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

DATA PACKAGE

VOLATILE ORGANICS

PROJECT NAME : NWIRP BETHPAGE 112G08005-WE13

TETRA TECH NUS, INC.

661 Andersen Drive

Suite 200

Pittsburgh, PA - 15220-2745

Phone No: 412-921-7090

ORDER ID : Q1062

ATTENTION : Ernie Wu

Laboratory Certification ID # 20012

Table Of Contents for Q1062

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 20
10) Sample Data 22
10.1) BP-VPB-190A-TB-20250107 23
10.2) VPB190A-HYD-20250107 36
10.3) BP-VPB-190A-EB-20250107 49
10.4) BP-VPB-190A-GW-898-900 63
11) Calibration Data Summary 76
11.1) Initial Calibration Data 77
11.1.1) VN011425 77
11.2) Continued Calibration Data 447
11.2.1) VN085447.D 447
11.2.2) VN085463.D 507
12) QC Sample Data 567
12.1) Tune Raw Data 568
12.2) Method Blank Data 570
12.3) LCS Data 582
12.4) LCSD Data 636
13) Manual Integration 690
14) Analytical Runlogs 693
15) Standard Prep Logs 698
16) Miscellaneous Data 796
17) Shipping Document 821

17.1) Chain Of Custody 822
17.2) Lab Certificate 823
17.3) Internal COC 824
18) Not Reviewed Data 825

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

Cover Page

Order ID : Q1062

Project ID : NWIRP Bethpage 112G08005-WE13

Client : Tetra Tech NUS, Inc.

Lab Sample Number	Client Sample Number
Q1062-01	BP-VPB-190A-TB-20250107
Q1062-02	VPB190A-HYD-20250107
Q1062-03	BP-VPB-190A-EB-20250107
Q1062-04	BP-VPB-190A-GW-898-900

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 1:47 pm, Jan 21, 2025

Date: 1/17/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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

CASE NARRATIVE

Tetra Tech NUS, Inc.
Project Name: NWIRP Bethpage 112G08005-WE13
Project Manager: Ernie Wu
Chemtech Project # Q1062
Test Name: VOCMS Group1

A. Number of Samples and Date of Receipt:
4 Water samples were received on 01/09/2025.

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_N were done using GC column Rxi-624SIL MS 30m, 0.25mm, 1.4 um, Cat. #13868.The 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 met criteria .
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 Initial Calibration met the requirements .
The Continuous Calibration met the requirements .
The Tuning criteria met requirements.

Sample BP-VPB-190A-GW-898-900 was analyzed with 10X dilution as sample contained much sediment and not allowing straight run.

E. Additional Comments:
Fax and Hardcopy data will not match for all samples as fax samples were analyzed in sequence VN011325 where QC was failing as a corrective action samples reanalyzed and reported in Hardcopy while, fax data Provided in Miscellaneous Section.

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 1:47 pm, Jan 21, 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: Q1062 MATRIX: Water

METHOD: 8260D

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications BFB Meet Criteria (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements. The Initial Calibration met the requirements . The Continuous Calibration 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 .			✓
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:

Sample BP-VPB-190A-GW-898-900 was analyzed with 10X dilution as sample contained much sediment and not allowing straight run.

Fax and Hardcopy data will not match for all samples as fax samples were analyzed in sequence VN011325 where QC was failing as a corrective action samples reanalyzed and reported in Hardcopy while, fax data Provided in Miscellaneous Section.

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 1:48 pm, Jan 21, 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 #: Q1062

	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:** 01/17/2025

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

LAB CHRONICLE

OrderID:	Q1062	**OrderDate:**	1/10/2025 11:26:00 AM
Client:	Tetra Tech NUS, Inc.	**Project:**	NWIRP Bethpage 112G08005-WE13
Contact:	Ernie Wu	**Location:**	M11,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1062-01	**BP-VPB-190A-TB-20250107**	**Water**	VOCMS Group1	8260-Low	**01/07/25**		01/15/25	**01/09/25**
Q1062-02	**VPB190A-HYD-20250107**	**Water**	VOCMS Group1	8260-Low	**01/07/25**		01/15/25	**01/09/25**
Q1062-03	**BP-VPB-190A-EB-20250107**	**Water**	VOCMS Group1	8260-Low	**01/07/25**		01/15/25	**01/09/25**
Q1062-04	**BP-VPB-190A-GW-898-900**	**Water**	VOCMS Group1	8260-Low	**01/07/25**		01/15/25	**01/09/25**

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

Hit Summary Sheet
SW-846

SDG No.: Q1062

Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID:									
				0					

Total Voc :

Total Concentration:

QC SUMMARY

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

Surrogate Summary

SDG No.: Q1062

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
Q1062-01	BP-VPB-190A-TB-20250107	1,2-Dichloroethane-d4	50	53.3	107	81	118
		Dibromofluoromethane	50	50.0	100	80	119
		Toluene-d8	50	48.9	98	89	112
		4-Bromofluorobenzene	50	45.9	92	85	114
Q1062-02	VPB190A-HYD-20250107	1,2-Dichloroethane-d4	50	53.2	106	81	118
		Dibromofluoromethane	50	51.4	103	80	119
		Toluene-d8	50	49.2	98	89	112
		4-Bromofluorobenzene	50	47.0	94	85	114
Q1062-03	BP-VPB-190A-EB-20250107	1,2-Dichloroethane-d4	50	53.6	107	81	118
		Dibromofluoromethane	50	50.8	102	80	119
		Toluene-d8	50	50.0	100	89	112
		4-Bromofluorobenzene	50	46.6	93	85	114
Q1062-04	BP-VPB-190A-GW-898-900	1,2-Dichloroethane-d4	50	52.8	106	81	118
		Dibromofluoromethane	50	52.0	104	80	119
		Toluene-d8	50	49.3	99	89	112
		4-Bromofluorobenzene	50	46.3	93	85	114
VN0115WBL01	VN0115WBL01	1,2-Dichloroethane-d4	50	55.1	110	81	118
		Dibromofluoromethane	50	51.9	104	80	119
		Toluene-d8	50	50.1	100	89	112
		4-Bromofluorobenzene	50	49.0	98	85	114
VN0115WBS01	VN0115WBS01	1,2-Dichloroethane-d4	50	47.6	95	81	118
		Dibromofluoromethane	50	48.5	97	80	119
		Toluene-d8	50	50.4	101	89	112
		4-Bromofluorobenzene	50	49.5	99	85	114
VN0115WBSD0	VN0115WBSD01	1,2-Dichloroethane-d4	50	48.9	98	81	118
		Dibromofluoromethane	50	49.3	99	80	119
		Toluene-d8	50	50.1	100	89	112
		4-Bromofluorobenzene	50	50.4	101	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.: Q1062

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260-Low **Datafile :** VN085450.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN0115WBS01	Chloromethane	20	18.5	ug/L	93			50	139	
	Vinyl chloride	20	18.2	ug/L	91			58	137	
	Bromomethane	20	18.5	ug/L	93			53	141	
	Chloroethane	20	17.8	ug/L	89			60	138	
	Trichlorofluoromethane	20	18.7	ug/L	94			65	141	
	1,1,2-Trichlorotrifluoroethane	20	19.0	ug/L	95			70	136	
	1,1-Dichloroethene	20	18.6	ug/L	93			71	131	
	Acetone	100	87.7	ug/L	88			39	160	
	Carbon disulfide	20	17.4	ug/L	87			64	133	
	Methyl tert-butyl Ether	20	18.7	ug/L	94			71	124	
	Methylene Chloride	20	18.2	ug/L	91			74	124	
	trans-1,2-Dichloroethene	20	18.6	ug/L	93			75	124	
	1,1-Dichloroethane	20	18.6	ug/L	93			77	125	
	2-Butanone	100	91.2	ug/L	91			56	143	
	Carbon Tetrachloride	20	19.0	ug/L	95			72	136	
	cis-1,2-Dichloroethene	20	18.7	ug/L	94			78	123	
	Chloroform	20	18.4	ug/L	92			79	124	
	1,1,1-Trichloroethane	20	18.6	ug/L	93			74	131	
	Methylcyclohexane	20	19.8	ug/L	99			72	132	
	Benzene	20	19.2	ug/L	96			79	120	
	1,2-Dichloroethane	20	18.8	ug/L	94			73	128	
	Trichloroethene	20	19.2	ug/L	96			79	123	
	1,2-Dichloropropane	20	18.9	ug/L	95			78	122	
	Bromodichloromethane	20	19.8	ug/L	99			79	125	
	4-Methyl-2-Pentanone	100	95.3	ug/L	95			67	130	
	Toluene	20	20.1	ug/L	101			80	121	
	t-1,3-Dichloropropene	20	19.0	ug/L	95			73	127	
	cis-1,3-Dichloropropene	20	20.0	ug/L	100			75	124	
	1,1,2-Trichloroethane	20	18.9	ug/L	95			80	119	
	2-Hexanone	100	96.5	ug/L	97			57	139	
	Dibromochloromethane	20	19.1	ug/L	96			74	126	
	Tetrachloroethene	20	20.1	ug/L	101			74	129	
	Chlorobenzene	20	19.3	ug/L	97			82	118	
	Ethyl Benzene	20	20.0	ug/L	100			79	121	
	m/p-Xylenes	40	41.3	ug/L	103			80	121	
	o-Xylene	20	20.2	ug/L	101			78	122	
	Styrene	20	20.4	ug/L	102			78	123	
	Bromoform	20	19.8	ug/L	99			66	130	
	Isopropylbenzene	20	20.7	ug/L	104			72	131	
	1,1,2,2-Tetrachloroethane	20	18.5	ug/L	93			71	121	
	1,3-Dichlorobenzene	20	19.6	ug/L	98			80	119	
	1,4-Dichlorobenzene	20	18.7	ug/L	94			79	118	
	1,2-Dichlorobenzene	20	18.9	ug/L	95			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.: Q1062

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260-Low **Datafile :** VN085451.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN0115WBSD01	Chloromethane	20	19.5	ug/L	98	5		50	139	20
	Vinyl chloride	20	19.1	ug/L	96	5		58	137	20
	Bromomethane	20	19.3	ug/L	97	4		53	141	20
	Chloroethane	20	18.5	ug/L	93	4		60	138	20
	Trichlorofluoromethane	20	19.7	ug/L	99	5		65	141	20
	1,1,2-Trichlorotrifluoroethane	20	19.6	ug/L	98	3		70	136	20
	1,1-Dichloroethene	20	19.3	ug/L	97	4		71	131	20
	Acetone	100	94.9	ug/L	95	8		39	160	20
	Carbon disulfide	20	18.1	ug/L	91	4		64	133	20
	Methyl tert-butyl Ether	20	21.1	ug/L	106	12		71	124	20
	Methylene Chloride	20	20.1	ug/L	101	10		74	124	20
	trans-1,2-Dichloroethene	20	19.9	ug/L	100	7		75	124	20
	1,1-Dichloroethane	20	20.0	ug/L	100	7		77	125	20
	2-Butanone	100	97.6	ug/L	98	7		56	143	20
	Carbon Tetrachloride	20	19.9	ug/L	100	5		72	136	20
	cis-1,2-Dichloroethene	20	19.7	ug/L	99	5		78	123	20
	Chloroform	20	20.1	ug/L	101	9		79	124	20
	1,1,1-Trichloroethane	20	19.9	ug/L	100	7		74	131	20
	Methylcyclohexane	20	20.0	ug/L	100	1		72	132	20
	Benzene	20	20.1	ug/L	101	5		79	120	20
	1,2-Dichloroethane	20	20.7	ug/L	104	10		73	128	20
	Trichloroethene	20	20.1	ug/L	101	5		79	123	20
	1,2-Dichloropropane	20	20.2	ug/L	101	6		78	122	20
	Bromodichloromethane	20	20.9	ug/L	104	5		79	125	20
	4-Methyl-2-Pentanone	100	100	ug/L	100	5		67	130	20
	Toluene	20	21.5	ug/L	108	7		80	121	20
	t-1,3-Dichloropropene	20	20.3	ug/L	102	7		73	127	20
	cis-1,3-Dichloropropene	20	21.0	ug/L	105	5		75	124	20
	1,1,2-Trichloroethane	20	20.9	ug/L	104	9		80	119	20
	2-Hexanone	100	100	ug/L	100	3		57	139	20
	Dibromochloromethane	20	20.2	ug/L	101	5		74	126	20
	Tetrachloroethene	20	20.7	ug/L	104	3		74	129	20
	Chlorobenzene	20	19.5	ug/L	98	1		82	118	20
	Ethyl Benzene	20	20.4	ug/L	102	2		79	121	20
	m/p-Xylenes	40	42.5	ug/L	106	3		80	121	20
	o-Xylene	20	20.9	ug/L	104	3		78	122	20
	Styrene	20	20.8	ug/L	104	2		78	123	20
	Bromoform	20	20.6	ug/L	103	4		66	130	20
	Isopropylbenzene	20	20.6	ug/L	103	1		72	131	20
	1,1,2,2-Tetrachloroethane	20	19.0	ug/L	95	2		71	121	20
	1,3-Dichlorobenzene	20	20.1	ug/L	101	3		80	119	20
	1,4-Dichlorobenzene	20	19.1	ug/L	96	2		79	118	20
	1,2-Dichlorobenzene	20	19.0	ug/L	95	0		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.

VN0115WBL01

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1062 SAS No.: Q1062 SDG NO.: Q1062

Lab File ID: VN085449.D Lab Sample ID: VN0115WBL01

Date Analyzed: 01/15/2025 Time Analyzed: 10:05

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_N

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VN0115WBS01	VN0115WBS01	VN085450.D	01/15/2025
VN0115WBSD01	VN0115WBSD01	VN085451.D	01/15/2025
BP-VPB-190A-GW-898-900	Q1062-04	VN085452.D	01/15/2025
BP-VPB-190A-TB-20250107	Q1062-01	VN085453.D	01/15/2025
BP-VPB-190A-EB-20250107	Q1062-03	VN085454.D	01/15/2025
VPB190A-HYD-20250107	Q1062-02	VN085455.D	01/15/2025

COMMENTS:

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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1062 SAS No.: Q1062 SDG NO.: Q1062

Lab File ID: VN085437.D BFB Injection Date: 01/14/2025

Instrument ID: MSVOA_N BFB Injection Time: 14:22

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.3
75	30.0 - 60.0% of mass 95	58
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.8
173	Less than 2.0% of mass 174	1.4 (1.8) 1
174	50.0 - 100.0% of mass 95	76
175	5.0 - 9.0% of mass 174	5.4 (7.1) 1
176	95.0 - 101.0% of mass 174	74.1 (97.4) 1
177	5.0 - 9.0% of mass 176	4.9 (6.7) 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
VSTDICC100	VSTDICC100	VN085438.D	01/14/2025	14:56
VSTDICCC050	VSTDICCC050	VN085439.D	01/14/2025	15:19
VSTDICC020	VSTDICC020	VN085440.D	01/14/2025	15:43
VSTDICC010	VSTDICC010	VN085441.D	01/14/2025	16:07
VSTDICC005	VSTDICC005	VN085442.D	01/14/2025	16:31
VSTDICC001	VSTDICC001	VN085443.D	01/14/2025	17:19

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.: Q1062 SAS No.: Q1062 SDG NO.: Q1062

Lab File ID: VN085446.D BFB Injection Date: 01/15/2025

Instrument ID: MSVOA_N BFB Injection Time: 08:25

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.1
75	30.0 - 60.0% of mass 95	56.6
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	1.1 (1.5) 1
174	50.0 - 100.0% of mass 95	70.9
175	5.0 - 9.0% of mass 174	5.3 (7.5) 1
176	95.0 - 101.0% of mass 174	70.4 (99.2) 1
177	5.0 - 9.0% of mass 176	4.3 (6.1) 2

1-Value is % mass 174 2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VN085447.D	01/15/2025	09:03
VN0115WBL01	VN0115WBL01	VN085449.D	01/15/2025	10:05
VN0115WBS01	VN0115WBS01	VN085450.D	01/15/2025	10:29
VN0115WBSD01	VN0115WBSD01	VN085451.D	01/15/2025	11:02
BP-VPB-190A-GW-898-900	Q1062-04	VN085452.D	01/15/2025	11:26
BP-VPB-190A-TB-20250107	Q1062-01	VN085453.D	01/15/2025	11:50
BP-VPB-190A-EB-20250107	Q1062-03	VN085454.D	01/15/2025	12:14
VPB190A-HYD-20250107	Q1062-02	VN085455.D	01/15/2025	12:37
VSTDCCC050EC	VSTDCCC050	VN085463.D	01/15/2025	15:58

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.: Q1062 SAS No.: Q1062 SDG NO.: Q1062

Lab File ID: VN085447.D Date Analyzed: 01/15/2025

Instrument ID: MSVOA_N Time Analyzed: 09:03

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	218273	8.22	358609	9.09	316952	11.86
UPPER LIMIT	436546	8.718	717218	9.594	633904	12.359
LOWER LIMIT	109137	7.718	179305	8.594	158476	11.359
EPA SAMPLE NO.						
BP-VPB-190A-TB-20250107	196038	8.22	355455	9.09	304386	11.87
VPB190A-HYD-20250107	183777	8.22	332391	9.10	293220	11.87
BP-VPB-190A-EB-20250107	185335	8.22	337105	9.10	298295	11.87
BP-VPB-190A-GW-898-900	175474	8.22	316452	9.10	274227	11.87
VN0115WBL01	195111	8.22	360723	9.10	319974	11.86
VN0115WBS01	208834	8.22	350038	9.09	301633	11.87
VN0115WBSD01	188898	8.22	323122	9.10	286298	11.87

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.: Q1062 SAS No.: Q1062 SDG NO.: Q1062

Lab File ID: VN085447.D Date Analyzed: 01/15/2025

Instrument ID: MSVOA_N Time Analyzed: 09:03

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	158347	13.788				
UPPER LIMIT	316694	14.288				
LOWER LIMIT	79173.5	13.288				
EPA SAMPLE NO.						
BP-VPB-190A-TB-20250107	119672	13.79				
VPB190A-HYD-20250107	116419	13.79				
BP-VPB-190A-EB-20250107	117680	13.79				
BP-VPB-190A-GW-898-900	107831	13.79				
VN0115WBL01	130534	13.79				
VN0115WBS01	141189	13.79				
VN0115WBSD01	136502	13.79				

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:	01/07/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	01/09/25
Client Sample ID:	BP-VPB-190A-TB-20250107	SDG No.:	Q1062
Lab Sample ID:	Q1062-01	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:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085453.D	1		01/15/25 11:50	VN011525

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:	01/07/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	01/09/25
Client Sample ID:	BP-VPB-190A-TB-20250107	SDG No.:	Q1062
Lab Sample ID:	Q1062-01	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:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085453.D	1		01/15/25 11:50	VN011525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	53.3		81 - 118		107%	SPK: 50
1868-53-7	Dibromofluoromethane	50.0		80 - 119		100%	SPK: 50
2037-26-5	Toluene-d8	48.9		89 - 112		98%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.9		85 - 114		92%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	196000	8.218				
540-36-3	1,4-Difluorobenzene	355000	9.094				
3114-55-4	Chlorobenzene-d5	304000	11.865				
3855-82-1	1,4-Dichlorobenzene-d4	120000	13.788				
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:	01/07/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	01/09/25
Client Sample ID:	BP-VPB-190A-TB-20250107	SDG No.:	Q1062
Lab Sample ID:	Q1062-01	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:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085453.D	1		01/15/25 11:50	VN011525

