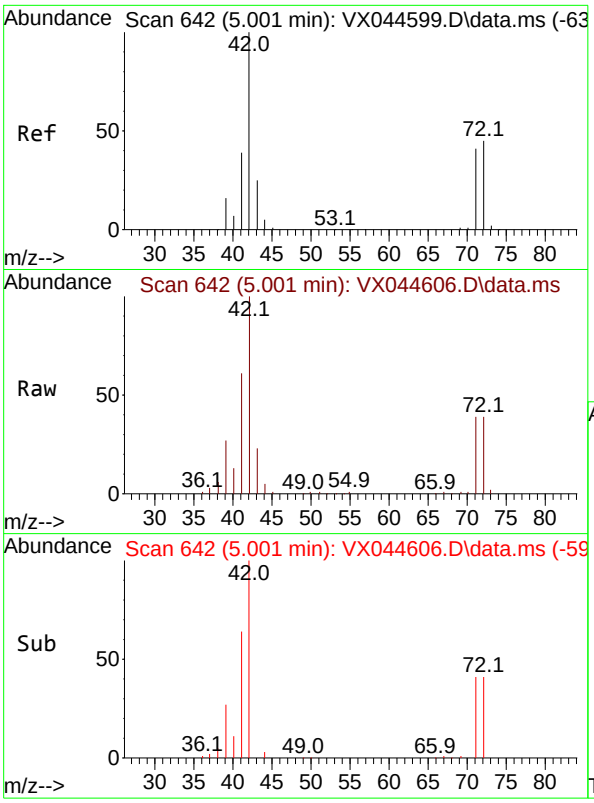


#28
Bromochloromethane
Concen: 18.464 ug/l
RT: 4.891 min Scan# 624
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 49 Resp: 42280

Ion	Ratio	Lower	Upper
49	100		
129	1.5	0.0	4.2
130	76.4	58.8	88.2



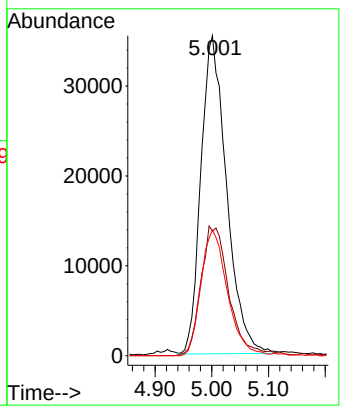


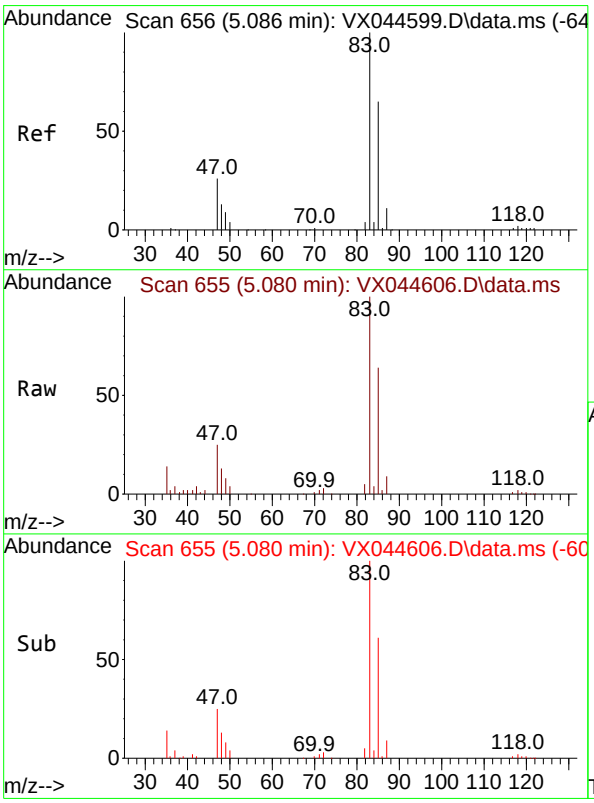
#29
Tetrahydrofuran
Concen: 100.421 ug/l
RT: 5.001 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Tgt Ion: 42 Resp: 111343

Ion	Ratio	Lower	Upper
42	100		
72	44.6	36.1	54.1
71	40.7	33.0	49.6

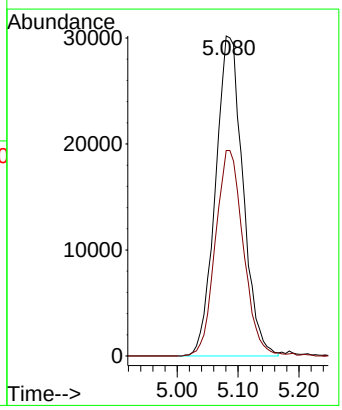


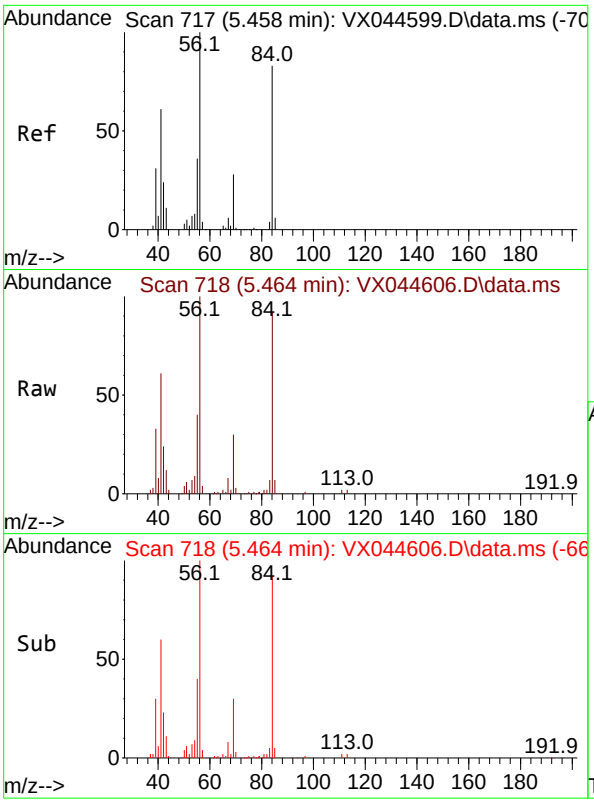


#30
Chloroform
Concen: 17.797 ug/l
RT: 5.080 min Scan# 655
Delta R.T. -0.006 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 83 Resp: 94379

Ion	Ratio	Lower	Upper
83	100		
85	64.2	52.3	78.5



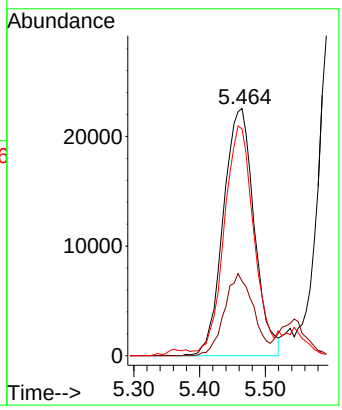


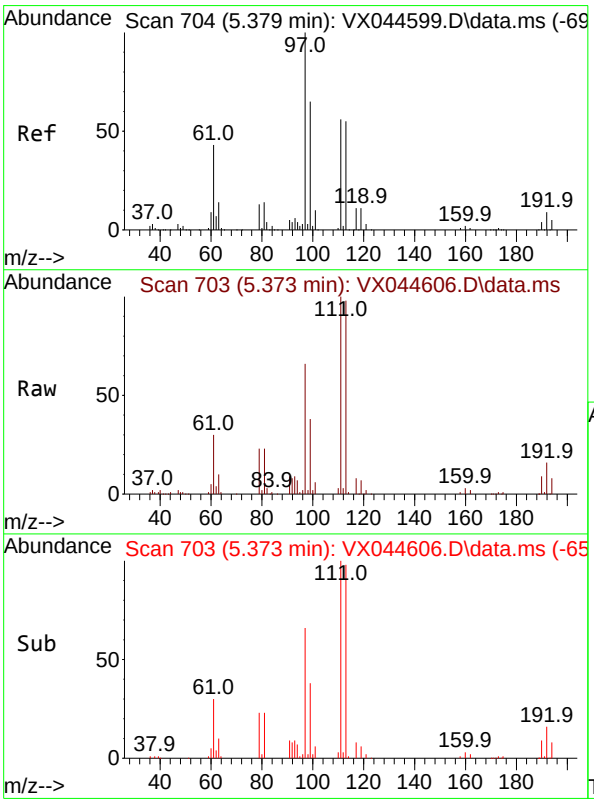
#31
Cyclohexane
Concen: 18.224 ug/l
RT: 5.464 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Tgt Ion: 56 Resp: 73605

Ion	Ratio	Lower	Upper
56	100		
69	30.1	22.2	33.4
84	89.6	66.6	100.0

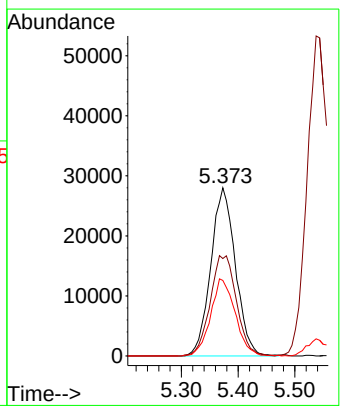


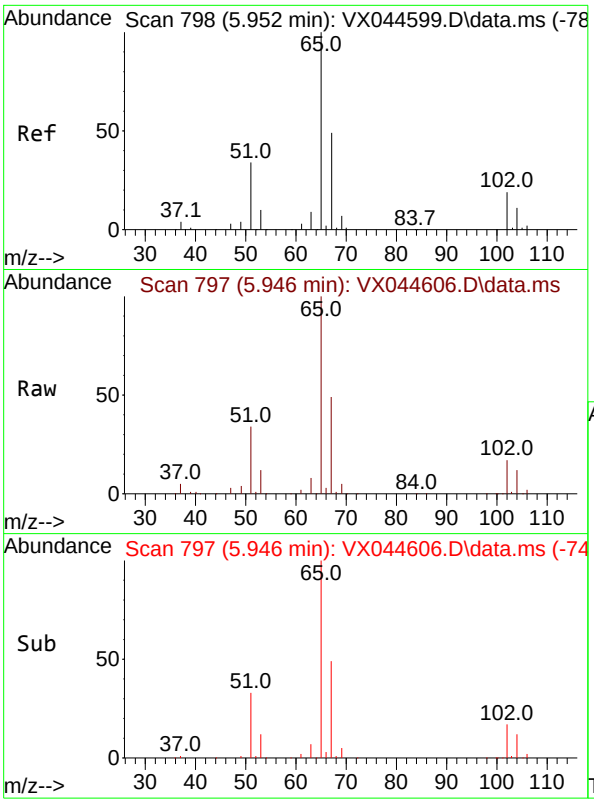


#32
1,1,1-Trichloroethane
Concen: 18.926 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.006 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 97 Resp: 84469

Ion	Ratio	Lower	Upper
97	100		
99	63.6	52.1	78.1
61	45.9	36.8	55.2



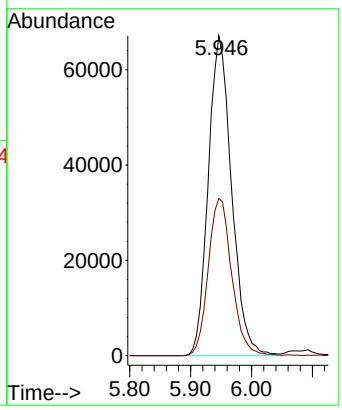


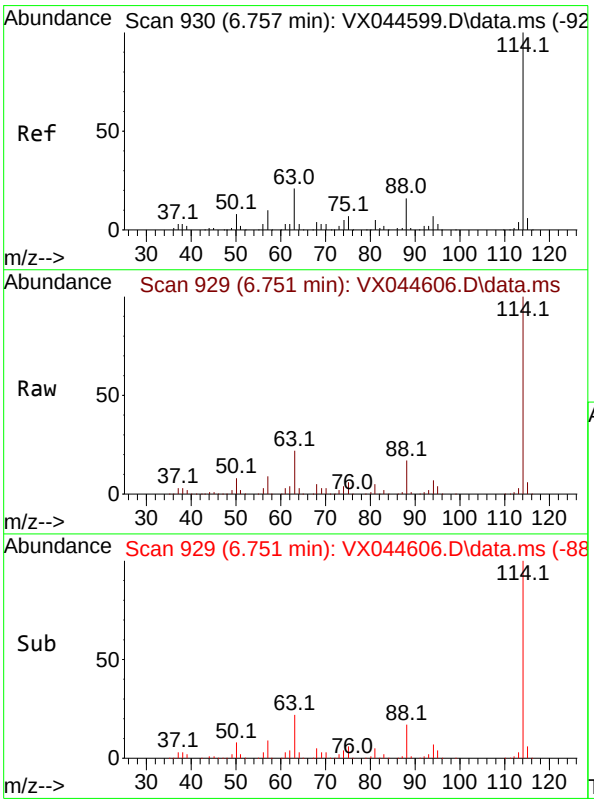
#33
1,2-Dichloroethane-d4
Concen: 50.209 ug/l
RT: 5.946 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Tgt Ion: 65 Resp: 178695

Ion	Ratio	Lower	Upper
65	100		
67	49.5	0.0	99.0

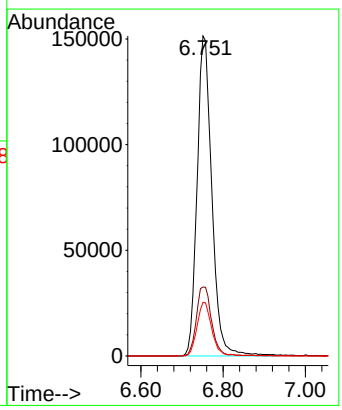


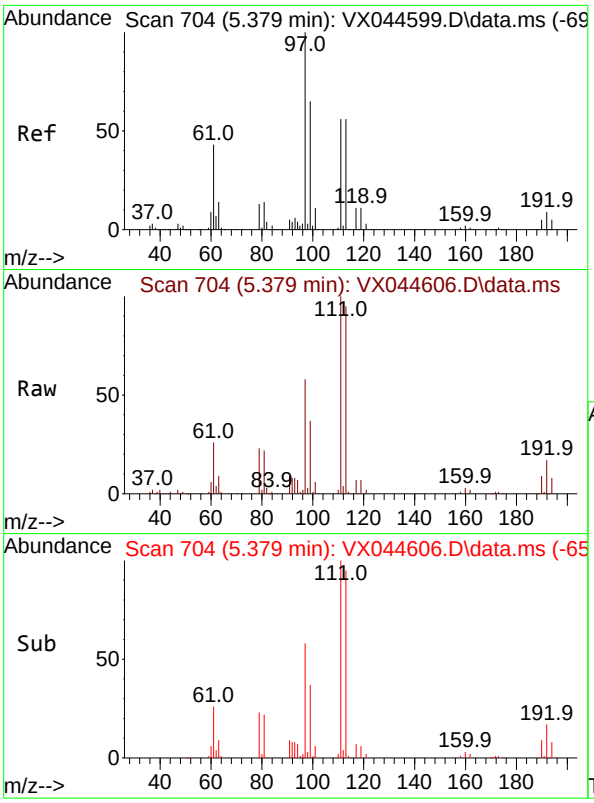


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. -0.006 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion:114 Resp: 377450

Ion	Ratio	Lower	Upper
114	100		
63	21.5	0.0	42.6
88	16.8	0.0	32.6



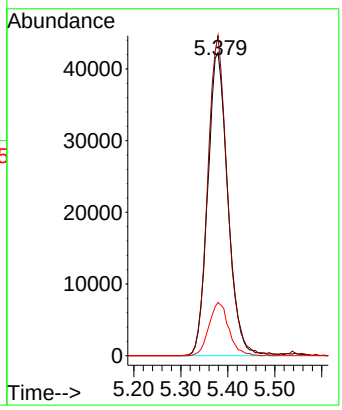


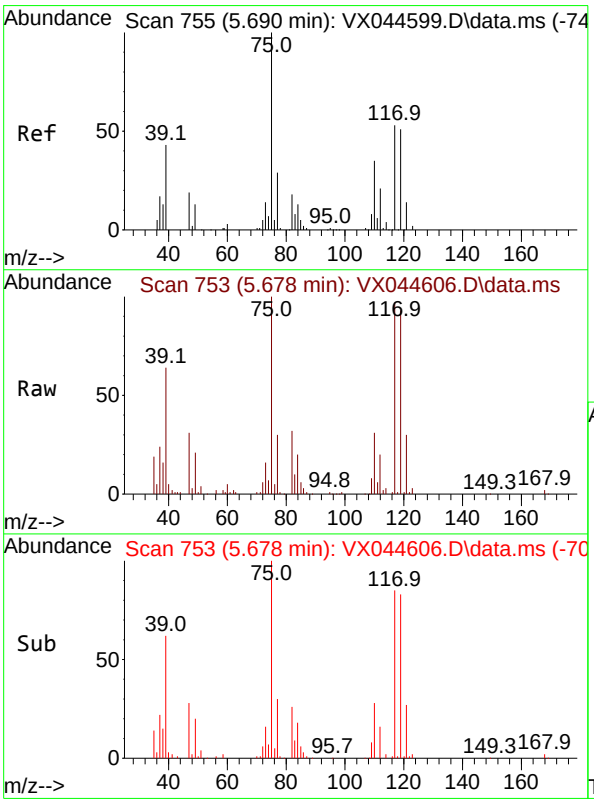
#35
Dibromofluoromethane
Concen: 48.518 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Tgt Ion:113 Resp: 125576

Ion	Ratio	Lower	Upper
113	100		
111	103.2	83.3	124.9
192	17.3	14.3	21.5

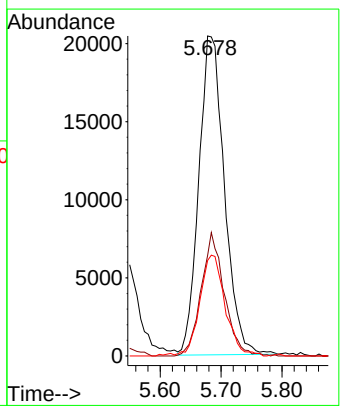


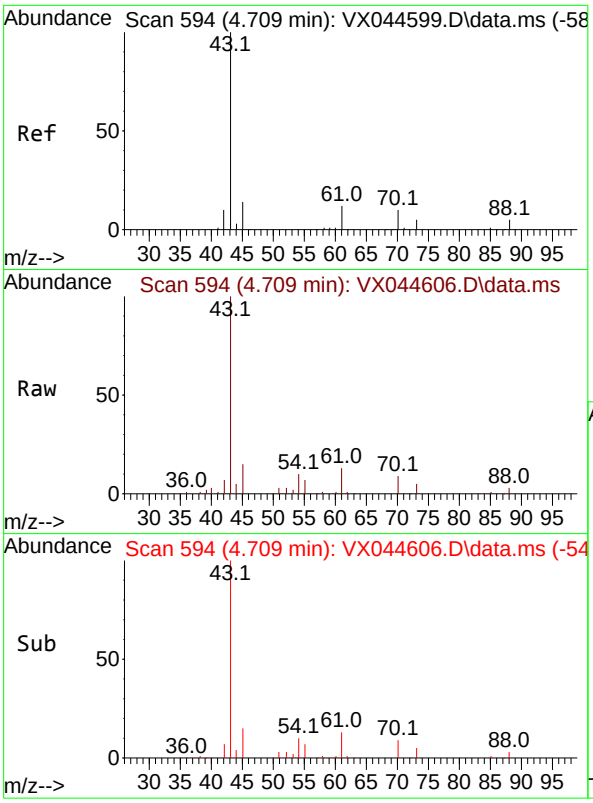


#36
1,1-Dichloropropene
Concen: 17.813 ug/l
RT: 5.678 min Scan# 753
Delta R.T. -0.012 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 75 Resp: 59615

Ion	Ratio	Lower	Upper
75	100		
110	34.9	17.3	51.9
77	31.4	24.7	37.1



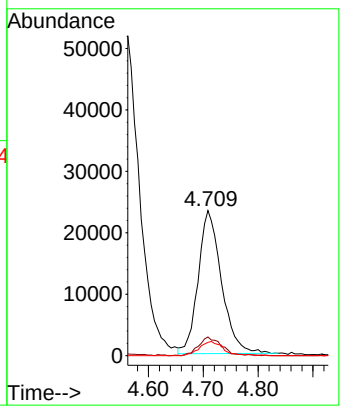


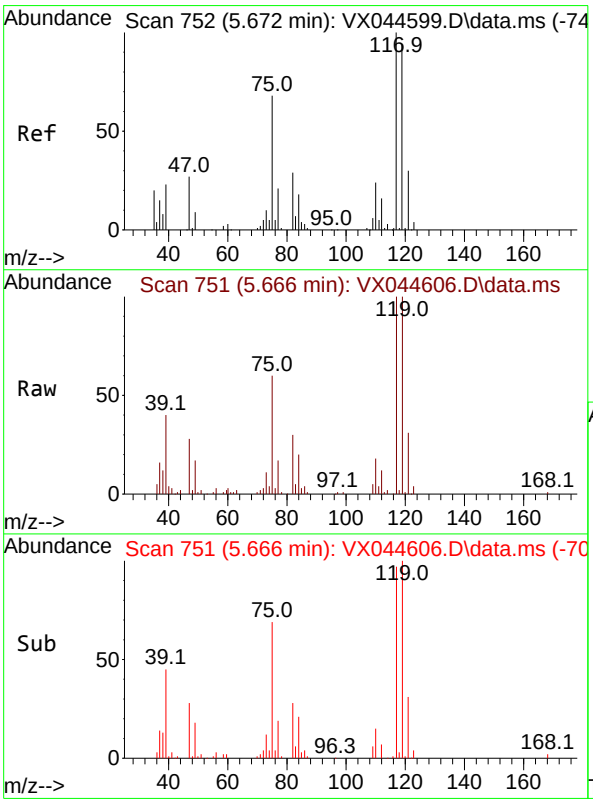
#37
Ethyl Acetate
Concen: 20.080 ug/l
RT: 4.709 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Tgt Ion: 43 Resp: 68748

Ion	Ratio	Lower	Upper
43	100		
61	13.0	9.9	14.9
70	10.0	8.0	12.0

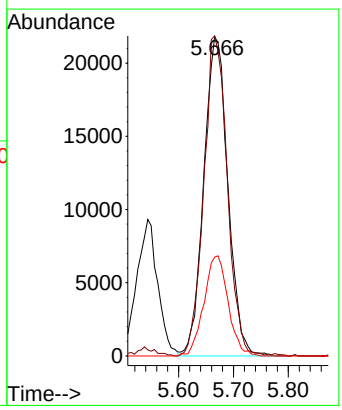


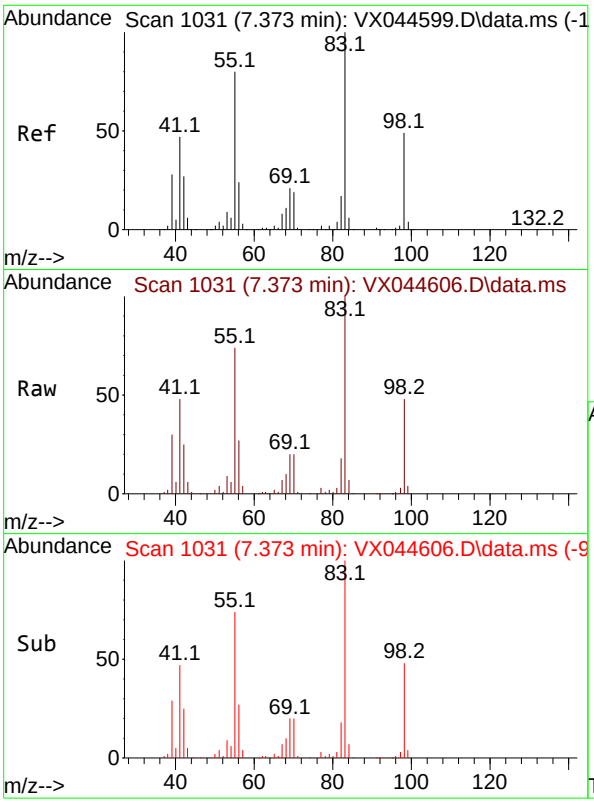


#38
Carbon Tetrachloride
Concen: 17.931 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion:117 Resp: 66584

Ion	Ratio	Lower	Upper
117	100		
119	100.2	74.5	111.7
121	31.0	24.1	36.1



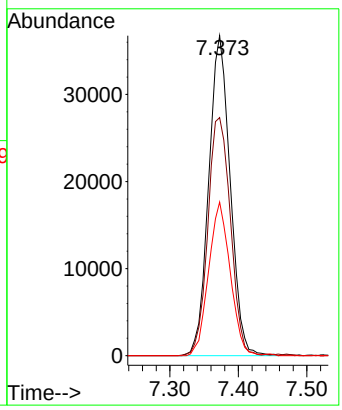


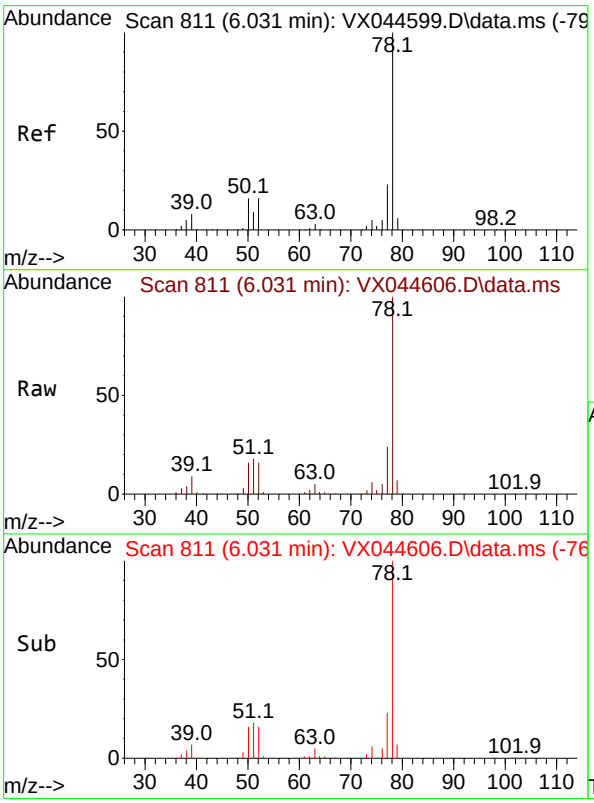
#39
Methylcyclohexane
Concen: 18.714 ug/l
RT: 7.373 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Tgt Ion: 83 Resp: 79915

Ion	Ratio	Lower	Upper
83	100		
55	74.4	64.1	96.1
98	48.0	38.9	58.3

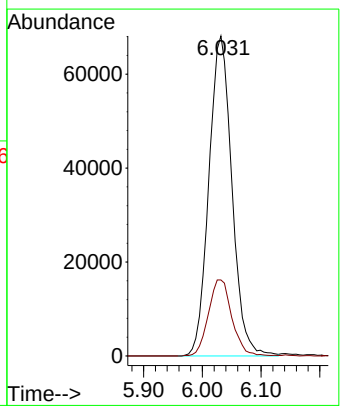


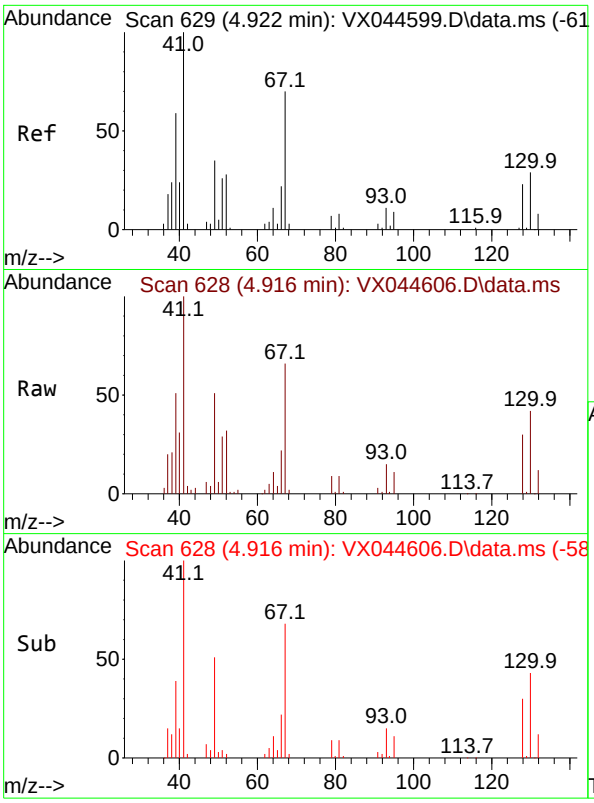


#40
Benzene
Concen: 17.621 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 78 Resp: 185689

Ion	Ratio	Lower	Upper
78	100		
77	23.8	18.8	28.2



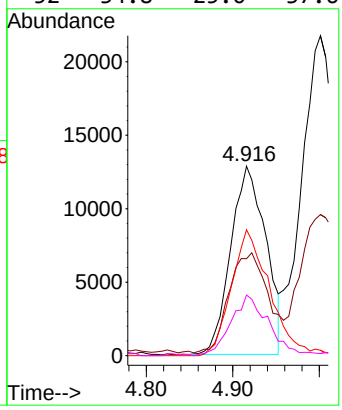


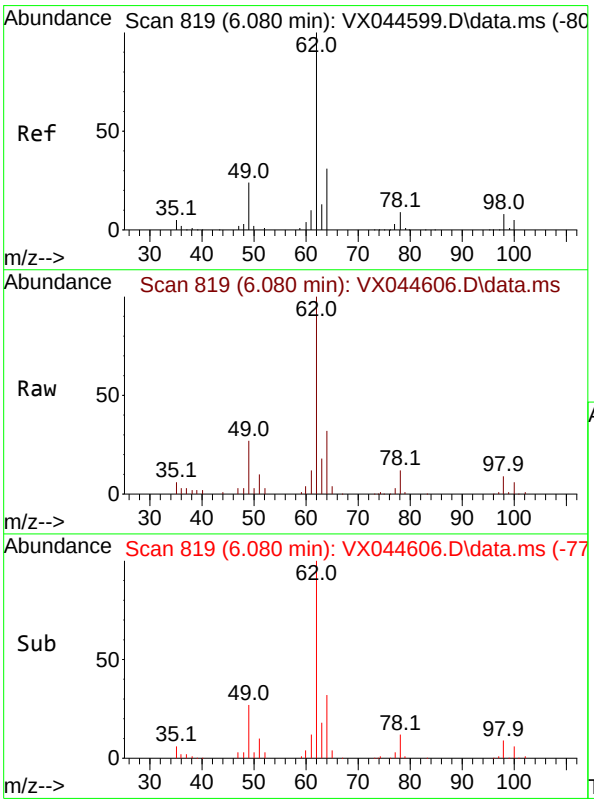
#41
Methacrylonitrile
Concen: 19.687 ug/l
RT: 4.916 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Tgt Ion: 41 Resp: 36179

Ion	Ratio	Lower	Upper
41	100		
39	59.9	47.0	70.4
67	73.6	57.4	86.2
52	34.8	25.0	37.6

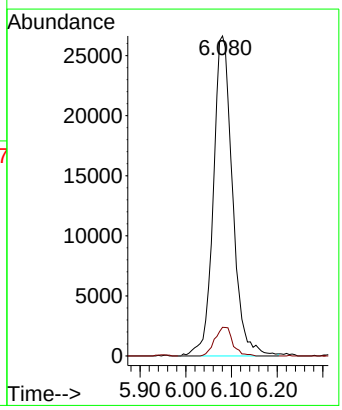


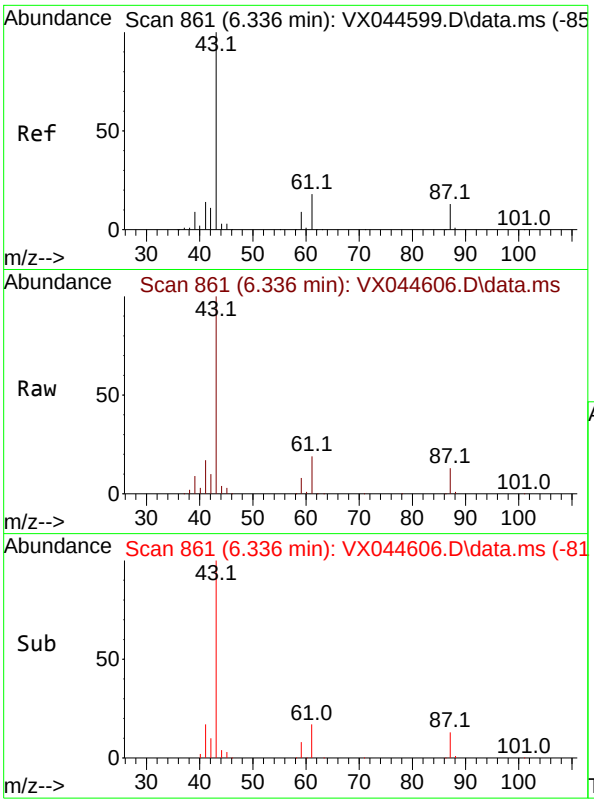


#42
1,2-Dichloroethane
Concen: 18.887 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 62 Resp: 77836

Ion	Ratio	Lower	Upper
62	100		
98	8.3	0.0	15.8



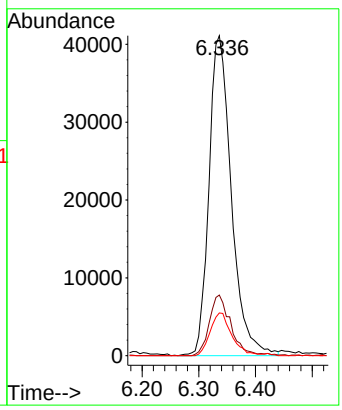


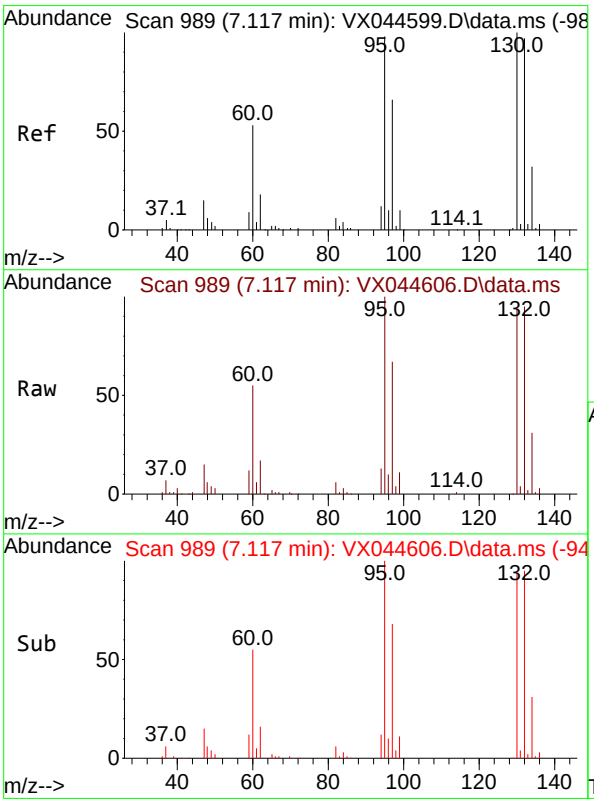
#43
Isopropyl Acetate
Concen: 19.972 ug/l
RT: 6.336 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Tgt Ion: 43 Resp: 112810

Ion	Ratio	Lower	Upper
43	100		
61	18.3	14.5	21.7
87	12.8	10.1	15.1

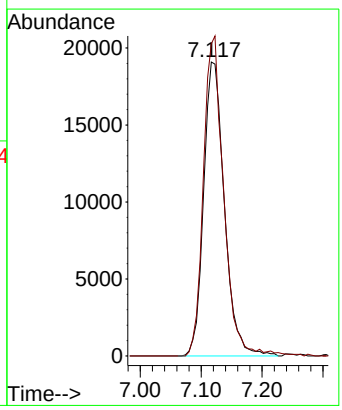


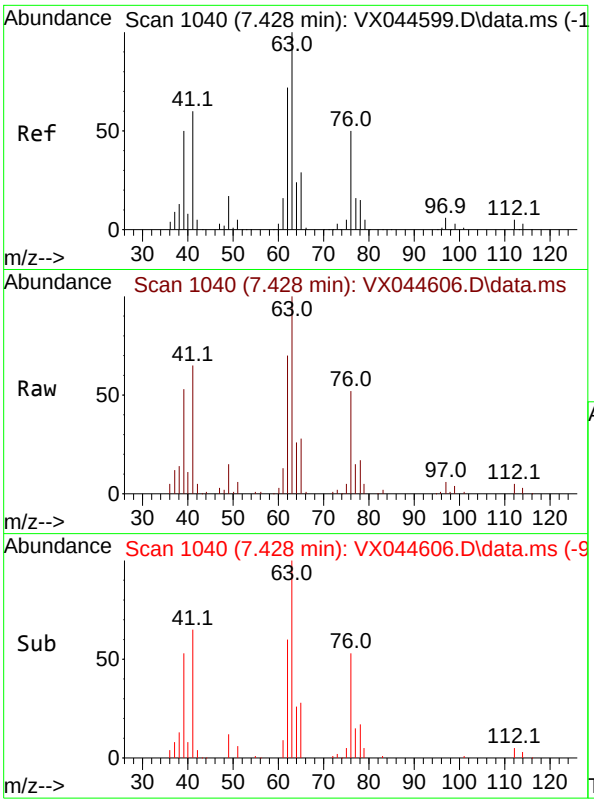


#44
Trichloroethene
Concen: 16.798 ug/l
RT: 7.117 min Scan# 989
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion:130 Resp: 45250

Ion	Ratio	Lower	Upper
130	100		
95	106.2	0.0	195.6



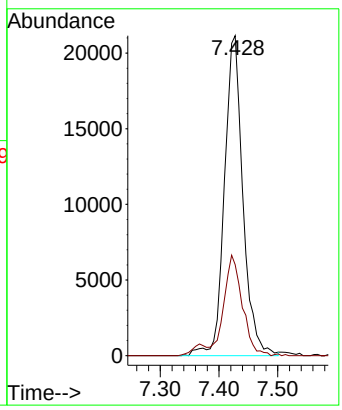


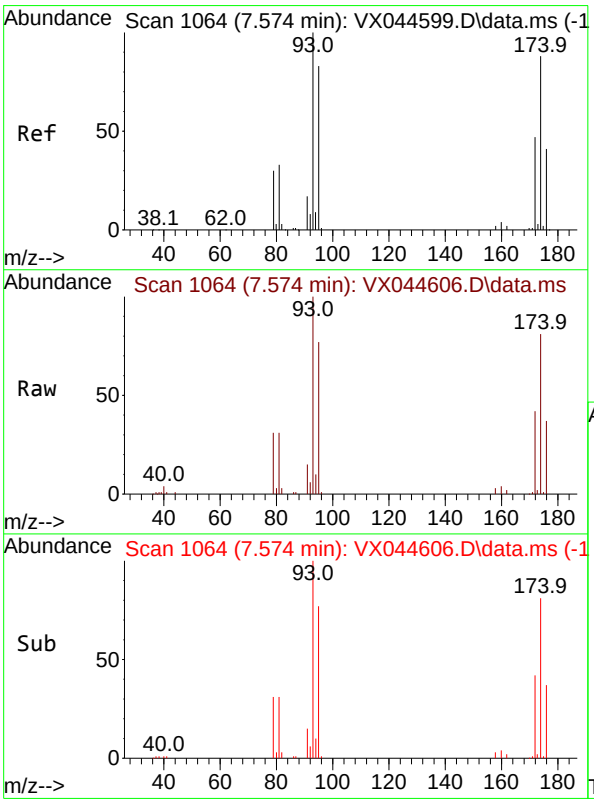
#45
1,2-Dichloropropane
Concen: 18.026 ug/l
RT: 7.428 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Tgt Ion: 63 Resp: 46312

Ion	Ratio	Lower	Upper
63	100		
65	28.5	23.0	34.4

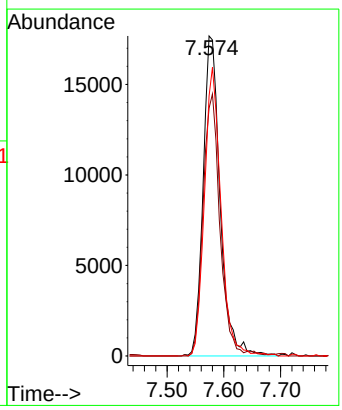


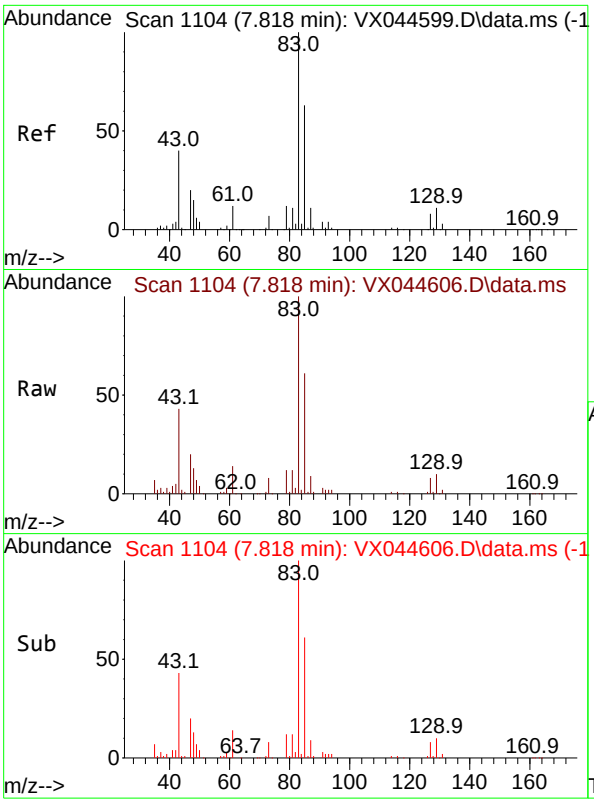


#46
Dibromomethane
Concen: 18.379 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 93 Resp: 36722

Ion	Ratio	Lower	Upper
93	100		
95	81.0	65.8	98.6
174	87.6	73.4	110.0



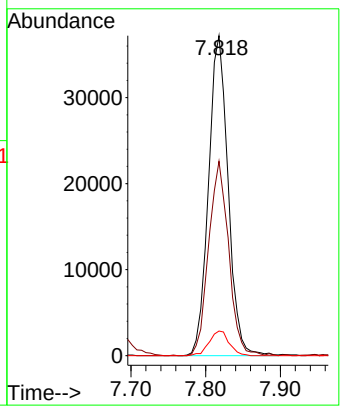


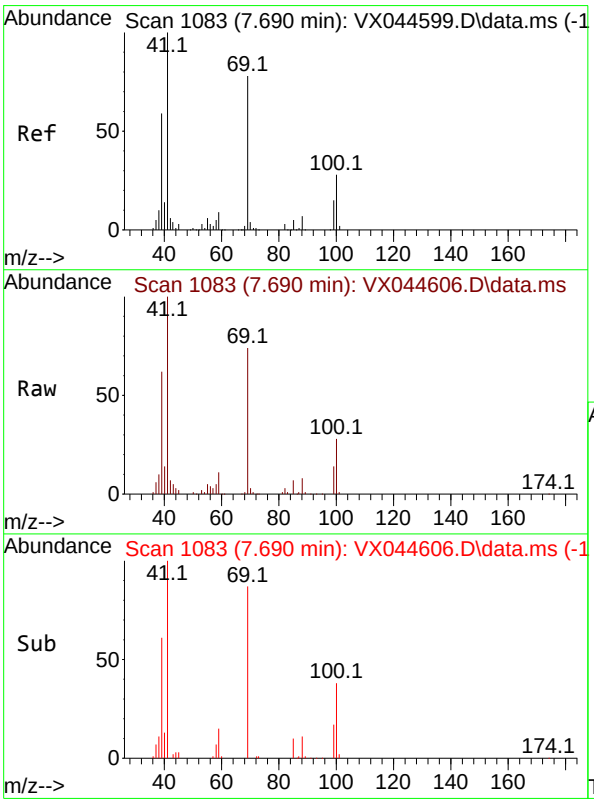
#47
Bromodichloromethane
Concen: 18.612 ug/l
RT: 7.818 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Tgt Ion: 83 Resp: 67673

Ion	Ratio	Lower	Upper
83	100		
85	60.7	50.4	75.6
127	7.7	6.2	9.4

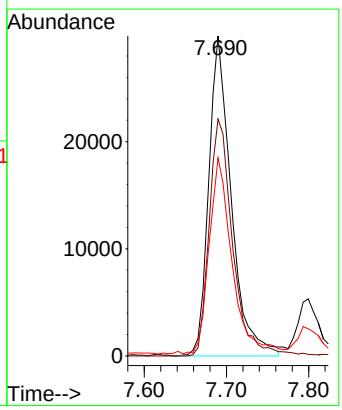


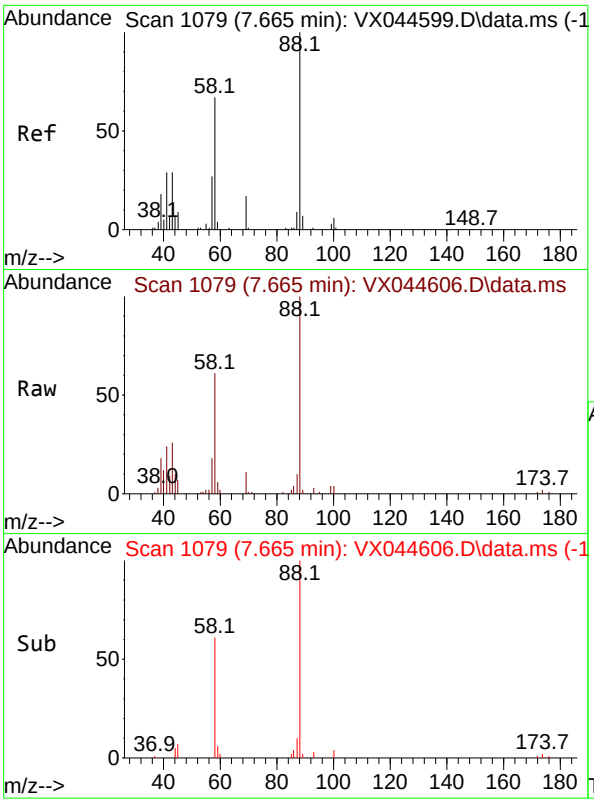


#48
Methyl methacrylate
Concen: 21.108 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 41 Resp: 56864

Ion	Ratio	Lower	Upper
41	100		
69	77.5	62.9	94.3
39	62.1	48.9	73.3



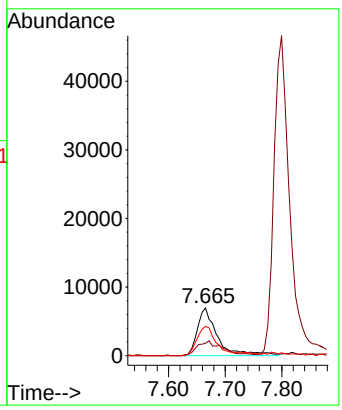


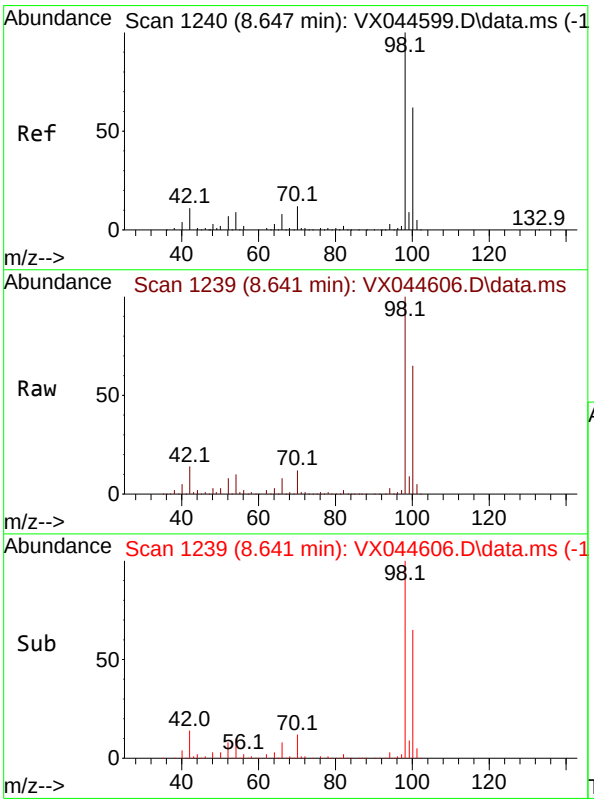
#49
1,4-Dioxane
Concen: 432.961 ug/l
RT: 7.665 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Tgt Ion: 88 Resp: 17140

Ion	Ratio	Lower	Upper
88	100		
43	38.7	29.5	44.3
58	58.5	56.3	84.5

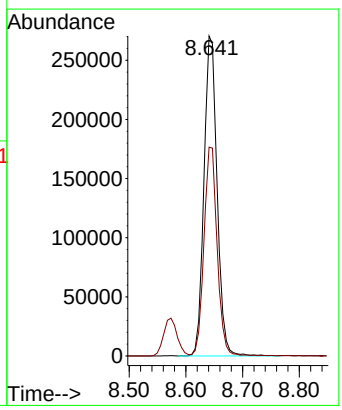


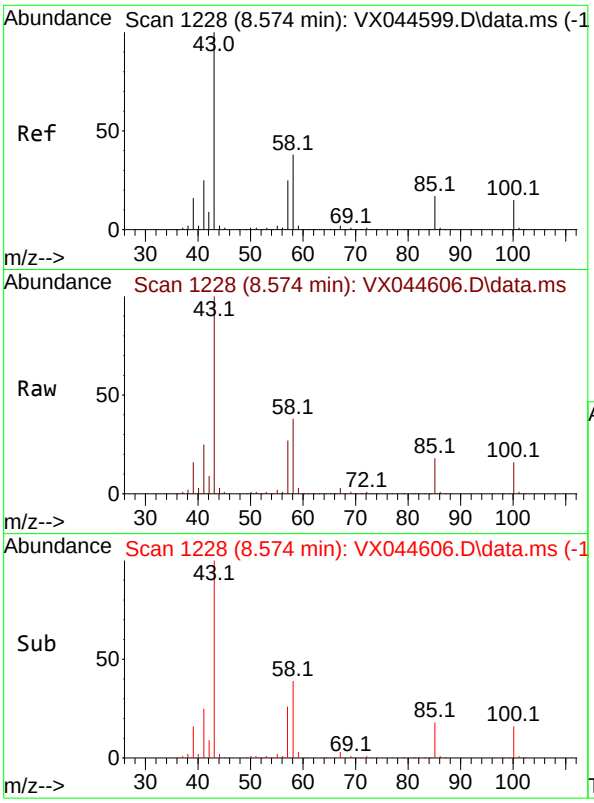


#50
Toluene-d8
Concen: 49.256 ug/l
RT: 8.641 min Scan# 1239
Delta R.T. -0.006 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 98 Resp: 435468

Ion	Ratio	Lower	Upper
98	100		
100	65.2	52.5	78.7



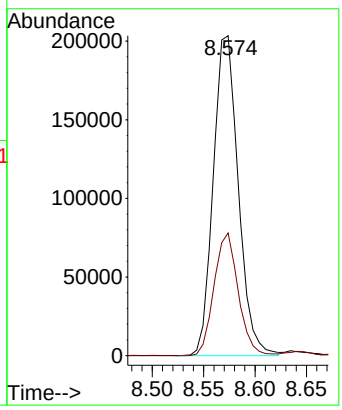


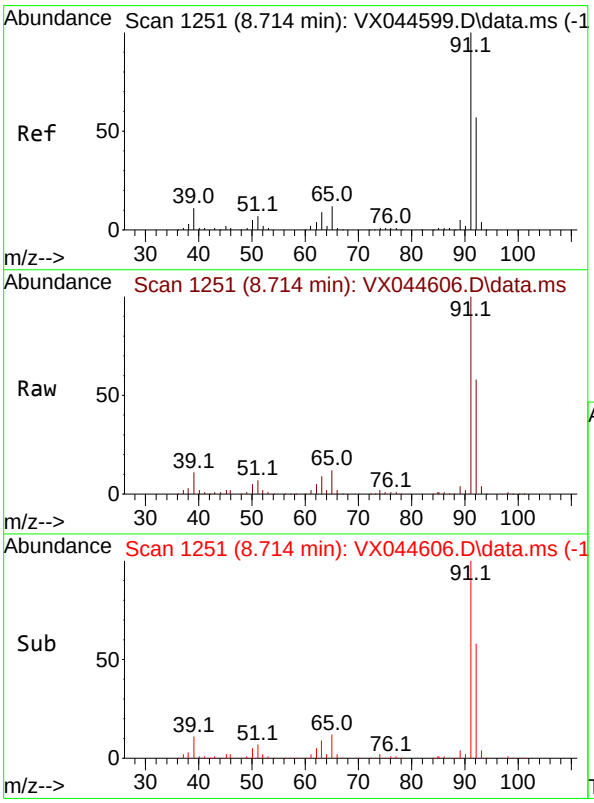
#51
4-Methyl-2-Pentanone
Concen: 104.227 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Tgt Ion: 43 Resp: 344130

Ion	Ratio	Lower	Upper
43	100		
58	37.2	30.0	45.0

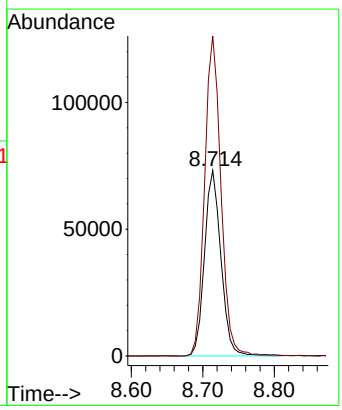


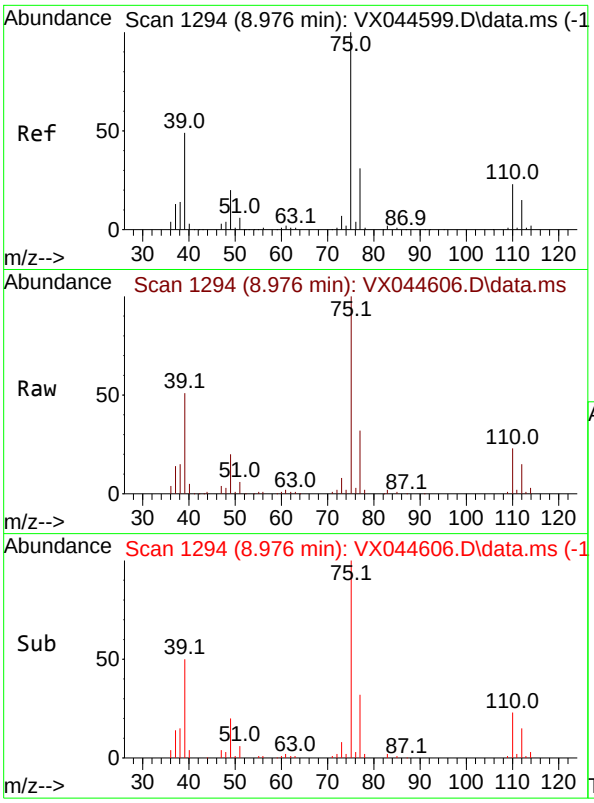


#52
Toluene
Concen: 18.356 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 92 Resp: 116712

Ion	Ratio	Lower	Upper
92	100		
91	171.5	140.6	210.8



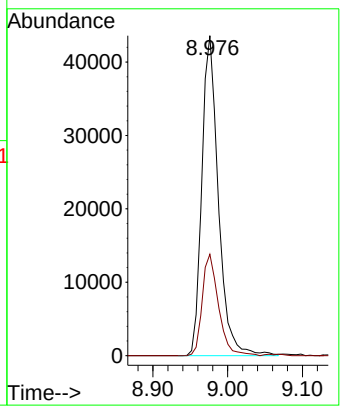


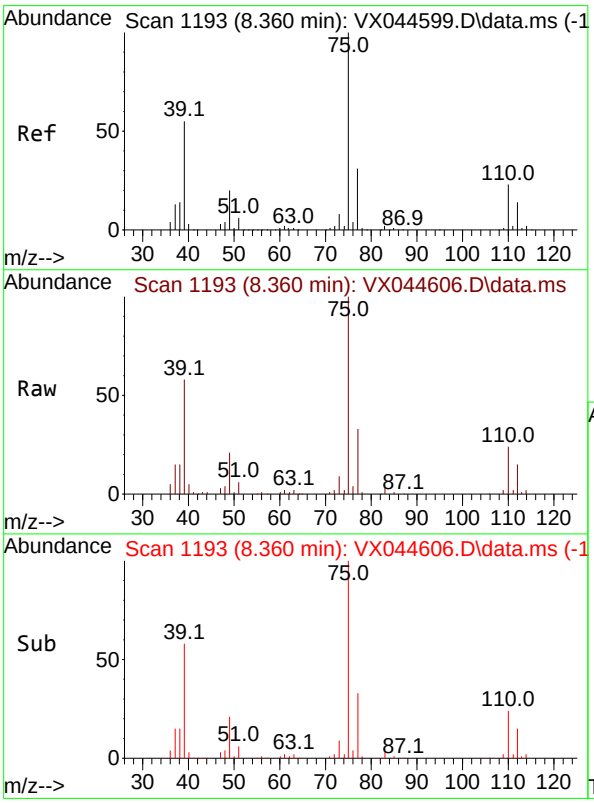
#53
t-1,3-Dichloropropene
Concen: 19.300 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Tgt Ion: 75 Resp: 67077

Ion	Ratio	Lower	Upper
75	100		
77	31.7	24.8	37.2

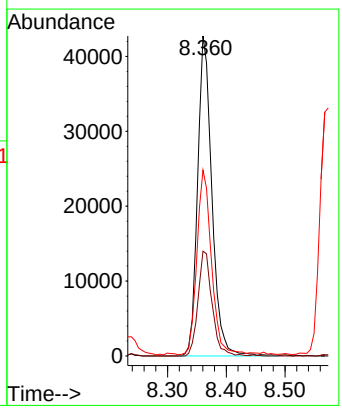


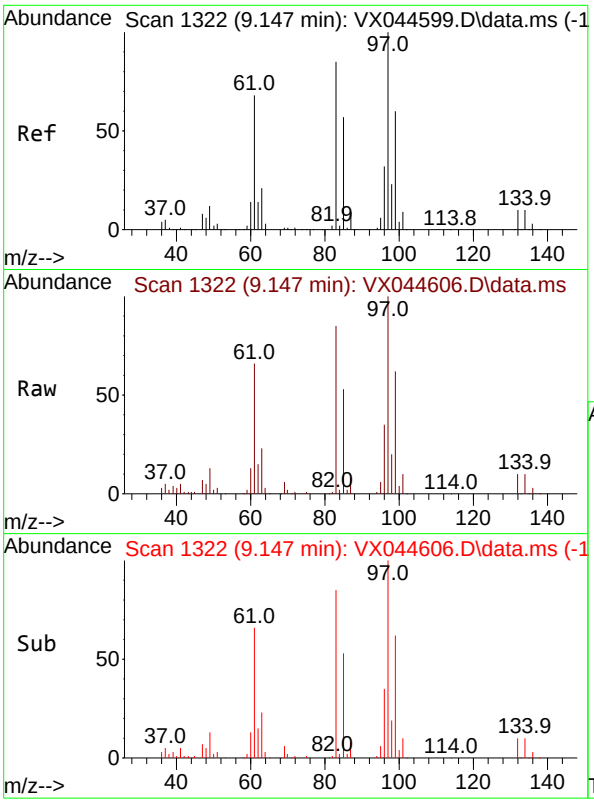


#54
cis-1,3-Dichloropropene
Concen: 18.556 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 75 Resp: 72482

Ion	Ratio	Lower	Upper
75	100		
77	32.8	24.5	36.7
39	57.7	44.3	66.5



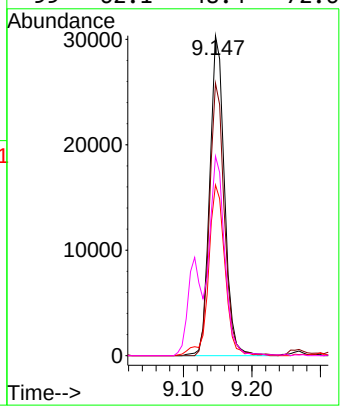


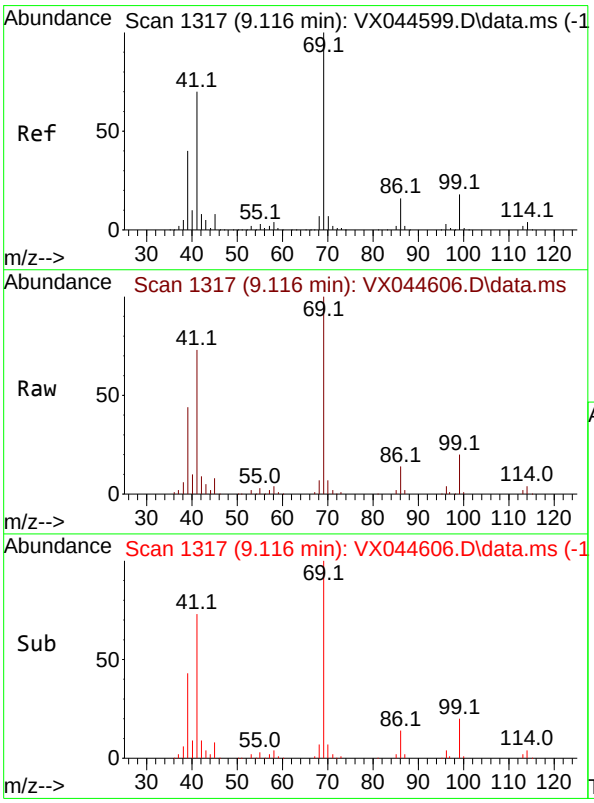
#55
1,1,2-Trichloroethane
Concen: 18.303 ug/l
RT: 9.147 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Tgt Ion: 97 Resp: 45623

Ion	Ratio	Lower	Upper
97	100		
83	85.2	68.0	102.0
85	53.4	45.4	68.0
99	62.1	48.4	72.6

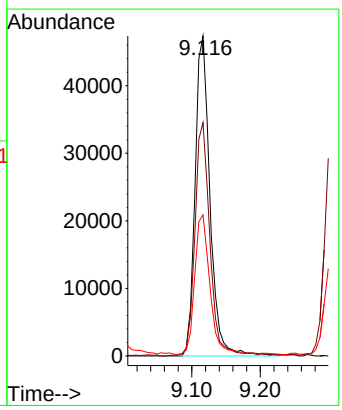


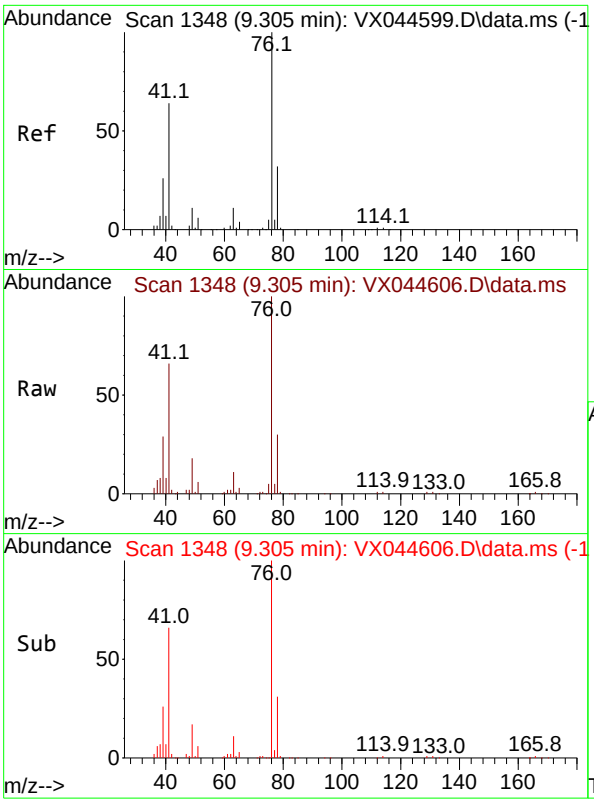


#56
Ethyl methacrylate
Concen: 19.791 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 69 Resp: 71741

Ion	Ratio	Lower	Upper
69	100		
41	73.6	57.7	86.5
39	44.4	33.7	50.5



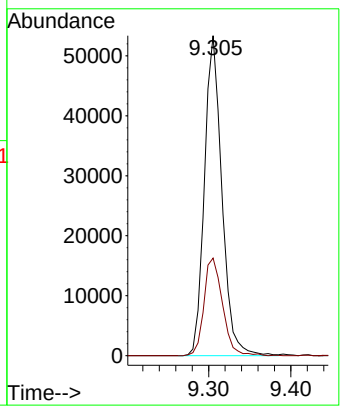


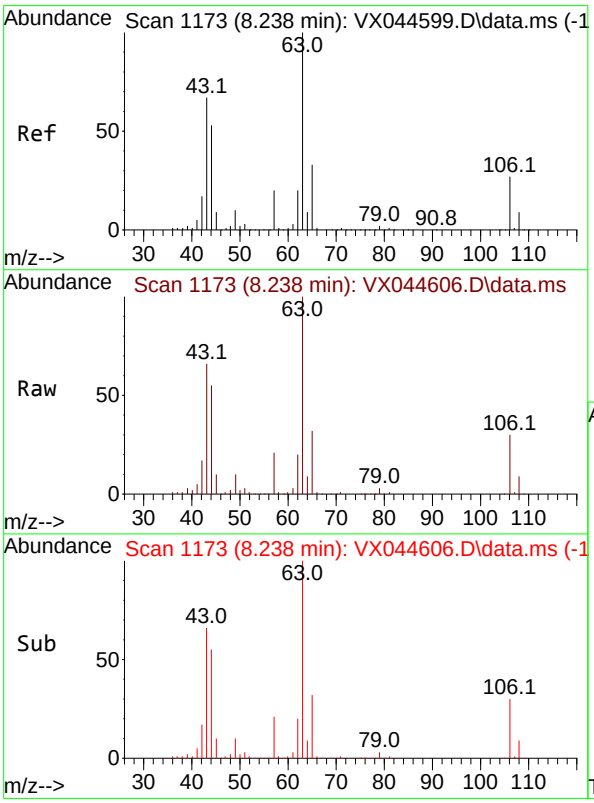
#57
1,3-Dichloropropane
Concen: 18.819 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Tgt Ion: 76 Resp: 78769

Ion	Ratio	Lower	Upper
76	100		
78	32.4	25.8	38.8

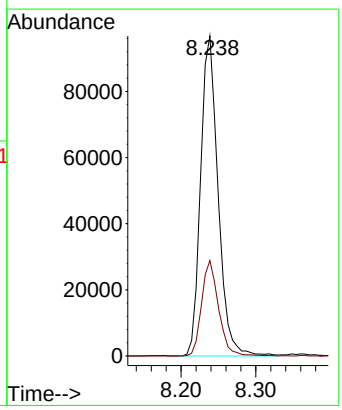


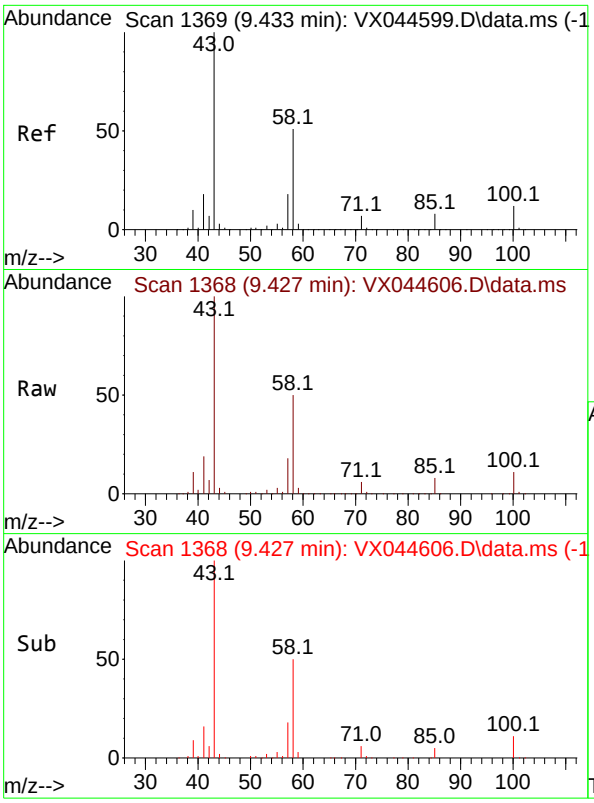


#58
2-Chloroethyl Vinyl ether
Concen: 87.493 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 63 Resp: 157231

Ion	Ratio	Lower	Upper
63	100		
106	28.8	22.4	33.6



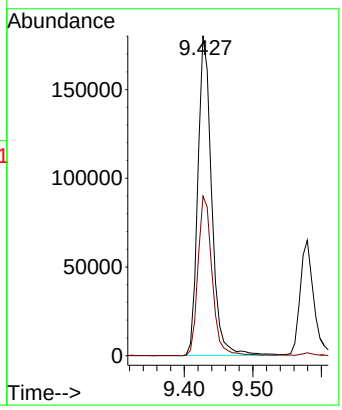


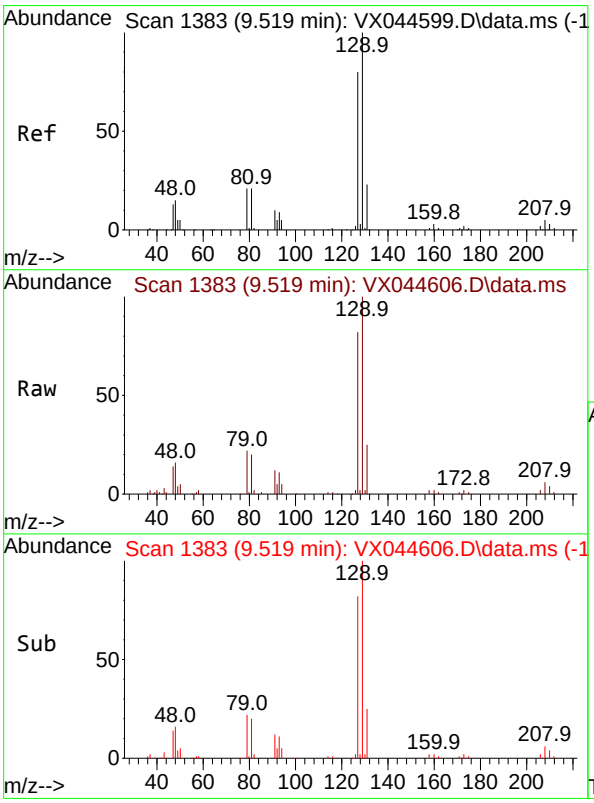
#59
2-Hexanone
Concen: 108.615 ug/l
RT: 9.427 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Tgt Ion: 43 Resp: 253622

Ion	Ratio	Lower	Upper
43	100		
58	51.2	25.4	76.4

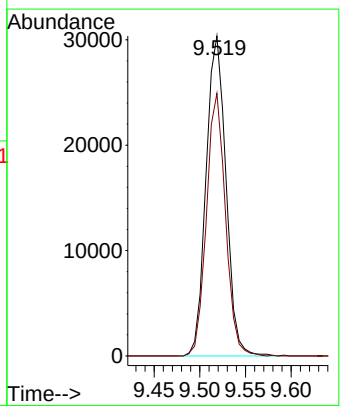


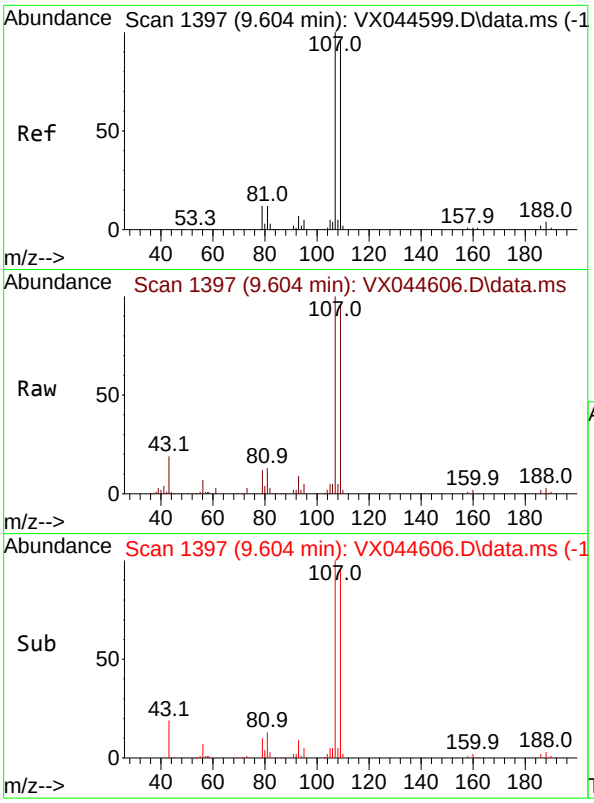


#60
Dibromochloromethane
Concen: 18.434 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion:129 Resp: 45815

Ion	Ratio	Lower	Upper
129	100		
127	78.6	38.9	116.7



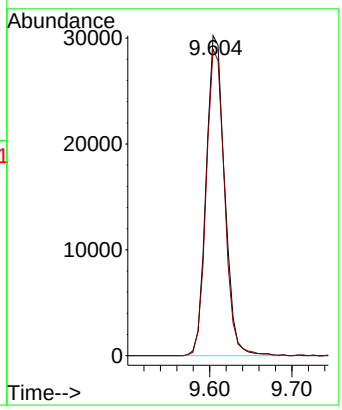


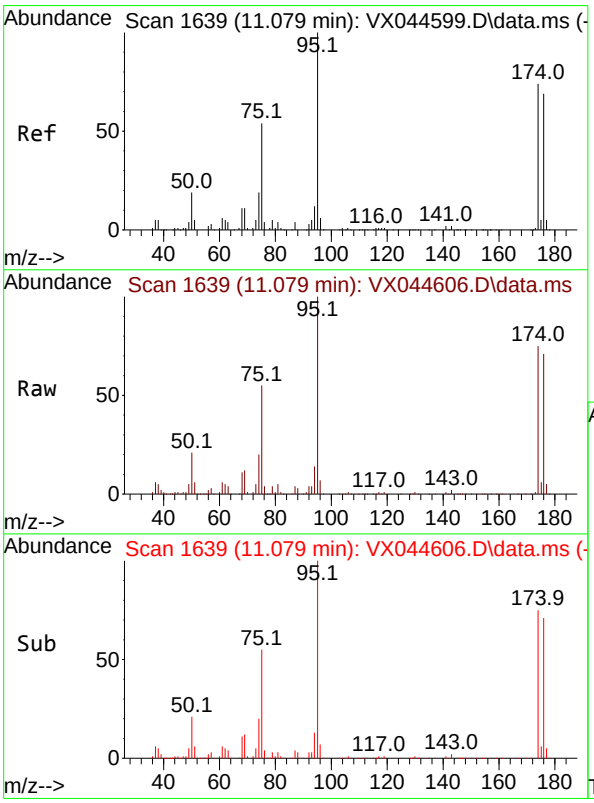
#61
1,2-Dibromoethane
Concen: 18.696 ug/l
RT: 9.604 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Tgt Ion:107 Resp: 47065