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_N\Data\VN011525\
Data File : VN085453.D
Acq On : 15 Jan 2025 11:50
Operator : JC\MD
Sample : Q1062-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190A-TB-20250107

Quant Time: Jan 16 00:55:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

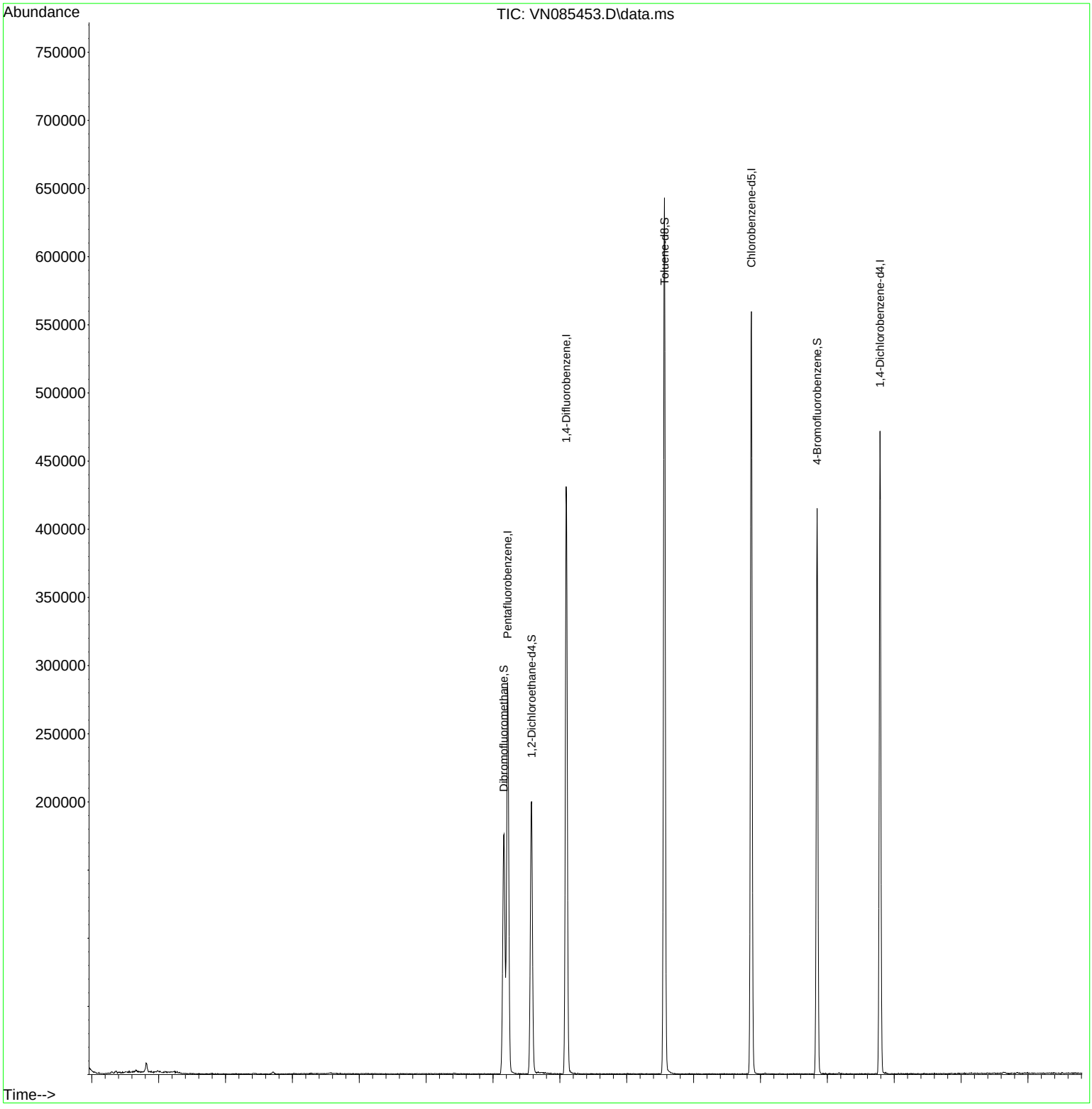
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.218	168	196038	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	355455	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	304386	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	119672	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	168714	53.315	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 106.640%			
35) Dibromofluoromethane	8.159	113	123337	50.015	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.040%			
50) Toluene-d8	10.565	98	428715	48.931	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 97.860%			
62) 4-Bromofluorobenzene	12.847	95	137686	45.939	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 91.880%			
Target Compounds						Qvalue

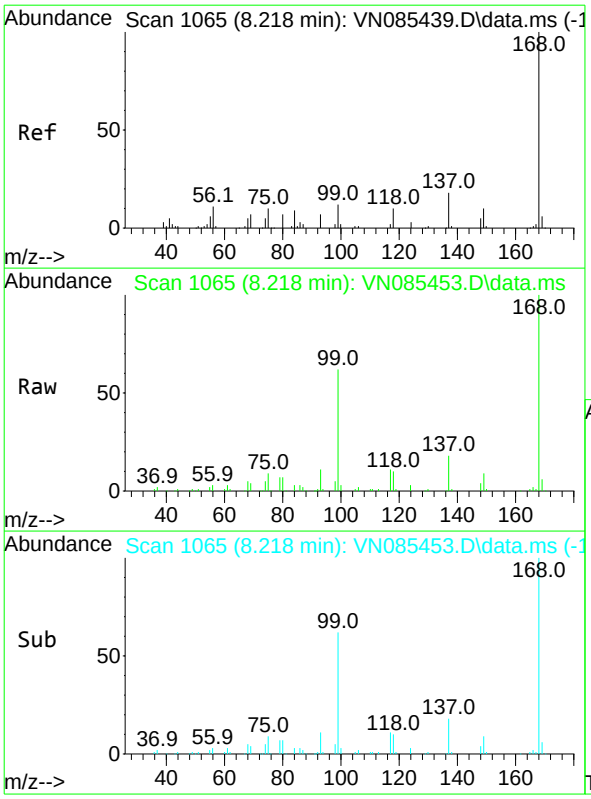
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085453.D
Acq On : 15 Jan 2025 11:50
Operator : JC\MD
Sample : Q1062-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190A-TB-20250107

Quant Time: Jan 16 00:55:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration



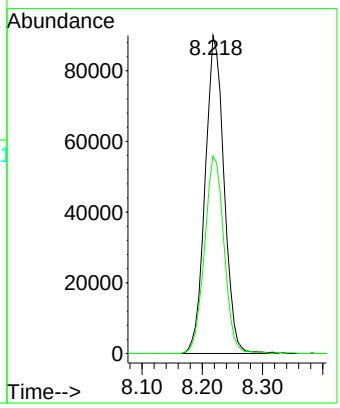


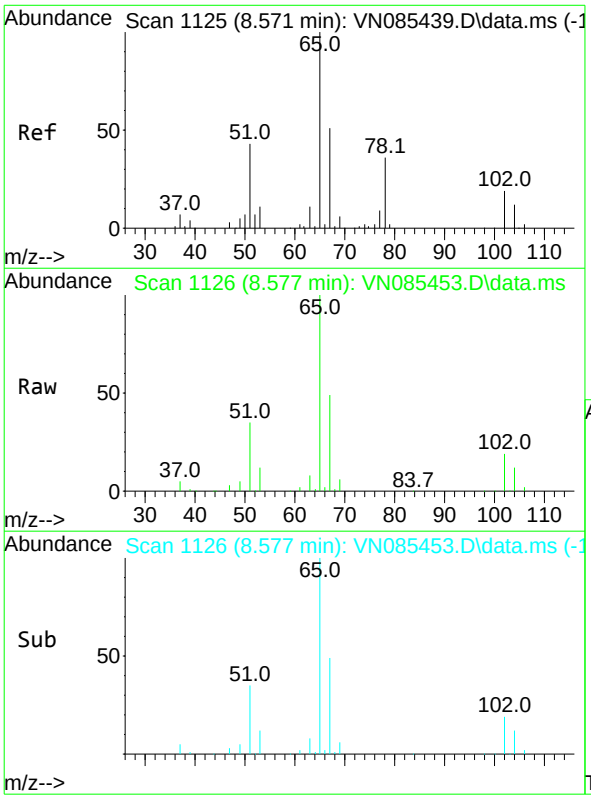
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN085453.D
Acq: 15 Jan 2025 11:50

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190A-TB-20250107

Tgt Ion:168 Resp: 196038

Ion	Ratio	Lower	Upper
168	100		
99	62.1	53.6	80.4

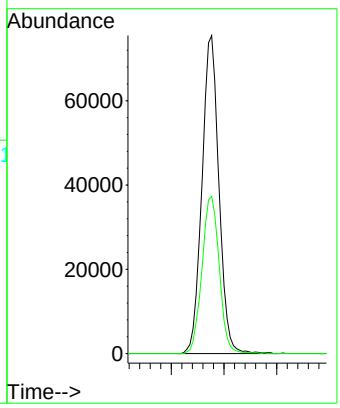


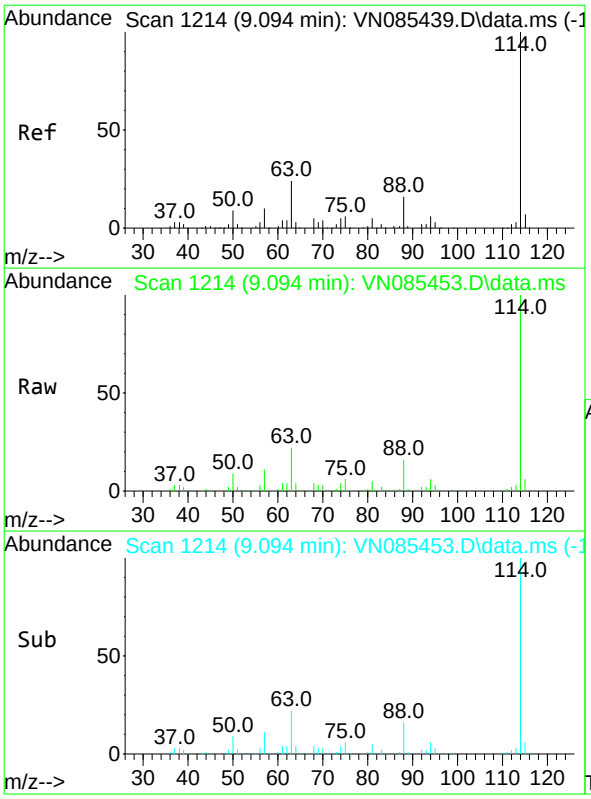


#33
1,2-Dichloroethane-d4
Concen: 53.315 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.006 min
Lab File: VN085453.D
Acq: 15 Jan 2025 11:50

Tgt Ion: 65 Resp: 168714

Ion	Ratio	Lower	Upper
65	100		
67	50.4	0.0	101.6



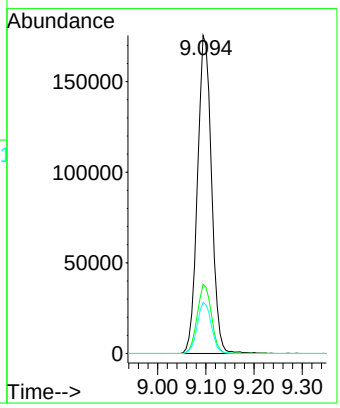


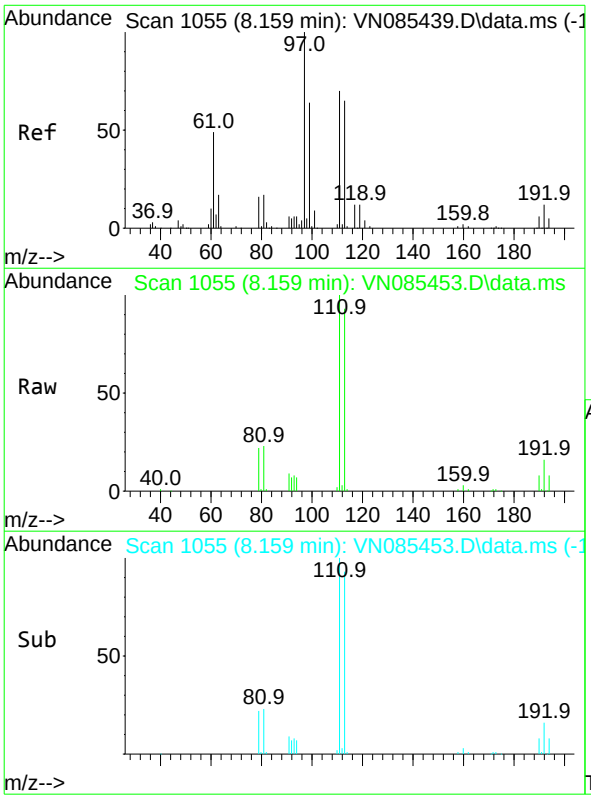
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.094 min Scan# 12
Delta R.T. -0.000 min
Lab File: VN085453.D
Acq: 15 Jan 2025 11:50

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190A-TB-20250107

Tgt Ion:114 Resp: 355455

Ion	Ratio	Lower	Upper
114	100		
63	21.7	0.0	47.6
88	16.0	0.0	32.6

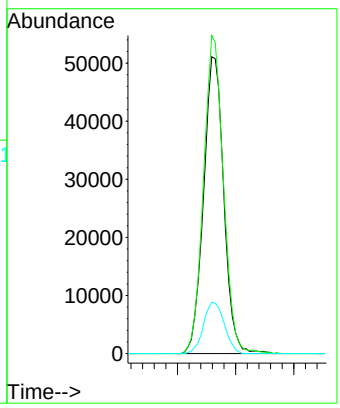


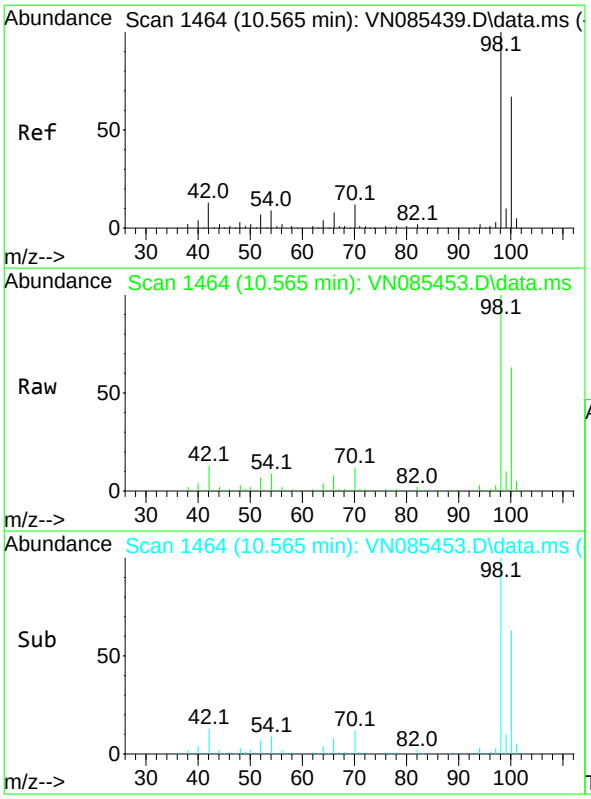


#35
Dibromofluoromethane
Concen: 50.015 ug/l
RT: 8.159 min Scan# 1055
Delta R.T. -0.000 min
Lab File: VN085453.D
Acq: 15 Jan 2025 11:50

Tgt Ion:113 Resp: 123337

Ion	Ratio	Lower	Upper
113	100		
111	105.8	82.7	124.1
192	17.9	14.3	21.5



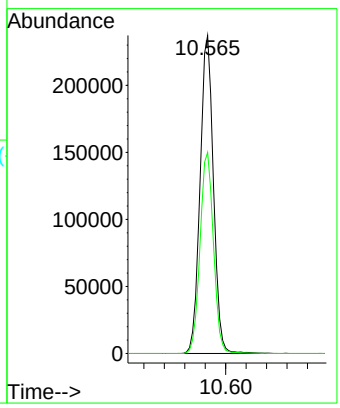


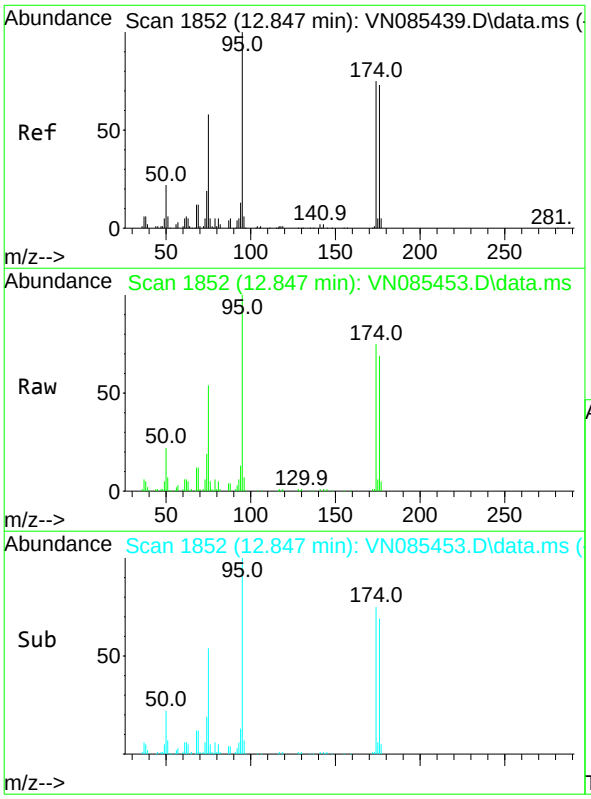
#50
Toluene-d8
Concen: 48.931 ug/l
RT: 10.565 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN085453.D
Acq: 15 Jan 2025 11:50

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190A-TB-20250107

Tgt Ion: 98 Resp: 428715

Ion	Ratio	Lower	Upper
98	100		
100	63.8	52.2	78.4

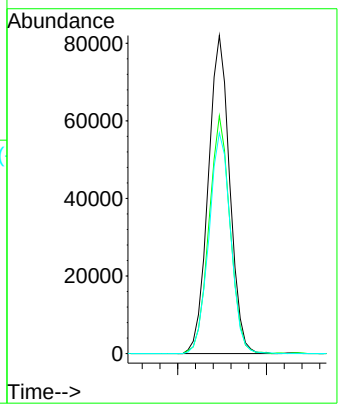


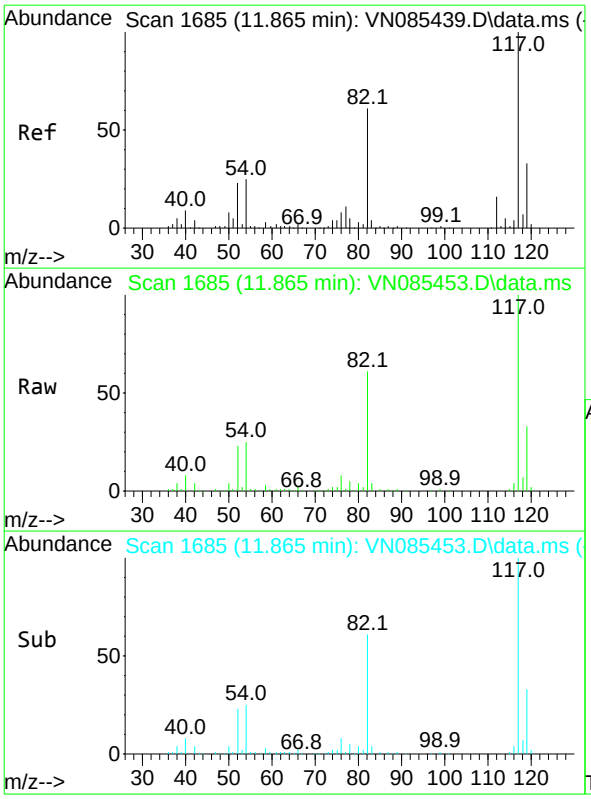


#62
4-Bromofluorobenzene
Concen: 45.939 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085453.D
Acq: 15 Jan 2025 11:50