Ion	Ratio	Lower	Upper
107	100		
109	95.3	76.7	115.1

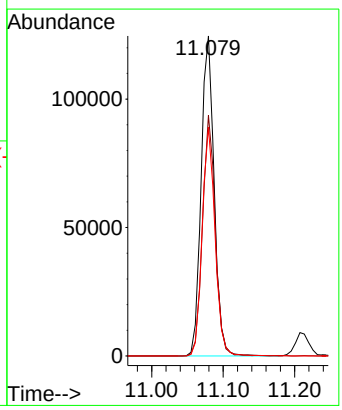


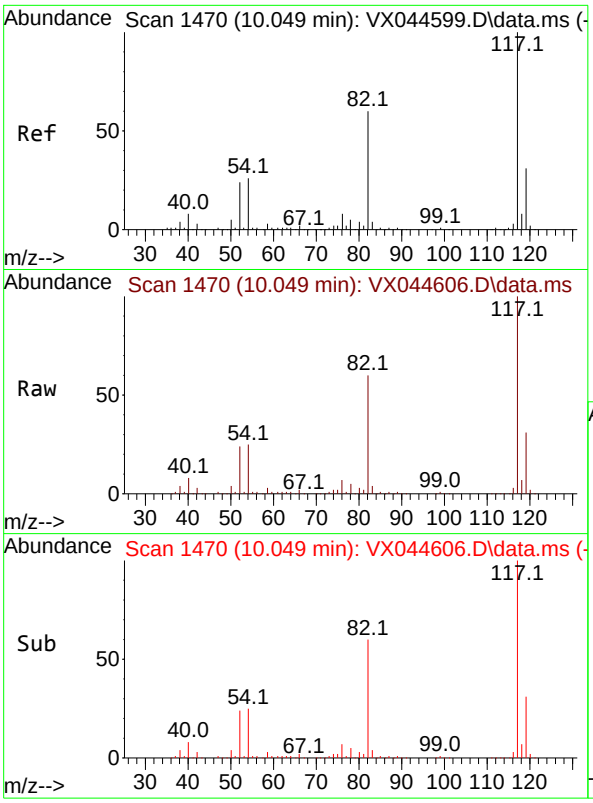


#62
4-Bromofluorobenzene
Concen: 50.462 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 95 Resp: 157465

Ion	Ratio	Lower	Upper
95	100		
174	73.7	0.0	148.8
176	70.7	0.0	139.8



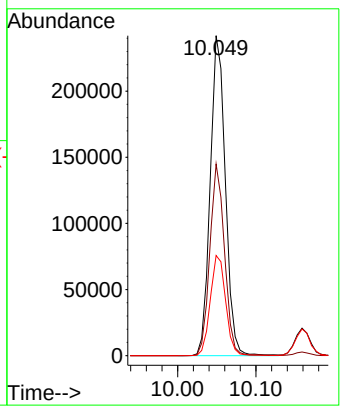


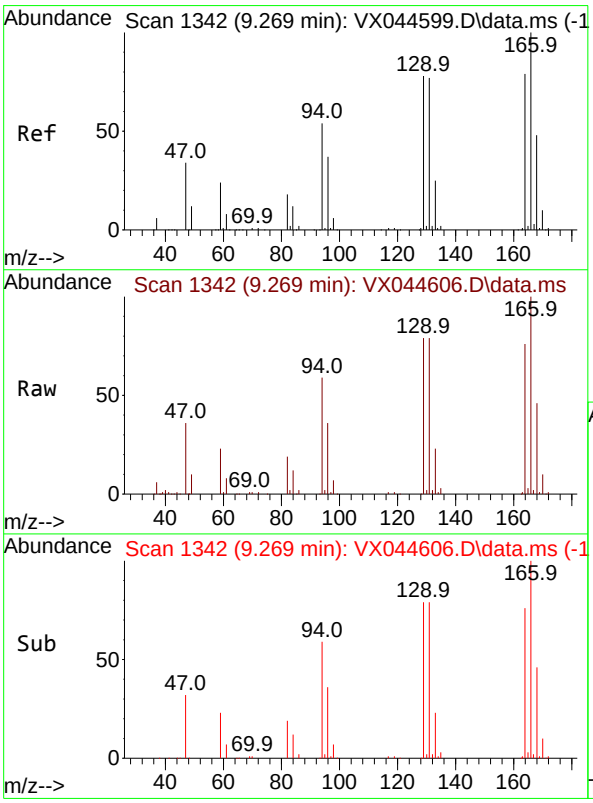
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Tgt Ion:117 Resp: 324333

Ion	Ratio	Lower	Upper
117	100		
82	59.9	47.8	71.6
119	31.3	25.0	37.6

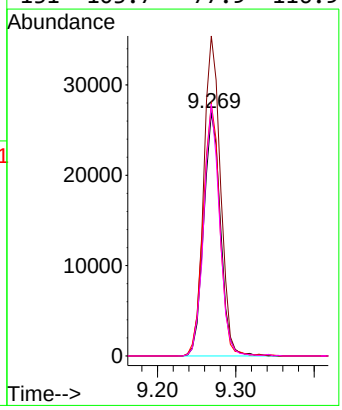


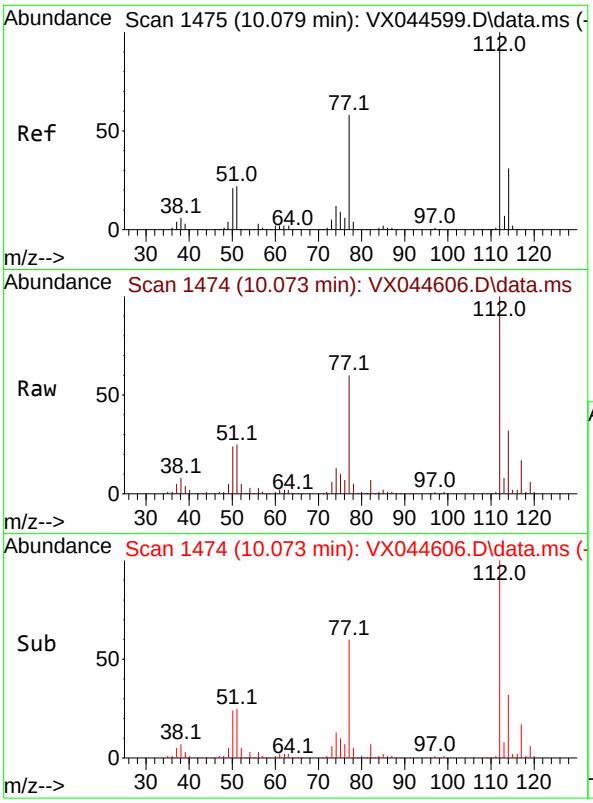


#64
Tetrachloroethene
Concen: 17.340 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion:164 Resp: 39764

Ion	Ratio	Lower	Upper
164	100		
166	131.7	101.5	152.3
129	103.8	78.9	118.3
131	103.7	77.9	116.9



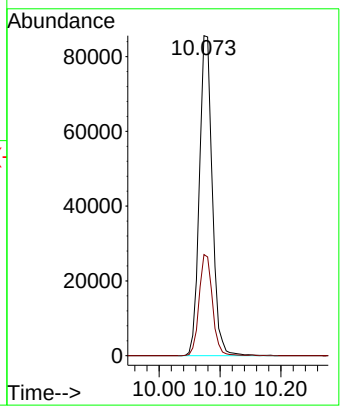


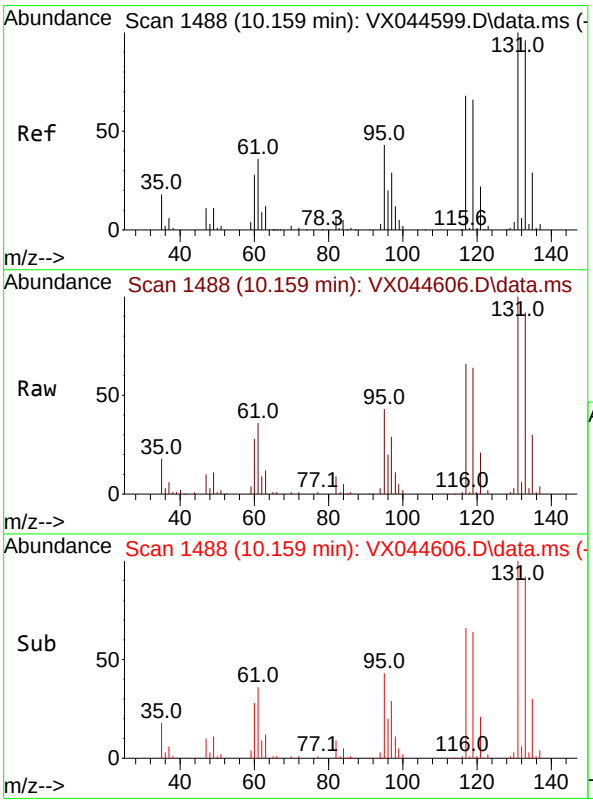
#65
Chlorobenzene
Concen: 18.278 ug/l
RT: 10.073 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Tgt Ion:112 Resp: 125819

Ion	Ratio	Lower	Upper
112	100		
114	31.6	25.0	37.4

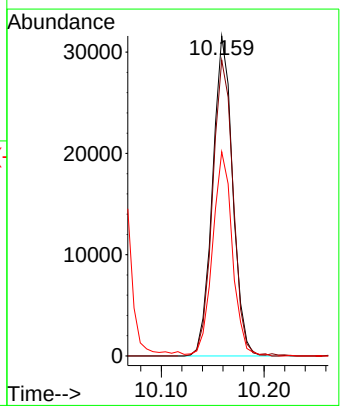


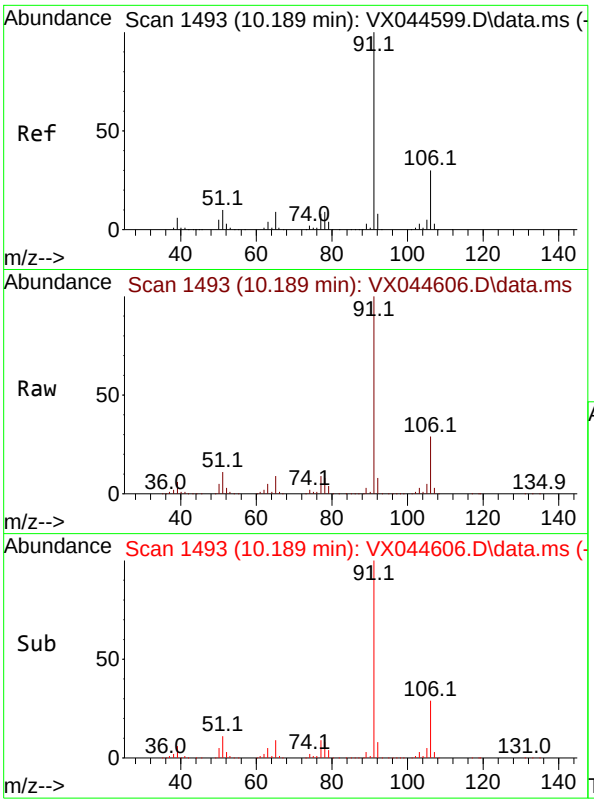


#66
1,1,1,2-Tetrachloroethane
Concen: 18.761 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion:131 Resp: 42891

Ion	Ratio	Lower	Upper
131	100		
133	94.4	48.0	144.0
119	62.9	32.8	98.4



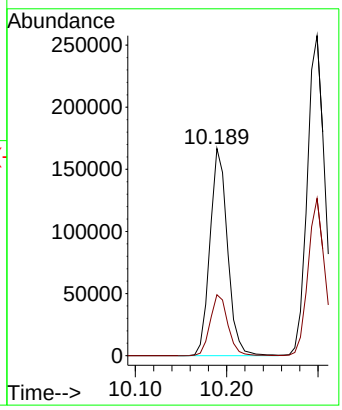


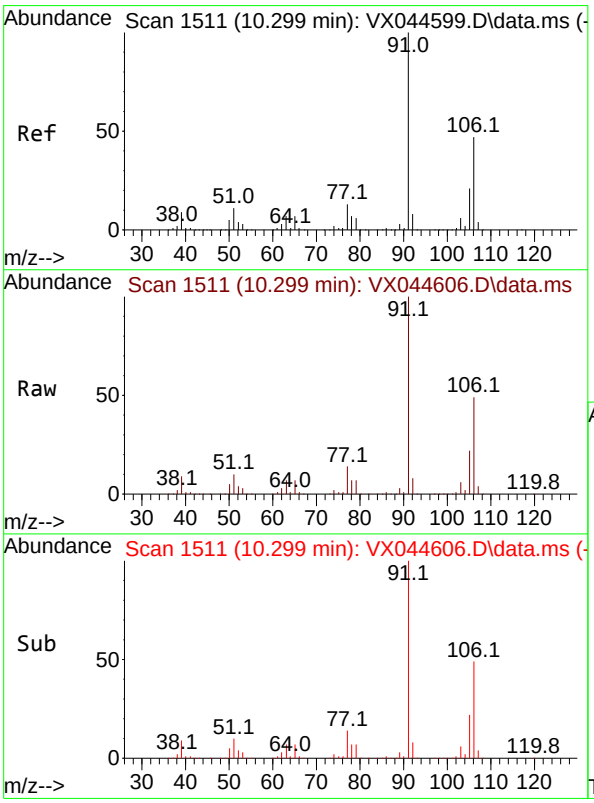
#67
Ethyl Benzene
Concen: 18.804 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Tgt Ion: 91 Resp: 222270

Ion	Ratio	Lower	Upper
91	100		
106	29.4	23.8	35.8

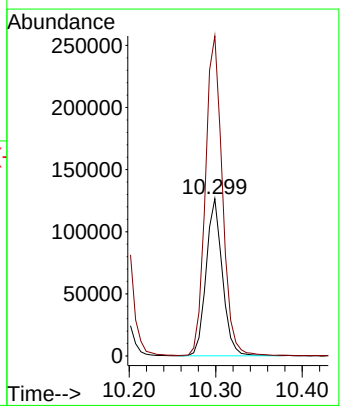


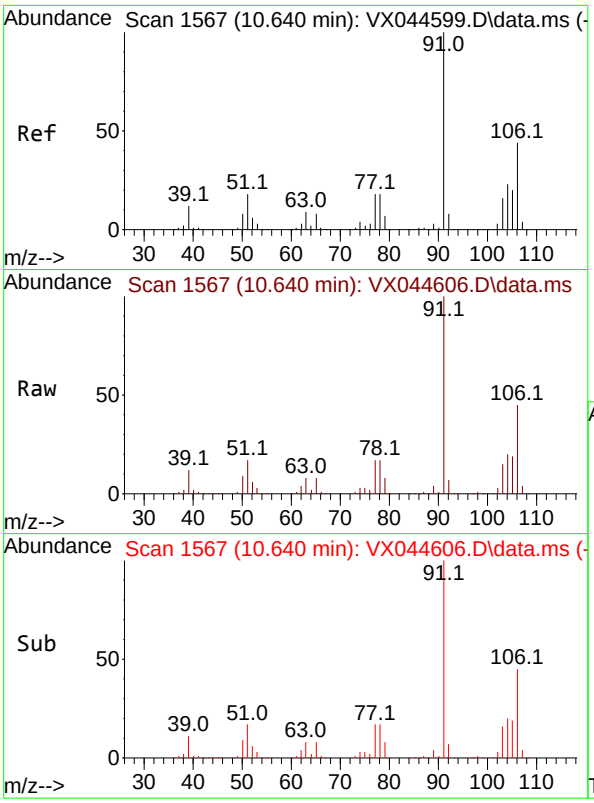


#68
m/p-Xylenes
Concen: 38.006 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion:106 Resp: 165085

Ion	Ratio	Lower	Upper
106	100		
91	212.1	170.4	255.6



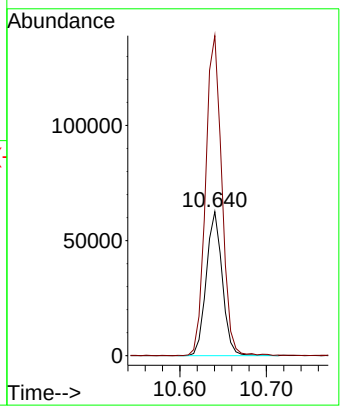


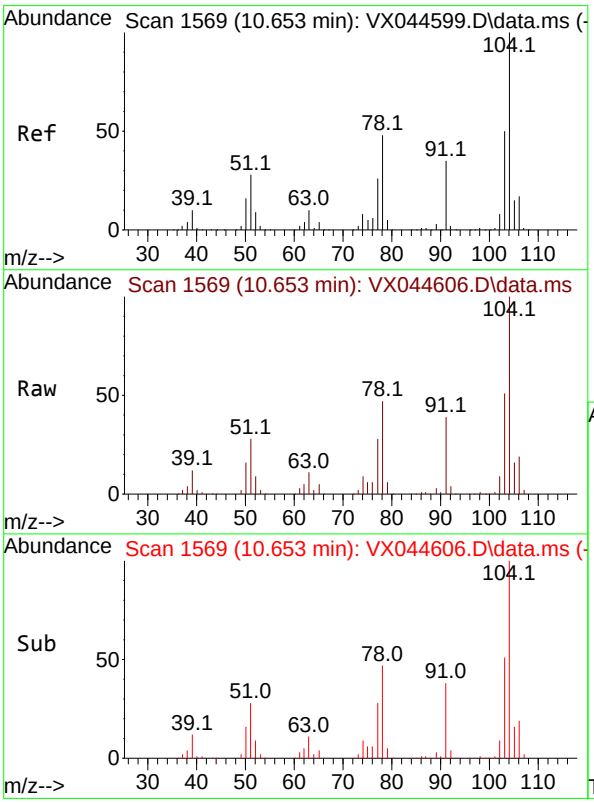
#69
o-Xylene
Concen: 18.274 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Tgt Ion:106 Resp: 80120

Ion	Ratio	Lower	Upper
106	100		
91	225.9	112.3	336.8

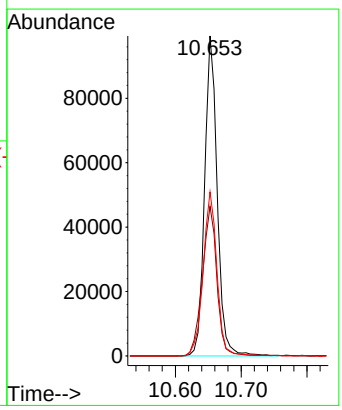


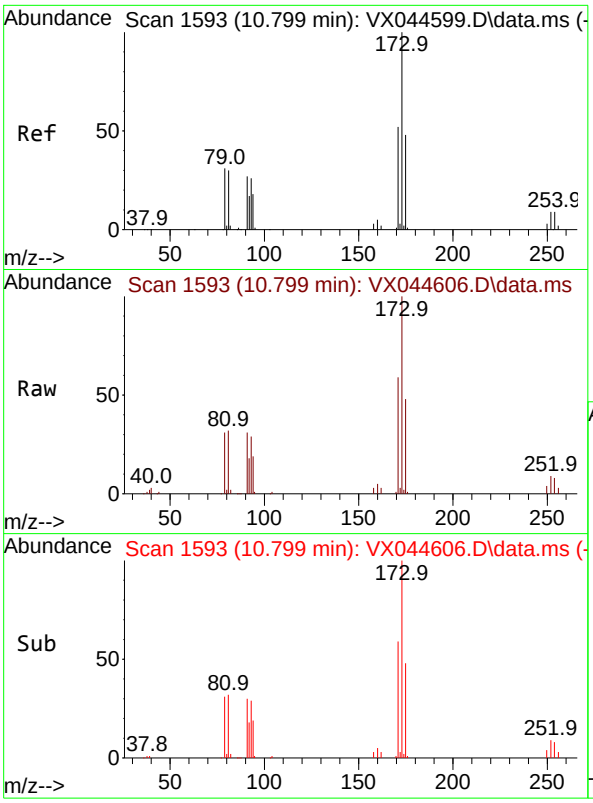


#70
Styrene
Concen: 18.940 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion:104 Resp: 132817

Ion	Ratio	Lower	Upper
104	100		
78	53.9	44.0	66.0
103	56.3	43.8	65.6



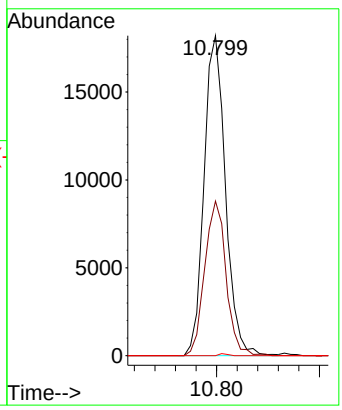


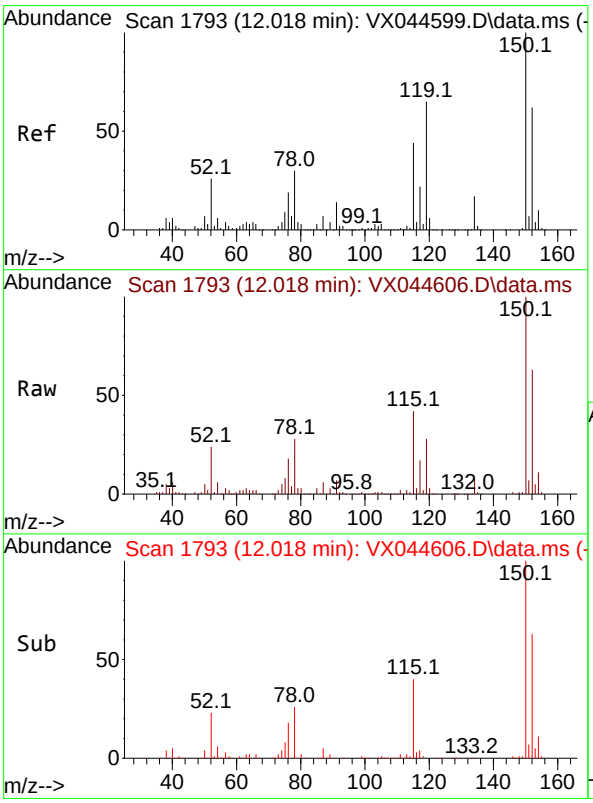
#71
Bromoform
Concen: 17.838 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Tgt Ion:173 Resp: 26348

Ion	Ratio	Lower	Upper
173	100		
175	48.2	24.6	73.8
254	0.3	0.0	0.0#

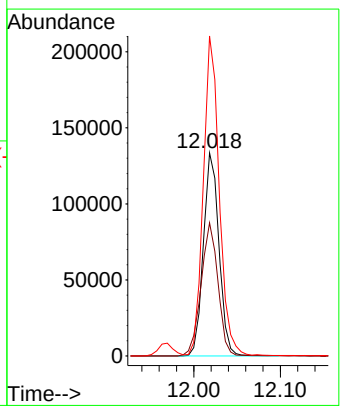


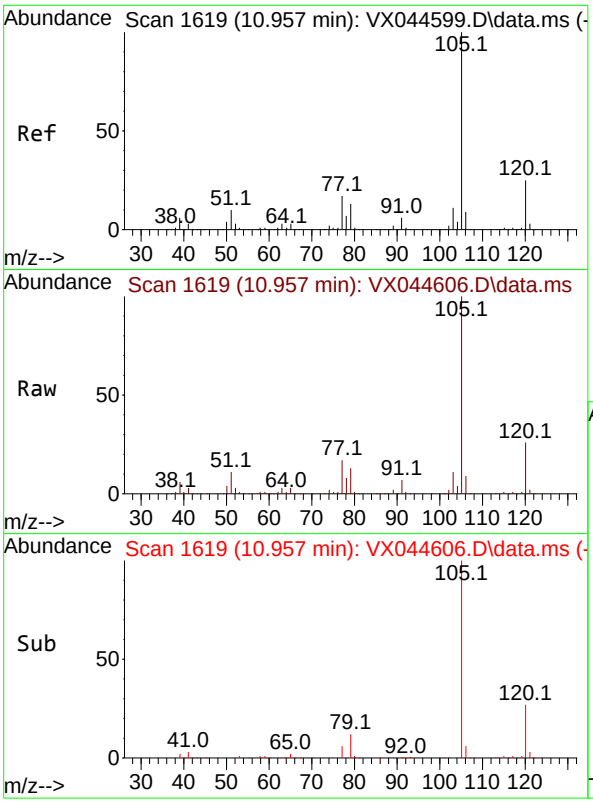


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion:152 Resp: 167120

Ion	Ratio	Lower	Upper
152	100		
115	70.9	44.4	133.1
150	160.5	0.0	355.0



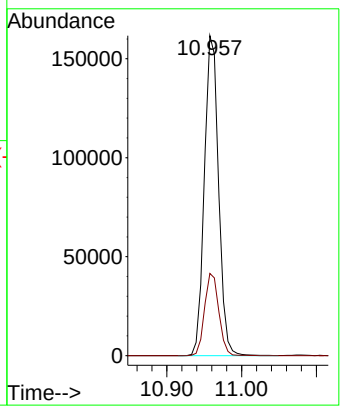


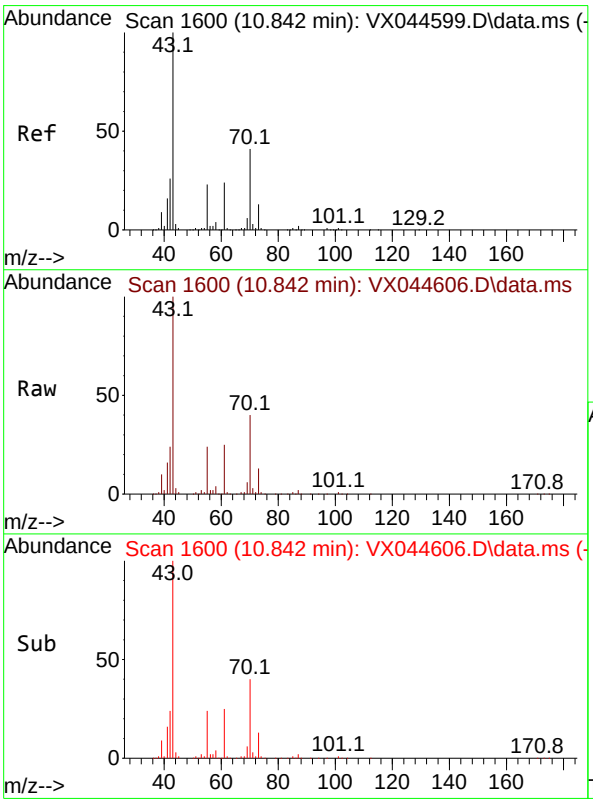
#73
Isopropylbenzene
Concen: 17.230 ug/l
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Tgt Ion:105 Resp: 213335

Ion	Ratio	Lower	Upper
105	100		
120	25.8	13.0	38.9

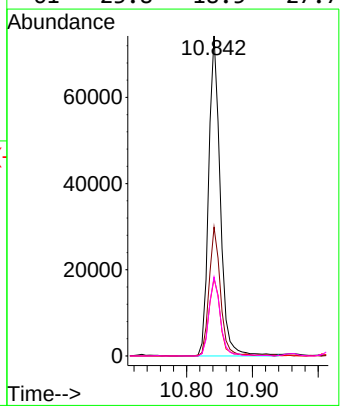


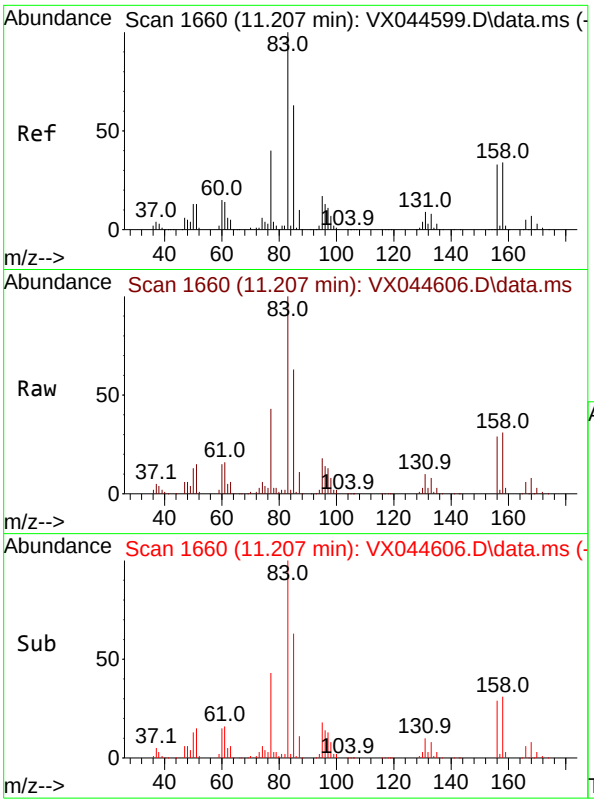


#74
N-amyl acetate
Concen: 18.157 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 43 Resp: 91220

Ion	Ratio	Lower	Upper
43	100		
70	39.1	32.9	49.3
55	24.1	19.0	28.6
61	23.8	18.5	27.7



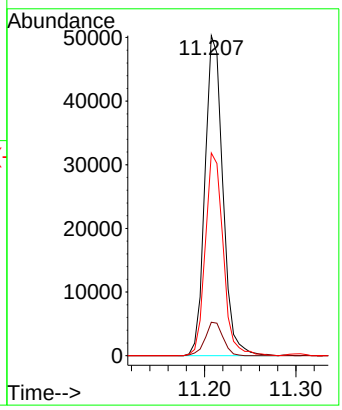


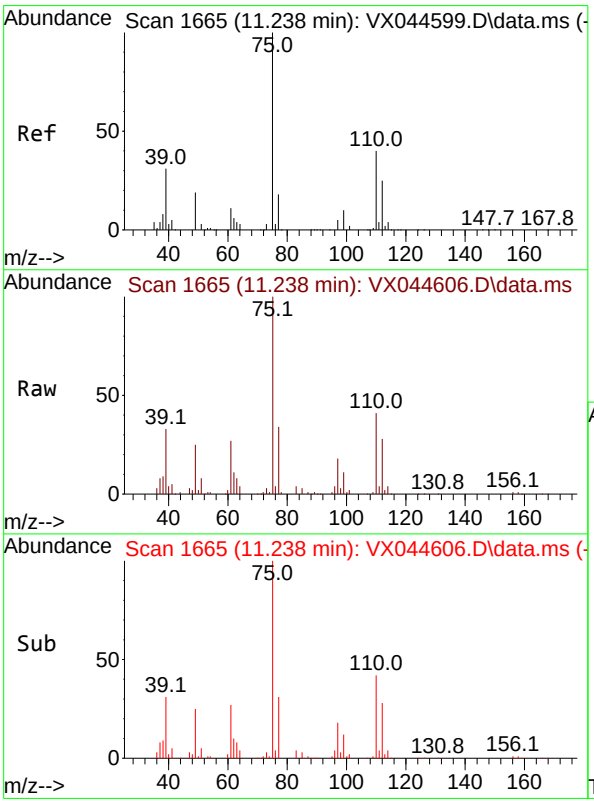
#75
1,1,2,2-Tetrachloroethane
Concen: 17.074 ug/l
RT: 11.207 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Tgt Ion: 83 Resp: 68139

Ion	Ratio	Lower	Upper
83	100		
131	10.4	5.0	15.0
85	63.2	31.9	95.5

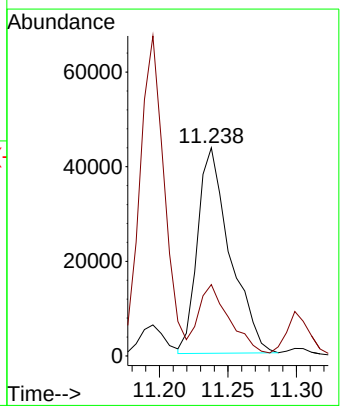


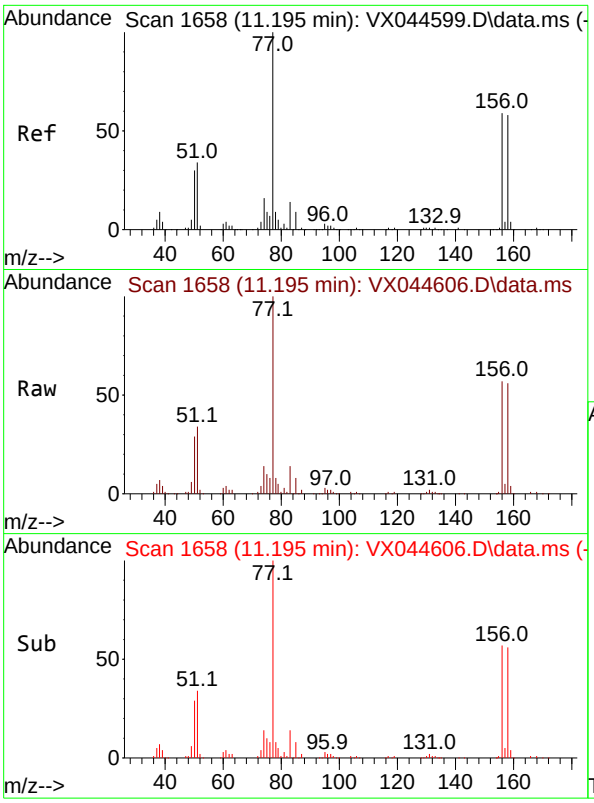


#76
1,2,3-Trichloropropane
Concen: 21.429 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 75 Resp: 71789

Ion	Ratio	Lower	Upper
75	100		
77	34.1	21.1	63.1



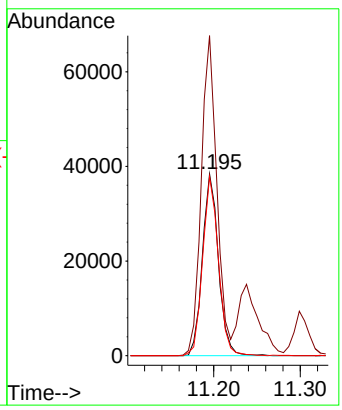


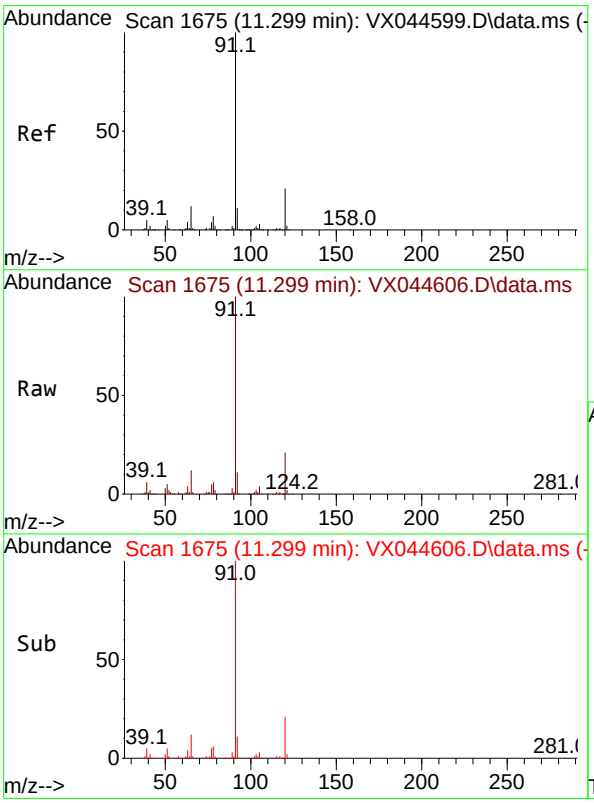
#77
Bromobenzene
Concen: 16.401 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Tgt Ion:156 Resp: 49329

Ion	Ratio	Lower	Upper
156	100		
77	171.7	85.7	257.1
158	97.0	49.9	149.6

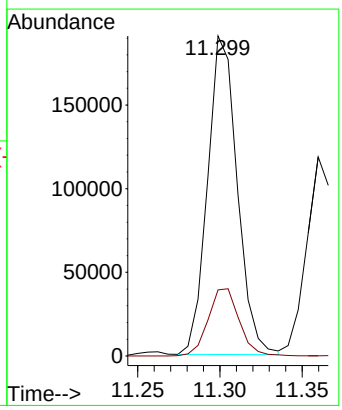


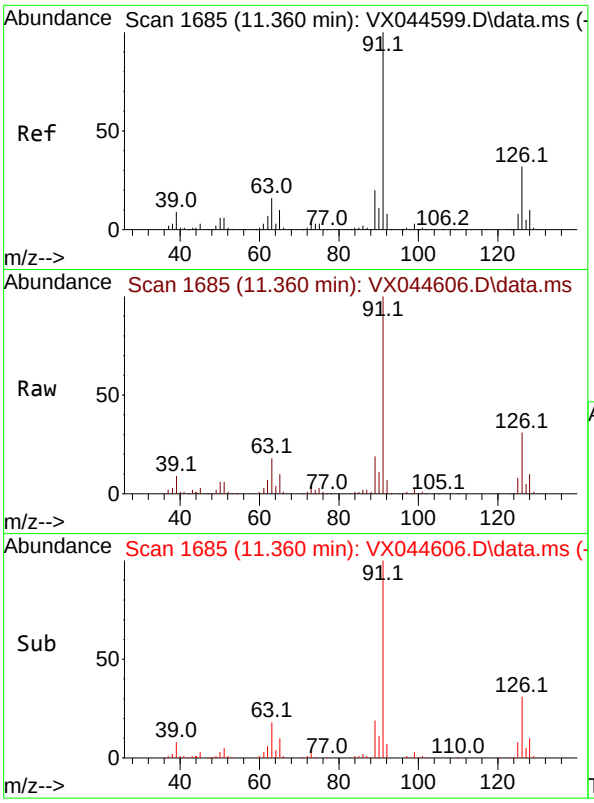


#78
n-propylbenzene
Concen: 17.152 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 91 Resp: 239201

Ion	Ratio	Lower	Upper
91	100		
120	22.1	11.2	33.5



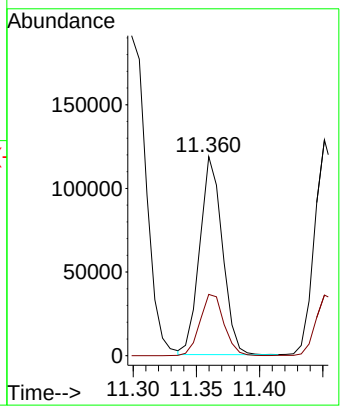


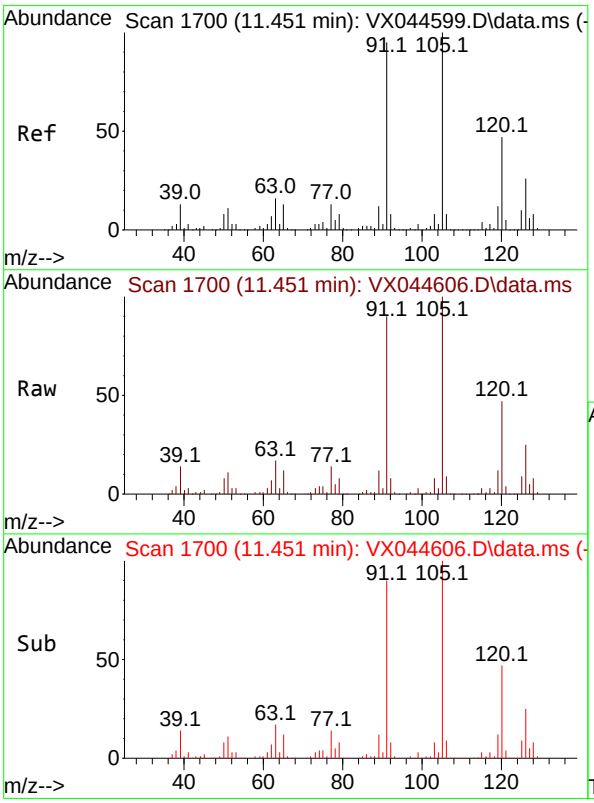
#79
2-Chlorotoluene
Concen: 16.335 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Tgt Ion: 91 Resp: 147621

Ion	Ratio	Lower	Upper
91	100		
126	32.9	16.4	49.2

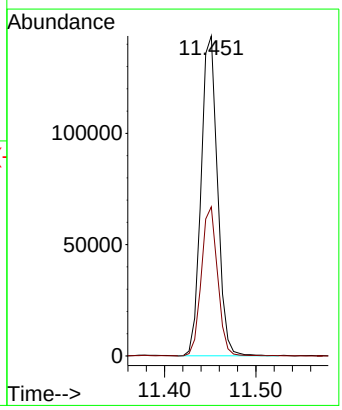


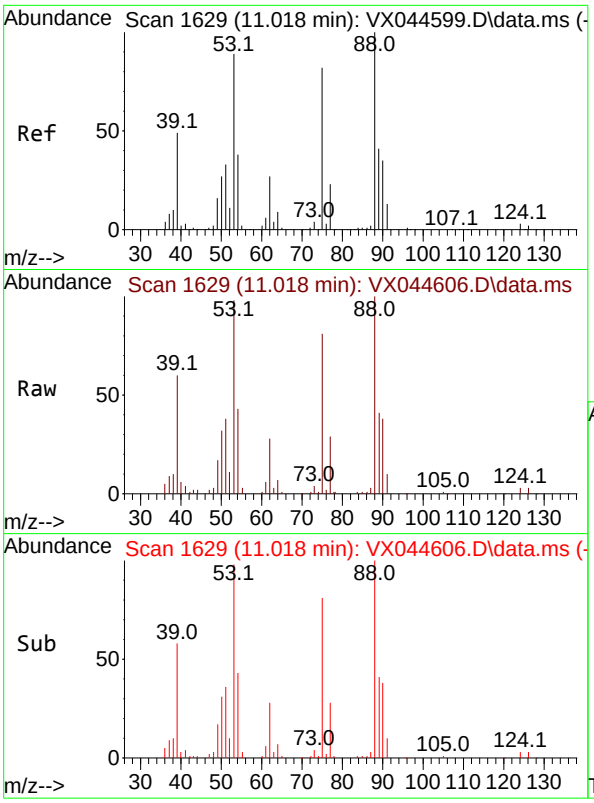


#80
1,3,5-Trimethylbenzene
Concen: 17.427 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion:105 Resp: 178900

Ion	Ratio	Lower	Upper
105	100		
120	46.3	23.5	70.5



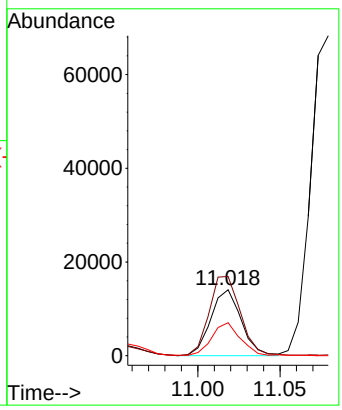


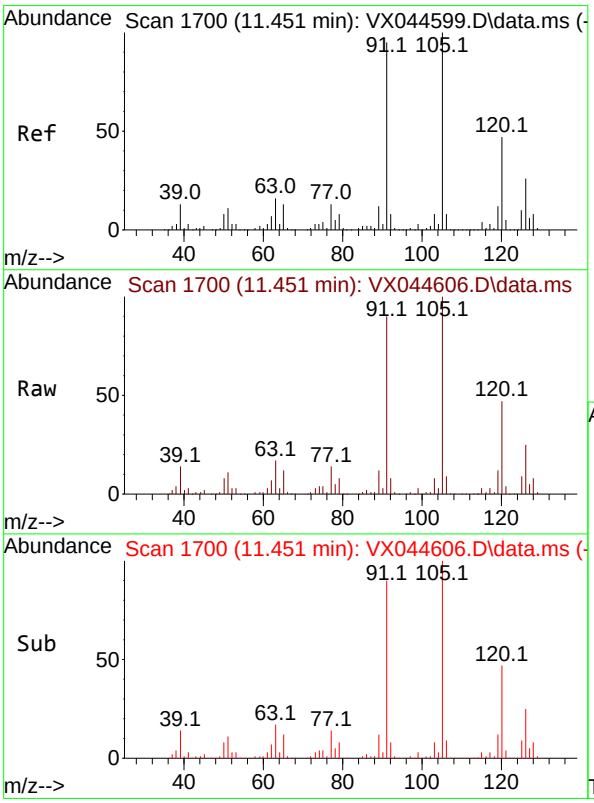
#81
trans-1,4-Dichloro-2-butene
Concen: 16.490 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Tgt Ion: 75 Resp: 18148

Ion	Ratio	Lower	Upper
75	100		
53	123.8	92.7	139.1
89	47.6	38.3	57.5

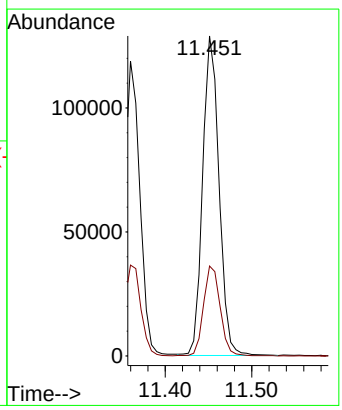


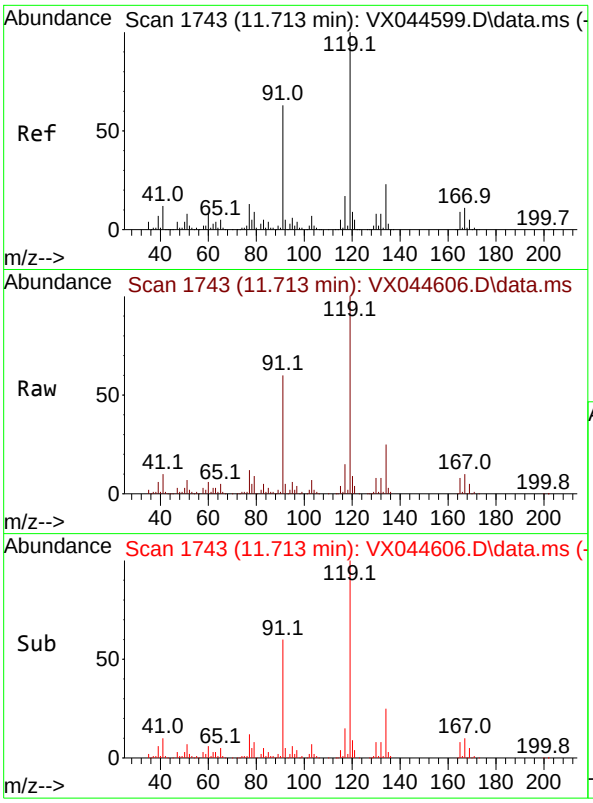


#82
4-Chlorotoluene
Concen: 16.659 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 91 Resp: 169363

Ion	Ratio	Lower	Upper
91	100		
126	28.8	14.0	42.0



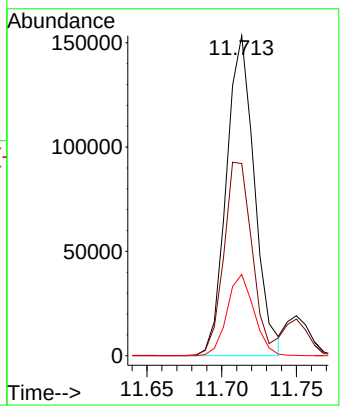


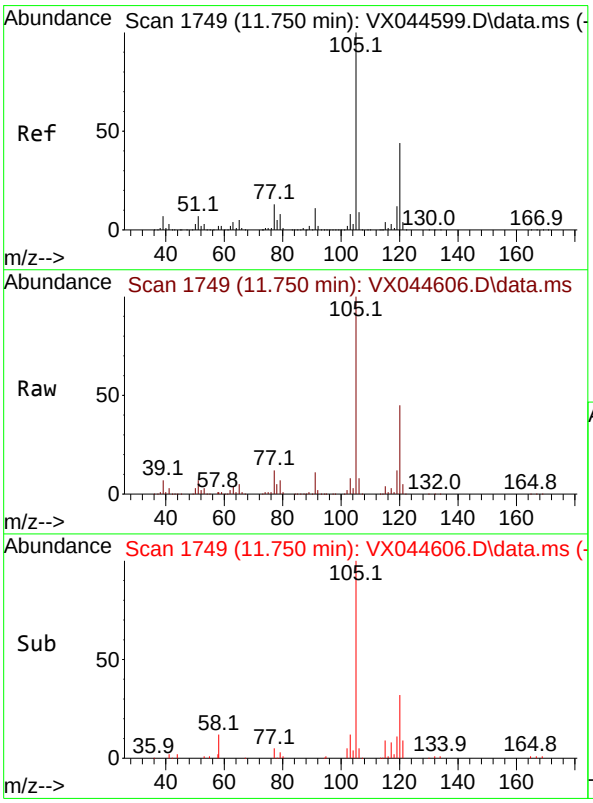
#83
tert-Butylbenzene
Concen: 19.579 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Tgt Ion:119 Resp: 200140

Ion	Ratio	Lower	Upper
119	100		
91	60.4	30.9	92.8
134	24.4	11.7	35.0

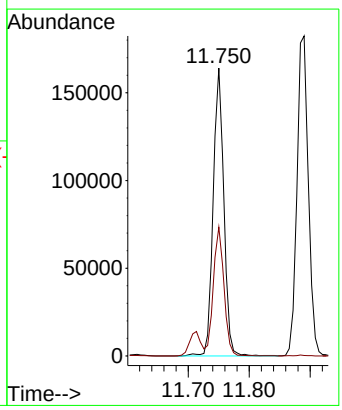


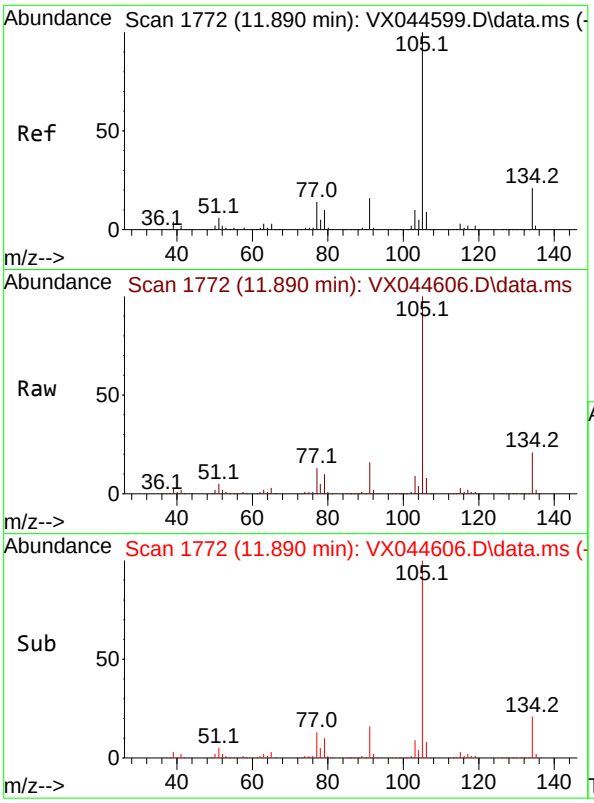


#84
1,2,4-Trimethylbenzene
Concen: 19.322 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion:105 Resp: 199250

Ion	Ratio	Lower	Upper
105	100		
120	44.8	21.9	65.7



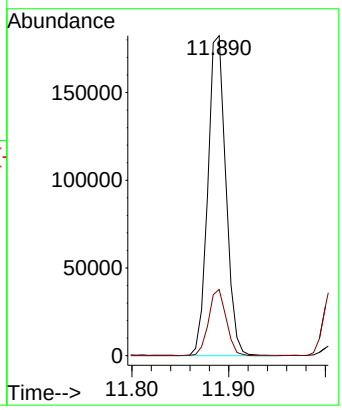


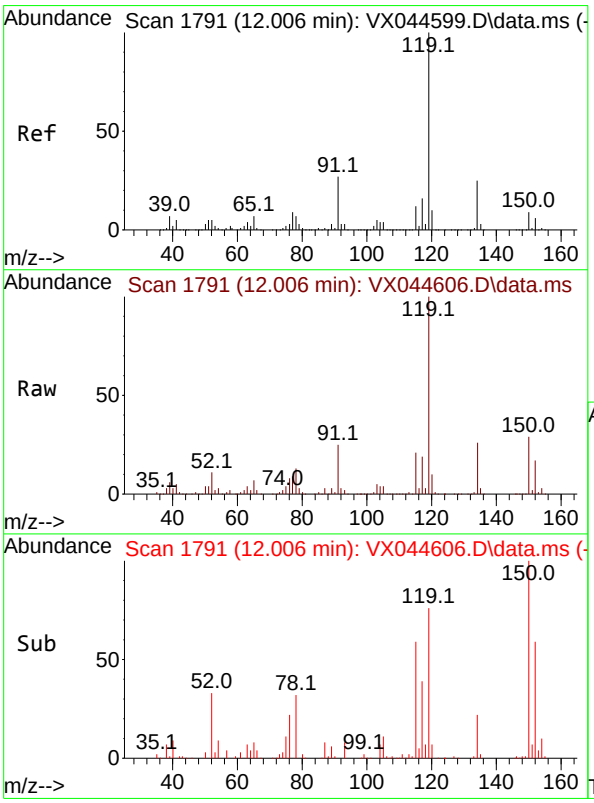
#85
sec-Butylbenzene
Concen: 18.999 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Tgt Ion:105 Resp: 236525

Ion	Ratio	Lower	Upper
105	100		
134	20.3	9.9	29.7

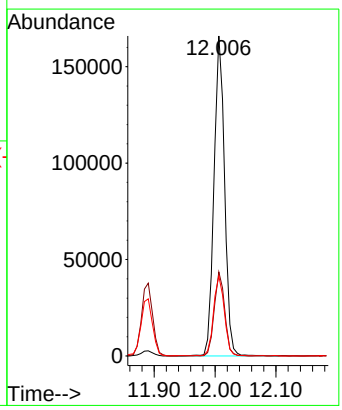


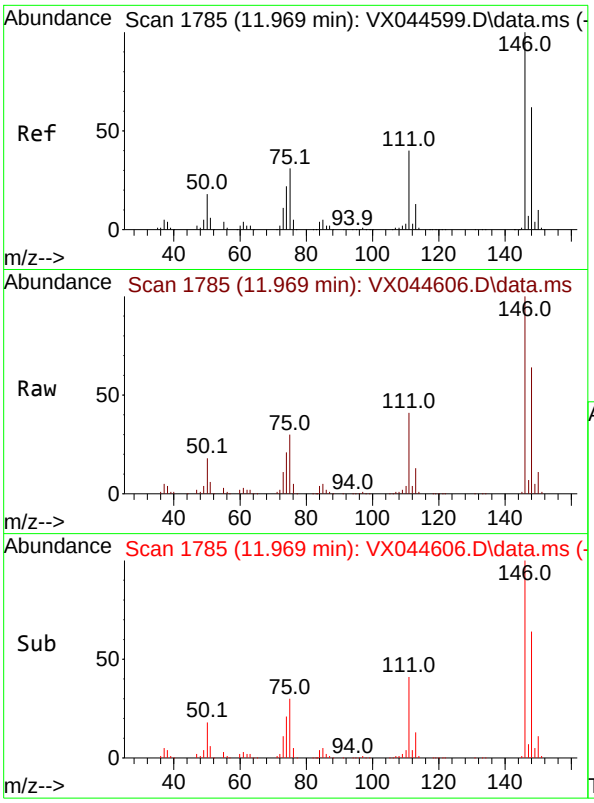


#86
p-Isopropyltoluene
Concen: 19.136 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion:119 Resp: 199894

Ion	Ratio	Lower	Upper
119	100		
134	25.9	12.6	37.8
91	25.5	13.1	39.1



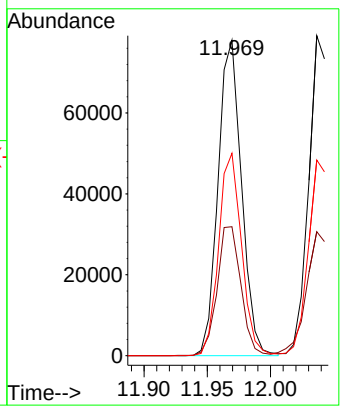


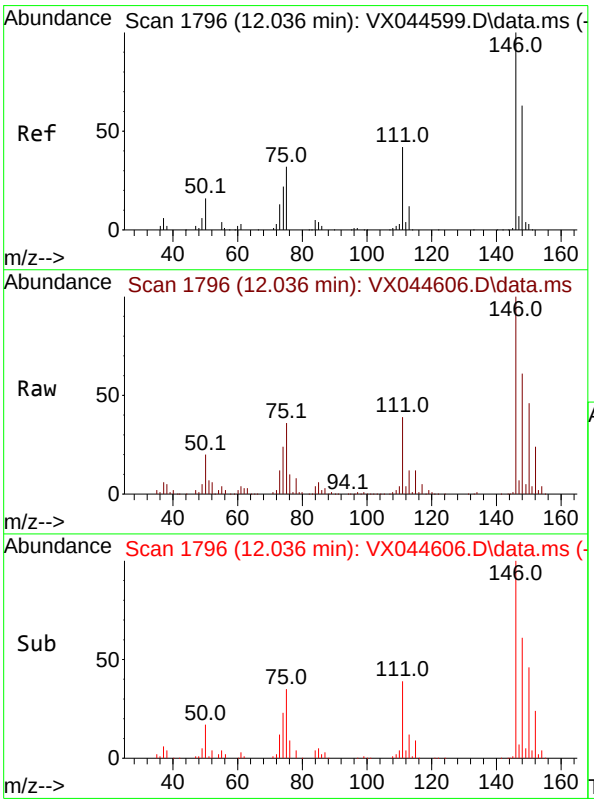
#87
1,3-Dichlorobenzene
Concen: 18.480 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Tgt Ion:146 Resp: 100552

Ion	Ratio	Lower	Upper
146	100		
111	41.6	21.0	63.0
148	62.8	31.6	95.0

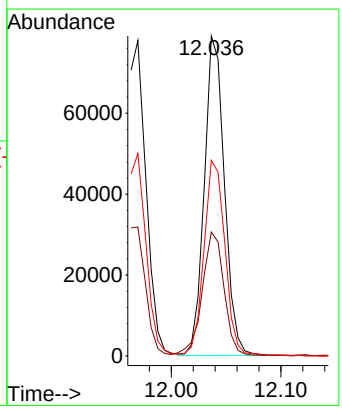


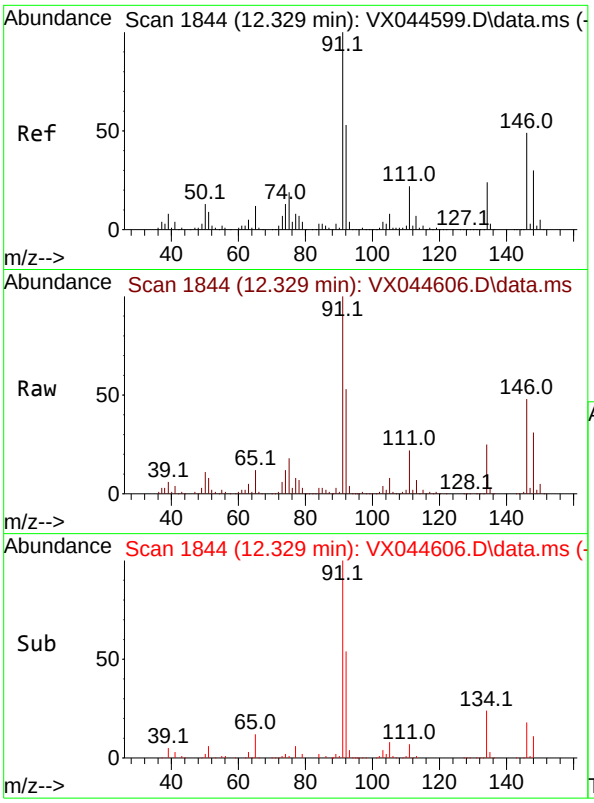


#88
1,4-Dichlorobenzene
Concen: 17.804 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion:146 Resp: 100929

Ion	Ratio	Lower	Upper
146	100		
111	42.0	20.7	62.1
148	64.2	31.8	95.4



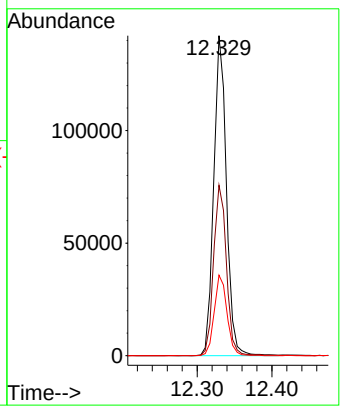


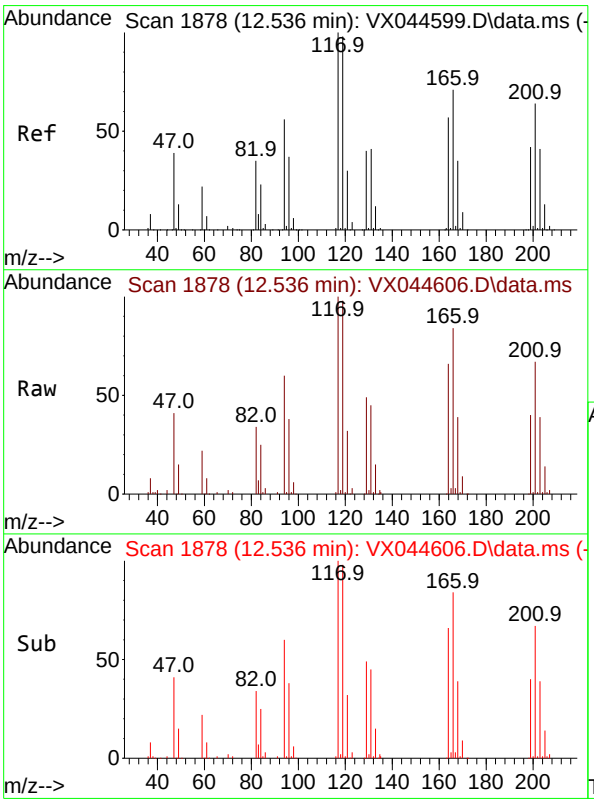
#89
n-Butylbenzene
Concen: 18.915 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Tgt Ion: 91 Resp: 166838

Ion	Ratio	Lower	Upper
91	100		
92	54.5	26.5	79.4
134	25.5	12.4	37.2

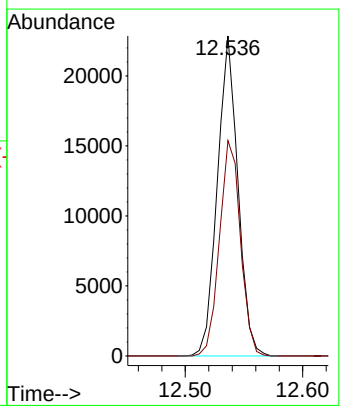


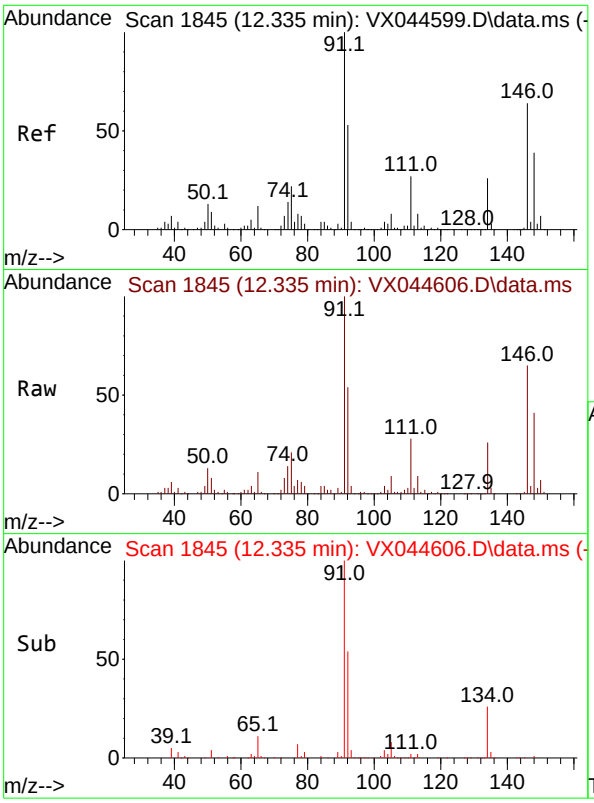


#90
Hexachloroethane
Concen: 16.588 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion:117 Resp: 27835

Ion	Ratio	Lower	Upper
117	100		
201	68.6	33.6	100.6



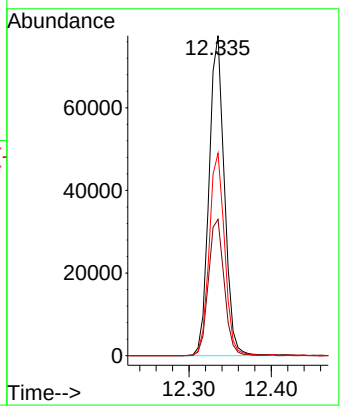


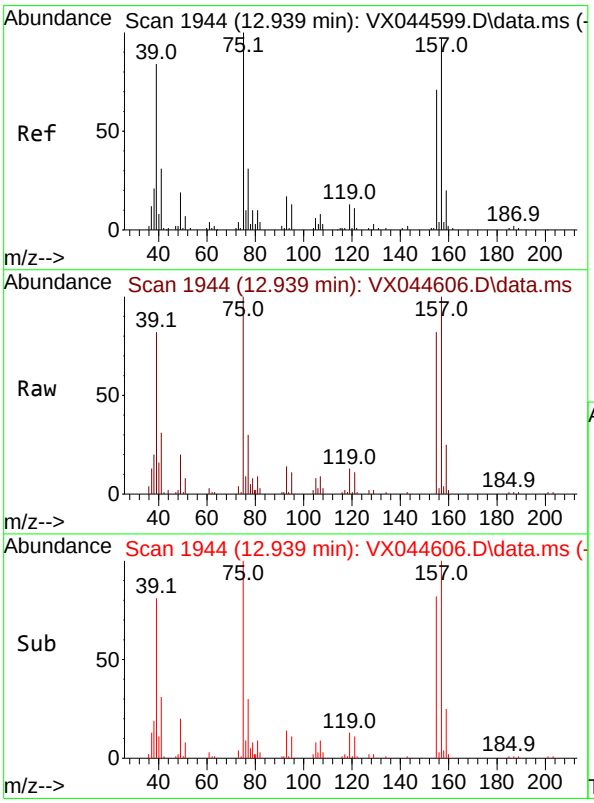
#91
1,2-Dichlorobenzene
Concen: 18.276 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Tgt Ion:146 Resp: 100486

Ion	Ratio	Lower	Upper
146	100		
111	43.9	21.8	65.4
148	63.6	31.1	93.3

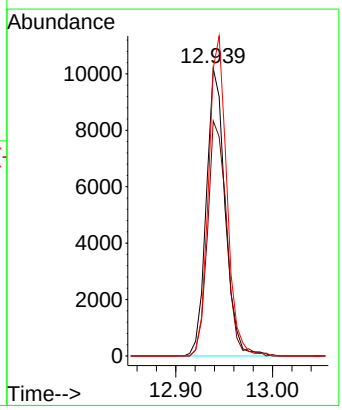


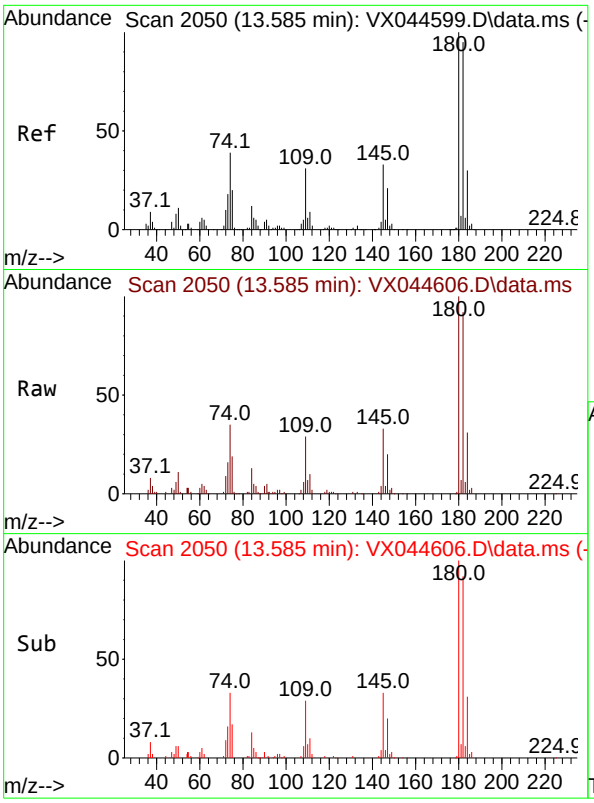


#92
1,2-Dibromo-3-Chloropropane
Concen: 18.244 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion: 75 Resp: 13803

Ion	Ratio	Lower	Upper
75	100		
155	82.8	37.4	112.1
157	107.6	48.0	144.2



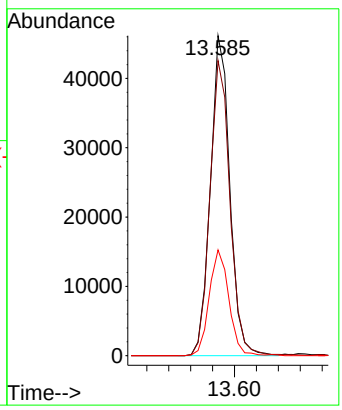


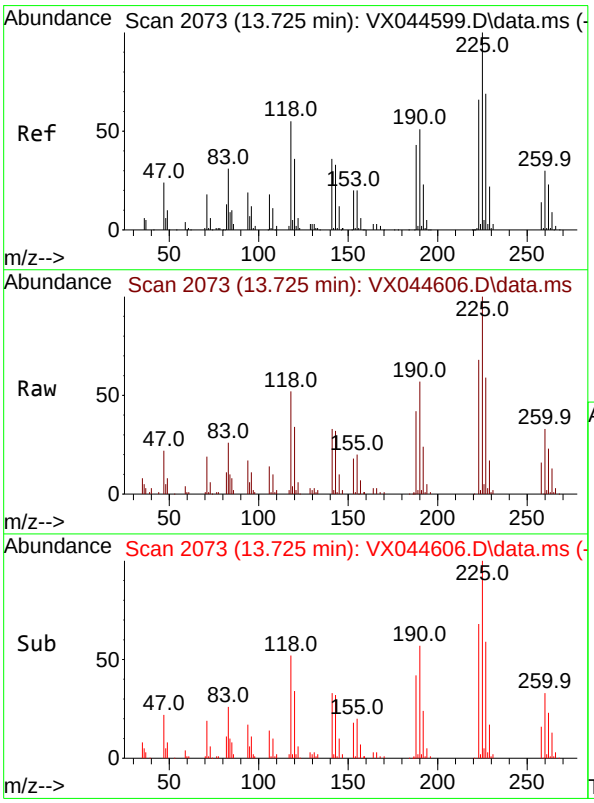
#93
1,2,4-Trichlorobenzene
Concen: 17.601 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Tgt Ion:180 Resp: 56878

Ion	Ratio	Lower	Upper
180	100		
182	95.2	47.9	143.6
145	33.5	16.3	48.9

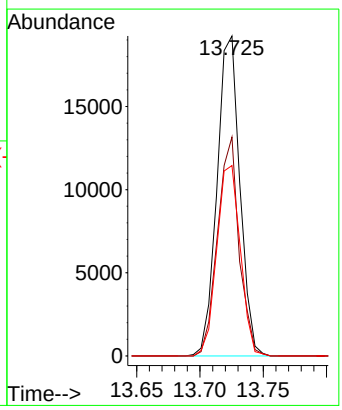


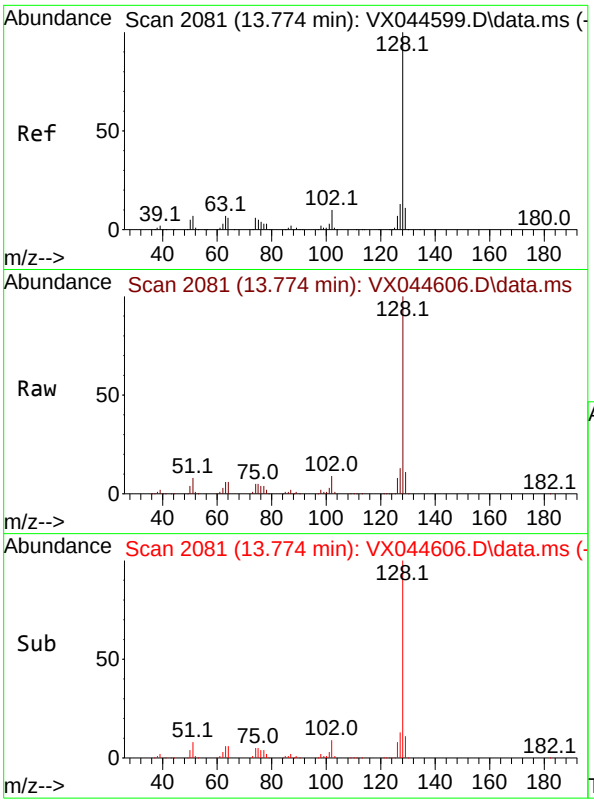


#94
Hexachlorobutadiene
Concen: 17.902 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion:225 Resp: 24088

Ion	Ratio	Lower	Upper
225	100		
223	64.5	31.6	94.8
227	61.3	31.9	95.9



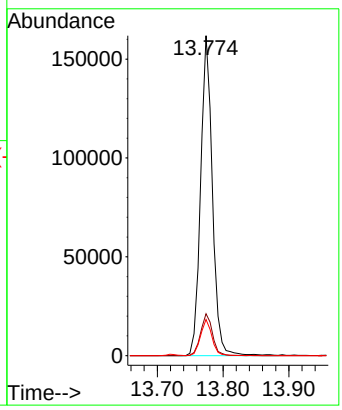


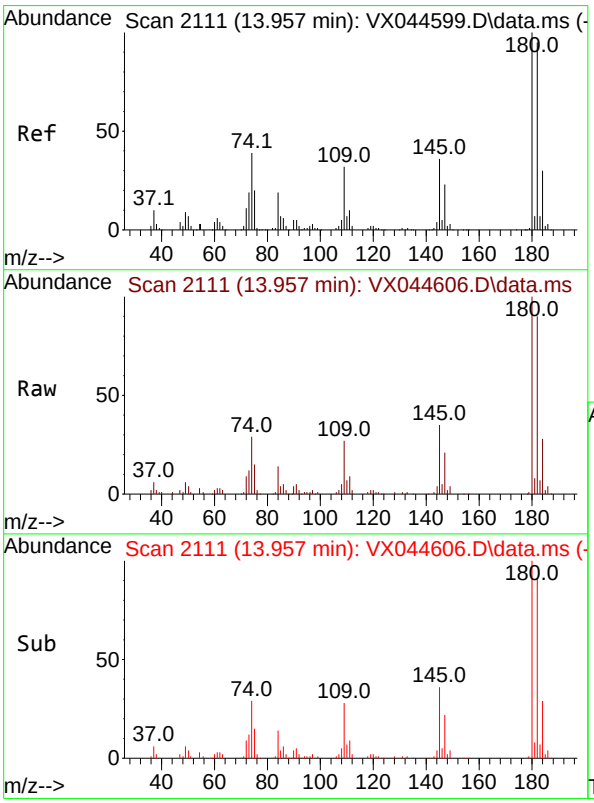
#95
Naphthalene
Concen: 19.340 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBS02

Tgt Ion:128 Resp: 201646

Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.5	15.7
129	11.0	8.6	13.0

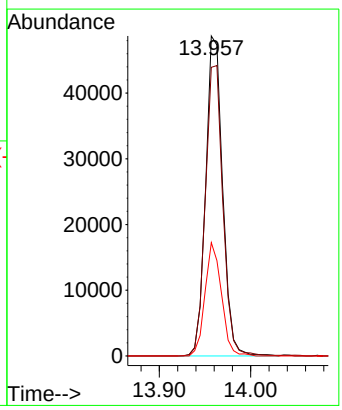




#96
1,2,3-Trichlorobenzene
Concen: 18.973 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX044606.D
Acq: 07 Jan 2025 16:57

Tgt Ion:180 Resp: 62675

Ion	Ratio	Lower	Upper
180	100		
182	93.9	47.6	142.9
145	34.2	17.6	52.9



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044607.D
Acq On : 07 Jan 2025 17:19
Operator : JC/MD
Sample : VX0107WBSD02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Quant Time: Jan 09 03:32:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 03:57:12 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	171730	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	300759	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	266797	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	120544	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	137729	49.741	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	99.480%		
35) Dibromofluoromethane	5.379	113	95542	46.327	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	92.660%		
50) Toluene-d8	8.647	98	334889	47.539	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	95.080%		
62) 4-Bromofluorobenzene	11.079	95	120282	48.375	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	96.740%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	48912	19.685	ug/l	98
3) Chloromethane	1.294	50	49735	20.086	ug/l	98
4) Vinyl Chloride	1.374	62	45148	19.436	ug/l	98
5) Bromomethane	1.599	94	24303	20.198	ug/l	98
6) Chloroethane	1.666	64	25953	19.530	ug/l	96
7) Trichlorofluoromethane	1.874	101	70365	20.344	ug/l	96
8) Diethyl Ether	2.130	74	28379	23.221	ug/l	89
9) 1,1,2-Trichlorotrifluo...	2.319	101	38354	19.341	ug/l	99
10) Methyl Iodide	2.447	142	52555	19.005	ug/l	98
11) Tert butyl alcohol	2.989	59	40868	119.862	ug/l	100
12) 1,1-Dichloroethene	2.313	96	36059	18.769	ug/l	95
13) Acrolein	2.233	56	46439	103.013	ug/l	99
14) Allyl chloride	2.660	41	64315	20.129	ug/l	98
15) Acrylonitrile	3.062	53	110987	113.025	ug/l	99
16) Acetone	2.380	43	101158	115.912	ug/l	99
17) Carbon Disulfide	2.508	76	74882	18.850	ug/l	98
18) Methyl Acetate	2.703	43	58370	22.660	ug/l	97
19) Methyl tert-butyl Ether	3.111	73	140165	21.289	ug/l	99
20) Methylene Chloride	2.788	84	43896	19.716	ug/l	95
21) trans-1,2-Dichloroethene	3.087	96	38148	19.347	ug/l	96
22) Diisopropyl ether	3.757	45	138717	21.120	ug/l	94
23) Vinyl Acetate	3.715	43	591636	111.391	ug/l	100
24) 1,1-Dichloroethane	3.605	63	77964	20.371	ug/l	99
25) 2-Butanone	4.556	43	155002	123.050	ug/l	96
26) 2,2-Dichloropropane	4.465	77	68439	20.683	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	47130	19.603	ug/l	96
28) Bromochloromethane	4.891	49	30719	17.243	ug/l	94
29) Tetrahydrofuran	5.007	42	100588	116.608	ug/l	98
30) Chloroform	5.086	83	84027	20.366	ug/l	97
31) Cyclohexane	5.458	56	62019	19.737	ug/l	98
32) 1,1,1-Trichloroethane	5.373	97	73236	21.092	ug/l	97
36) 1,1-Dichloropropene	5.690	75	51434	19.287	ug/l	99
37) Ethyl Acetate	4.715	43	62610	22.951	ug/l	99
38) Carbon Tetrachloride	5.666	117	56180	18.987	ug/l	100
39) Methylcyclohexane	7.373	83	64900	19.073	ug/l	99
40) Benzene	6.031	78	162053	19.300	ug/l	96

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044607.D
Acq On : 07 Jan 2025 17:19
Operator : JC/MD
Sample : VX0107WBSD02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Quant Time: Jan 09 03:32:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 03:57:12 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.922	41	32484	22.184	ug/l		98
42) 1,2-Dichloroethane	6.080	62	70018	21.323	ug/l		99
43) Isopropyl Acetate	6.336	43	101940	22.650	ug/l		100
44) Trichloroethene	7.123	130	39732	18.511	ug/l		97
45) 1,2-Dichloropropane	7.427	63	41958	20.496	ug/l		96
46) Dibromomethane	7.580	93	32347	20.317	ug/l		97
47) Bromodichloromethane	7.818	83	59672	20.596	ug/l		99
48) Methyl methacrylate	7.690	41	50339	23.451	ug/l		99
49) 1,4-Dioxane	7.665	88	13525	428.762	ug/l		90
51) 4-Methyl-2-Pentanone	8.574	43	319022	121.261	ug/l		98
52) Toluene	8.714	92	102803	20.292	ug/l		96
53) t-1,3-Dichloropropene	8.976	75	57617	20.805	ug/l		95
54) cis-1,3-Dichloropropene	8.366	75	63548	20.417	ug/l		99
55) 1,1,2-Trichloroethane	9.147	97	41049	20.668	ug/l		97
56) Ethyl methacrylate	9.116	69	64529	22.340	ug/l		98
57) 1,3-Dichloropropane	9.305	76	72788	21.824	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	140437	98.074	ug/l		100
59) 2-Hexanone	9.427	43	231665	124.510	ug/l		100
60) Dibromochloromethane	9.519	129	39629	20.011	ug/l		100
61) 1,2-Dibromoethane	9.610	107	42130	21.003	ug/l		100
64) Tetrachloroethene	9.269	164	35162	18.640	ug/l		97
65) Chlorobenzene	10.079	112	112810	19.923	ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.159	131	37980	20.195	ug/l		99
67) Ethyl Benzene	10.189	91	196678	20.227	ug/l		98
68) m/p-Xylenes	10.299	106	145628	40.757	ug/l		100
69) o-Xylene	10.640	106	72061	19.981	ug/l		98
70) Styrene	10.652	104	118313	20.510	ug/l		100
71) Bromoform	10.799	173	24761	20.205	ug/l	#	97
73) Isopropylbenzene	10.963	105	186576	20.891	ug/l		98
74) N-amyl acetate	10.841	43	81987	22.625	ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.207	83	61611	21.403	ug/l		100
76) 1,2,3-Trichloropropane	11.238	75	66400	27.479	ug/l		87
77) Bromobenzene	11.195	156	45188	20.829	ug/l		95
78) n-propylbenzene	11.299	91	208661	20.743	ug/l		100
79) 2-Chlorotoluene	11.360	91	132275	20.292	ug/l		100
80) 1,3,5-Trimethylbenzene	11.451	105	155524	21.003	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	15709	19.789	ug/l		92
82) 4-Chlorotoluene	11.451	91	150886	20.576	ug/l		100
83) tert-Butylbenzene	11.713	119	152010	20.617	ug/l		97
84) 1,2,4-Trimethylbenzene	11.750	105	156006	20.973	ug/l		99
85) sec-Butylbenzene	11.890	105	185130	20.617	ug/l		99
86) p-Isopropyltoluene	12.006	119	154223	20.469	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	80463	20.502	ug/l		99
88) 1,4-Dichlorobenzene	12.036	146	78747	19.258	ug/l		97
89) n-Butylbenzene	12.329	91	127763	20.082	ug/l		99
90) Hexachloroethane	12.536	117	22393	18.501	ug/l		100
91) 1,2-Dichlorobenzene	12.335	146	79533	20.054	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	12508	22.920	ug/l		93
93) 1,2,4-Trichlorobenzene	13.585	180	49080	21.056	ug/l		98
94) Hexachlorobutadiene	13.725	225	21566	22.220	ug/l		94
95) Naphthalene	13.774	128	189125	25.147	ug/l		99
96) 1,2,3-Trichlorobenzene	13.957	180	50797	21.319	ug/l		96

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044607.D
Acq On : 07 Jan 2025 17:19
Operator : JC/MD
Sample : VX0107WBSD02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Quant Time: Jan 09 03:32:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 03:57:12 2025
Response via : Initial Calibration

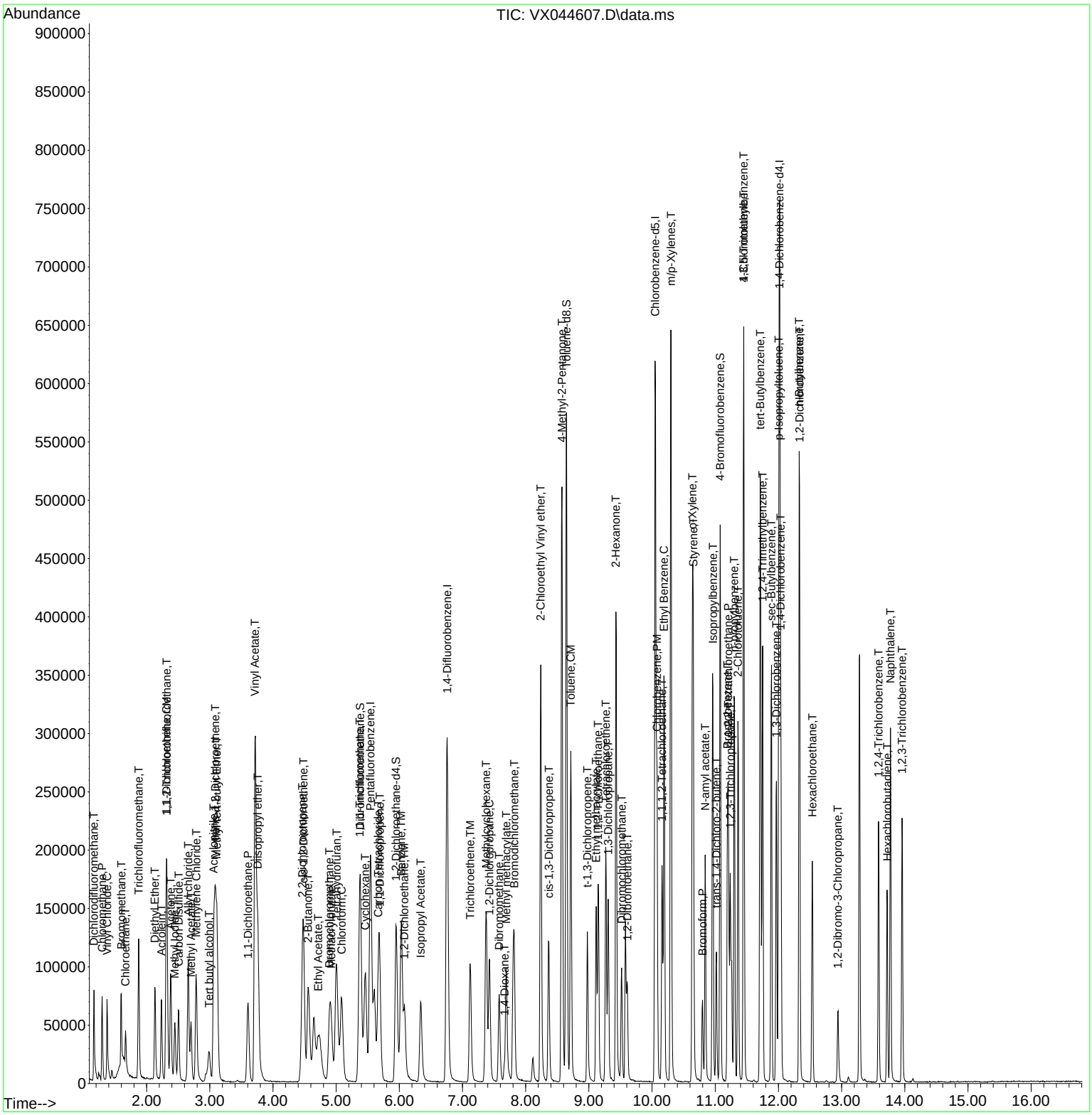
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

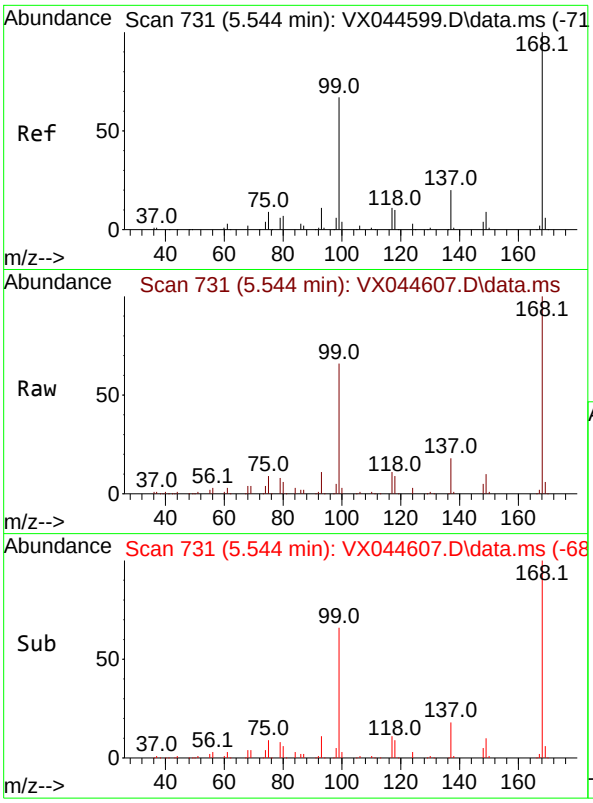
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044607.D
Acq On : 07 Jan 2025 17:19
Operator : JC/MD
Sample : VX0107WBSD02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Quant Time: Jan 09 03:32:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 03:57:12 2025
Response via : Initial Calibration



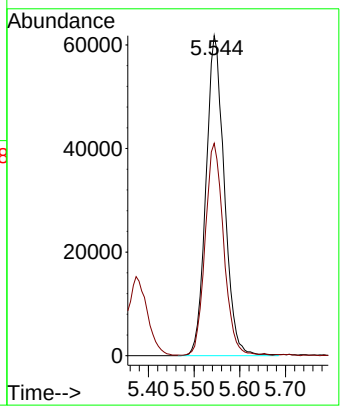


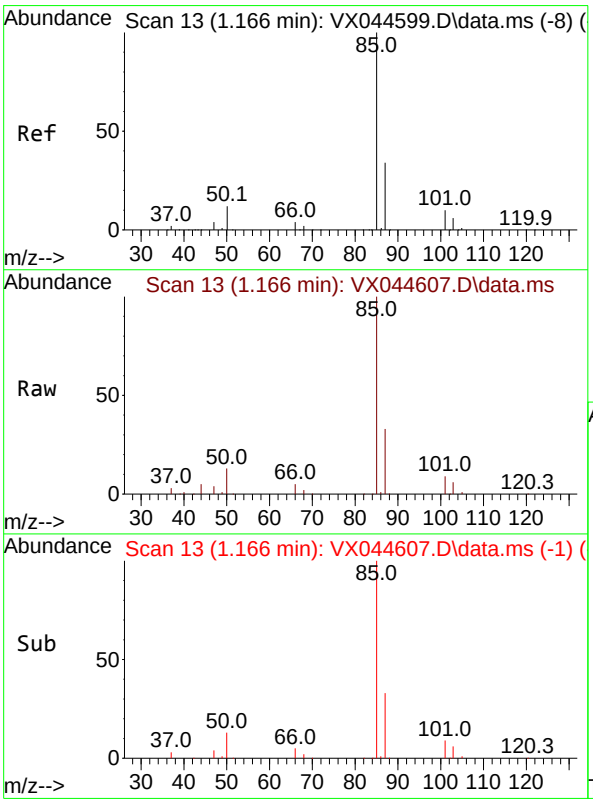
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Tgt Ion:168 Resp: 171730

Ion	Ratio	Lower	Upper
168	100		
99	66.2	53.5	80.3

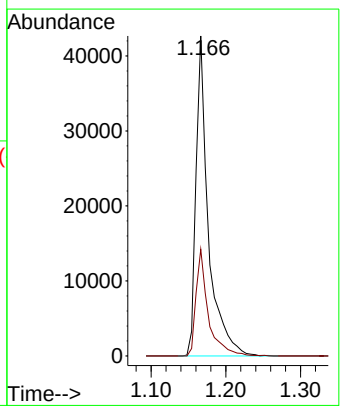


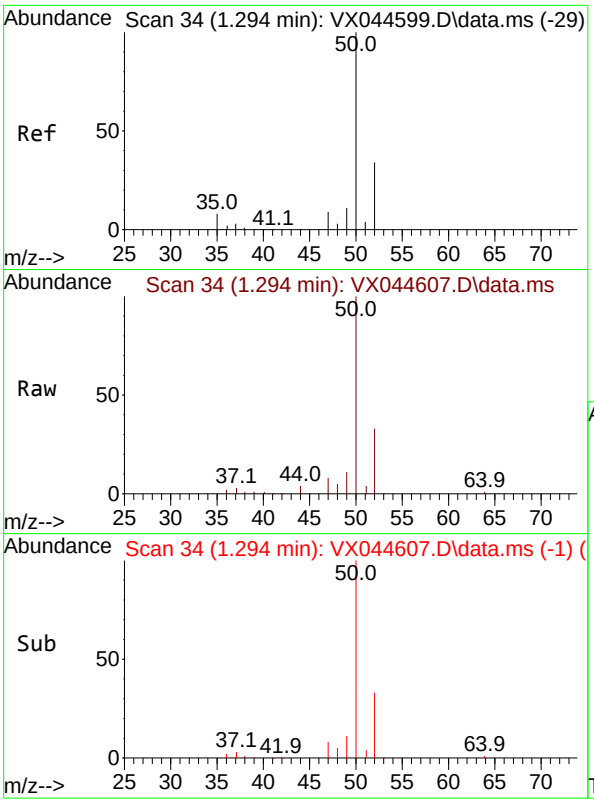


#2
Dichlorodifluoromethane
Concen: 19.685 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 85 Resp: 48912

Ion	Ratio	Lower	Upper
85	100		
87	33.3	17.2	51.5



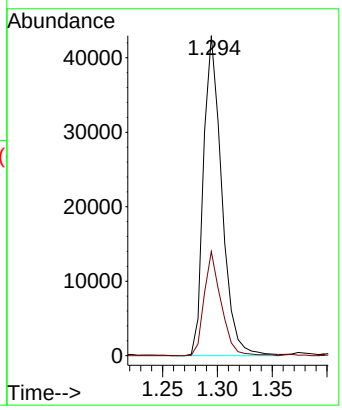


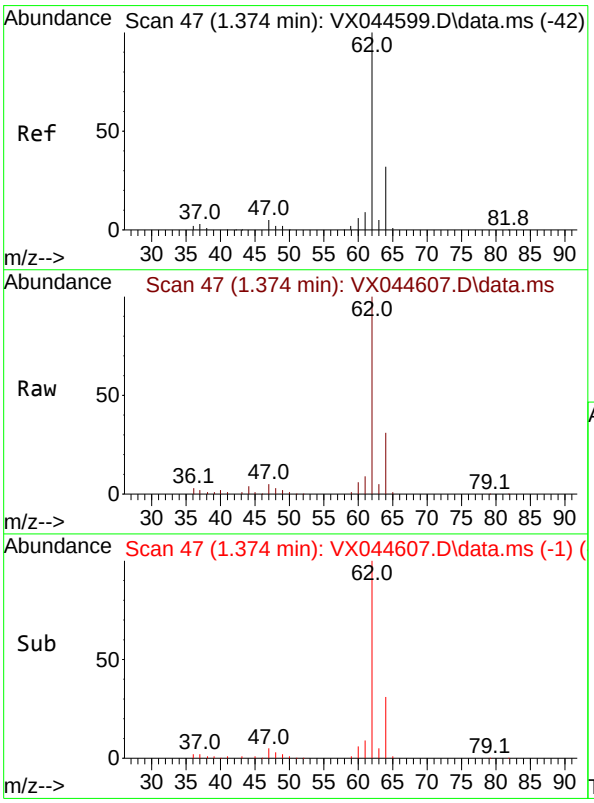
#3
Chloromethane
Concen: 20.086 ug/l
RT: 1.294 min Scan# 34
Delta R.T. 0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Tgt Ion: 50 Resp: 49735

Ion	Ratio	Lower	Upper
50	100		
52	32.6	27.0	40.4

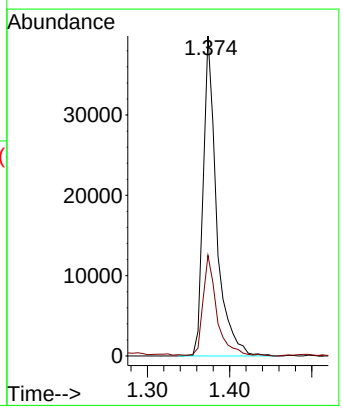


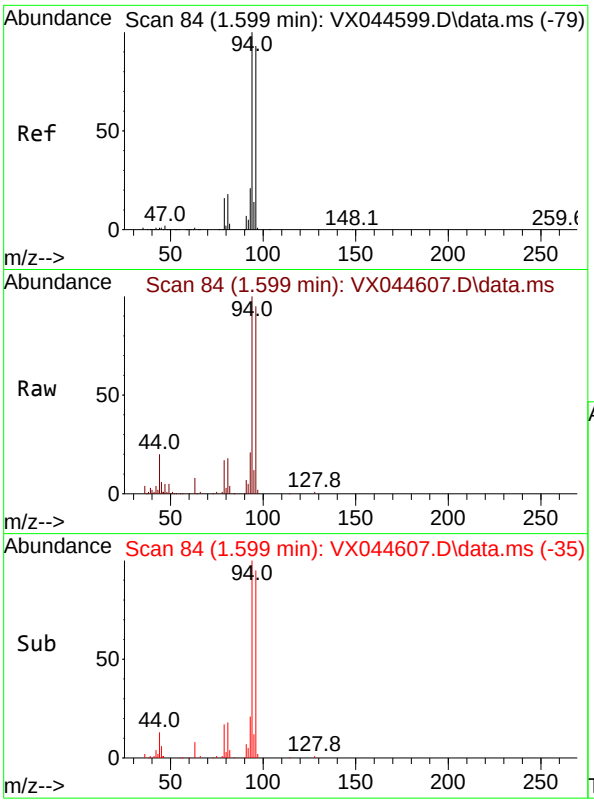


#4
Vinyl Chloride
Concen: 19.436 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 62 Resp: 45148

Ion	Ratio	Lower	Upper
62	100		
64	31.4	26.0	39.0



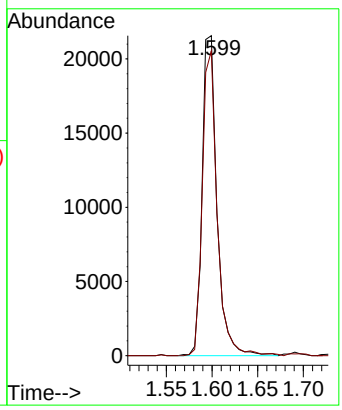


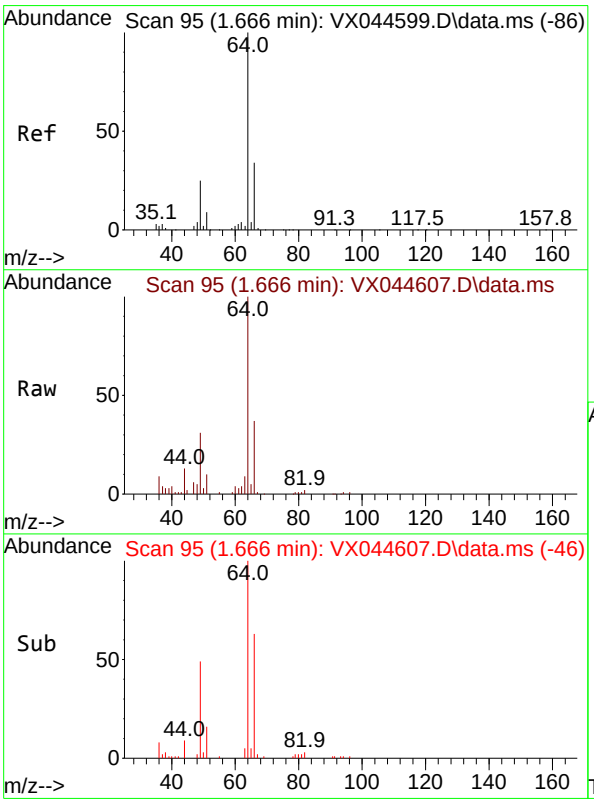
#5
Bromomethane
Concen: 20.198 ug/l
RT: 1.599 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Tgt Ion: 94 Resp: 24303

Ion	Ratio	Lower	Upper
94	100		
96	95.3	74.6	112.0

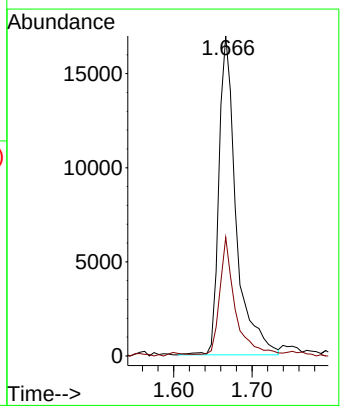


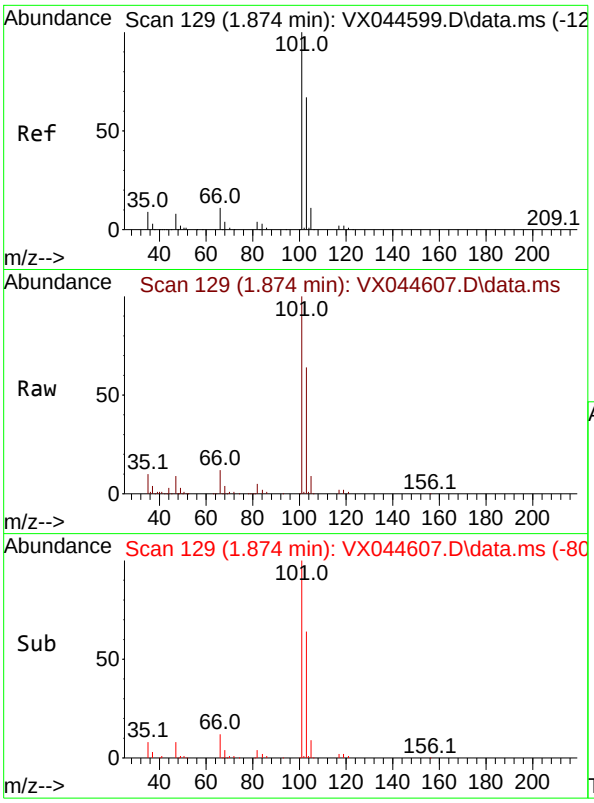


#6
Chloroethane
Concen: 19.530 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 64 Resp: 25953

Ion	Ratio	Lower	Upper
64	100		
66	36.4	27.3	40.9



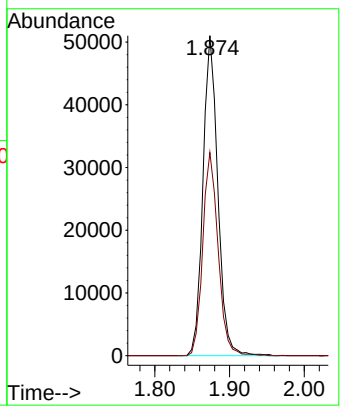


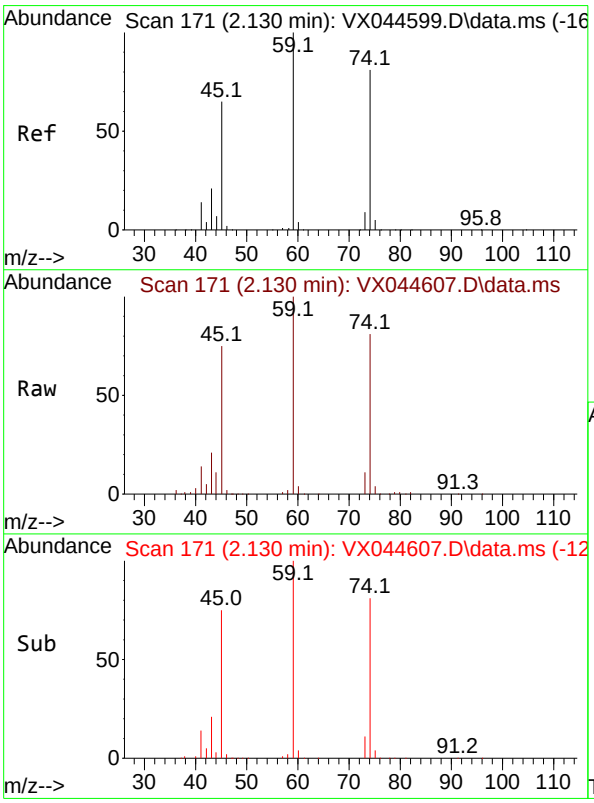
#7
Trichlorofluoromethane
Concen: 20.344 ug/l
RT: 1.874 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Tgt Ion:101 Resp: 70365

Ion	Ratio	Lower	Upper
101	100		
103	63.5	53.3	79.9

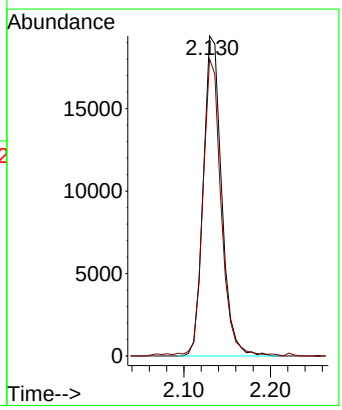


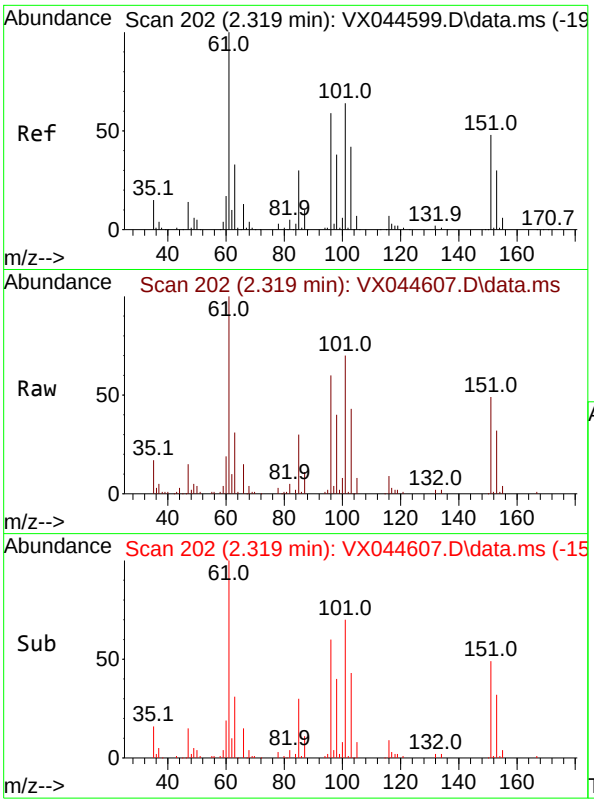


#8
Diethyl Ether
Concen: 23.221 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 74 Resp: 28379

Ion	Ratio	Lower	Upper
74	100		
45	93.7	41.7	125.1



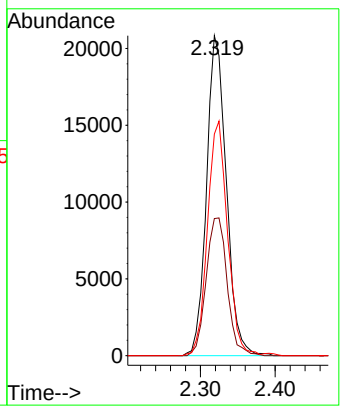


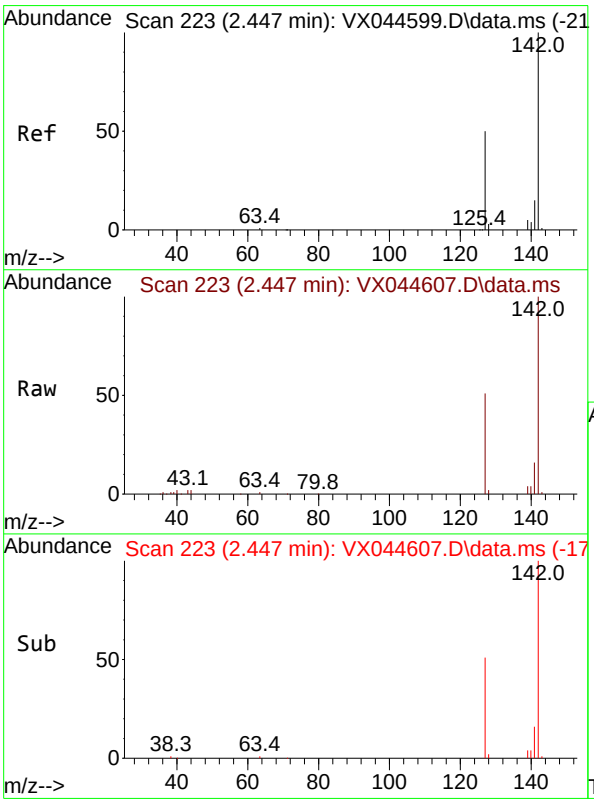
#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.341 ug/l
RT: 2.319 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Tgt Ion:101 Resp: 38354

Ion	Ratio	Lower	Upper
101	100		
85	45.7	36.5	54.7
151	74.2	58.6	87.8

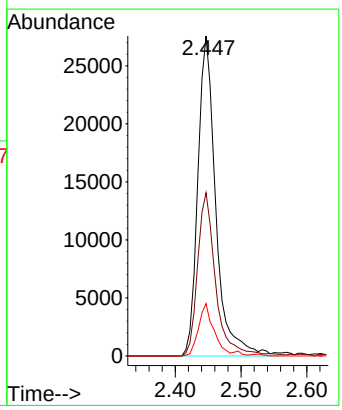


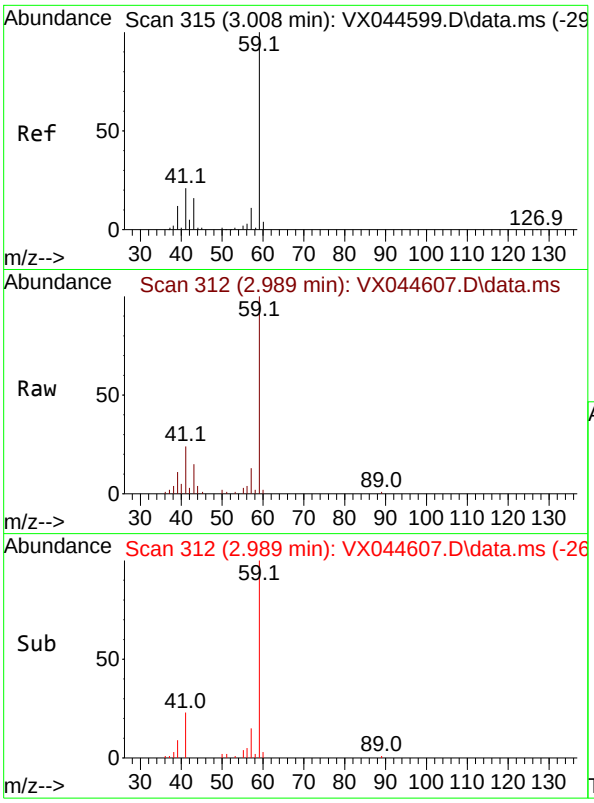


#10
Methyl Iodide
Concen: 19.005 ug/l
RT: 2.447 min Scan# 223
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion:142 Resp: 52555

Ion	Ratio	Lower	Upper
142	100		
127	51.1	41.9	62.9
141	14.5	11.8	17.6



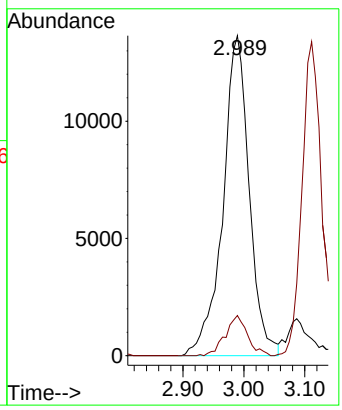


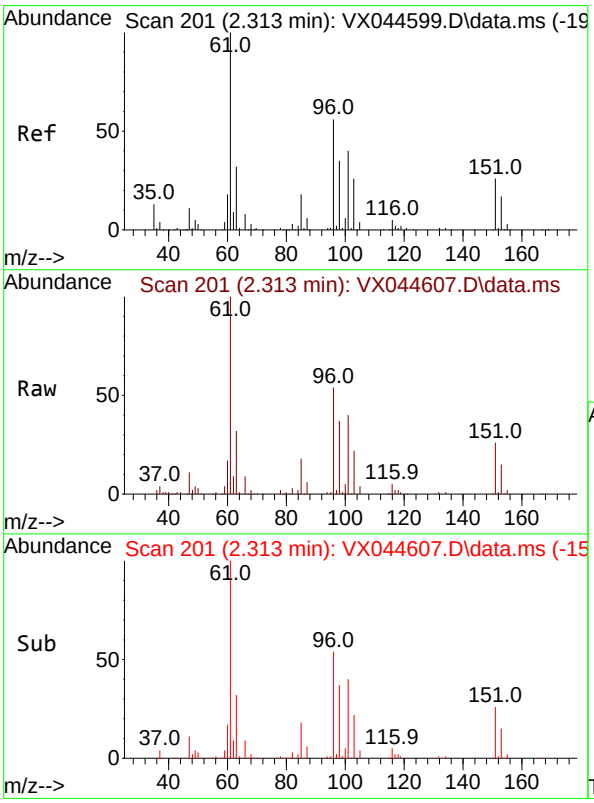
#11
Tert butyl alcohol
Concen: 119.862 ug/l
RT: 2.989 min Scan# 3
Delta R.T. -0.018 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Tgt Ion: 59 Resp: 40868

Ion	Ratio	Lower	Upper
59	100		
57	10.6	8.6	12.8

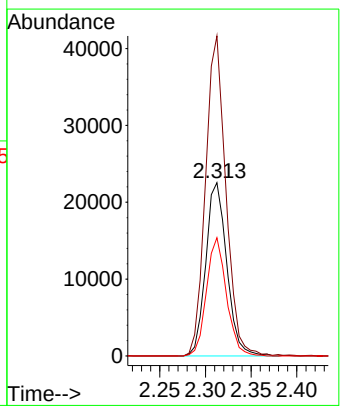


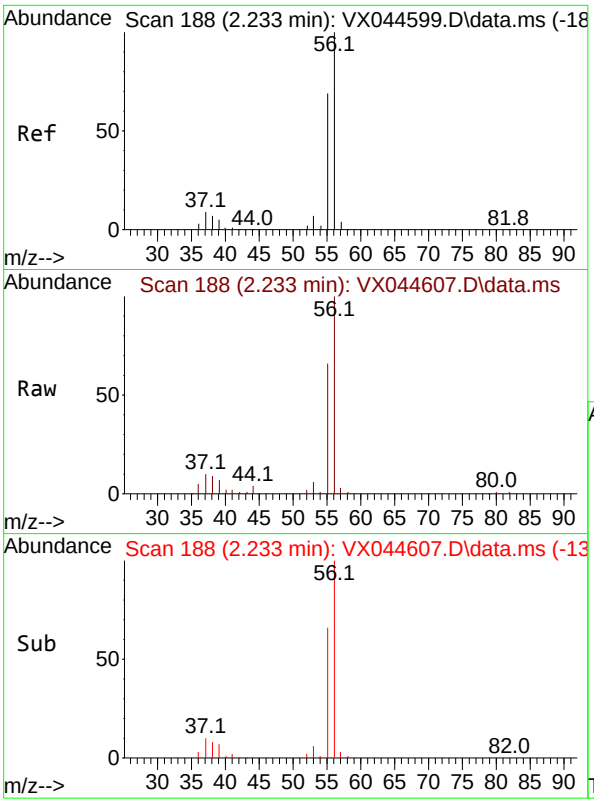


#12
1,1-Dichloroethene
Concen: 18.769 ug/l
RT: 2.313 min Scan# 201
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 96 Resp: 36059

Ion	Ratio	Lower	Upper
96	100		
61	184.7	143.3	214.9
98	68.2	50.6	76.0



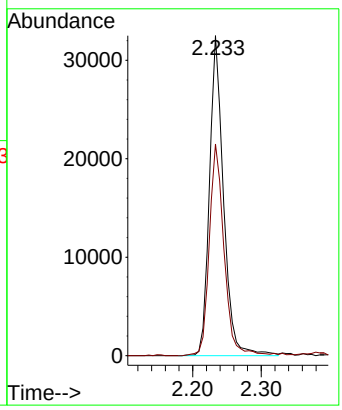


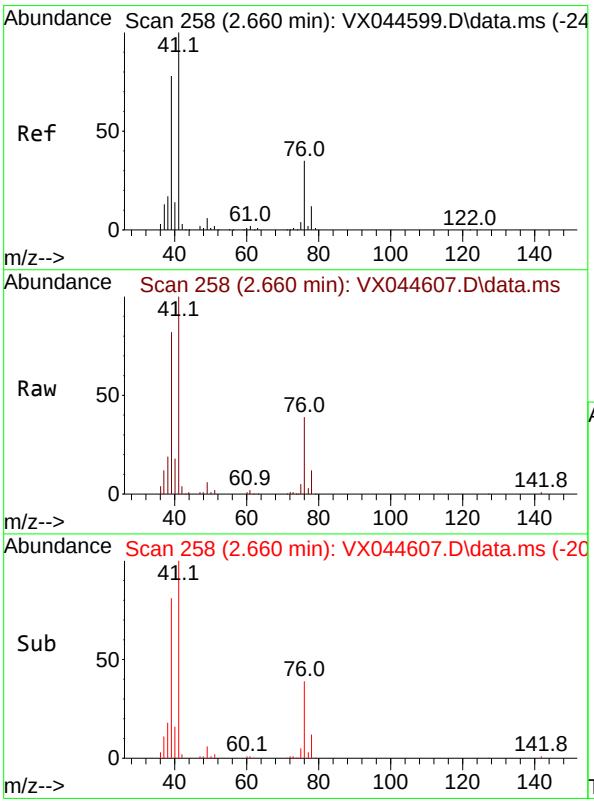
#13
Acrolein
Concen: 103.013 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Tgt Ion: 56 Resp: 46439

Ion	Ratio	Lower	Upper
56	100		
55	69.0	55.8	83.8

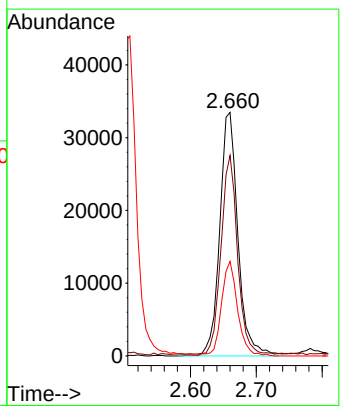


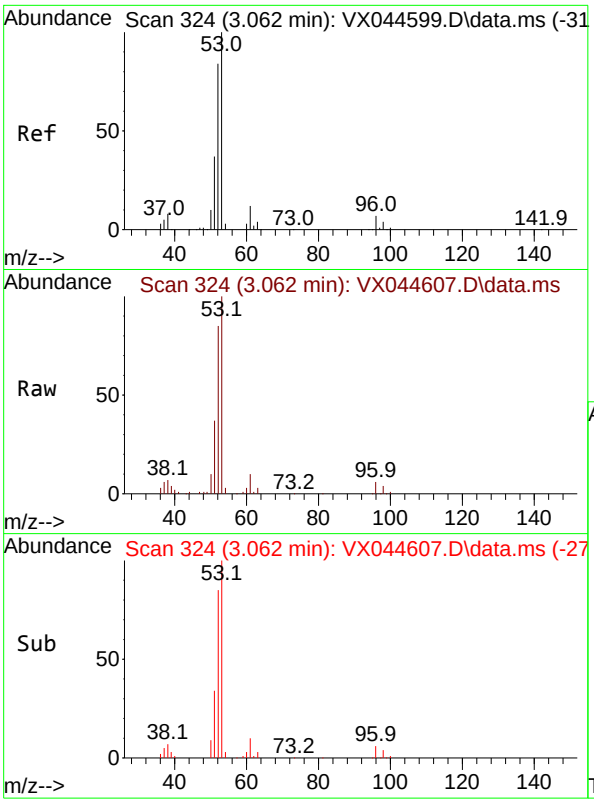


#14
Allyl chloride
Concen: 20.129 ug/l
RT: 2.660 min Scan# 258
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 41 Resp: 64315

Ion	Ratio	Lower	Upper
41	100		
39	73.9	60.2	90.2
76	34.5	25.9	38.9



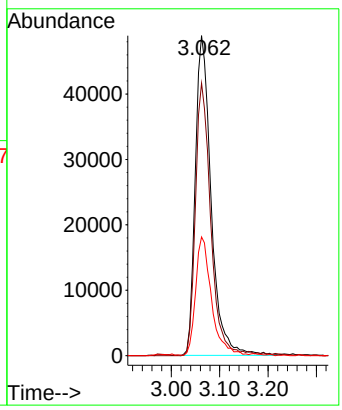


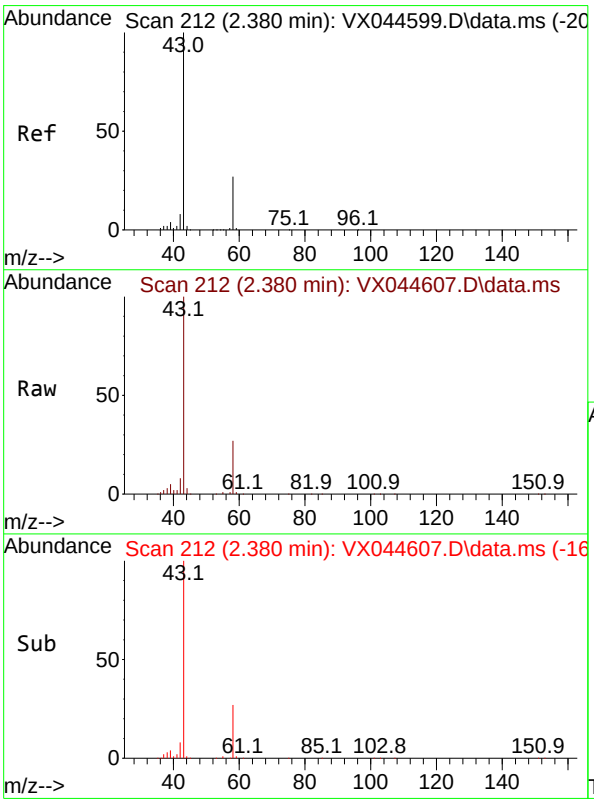
#15
Acrylonitrile
Concen: 113.025 ug/l
RT: 3.062 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Tgt Ion: 53 Resp: 110987

Ion	Ratio	Lower	Upper
53	100		
52	82.3	67.0	100.6
51	37.0	29.4	44.0

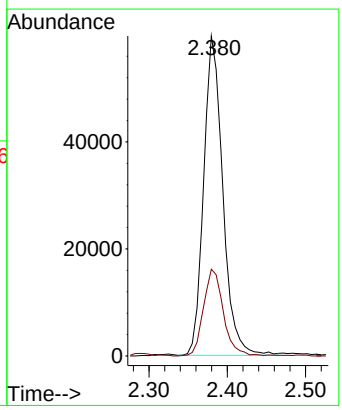


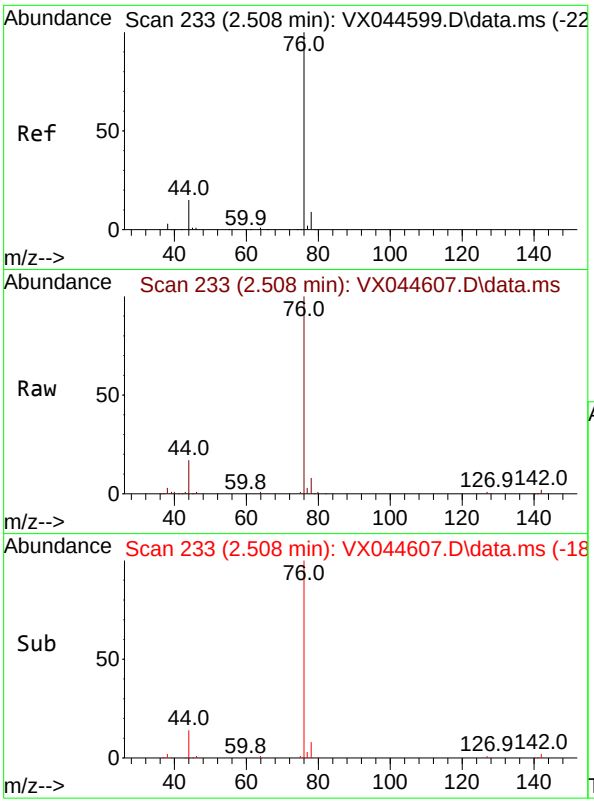


#16
Acetone
Concen: 115.912 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 43 Resp: 101158

Ion	Ratio	Lower	Upper
43	100		
58	27.2	22.0	33.0



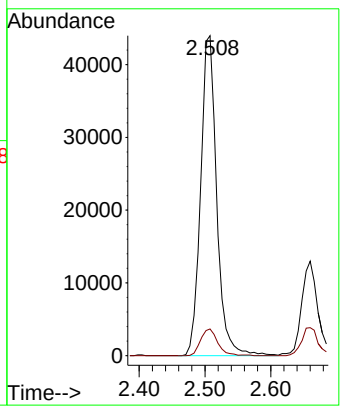


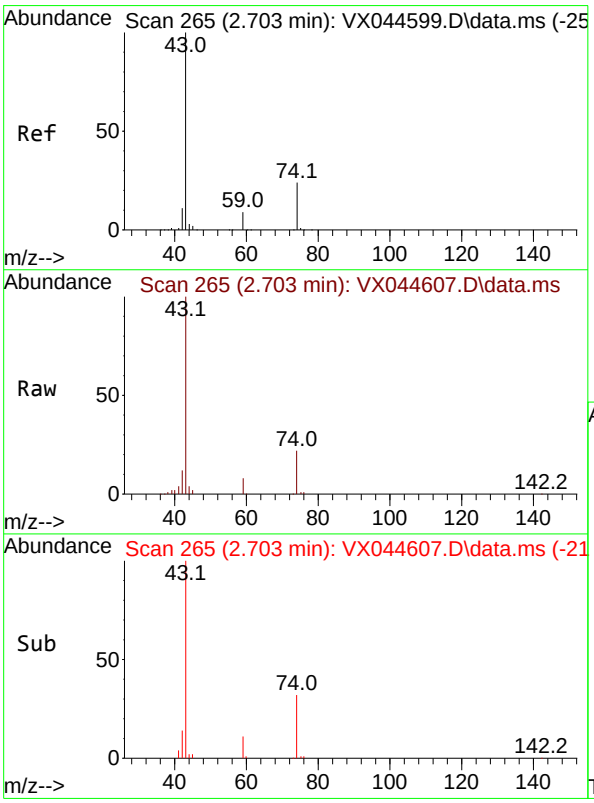
#17
Carbon Disulfide
Concen: 18.850 ug/l
RT: 2.508 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Tgt Ion: 76 Resp: 74882

Ion	Ratio	Lower	Upper
76	100		
78	8.3	7.1	10.7

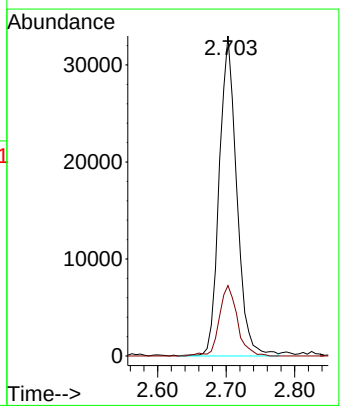


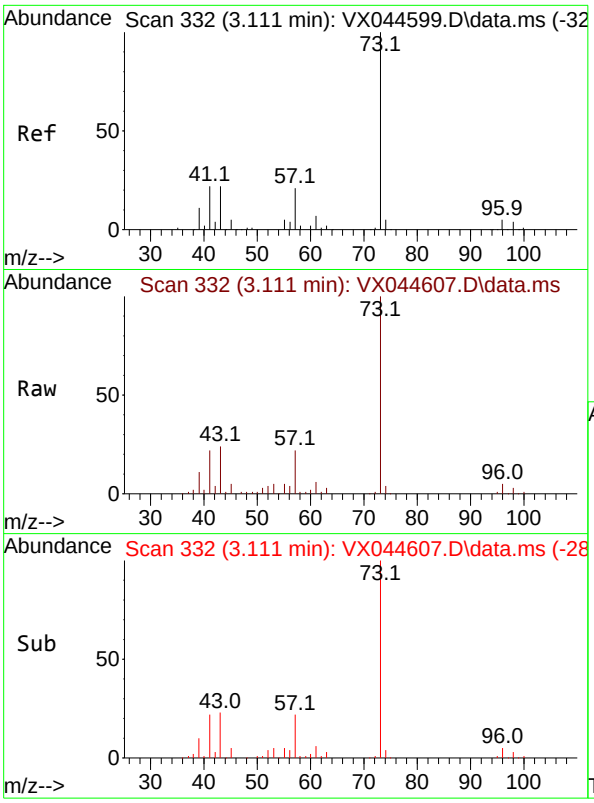


#18
Methyl Acetate
Concen: 22.660 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 43 Resp: 58370

Ion	Ratio	Lower	Upper
43	100		
74	22.7	19.3	28.9



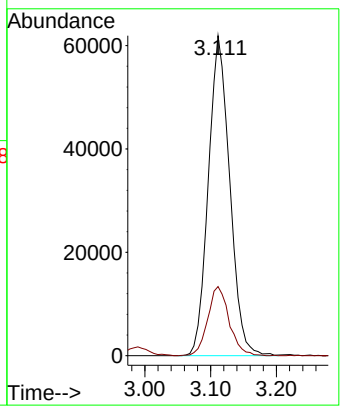


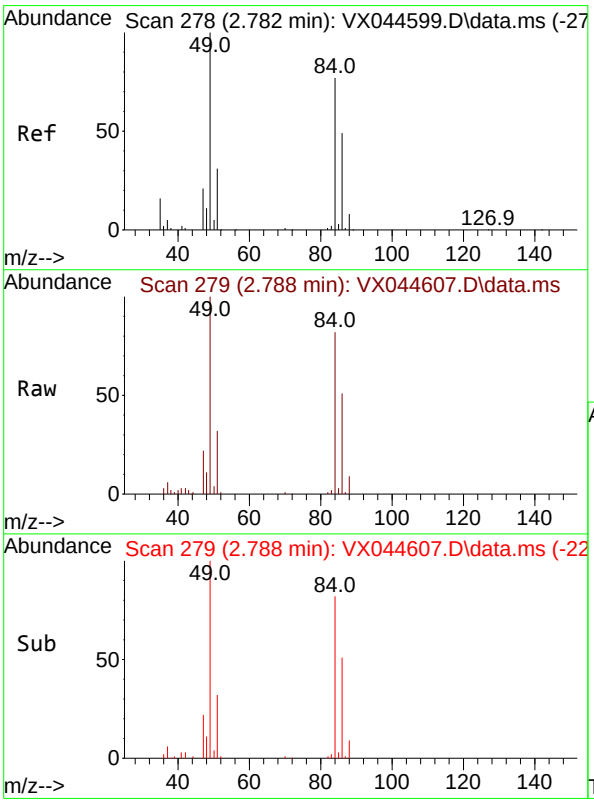
#19
Methyl tert-butyl Ether
Concen: 21.289 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Tgt Ion: 73 Resp: 140165

Ion	Ratio	Lower	Upper
73	100		
57	21.6	17.0	25.4

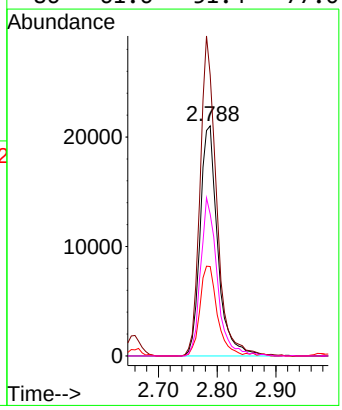


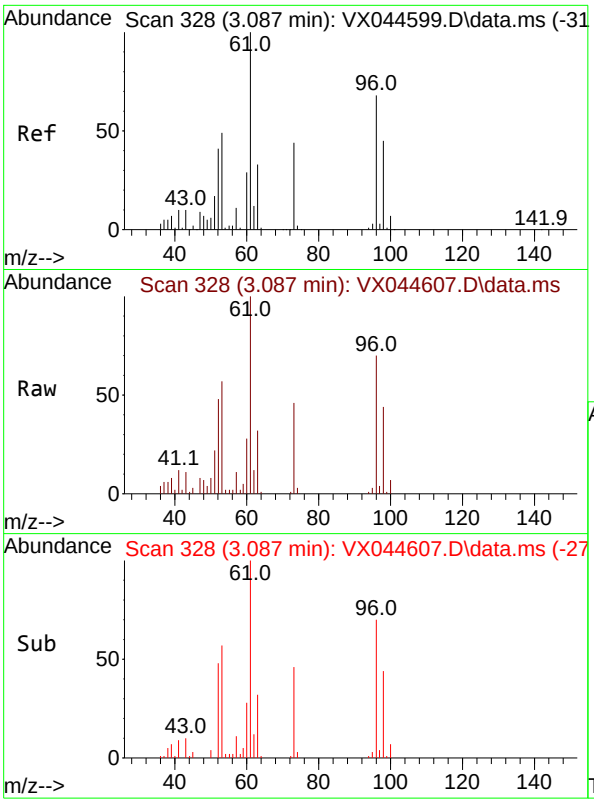


#20
Methylene Chloride
Concen: 19.716 ug/l
RT: 2.788 min Scan# 279
Delta R.T. 0.006 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 84 Resp: 43896

Ion	Ratio	Lower	Upper
84	100		
49	122.0	104.4	156.6
51	38.9	32.0	48.0
86	61.6	51.4	77.0



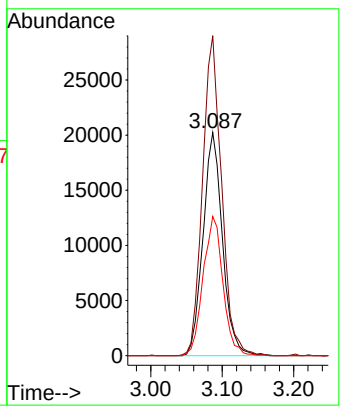


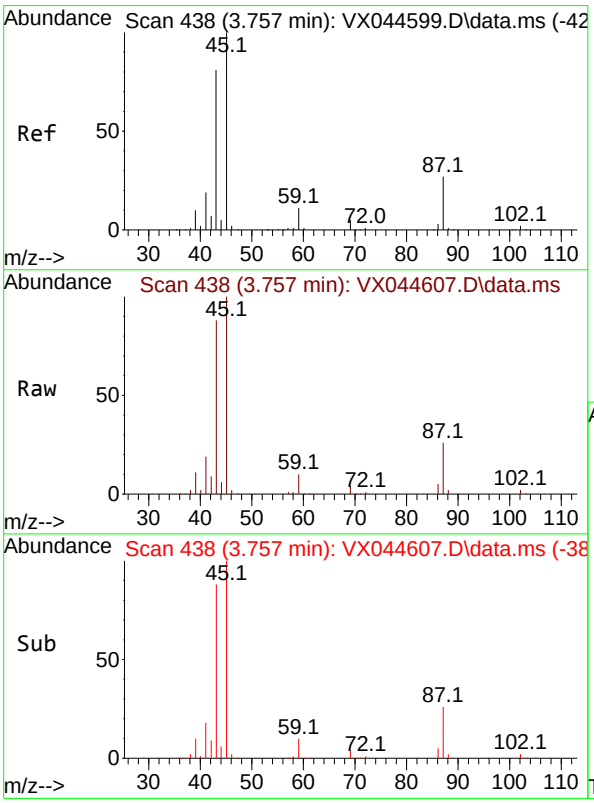
#21
trans-1,2-Dichloroethene
Concen: 19.347 ug/l
RT: 3.087 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Tgt Ion: 96 Resp: 38148

Ion	Ratio	Lower	Upper
96	100		
61	143.3	118.5	177.7
98	62.4	53.4	80.0

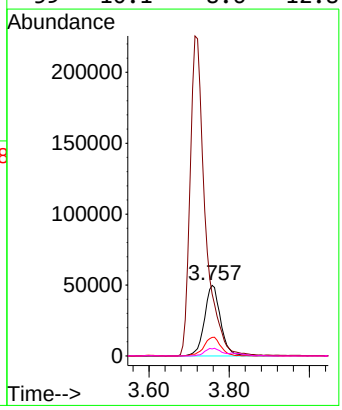


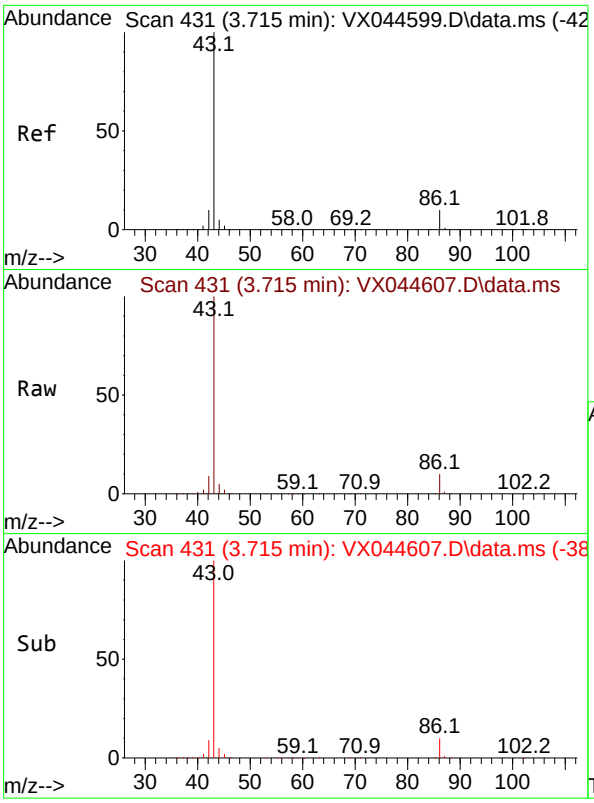


#22
Diisopropyl ether
Concen: 21.120 ug/l
RT: 3.757 min Scan# 438
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 45 Resp: 138717

Ion	Ratio	Lower	Upper
45	100		
43	88.0	64.6	97.0
87	26.4	21.8	32.8
59	10.1	8.6	12.8



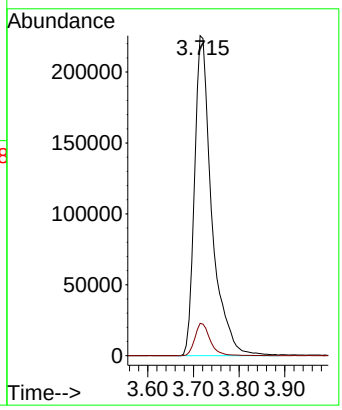


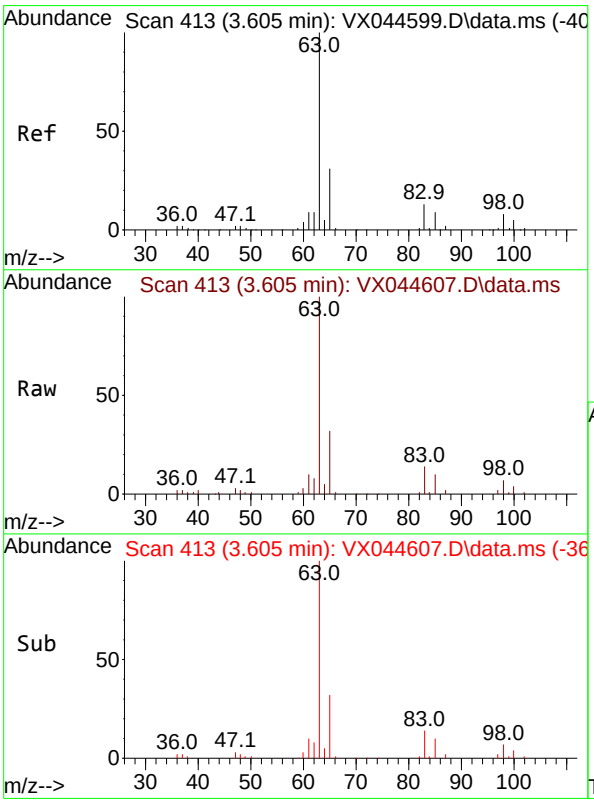
#23
Vinyl Acetate
Concen: 111.391 ug/l
RT: 3.715 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Tgt Ion: 43 Resp: 591636

Ion	Ratio	Lower	Upper
43	100		
86	10.1	8.1	12.1

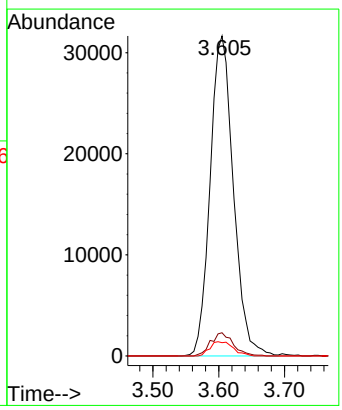


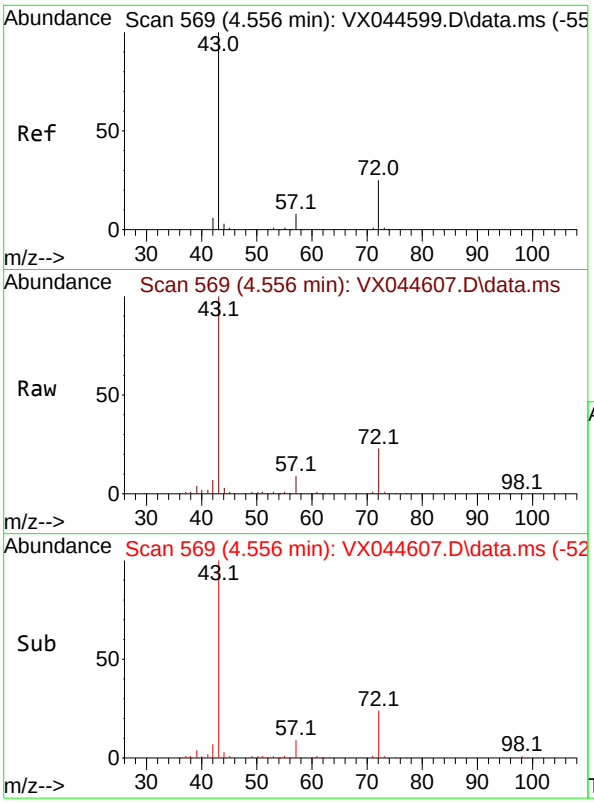


#24
1,1-Dichloroethane
Concen: 20.371 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 63 Resp: 77964

Ion	Ratio	Lower	Upper
63	100		
98	7.2	3.8	11.4
100	4.2	2.4	7.2



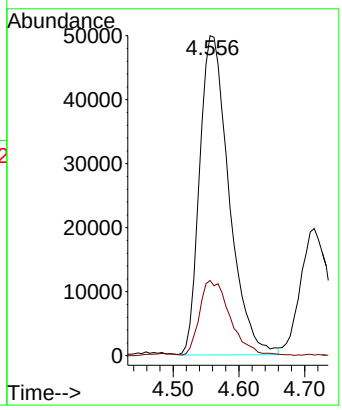


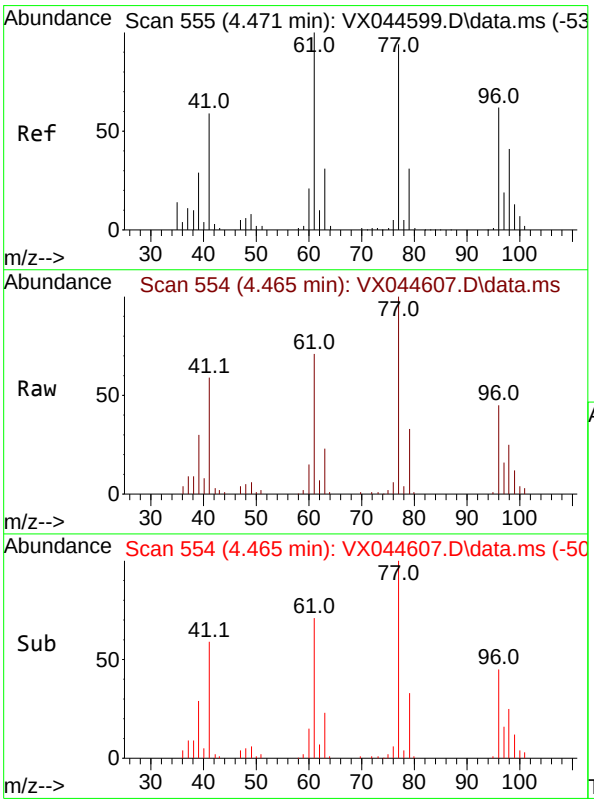
#25
2-Butanone
Concen: 123.050 ug/l
RT: 4.556 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Tgt Ion: 43 Resp: 155002

Ion	Ratio	Lower	Upper
43	100		
72	23.2	20.2	30.2

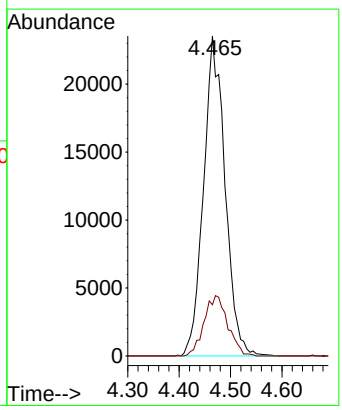


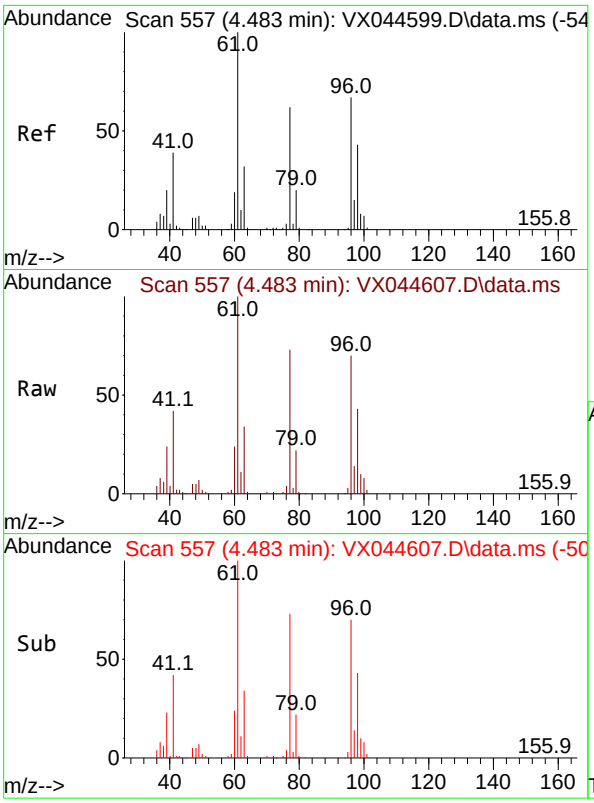


#26
2,2-Dichloropropane
Concen: 20.683 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.006 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 77 Resp: 68439

Ion	Ratio	Lower	Upper
77	100		
97	20.8	10.7	32.1



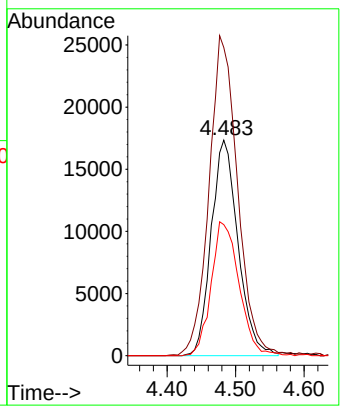


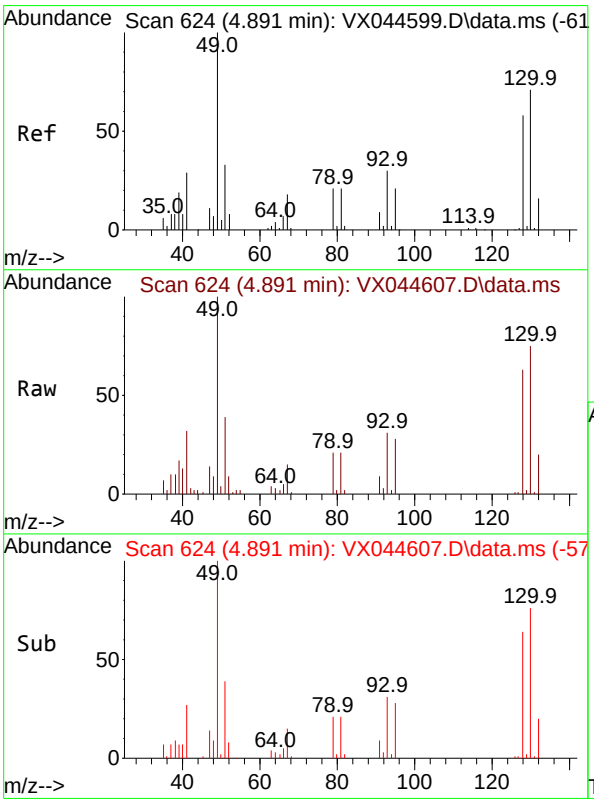
#27
cis-1,2-Dichloroethene
Concen: 19.603 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Tgt Ion: 96 Resp: 47130