Tgt Ion: 95 Resp: 137686

Ion	Ratio	Lower	Upper
95	100		
174	73.4	0.0	145.0
176	70.1	0.0	142.4



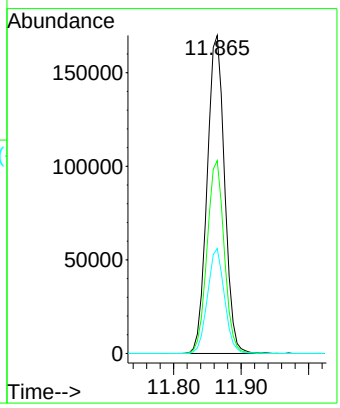


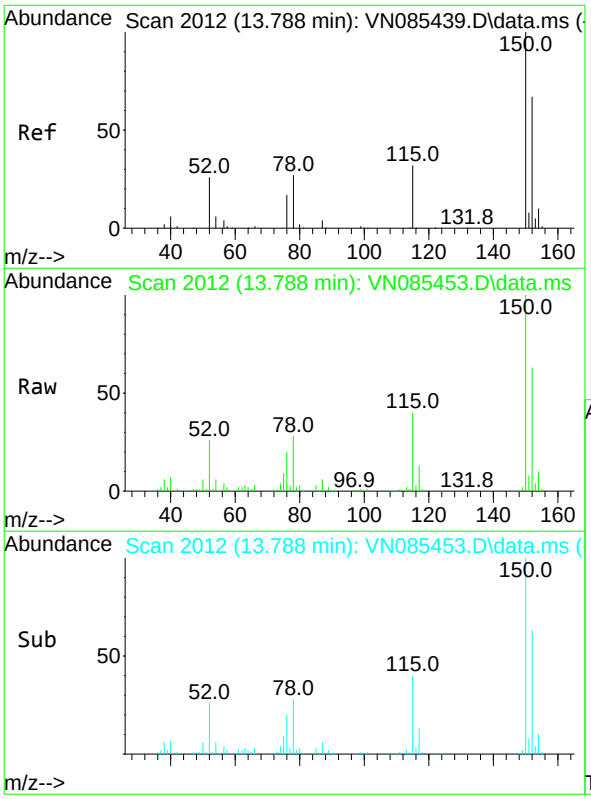
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 16
Delta R.T. -0.000 min
Lab File: VN085453.D
Acq: 15 Jan 2025 11:50

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190A-TB-20250107

Tgt Ion:117 Resp: 304386

Ion	Ratio	Lower	Upper
117	100		
82	60.6	48.6	72.8
119	33.0	26.6	39.8

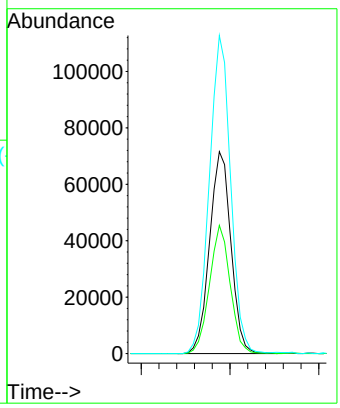




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN085453.D
Acq: 15 Jan 2025 11:50

Tgt Ion:152 Resp: 119672

Ion	Ratio	Lower	Upper
152	100		
115	61.4	31.1	93.3
150	156.9	0.0	343.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085453.D
Acq On : 15 Jan 2025 11:50
Operator : JC\MD
Sample : Q1062-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190A-TB-20250107

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_N\methods\82N011425W.M
Title : SW846 8260

Signal : TIC: VN085453.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.812	139	146	152	rBV3	6669	12224	1.04%	0.202%
2	8.165	1045	1056	1060	rBV	175882	418329	35.69%	6.925%
3	8.218	1060	1065	1077	rVB	286274	633544	54.05%	10.487%
4	8.577	1116	1126	1139	rBV	200025	449865	38.38%	7.447%
5	9.094	1206	1214	1225	rBV	430827	877627	74.88%	14.528%
6	10.565	1455	1464	1480	rBV	642571	1172114	100.00%	19.403%
7	11.865	1677	1685	1696	rBV	559123	1001040	85.40%	16.571%
8	12.847	1845	1852	1862	rBV	414847	697222	59.48%	11.541%
9	13.788	2004	2012	2021	rBV	471684	779063	66.47%	12.896%

Sum of corrected areas: 6041028

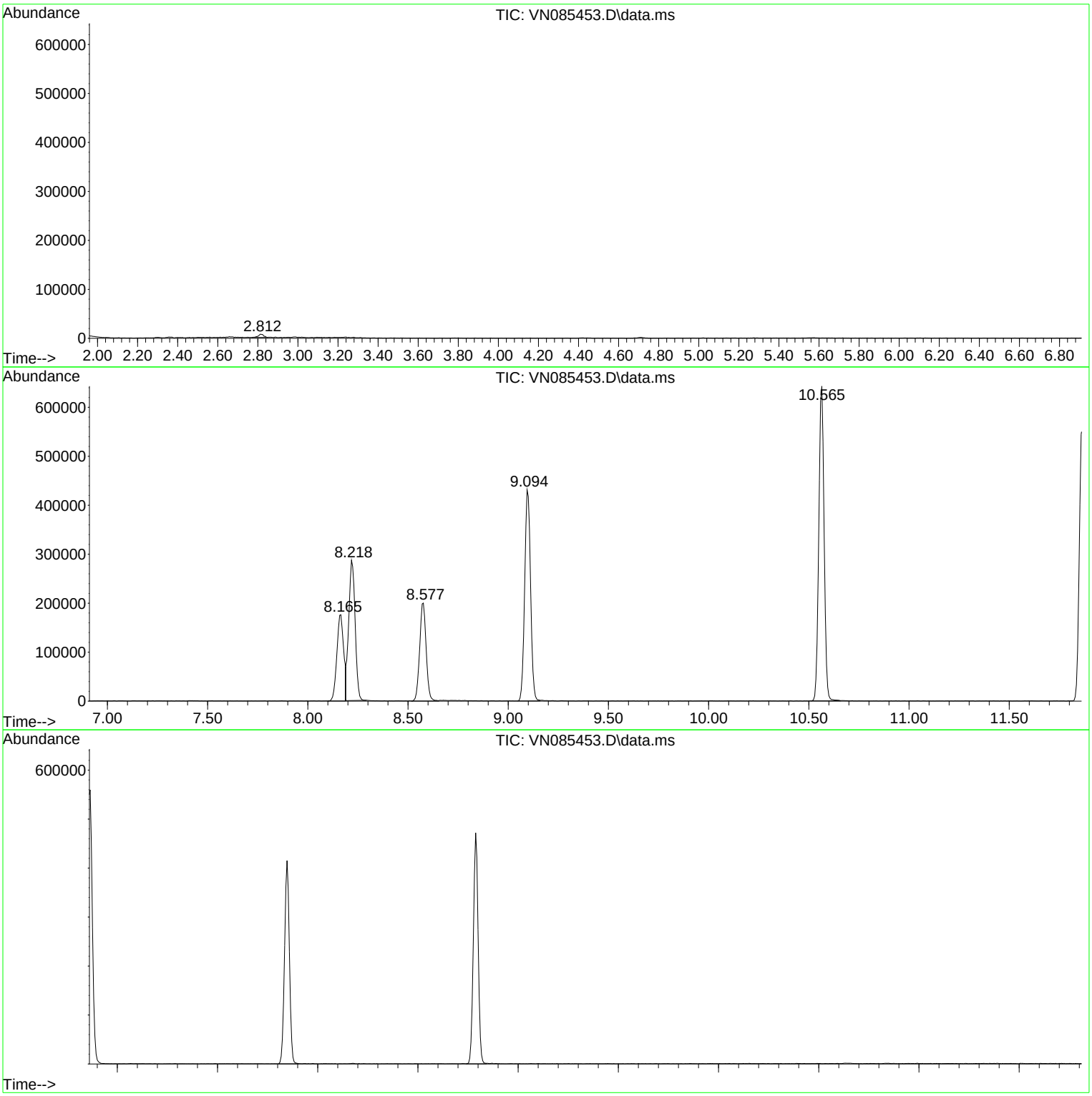
Sample Results: **VN085453.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085453.D
Acq On : 15 Jan 2025 11:50
Operator : JC\MD
Sample : Q1062-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190A-TB-20250107

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085453.D
Acq On : 15 Jan 2025 11:50
Operator : JC\MD
Sample : Q1062-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190A-TB-20250107

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.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_N\Data\VN011525\
Data File : VN085453.D
Acq On : 15 Jan 2025 11:50
Operator : JC\MD
Sample : Q1062-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190A-TB-20250107

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.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:	01/07/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	01/09/25
Client Sample ID:	VPB190A-HYD-20250107	SDG No.:	Q1062
Lab Sample ID:	Q1062-02	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:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085455.D	1		01/15/25 12:37	VN011525

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:	01/07/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	01/09/25
Client Sample ID:	VPB190A-HYD-20250107	SDG No.:	Q1062
Lab Sample ID:	Q1062-02	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:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085455.D	1		01/15/25 12:37	VN011525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	53.2		81 - 118		106%	SPK: 50
1868-53-7	Dibromofluoromethane	51.4		80 - 119		103%	SPK: 50
2037-26-5	Toluene-d8	49.2		89 - 112		98%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.1		85 - 114		94%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	184000	8.224				
540-36-3	1,4-Difluorobenzene	332000	9.1				
3114-55-4	Chlorobenzene-d5	293000	11.865				
3855-82-1	1,4-Dichlorobenzene-d4	116000	13.788				
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:	01/07/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	01/09/25
Client Sample ID:	VPB190A-HYD-20250107	SDG No.:	Q1062
Lab Sample ID:	Q1062-02	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:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085455.D	1		01/15/25 12:37	VN011525

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_N\Data\VN011525\
Data File : VN085455.D
Acq On : 15 Jan 2025 12:37
Operator : JC\MD
Sample : Q1062-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VPB190A-HYD-20250107

Quant Time: Jan 16 00:56:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

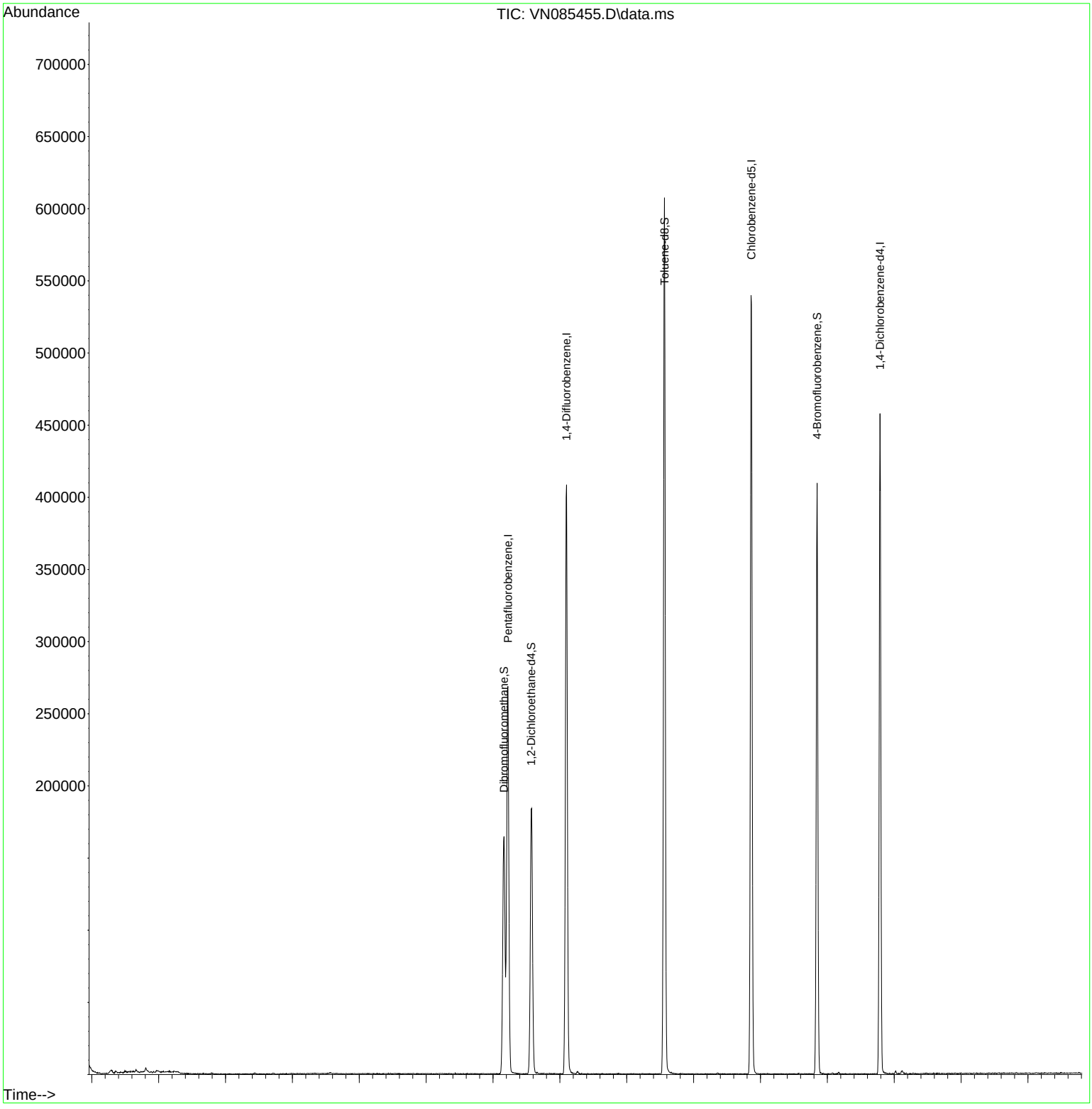
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	183777	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	332391	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	293220	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	116419	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	157915	53.232	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 106.460%			
35) Dibromofluoromethane	8.165	113	118493	51.385	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.780%			
50) Toluene-d8	10.565	98	403278	49.222	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 98.440%			
62) 4-Bromofluorobenzene	12.847	95	131868	47.051	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 94.100%			
Target Compounds						Qvalue

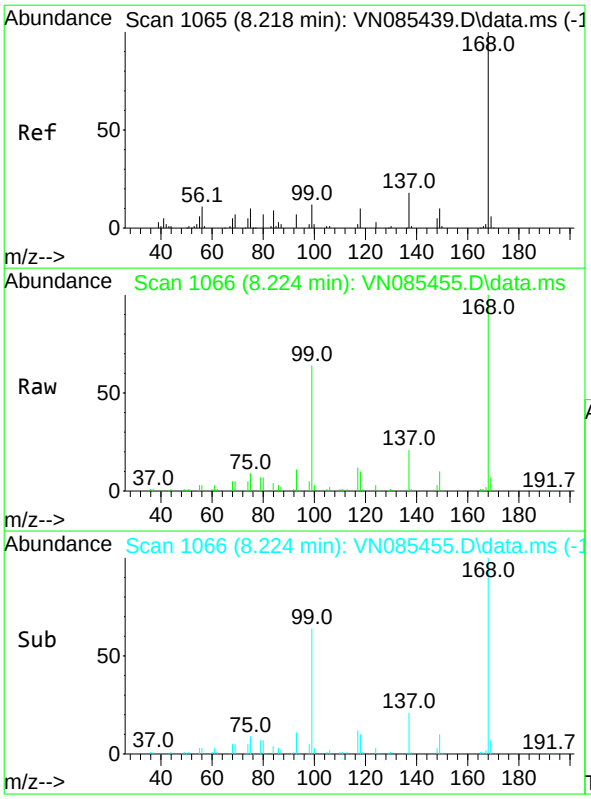
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085455.D
Acq On : 15 Jan 2025 12:37
Operator : JC\MD
Sample : Q1062-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VPB190A-HYD-20250107

Quant Time: Jan 16 00:56:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration



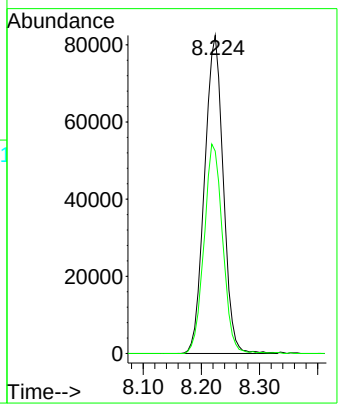


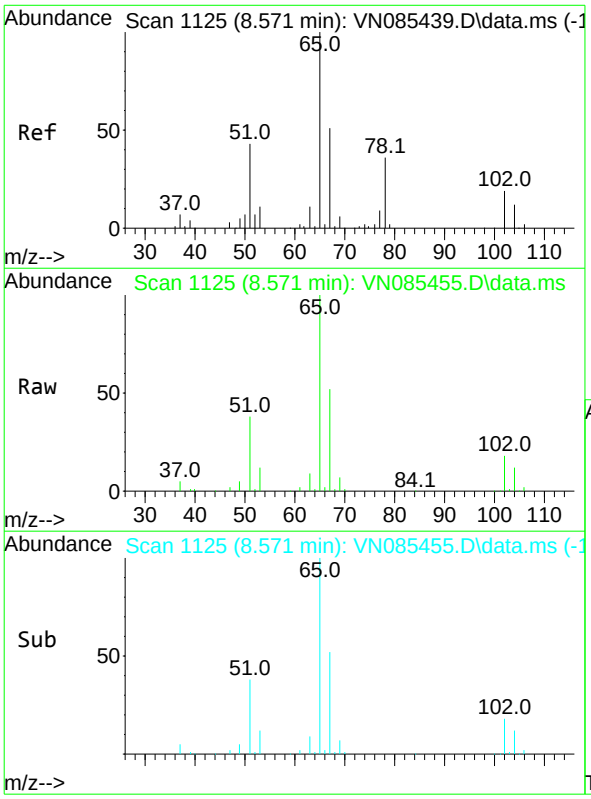
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085455.D
Acq: 15 Jan 2025 12:37

Instrument :
MSVOA_N
ClientSampleId :
VPB190A-HYD-20250107

Tgt Ion:168 Resp: 183777

Ion	Ratio	Lower	Upper
168	100		
99	63.6	53.6	80.4

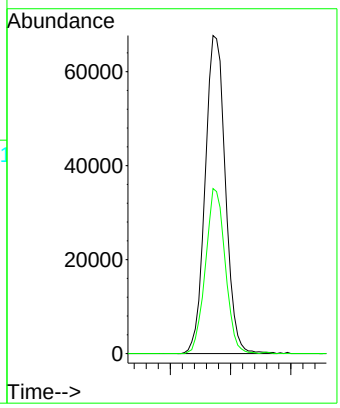


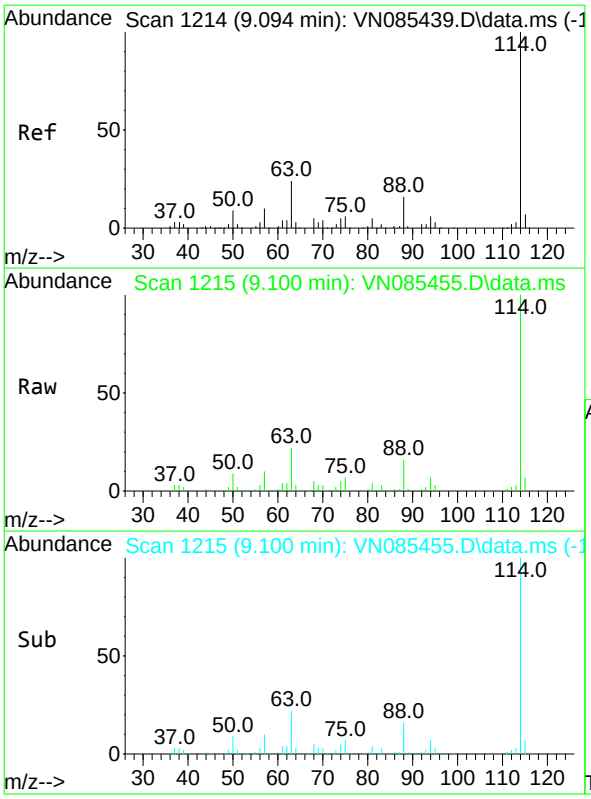


#33
1,2-Dichloroethane-d4
Concen: 53.232 ug/l
RT: 8.571 min Scan# 1125
Delta R.T. 0.000 min
Lab File: VN085455.D
Acq: 15 Jan 2025 12:37

Tgt Ion: 65 Resp: 157915

Ion	Ratio	Lower	Upper
65	100		
67	50.5	0.0	101.6



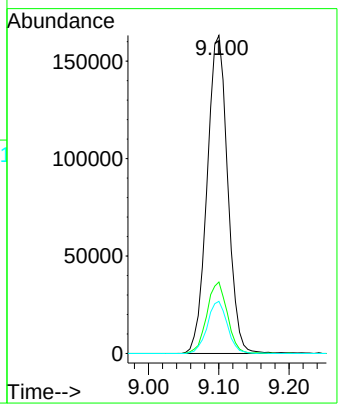


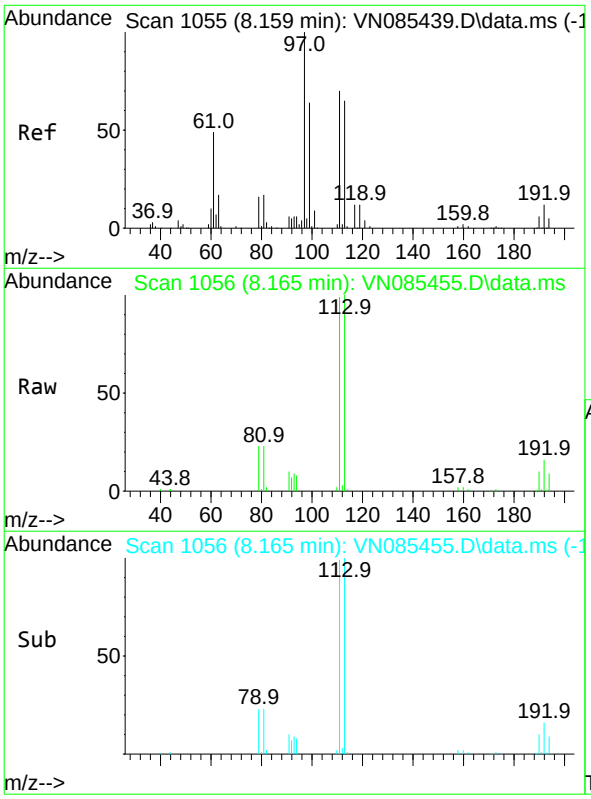
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 12
Delta R.T. 0.006 min
Lab File: VN085455.D
Acq: 15 Jan 2025 12:37

Instrument :
MSVOA_N
ClientSampleId :
VPB190A-HYD-20250107

Tgt Ion:114 Resp: 332391

Ion	Ratio	Lower	Upper
114	100		
63	22.5	0.0	47.6
88	16.4	0.0	32.6

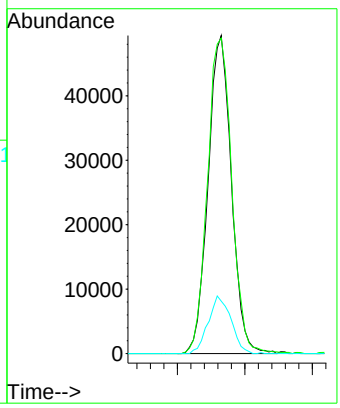


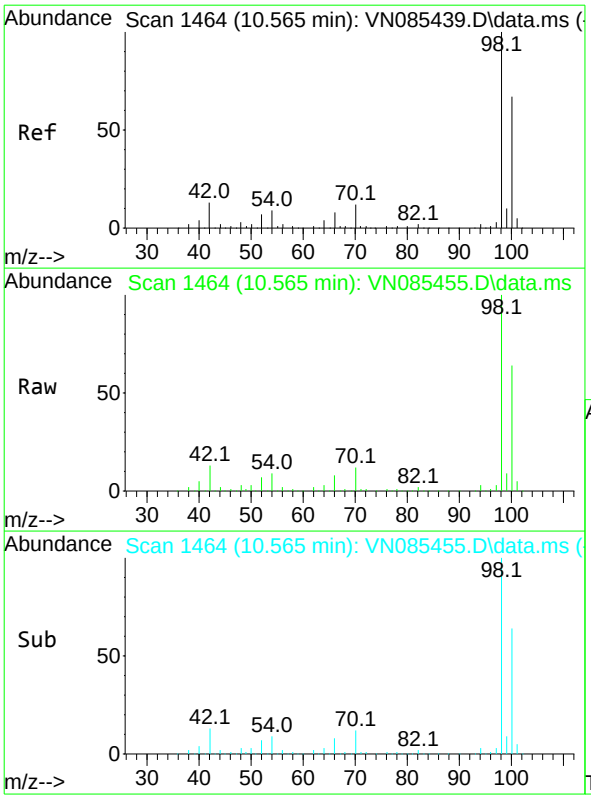


#35
Dibromofluoromethane
Concen: 51.385 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VN085455.D
Acq: 15 Jan 2025 12:37

Tgt Ion:113 Resp: 118493

Ion	Ratio	Lower	Upper
113	100		
111	103.5	82.7	124.1
192	17.6	14.3	21.5



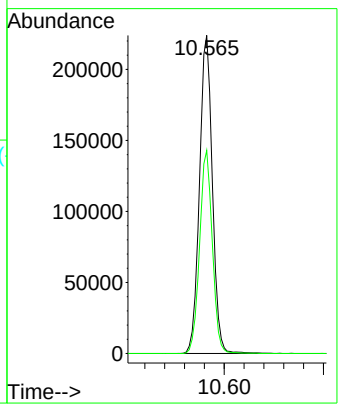


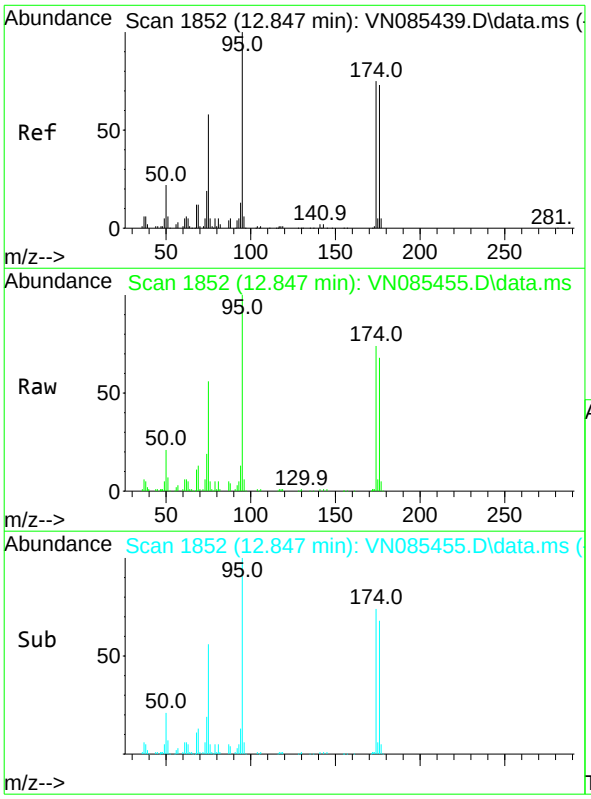
#50
Toluene-d8
Concen: 49.222 ug/l
RT: 10.565 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN085455.D
Acq: 15 Jan 2025 12:37

Instrument :
MSVOA_N
ClientSampleId :
VPB190A-HYD-20250107

Tgt Ion: 98 Resp: 403278

Ion	Ratio	Lower	Upper
98	100		
100	63.1	52.2	78.4

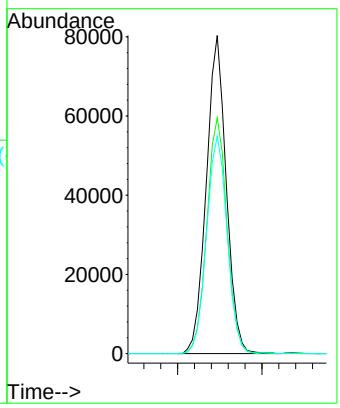


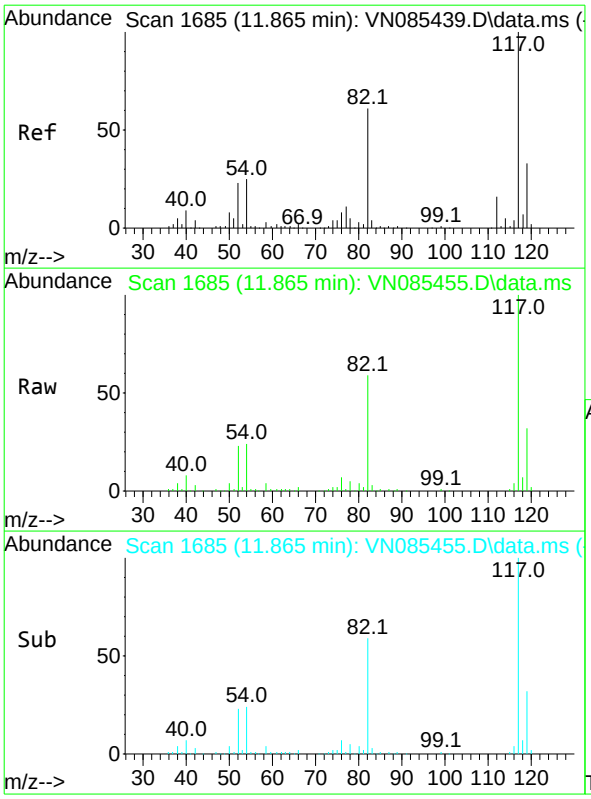


#62
4-Bromofluorobenzene
Concen: 47.051 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085455.D
Acq: 15 Jan 2025 12:37

Tgt Ion: 95 Resp: 131868

Ion	Ratio	Lower	Upper
95	100		
174	75.1	0.0	145.0
176	70.6	0.0	142.4



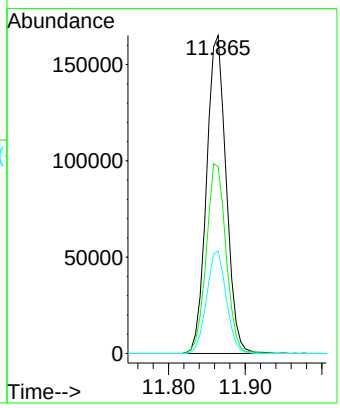


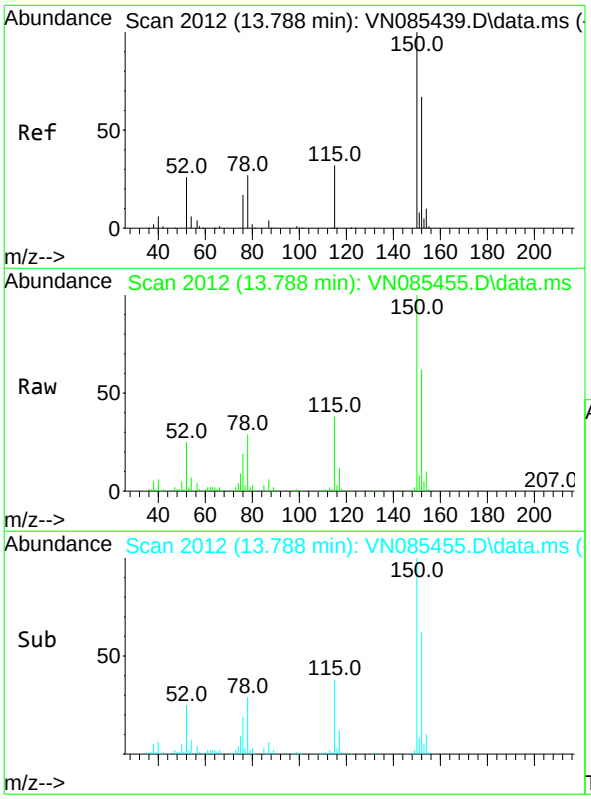
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 16
Delta R.T. 0.000 min
Lab File: VN085455.D
Acq: 15 Jan 2025 12:37

Instrument :
MSVOA_N
ClientSampleId :
VPB190A-HYD-20250107

Tgt Ion:117 Resp: 293220

Ion	Ratio	Lower	Upper
117	100		
82	58.7	48.6	72.8
119	32.3	26.6	39.8

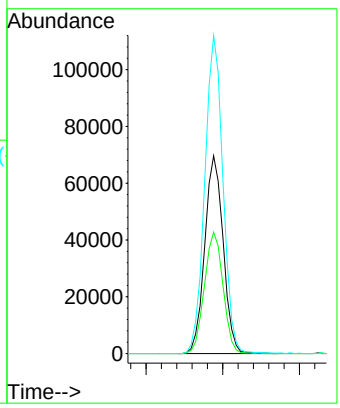




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN085455.D
Acq: 15 Jan 2025 12:37

Tgt Ion:152 Resp: 116419

Ion	Ratio	Lower	Upper
152	100		
115	61.9	31.1	93.3
150	158.7	0.0	343.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085455.D
Acq On : 15 Jan 2025 12:37
Operator : JC\MD
Sample : Q1062-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VPB190A-HYD-20250107

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_N\methods\82N011425W.M
Title : SW846 8260

Signal : TIC: VN085455.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	8.165	1044	1056	1060	rBV	164657	396665	36.23%	6.878%
2	8.224	1060	1066	1078	rVB	267916	606613	55.41%	10.519%
3	8.577	1115	1126	1138	rBV2	184168	427451	39.05%	7.412%
4	9.100	1205	1215	1229	rBV	408227	833891	76.17%	14.460%
5	10.565	1455	1464	1480	rBV	607078	1094727	100.00%	18.983%
6	11.859	1676	1684	1699	rBV	539546	967457	88.37%	16.776%
7	12.847	1843	1852	1860	rBV	409546	677593	61.90%	11.749%
8	13.788	2005	2012	2024	rBV	457866	762624	69.66%	13.224%

Sum of corrected areas: 5767021

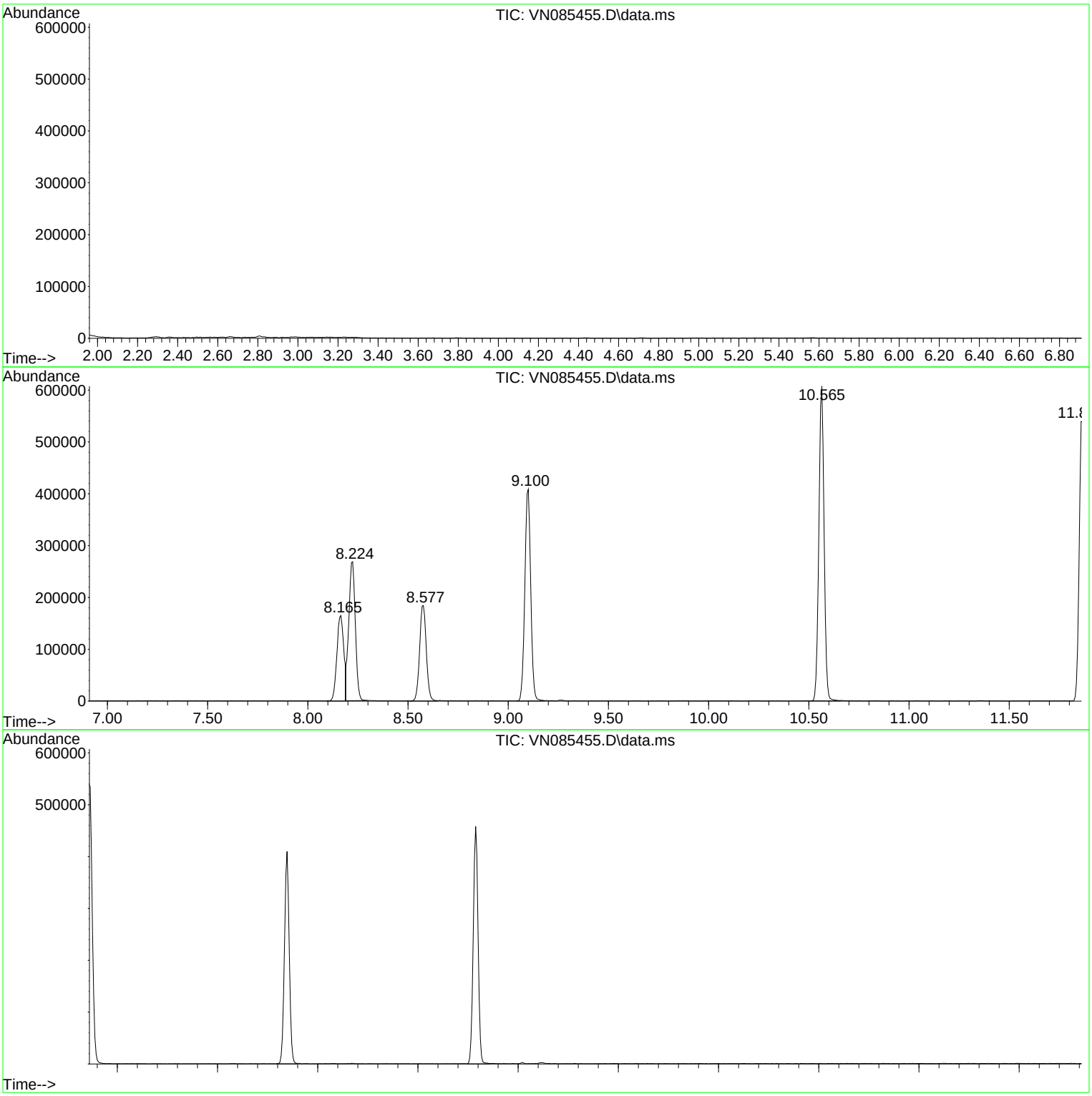
Sample Results: **VN085455.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085455.D
Acq On : 15 Jan 2025 12:37
Operator : JC\MD
Sample : Q1062-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VPB190A-HYD-20250107

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085455.D
Acq On : 15 Jan 2025 12:37
Operator : JC\MD
Sample : Q1062-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VPB190A-HYD-20250107