Ion	Ratio	Lower	Upper
96	100		
61	158.3	0.0	302.8
98	64.5	0.0	130.0

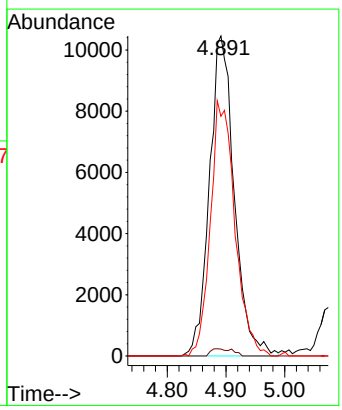


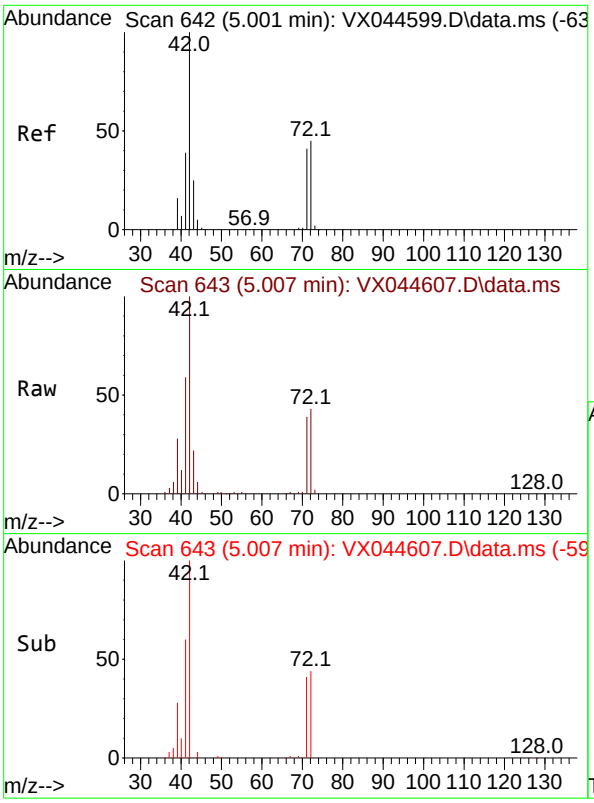


#28
Bromochloromethane
Concen: 17.243 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 49 Resp: 30719

Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	4.2
130	78.4	58.8	88.2



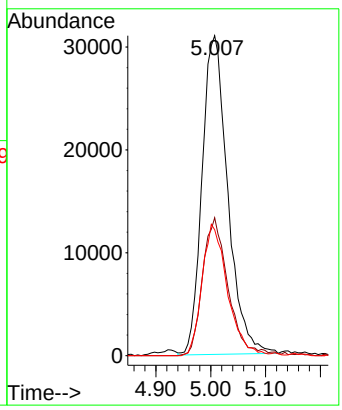


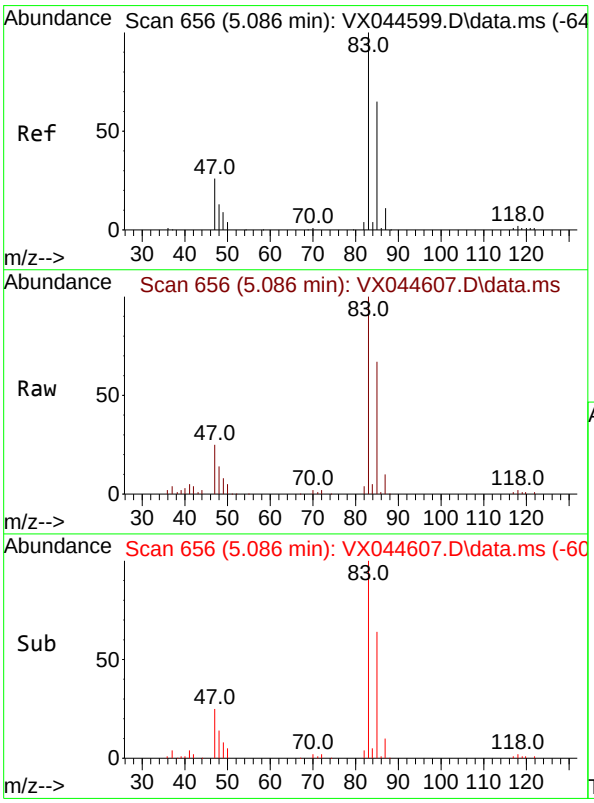
#29
Tetrahydrofuran
Concen: 116.608 ug/l
RT: 5.007 min Scan# 64
Delta R.T. 0.006 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Tgt Ion: 42 Resp: 100588

Ion	Ratio	Lower	Upper
42	100		
72	43.2	36.1	54.1
71	40.8	33.0	49.6

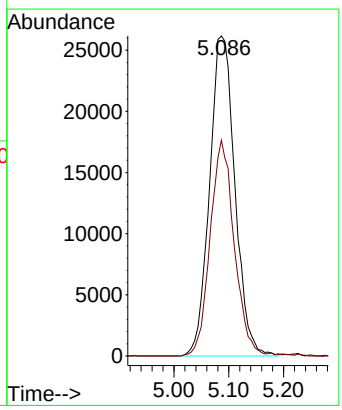


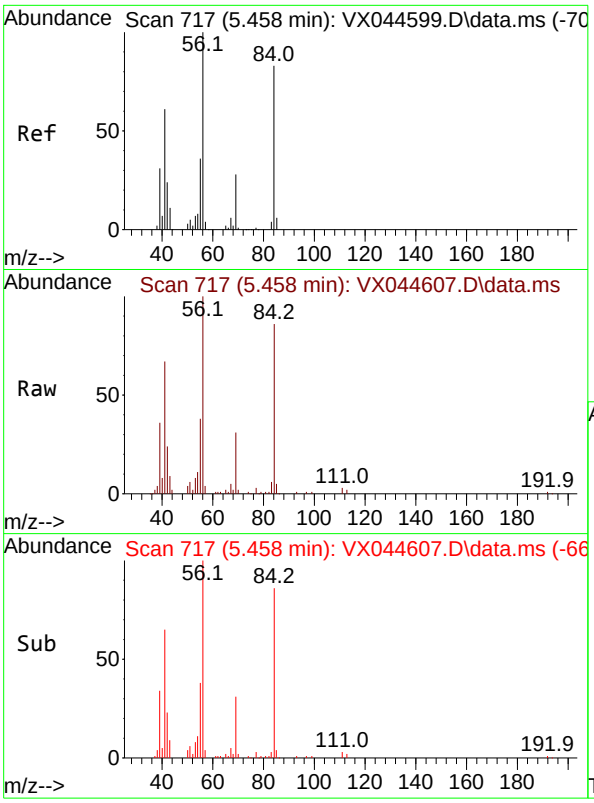


#30
Chloroform
Concen: 20.366 ug/l
RT: 5.086 min Scan# 656
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 83 Resp: 84027

Ion	Ratio	Lower	Upper
83	100		
85	67.4	52.3	78.5



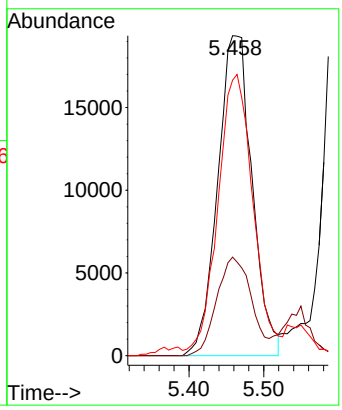


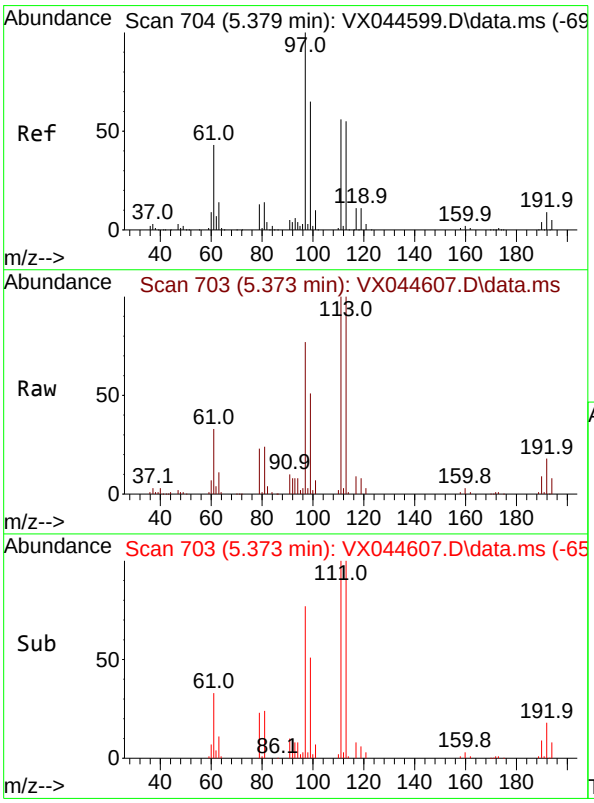
#31
Cyclohexane
Concen: 19.737 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Tgt Ion: 56 Resp: 62019

Ion	Ratio	Lower	Upper
56	100		
69	30.8	22.2	33.4
84	83.4	66.6	100.0

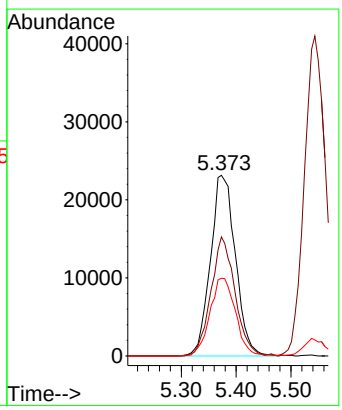


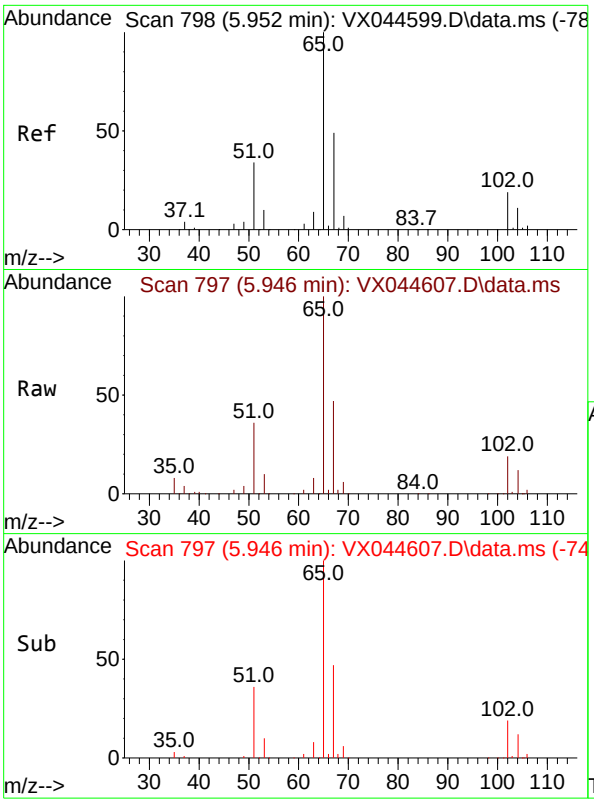


#32
1,1,1-Trichloroethane
Concen: 21.092 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.006 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 97 Resp: 73236

Ion	Ratio	Lower	Upper
97	100		
99	63.4	52.1	78.1
61	43.9	36.8	55.2



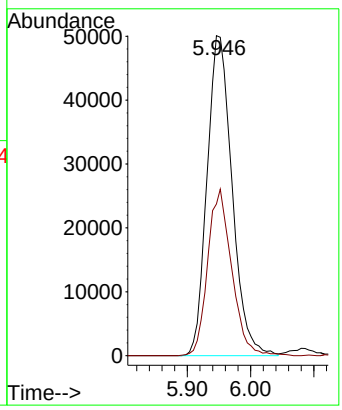


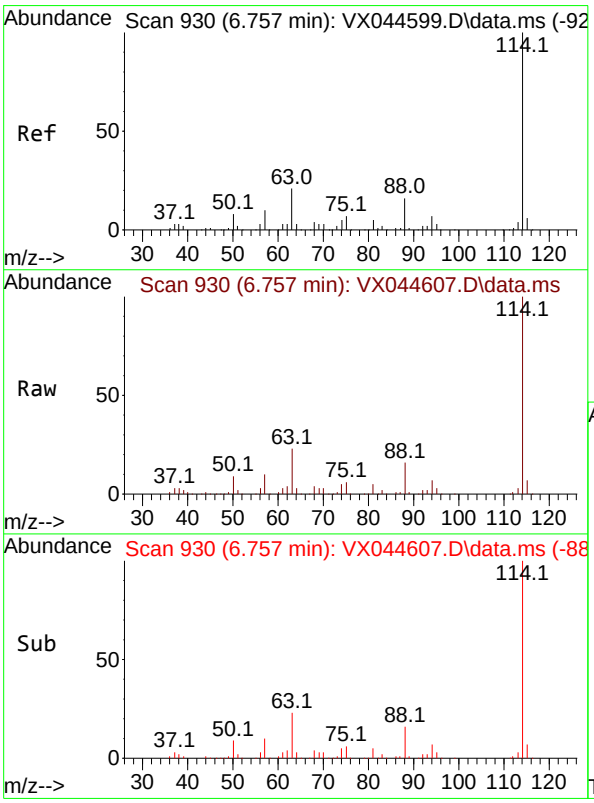
#33
1,2-Dichloroethane-d4
Concen: 49.741 ug/l
RT: 5.946 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Tgt Ion: 65 Resp: 137729

Ion	Ratio	Lower	Upper
65	100		
67	49.9	0.0	99.0

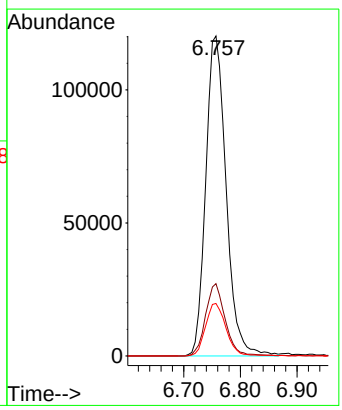


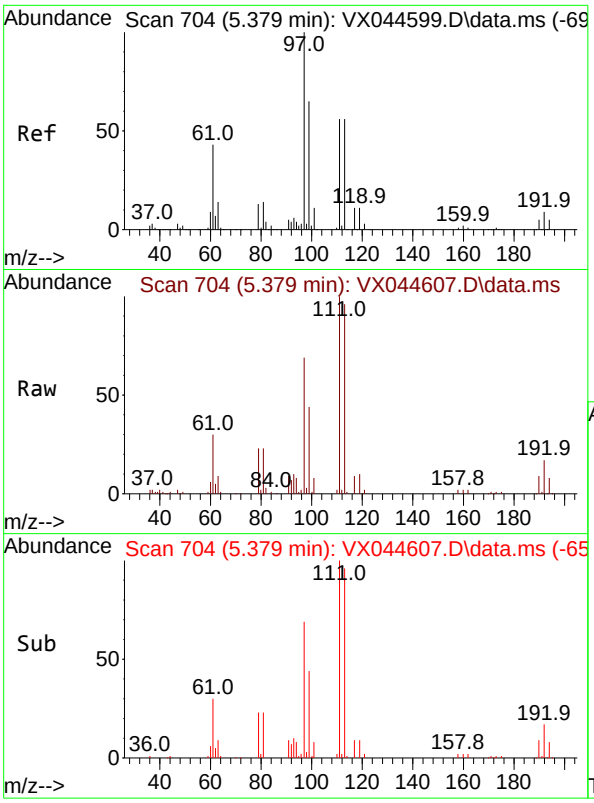


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion:114 Resp: 300759

Ion	Ratio	Lower	Upper
114	100		
63	22.6	0.0	42.6
88	16.4	0.0	32.6



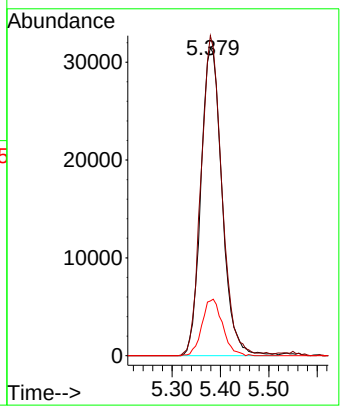


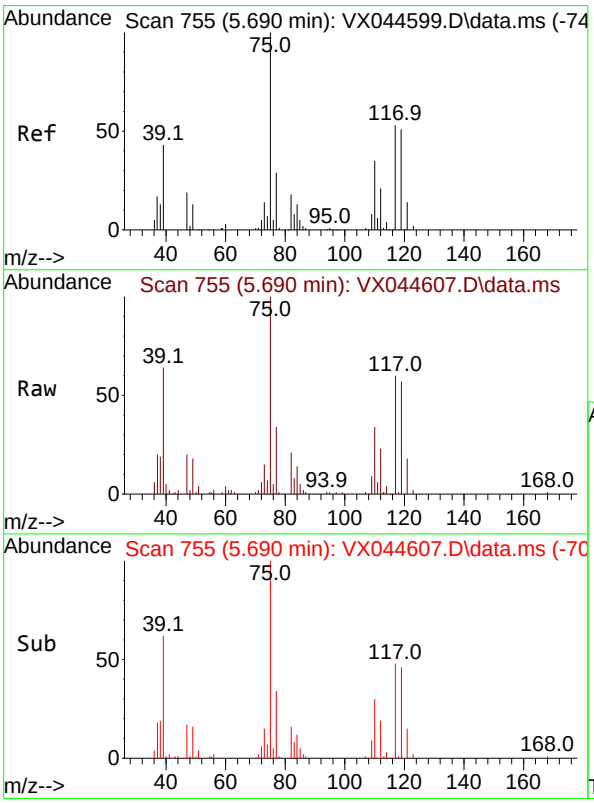
#35
Dibromofluoromethane
Concen: 46.327 ug/l
RT: 5.379 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Tgt Ion:113 Resp: 95542

Ion	Ratio	Lower	Upper
113	100		
111	102.1	83.3	124.9
192	17.9	14.3	21.5

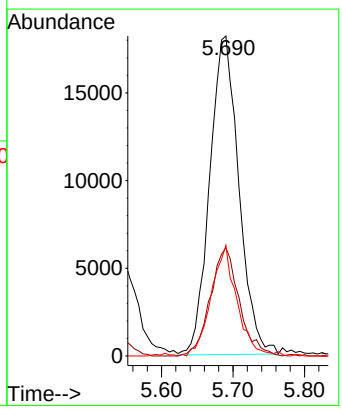


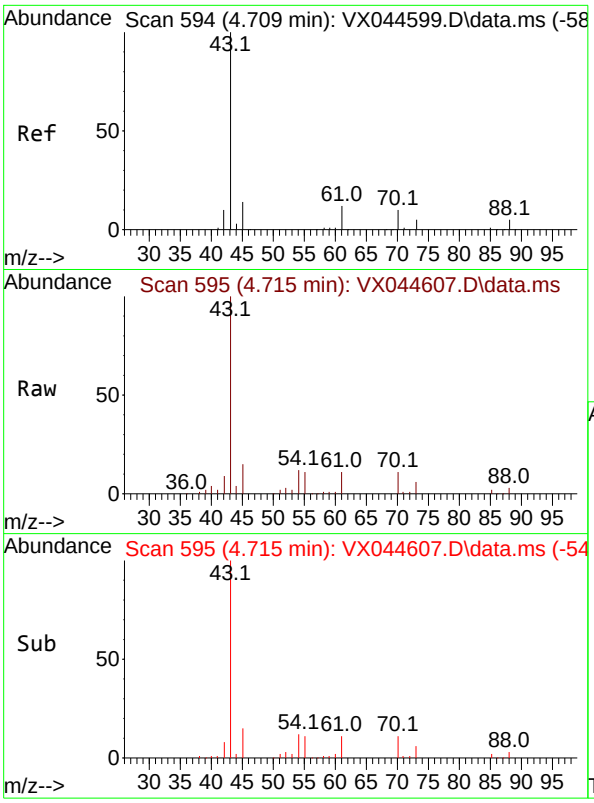


#36
1,1-Dichloropropene
Concen: 19.287 ug/l
RT: 5.690 min Scan# 755
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 75 Resp: 51434

Ion	Ratio	Lower	Upper
75	100		
110	33.7	17.3	51.9
77	30.8	24.7	37.1



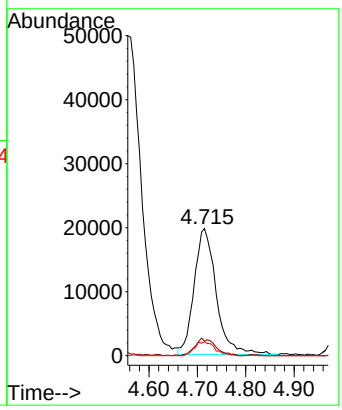


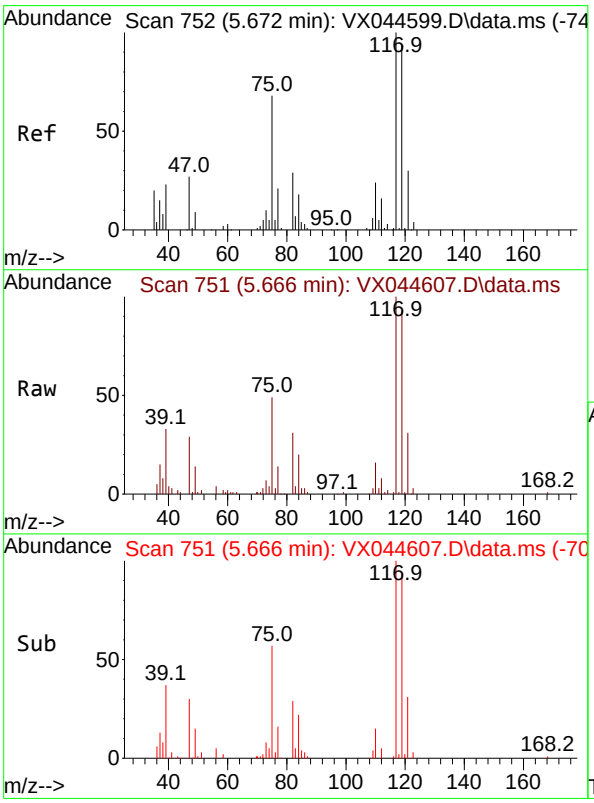
#37
Ethyl Acetate
Concen: 22.951 ug/l
RT: 4.715 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Tgt Ion: 43 Resp: 62610

Ion	Ratio	Lower	Upper
43	100		
61	12.9	9.9	14.9
70	10.1	8.0	12.0

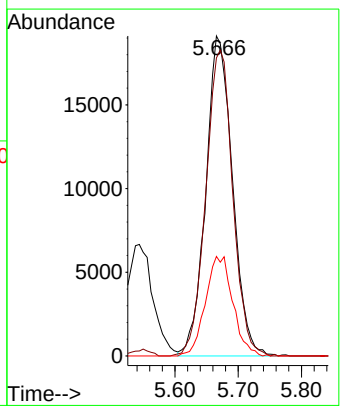


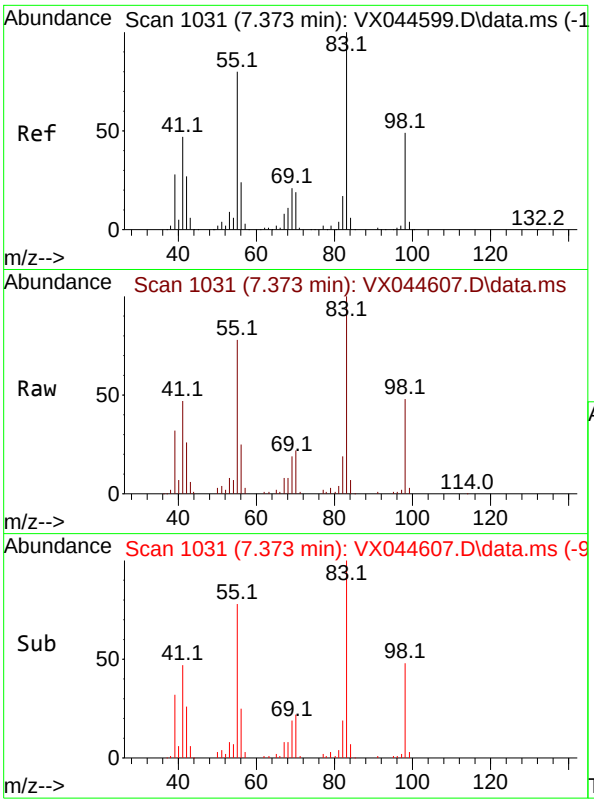


#38
Carbon Tetrachloride
Concen: 18.987 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion:117 Resp: 56180

Ion	Ratio	Lower	Upper
117	100		
119	93.1	74.5	111.7
121	31.1	24.1	36.1



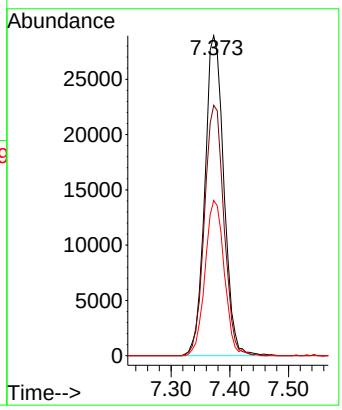


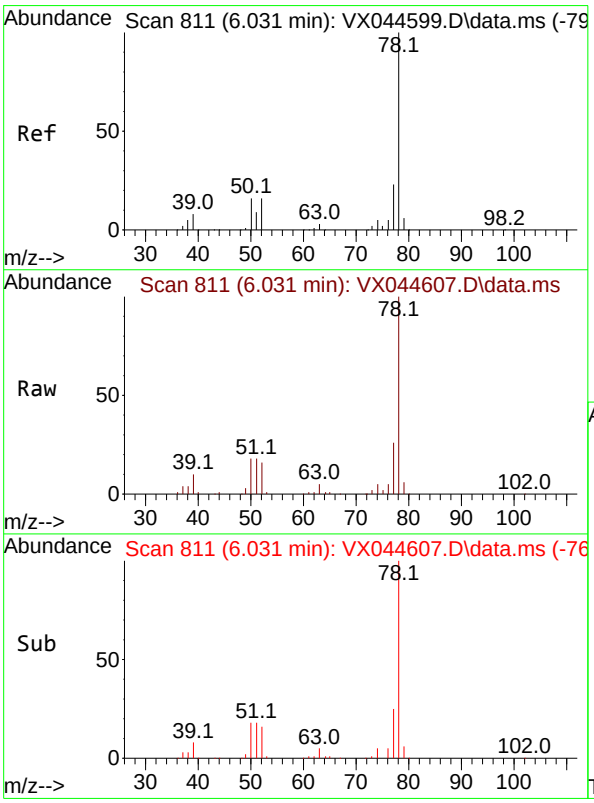
#39
Methylcyclohexane
Concen: 19.073 ug/l
RT: 7.373 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Tgt Ion: 83 Resp: 64900

Ion	Ratio	Lower	Upper
83	100		
55	78.2	64.1	96.1
98	48.5	38.9	58.3

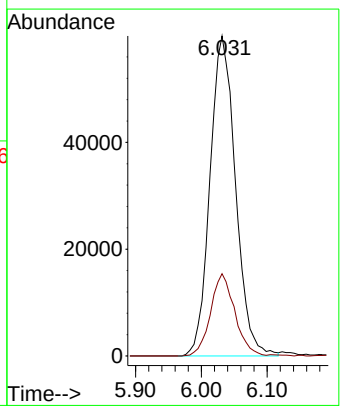


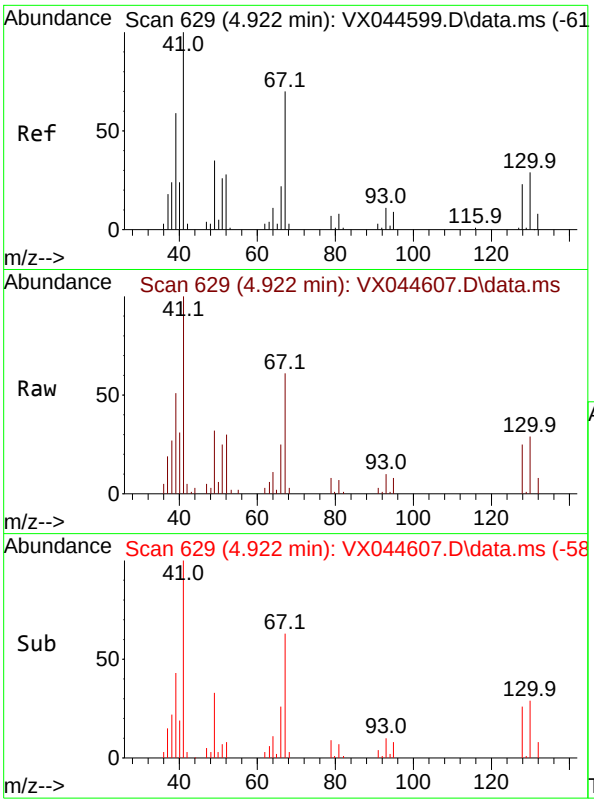


#40
Benzene
Concen: 19.300 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 78 Resp: 162053

Ion	Ratio	Lower	Upper
78	100		
77	25.7	18.8	28.2



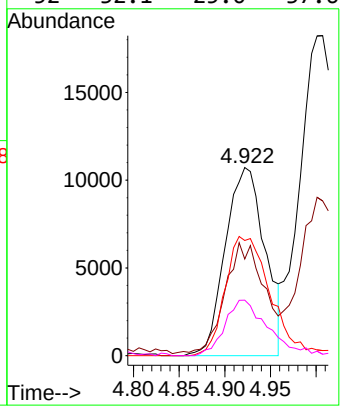


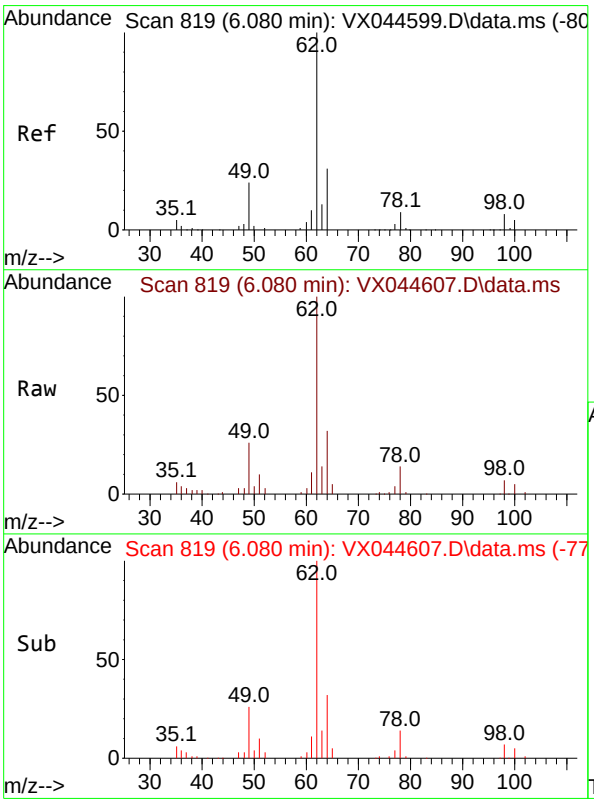
#41
Methacrylonitrile
Concen: 22.184 ug/l
RT: 4.922 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Tgt Ion: 41 Resp: 32484

Ion	Ratio	Lower	Upper
41	100		
39	56.3	47.0	70.4
67	72.9	57.4	86.2
52	32.1	25.0	37.6

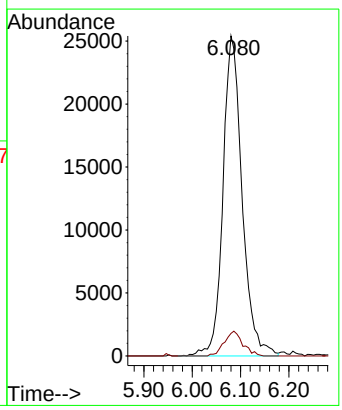


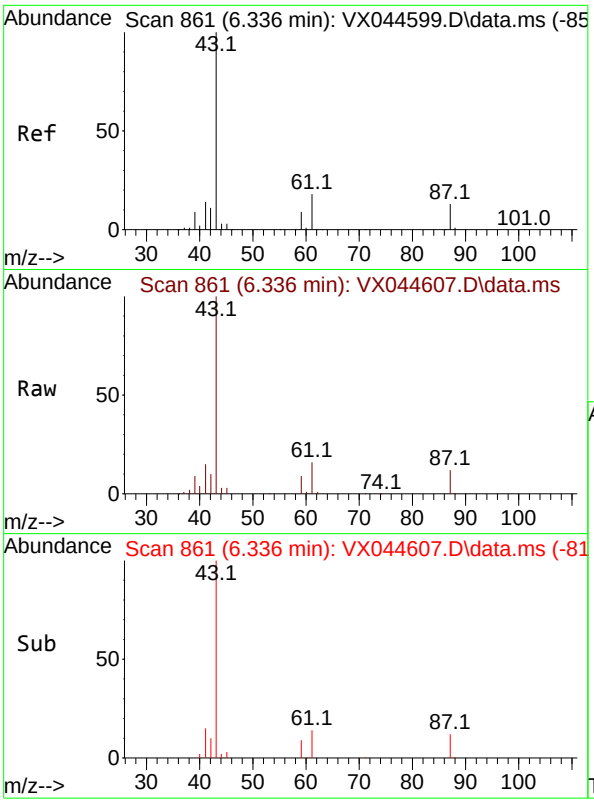


#42
1,2-Dichloroethane
Concen: 21.323 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 62 Resp: 70018

Ion	Ratio	Lower	Upper
62	100		
98	7.6	0.0	15.8



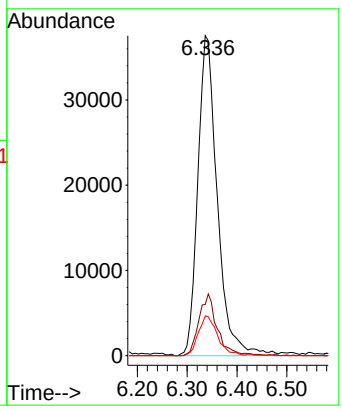


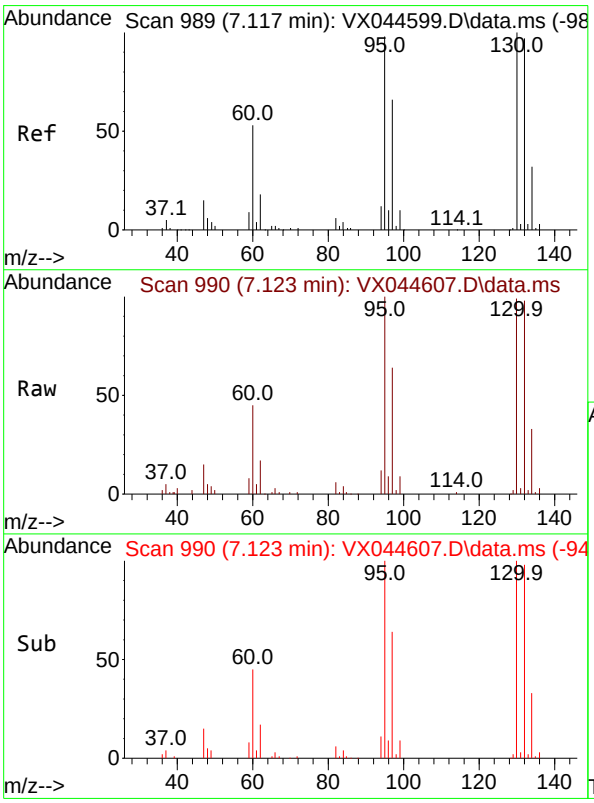
#43
Isopropyl Acetate
Concen: 22.650 ug/l
RT: 6.336 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Tgt Ion: 43 Resp: 101940

Ion	Ratio	Lower	Upper
43	100		
61	18.1	14.5	21.7
87	12.2	10.1	15.1

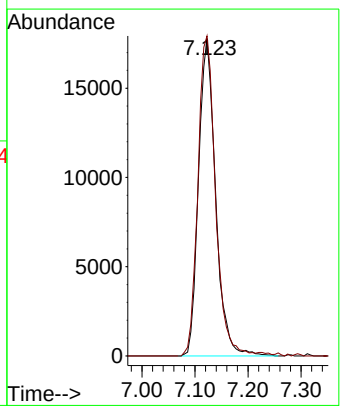


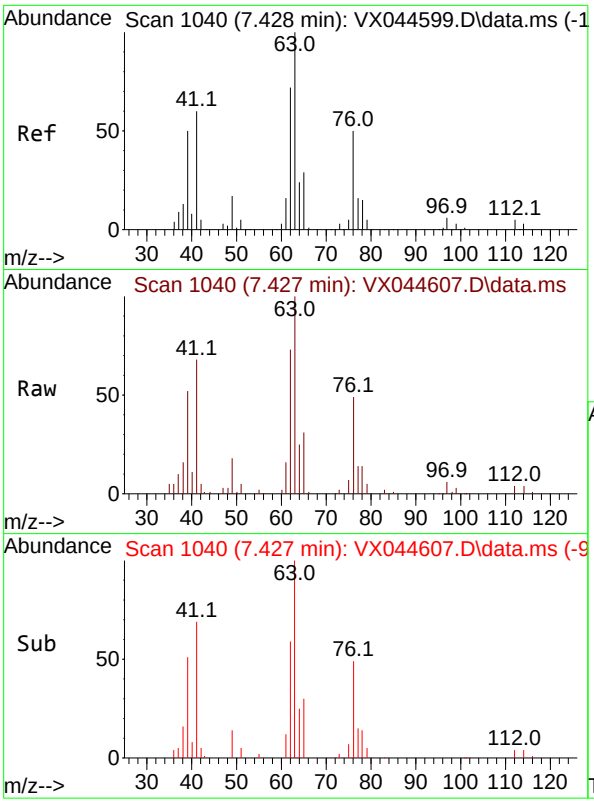


#44
Trichloroethene
Concen: 18.511 ug/l
RT: 7.123 min Scan# 990
Delta R.T. 0.006 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion:130 Resp: 39732

Ion	Ratio	Lower	Upper
130	100		
95	100.8	0.0	195.6



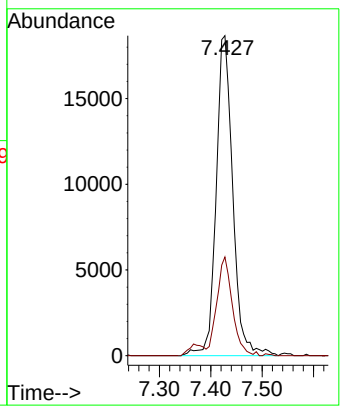


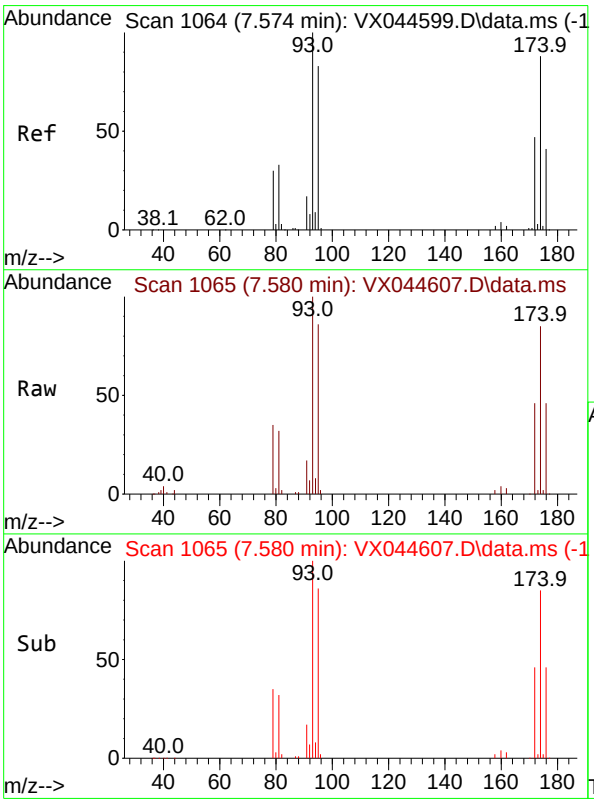
#45
1,2-Dichloropropane
Concen: 20.496 ug/l
RT: 7.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Tgt Ion: 63 Resp: 41958

Ion	Ratio	Lower	Upper
63	100		
65	30.9	23.0	34.4

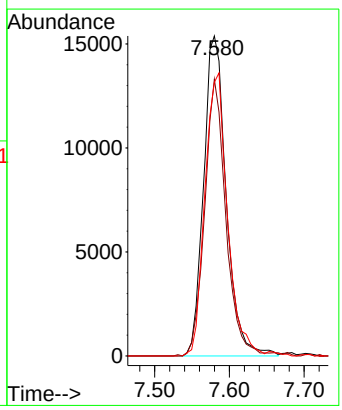


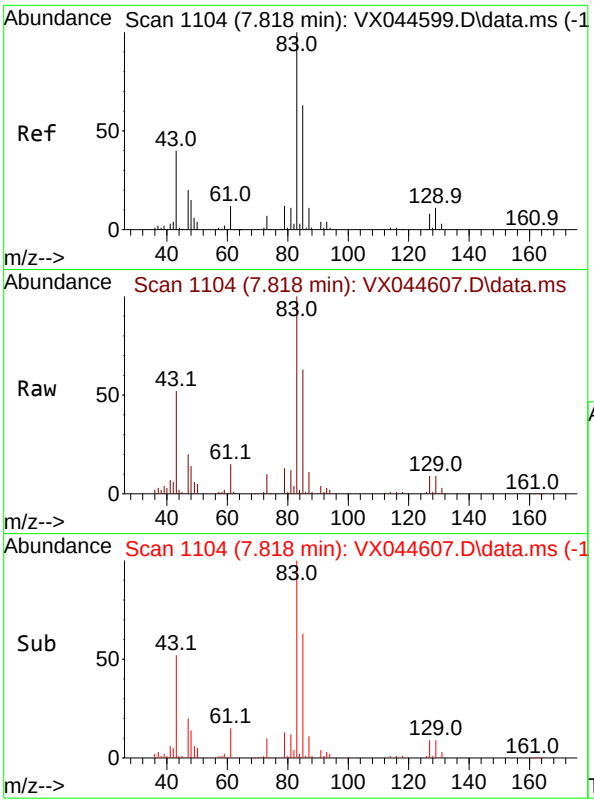


#46
Dibromomethane
Concen: 20.317 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. 0.006 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 93 Resp: 32347

Ion	Ratio	Lower	Upper
93	100		
95	81.1	65.8	98.6
174	88.2	73.4	110.0



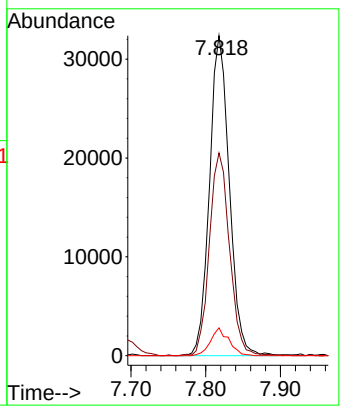


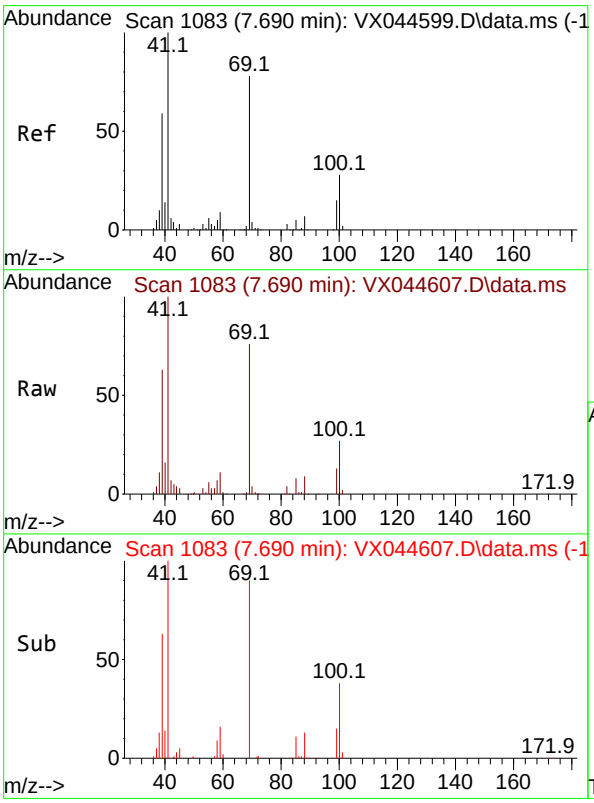
#47
Bromodichloromethane
Concen: 20.596 ug/l
RT: 7.818 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Tgt Ion: 83 Resp: 59672

Ion	Ratio	Lower	Upper
83	100		
85	63.4	50.4	75.6
127	8.7	6.2	9.4

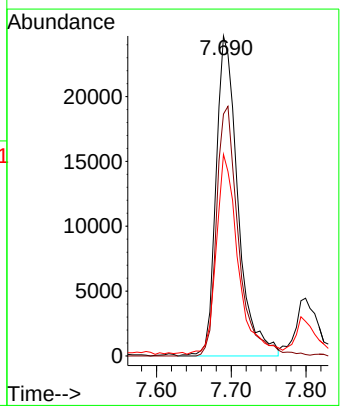


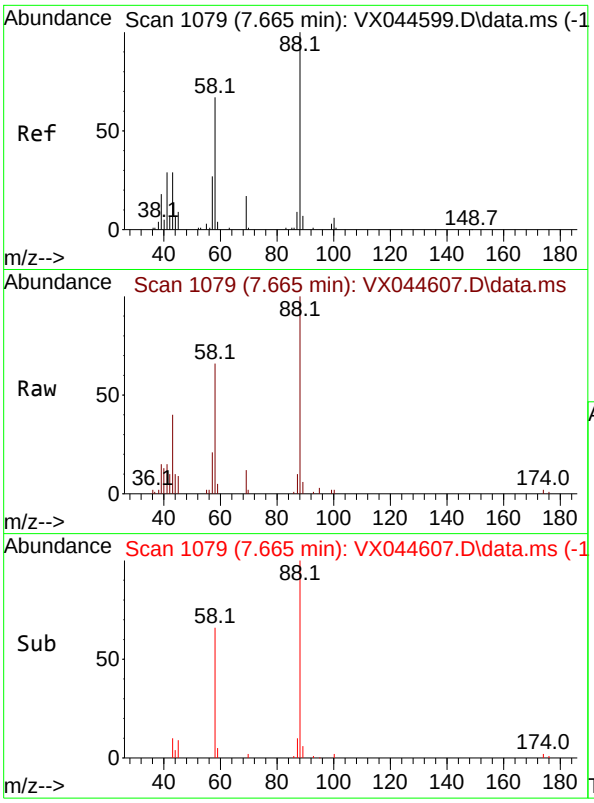


#48
Methyl methacrylate
Concen: 23.451 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 41 Resp: 50339

Ion	Ratio	Lower	Upper
41	100		
69	78.4	62.9	94.3
39	62.4	48.9	73.3



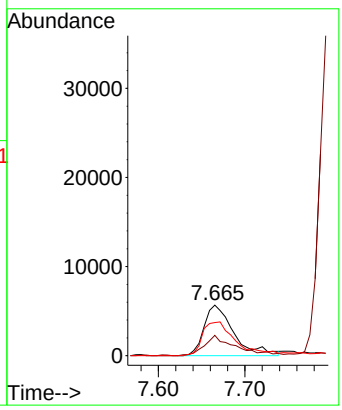


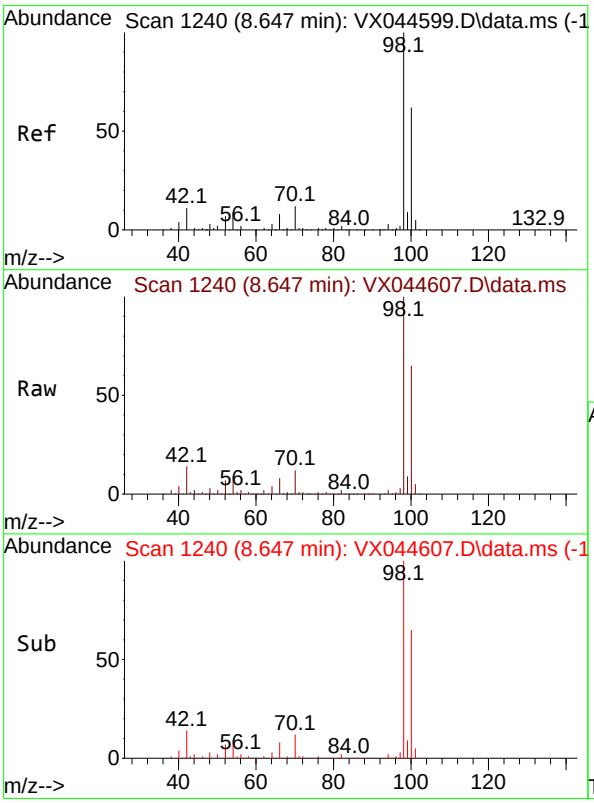
#49
1,4-Dioxane
Concen: 428.762 ug/l
RT: 7.665 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Tgt Ion: 88 Resp: 13525

Ion	Ratio	Lower	Upper
88	100		
43	41.7	29.5	44.3
58	79.2	56.3	84.5

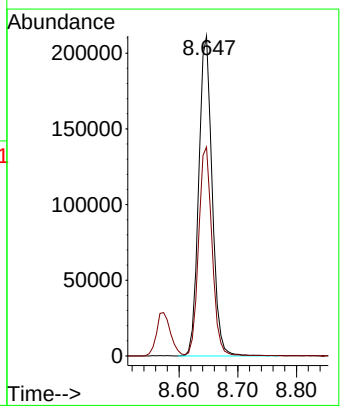


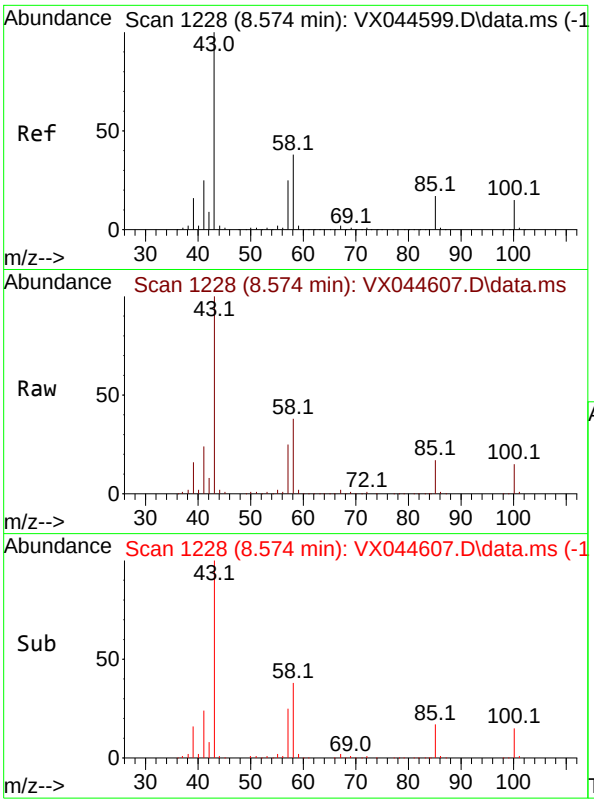


#50
Toluene-d8
Concen: 47.539 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 98 Resp: 334889

Ion	Ratio	Lower	Upper
98	100		
100	65.5	52.5	78.7



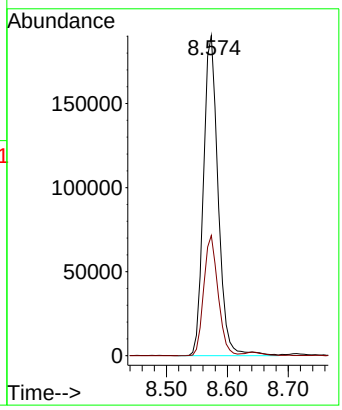


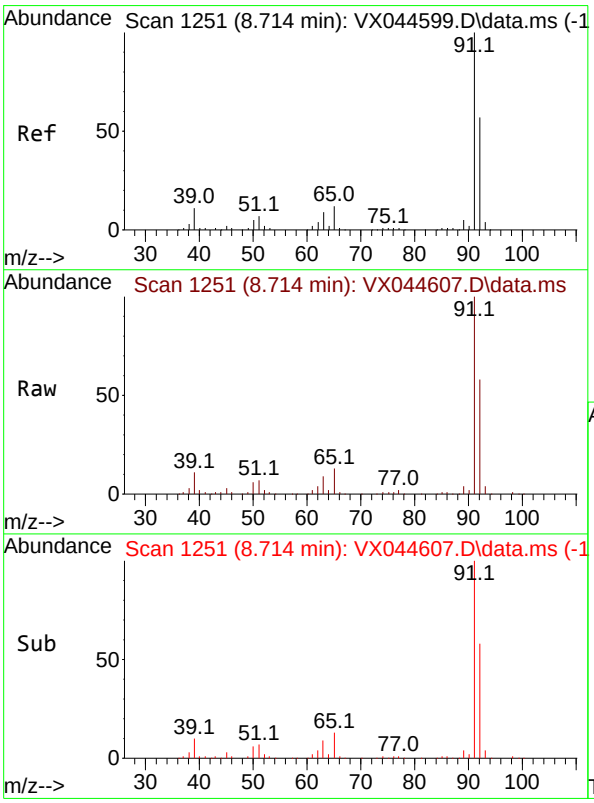
#51
4-Methyl-2-Pentanone
Concen: 121.261 ug/l
RT: 8.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Tgt Ion: 43 Resp: 319022

Ion	Ratio	Lower	Upper
43	100		
58	36.5	30.0	45.0

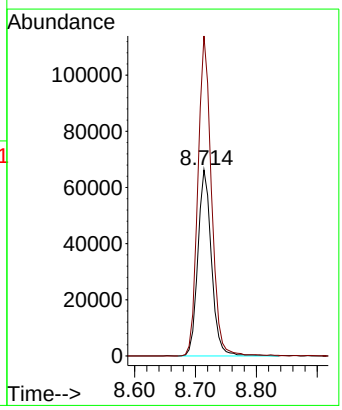


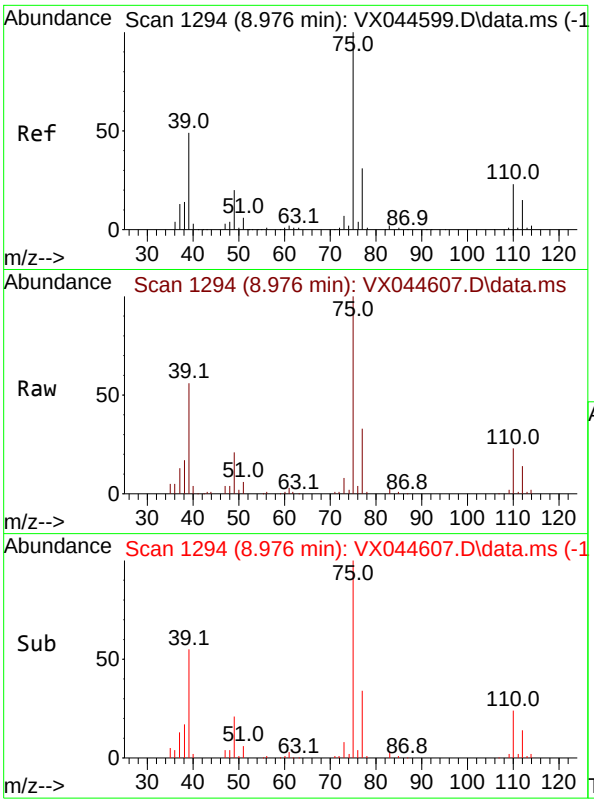


#52
Toluene
Concen: 20.292 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 92 Resp: 102803

Ion	Ratio	Lower	Upper
92	100		
91	170.8	140.6	210.8



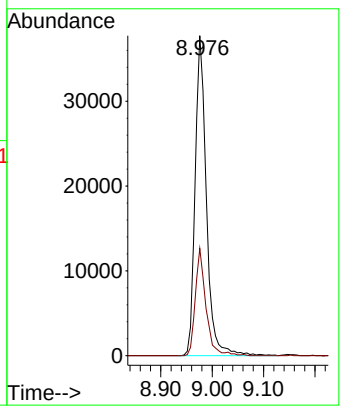


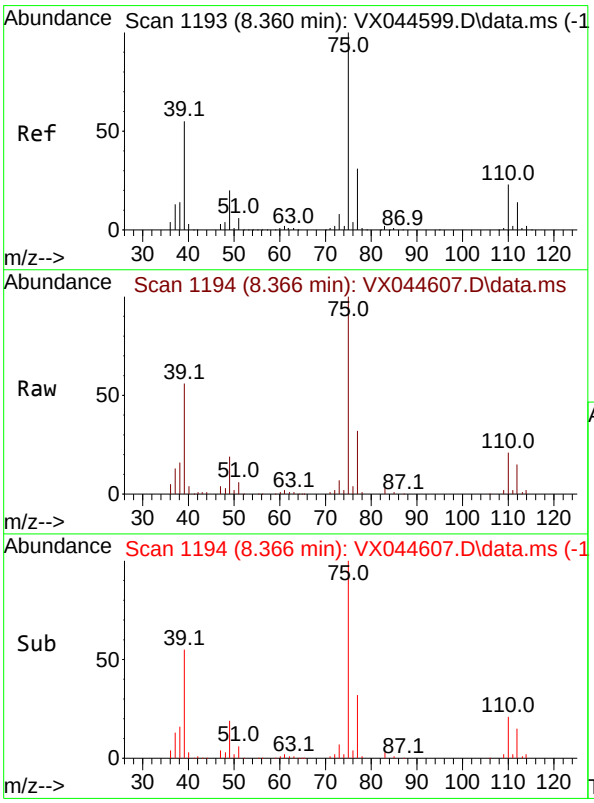
#53
t-1,3-Dichloropropene
Concen: 20.805 ug/l
RT: 8.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Tgt Ion: 75 Resp: 57617

Ion	Ratio	Lower	Upper
75	100		
77	33.5	24.8	37.2

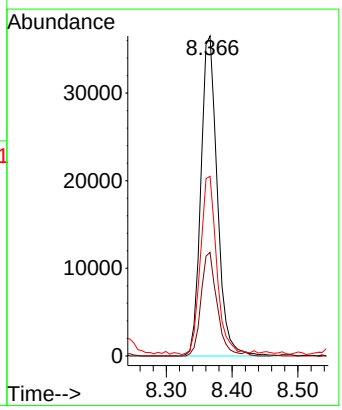


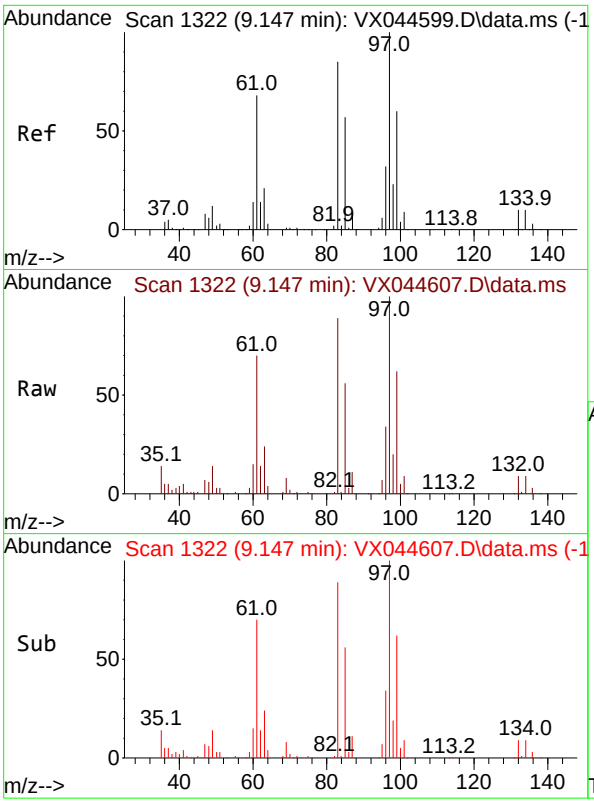


#54
cis-1,3-Dichloropropene
Concen: 20.417 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.006 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 75 Resp: 63548

Ion	Ratio	Lower	Upper
75	100		
77	32.3	24.5	36.7
39	55.3	44.3	66.5



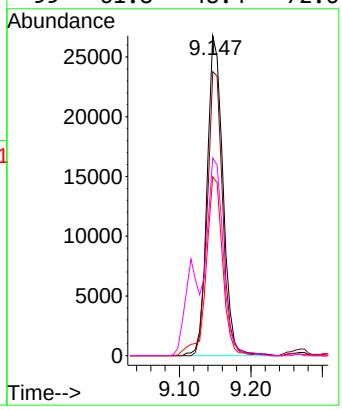


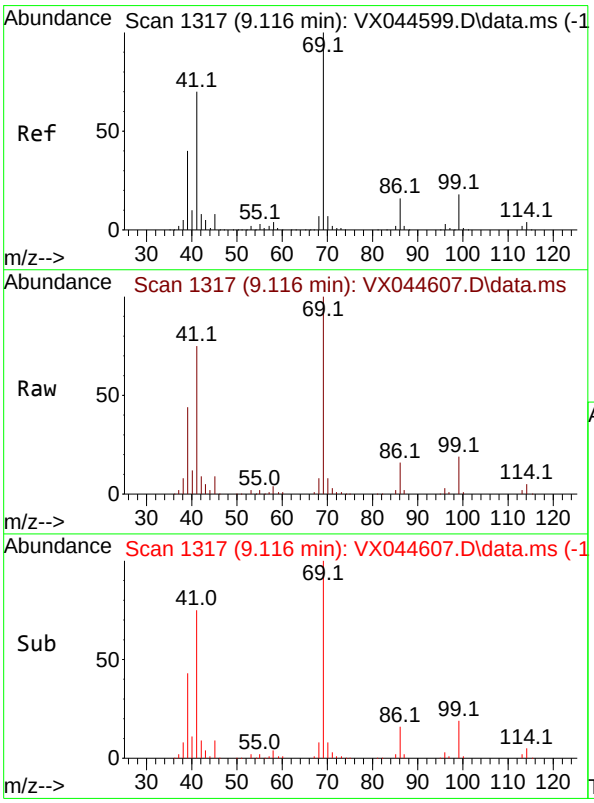
#55
1,1,2-Trichloroethane
Concen: 20.668 ug/l
RT: 9.147 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Tgt Ion: 97 Resp: 41049

Ion	Ratio	Lower	Upper
97	100		
83	88.8	68.0	102.0
85	55.9	45.4	68.0
99	61.8	48.4	72.6

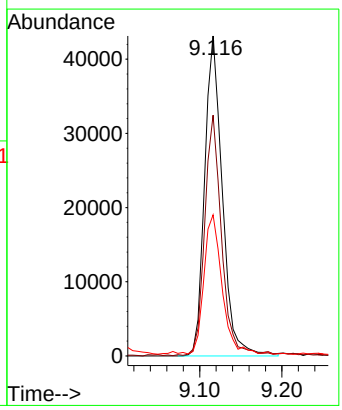


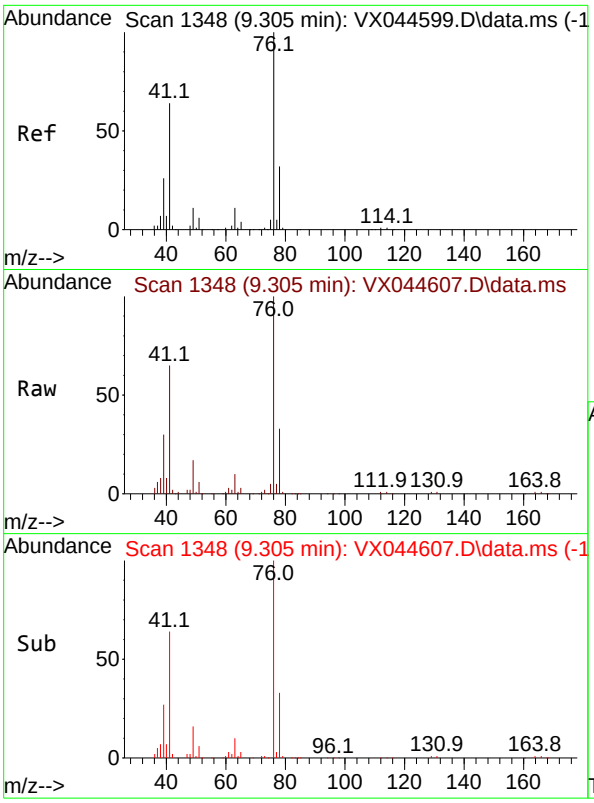


#56
Ethyl methacrylate
Concen: 22.340 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 69 Resp: 64529

Ion	Ratio	Lower	Upper
69	100		
41	71.6	57.7	86.5
39	44.2	33.7	50.5



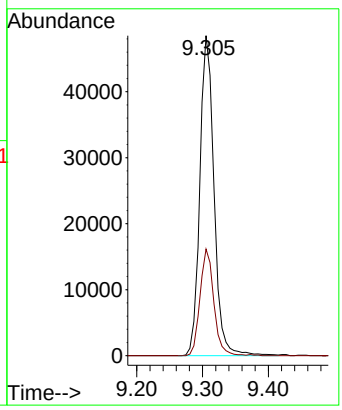


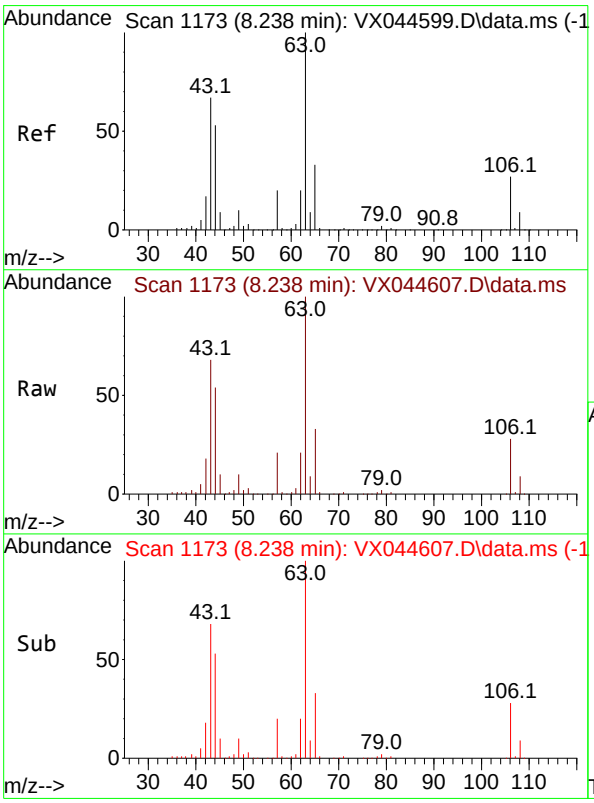
#57
1,3-Dichloropropane
Concen: 21.824 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Tgt Ion: 76 Resp: 72788

Ion	Ratio	Lower	Upper
76	100		
78	32.3	25.8	38.8

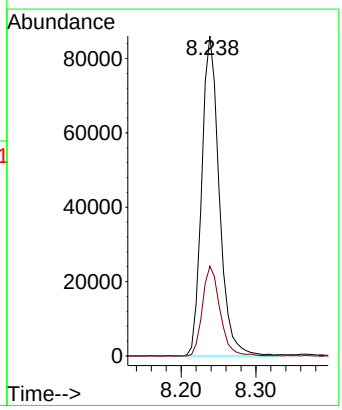


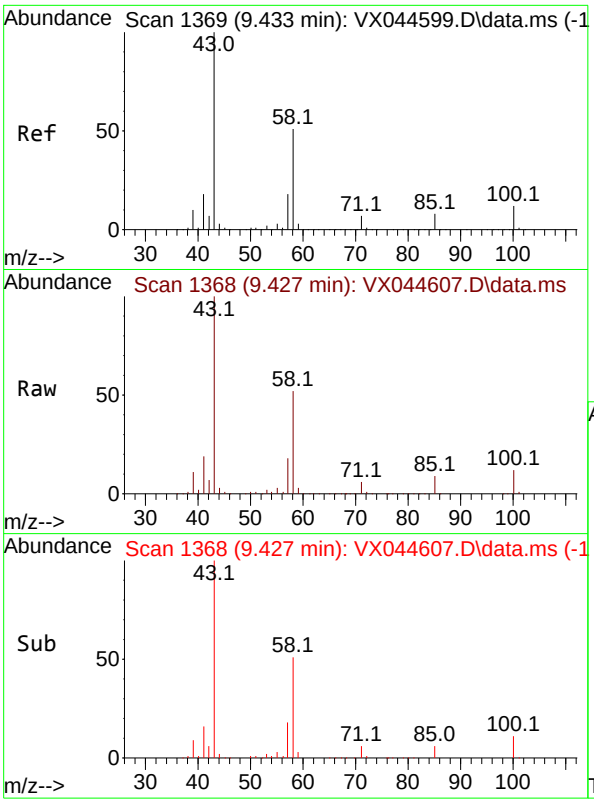


#58
2-Chloroethyl Vinyl ether
Concen: 98.074 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 63 Resp: 140437

Ion	Ratio	Lower	Upper
63	100		
106	28.1	22.4	33.6



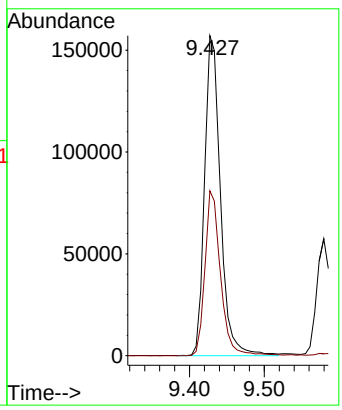


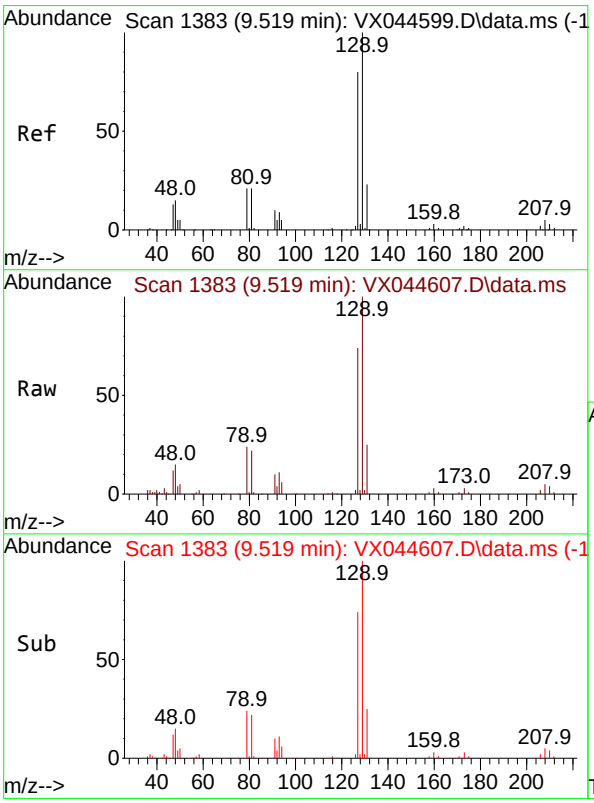
#59
2-Hexanone
Concen: 124.510 ug/l
RT: 9.427 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Tgt Ion: 43 Resp: 231665

Ion	Ratio	Lower	Upper
43	100		
58	50.6	25.4	76.4

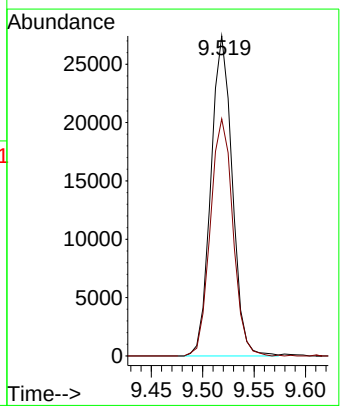


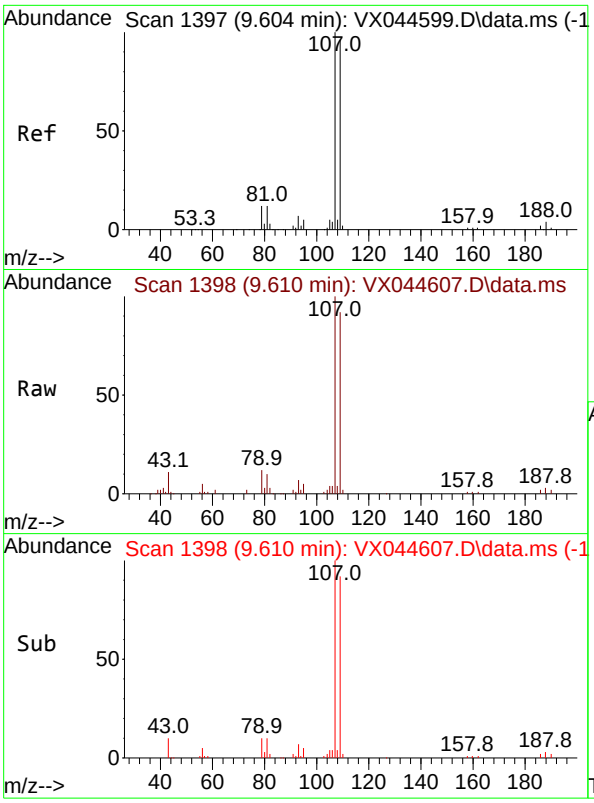


#60
Dibromochloromethane
Concen: 20.011 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion:129 Resp: 39629

Ion	Ratio	Lower	Upper
129	100		
127	78.2	38.9	116.7



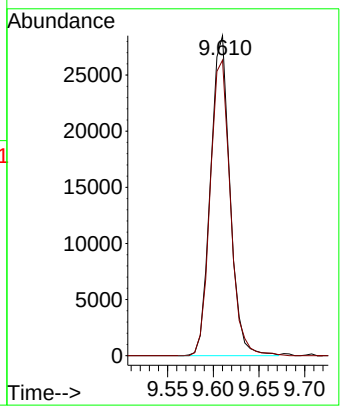


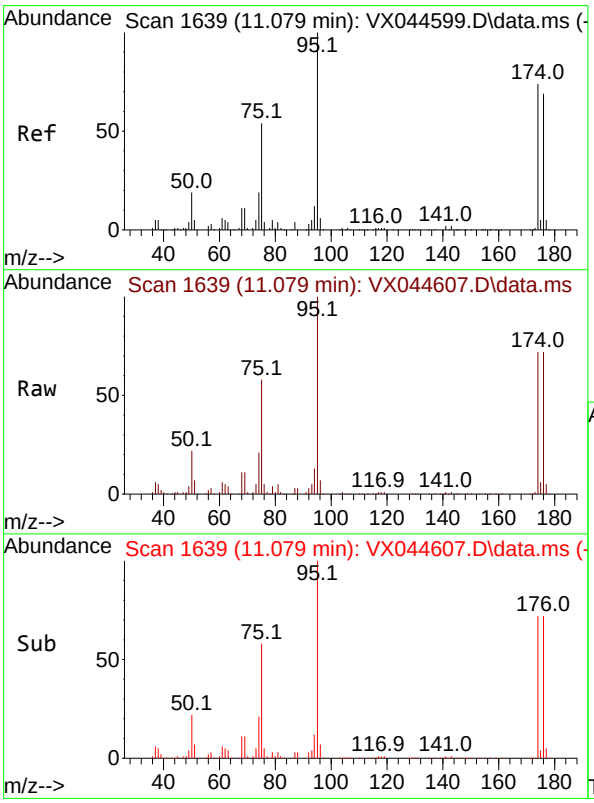
#61
1,2-Dibromoethane
Concen: 21.003 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Tgt Ion:107 Resp: 42130