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.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_N\Data\VN011525\
Data File : VN085455.D
Acq On : 15 Jan 2025 12:37
Operator : JC\MD
Sample : Q1062-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VPB190A-HYD-20250107

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260

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

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard 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:	01/07/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	01/09/25
Client Sample ID:	BP-VPB-190A-EB-20250107	SDG No.:	Q1062
Lab Sample ID:	Q1062-03	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:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085454.D	1		01/15/25 12:14	VN011525

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:	01/07/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	01/09/25
Client Sample ID:	BP-VPB-190A-EB-20250107	SDG No.:	Q1062
Lab Sample ID:	Q1062-03	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:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085454.D	1		01/15/25 12:14	VN011525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	53.6		81 - 118		107%	SPK: 50
1868-53-7	Dibromofluoromethane	50.8		80 - 119		102%	SPK: 50
2037-26-5	Toluene-d8	50.0		89 - 112		100%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.6		85 - 114		93%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	185000	8.224				
540-36-3	1,4-Difluorobenzene	337000	9.1				
3114-55-4	Chlorobenzene-d5	298000	11.865				
3855-82-1	1,4-Dichlorobenzene-d4	118000	13.788				
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:	01/07/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	01/09/25
Client Sample ID:	BP-VPB-190A-EB-20250107	SDG No.:	Q1062
Lab Sample ID:	Q1062-03	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:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085454.D	1		01/15/25 12:14	VN011525

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_N\Data\VN011525\
Data File : VN085454.D
Acq On : 15 Jan 2025 12:14
Operator : JC\MD
Sample : Q1062-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190A-EB-20250107

Quant Time: Jan 16 00:56:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

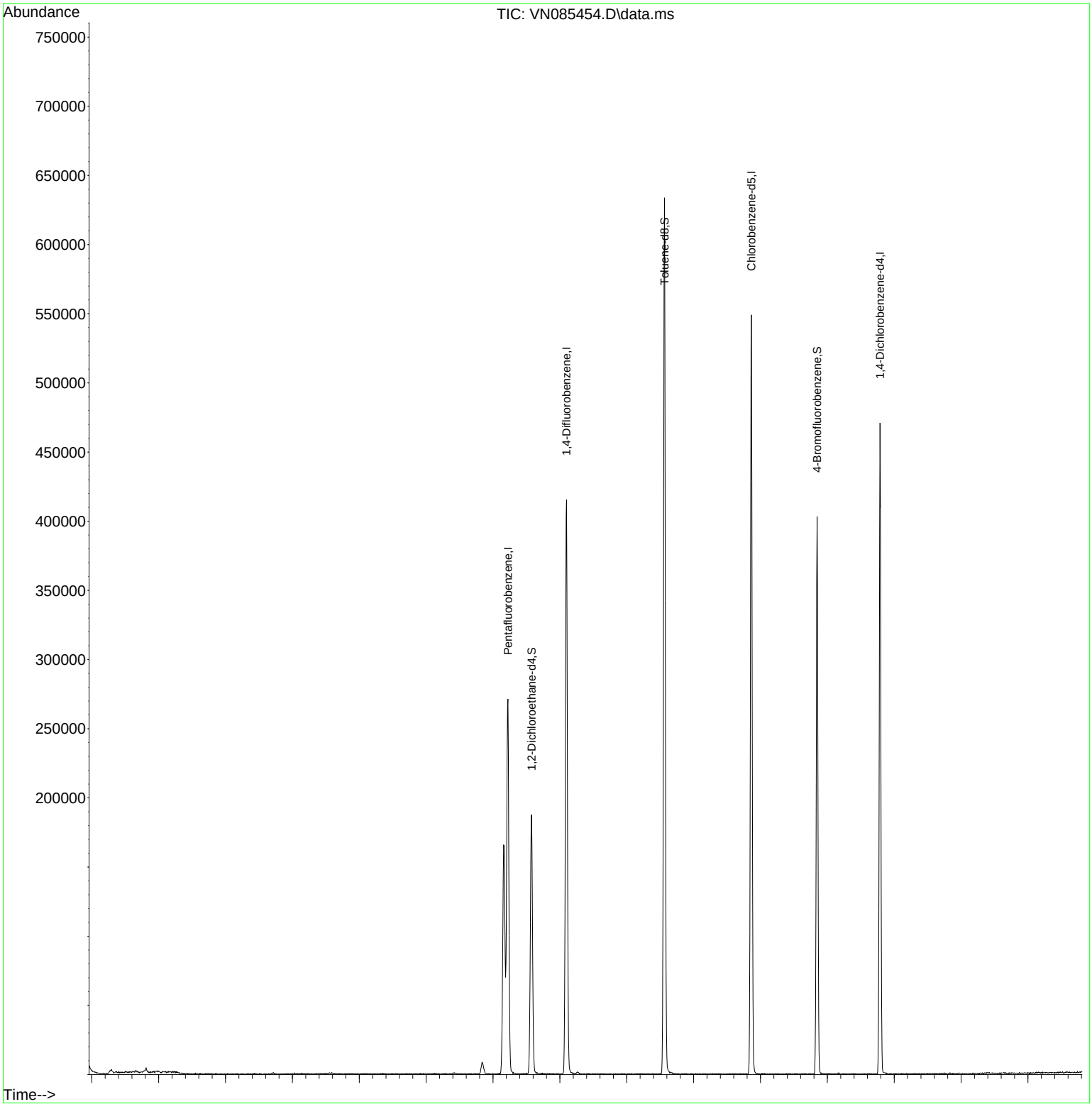
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	185335	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	337105	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	298295	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	117680	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	160466	53.637	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 107.280%			
35) Dibromofluoromethane	8.159	113	118687	50.750	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.500%			
50) Toluene-d8	10.565	98	415115	49.958	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.920%			
62) 4-Bromofluorobenzene	12.847	95	132424	46.589	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 93.180%			
Target Compounds						Qvalue
29) Tetrahydrofuran	7.835	42	5881	6.521	ug/l	97

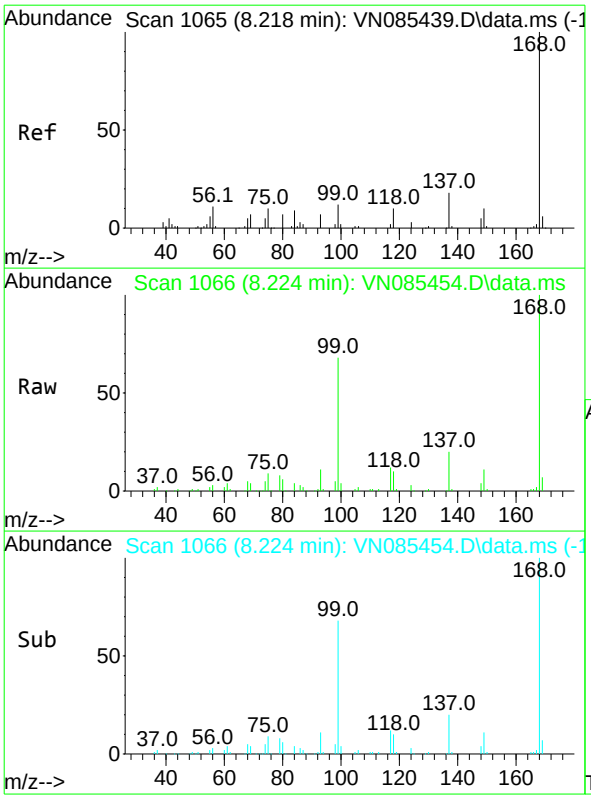
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085454.D
Acq On : 15 Jan 2025 12:14
Operator : JC\MD
Sample : Q1062-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190A-EB-20250107

Quant Time: Jan 16 00:56:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration



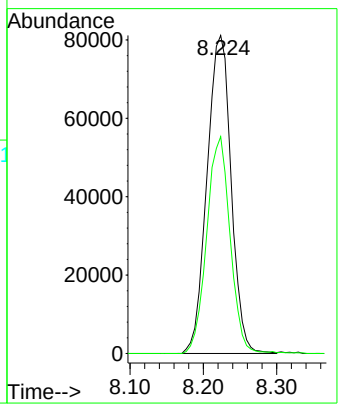


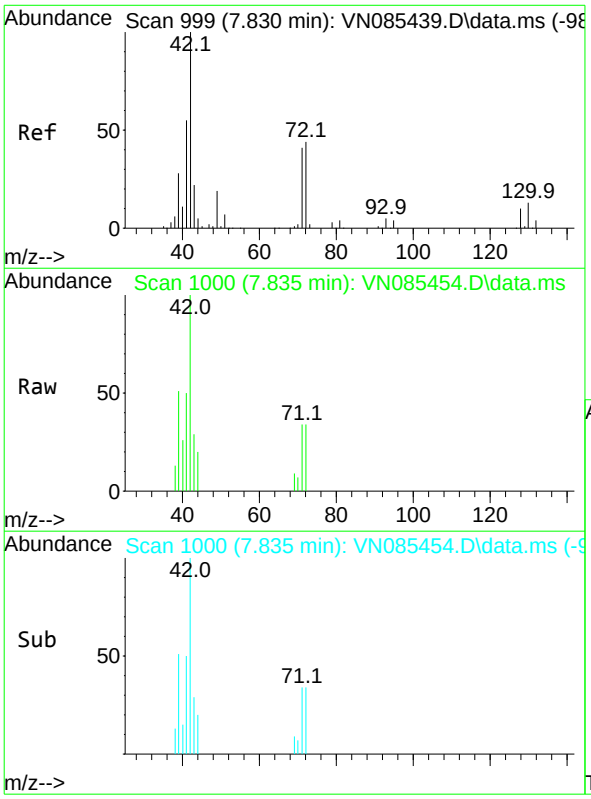
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085454.D
Acq: 15 Jan 2025 12:14

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190A-EB-20250107

Tgt Ion:168 Resp: 185335

Ion	Ratio	Lower	Upper
168	100		
99	68.2	53.6	80.4

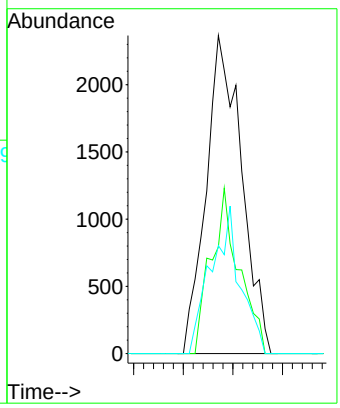


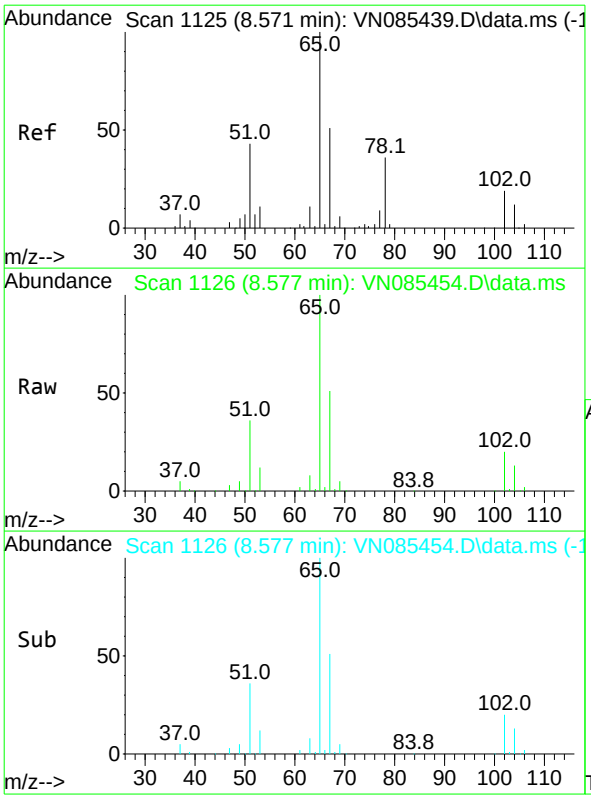


#29
Tetrahydrofuran
Concen: 6.521 ug/l
RT: 7.835 min Scan# 1000
Delta R.T. 0.006 min
Lab File: VN085454.D
Acq: 15 Jan 2025 12:14

Tgt Ion: 42 Resp: 5881

Ion	Ratio	Lower	Upper
42	100		
72	41.1	34.2	51.2
71	38.2	32.5	48.7



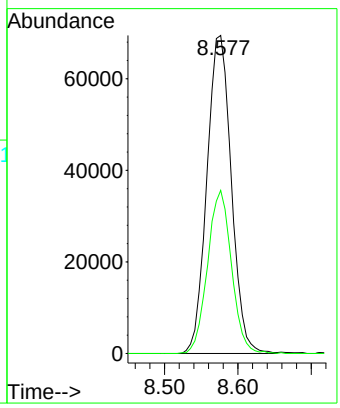


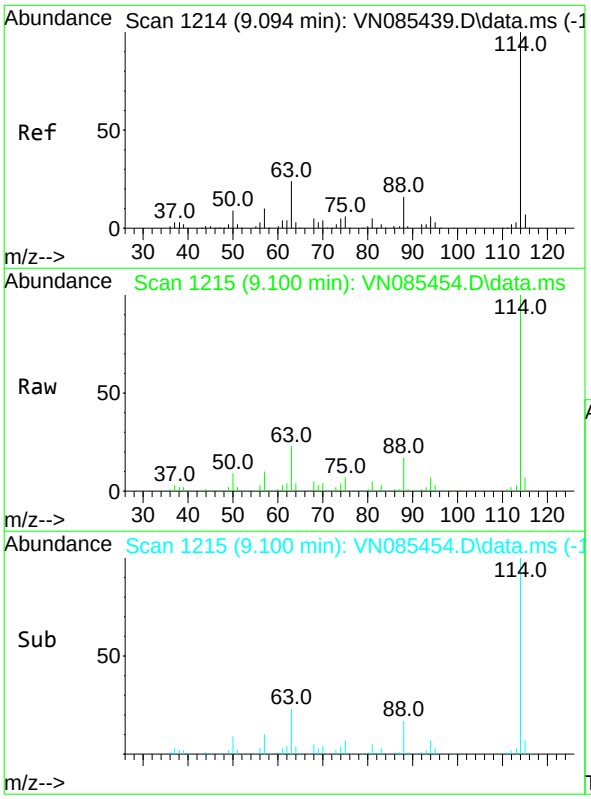
#33
1,2-Dichloroethane-d4
Concen: 53.637 ug/l
RT: 8.577 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN085454.D
Acq: 15 Jan 2025 12:14

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190A-EB-20250107

Tgt Ion: 65 Resp: 160466

Ion	Ratio	Lower	Upper
65	100		
67	50.3	0.0	101.6

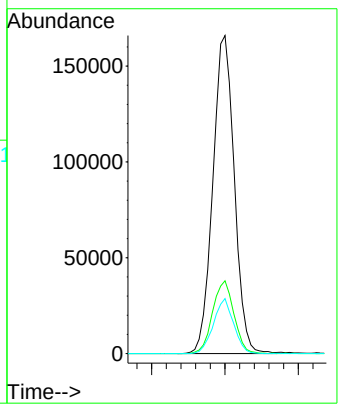


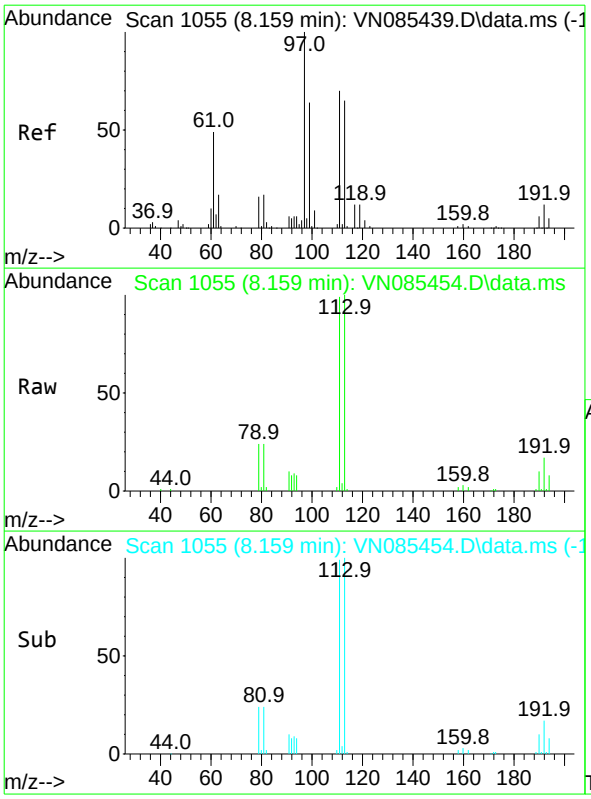


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.006 min
Lab File: VN085454.D
Acq: 15 Jan 2025 12:14

Tgt Ion:114 Resp: 337105

Ion	Ratio	Lower	Upper
114	100		
63	22.9	0.0	47.6
88	17.3	0.0	32.6



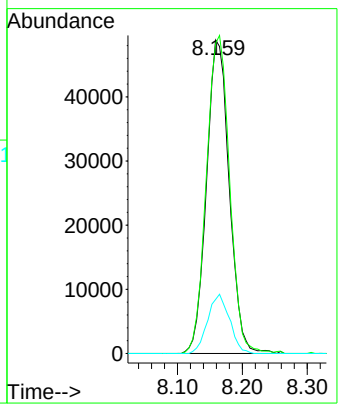


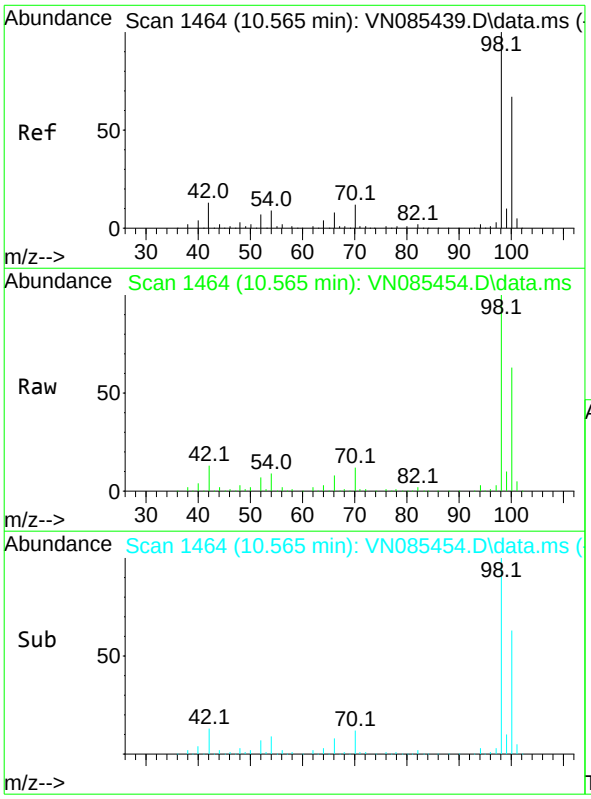
#35
Dibromofluoromethane
Concen: 50.750 ug/l
RT: 8.159 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN085454.D
Acq: 15 Jan 2025 12:14