Ion	Ratio	Lower	Upper
107	100		
109	95.9	76.7	115.1

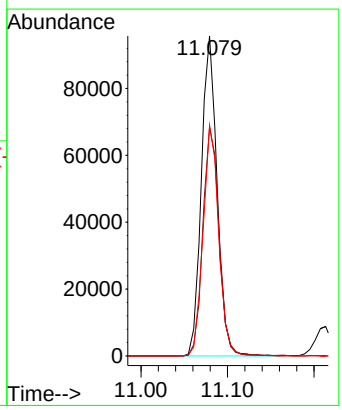


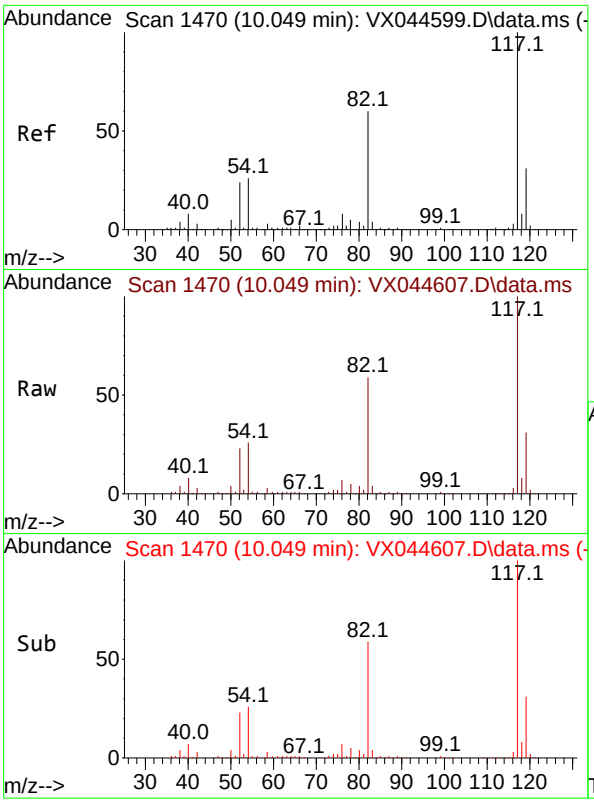


#62
4-Bromofluorobenzene
Concen: 48.375 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 95 Resp: 120282

Ion	Ratio	Lower	Upper
95	100		
174	73.9	0.0	148.8
176	71.8	0.0	139.8



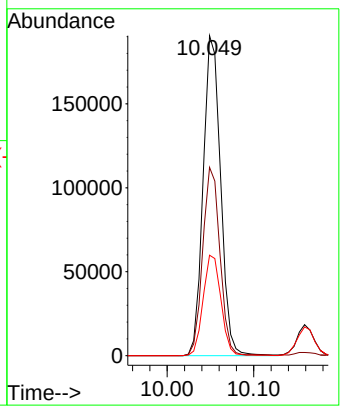


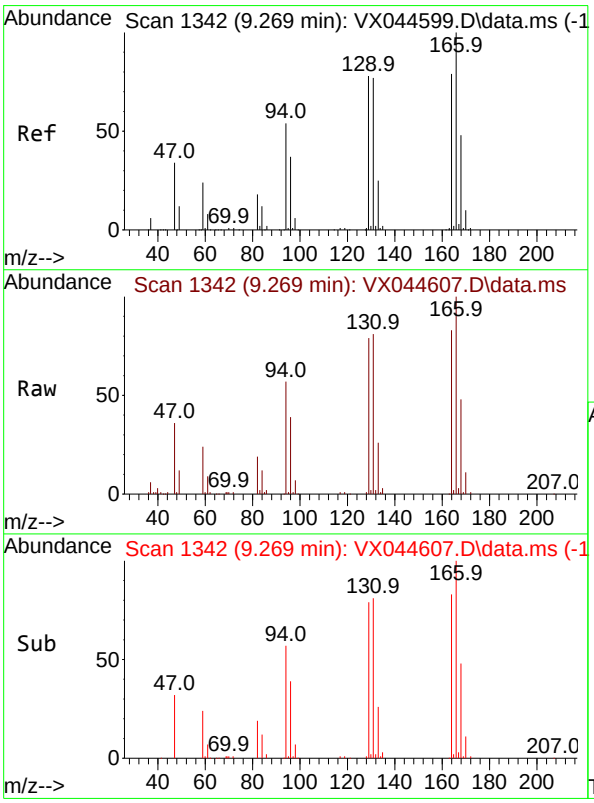
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Tgt Ion:117 Resp: 266797

Ion	Ratio	Lower	Upper
117	100		
82	58.9	47.8	71.6
119	31.4	25.0	37.6

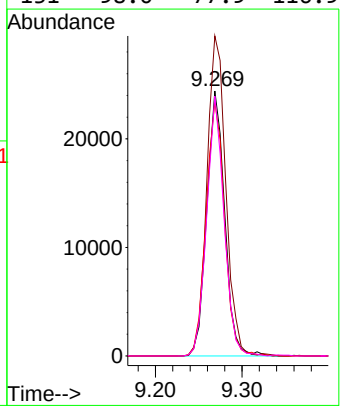


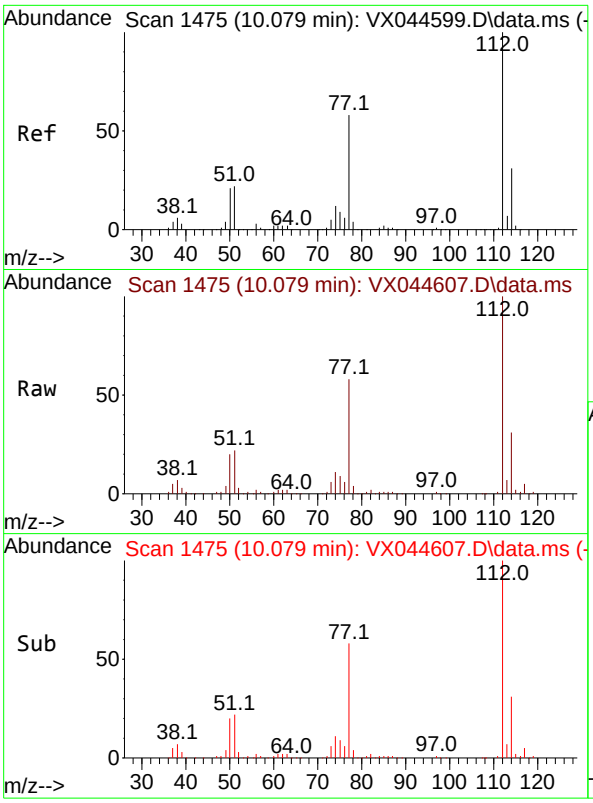


#64
Tetrachloroethene
Concen: 18.640 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion:164 Resp: 35162

Ion	Ratio	Lower	Upper
164	100		
166	120.7	101.5	152.3
129	95.7	78.9	118.3
131	98.0	77.9	116.9



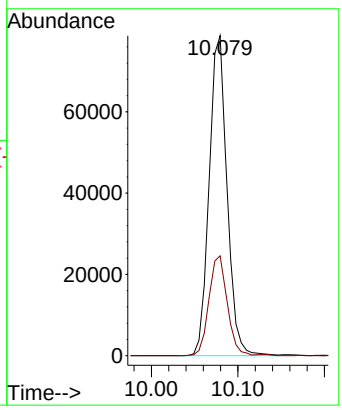


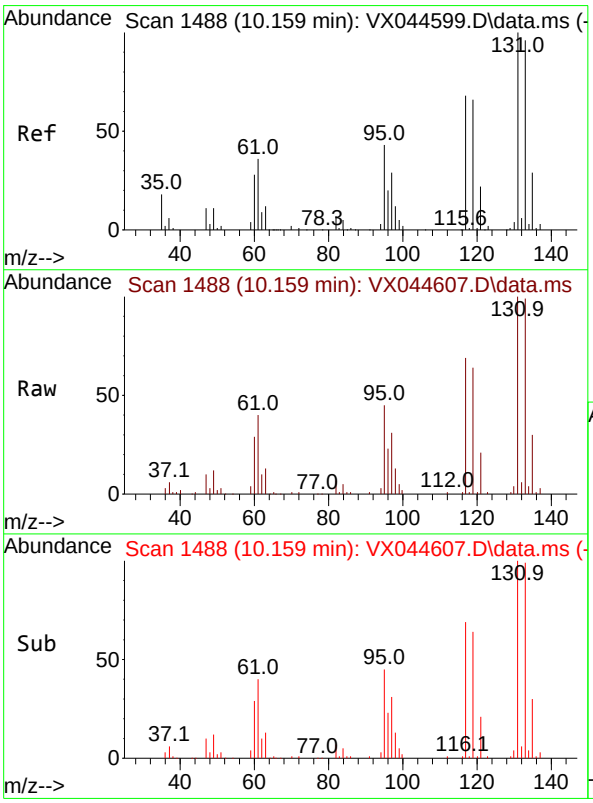
#65
Chlorobenzene
Concen: 19.923 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Tgt Ion:112 Resp: 112810

Ion	Ratio	Lower	Upper
112	100		
114	31.2	25.0	37.4

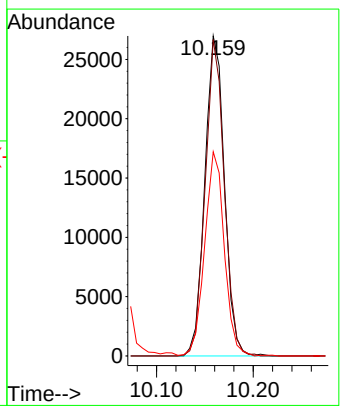


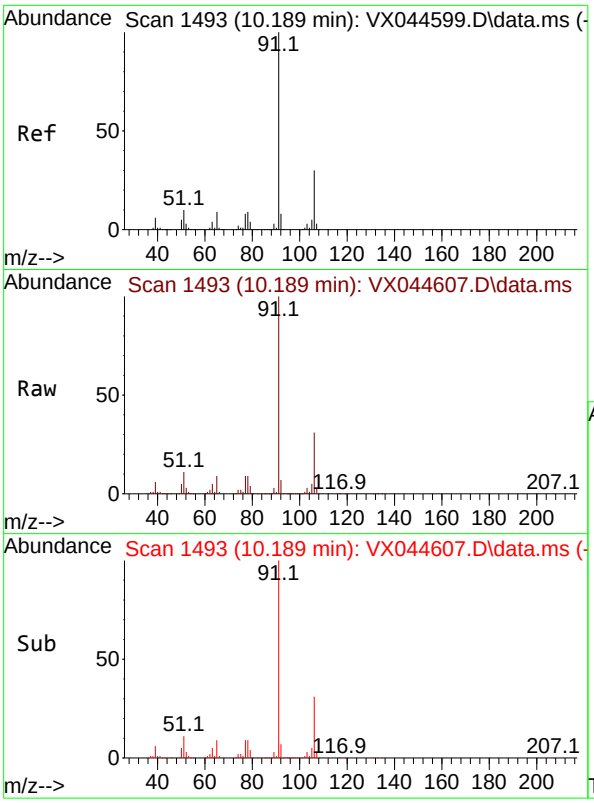


#66
1,1,1,2-Tetrachloroethane
Concen: 20.195 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion:131 Resp: 37980

Ion	Ratio	Lower	Upper
131	100		
133	96.1	48.0	144.0
119	63.4	32.8	98.4



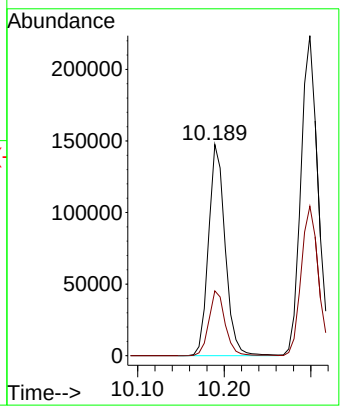


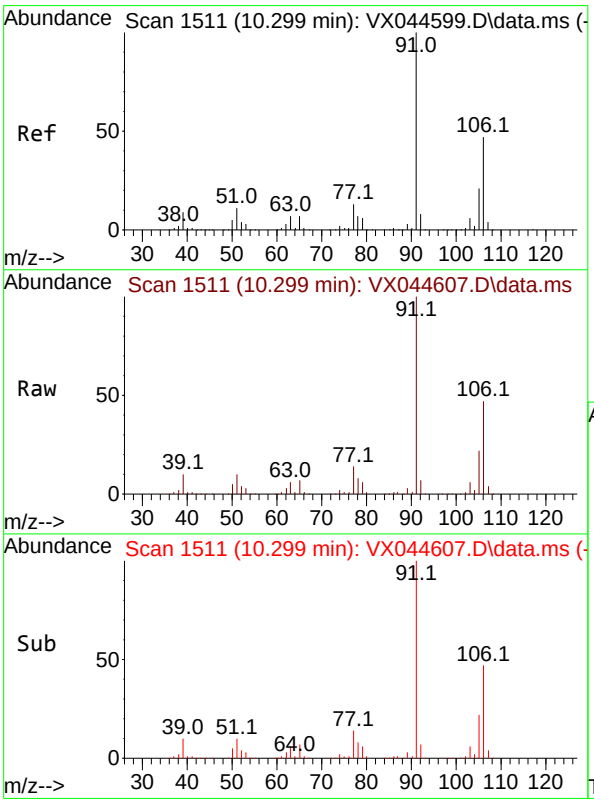
#67
Ethyl Benzene
Concen: 20.227 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Tgt Ion: 91 Resp: 196678

Ion	Ratio	Lower	Upper
91	100		
106	30.7	23.8	35.8

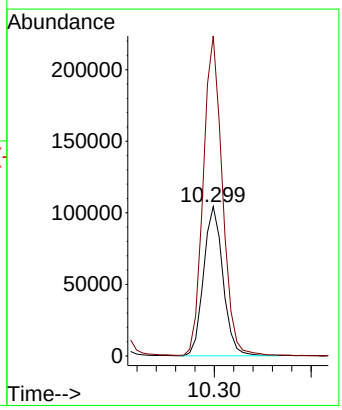


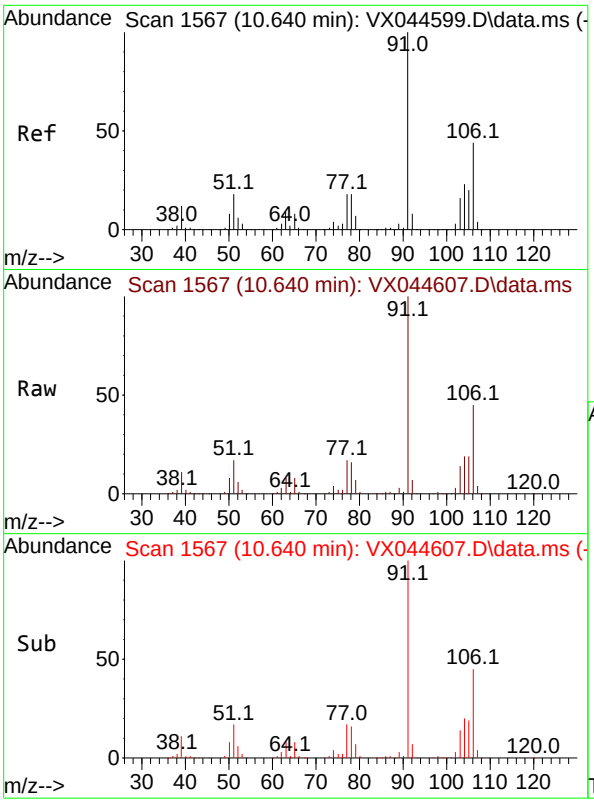


#68
m/p-Xylenes
Concen: 40.757 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion:106 Resp: 145628

Ion	Ratio	Lower	Upper
106	100		
91	212.5	170.4	255.6



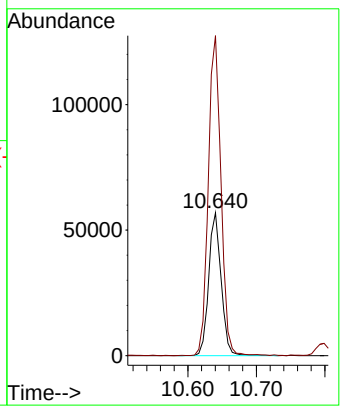


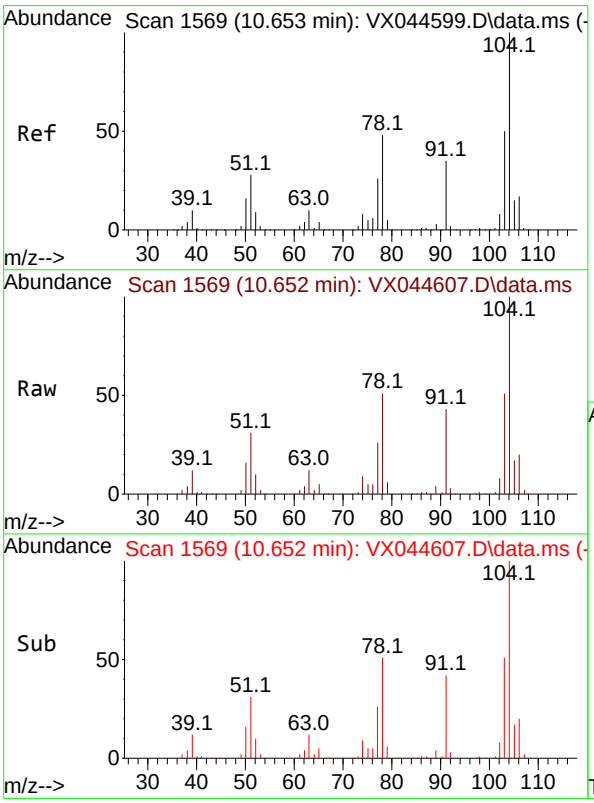
#69
o-Xylene
Concen: 19.981 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Tgt Ion:106 Resp: 72061

Ion	Ratio	Lower	Upper
106	100		
91	228.2	112.3	336.8

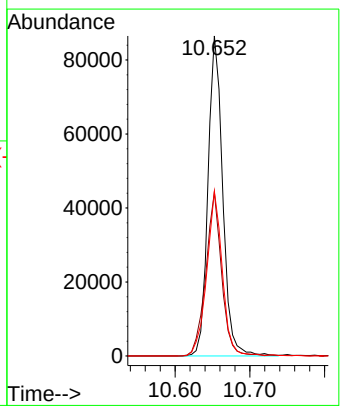


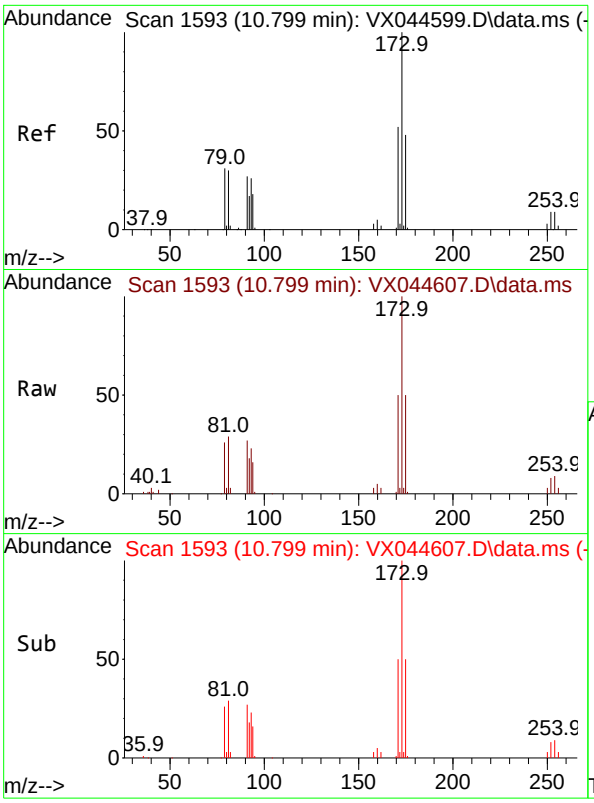


#70
Styrene
Concen: 20.510 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion:104 Resp: 118313

Ion	Ratio	Lower	Upper
104	100		
78	55.2	44.0	66.0
103	54.6	43.8	65.6



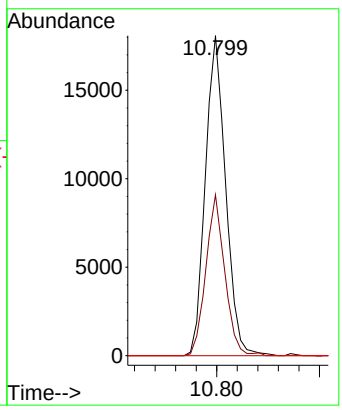


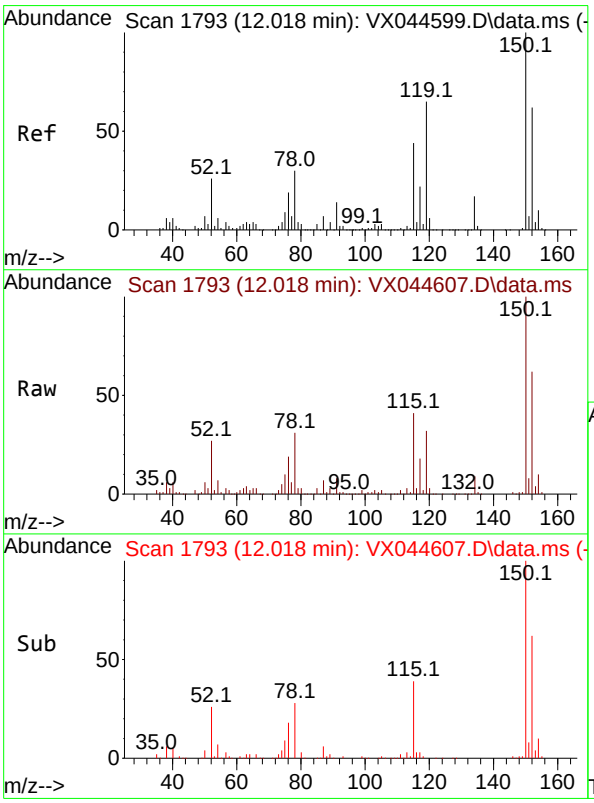
#71
Bromoform
Concen: 20.205 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Tgt Ion:173 Resp: 24761

Ion	Ratio	Lower	Upper
173	100		
175	47.0	24.6	73.8
254	0.0	0.0	0.0

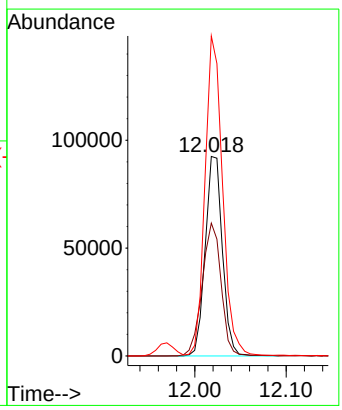


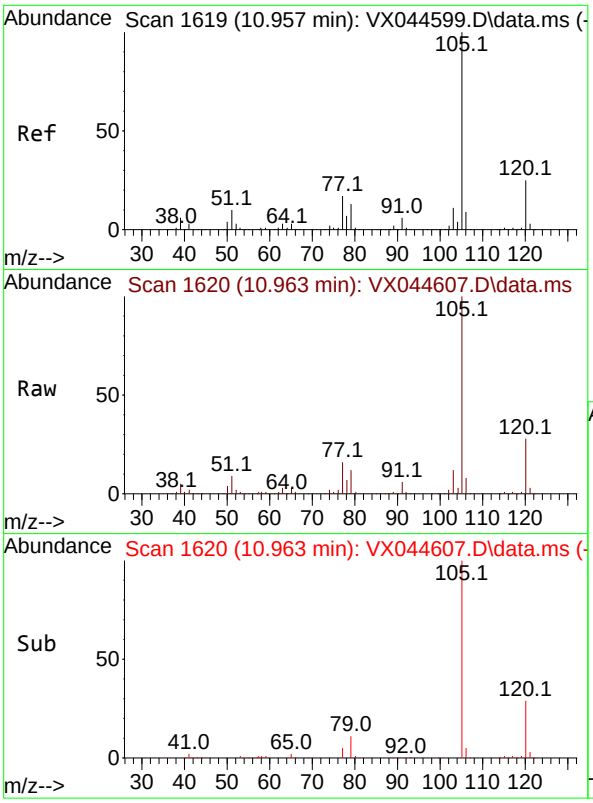


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion:152 Resp: 120544

Ion	Ratio	Lower	Upper
152	100		
115	73.3	44.4	133.1
150	162.5	0.0	355.0



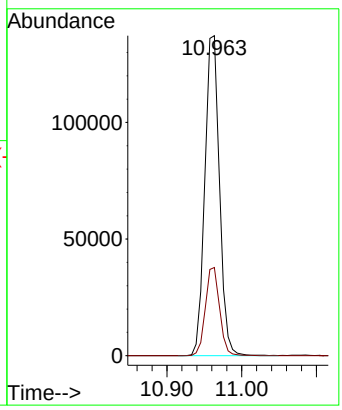


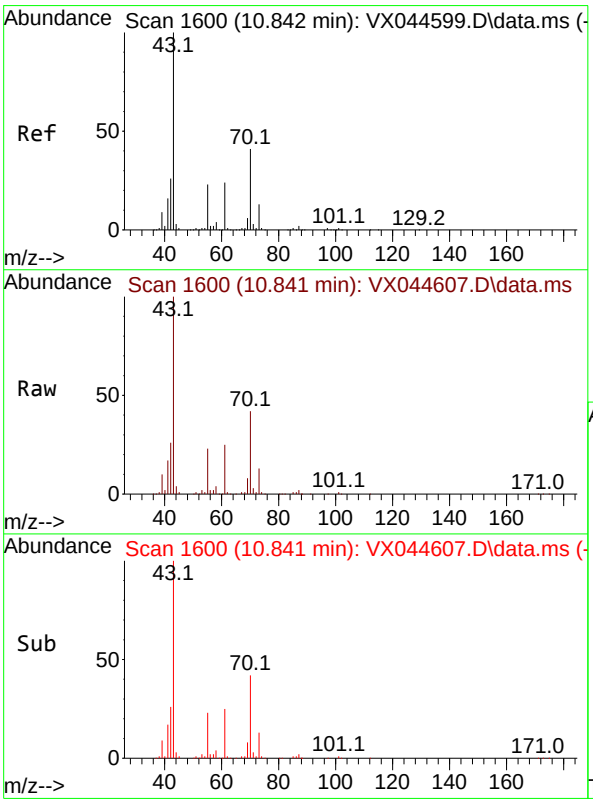
#73
Isopropylbenzene
Concen: 20.891 ug/l
RT: 10.963 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Tgt Ion:105 Resp: 186576

Ion	Ratio	Lower	Upper
105	100		
120	26.8	13.0	38.9

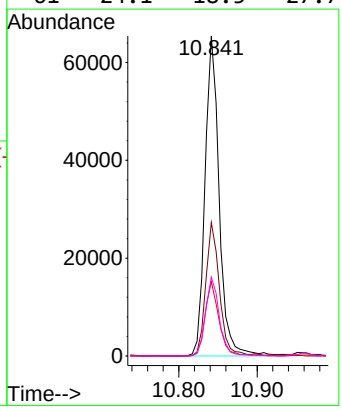


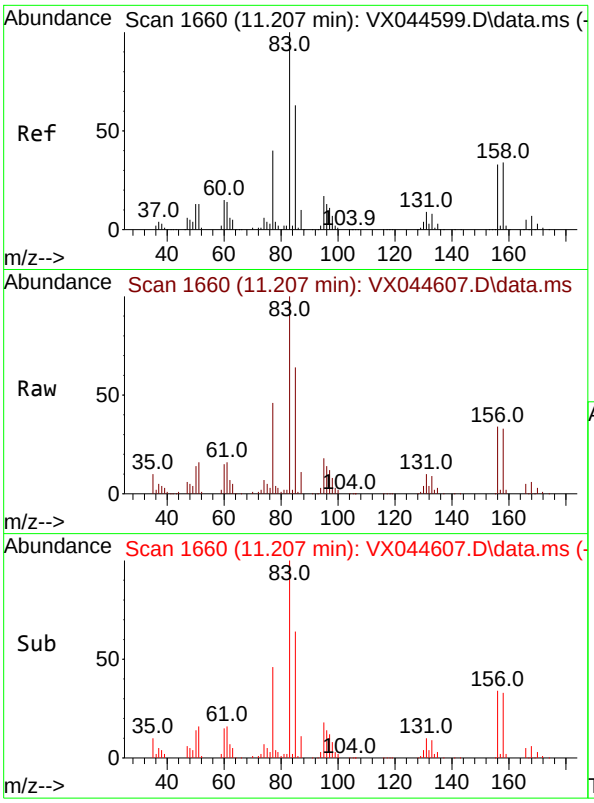


#74
N-amyl acetate
Concen: 22.625 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 43 Resp: 81987

Ion	Ratio	Lower	Upper
43	100		
70	40.1	32.9	49.3
55	22.7	19.0	28.6
61	24.1	18.5	27.7



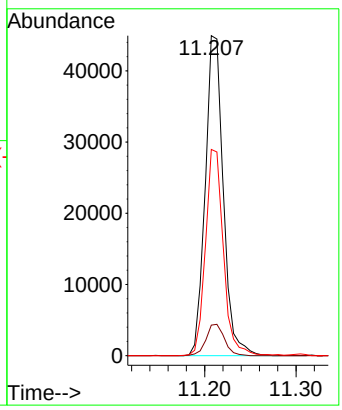


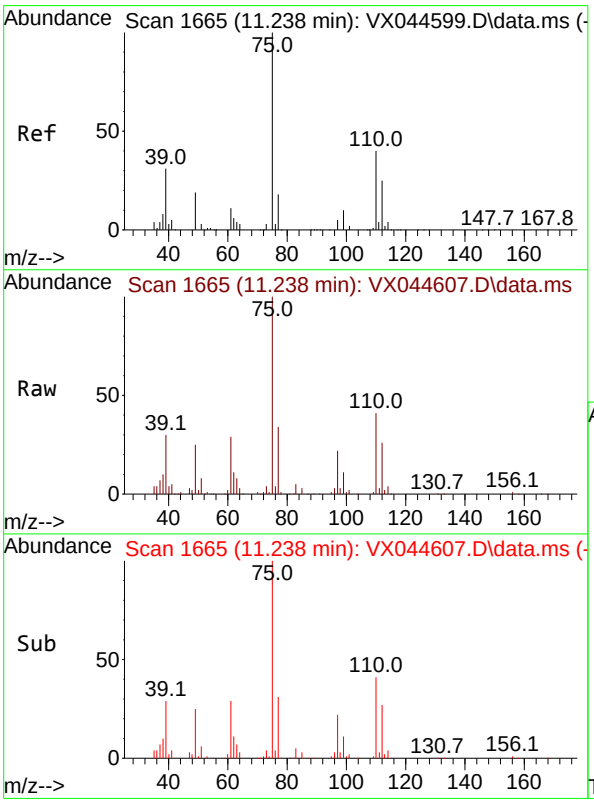
#75
1,1,2,2-Tetrachloroethane
Concen: 21.403 ug/l
RT: 11.207 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Tgt Ion: 83 Resp: 61611

Ion	Ratio	Lower	Upper
83	100		
131	10.0	5.0	15.0
85	64.0	31.9	95.5

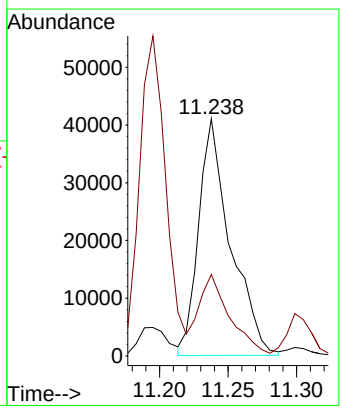


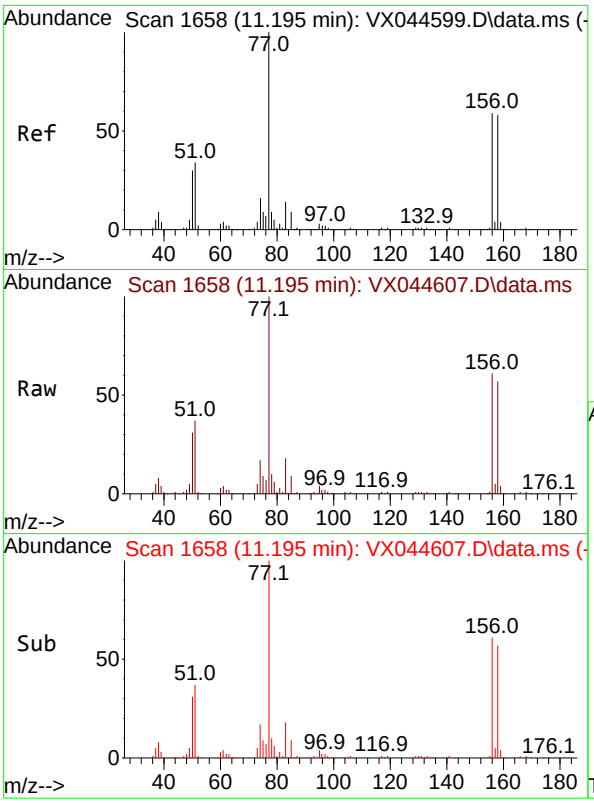


#76
1,2,3-Trichloropropane
Concen: 27.479 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 75 Resp: 66400

Ion	Ratio	Lower	Upper
75	100		
77	33.8	21.1	63.1



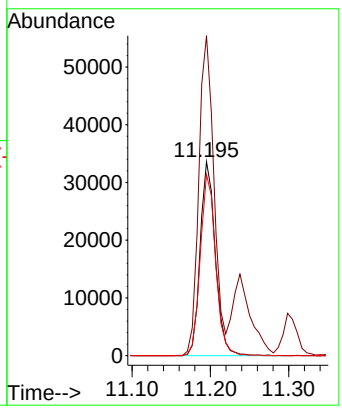


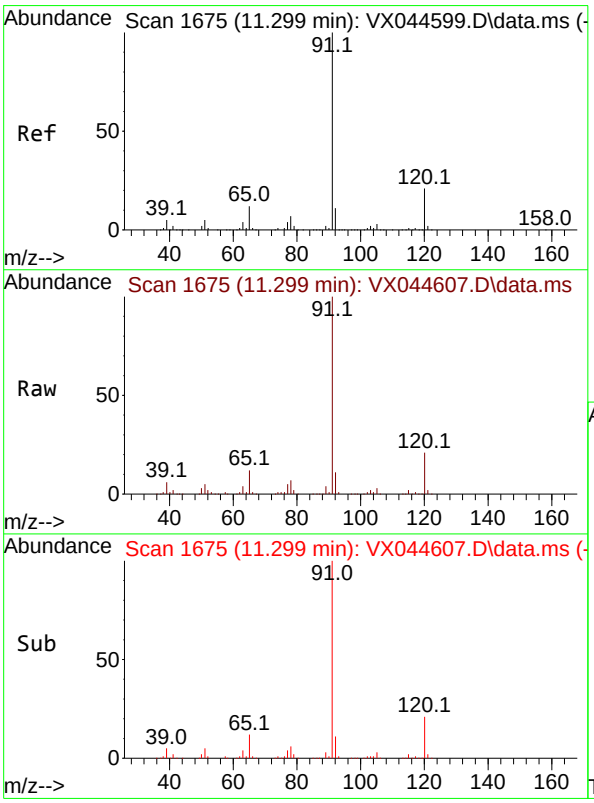
#77
Bromobenzene
Concen: 20.829 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Tgt Ion:156 Resp: 45188

Ion	Ratio	Lower	Upper
156	100		
77	164.9	85.7	257.1
158	94.3	49.9	149.6

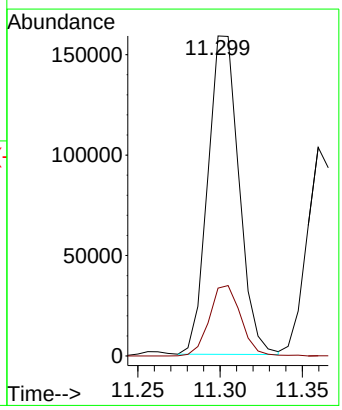


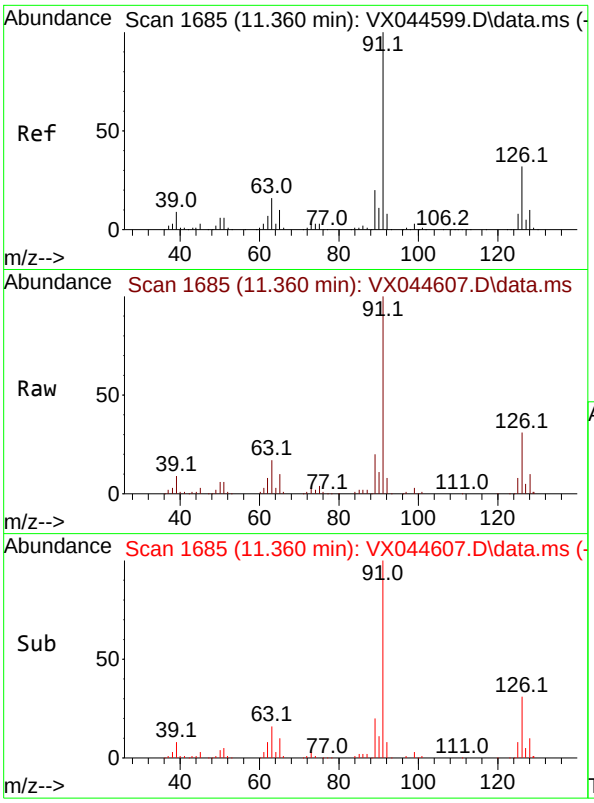


#78
n-propylbenzene
Concen: 20.743 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 91 Resp: 208661

Ion	Ratio	Lower	Upper
91	100		
120	22.4	11.2	33.5



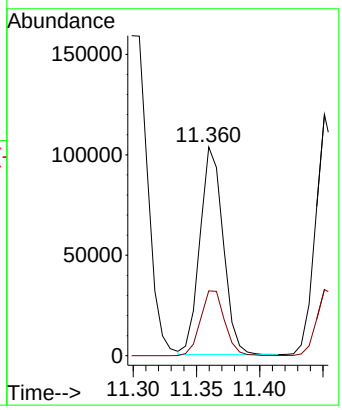


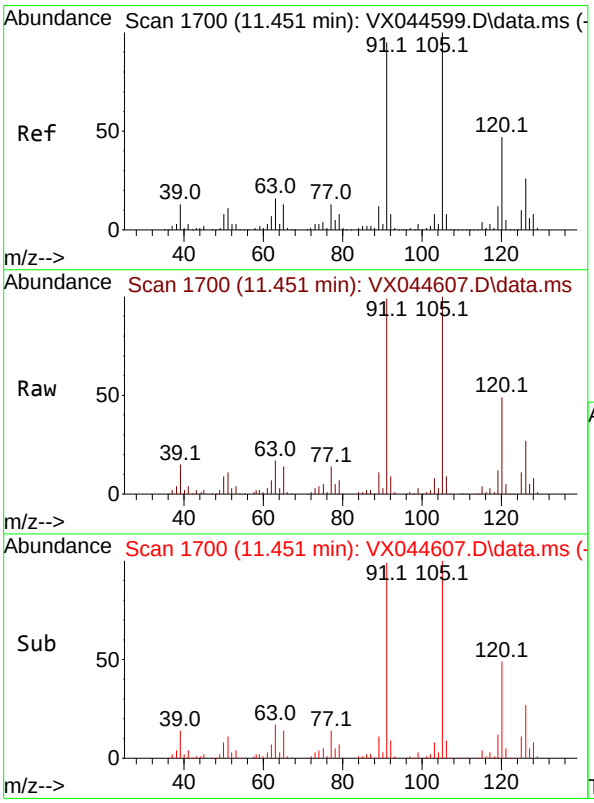
#79
2-Chlorotoluene
Concen: 20.292 ug/l
RT: 11.360 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Tgt Ion: 91 Resp: 132275

Ion	Ratio	Lower	Upper
91	100		
126	32.5	16.4	49.2

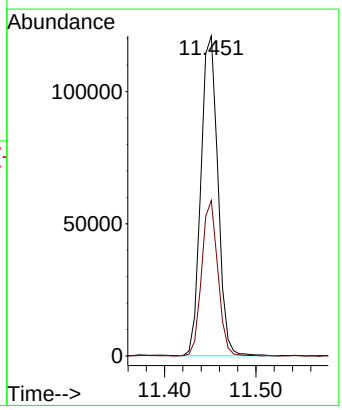


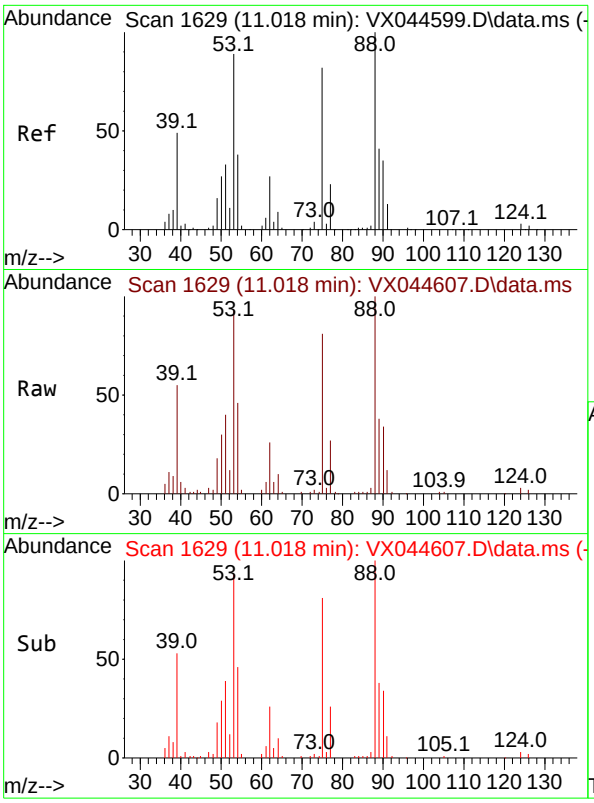


#80
1,3,5-Trimethylbenzene
Concen: 21.003 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion:105 Resp: 155524

Ion	Ratio	Lower	Upper
105	100		
120	46.4	23.5	70.5



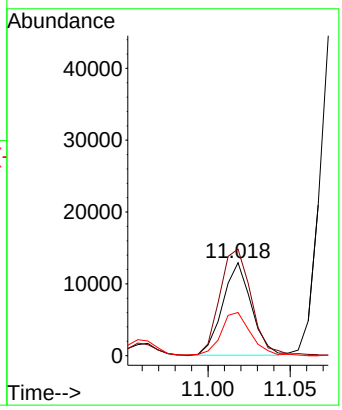


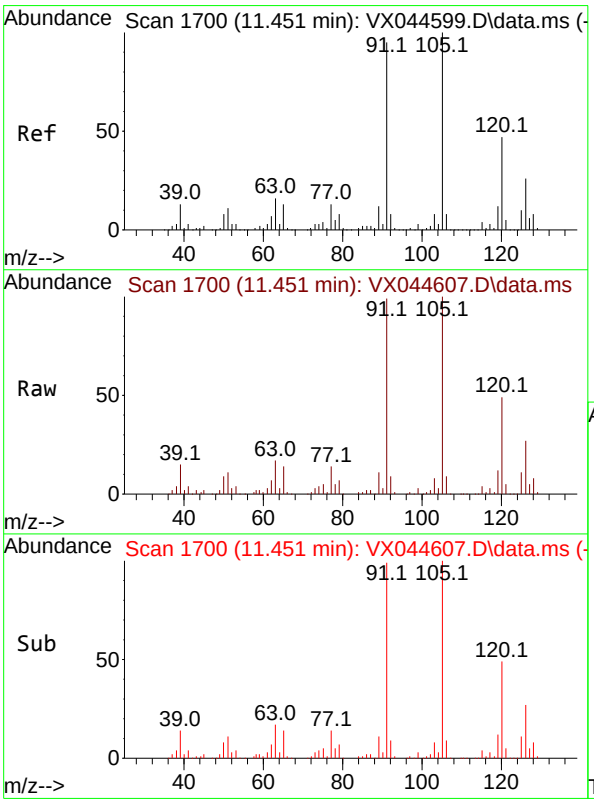
#81
trans-1,4-Dichloro-2-butene
Concen: 19.789 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Tgt Ion: 75 Resp: 15709

Ion	Ratio	Lower	Upper
75	100		
53	127.1	92.7	139.1
89	48.9	38.3	57.5

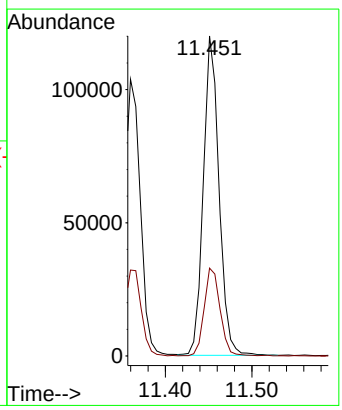


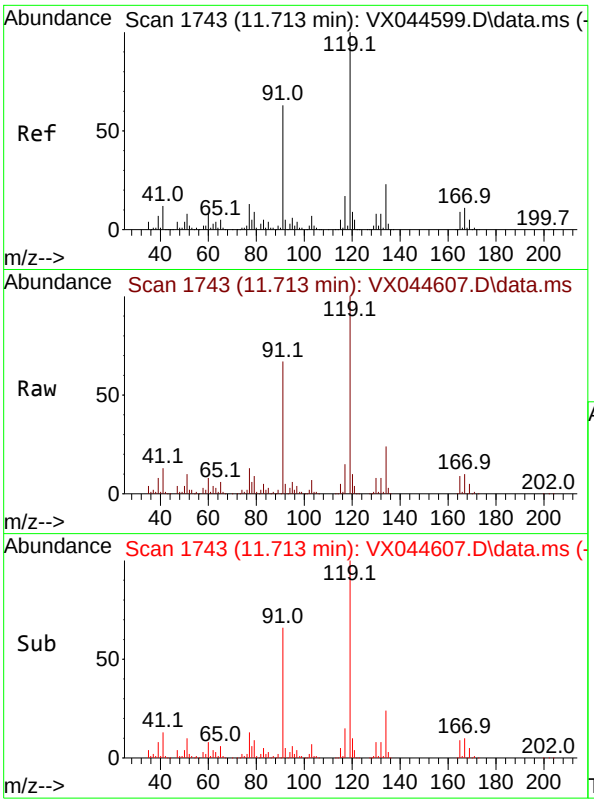


#82
4-Chlorotoluene
Concen: 20.576 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 91 Resp: 150886

Ion	Ratio	Lower	Upper
91	100		
126	28.1	14.0	42.0



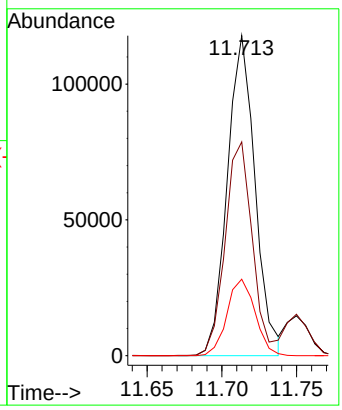


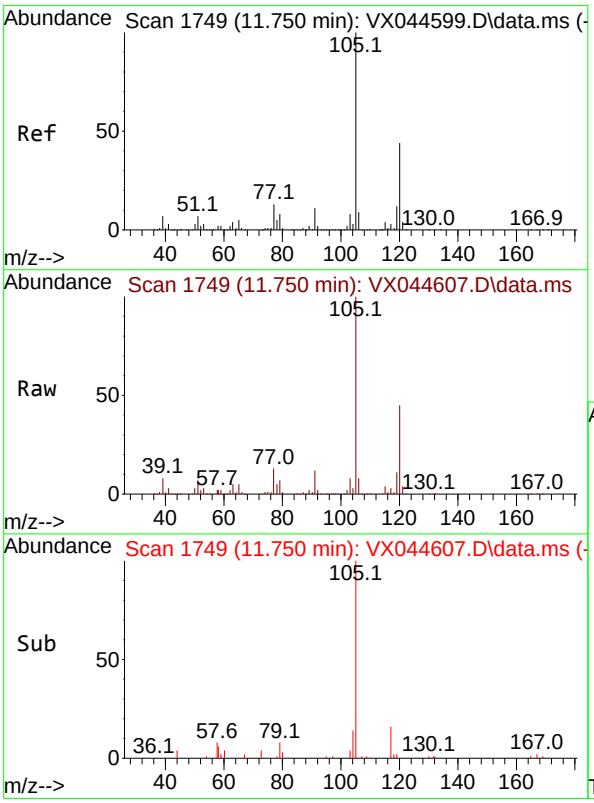
#83
tert-Butylbenzene
Concen: 20.617 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Tgt Ion:119 Resp: 152010

Ion	Ratio	Lower	Upper
119	100		
91	64.9	30.9	92.8
134	24.2	11.7	35.0

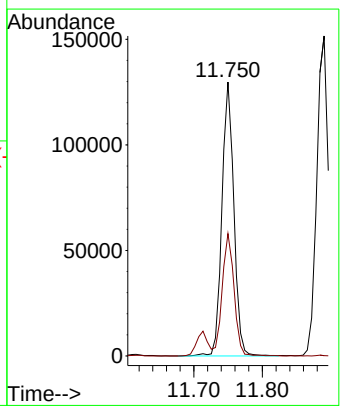


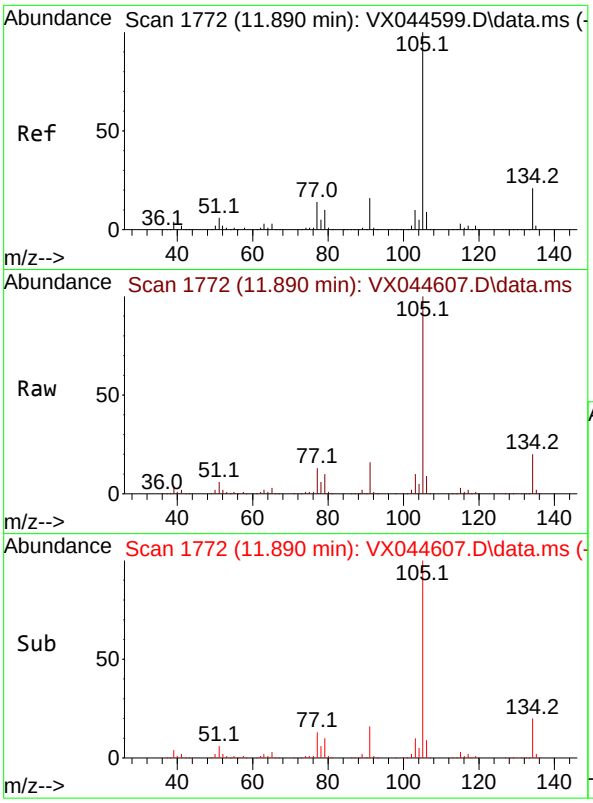


#84
1,2,4-Trimethylbenzene
Concen: 20.973 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion:105 Resp: 156006

Ion	Ratio	Lower	Upper
105	100		
120	44.4	21.9	65.7



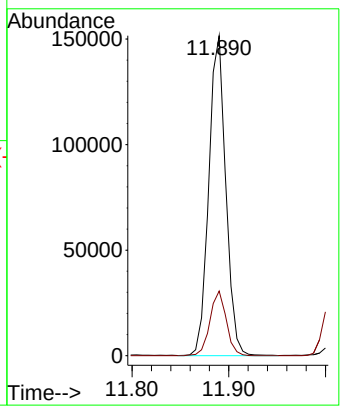


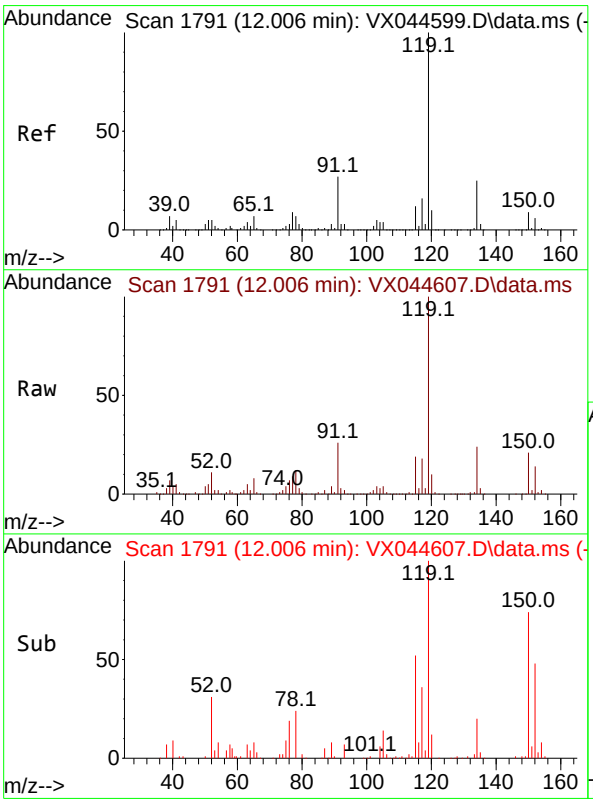
#85
sec-Butylbenzene
Concen: 20.617 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Tgt Ion:105 Resp: 185130

Ion	Ratio	Lower	Upper
105	100		
134	19.4	9.9	29.7

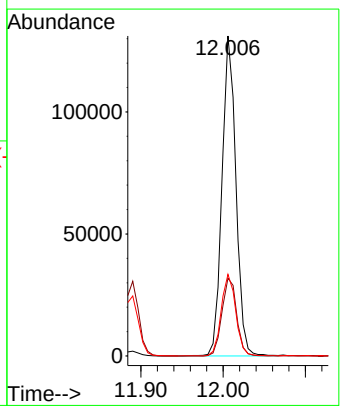


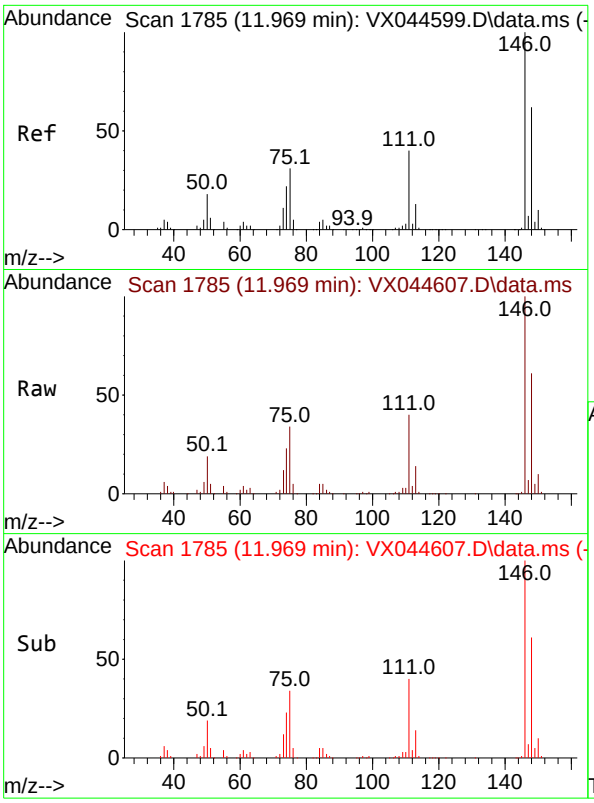


#86
p-Isopropyltoluene
Concen: 20.469 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion:119 Resp: 154223

Ion	Ratio	Lower	Upper
119	100		
134	25.8	12.6	37.8
91	26.4	13.1	39.1



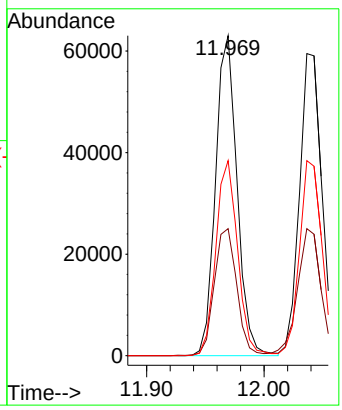


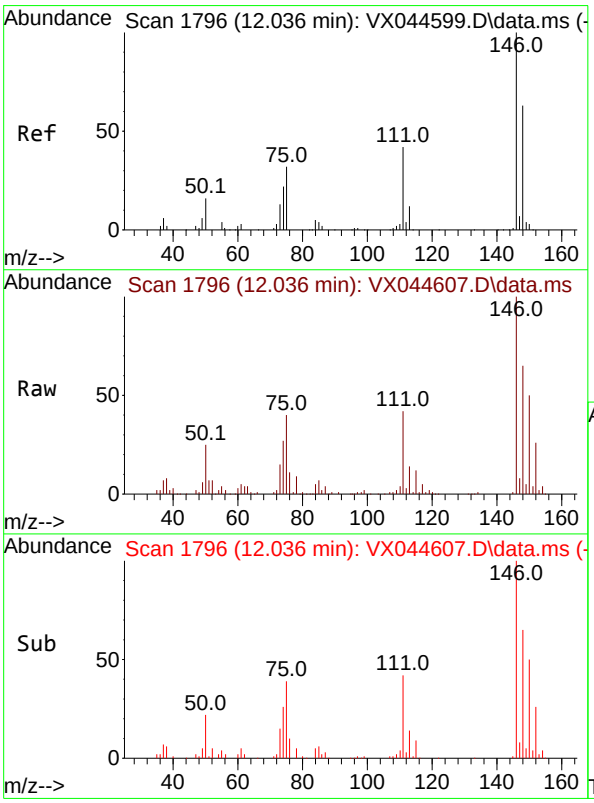
#87
1,3-Dichlorobenzene
Concen: 20.502 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Tgt Ion:146 Resp: 80463

Ion	Ratio	Lower	Upper
146	100		
111	41.5	21.0	63.0
148	61.8	31.6	95.0

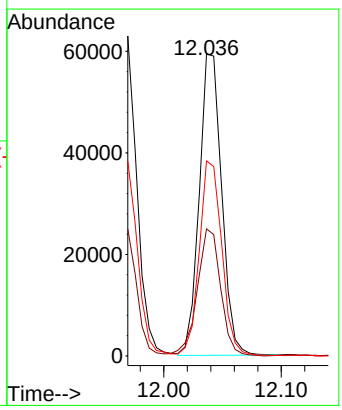


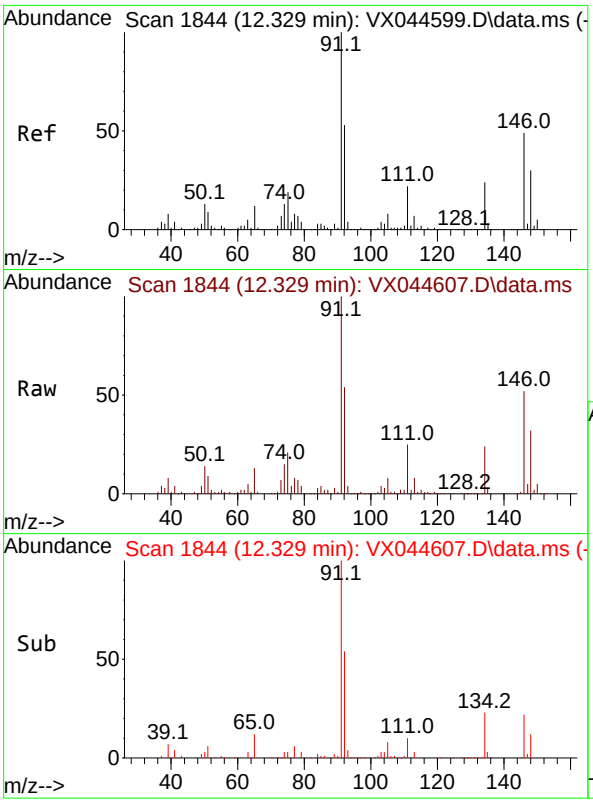


#88
1,4-Dichlorobenzene
Concen: 19.258 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion:146 Resp: 78747

Ion	Ratio	Lower	Upper
146	100		
111	44.2	20.7	62.1
148	64.9	31.8	95.4



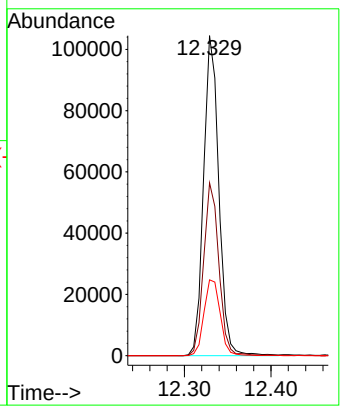


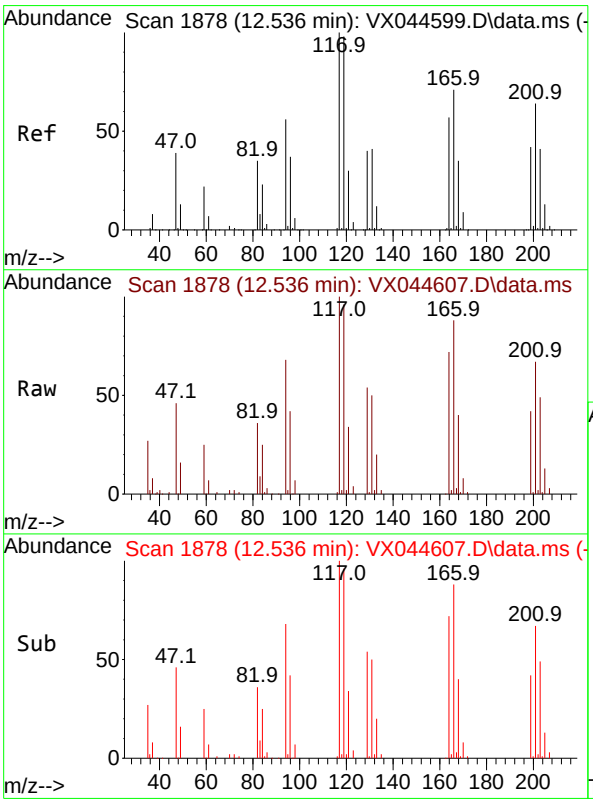
#89
n-Butylbenzene
Concen: 20.082 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Tgt Ion: 91 Resp: 127763

Ion	Ratio	Lower	Upper
91	100		
92	53.9	26.5	79.4
134	25.2	12.4	37.2

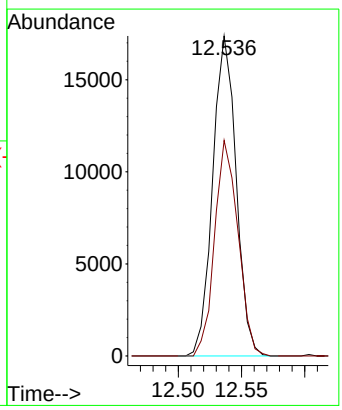


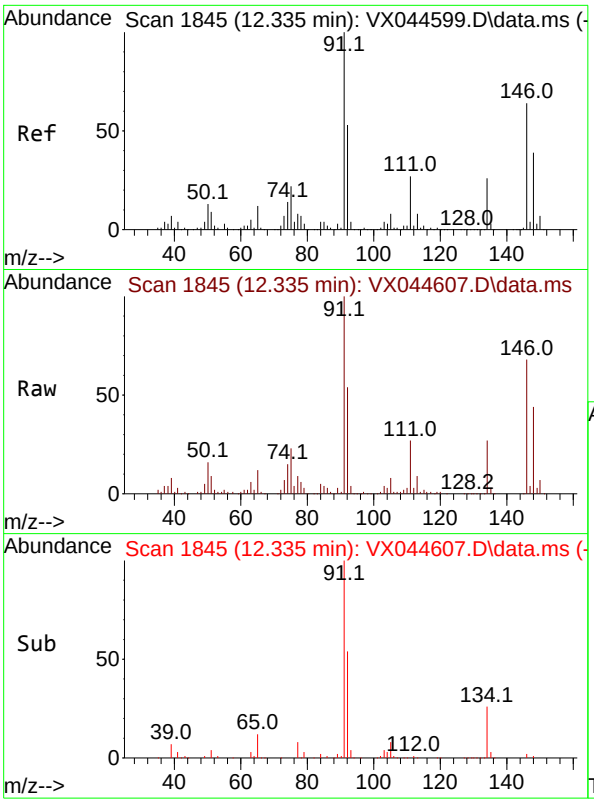


#90
Hexachloroethane
Concen: 18.501 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion:117 Resp: 22393

Ion	Ratio	Lower	Upper
117	100		
201	67.2	33.6	100.6



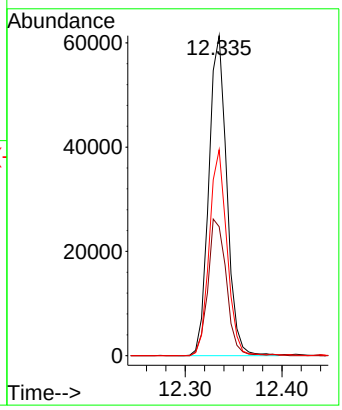


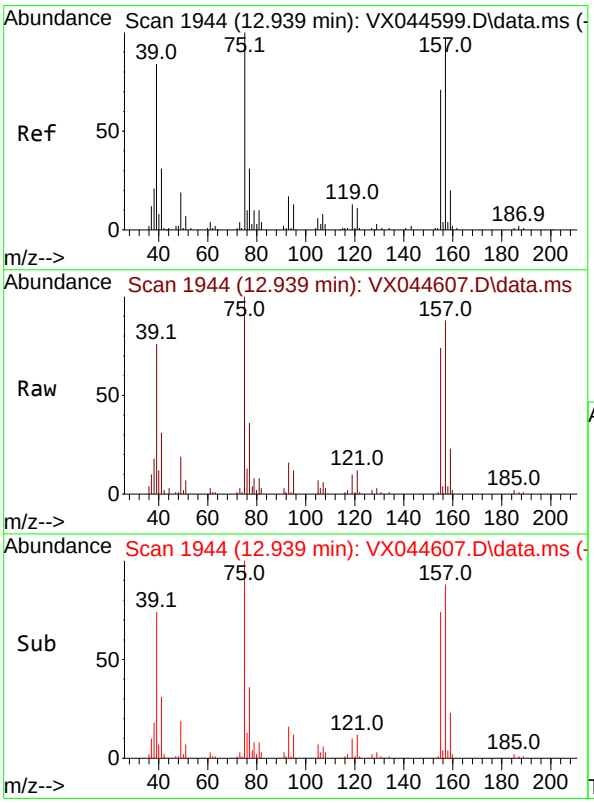
#91
1,2-Dichlorobenzene
Concen: 20.054 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Tgt Ion:146 Resp: 79533

Ion	Ratio	Lower	Upper
146	100		
111	44.0	21.8	65.4
148	63.0	31.1	93.3

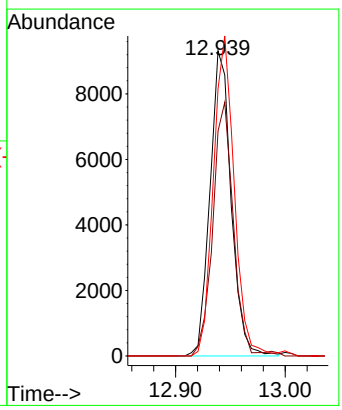


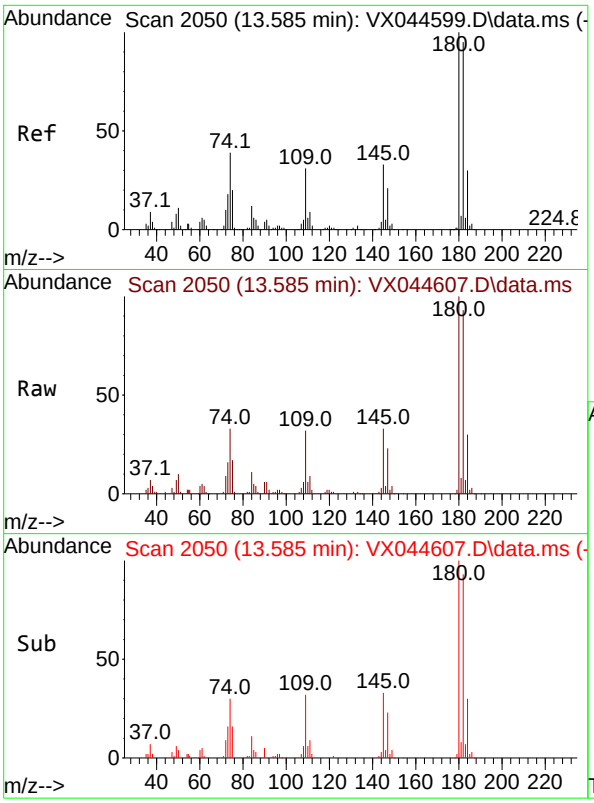


#92
1,2-Dibromo-3-Chloropropane
Concen: 22.920 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion: 75 Resp: 12508

Ion	Ratio	Lower	Upper
75	100		
155	79.7	37.4	112.1
157	103.1	48.0	144.2



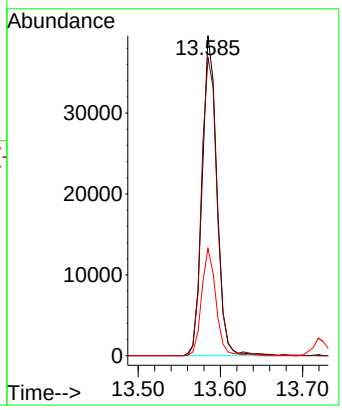


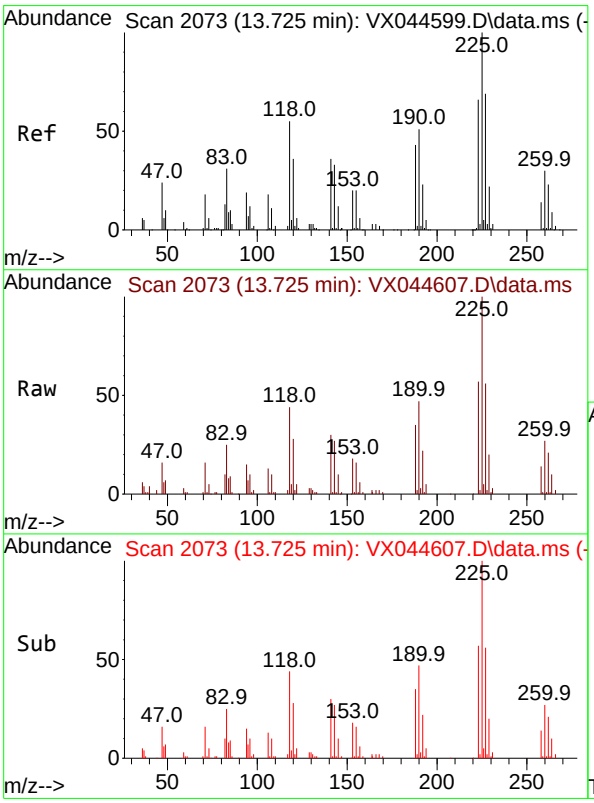
#93
1,2,4-Trichlorobenzene
Concen: 21.056 ug/l
RT: 13.585 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Tgt Ion:180 Resp: 49080

Ion	Ratio	Lower	Upper
180	100		
182	98.2	47.9	143.6
145	32.7	16.3	48.9

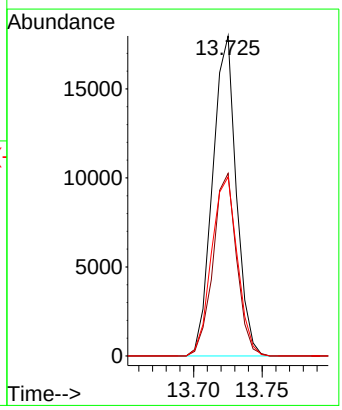


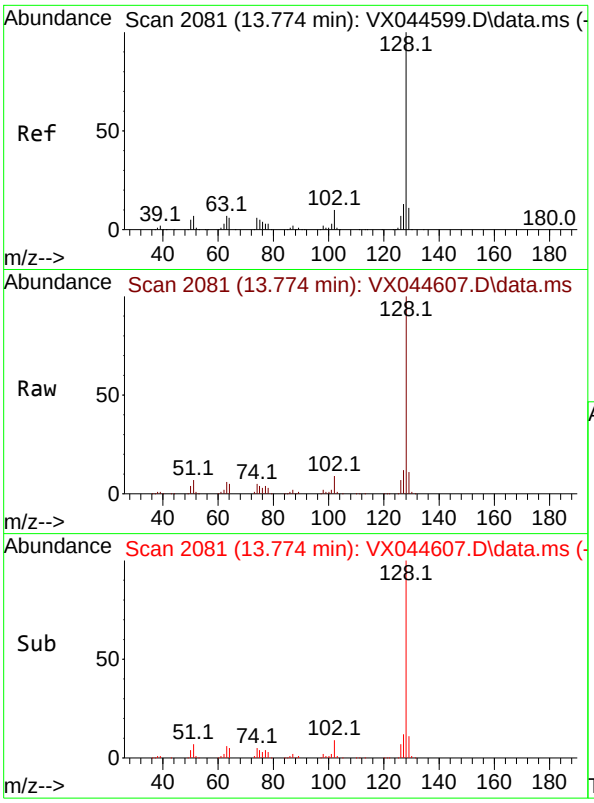


#94
Hexachlorobutadiene
Concen: 22.220 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion:225 Resp: 21566

Ion	Ratio	Lower	Upper
225	100		
223	56.9	31.6	94.8
227	60.9	31.9	95.9



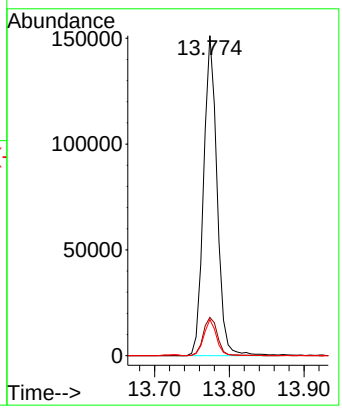


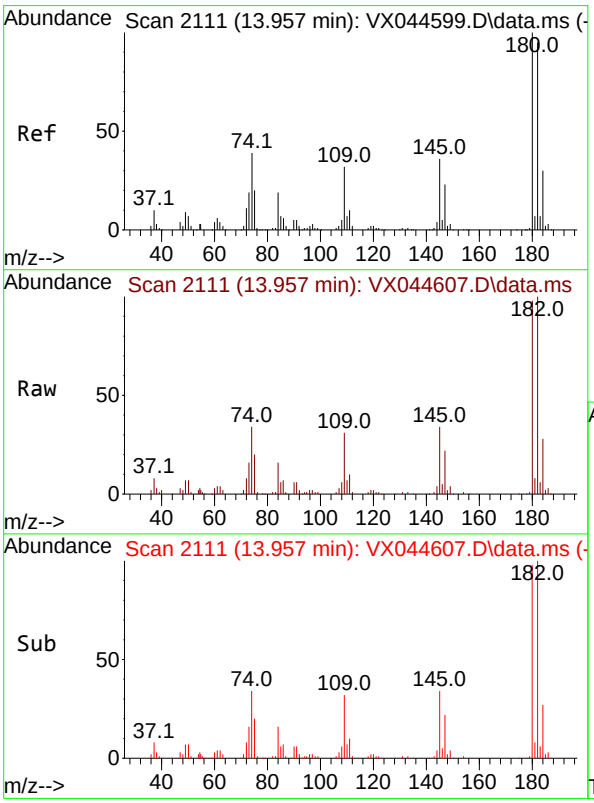
#95
Naphthalene
Concen: 25.147 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Instrument :
MSVOA_X
ClientSampleId :
VX0107WBSD02