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190A-EB-20250107

Tgt Ion:113 Resp: 118687

Ion	Ratio	Lower	Upper
113	100		
111	103.8	82.7	124.1
192	18.2	14.3	21.5

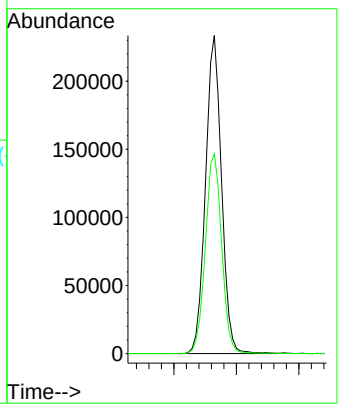


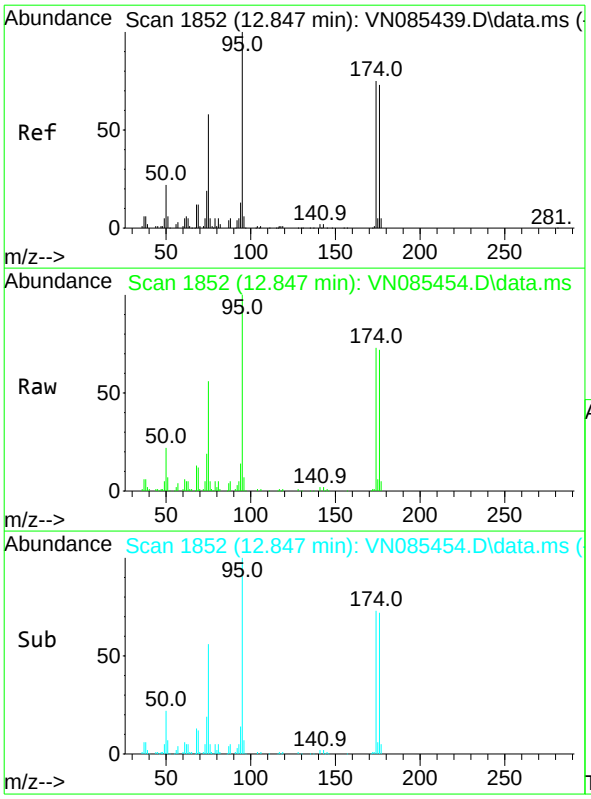


#50
Toluene-d8
Concen: 49.958 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN085454.D
Acq: 15 Jan 2025 12:14

Tgt Ion: 98 Resp: 415115

Ion	Ratio	Lower	Upper
98	100		
100	64.2	52.2	78.4



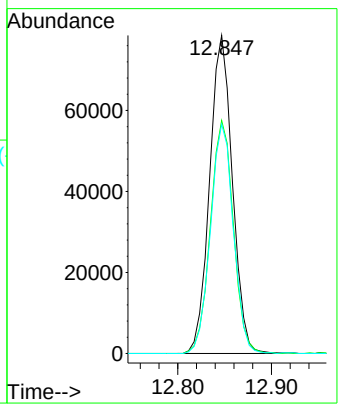


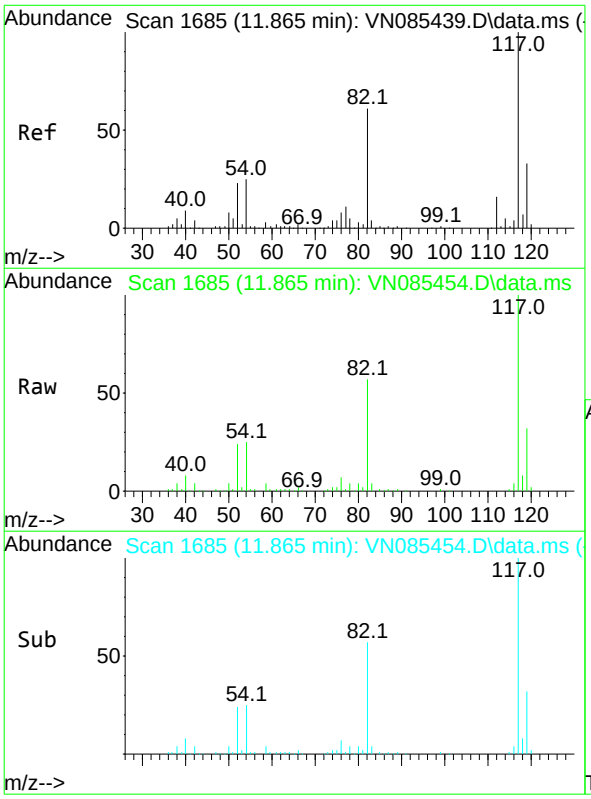
#62
4-Bromofluorobenzene
Concen: 46.589 ug/l
RT: 12.847 min Scan# 18
Delta R.T. -0.000 min
Lab File: VN085454.D
Acq: 15 Jan 2025 12:14

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190A-EB-20250107

Tgt Ion: 95 Resp: 132424

Ion	Ratio	Lower	Upper
95	100		
174	74.1	0.0	145.0
176	72.4	0.0	142.4

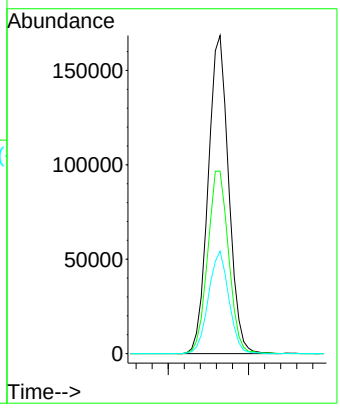


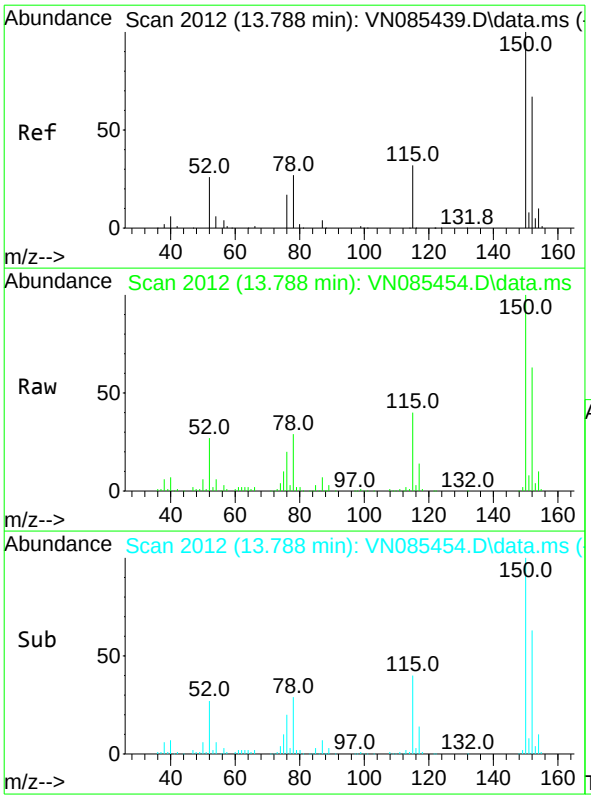


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN085454.D
Acq: 15 Jan 2025 12:14

Tgt Ion:117 Resp: 298295

Ion	Ratio	Lower	Upper
117	100		
82	57.4	48.6	72.8
119	32.2	26.6	39.8



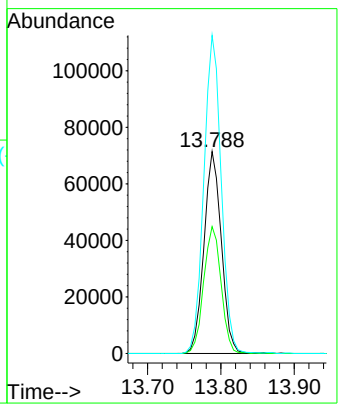


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN085454.D
Acq: 15 Jan 2025 12:14

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190A-EB-20250107

Tgt Ion:152 Resp: 117680

Ion	Ratio	Lower	Upper
152	100		
115	62.7	31.1	93.3
150	157.4	0.0	343.6



Sample Results: **VN085454.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085454.D
Acq On : 15 Jan 2025 12:14
Operator : JC\MD
Sample : Q1062-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190A-EB-20250107

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_N\methods\82N011425W.M
Title : SW846 8260

Signal : TIC: VN085454.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	7.835	992	1000	1011	rBV4	8508	22583	1.98%	0.385%
2	8.159	1046	1055	1060	rBV	165500	398963	35.07%	6.797%
3	8.224	1060	1066	1079	rVB	270836	614082	53.98%	10.462%
4	8.577	1116	1126	1139	rBV	187250	425831	37.43%	7.255%
5	9.100	1204	1215	1230	rBV	415156	845739	74.34%	14.409%
6	10.565	1455	1464	1477	rBV	633282	1137700	100.00%	19.383%
7	11.865	1676	1685	1698	rBV	549003	977351	85.91%	16.651%
8	12.847	1845	1852	1862	rBV	402935	679332	59.71%	11.574%
9	13.788	2005	2012	2028	rBV	470615	768078	67.51%	13.086%

Sum of corrected areas: 5869659

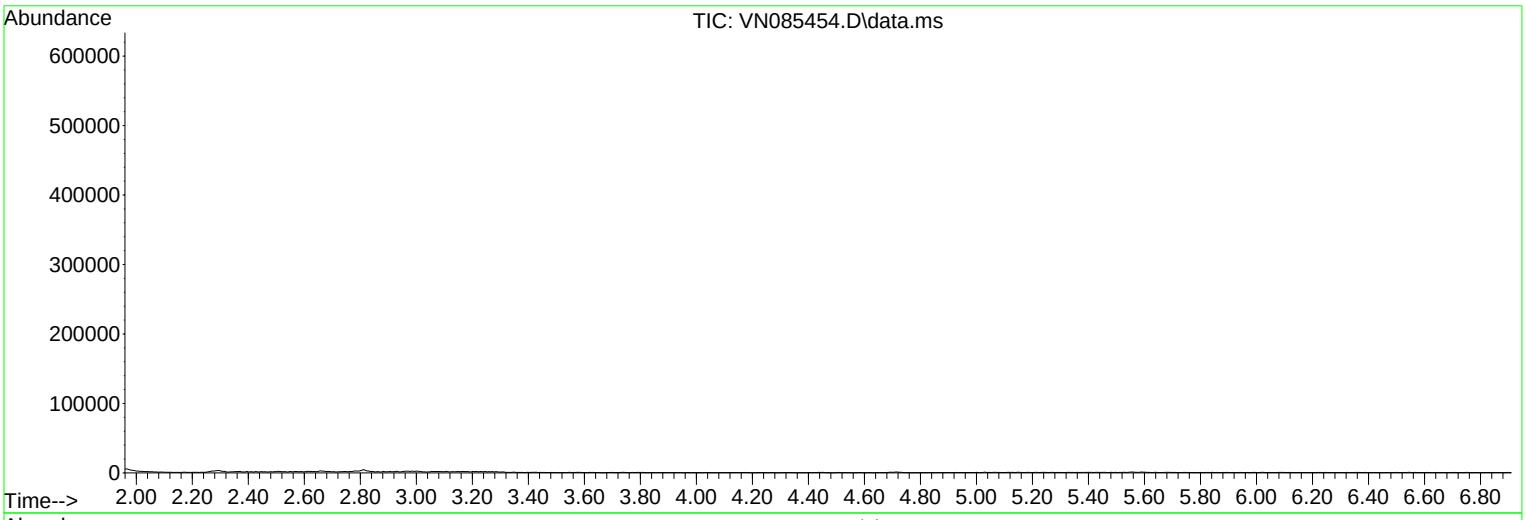
Sample Results: **VN085454.D**

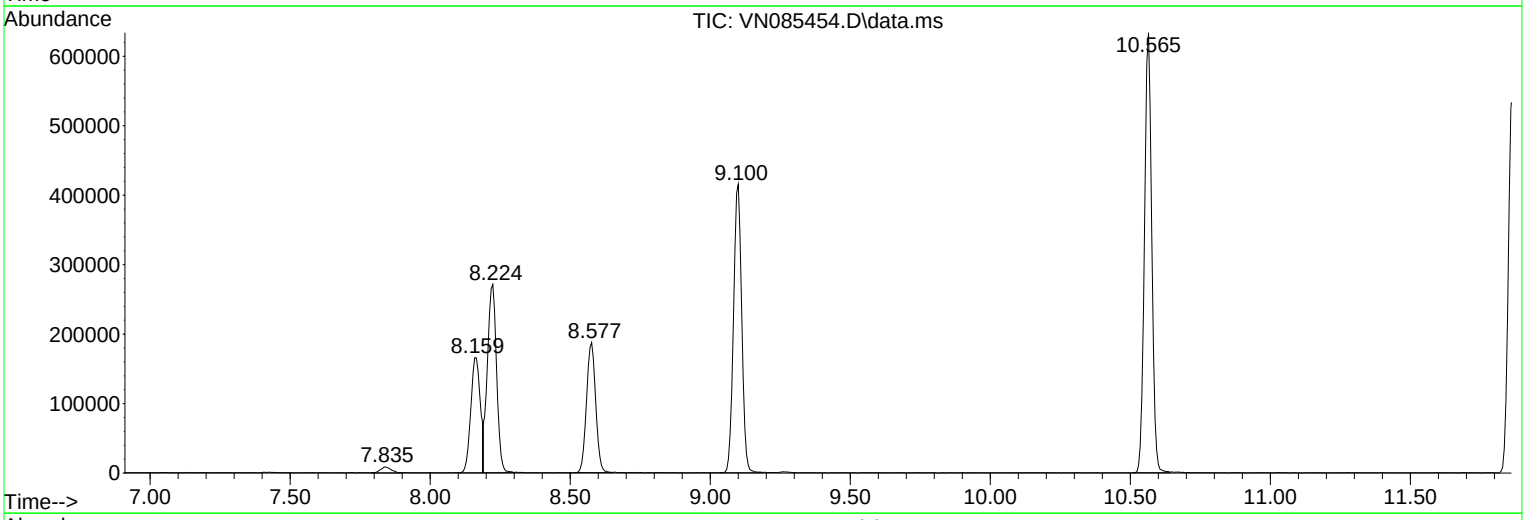
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085454.D
Acq On : 15 Jan 2025 12:14
Operator : JC\MD
Sample : Q1062-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

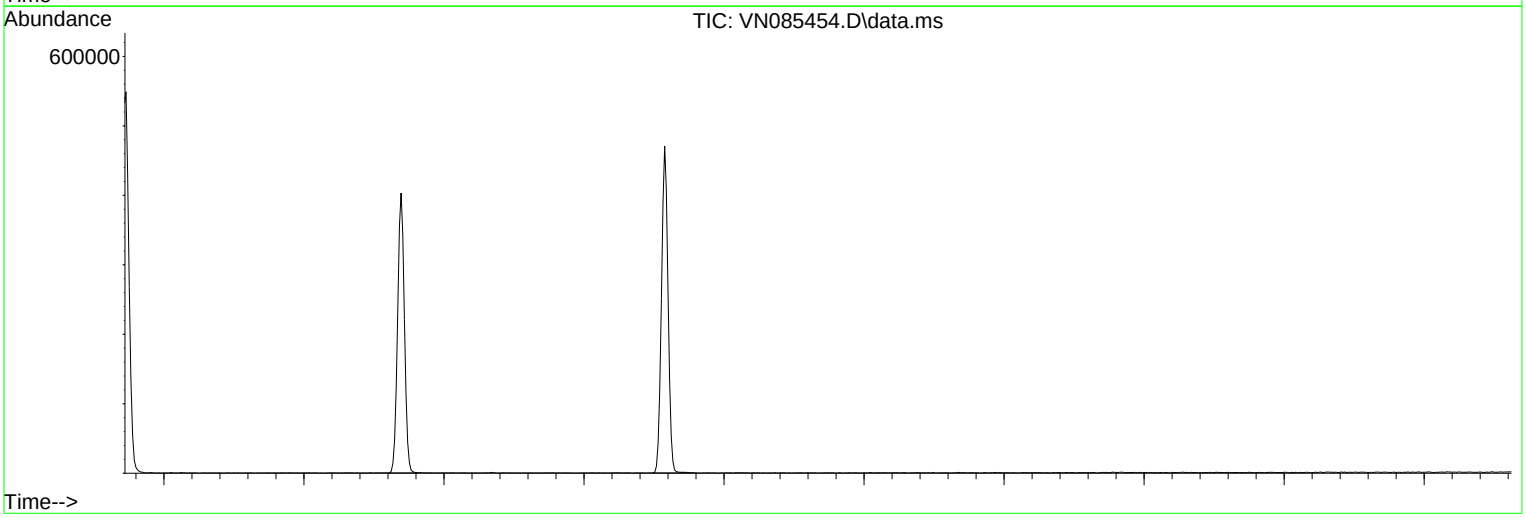
Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190A-EB-20250107

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260

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







Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085454.D
Acq On : 15 Jan 2025 12:14
Operator : JC\MD
Sample : Q1062-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190A-EB-20250107

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.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_N\Data\VN011525\
Data File : VN085454.D
Acq On : 15 Jan 2025 12:14
Operator : JC\MD
Sample : Q1062-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190A-EB-20250107

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.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:	01/07/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	01/09/25
Client Sample ID:	BP-VPB-190A-GW-898-900	SDG No.:	Q1062
Lab Sample ID:	Q1062-04	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:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085452.D	10		01/15/25 11:26	VN011525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	5.00	U	3.50	5.00	10.0	ug/L
75-01-4	Vinyl Chloride	7.50	U	3.40	7.50	10.0	ug/L
74-83-9	Bromomethane	37.5	U	13.6	37.5	50.0	ug/L
75-00-3	Chloroethane	7.50	U	5.60	7.50	10.0	ug/L
75-69-4	Trichlorofluoromethane	5.00	U	3.40	5.00	10.0	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	5.00	U	2.50	5.00	10.0	ug/L
75-35-4	1,1-Dichloroethene	7.50	U	2.60	7.50	10.0	ug/L
67-64-1	Acetone	37.5	U	13.9	37.5	50.0	ug/L
75-15-0	Carbon Disulfide	7.50	U	3.20	7.50	10.0	ug/L
1634-04-4	Methyl tert-butyl Ether	5.00	U	1.60	5.00	10.0	ug/L
75-09-2	Methylene Chloride	5.00	U	3.20	5.00	10.0	ug/L
156-60-5	trans-1,2-Dichloroethene	5.00	U	2.50	5.00	10.0	ug/L
75-34-3	1,1-Dichloroethane	5.00	U	2.30	5.00	10.0	ug/L
78-93-3	2-Butanone	25.0	U	13.0	25.0	50.0	ug/L
56-23-5	Carbon Tetrachloride	5.00	U	2.50	5.00	10.0	ug/L
156-59-2	cis-1,2-Dichloroethene	7.50	U	2.50	7.50	10.0	ug/L
67-66-3	Chloroform	5.00	U	2.60	5.00	10.0	ug/L
71-55-6	1,1,1-Trichloroethane	5.00	U	1.90	5.00	10.0	ug/L
108-87-2	Methylcyclohexane	5.00	U	1.90	5.00	10.0	ug/L
71-43-2	Benzene	5.00	U	1.60	5.00	10.0	ug/L
107-06-2	1,2-Dichloroethane	5.00	U	2.40	5.00	10.0	ug/L
79-01-6	Trichloroethene	7.50	U	3.20	7.50	10.0	ug/L
78-87-5	1,2-Dichloropropane	5.00	U	1.90	5.00	10.0	ug/L
75-27-4	Bromodichloromethane	5.00	U	2.40	5.00	10.0	ug/L
108-10-1	4-Methyl-2-Pentanone	25.0	U	7.50	25.0	50.0	ug/L
108-88-3	Toluene	5.00	U	1.80	5.00	10.0	ug/L
10061-02-6	t-1,3-Dichloropropene	5.00	U	2.10	5.00	10.0	ug/L
10061-01-5	cis-1,3-Dichloropropene	5.00	U	1.80	5.00	10.0	ug/L
79-00-5	1,1,2-Trichloroethane	5.00	U	2.10	5.00	10.0	ug/L
591-78-6	2-Hexanone	25.0	U	11.3	25.0	50.0	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:	01/07/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	01/09/25
Client Sample ID:	BP-VPB-190A-GW-898-900	SDG No.:	Q1062
Lab Sample ID:	Q1062-04	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:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085452.D	10		01/15/25 11:26	VN011525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	5.00	U	1.80	5.00	10.0	ug/L
127-18-4	Tetrachloroethene	5.00	U	2.50	5.00	10.0	ug/L
108-90-7	Chlorobenzene	5.00	U	1.30	5.00	10.0	ug/L
100-41-4	Ethyl Benzene	5.00	U	1.60	5.00	10.0	ug/L
179601-23-1	m/p-Xylenes	10.0	U	3.10	10.0	20.0	ug/L
95-47-6	o-Xylene	5.00	U	1.40	5.00	10.0	ug/L
100-42-5	Styrene	5.00	U	1.60	5.00	10.0	ug/L
75-25-2	Bromoform	5.00	U	2.10	5.00	10.0	ug/L
98-82-8	Isopropylbenzene	5.00	U	1.30	5.00	10.0	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	5.00	U	2.70	5.00	10.0	ug/L
541-73-1	1,3-Dichlorobenzene	5.00	U	2.40	5.00	10.0	ug/L
106-46-7	1,4-Dichlorobenzene	5.00	U	2.70	5.00	10.0	ug/L
95-50-1	1,2-Dichlorobenzene	5.00	U	1.90	5.00	10.0	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	52.8		81 - 118		106%	SPK: 50
1868-53-7	Dibromofluoromethane	52.0		80 - 119		104%	SPK: 50
2037-26-5	Toluene-d8	49.3		89 - 112		99%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.3		85 - 114		93%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	175000	8.218				
540-36-3	1,4-Difluorobenzene	316000	9.1				
3114-55-4	Chlorobenzene-d5	274000	11.865				
3855-82-1	1,4-Dichlorobenzene-d4	108000	13.788				
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:	01/07/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	01/09/25
Client Sample ID:	BP-VPB-190A-GW-898-900	SDG No.:	Q1062
Lab Sample ID:	Q1062-04	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:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085452.D	10		01/15/25 11:26	VN011525

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_N\Data\VN011525\
Data File : VN085452.D
Acq On : 15 Jan 2025 11:26
Operator : JC\MD
Sample : Q1062-04 10X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190A-GW-898-900

Quant Time: Jan 16 00:55:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

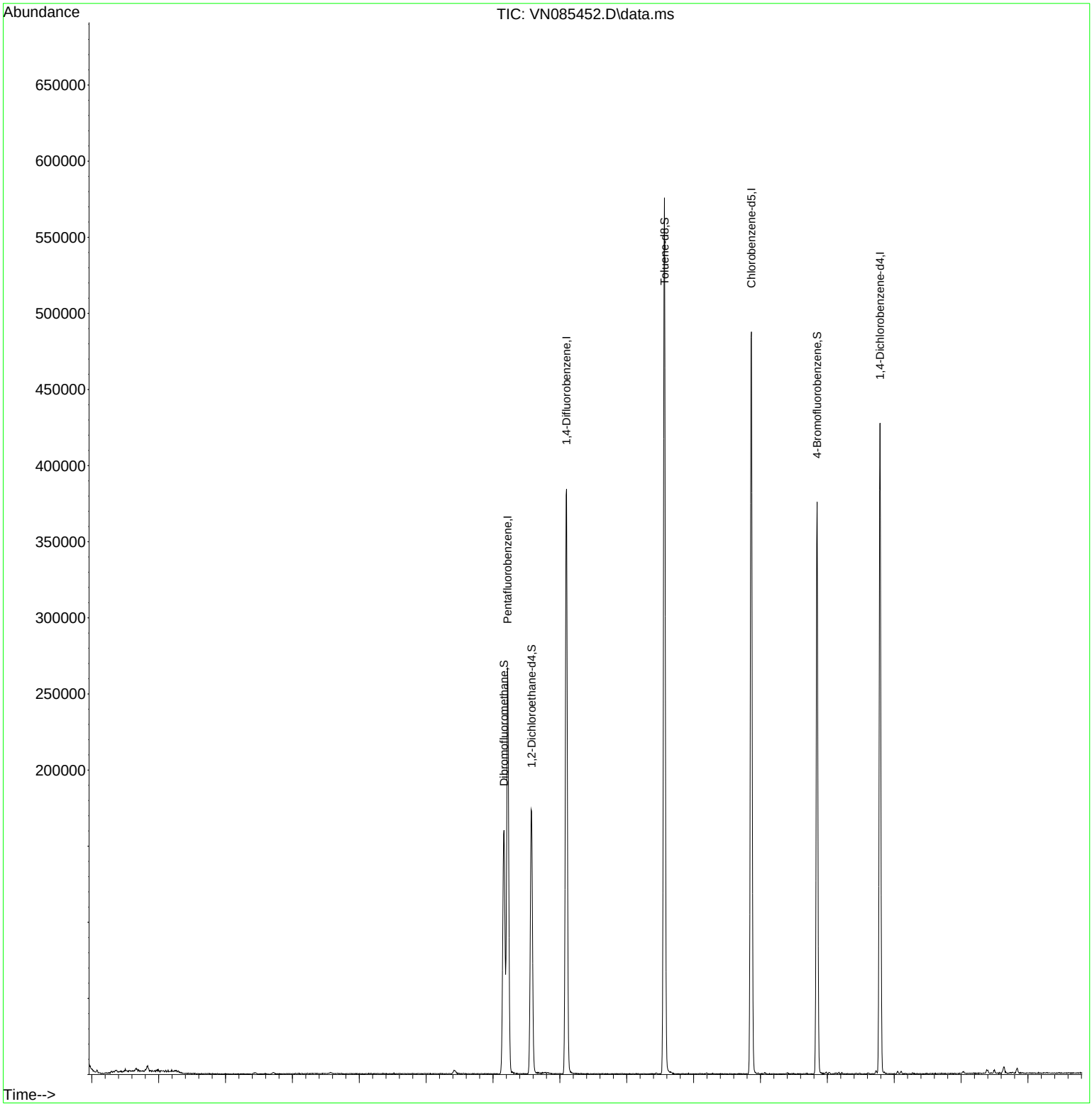
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.218	168	175474	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	316452	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	274227	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	107831	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	149471	52.770	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 105.540%			
35) Dibromofluoromethane	8.165	113	114177	52.007	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.020%			
50) Toluene-d8	10.565	98	384211	49.257	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 98.520%			
62) 4-Bromofluorobenzene	12.847	95	123439	46.262	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 92.520%			
Target Compounds						Qvalue

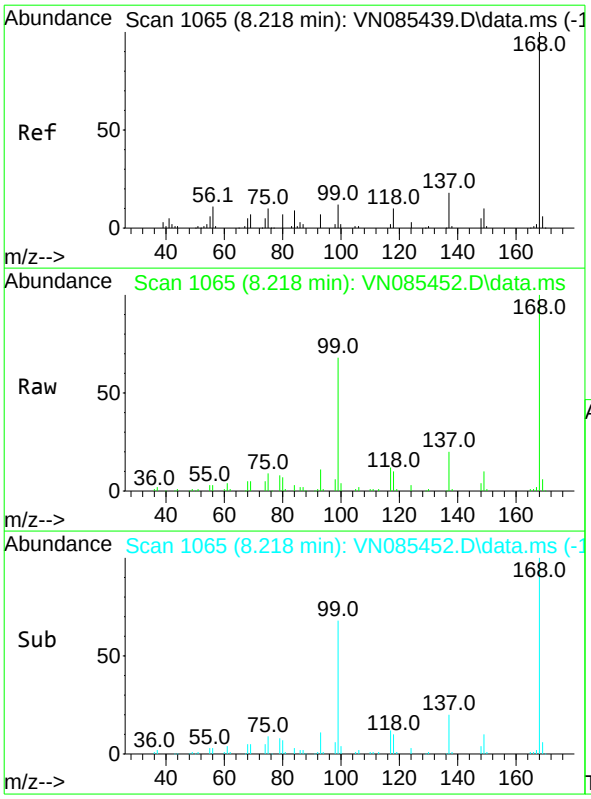
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085452.D
Acq On : 15 Jan 2025 11:26
Operator : JC\MD
Sample : Q1062-04 10X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190A-GW-898-900

Quant Time: Jan 16 00:55:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration



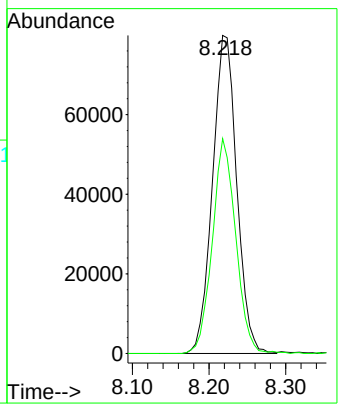


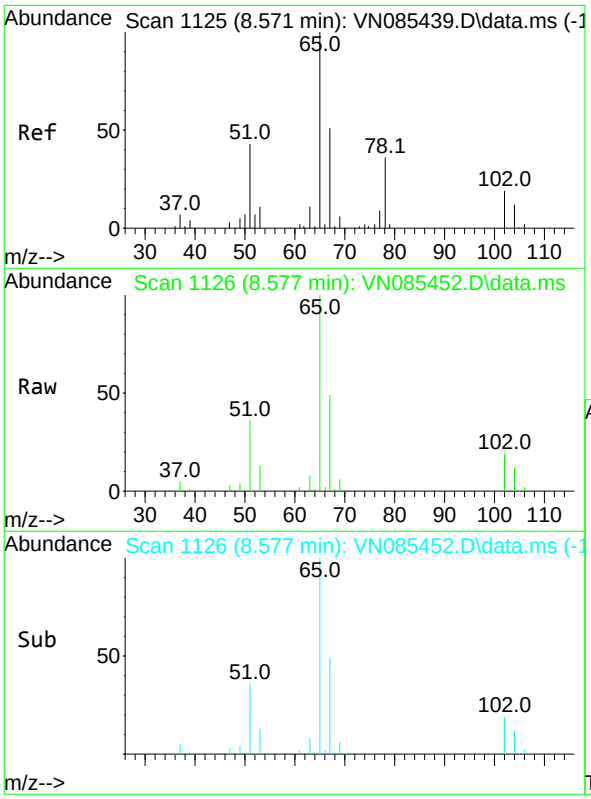
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN085452.D
Acq: 15 Jan 2025 11:26

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190A-GW-898-900

Tgt Ion:168 Resp: 175474

Ion	Ratio	Lower	Upper
168	100		
99	67.5	53.6	80.4

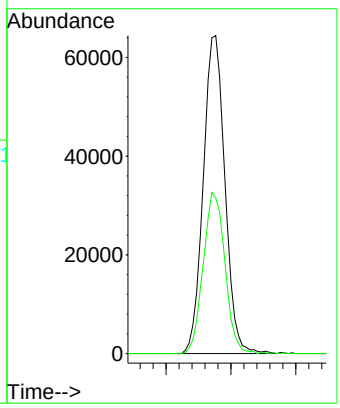


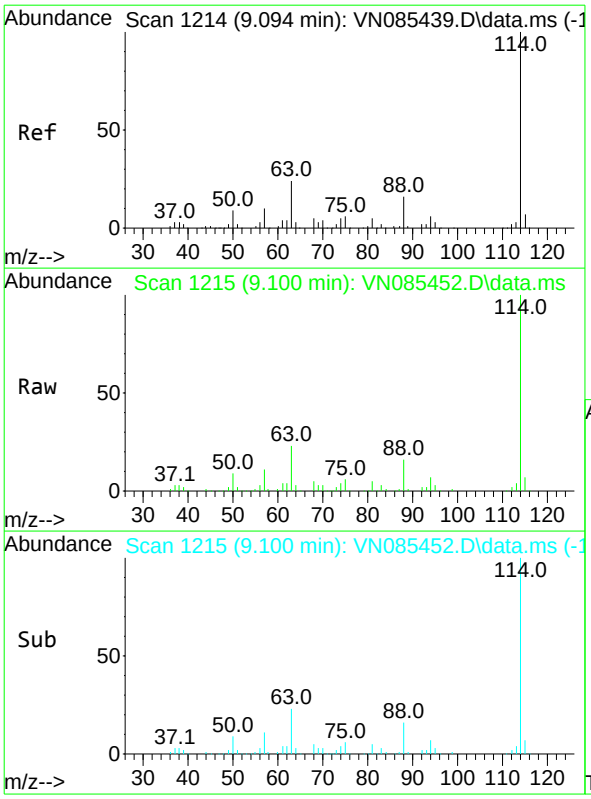


#33
1,2-Dichloroethane-d4
Concen: 52.770 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.006 min
Lab File: VN085452.D
Acq: 15 Jan 2025 11:26

Tgt Ion: 65 Resp: 149471

Ion	Ratio	Lower	Upper
65	100		
67	50.8	0.0	101.6



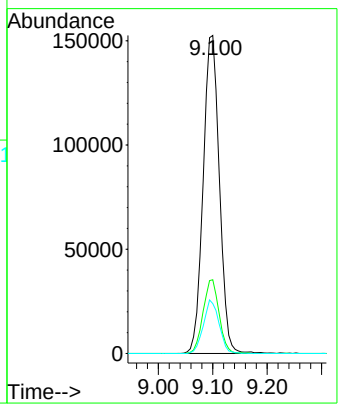


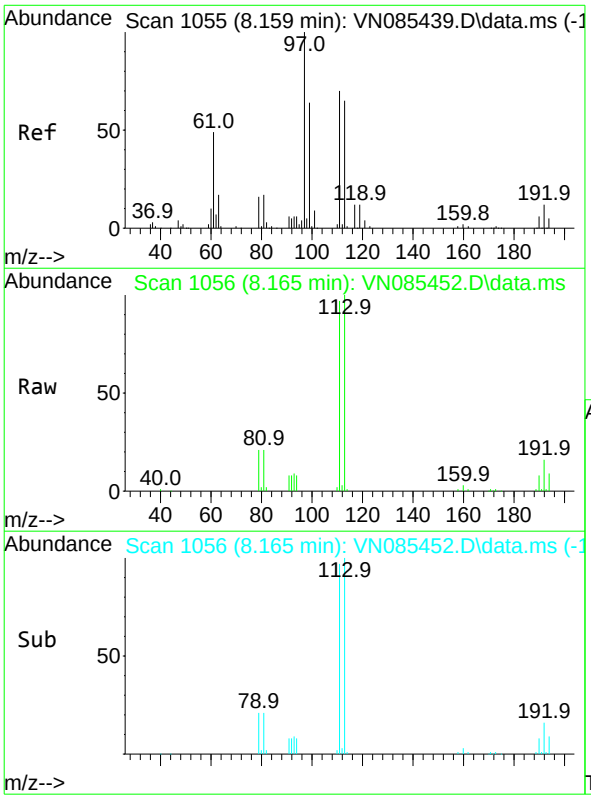
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 12
Delta R.T. 0.006 min
Lab File: VN085452.D
Acq: 15 Jan 2025 11:26

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190A-GW-898-900

Tgt Ion:114 Resp: 316452

Ion	Ratio	Lower	Upper
114	100		
63	23.2	0.0	47.6
88	15.7	0.0	32.6

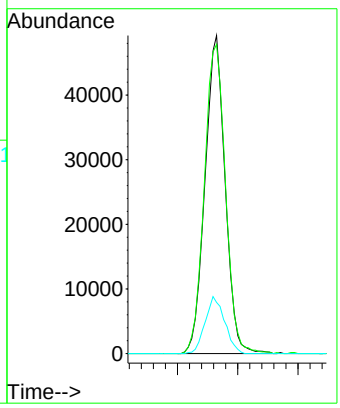


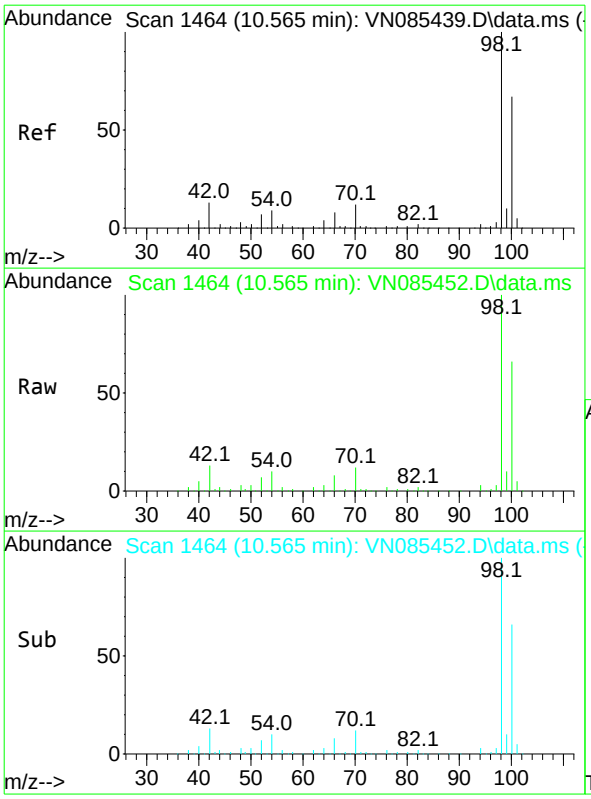


#35
Dibromofluoromethane
Concen: 52.007 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VN085452.D
Acq: 15 Jan 2025 11:26

Tgt Ion:113 Resp: 114177

Ion	Ratio	Lower	Upper
113	100		
111	102.3	82.7	124.1
192	17.4	14.3	21.5



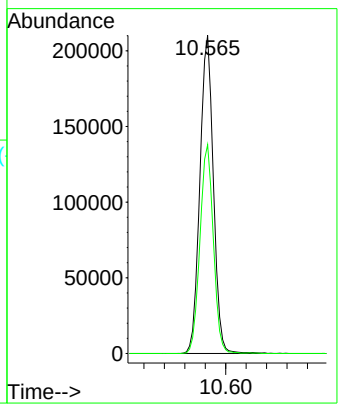


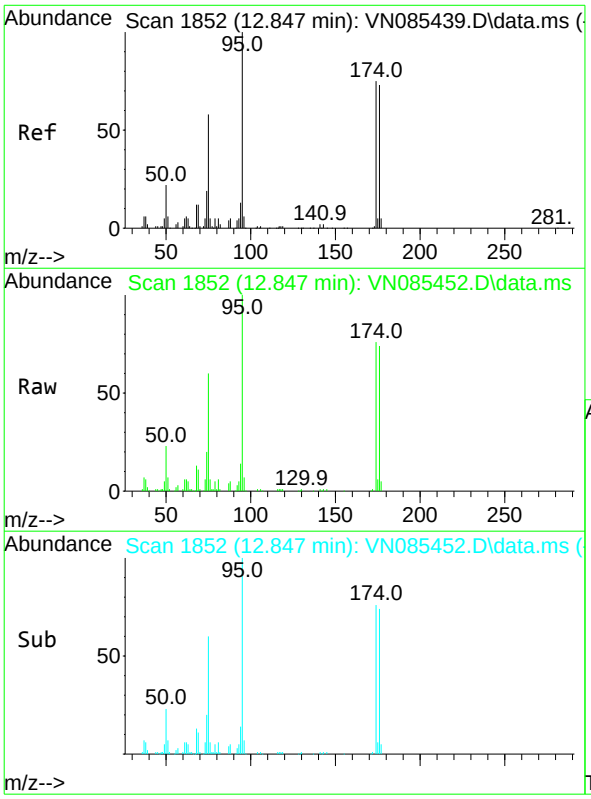
#50
Toluene-d8
Concen: 49.257 ug/l
RT: 10.565 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN085452.D
Acq: 15 Jan 2025 11:26