Tgt Ion:128 Resp: 189125

Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.5	15.7
129	10.8	8.6	13.0

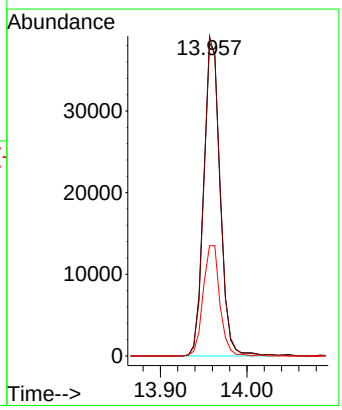




#96
1,2,3-Trichlorobenzene
Concen: 21.319 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VX044607.D
Acq: 07 Jan 2025 17:19

Tgt Ion:180 Resp: 50797

Ion	Ratio	Lower	Upper
180	100		
182	100.1	47.6	142.9
145	35.6	17.6	52.9



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044613.D
Acq On : 07 Jan 2025 19:37
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Jan 09 03:35:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 03:57:12 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	168032	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	295835	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	253685	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	118886	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	151564	55.942	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 111.880%			
35) Dibromofluoromethane	5.379	113	105618	52.065	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.120%			
50) Toluene-d8	8.647	98	360090	51.967	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 103.940%			
62) 4-Bromofluorobenzene	11.079	95	128195	52.415	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 104.840%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	134539	55.337	ug/l	98
3) Chloromethane	1.295	50	128841	53.178	ug/l	96
4) Vinyl Chloride	1.374	62	123309	54.253	ug/l	99
5) Bromomethane	1.593	94	62546	53.125	ug/l	98
6) Chloroethane	1.666	64	64752	49.799	ug/l	94
7) Trichlorofluoromethane	1.874	101	185599	54.842	ug/l	98
8) Diethyl Ether	2.136	74	67148	56.153	ug/l	90
9) 1,1,2-Trichlorotrifluo...	2.319	101	100212	51.646	ug/l	99
10) Methyl Iodide	2.447	142	140962	52.097	ug/l	99
11) Tert butyl alcohol	2.995	59	98297	294.641	ug/l	97
12) 1,1-Dichloroethene	2.313	96	95617	50.866	ug/l	96
13) Acrolein	2.233	56	134997	306.047	ug/l	100
14) Allyl chloride	2.660	41	170117	54.415	ug/l	98
15) Acrylonitrile	3.063	53	269181	280.157	ug/l	99
16) Acetone	2.380	43	246540	288.715	ug/l	100
17) Carbon Disulfide	2.502	76	208698	53.692	ug/l	98
18) Methyl Acetate	2.703	43	140271	55.654	ug/l	99
19) Methyl tert-butyl Ether	3.111	73	353121	54.815	ug/l	99
20) Methylene Chloride	2.782	84	113109	51.920	ug/l	98
21) trans-1,2-Dichloroethene	3.087	96	97667	50.624	ug/l	97
22) Diisopropyl ether	3.757	45	354623	55.179	ug/l	99
23) Vinyl Acetate	3.715	43	1535167	295.397	ug/l	100
24) 1,1-Dichloroethane	3.605	63	199407	53.250	ug/l	99
25) 2-Butanone	4.556	43	370671	300.736	ug/l	96
26) 2,2-Dichloropropane	4.471	77	166708	51.490	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	124483	52.916	ug/l	100
28) Bromochloromethane	4.891	49	87592	50.249	ug/l	97
29) Tetrahydrofuran	5.001	42	241460	286.076	ug/l	99
30) Chloroform	5.087	83	212184	52.559	ug/l	99
31) Cyclohexane	5.458	56	159553	51.894	ug/l	97
32) 1,1,1-Trichloroethane	5.373	97	185991	54.744	ug/l	99
36) 1,1-Dichloropropene	5.684	75	136474	52.027	ug/l	99
37) Ethyl Acetate	4.709	43	153095	57.053	ug/l	99
38) Carbon Tetrachloride	5.672	117	150161	51.595	ug/l	97
39) Methylcyclohexane	7.373	83	166246	49.669	ug/l	98
40) Benzene	6.031	78	419445	50.785	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044613.D
Acq On : 07 Jan 2025 19:37
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Jan 09 03:35:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 03:57:12 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.922	41	87090	60.464	ug/l		95
42) 1,2-Dichloroethane	6.080	62	178223	55.178	ug/l		100
43) Isopropyl Acetate	6.336	43	248008	56.022	ug/l		99
44) Trichloroethene	7.123	130	101890	48.261	ug/l		95
45) 1,2-Dichloropropane	7.421	63	104468	51.880	ug/l		96
46) Dibromomethane	7.574	93	81733	52.190	ug/l		98
47) Bromodichloromethane	7.818	83	156733	54.997	ug/l		98
48) Methyl methacrylate	7.696	41	124321	58.879	ug/l		97
49) 1,4-Dioxane	7.665	88	38760	1249.198	ug/l		97
51) 4-Methyl-2-Pentanone	8.574	43	756374	292.284	ug/l		100
52) Toluene	8.714	92	257402	51.653	ug/l		99
53) t-1,3-Dichloropropene	8.976	75	151224	55.515	ug/l		97
54) cis-1,3-Dichloropropene	8.360	75	164267	53.656	ug/l		97
55) 1,1,2-Trichloroethane	9.147	97	103095	52.771	ug/l		98
56) Ethyl methacrylate	9.116	69	163278	57.469	ug/l		98
57) 1,3-Dichloropropane	9.305	76	175128	53.383	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	391895	278.235	ug/l		100
59) 2-Hexanone	9.427	43	553155	302.247	ug/l		99
60) Dibromochloromethane	9.519	129	107971	55.427	ug/l		99
61) 1,2-Dibromoethane	9.604	107	105825	53.635	ug/l		97
64) Tetrachloroethene	9.269	164	85353	47.587	ug/l		96
65) Chlorobenzene	10.073	112	275873	51.238	ug/l		97
66) 1,1,1,2-Tetrachloroethane	10.159	131	95543	53.429	ug/l		99
67) Ethyl Benzene	10.189	91	494122	53.443	ug/l		100
68) m/p-Xylenes	10.299	106	365584	107.604	ug/l		99
69) o-Xylene	10.640	106	179313	52.289	ug/l		99
70) Styrene	10.653	104	300652	54.813	ug/l		100
71) Bromoform	10.799	173	65460	52.026	ug/l	#	96
73) Isopropylbenzene	10.957	105	463455	52.618	ug/l		99
74) N-amyl acetate	10.842	43	212270	59.395	ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.207	83	151715	53.439	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	164701	69.109	ug/l		84
77) Bromobenzene	11.195	156	111248	51.994	ug/l		98
78) n-propylbenzene	11.305	91	527200	53.141	ug/l		100
79) 2-Chlorotoluene	11.360	91	327328	50.916	ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	389590	53.347	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	43198	55.176	ug/l		98
82) 4-Chlorotoluene	11.451	91	376292	52.030	ug/l		99
83) tert-Butylbenzene	11.713	119	385674	53.037	ug/l		100
84) 1,2,4-Trimethylbenzene	11.750	105	392732	53.535	ug/l		98
85) sec-Butylbenzene	11.890	105	462731	52.250	ug/l		100
86) p-Isopropyltoluene	12.006	119	394724	53.119	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	196937	50.880	ug/l		99
88) 1,4-Dichlorobenzene	12.037	146	196398	48.700	ug/l		99
89) n-Butylbenzene	12.329	91	336155	53.573	ug/l		99
90) Hexachloroethane	12.536	117	60971	51.076	ug/l		98
91) 1,2-Dichlorobenzene	12.335	146	201962	51.635	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	12.939	75	32131	59.698	ug/l		90
93) 1,2,4-Trichlorobenzene	13.585	180	129812	56.469	ug/l		99
94) Hexachlorobutadiene	13.725	225	50956	53.233	ug/l		97
95) Naphthalene	13.774	128	450708	60.764	ug/l		99
96) 1,2,3-Trichlorobenzene	13.957	180	135540	57.677	ug/l		98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044613.D
Acq On : 07 Jan 2025 19:37
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Jan 09 03:35:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 03:57:12 2025
Response via : Initial Calibration

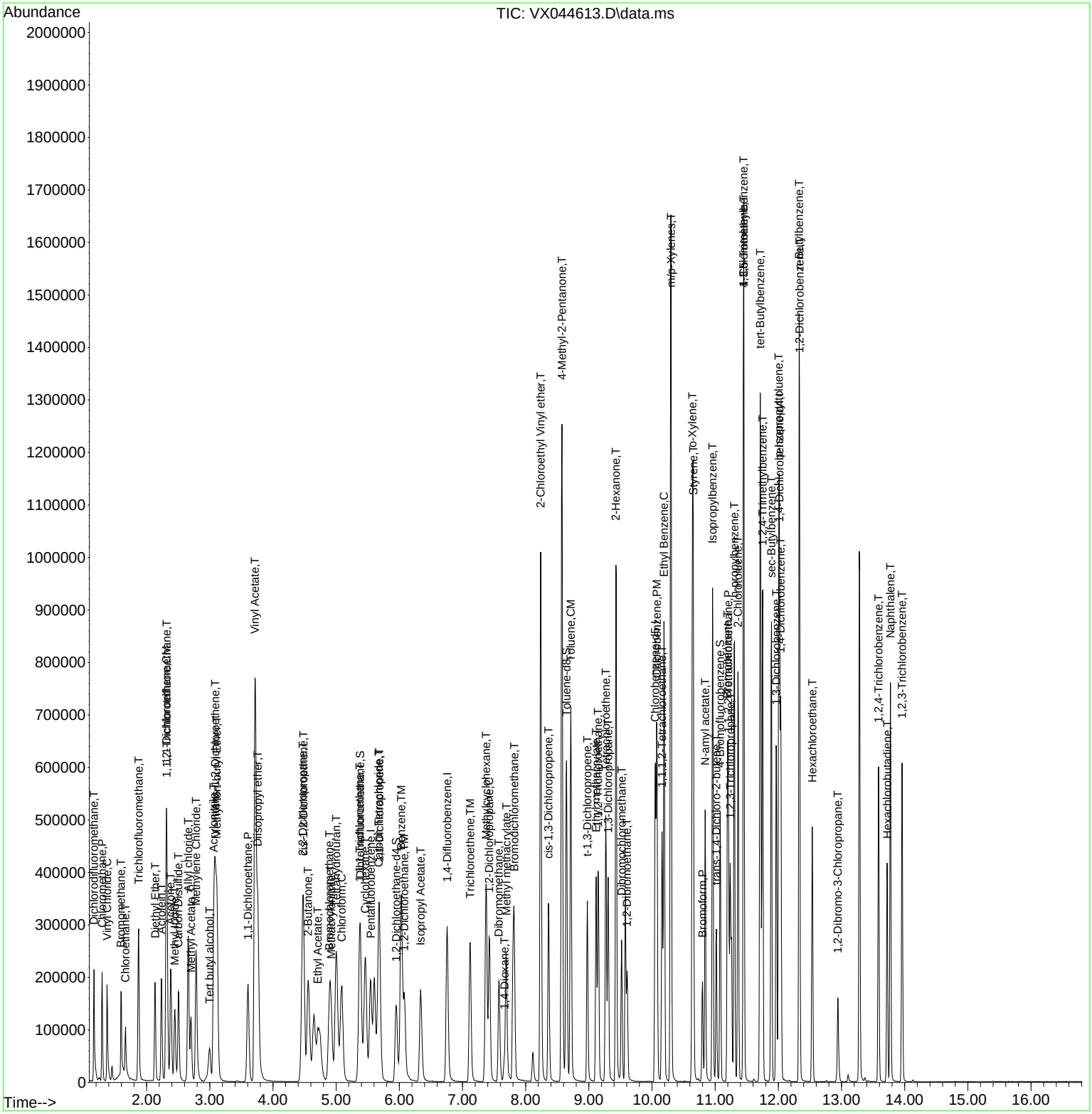
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

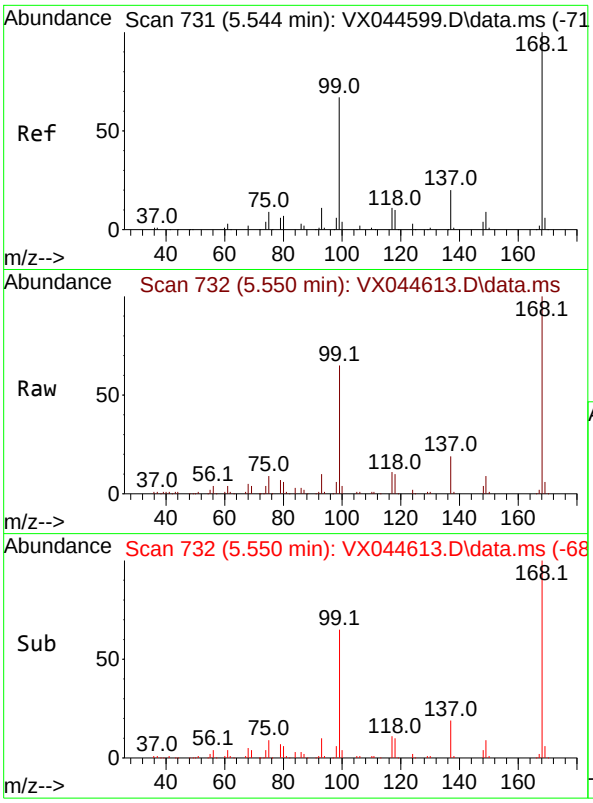
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010725\
Data File : VX044613.D
Acq On : 07 Jan 2025 19:37
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Jan 09 03:35:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X010725W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 08 03:57:12 2025
Response via : Initial Calibration



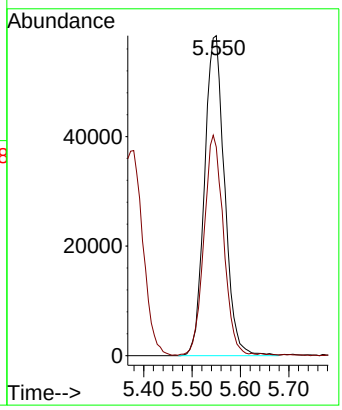


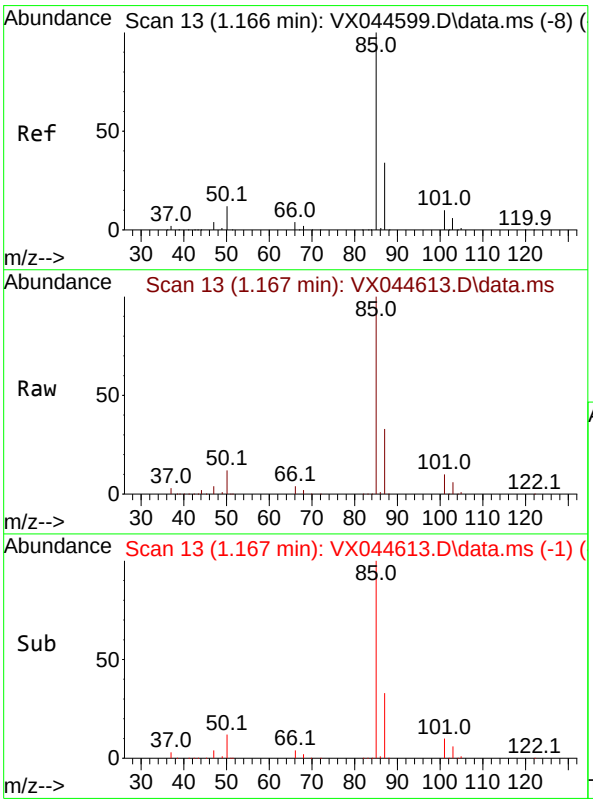
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:168 Resp: 168032

Ion	Ratio	Lower	Upper
168	100		
99	65.0	53.5	80.3

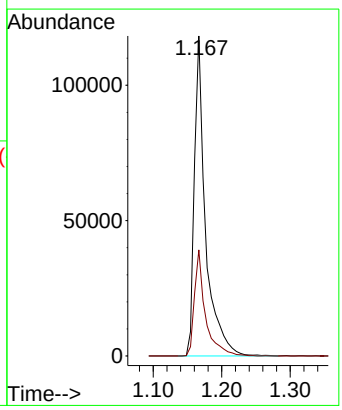


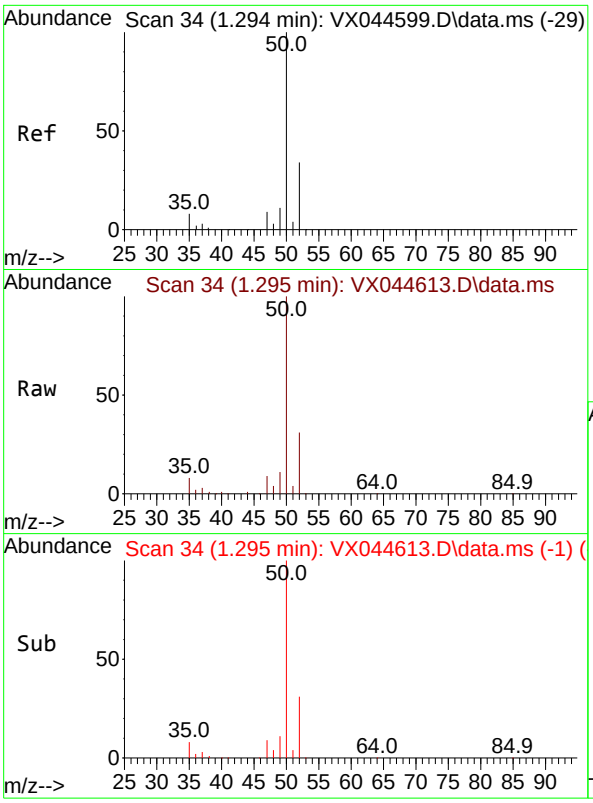


#2
Dichlorodifluoromethane
Concen: 55.337 ug/l
RT: 1.167 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 85 Resp: 134539

Ion	Ratio	Lower	Upper
85	100		
87	33.2	17.2	51.5



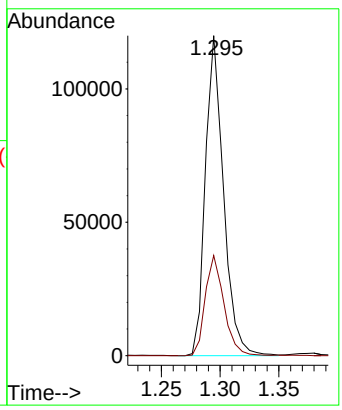


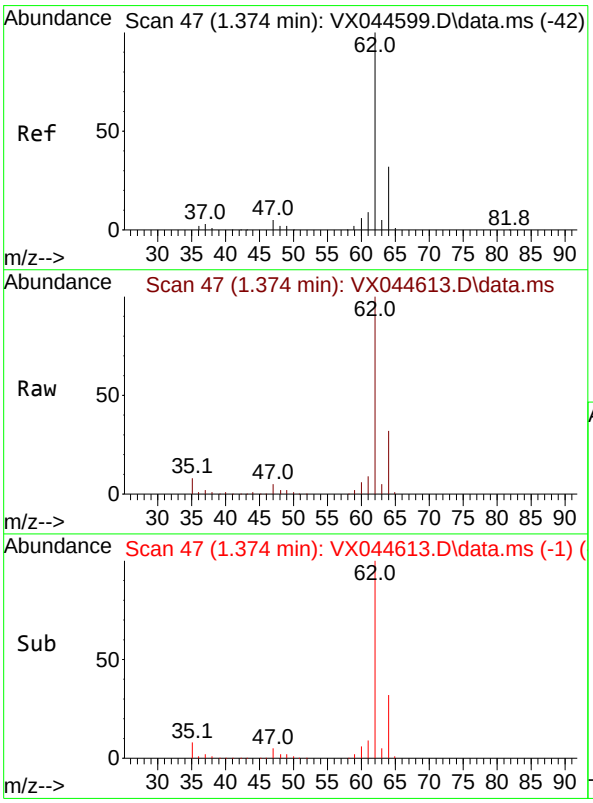
#3
Chloromethane
Concen: 53.178 ug/l
RT: 1.295 min Scan# 34
Delta R.T. 0.001 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 50 Resp: 128841

Ion	Ratio	Lower	Upper
50	100		
52	31.3	27.0	40.4

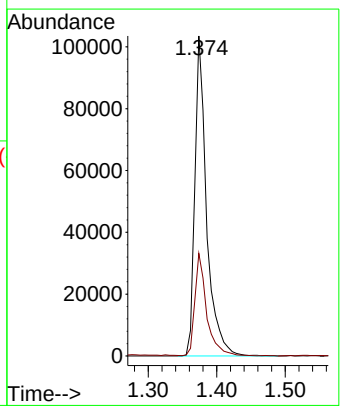


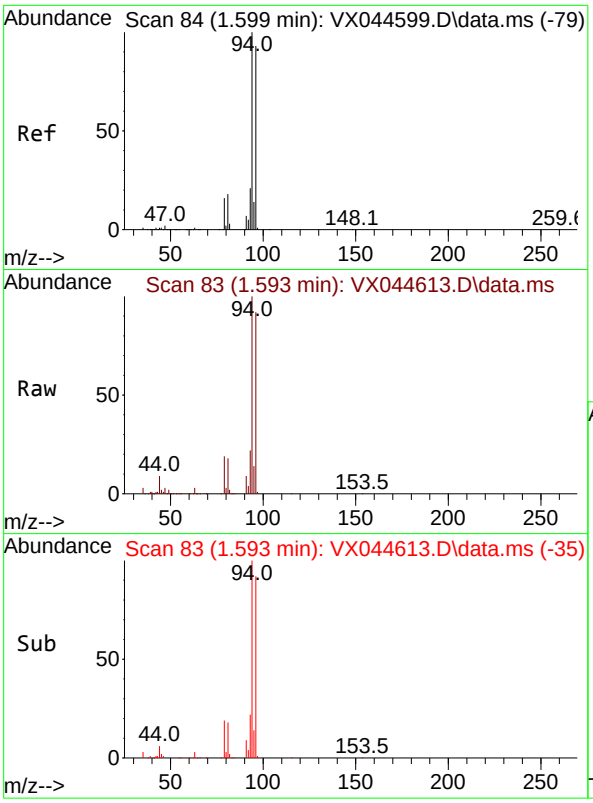


#4
Vinyl Chloride
Concen: 54.253 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 62 Resp: 123309

Ion	Ratio	Lower	Upper
62	100		
64	32.1	26.0	39.0



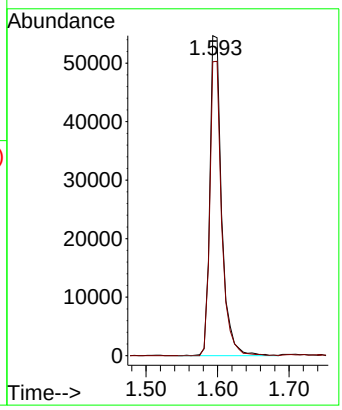


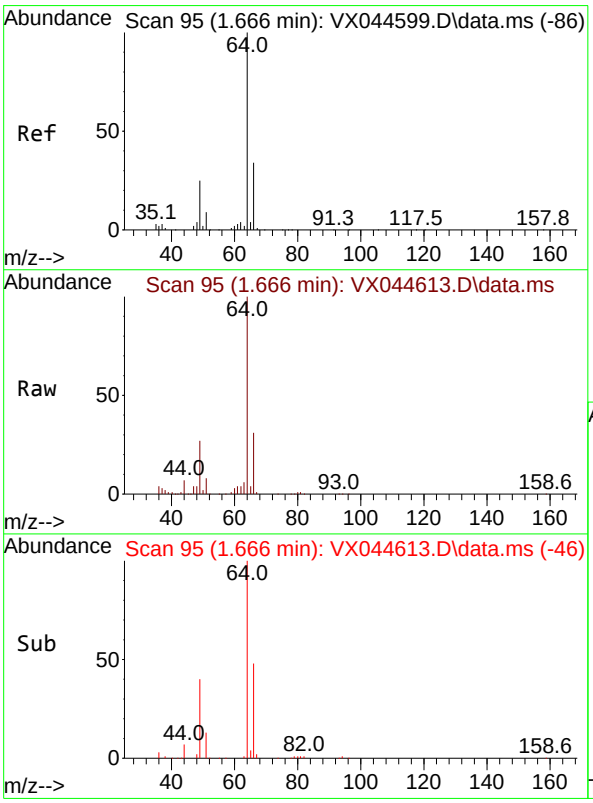
#5
Bromomethane
Concen: 53.125 ug/l
RT: 1.593 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 94 Resp: 62546

Ion	Ratio	Lower	Upper
94	100		
96	91.9	74.6	112.0

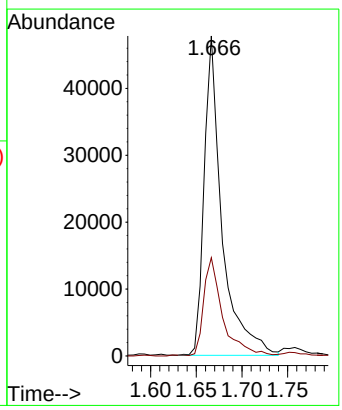


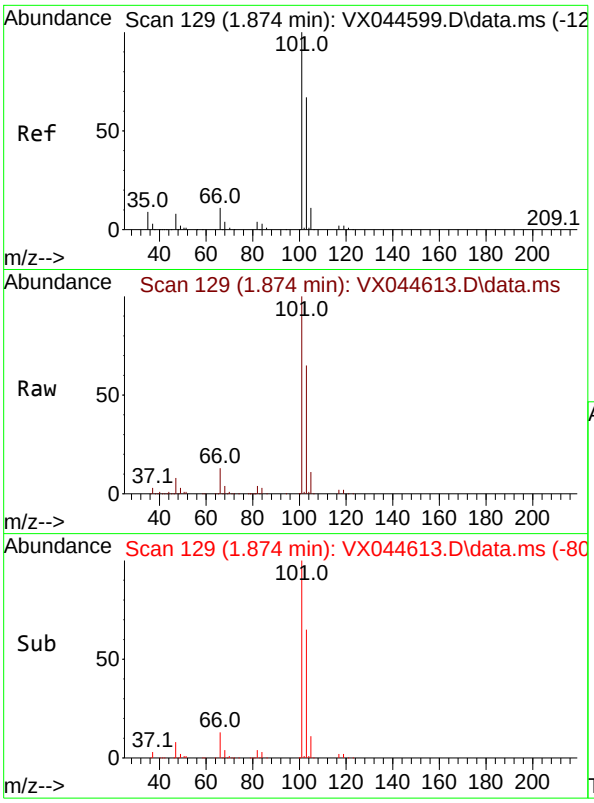


#6
Chloroethane
Concen: 49.799 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 64 Resp: 64752

Ion	Ratio	Lower	Upper
64	100		
66	30.5	27.3	40.9



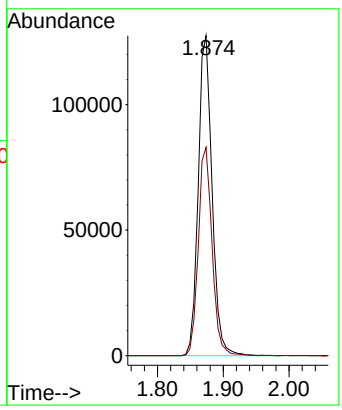


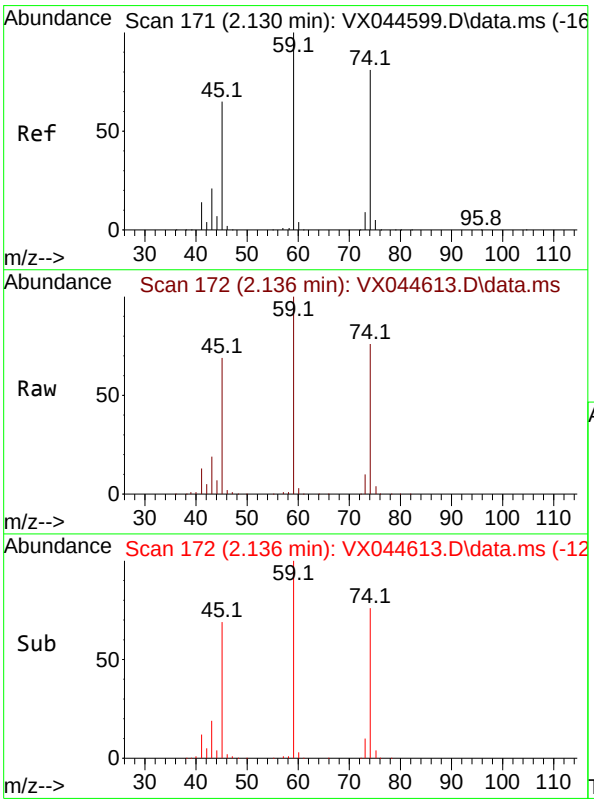
#7
Trichlorofluoromethane
Concen: 54.842 ug/l
RT: 1.874 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:101 Resp: 185599

Ion	Ratio	Lower	Upper
101	100		
103	65.1	53.3	79.9

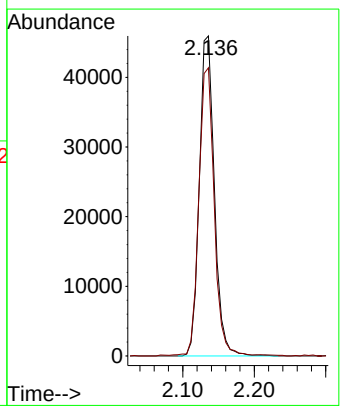


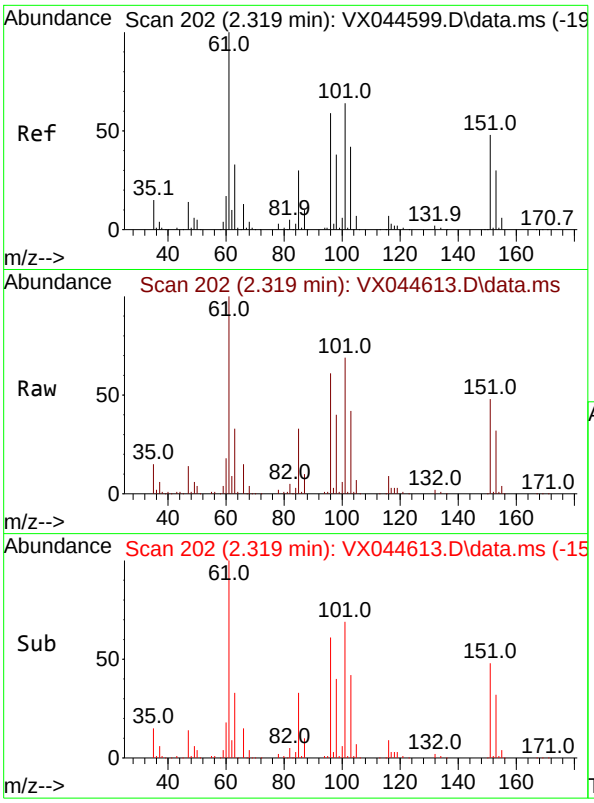


#8
Diethyl Ether
Concen: 56.153 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.006 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 74 Resp: 67148

Ion	Ratio	Lower	Upper
74	100		
45	92.4	41.7	125.1



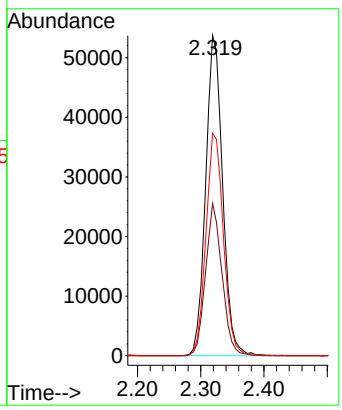


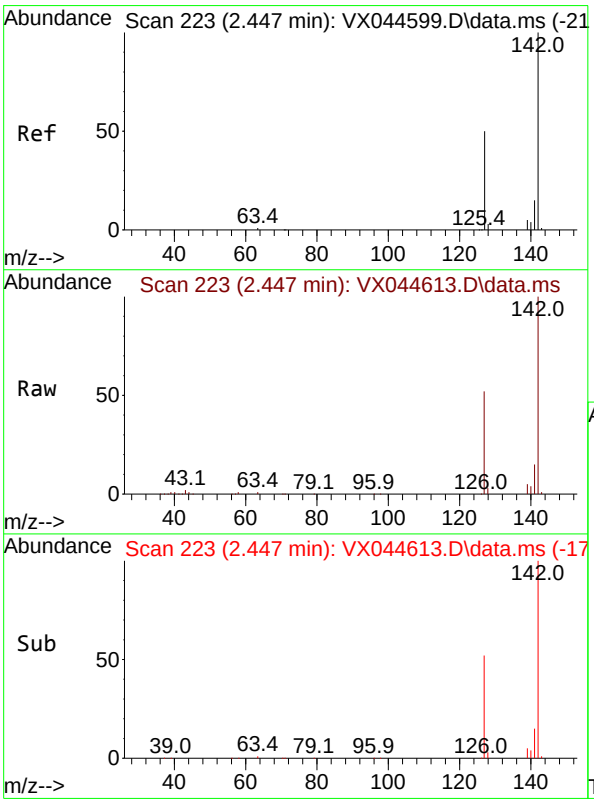
#9
1,1,2-Trichlorotrifluoroethane
Concen: 51.646 ug/l
RT: 2.319 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:101 Resp: 100212

Ion	Ratio	Lower	Upper
101	100		
85	46.2	36.5	54.7
151	71.7	58.6	87.8

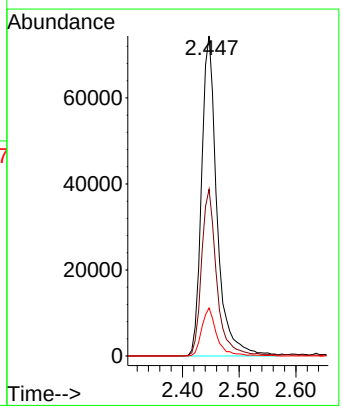


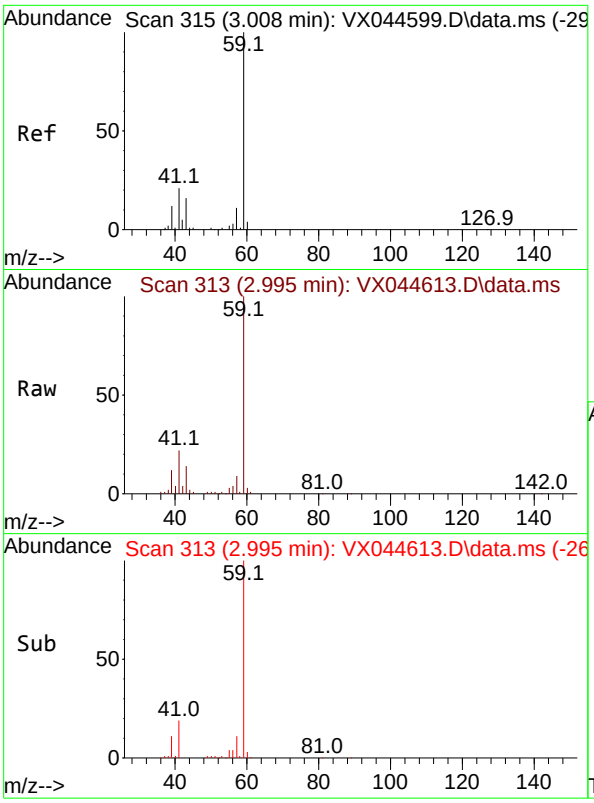


#10
Methyl Iodide
Concen: 52.097 ug/l
RT: 2.447 min Scan# 223
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion:142 Resp: 140962

Ion	Ratio	Lower	Upper
142	100		
127	51.5	41.9	62.9
141	14.7	11.8	17.6



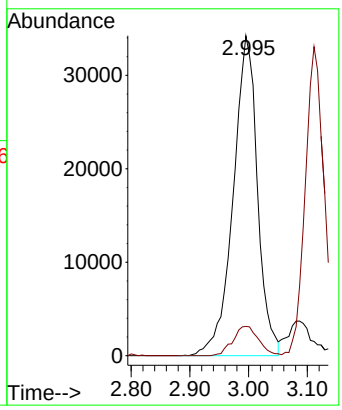


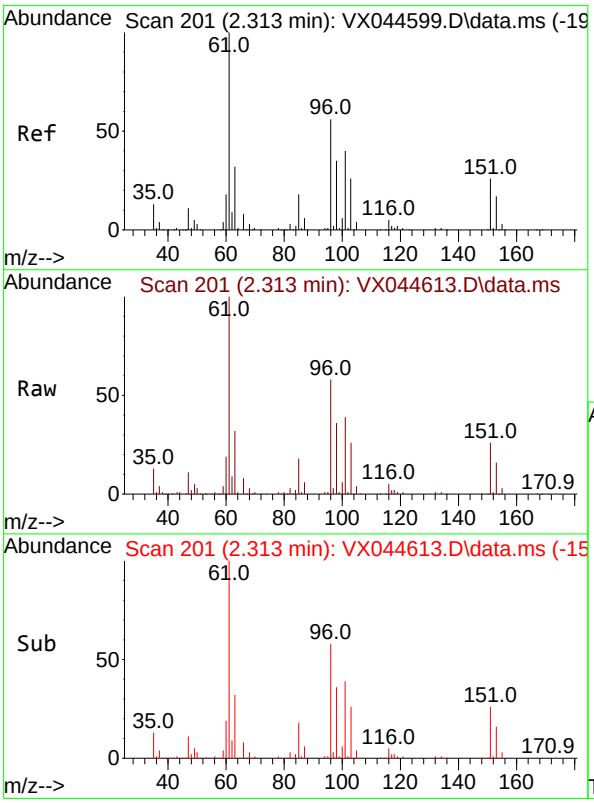
#11
Tert butyl alcohol
Concen: 294.641 ug/l
RT: 2.995 min Scan# 3
Delta R.T. -0.012 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 59 Resp: 98297

Ion	Ratio	Lower	Upper
59	100		
57	9.7	8.6	12.8

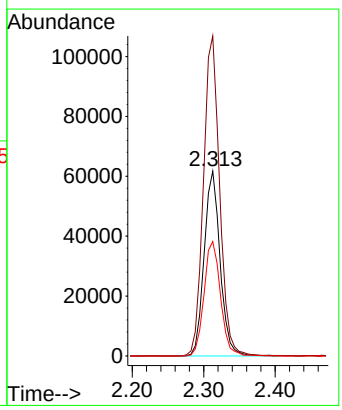


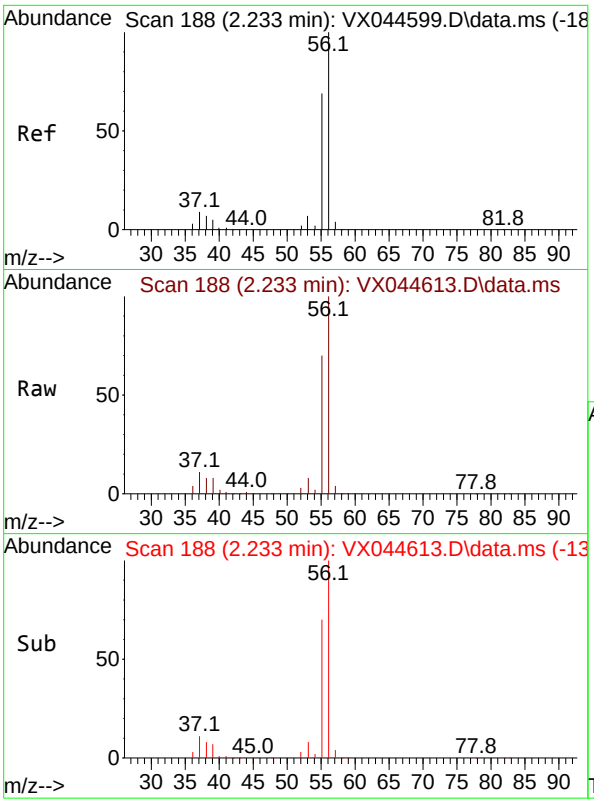


#12
1,1-Dichloroethene
Concen: 50.866 ug/l
RT: 2.313 min Scan# 201
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 96 Resp: 95617

Ion	Ratio	Lower	Upper
96	100		
61	173.1	143.3	214.9
98	61.9	50.6	76.0



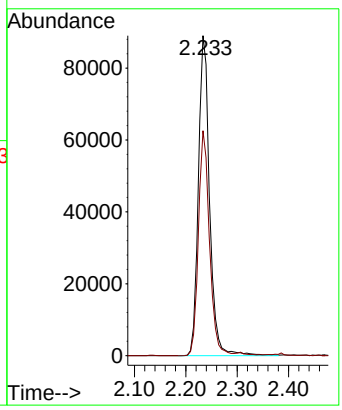


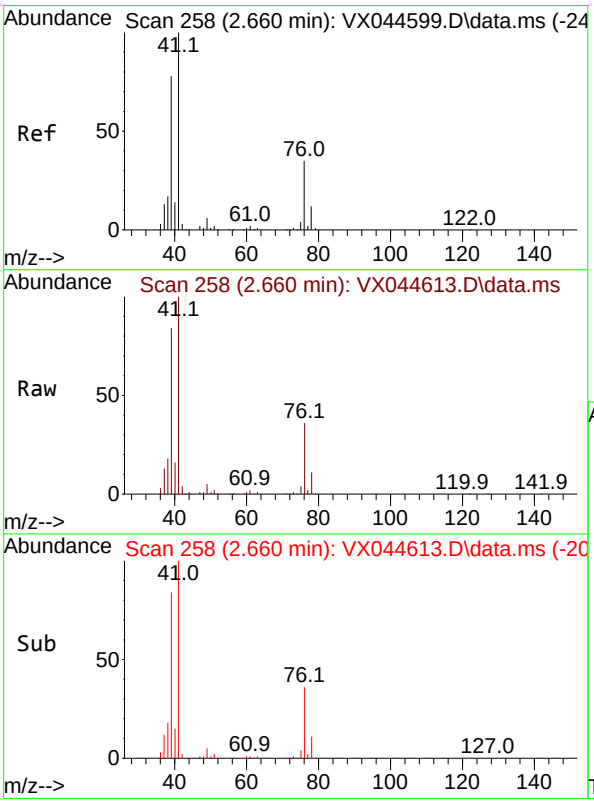
#13
Acrolein
Concen: 306.047 ug/l
RT: 2.233 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 56 Resp: 134997

Ion	Ratio	Lower	Upper
56	100		
55	69.6	55.8	83.8

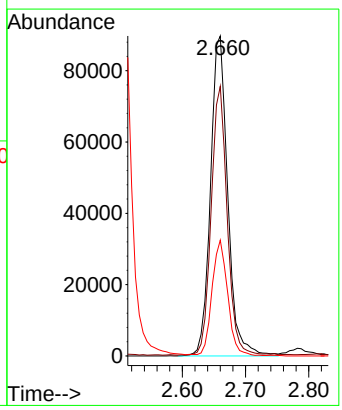


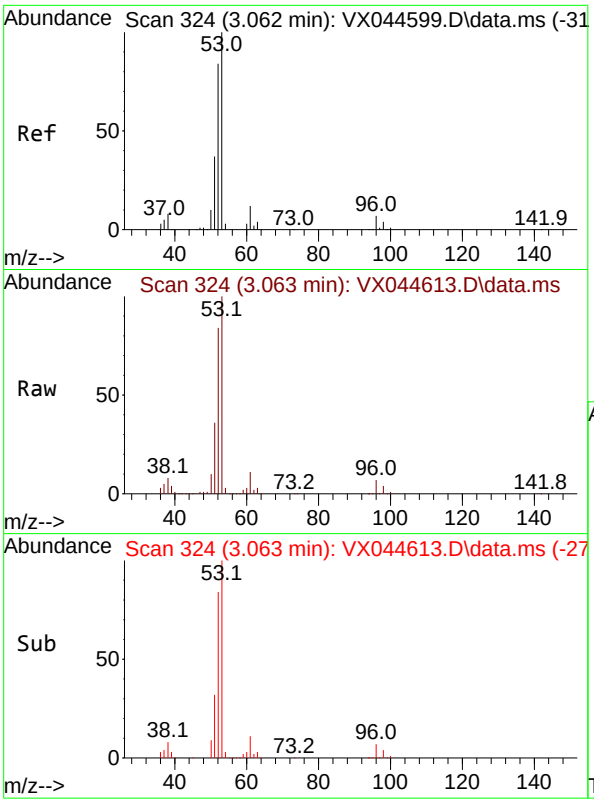


#14
Allyl chloride
Concen: 54.415 ug/l
RT: 2.660 min Scan# 258
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 41 Resp: 170117

Ion	Ratio	Lower	Upper
41	100		
39	78.2	60.2	90.2
76	32.5	25.9	38.9



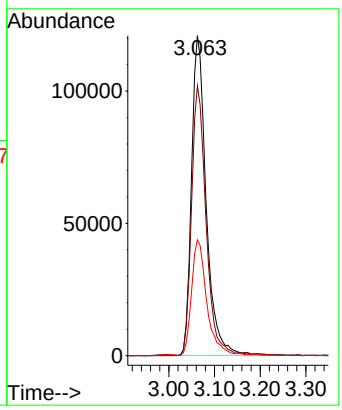


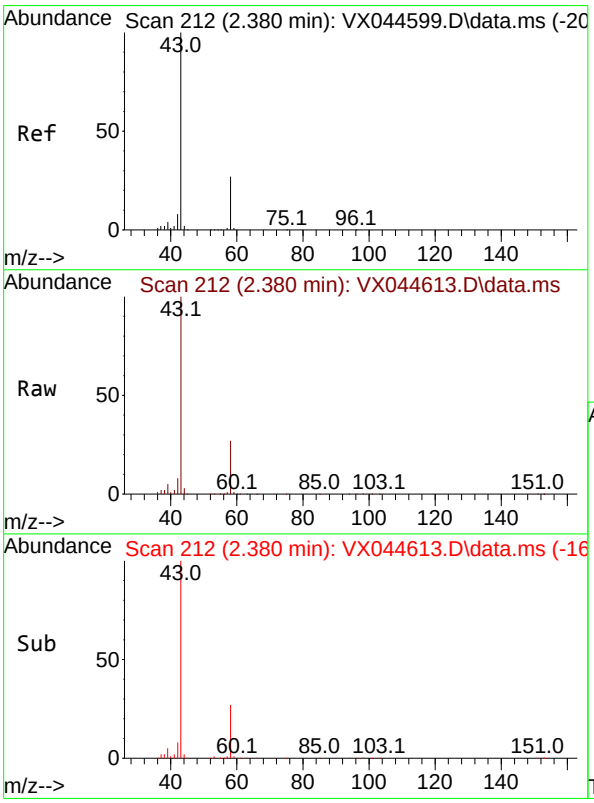
#15
Acrylonitrile
Concen: 280.157 ug/l
RT: 3.063 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 53 Resp: 269181

Ion	Ratio	Lower	Upper
53	100		
52	83.9	67.0	100.6
51	37.7	29.4	44.0

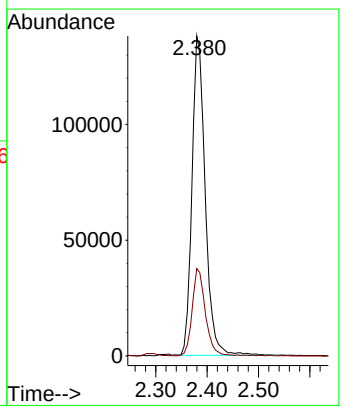


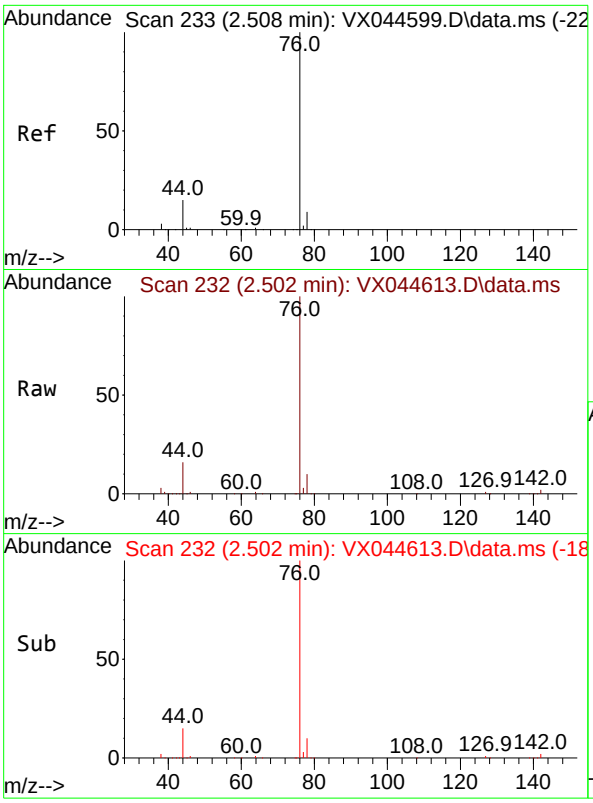


#16
Acetone
Concen: 288.715 ug/l
RT: 2.380 min Scan# 212
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 43 Resp: 246540

Ion	Ratio	Lower	Upper
43	100		
58	27.3	22.0	33.0



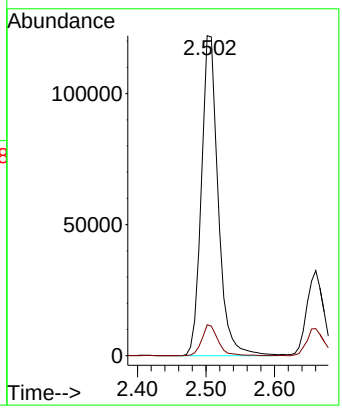


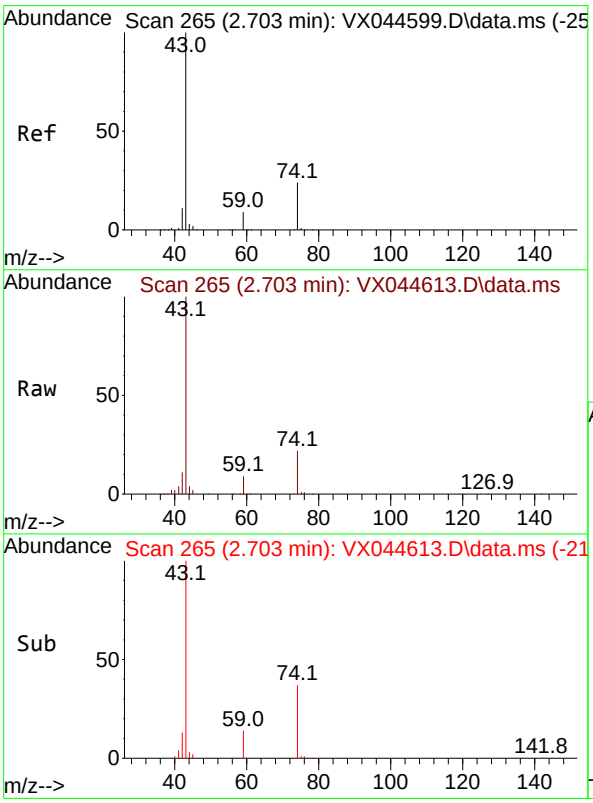
#17
Carbon Disulfide
Concen: 53.692 ug/l
RT: 2.502 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 76 Resp: 208698

Ion	Ratio	Lower	Upper
76	100		
78	9.6	7.1	10.7

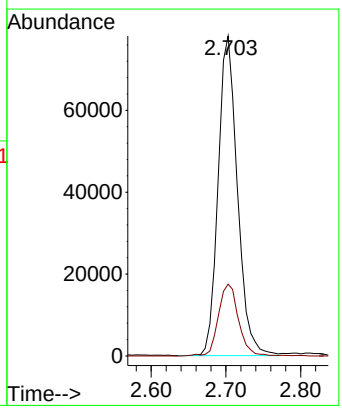


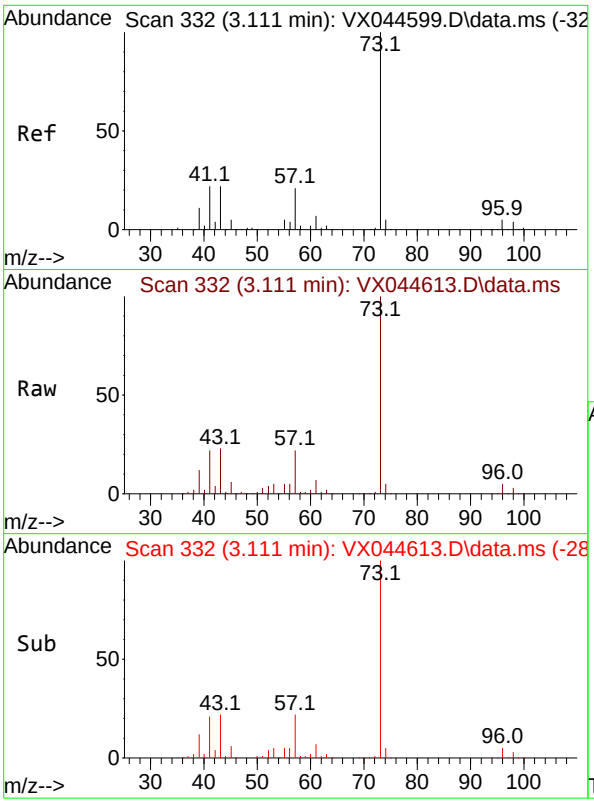


#18
Methyl Acetate
Concen: 55.654 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 43 Resp: 140271

Ion	Ratio	Lower	Upper
43	100		
74	23.5	19.3	28.9



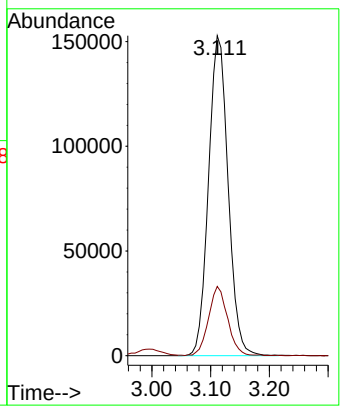


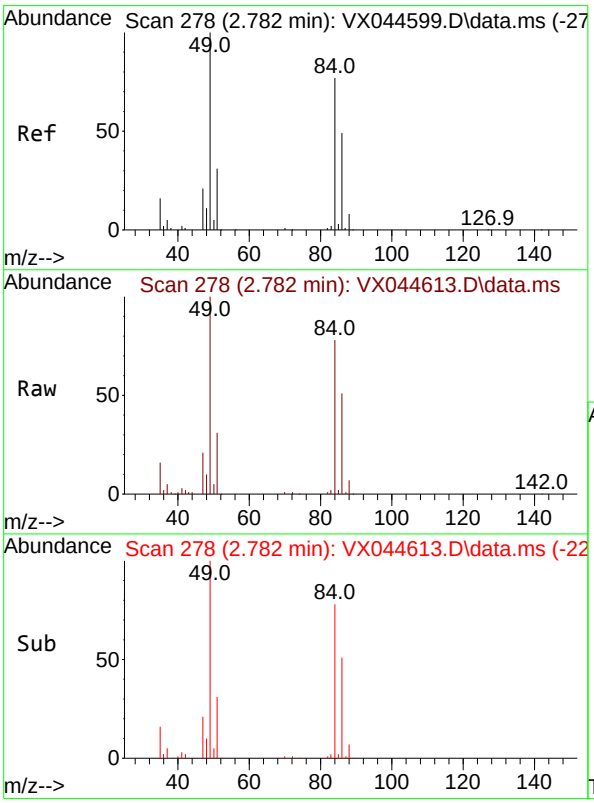
#19
Methyl tert-butyl Ether
Concen: 54.815 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 73 Resp: 353121

Ion	Ratio	Lower	Upper
73	100		
57	21.5	17.0	25.4

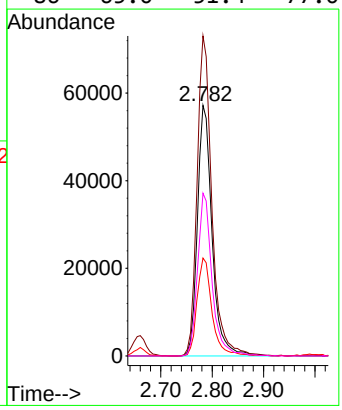


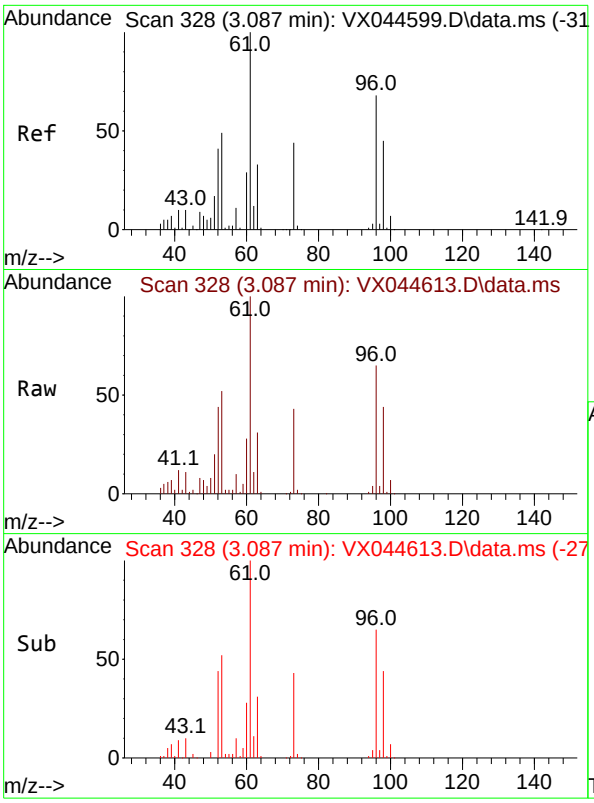


#20
Methylene Chloride
Concen: 51.920 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 84 Resp: 113109

Ion	Ratio	Lower	Upper
84	100		
49	127.7	104.4	156.6
51	39.1	32.0	48.0
86	65.0	51.4	77.0



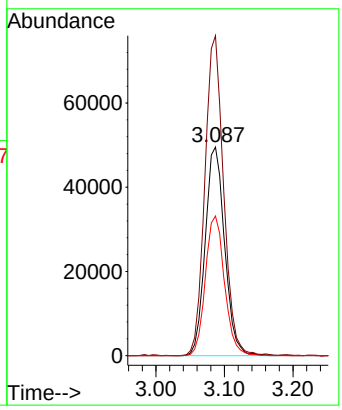


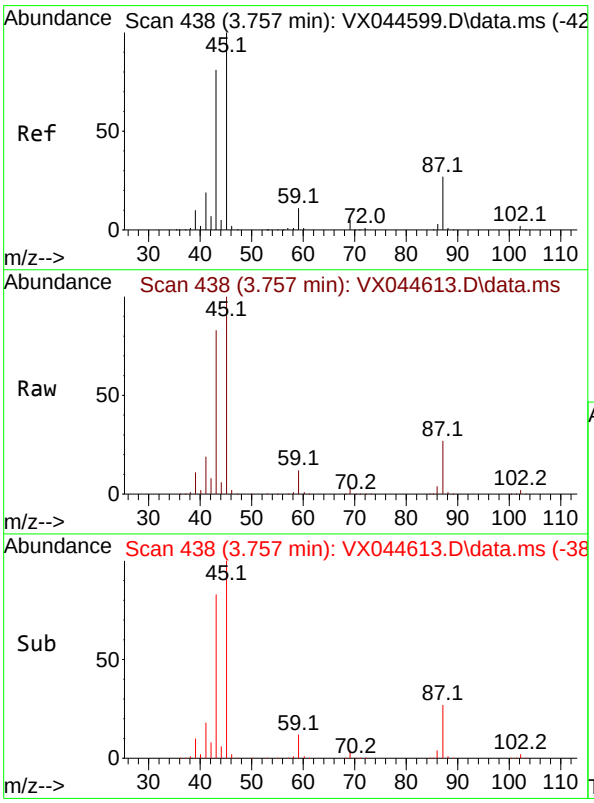
#21
trans-1,2-Dichloroethene
Concen: 50.624 ug/l
RT: 3.087 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 96 Resp: 97667

Ion	Ratio	Lower	Upper
96	100		
61	153.4	118.5	177.7
98	67.0	53.4	80.0

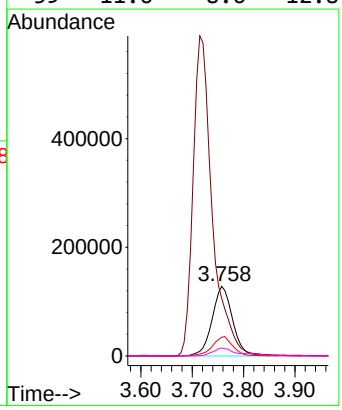


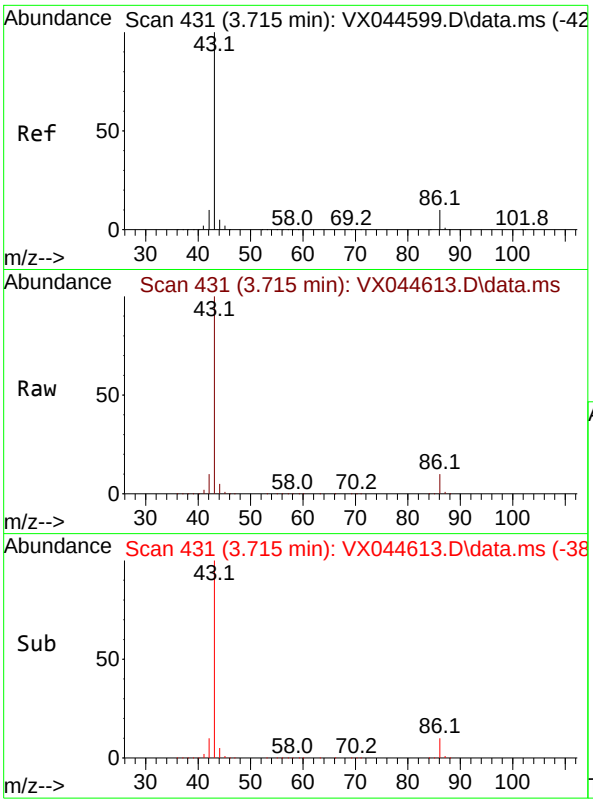


#22
Diisopropyl ether
Concen: 55.179 ug/l
RT: 3.757 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 45 Resp: 354623

Ion	Ratio	Lower	Upper
45	100		
43	82.1	64.6	97.0
87	26.8	21.8	32.8
59	11.6	8.6	12.8



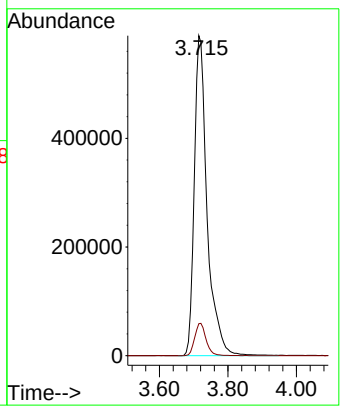


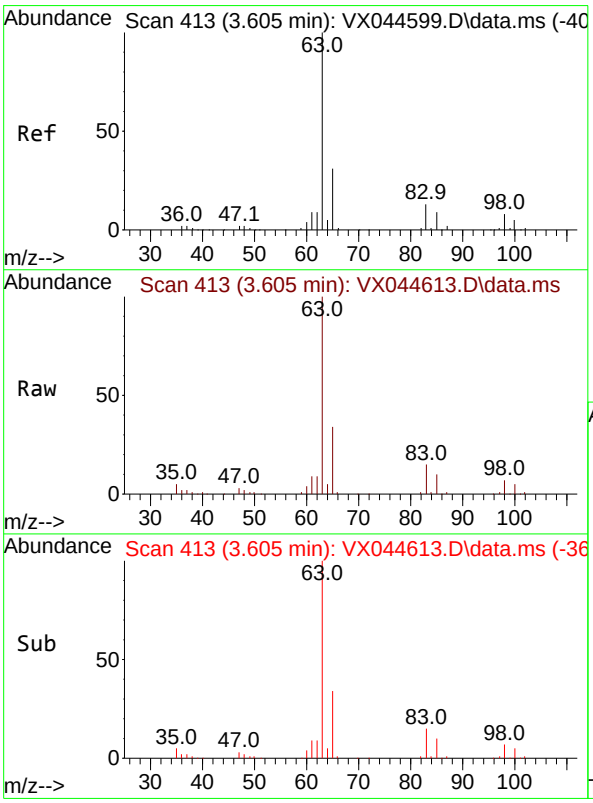
#23
Vinyl Acetate
Concen: 295.397 ug/l
RT: 3.715 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 1535167

Ion	Ratio	Lower	Upper
43	100		
86	10.0	8.1	12.1

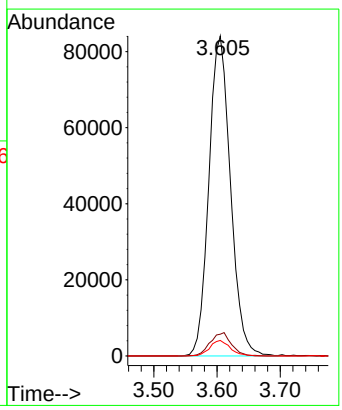


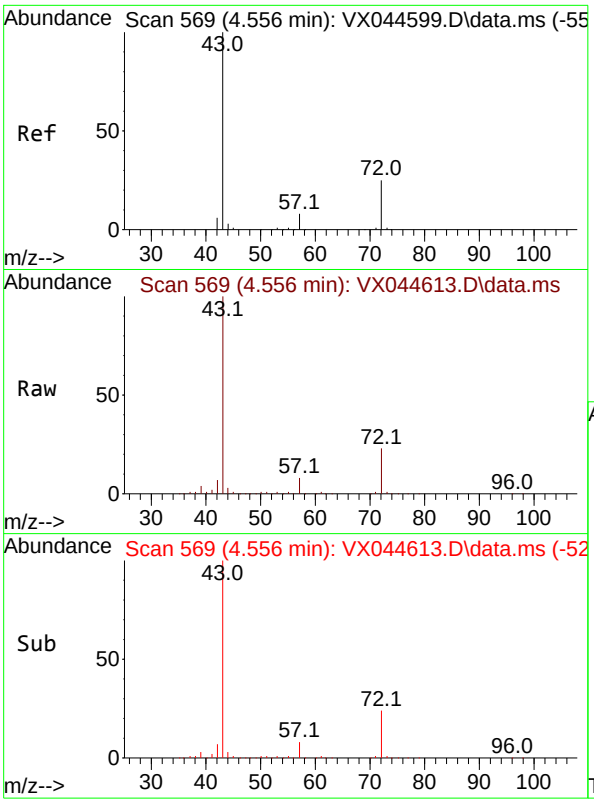


#24
1,1-Dichloroethane
Concen: 53.250 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 63 Resp: 199407

Ion	Ratio	Lower	Upper
63	100		
98	6.8	3.8	11.4
100	4.8	2.4	7.2



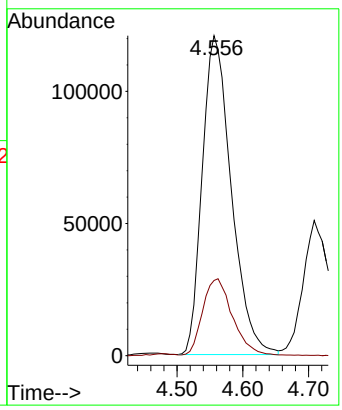


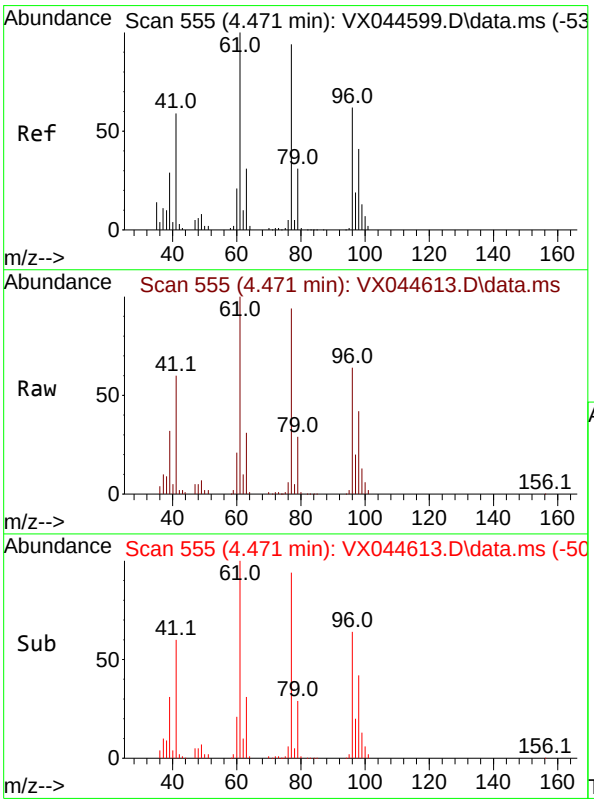
#25
2-Butanone
Concen: 300.736 ug/l
RT: 4.556 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 370671

Ion	Ratio	Lower	Upper
43	100		
72	23.3	20.2	30.2

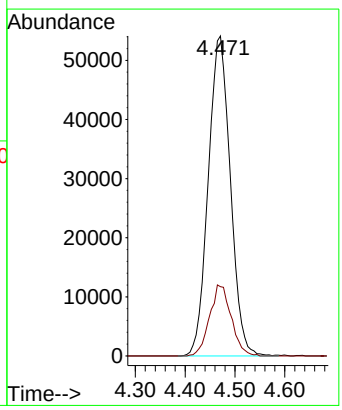


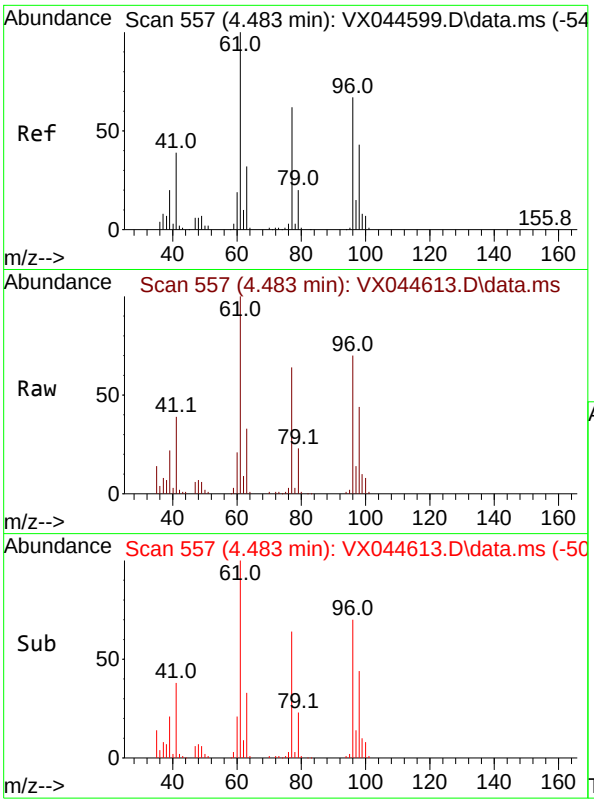


#26
2,2-Dichloropropane
Concen: 51.490 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 77 Resp: 166708

Ion	Ratio	Lower	Upper
77	100		
97	21.7	10.7	32.1



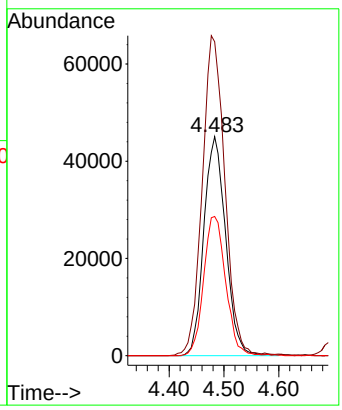


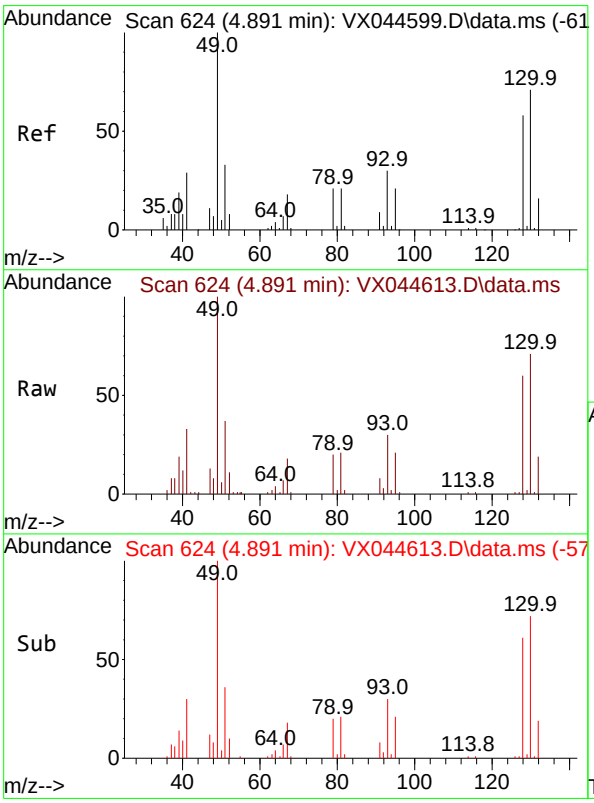
#27
cis-1,2-Dichloroethene
Concen: 52.916 ug/l
RT: 4.483 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 96 Resp: 124483

Ion	Ratio	Lower	Upper
96	100		
61	151.5	0.0	302.8
98	64.4	0.0	130.0

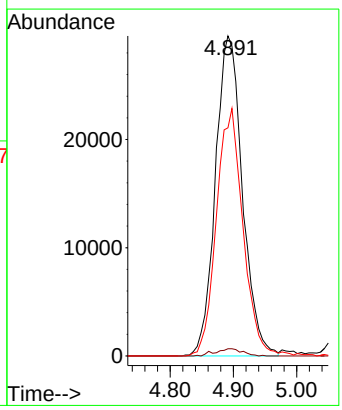


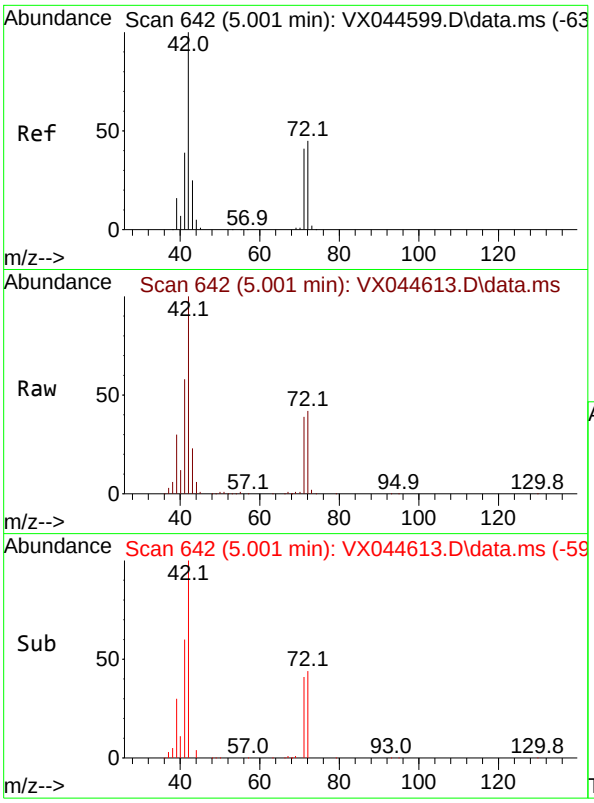


#28
Bromochloromethane
Concen: 50.249 ug/l
RT: 4.891 min Scan# 624
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 49 Resp: 87592

Ion	Ratio	Lower	Upper
49	100		
129	2.3	0.0	4.2
130	76.0	58.8	88.2



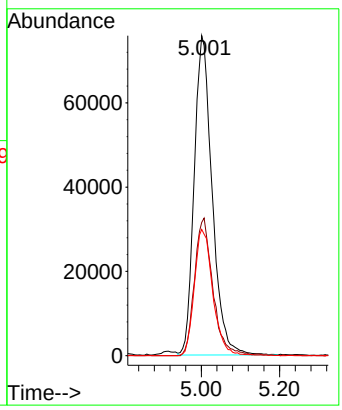


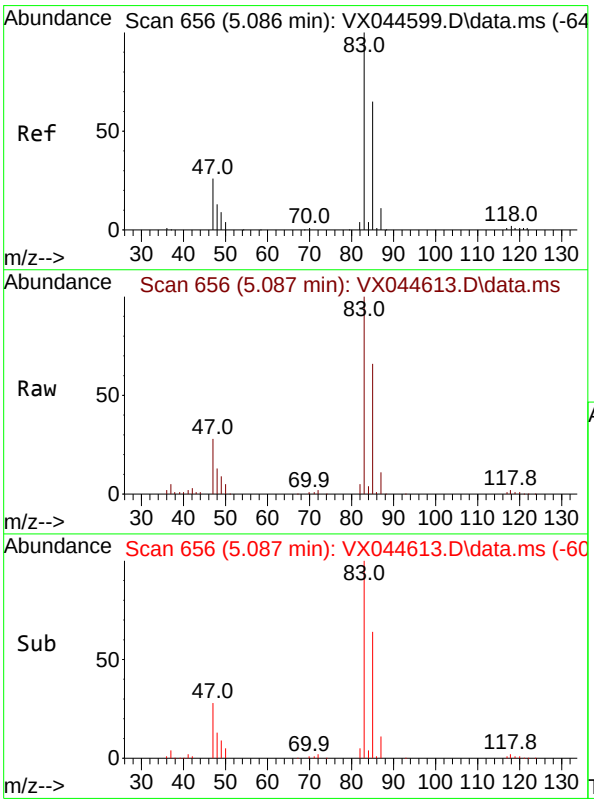
#29
Tetrahydrofuran
Concen: 286.076 ug/l
RT: 5.001 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 42 Resp: 241460

Ion	Ratio	Lower	Upper
42	100		
72	44.0	36.1	54.1
71	40.6	33.0	49.6

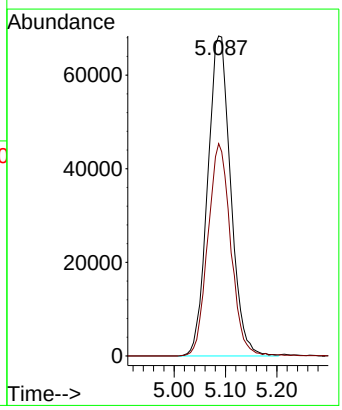


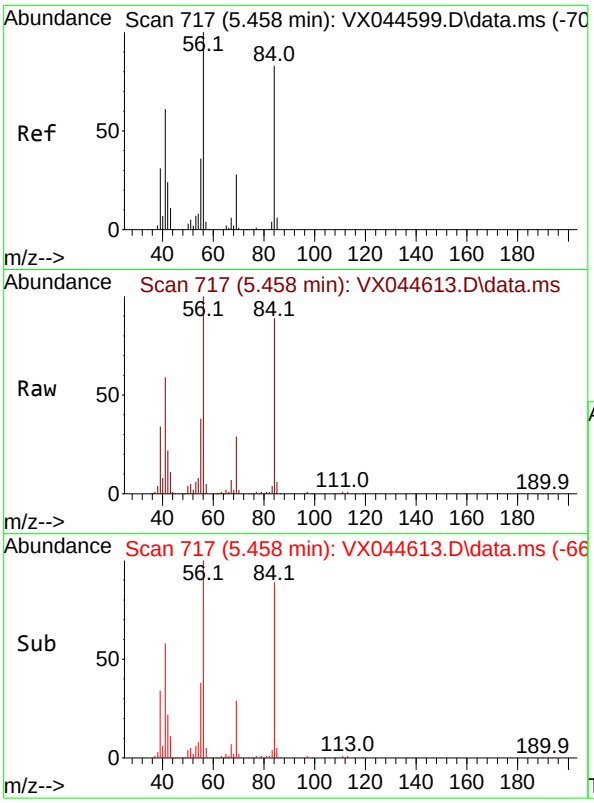


#30
Chloroform
Concen: 52.559 ug/l
RT: 5.087 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 83 Resp: 212184

Ion	Ratio	Lower	Upper
83	100		
85	66.4	52.3	78.5



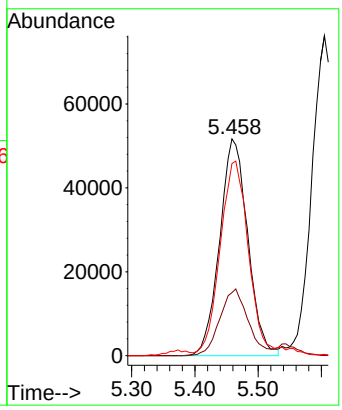


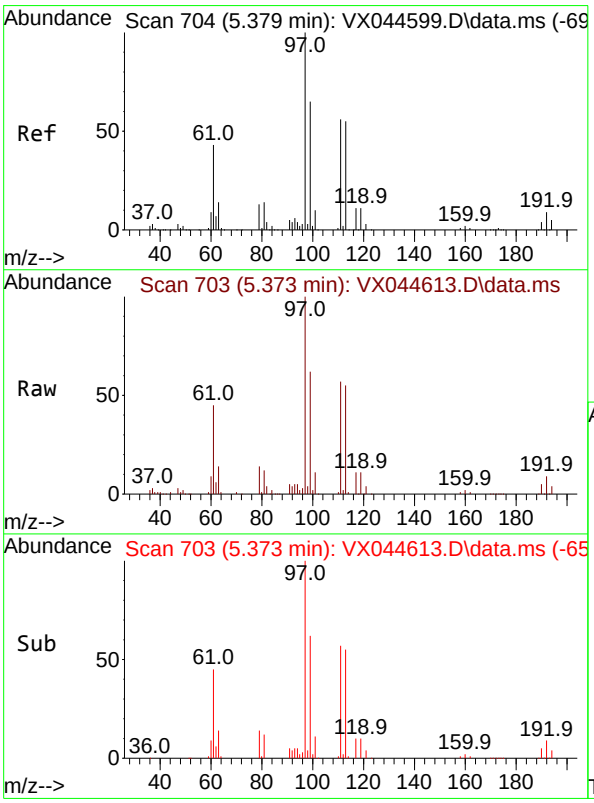
#31
Cyclohexane
Concen: 51.894 ug/l
RT: 5.458 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 56 Resp: 159553

Ion	Ratio	Lower	Upper
56	100		
69	29.1	22.2	33.4
84	85.9	66.6	100.0

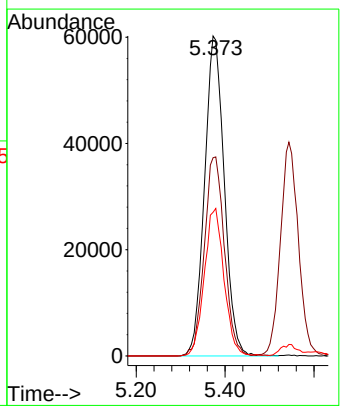


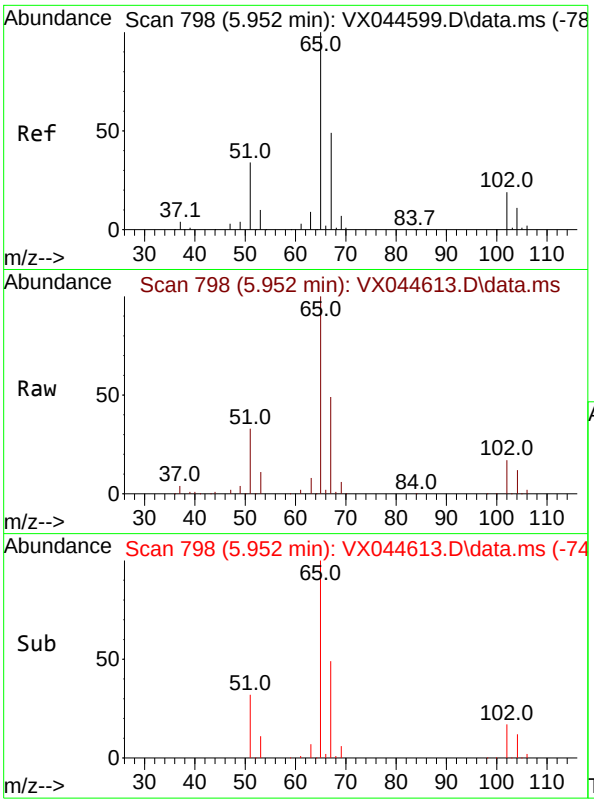


#32
1,1,1-Trichloroethane
Concen: 54.744 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.006 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 97 Resp: 185991

Ion	Ratio	Lower	Upper
97	100		
99	63.5	52.1	78.1
61	46.3	36.8	55.2



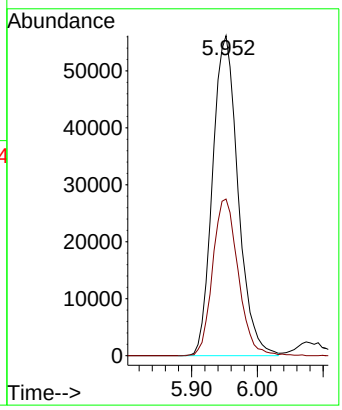


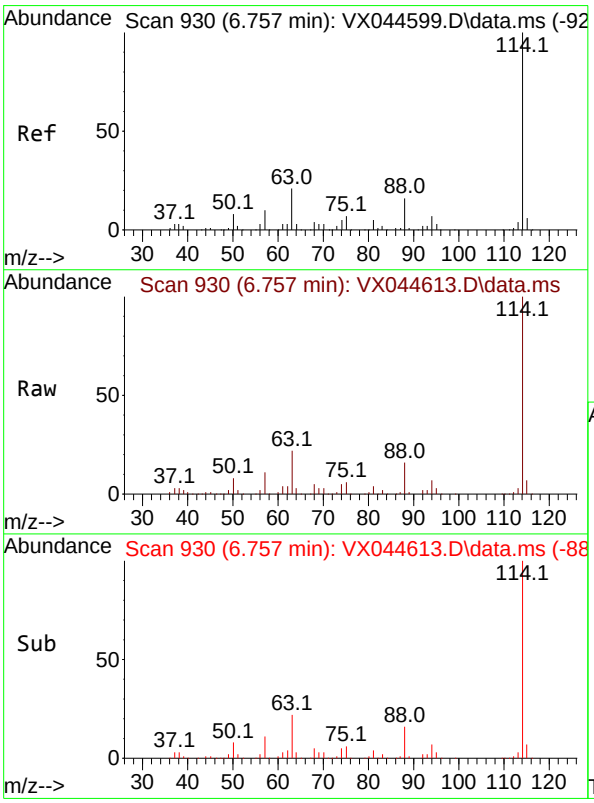
#33
1,2-Dichloroethane-d4
Concen: 55.942 ug/l
RT: 5.952 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 65 Resp: 151564

Ion	Ratio	Lower	Upper
65	100		
67	49.2	0.0	99.0

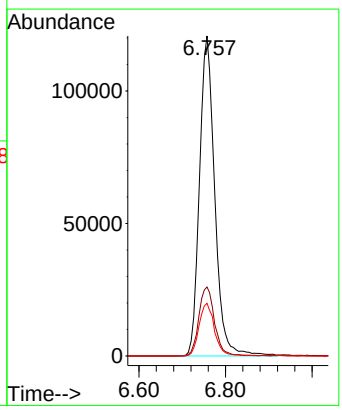


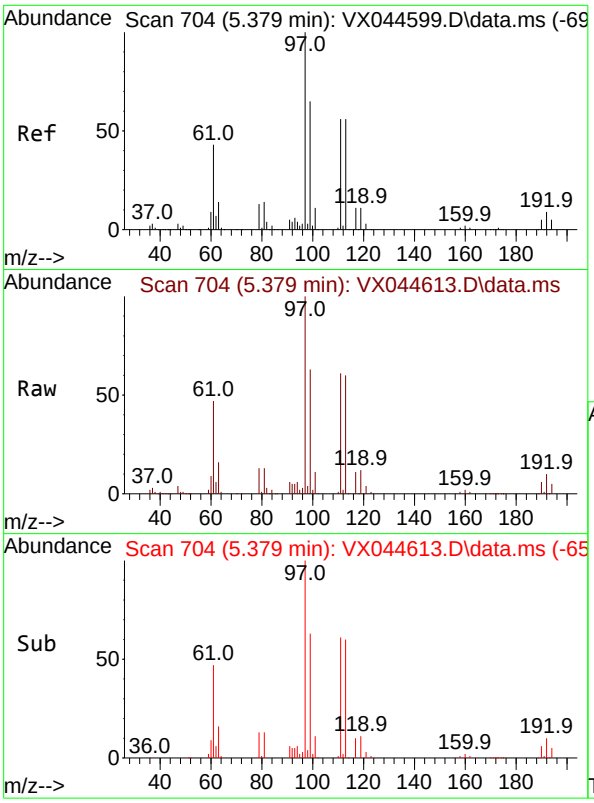


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion:114 Resp: 295835

Ion	Ratio	Lower	Upper
114	100		
63	21.6	0.0	42.6
88	16.5	0.0	32.6



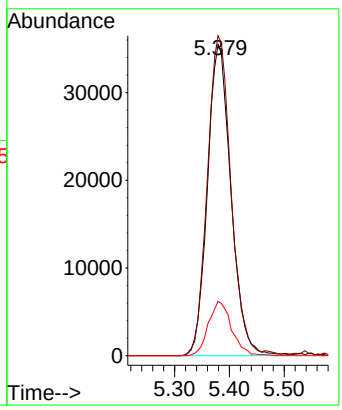


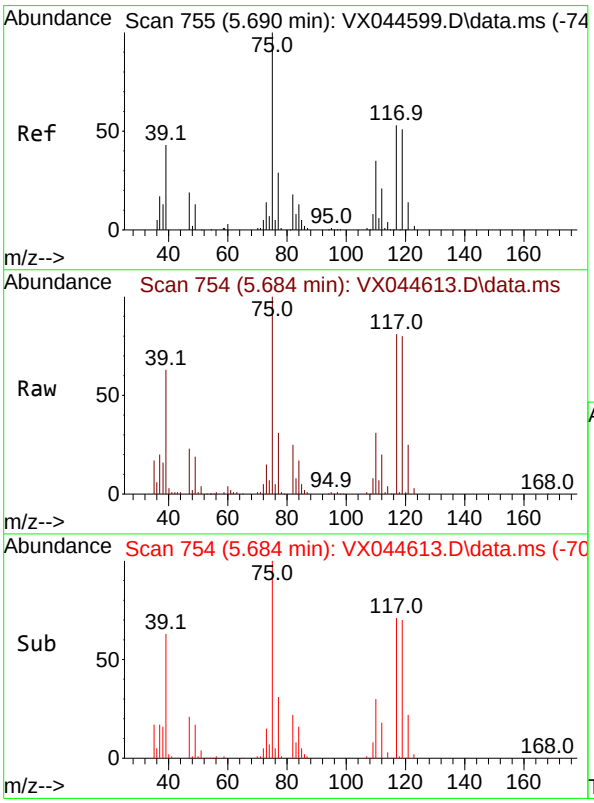
#35
Dibromofluoromethane
Concen: 52.065 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:113 Resp: 105618

Ion	Ratio	Lower	Upper
113	100		
111	103.0	83.3	124.9
192	17.2	14.3	21.5

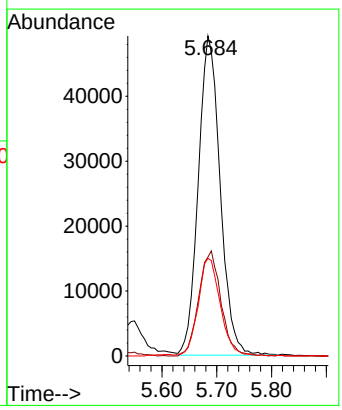


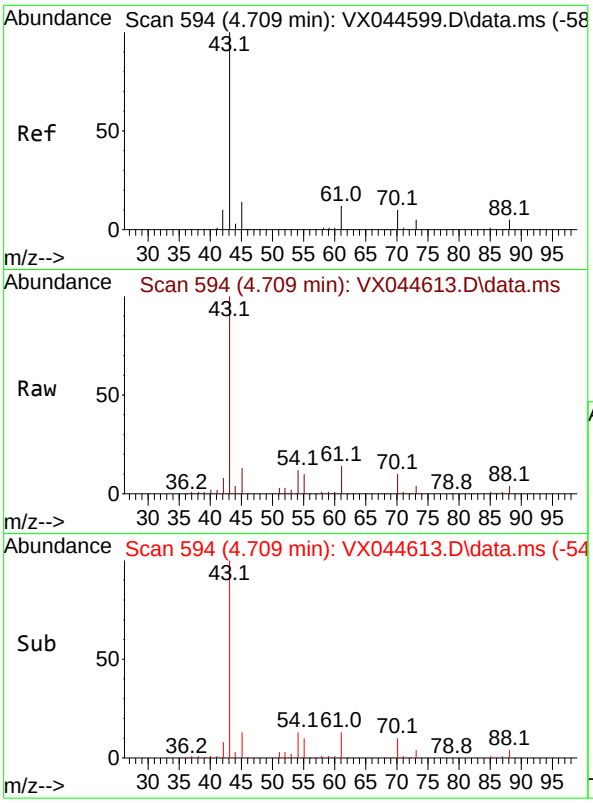


#36
1,1-Dichloropropene
Concen: 52.027 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 75 Resp: 136474

Ion	Ratio	Lower	Upper
75	100		
110	33.4	17.3	51.9
77	30.6	24.7	37.1



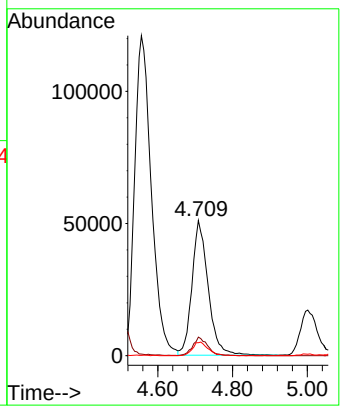


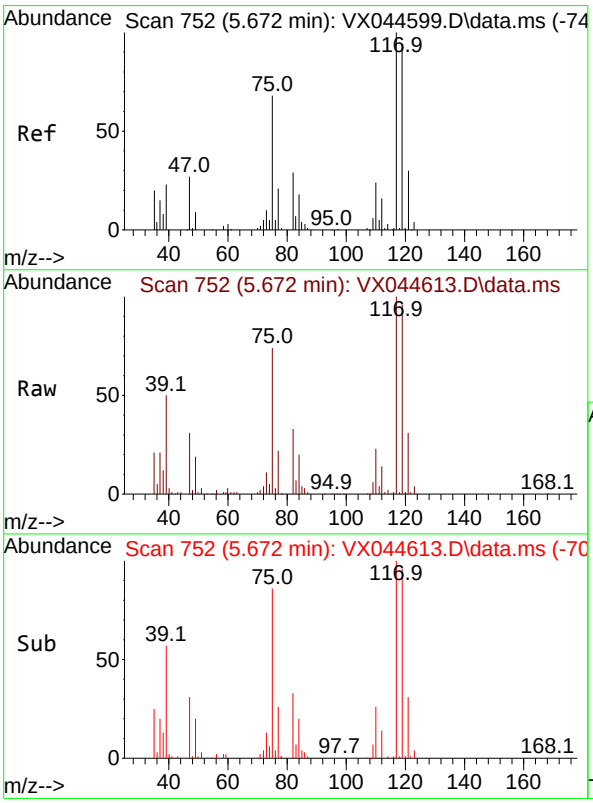
#37
Ethyl Acetate
Concen: 57.053 ug/l
RT: 4.709 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 153095

Ion	Ratio	Lower	Upper
43	100		
61	12.8	9.9	14.9
70	9.8	8.0	12.0

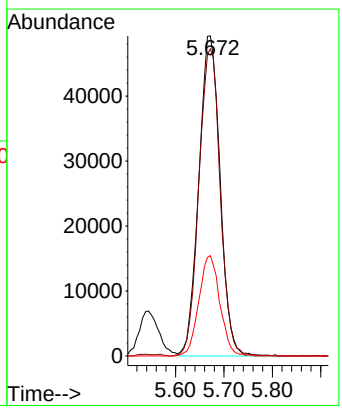


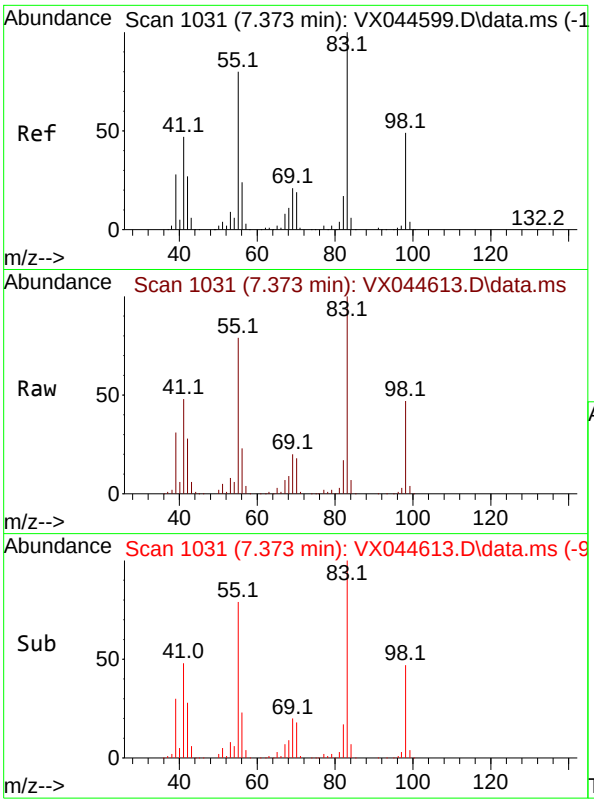


#38
Carbon Tetrachloride
Concen: 51.595 ug/l
RT: 5.672 min Scan# 752
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion:117 Resp: 150161

Ion	Ratio	Lower	Upper
117	100		
119	96.0	74.5	111.7
121	31.3	24.1	36.1



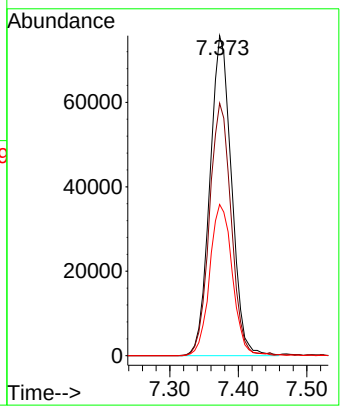


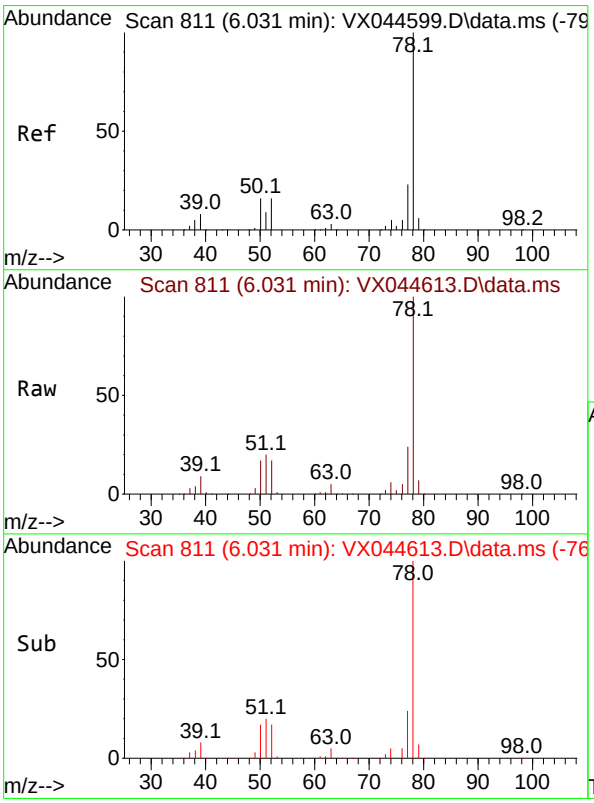
#39
Methylcyclohexane
Concen: 49.669 ug/l
RT: 7.373 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 166246

Ion	Ratio	Lower	Upper
83	100		
55	78.9	64.1	96.1
98	47.3	38.9	58.3

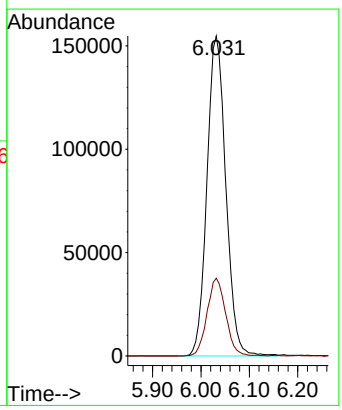


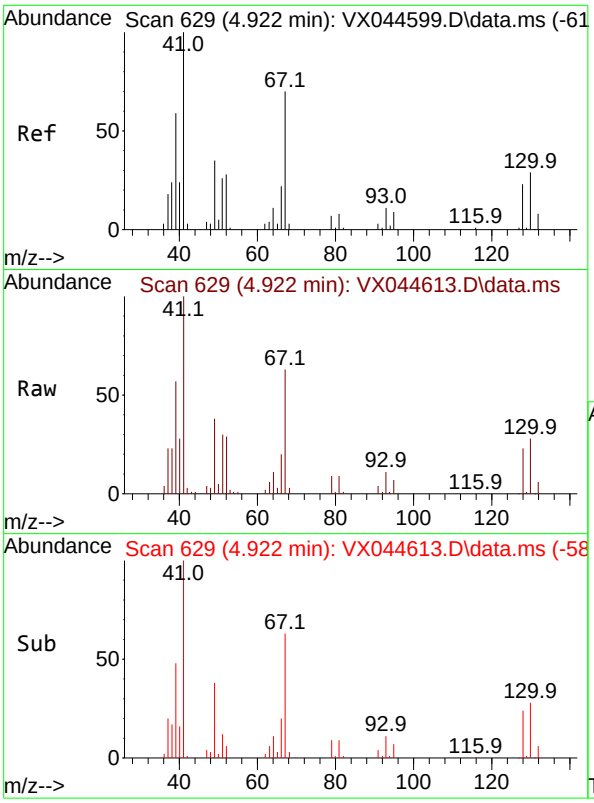


#40
Benzene
Concen: 50.785 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 78 Resp: 419445

Ion	Ratio	Lower	Upper
78	100		
77	24.3	18.8	28.2



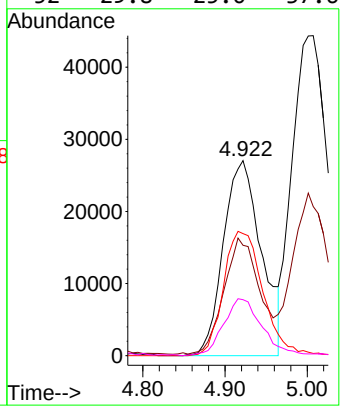


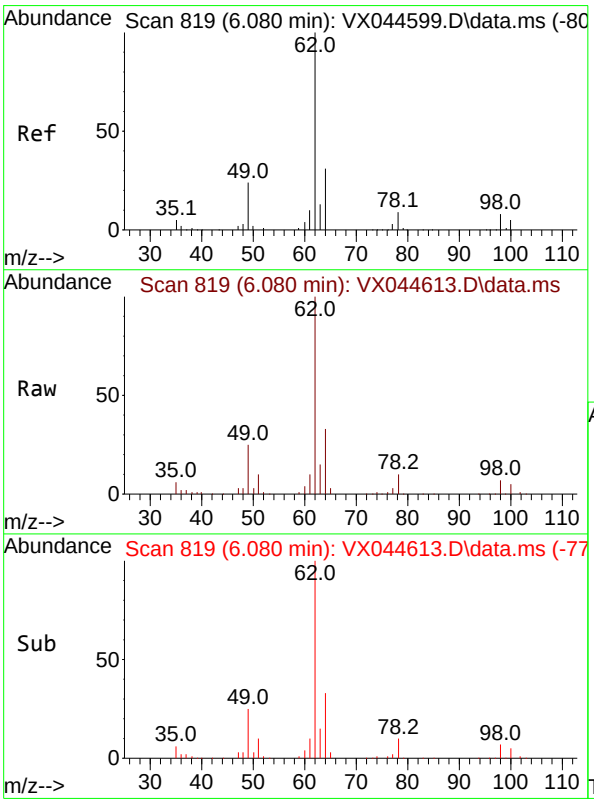
#41
Methacrylonitrile
Concen: 60.464 ug/l
RT: 4.922 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 41 Resp: 87090

Ion	Ratio	Lower	Upper
41	100		
39	55.5	47.0	70.4
67	66.2	57.4	86.2
52	29.8	25.0	37.6

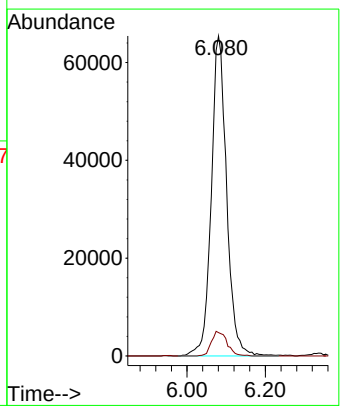


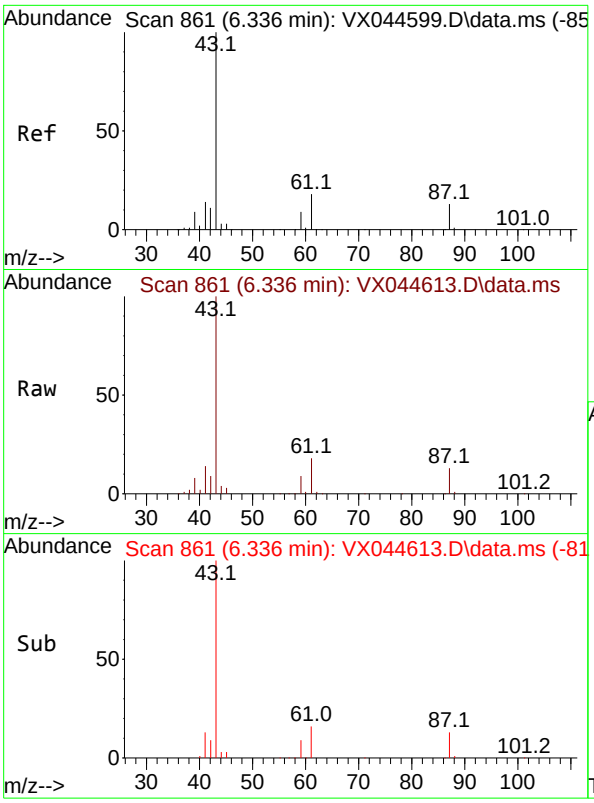


#42
1,2-Dichloroethane
Concen: 55.178 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 62 Resp: 178223

Ion	Ratio	Lower	Upper
62	100		
98	7.8	0.0	15.8



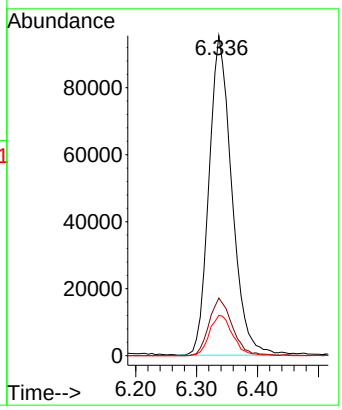


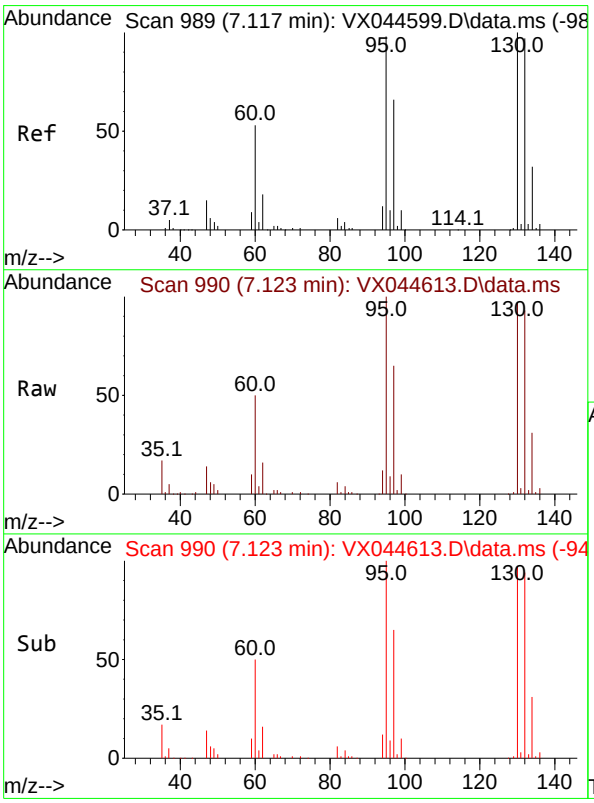
#43
Isopropyl Acetate
Concen: 56.022 ug/l
RT: 6.336 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 248008

Ion	Ratio	Lower	Upper
43	100		
61	18.3	14.5	21.7
87	13.0	10.1	15.1

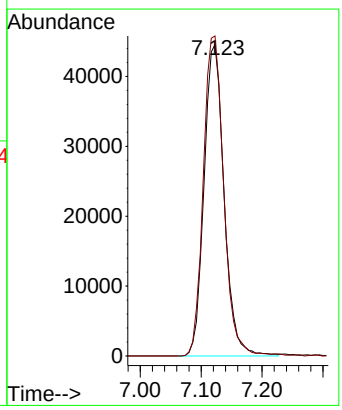


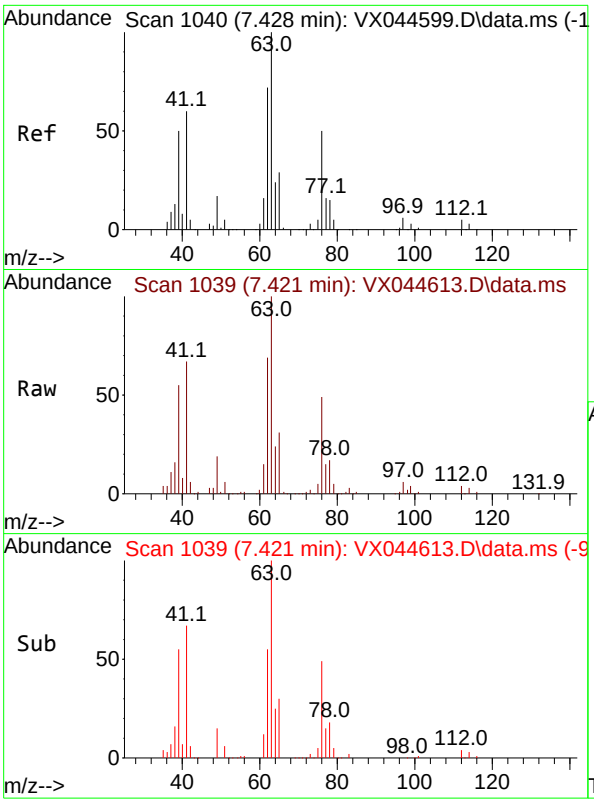


#44
Trichloroethene
Concen: 48.261 ug/l
RT: 7.123 min Scan# 990
Delta R.T. 0.006 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion:130 Resp: 101890

Ion	Ratio	Lower	Upper
130	100		
95	102.8	0.0	195.6



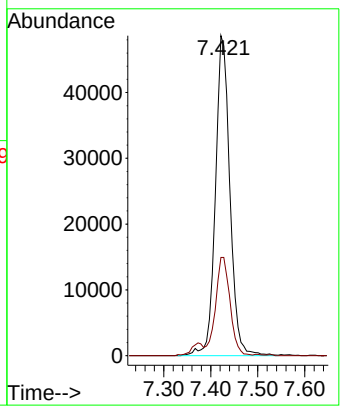


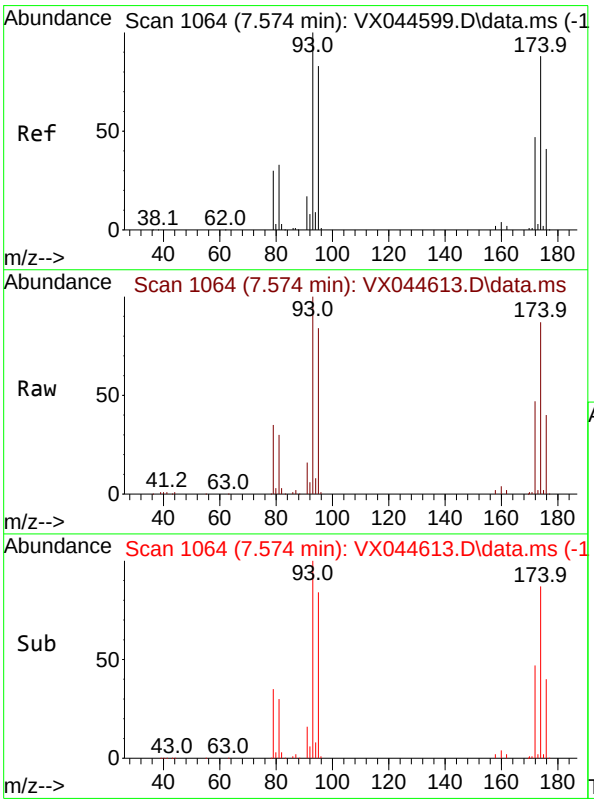
#45
1,2-Dichloropropane
Concen: 51.880 ug/l
RT: 7.421 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 63 Resp: 104468

Ion	Ratio	Lower	Upper
63	100		
65	30.7	23.0	34.4

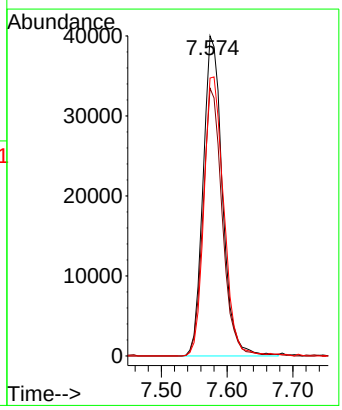


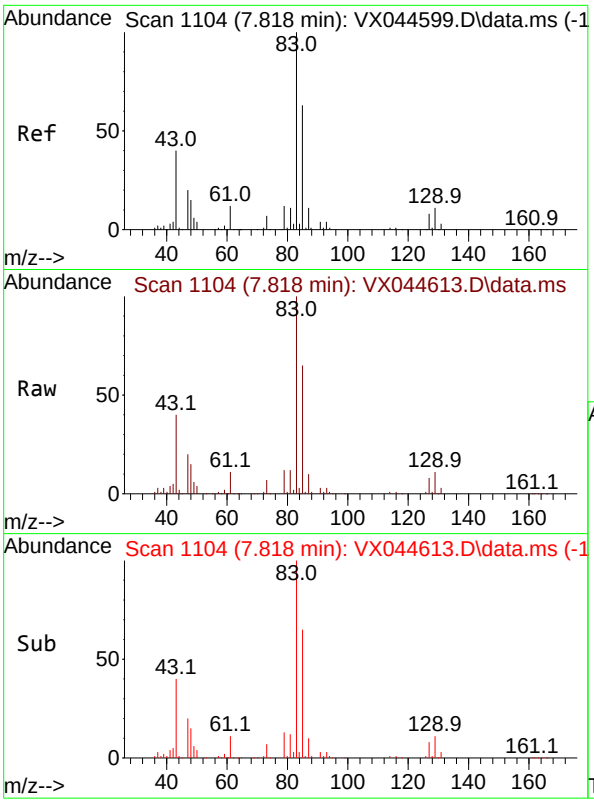


#46
Dibromomethane
Concen: 52.190 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 93 Resp: 81733

Ion	Ratio	Lower	Upper
93	100		
95	82.9	65.8	98.6
174	89.3	73.4	110.0



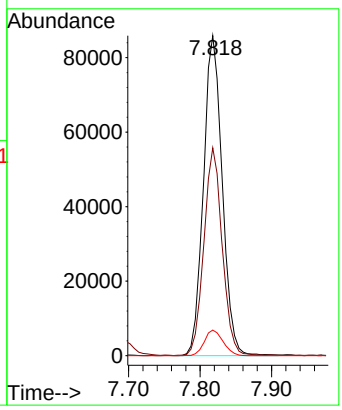


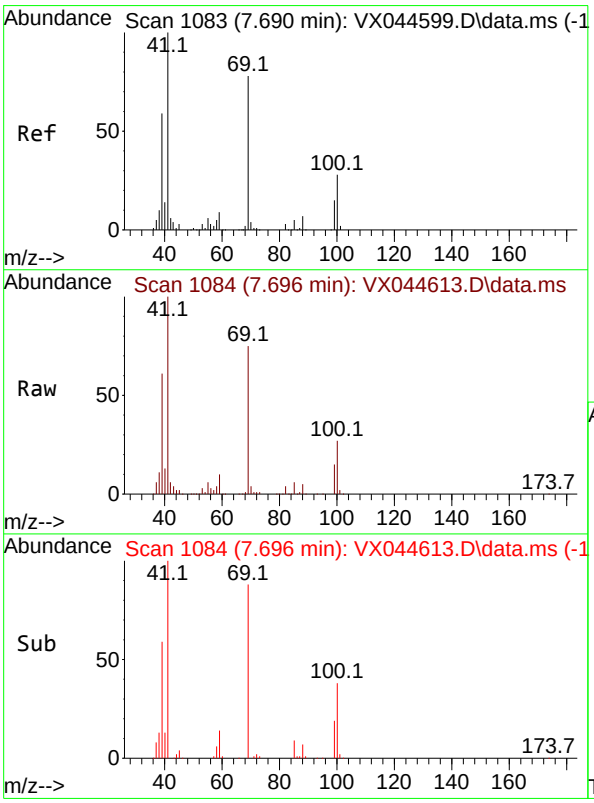
#47
Bromodichloromethane
Concen: 54.997 ug/l
RT: 7.818 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 156733

Ion	Ratio	Lower	Upper
83	100		
85	64.8	50.4	75.6
127	8.0	6.2	9.4

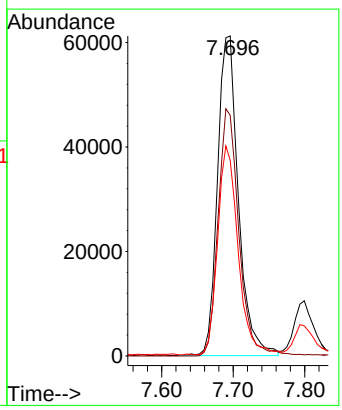


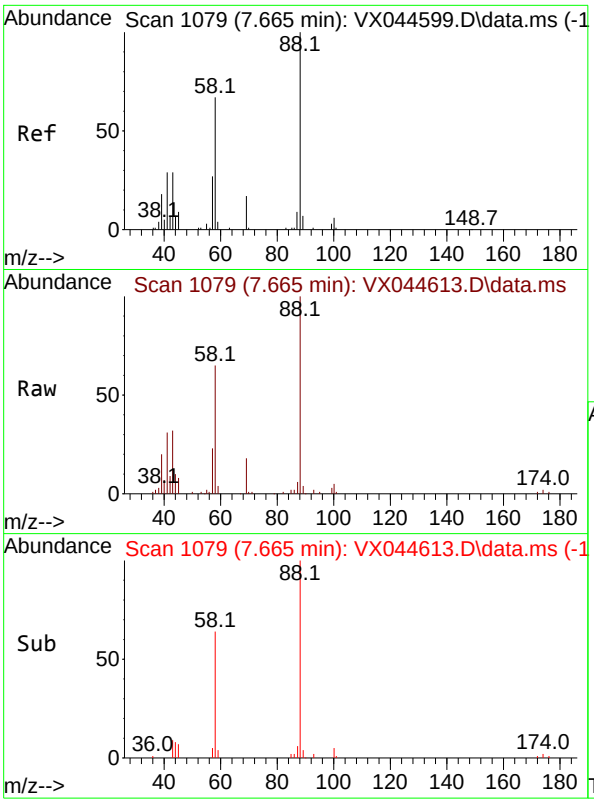


#48
Methyl methacrylate
Concen: 58.879 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. 0.006 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 41 Resp: 124321

Ion	Ratio	Lower	Upper
41	100		
69	77.2	62.9	94.3
39	64.0	48.9	73.3



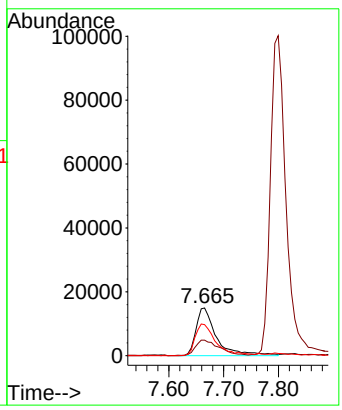


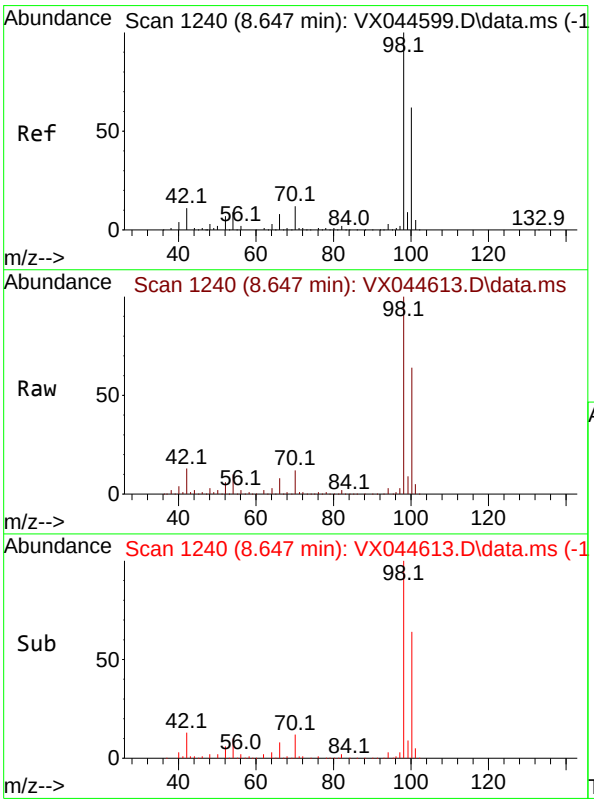
#49
1,4-Dioxane
Concen: 1249.198 ug/l
RT: 7.665 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 88 Resp: 38760

Ion	Ratio	Lower	Upper
88	100		
43	37.0	29.5	44.3
58	67.3	56.3	84.5

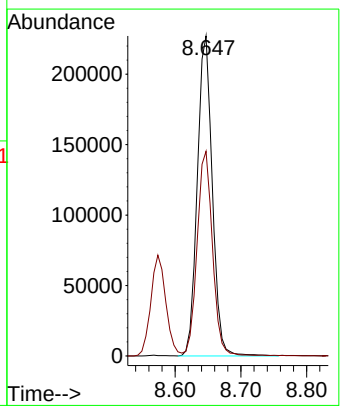


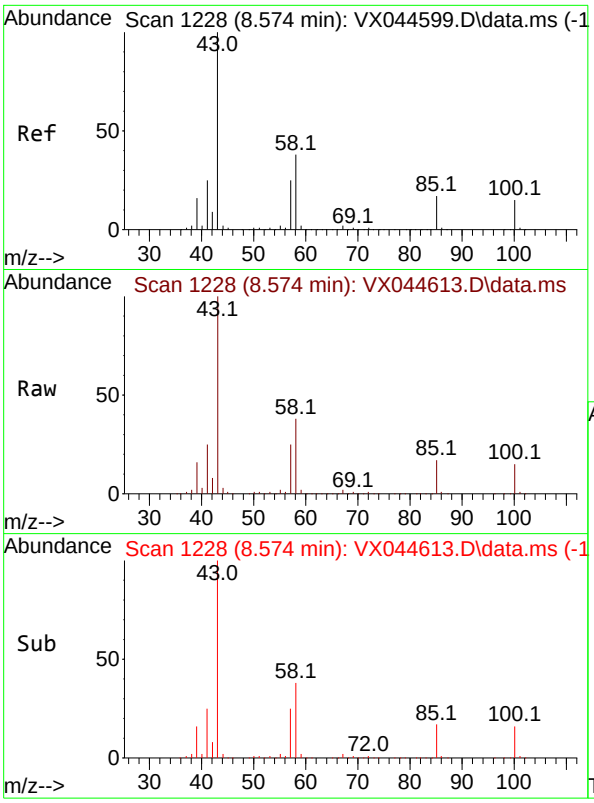


#50
Toluene-d8
Concen: 51.967 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 98 Resp: 360090

Ion	Ratio	Lower	Upper
98	100		
100	65.2	52.5	78.7



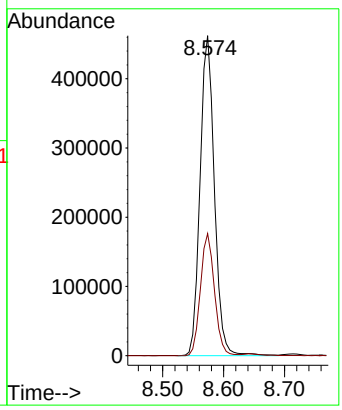


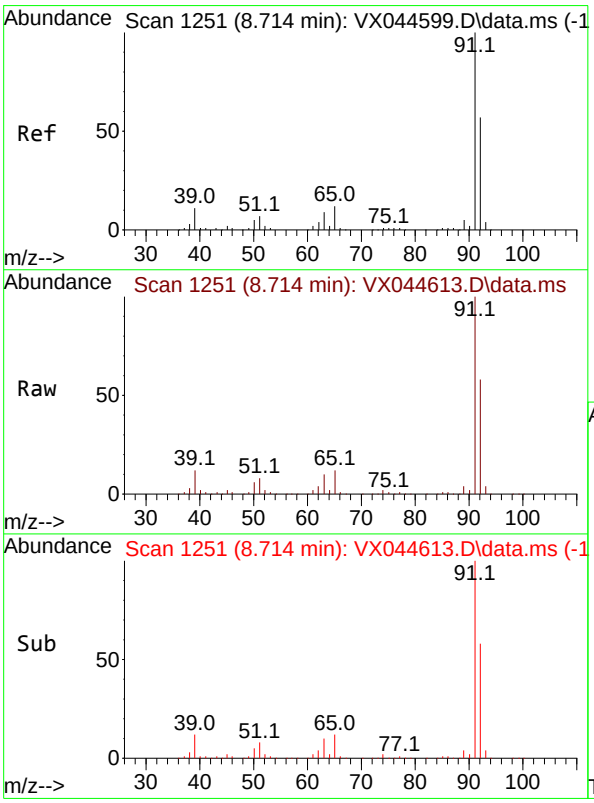
#51
4-Methyl-2-Pentanone
Concen: 292.284 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 756374

Ion	Ratio	Lower	Upper
43	100		
58	37.4	30.0	45.0

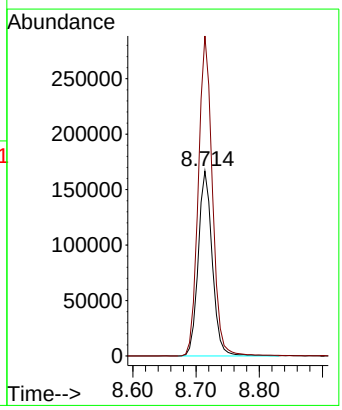


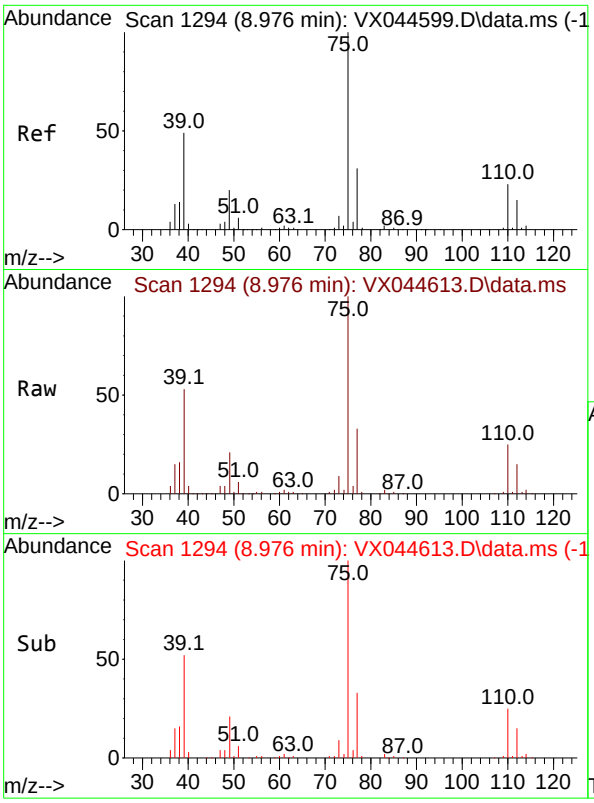


#52
Toluene
Concen: 51.653 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 92 Resp: 257402

Ion	Ratio	Lower	Upper
92	100		
91	173.7	140.6	210.8



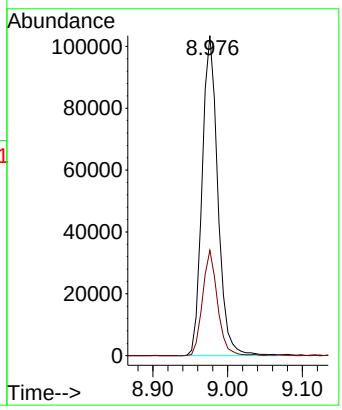


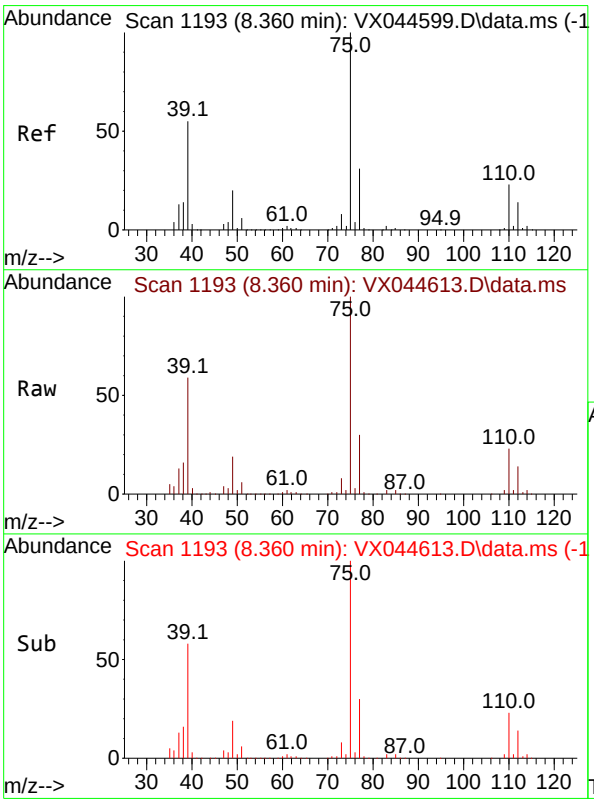
#53
t-1,3-Dichloropropene
Concen: 55.515 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 75 Resp: 151224

Ion	Ratio	Lower	Upper
75	100		
77	32.9	24.8	37.2

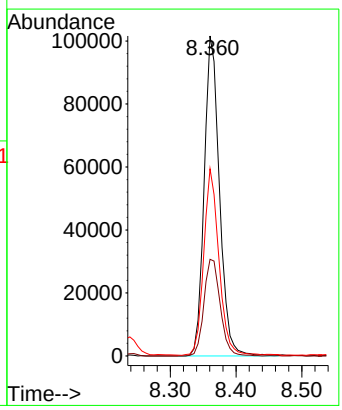


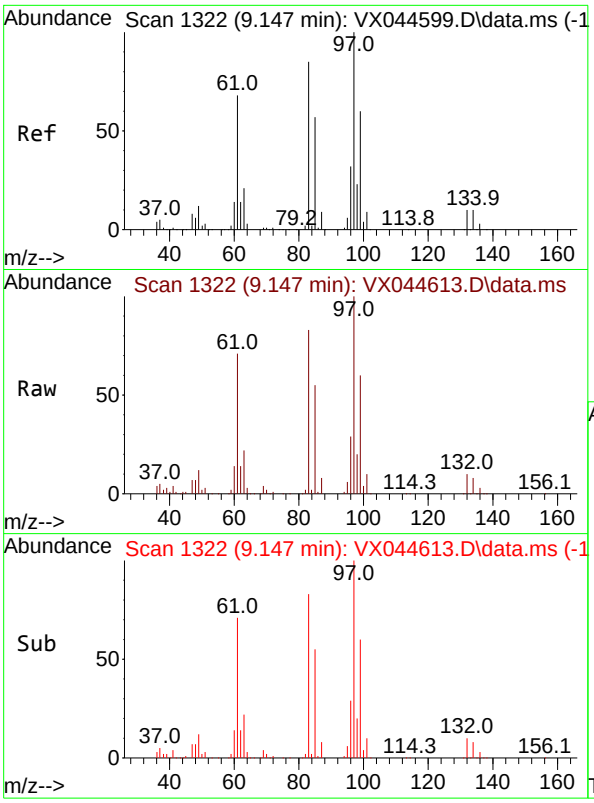


#54
cis-1,3-Dichloropropene
Concen: 53.656 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 75 Resp: 164267

Ion	Ratio	Lower	Upper
75	100		
77	30.2	24.5	36.7
39	58.3	44.3	66.5



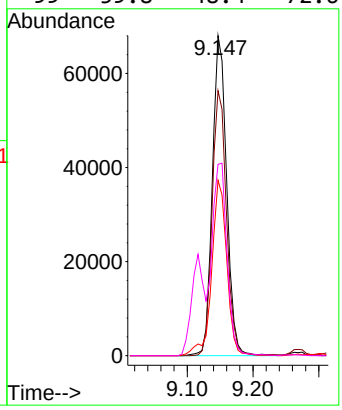


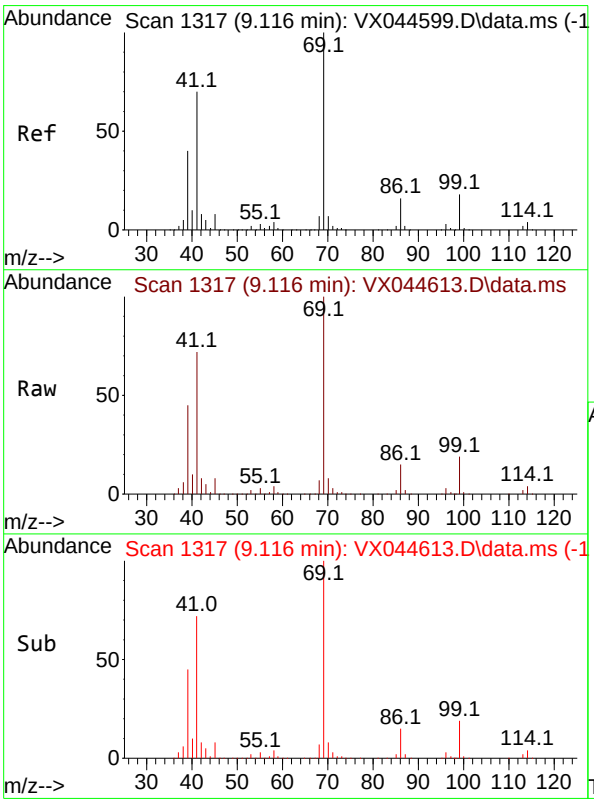
#55
1,1,2-Trichloroethane
Concen: 52.771 ug/l
RT: 9.147 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 97 Resp: 103095

Ion	Ratio	Lower	Upper
97	100		
83	82.8	68.0	102.0
85	54.8	45.4	68.0
99	59.8	48.4	72.6

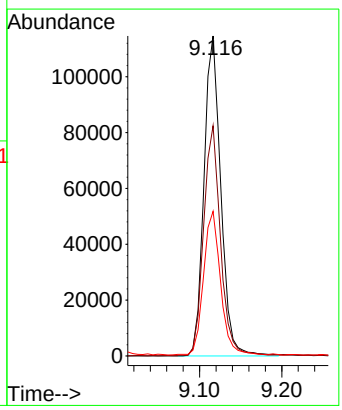


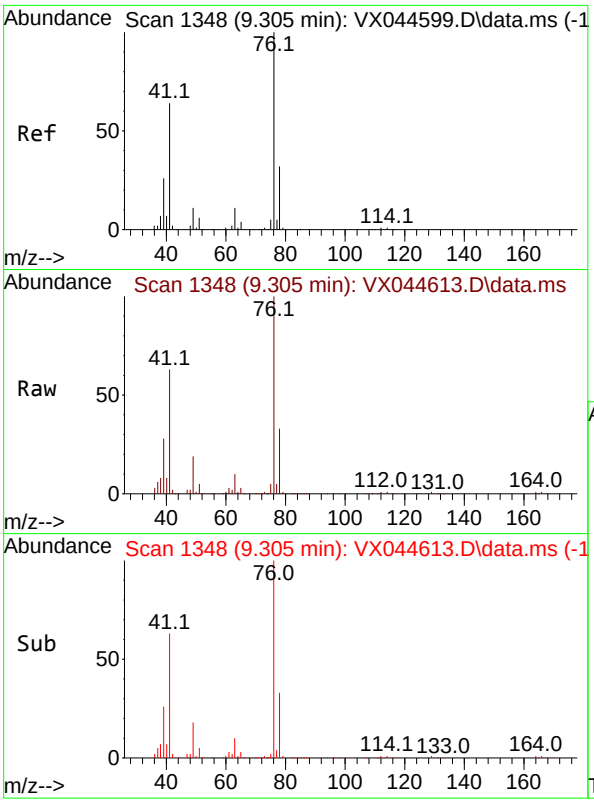


#56
Ethyl methacrylate
Concen: 57.469 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 69 Resp: 163278

Ion	Ratio	Lower	Upper
69	100		
41	72.0	57.7	86.5
39	45.4	33.7	50.5



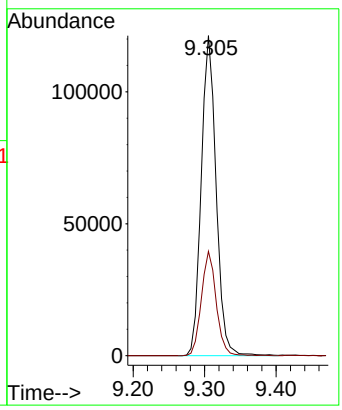


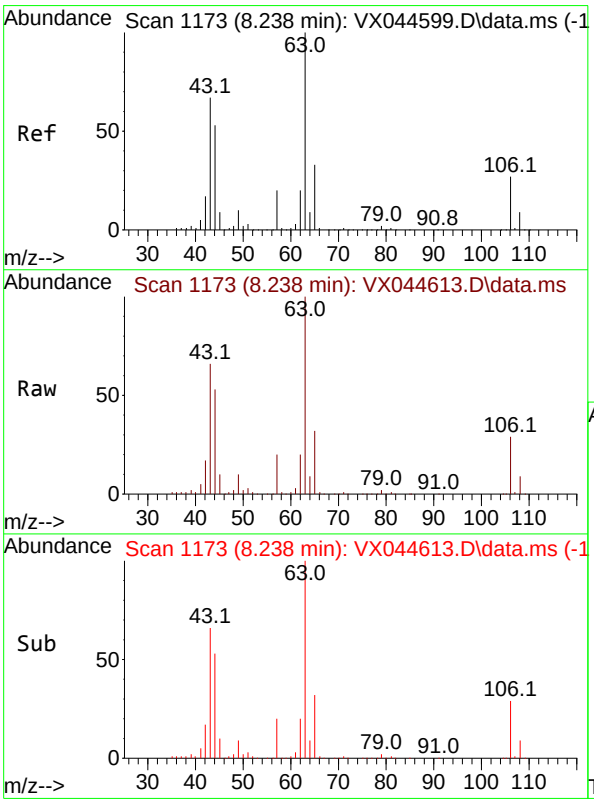
#57
1,3-Dichloropropane
Concen: 53.383 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 76 Resp: 175128

Ion	Ratio	Lower	Upper
76	100		
78	32.5	25.8	38.8

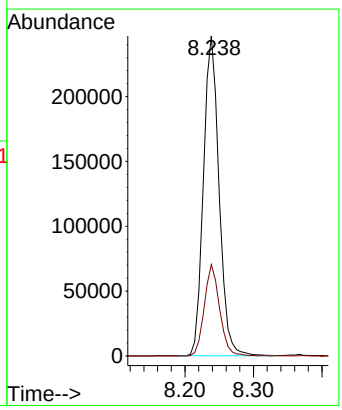


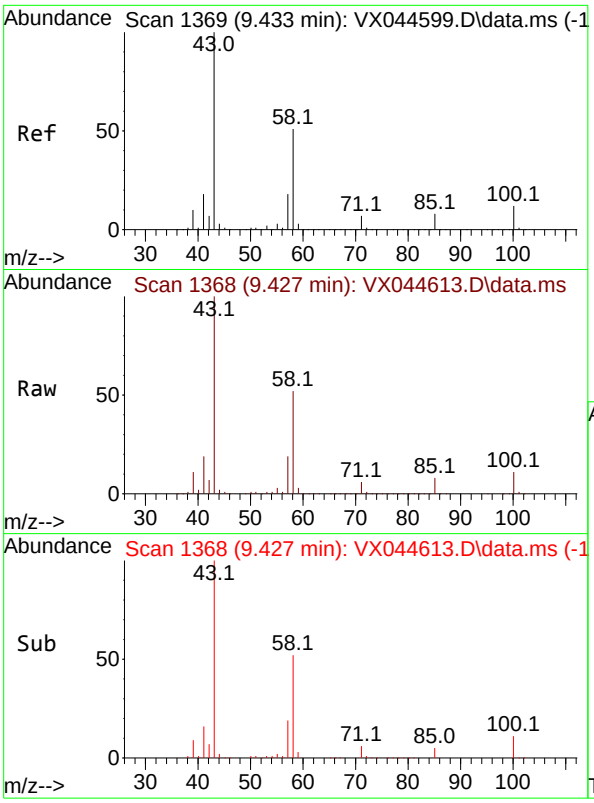


#58
2-Chloroethyl Vinyl ether
Concen: 278.235 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 63 Resp: 391895

Ion	Ratio	Lower	Upper
63	100		
106	28.0	22.4	33.6



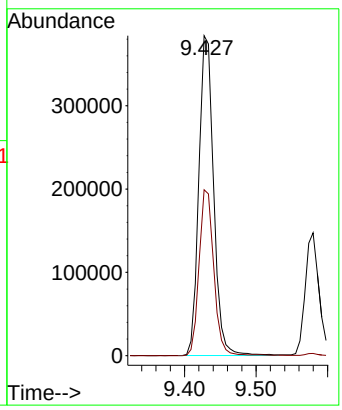


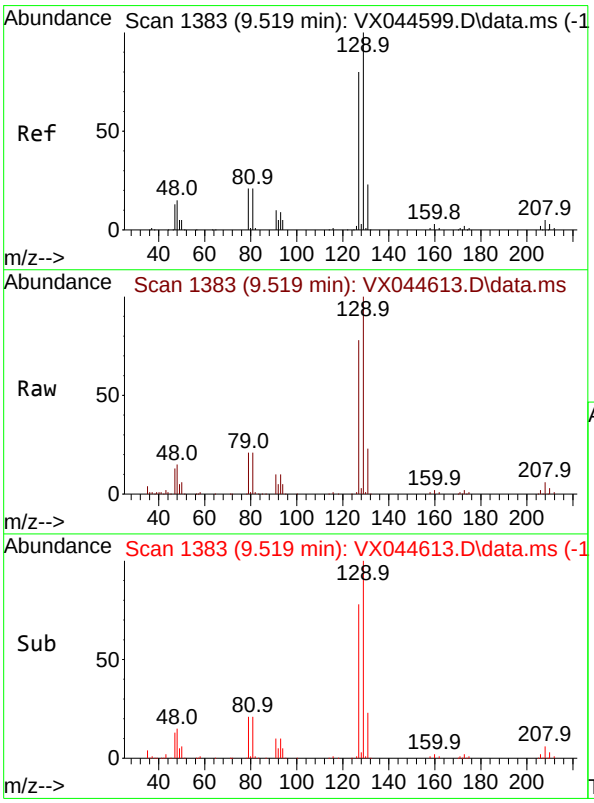
#59
2-Hexanone
Concen: 302.247 ug/l
RT: 9.427 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 553155

Ion	Ratio	Lower	Upper
43	100		
58	51.5	25.4	76.4

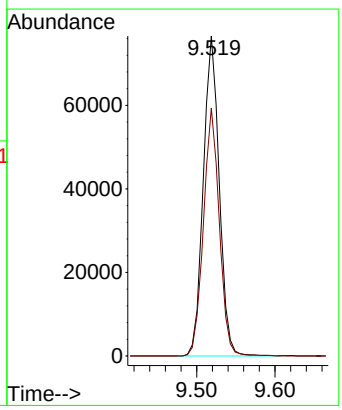


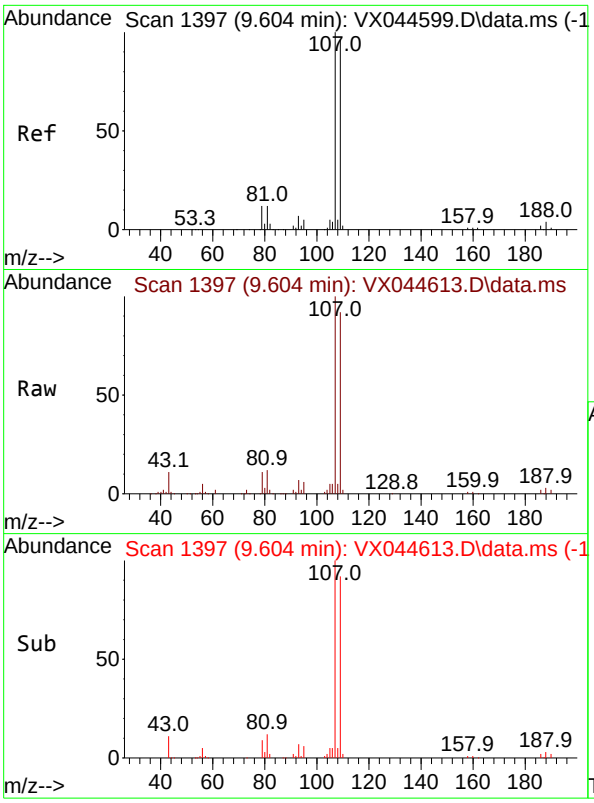


#60
Dibromochloromethane
Concen: 55.427 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion:129 Resp: 107971

Ion	Ratio	Lower	Upper
129	100		
127	77.0	38.9	116.7



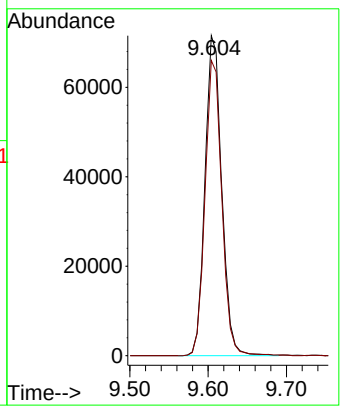


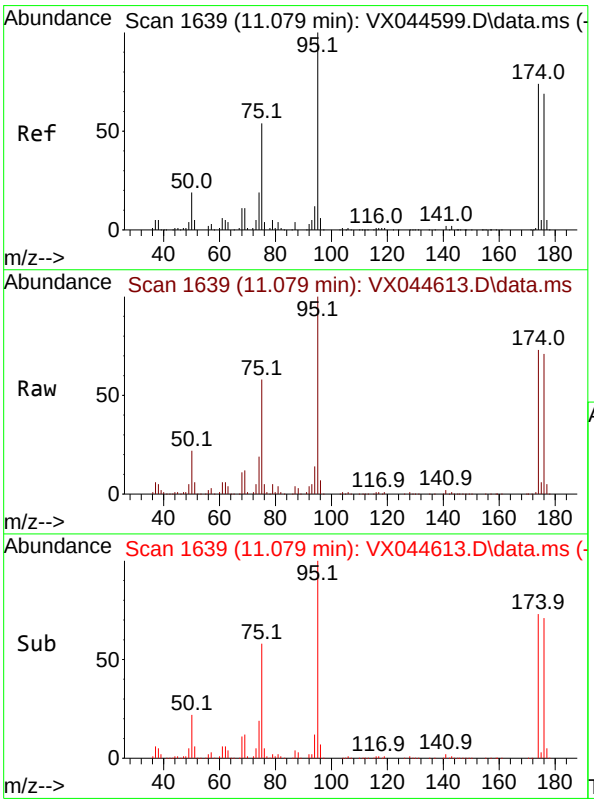
#61
1,2-Dibromoethane
Concen: 53.635 ug/l
RT: 9.604 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:107 Resp: 105825

Ion	Ratio	Lower	Upper
107	100		
109	92.7	76.7	115.1

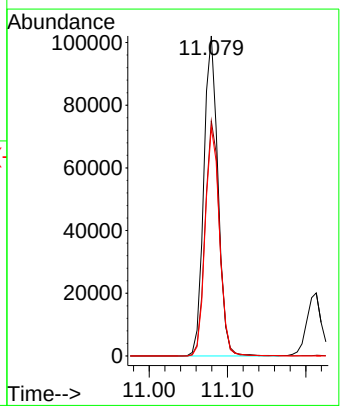


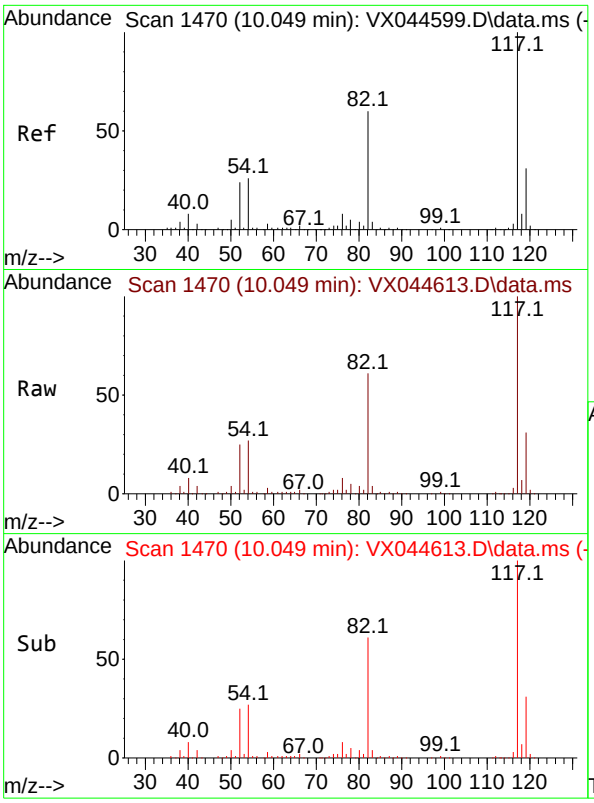


#62
4-Bromofluorobenzene
Concen: 52.415 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 95 Resp: 128195

Ion	Ratio	Lower	Upper
95	100		
174	74.0	0.0	148.8
176	71.8	0.0	139.8



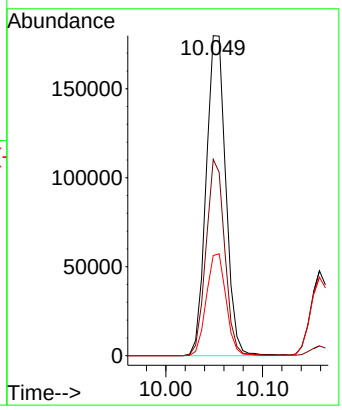


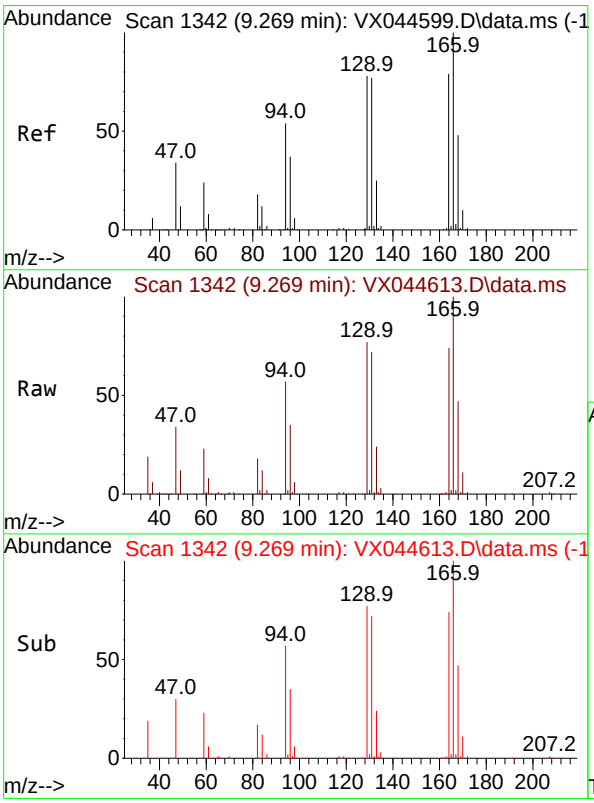
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:117 Resp: 253685

Ion	Ratio	Lower	Upper
117	100		
82	61.3	47.8	71.6
119	31.3	25.0	37.6

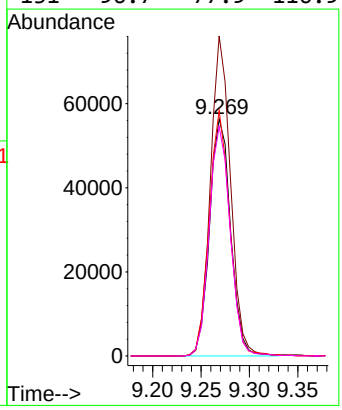


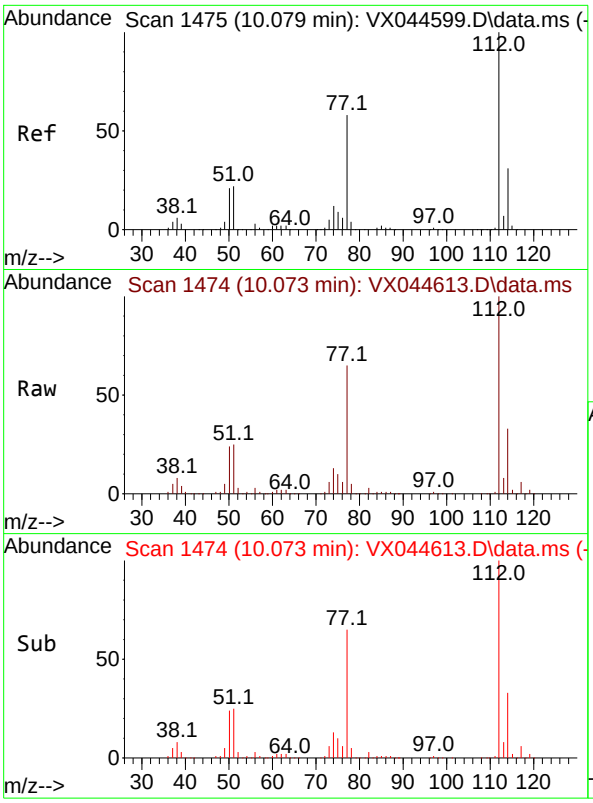


#64
Tetrachloroethene
Concen: 47.587 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion:164 Resp: 85353

Ion	Ratio	Lower	Upper
164	100		
166	135.0	101.5	152.3
129	103.5	78.9	118.3
131	96.7	77.9	116.9



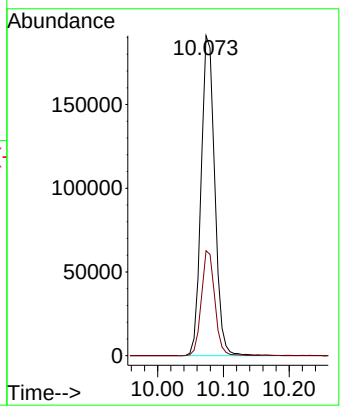


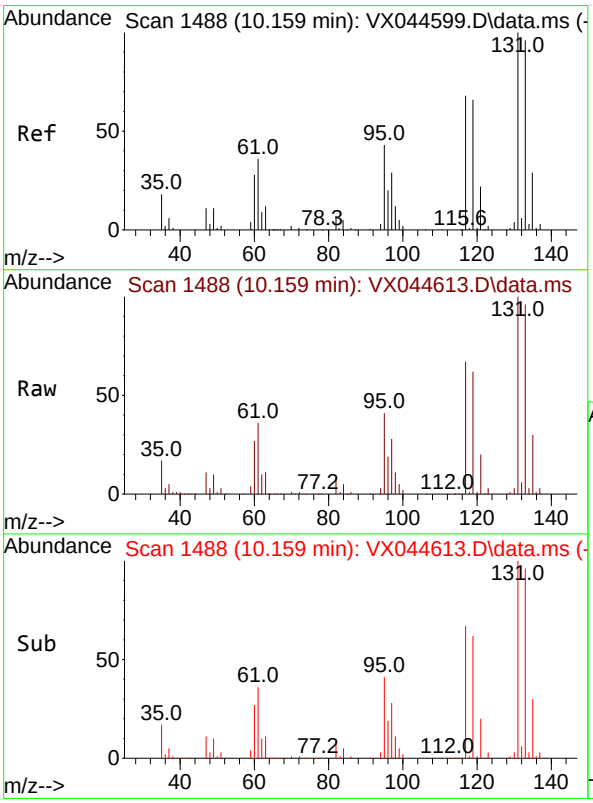
#65
Chlorobenzene
Concen: 51.238 ug/l
RT: 10.073 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:112 Resp: 275873

Ion	Ratio	Lower	Upper
112	100		
114	32.8	25.0	37.4

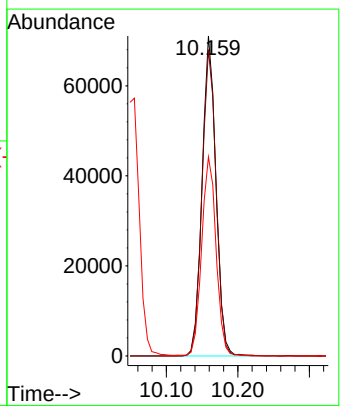


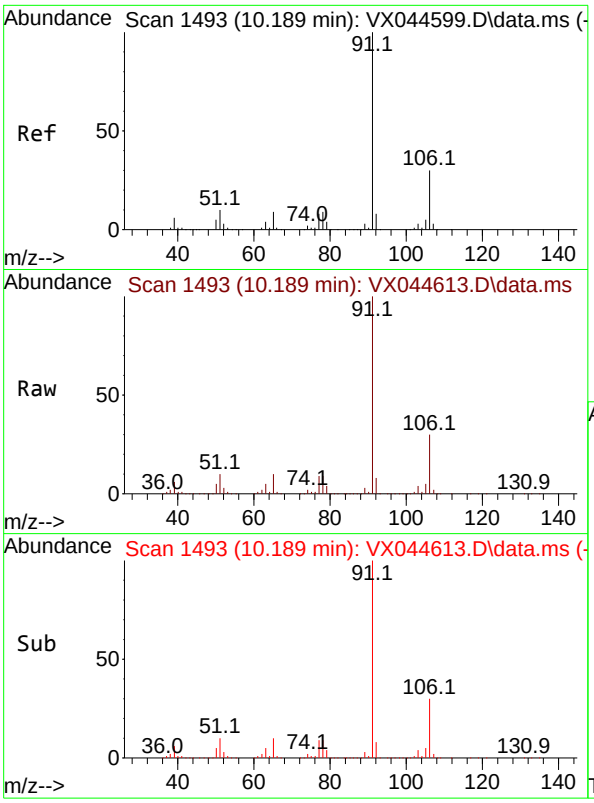


#66
1,1,1,2-Tetrachloroethane
Concen: 53.429 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion:131 Resp: 95543

Ion	Ratio	Lower	Upper
131	100		
133	97.6	48.0	144.0
119	64.7	32.8	98.4



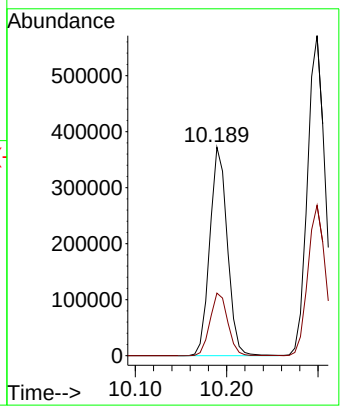


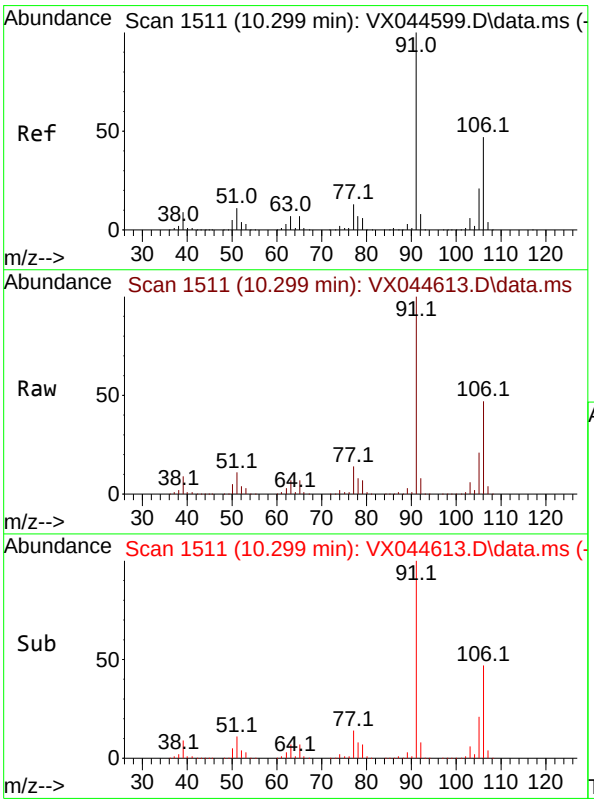
#67
Ethyl Benzene
Concen: 53.443 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 494122

Ion	Ratio	Lower	Upper
91	100		
106	30.0	23.8	35.8

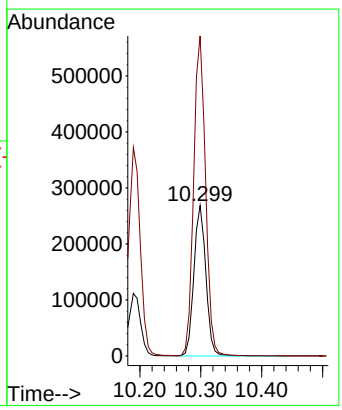


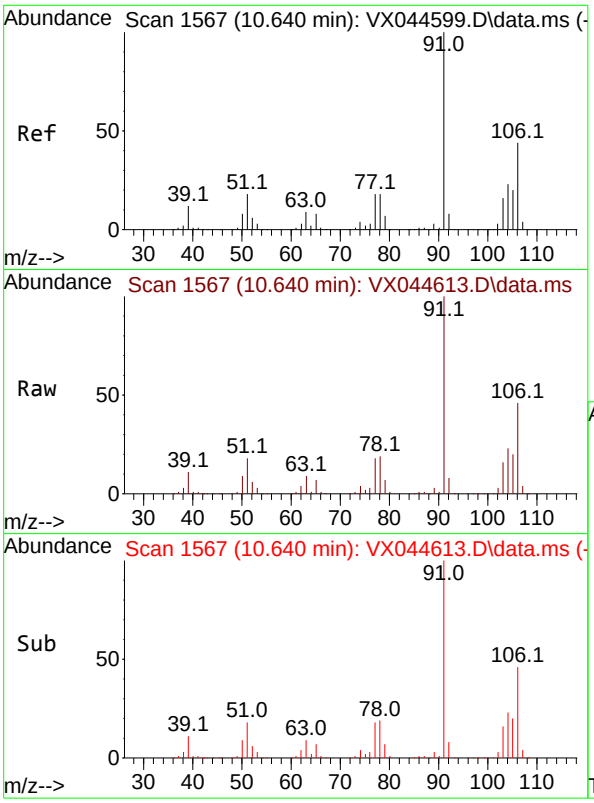


#68
m/p-Xylenes
Concen: 107.604 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion:106 Resp: 365584

Ion	Ratio	Lower	Upper
106	100		
91	211.7	170.4	255.6



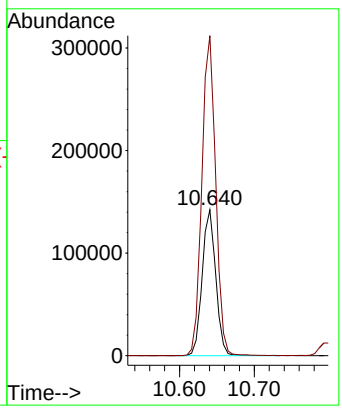


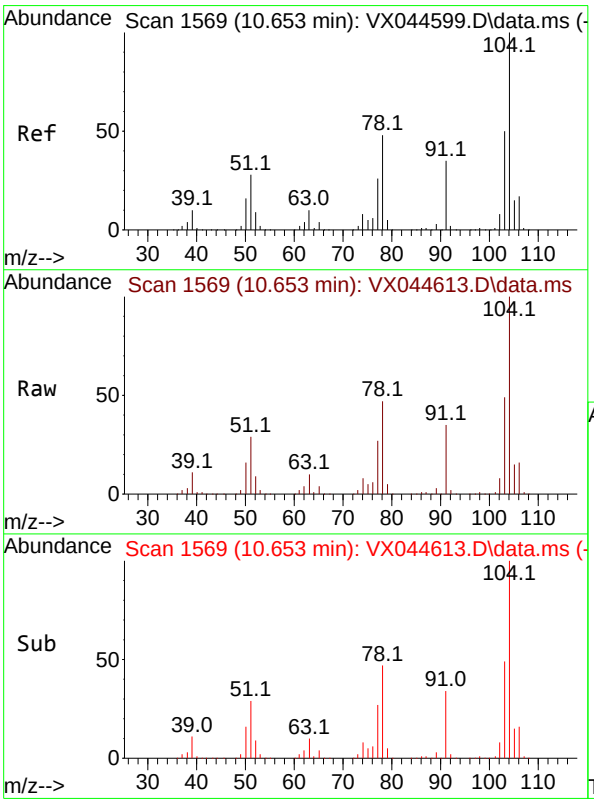
#69
o-Xylene
Concen: 52.289 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:106 Resp: 179313

Ion	Ratio	Lower	Upper
106	100		
91	223.1	112.3	336.8

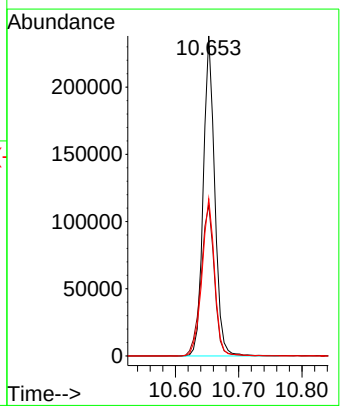


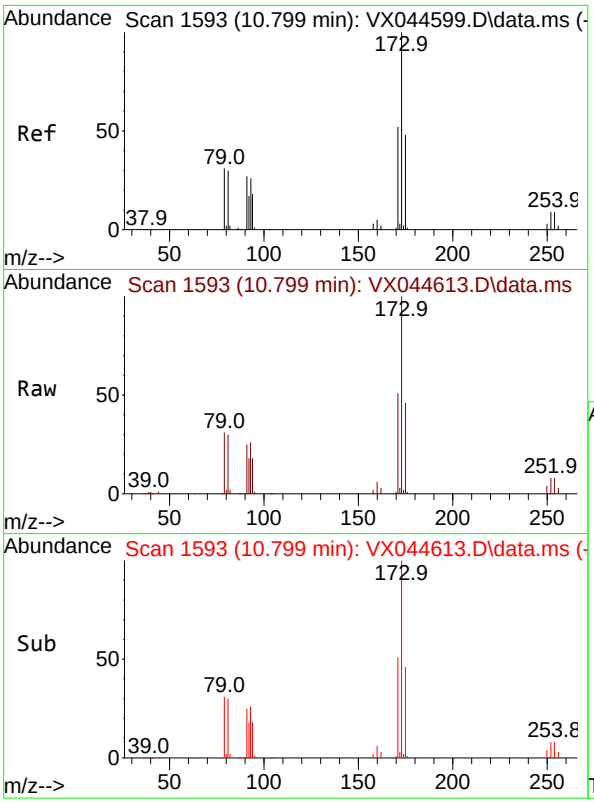


#70
Styrene
Concen: 54.813 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion:104 Resp: 300652

Ion	Ratio	Lower	Upper
104	100		
78	55.0	44.0	66.0
103	54.3	43.8	65.6



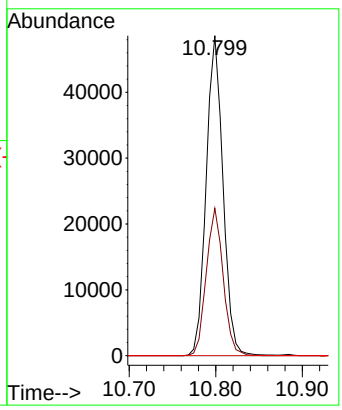


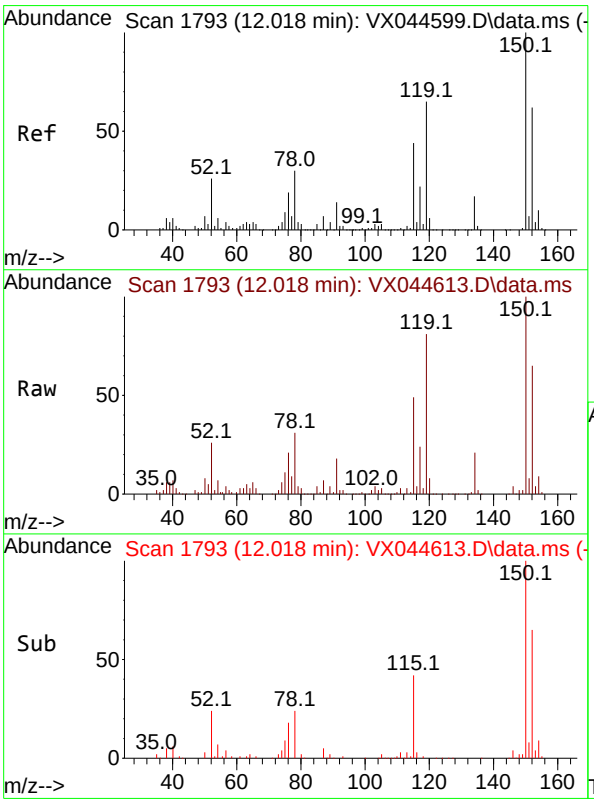
#71
Bromoform
Concen: 52.026 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:173 Resp: 65460

Ion	Ratio	Lower	Upper
173	100		
175	46.5	24.6	73.8
254	0.0	0.0	0.0

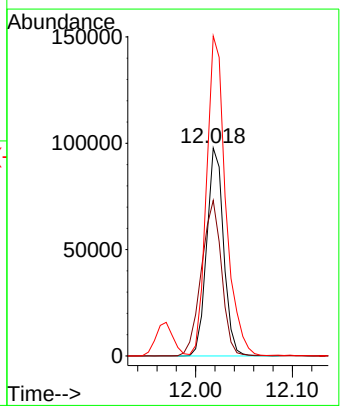


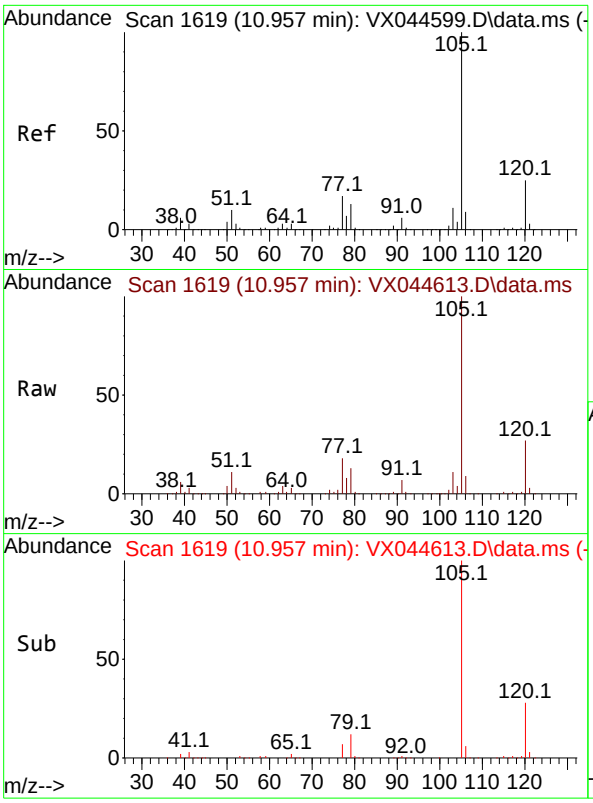


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion:152 Resp: 118886

Ion	Ratio	Lower	Upper
152	100		
115	89.6	44.4	133.1
150	173.3	0.0	355.0



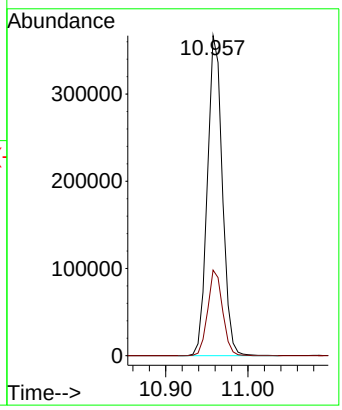


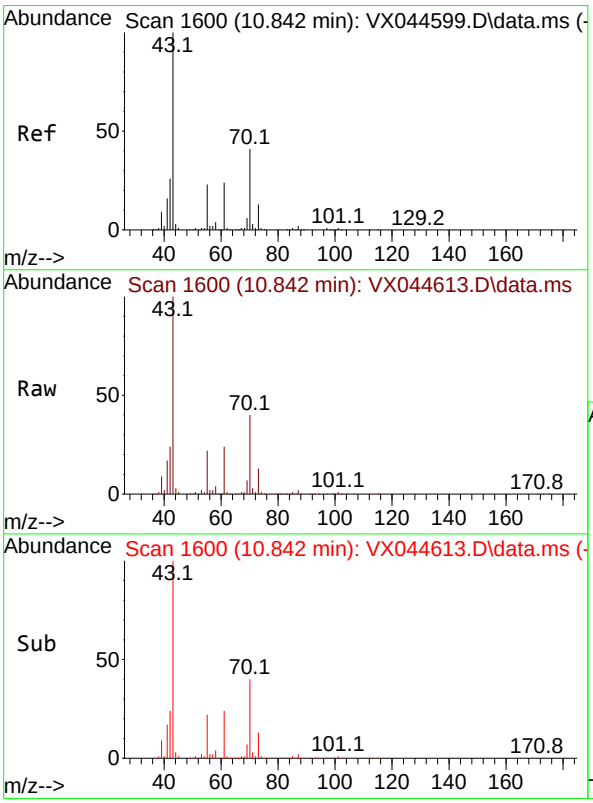
#73
Isopropylbenzene
Concen: 52.618 ug/l
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:105 Resp: 463455

Ion	Ratio	Lower	Upper
105	100		
120	26.6	13.0	38.9

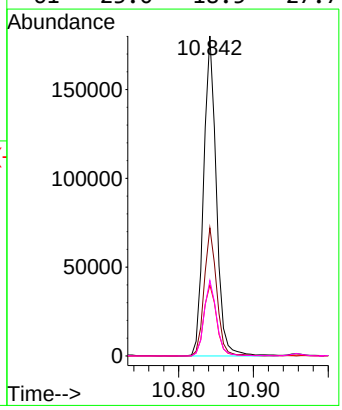


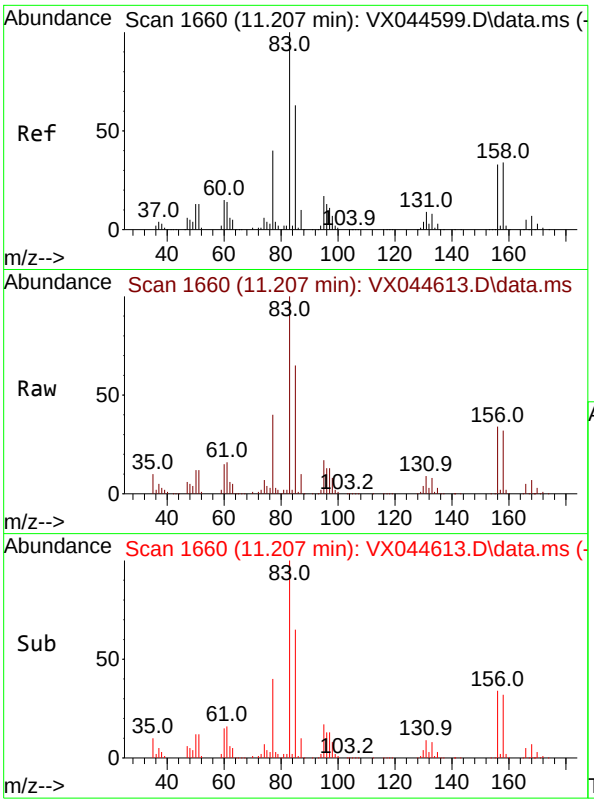


#74
N-amyl acetate
Concen: 59.395 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 43 Resp: 212270

Ion	Ratio	Lower	Upper
43	100		
70	39.5	32.9	49.3
55	22.6	19.0	28.6
61	23.0	18.5	27.7



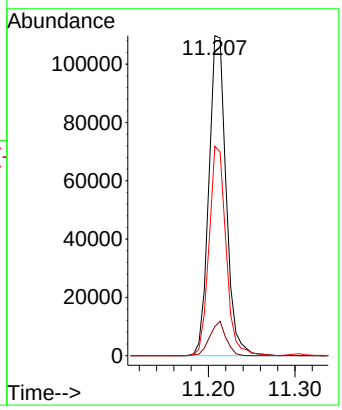


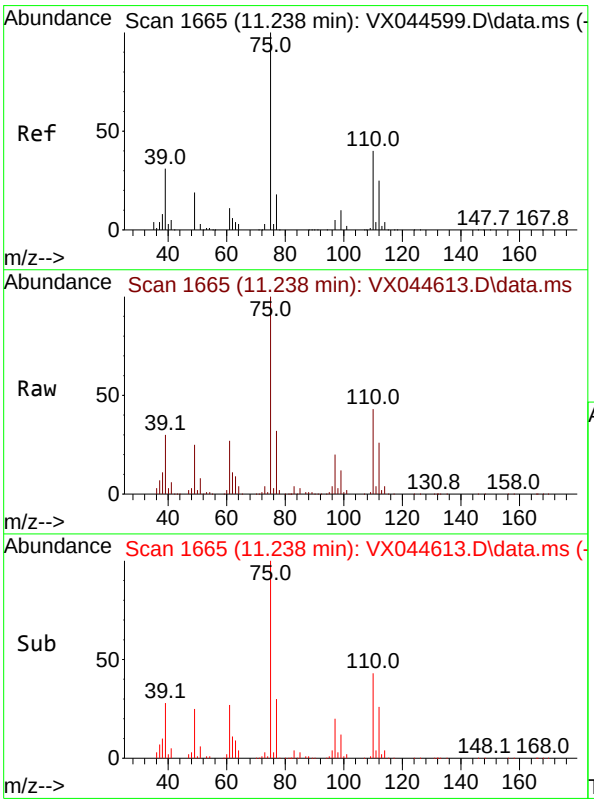
#75
1,1,2,2-Tetrachloroethane
Concen: 53.439 ug/l
RT: 11.207 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 151715

Ion	Ratio	Lower	Upper
83	100		
131	10.2	5.0	15.0
85	64.4	31.9	95.5

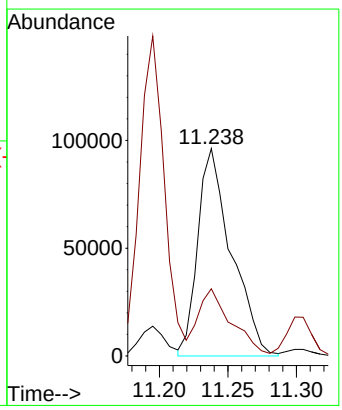


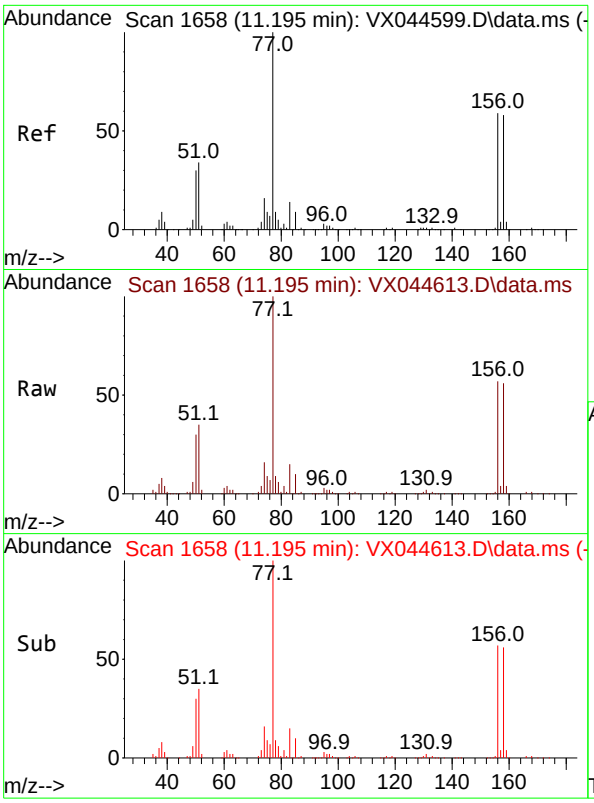


#76
1,2,3-Trichloropropane
Concen: 69.109 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 75 Resp: 164701

Ion	Ratio	Lower	Upper
75	100		
77	32.0	21.1	63.1



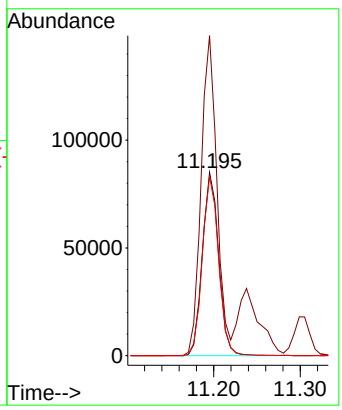


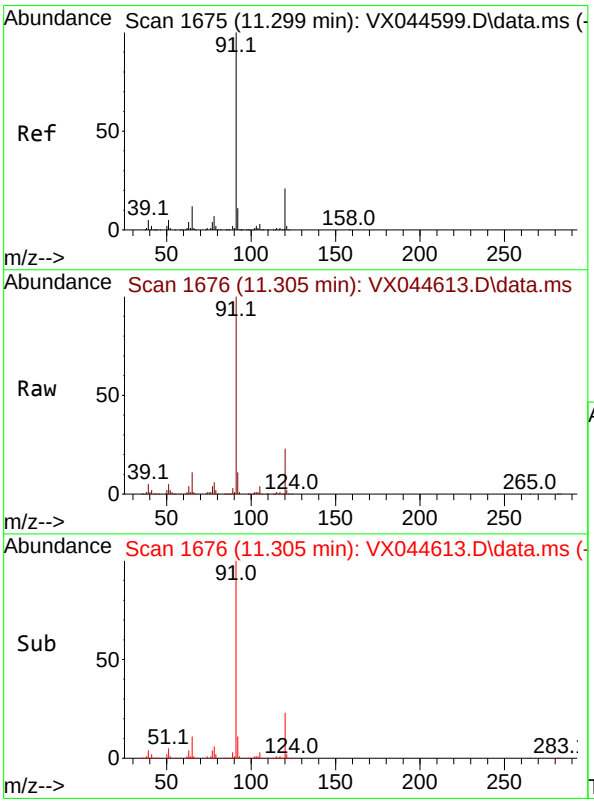
#77
Bromobenzene
Concen: 51.994 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:156 Resp: 111248

Ion	Ratio	Lower	Upper
156	100		
77	168.9	85.7	257.1
158	97.4	49.9	149.6

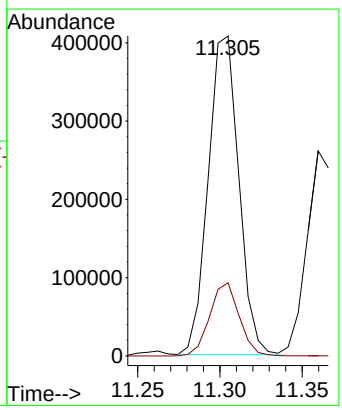


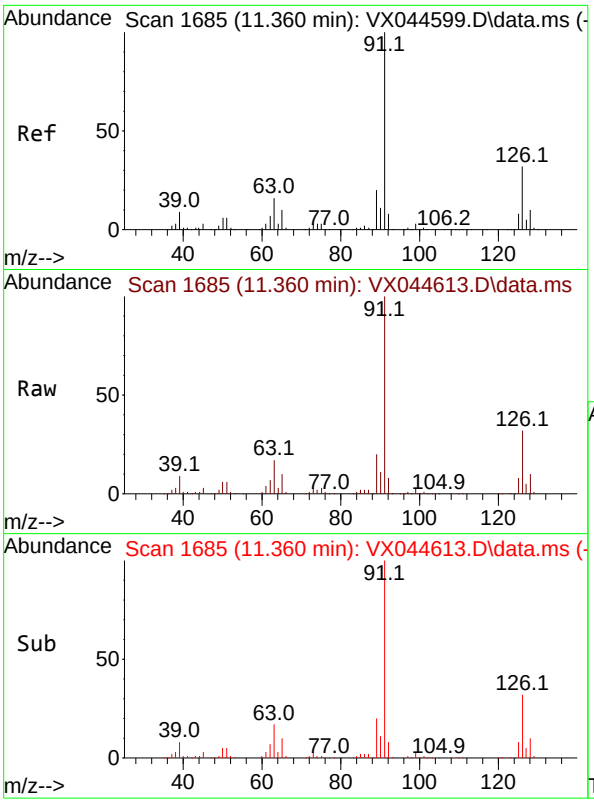


#78
n-propylbenzene
Concen: 53.141 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.006 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 91 Resp: 527200

Ion	Ratio	Lower	Upper
91	100		
120	22.2	11.2	33.5



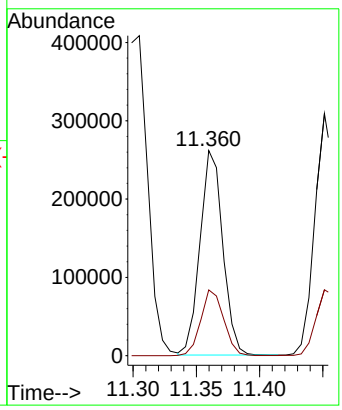


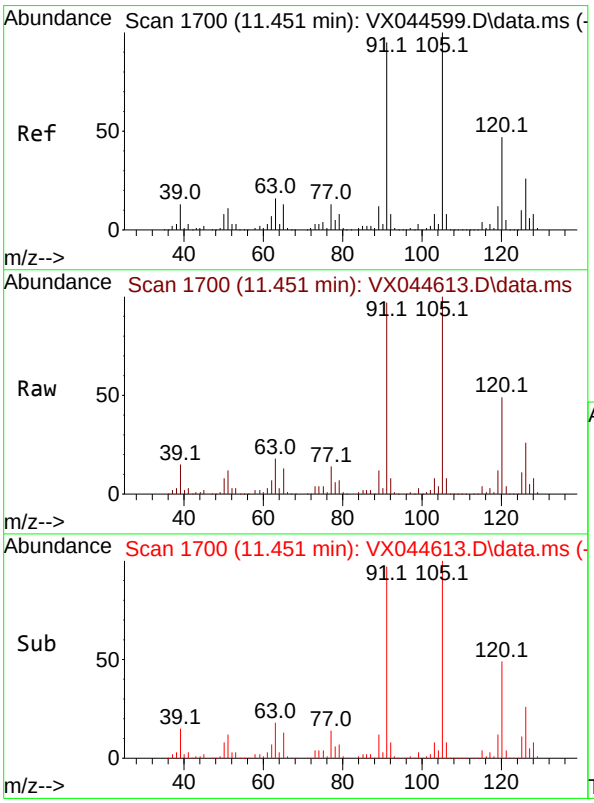
#79
2-Chlorotoluene
Concen: 50.916 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 327328

Ion	Ratio	Lower	Upper
91	100		
126	32.4	16.4	49.2

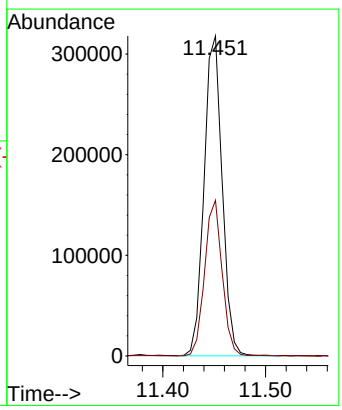


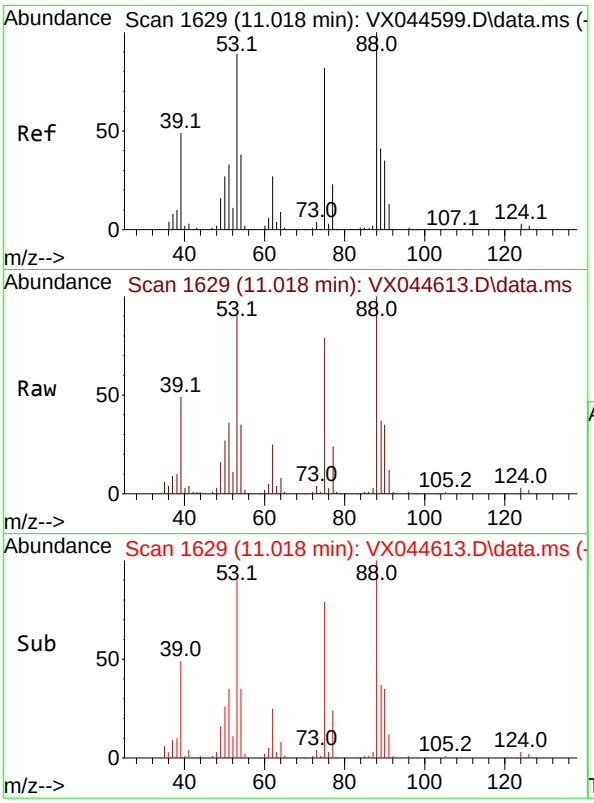


#80
1,3,5-Trimethylbenzene
Concen: 53.347 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion:105 Resp: 389590

Ion	Ratio	Lower	Upper
105	100		
120	47.1	23.5	70.5



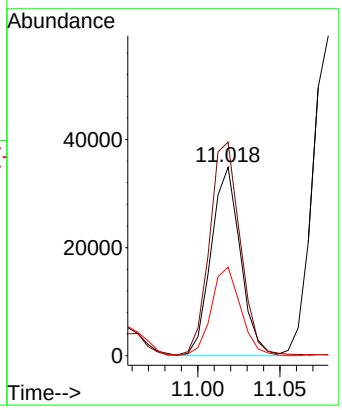


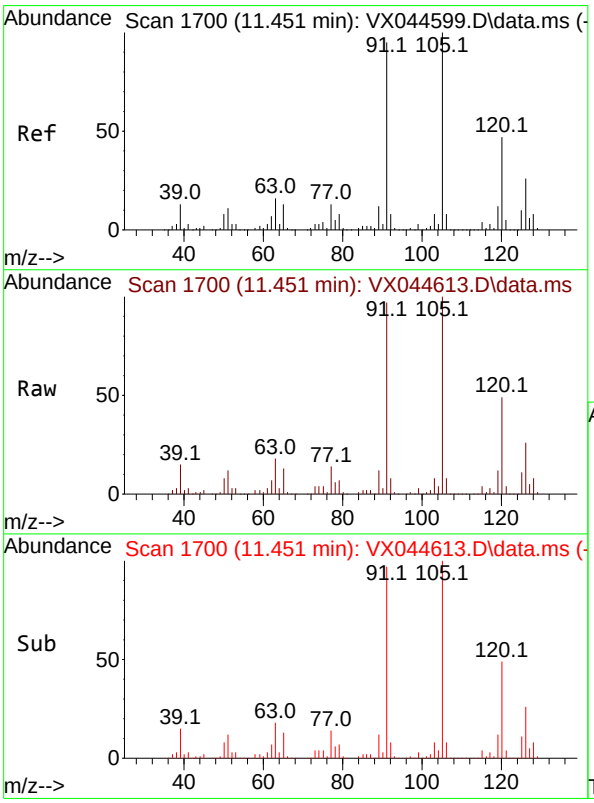
#81
trans-1,4-Dichloro-2-butene
Concen: 55.176 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 75 Resp: 43198

Ion	Ratio	Lower	Upper
75	100		
53	118.4	92.7	139.1
89	47.0	38.3	57.5

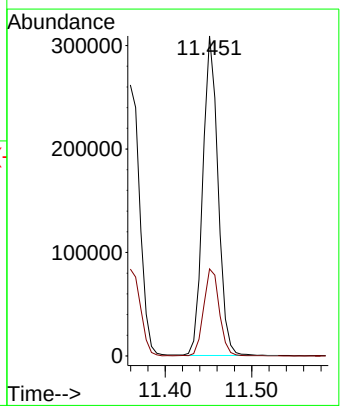


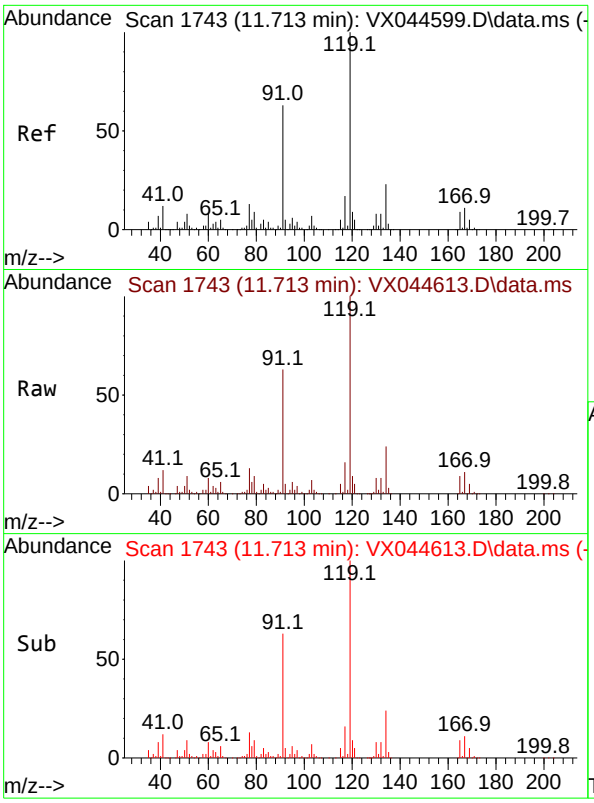


#82
4-Chlorotoluene
Concen: 52.030 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 91 Resp: 376292

Ion	Ratio	Lower	Upper
91	100		
126	28.3	14.0	42.0



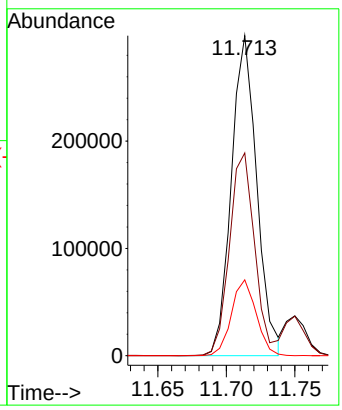


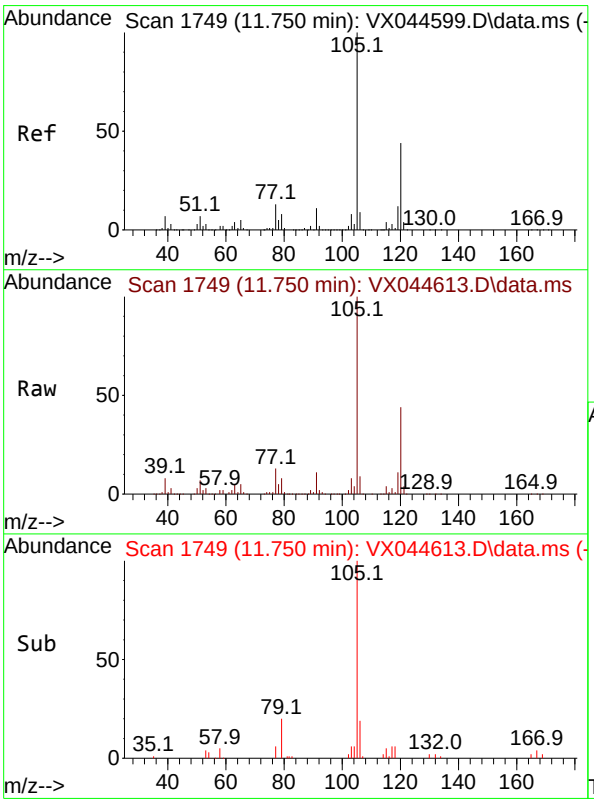
#83
tert-Butylbenzene
Concen: 53.037 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:119 Resp: 385674

Ion	Ratio	Lower	Upper
119	100		
91	62.1	30.9	92.8
134	23.1	11.7	35.0

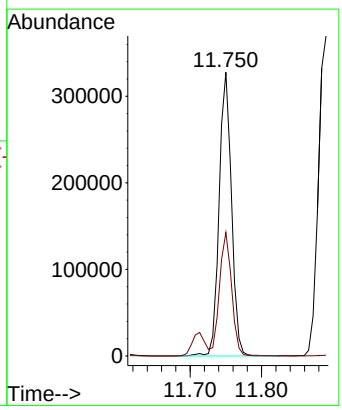


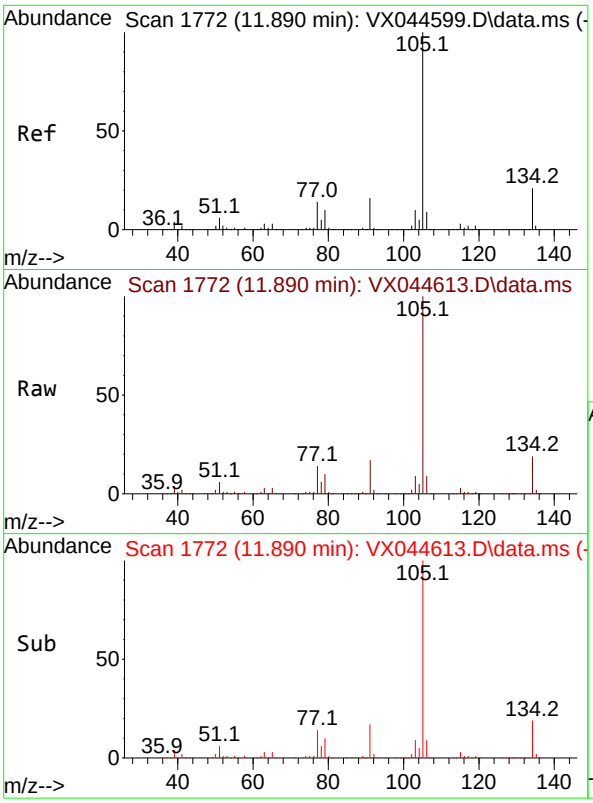


#84
1,2,4-Trimethylbenzene
Concen: 53.535 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion:105 Resp: 392732

Ion	Ratio	Lower	Upper
105	100		
120	42.7	21.9	65.7



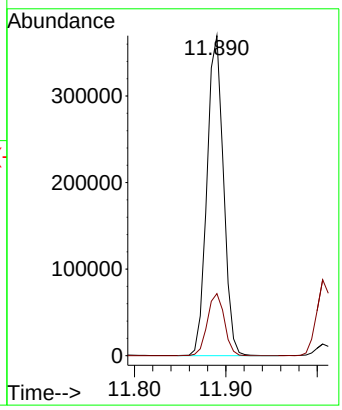


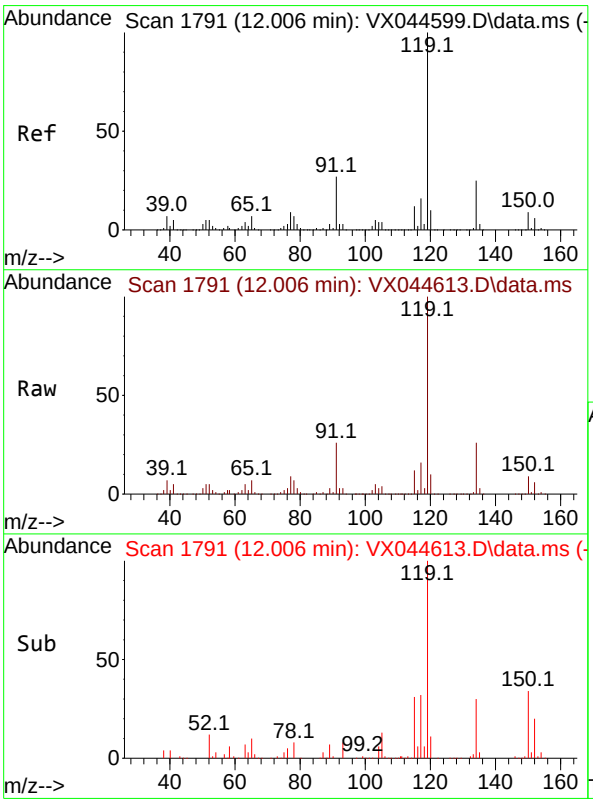
#85
sec-Butylbenzene
Concen: 52.250 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:105 Resp: 462731

Ion	Ratio	Lower	Upper
105	100		
134	20.0	9.9	29.7

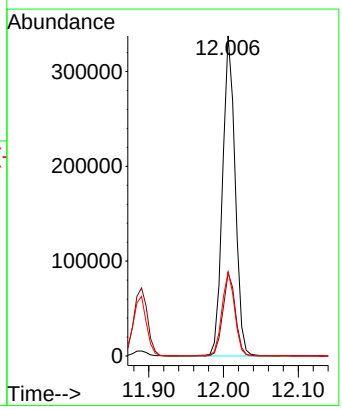


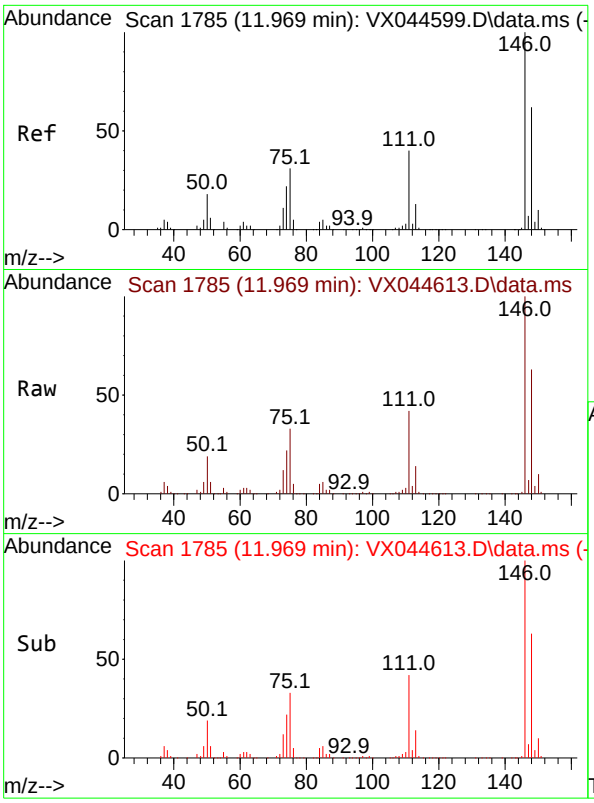


#86
p-Isopropyltoluene
Concen: 53.119 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion:119 Resp: 394724

Ion	Ratio	Lower	Upper
119	100		
134	25.7	12.6	37.8
91	26.3	13.1	39.1



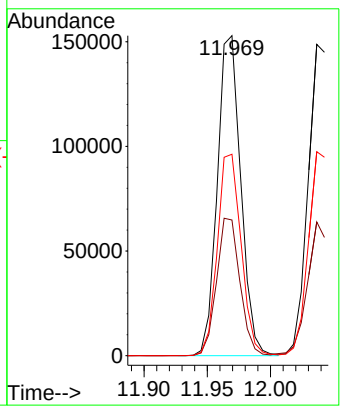


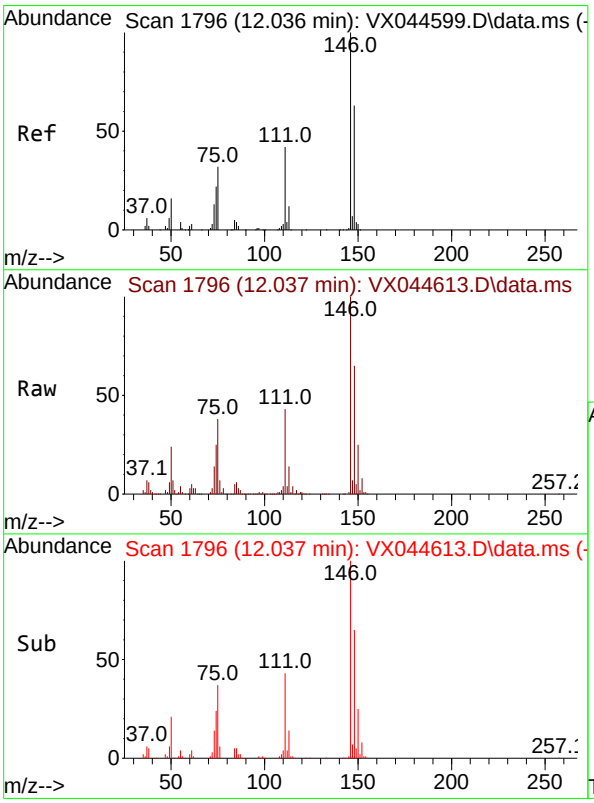
#87
1,3-Dichlorobenzene
Concen: 50.880 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:146 Resp: 196937

Ion	Ratio	Lower	Upper
146	100		
111	42.9	21.0	63.0
148	63.8	31.6	95.0

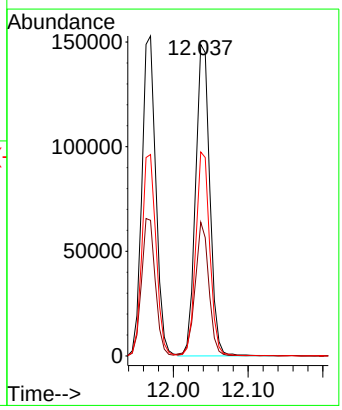


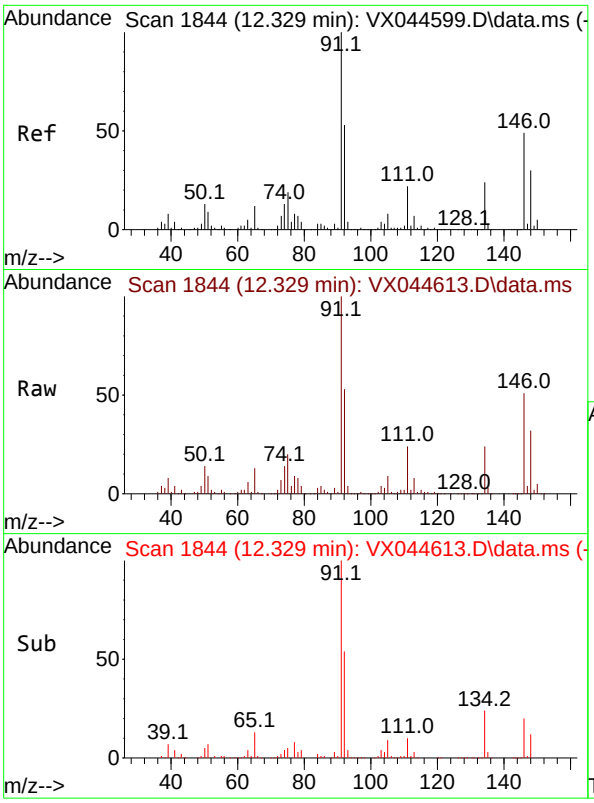


#88
1,4-Dichlorobenzene
Concen: 48.700 ug/l
RT: 12.037 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion:146 Resp: 196398

Ion	Ratio	Lower	Upper
146	100		
111	41.1	20.7	62.1
148	64.4	31.8	95.4



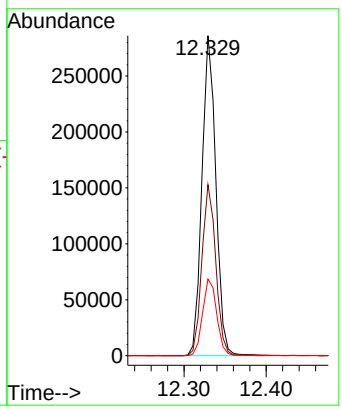


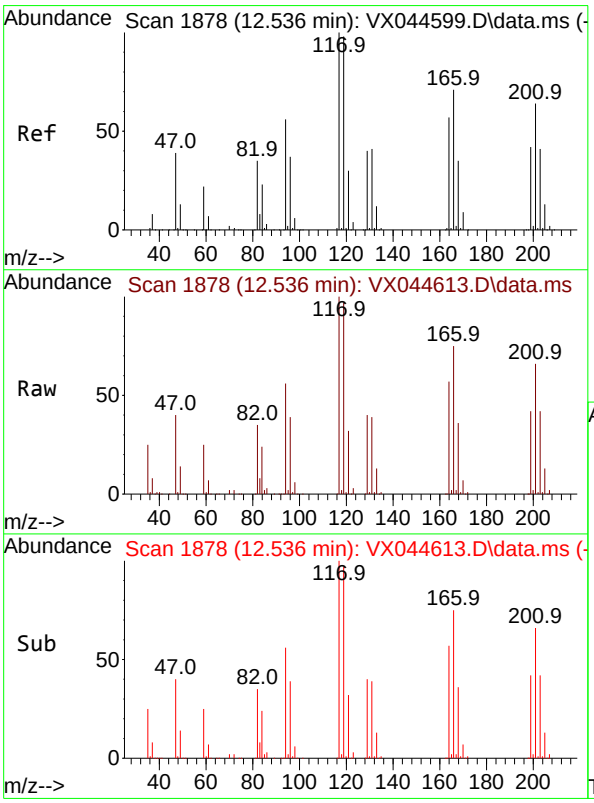
#89
n-Butylbenzene
Concen: 53.573 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 336155

Ion	Ratio	Lower	Upper
91	100		
92	53.5	26.5	79.4
134	24.4	12.4	37.2

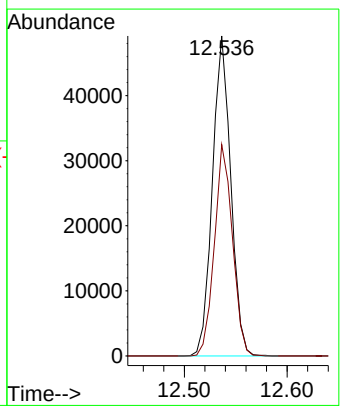


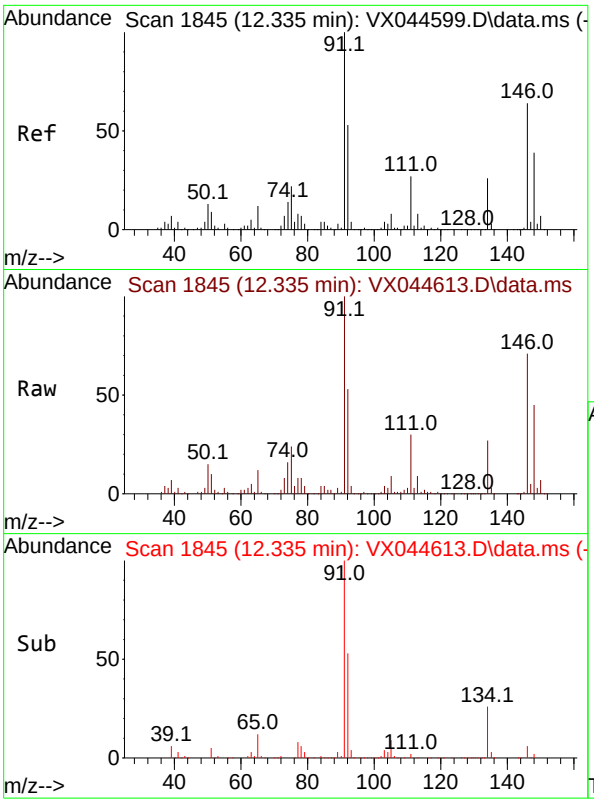


#90
Hexachloroethane
Concen: 51.076 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion:117 Resp: 60971

Ion	Ratio	Lower	Upper
117	100		
201	65.2	33.6	100.6



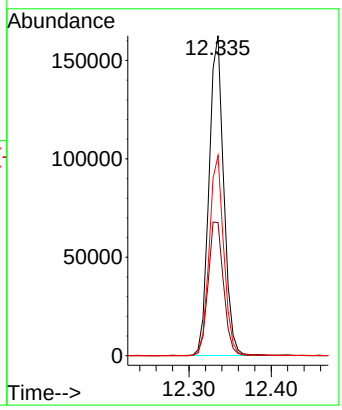


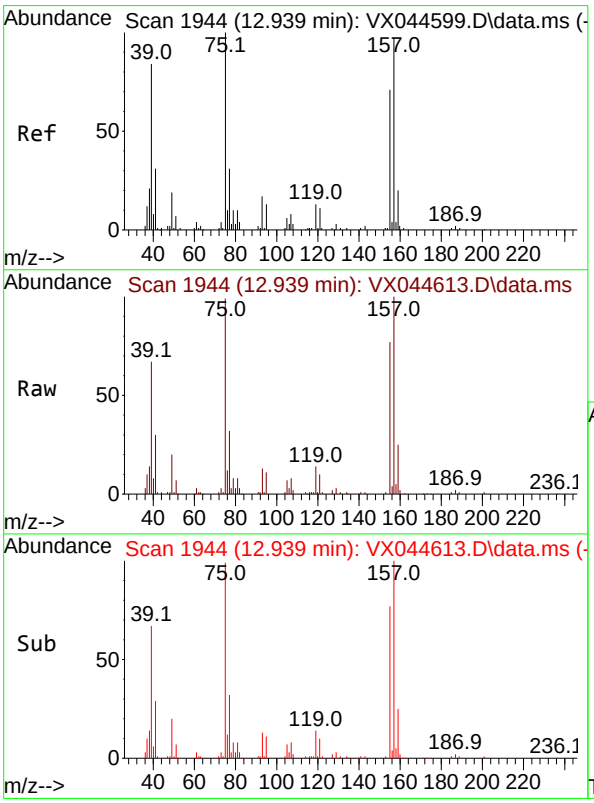
#91
1,2-Dichlorobenzene
Concen: 51.635 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:146 Resp: 201962

Ion	Ratio	Lower	Upper
146	100		
111	44.0	21.8	65.4
148	62.0	31.1	93.3

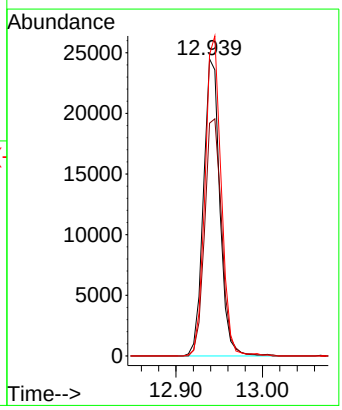


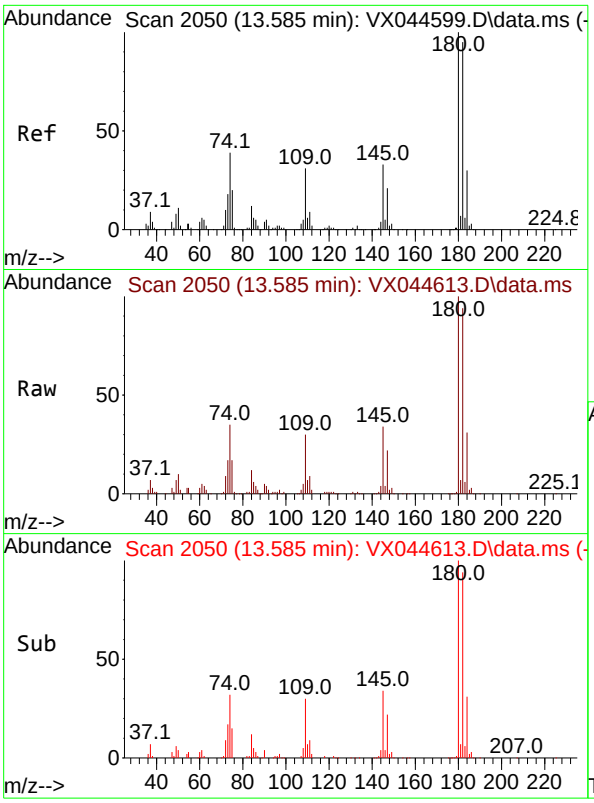


#92
1,2-Dibromo-3-Chloropropane
Concen: 59.698 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion: 75 Resp: 32131

Ion	Ratio	Lower	Upper
75	100		
155	83.6	37.4	112.1
157	106.3	48.0	144.2



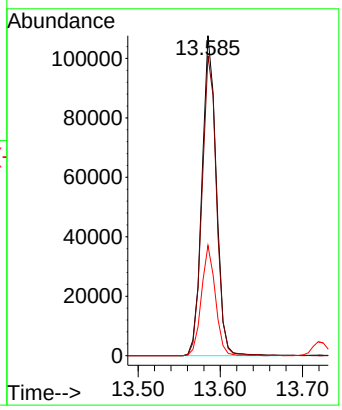


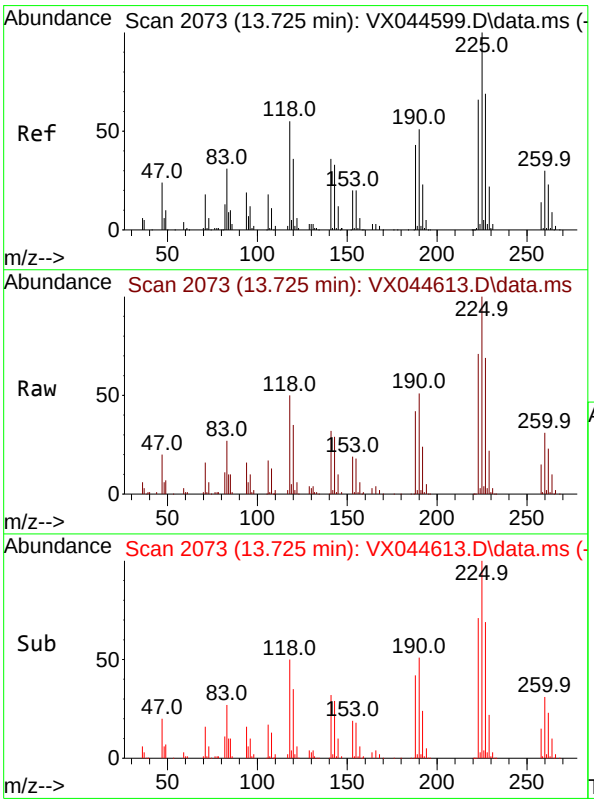
#93
1,2,4-Trichlorobenzene
Concen: 56.469 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:180 Resp: 129812

Ion	Ratio	Lower	Upper
180	100		
182	94.8	47.9	143.6
145	33.7	16.3	48.9

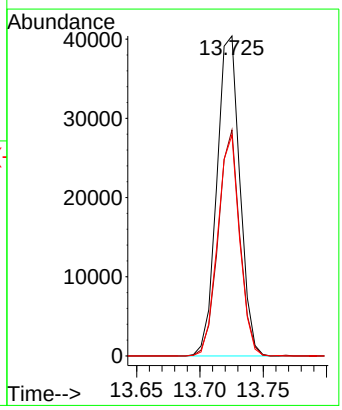


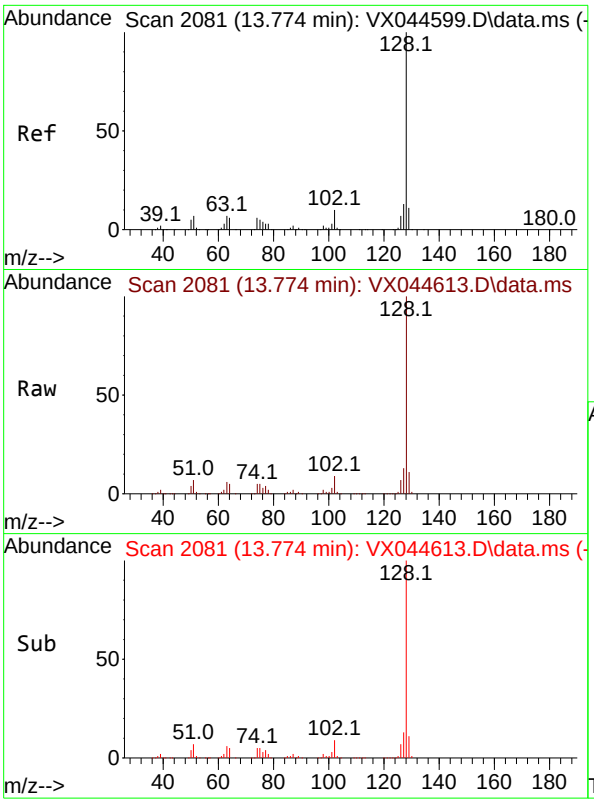


#94
Hexachlorobutadiene
Concen: 53.233 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion:225 Resp: 50956

Ion	Ratio	Lower	Upper
225	100		
223	66.3	31.6	94.8
227	65.7	31.9	95.9



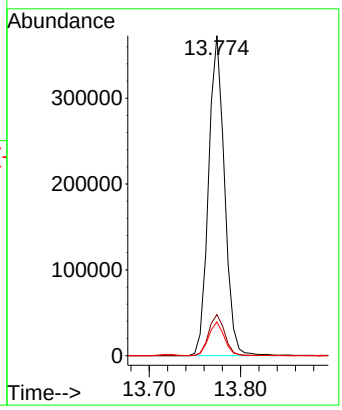


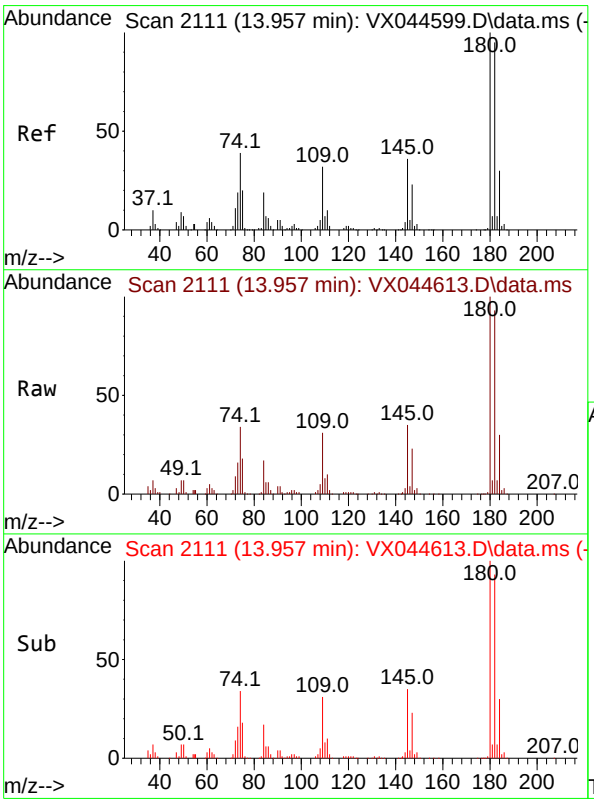
#95
Naphthalene
Concen: 60.764 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:128 Resp: 450708

Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.5	15.7
129	10.4	8.6	13.0





#96
1,2,3-Trichlorobenzene
Concen: 57.677 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX044613.D
Acq: 07 Jan 2025 19:37

Tgt Ion:180 Resp: 135540

Ion	Ratio	Lower	Upper
180	100		
182	93.0	47.6	142.9
145	35.0	17.6	52.9