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190A-GW-898-900

Tgt Ion: 98 Resp: 384211

Ion	Ratio	Lower	Upper
98	100		
100	65.2	52.2	78.4

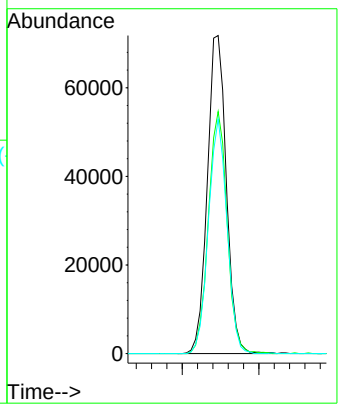


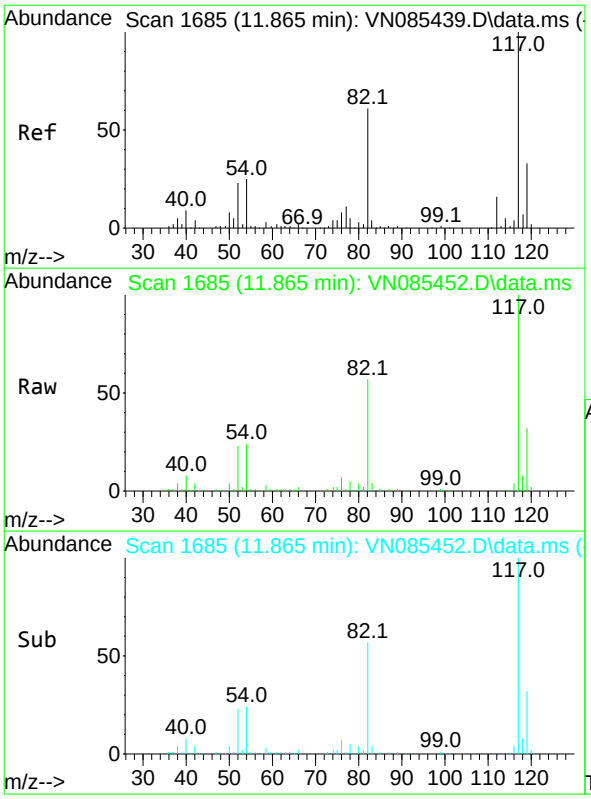


#62
4-Bromofluorobenzene
Concen: 46.262 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085452.D
Acq: 15 Jan 2025 11:26

Tgt Ion: 95 Resp: 123439

Ion	Ratio	Lower	Upper
95	100		
174	75.2	0.0	145.0
176	71.6	0.0	142.4



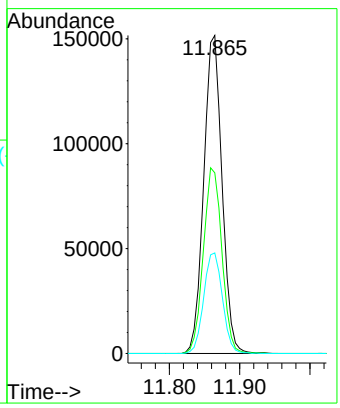


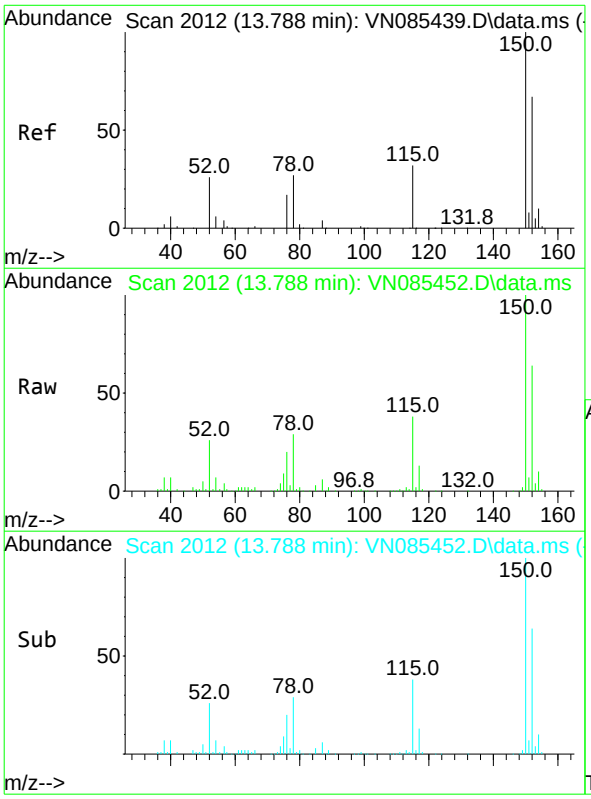
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 16
Delta R.T. -0.000 min
Lab File: VN085452.D
Acq: 15 Jan 2025 11:26

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190A-GW-898-900

Tgt Ion:117 Resp: 274227

Ion	Ratio	Lower	Upper
117	100		
82	56.8	48.6	72.8
119	31.6	26.6	39.8

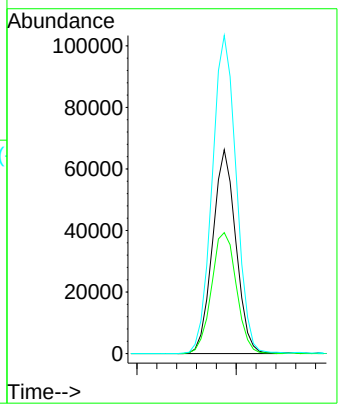




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN085452.D
Acq: 15 Jan 2025 11:26

Tgt Ion:152 Resp: 107831

Ion	Ratio	Lower	Upper
152	100		
115	63.6	31.1	93.3
150	161.7	0.0	343.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085452.D
Acq On : 15 Jan 2025 11:26
Operator : JC\MD
Sample : Q1062-04 10X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190A-GW-898-900

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_N\methods\82N011425W.M
Title : SW846 8260

Signal : TIC: VN085452.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	8.165	1045	1056	1060	rBV	160002	381798	36.03%	6.999%
2	8.218	1060	1065	1075	rVB	266188	573730	54.15%	10.518%
3	8.571	1115	1125	1137	rBV	173693	402386	37.98%	7.376%
4	9.100	1206	1215	1225	rBV	384225	791898	74.74%	14.517%
5	10.565	1454	1464	1477	rBV	575573	1059570	100.00%	19.424%
6	11.865	1677	1685	1699	rBV	487436	898496	84.80%	16.471%
7	12.847	1844	1852	1861	rBV	375524	631058	59.56%	11.568%
8	13.788	2005	2012	2022	rBV	426837	716043	67.58%	13.126%

Sum of corrected areas: 5454979

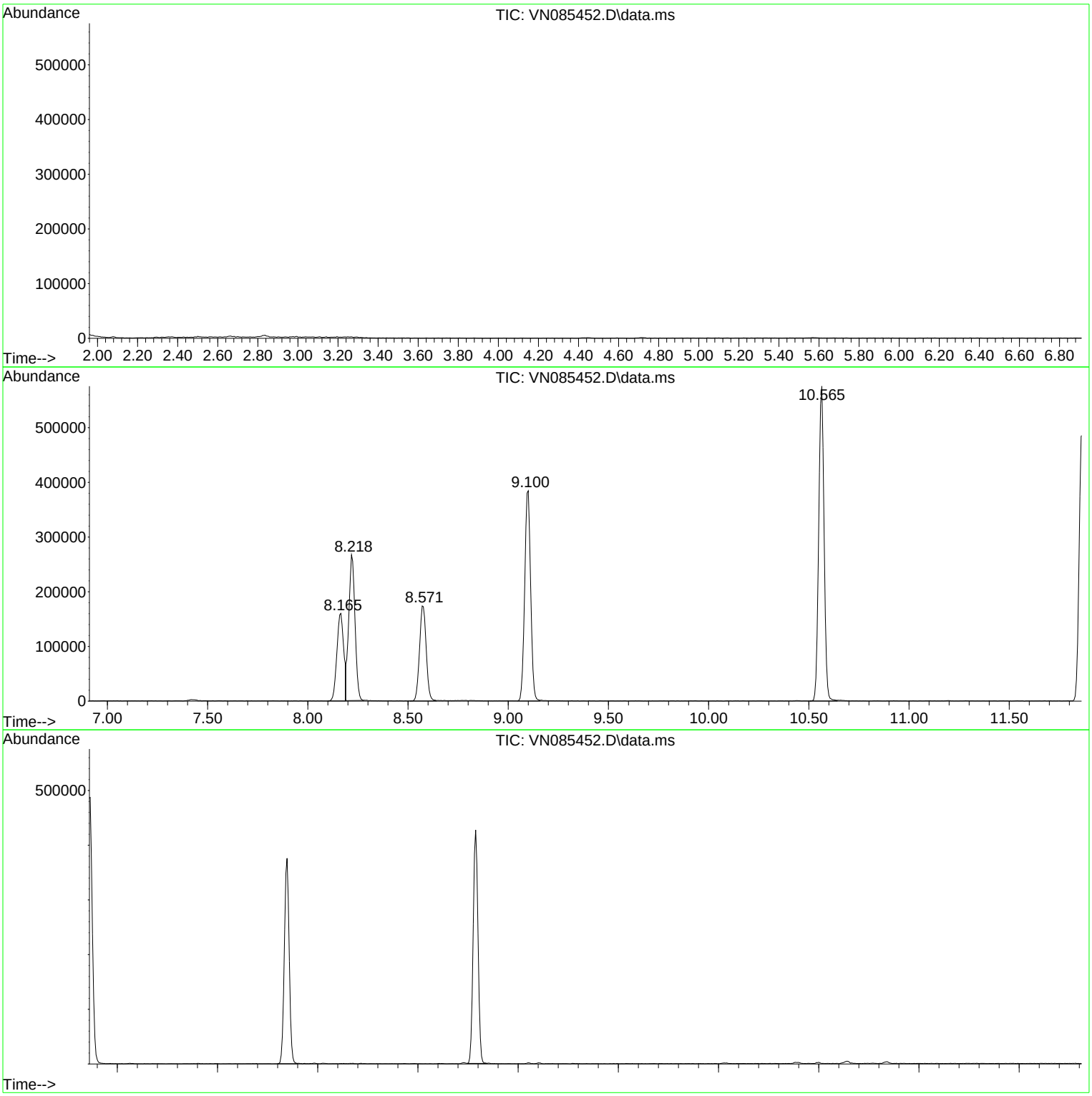
Sample Results: **VN085452.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085452.D
Acq On : 15 Jan 2025 11:26
Operator : JC\MD
Sample : Q1062-04 10X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190A-GW-898-900

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085452.D
Acq On : 15 Jan 2025 11:26
Operator : JC\MD
Sample : Q1062-04 10X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190A-GW-898-900

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.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_N\Data\VN011525\
Data File : VN085452.D
Acq On : 15 Jan 2025 11:26
Operator : JC\MD
Sample : Q1062-04 10X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190A-GW-898-900

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.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.: Q1062 SAS No.: Q1062 SDG No.: Q1062

Instrument ID: MSVOA_N Calibration Date(s): 01/14/2025 01/14/2025

Heated Purge: (Y/N) N Calibration Time(s): 14:56 17:19

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID: RRF100 = VN085438.D RRF050 = VN085439.D RRF020 = VN085440.D
RRF010 = VN085441.D RRF005 = VN085442.D RRF001 = VN085443.D

COMPOUND	RRF100	RRF050	RRF020	RRF010	RRF005	RRF001	$\overline{RRF}$	% RSD
Chloromethane	0.680	0.680	0.727	0.693	0.779	0.839	0.733	8.8
Vinyl Chloride	0.697	0.686	0.727	0.711	0.781	0.819	0.737	7.1
Bromomethane	0.392	0.417	0.454	0.437	0.525		0.445	11.3
Chloroethane	0.435	0.424	0.468	0.429	0.505	0.542	0.467	10.3
Trichlorofluoromethane	1.046	0.997	1.097	1.040	1.077	1.157	1.069	5.1
1,1,2-Trichlorotrifluoroethane	0.590	0.542	0.609	0.587	0.639	0.646	0.602	6.4
1,1-Dichloroethene	0.548	0.533	0.556	0.526	0.559	0.497	0.537	4.3
Acetone	0.238	0.252	0.252	0.247	0.269	0.306	0.261	9.3
Carbon Disulfide	1.555	1.477	1.647	1.537	1.719	1.978	1.652	11
Methyl tert-butyl Ether	1.834	1.873	1.853	1.664	1.685	1.545	1.742	7.5
Methylene Chloride	0.629	0.629	0.658	0.606	0.696	0.656	0.646	4.9
trans-1,2-Dichloroethene	0.571	0.555	0.574	0.539	0.569	0.632	0.573	5.5
1,1-Dichloroethane	1.164	1.170	1.206	1.100	1.226	1.204	1.178	3.8
2-Butanone	0.378	0.390	0.398	0.363	0.387	0.386	0.384	3.1
Carbon Tetrachloride	0.574	0.530	0.579	0.529	0.565	0.567	0.557	4
cis-1,2-Dichloroethene	0.691	0.683	0.715	0.639	0.669	0.655	0.675	4
Chloroform	1.197	1.175	1.241	1.169	1.253	1.273	1.218	3.6
1,1,1-Trichloroethane	1.053	1.016	1.091	1.000	1.148	1.102	1.068	5.2
Methylcyclohexane	0.564	0.463	0.477	0.407	0.437	0.397	0.457	13.3
Benzene	1.551	1.449	1.527	1.376	1.474	1.400	1.463	4.7
1,2-Dichloroethane	0.569	0.547	0.575	0.522	0.574	0.517	0.551	4.8
Trichloroethene	0.362	0.324	0.352	0.310	0.343	0.352	0.341	5.8
1,2-Dichloropropane	0.390	0.371	0.388	0.334	0.388	0.371	0.374	5.7
Bromodichloromethane	0.590	0.559	0.579	0.514	0.569	0.484	0.549	7.5
4-Methyl-2-Pentanone	0.499	0.492	0.495	0.432	0.443	0.380	0.457	10.3
Toluene	0.964	0.870	0.919	0.808	0.835	0.690	0.848	11.3
t-1,3-Dichloropropene	0.594	0.551	0.544	0.481	0.527	0.416	0.519	12
cis-1,3-Dichloropropene	0.623	0.588	0.601	0.527	0.538	0.450	0.554	11.4
1,1,2-Trichloroethane	0.348	0.340	0.353	0.309	0.349	0.314	0.335	5.7
2-Hexanone	0.358	0.357	0.353	0.298	0.302	0.261	0.321	12.6

* 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.: Q1062 SAS No.: Q1062 SDG No.: Q1062

Instrument ID: MSVOA_N Calibration Date(s): 01/14/2025 01/14/2025

Heated Purge: (Y/N) N Calibration Time(s): 14:56 17:19

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID: RRF100 = VN085438.D RRF050 = VN085439.D RRF020 = VN085440.D
RRF010 = VN085441.D RRF005 = VN085442.D RRF001 = VN085443.D

COMPOUND	RRF100	RRF050	RRF020	RRF010	RRF005	RRF001	$\overline{RRF}$	% RSD
Dibromochloromethane	0.430	0.414	0.412	0.368	0.420	0.386	0.405	5.8
Tetrachloroethene	0.351	0.322	0.365	0.338	0.346	0.323	0.341	4.9
Chlorobenzene	1.133	1.076	1.154	1.047	1.110	1.051	1.095	4
Ethyl Benzene	2.072	1.867	1.940	1.685	1.709	1.430	1.784	12.7
m/p-Xylenes	0.775	0.707	0.750	0.615	0.616	0.492	0.659	16
o-Xylene	0.738	0.681	0.713	0.584	0.582	0.482	0.630	15.5
Styrene	1.271	1.173	1.186	0.956	0.929	0.742	1.043	19.2
Bromoform	0.311	0.311	0.312	0.273	0.284	0.235	0.288	10.6
Isopropylbenzene	3.922	3.448	3.681	3.272	3.157	2.766	3.375	12.1
1,1,2,2-Tetrachloroethane	1.121	1.145	1.187	1.157	1.228	1.314	1.192	5.9
1,3-Dichlorobenzene	1.720	1.565	1.701	1.574	1.656	1.526	1.624	4.9
1,4-Dichlorobenzene	1.706	1.562	1.713	1.607	1.743	1.767	1.683	4.8
1,2-Dichlorobenzene	1.611	1.555	1.654	1.532	1.600	1.766	1.620	5.2
1,2-Dichloroethane-d4	0.774	0.831	0.754	0.762	0.914		0.807	8.3
Dibromofluoromethane	0.359	0.358	0.335	0.310	0.373		0.347	7.1
Toluene-d8	1.339	1.267	1.207	1.076	1.274		1.232	8.1
4-Bromofluorobenzene	0.475	0.449	0.410	0.357	0.417		0.422	10.6

* 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_N_NEW

Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
Method File : 82N011425W.M
Title : SW846 8260
Last Update : Wed Jan 15 02:16:08 2025
Response Via : Initial Calibration

Calibration Files
1 =VN085443.D 5 =VN085442.D 10 =VN085441.D 20 =VN085440.D 50 =VN085439.D 100 =VN085438.D

		Compound	1	5	10	20	50	100	Avg	%RSD
1)	I	Pentafluorobenzene	----------ISTD----------							
2)	T	Dichlorodifluo...	0.714	0.708	0.667	0.681	0.629	0.664	0.677	4.59
3)	P	Chloromethane	0.839	0.779	0.693	0.727	0.680	0.680	0.733	8.77
4)	C	Vinyl Chloride	0.819	0.781	0.711	0.727	0.686	0.697	0.737	7.06#
5)	T	Bromomethane		0.525	0.437	0.454	0.417	0.392	0.445	11.26
6)	T	Chloroethane	0.542	0.505	0.429	0.468	0.424	0.435	0.467	10.27
7)	T	Trichlorofluor...	1.157	1.077	1.040	1.097	0.997	1.046	1.069	5.14
8)	T	Diethyl Ether	0.457	0.357	0.317	0.363	0.360	0.362	0.369	12.59
9)	T	1,1,2-Trichlor...	0.646	0.639	0.587	0.609	0.542	0.590	0.602	6.35
10)	T	Methyl Iodide		0.661	0.640	0.704	0.719	0.723	0.690	5.35
11)	T	Tert butyl alc...		0.097	0.092	0.095	0.093	0.085	0.092	4.80
12)	CM	1,1-Dichloroet...	0.497	0.559	0.526	0.556	0.533	0.548	0.537	4.31#
13)	T	Acrolein		0.101	0.131	0.124	0.140	0.136	0.126	12.09
14)	T	Allyl chloride	0.952	0.897	0.823	0.843	0.846	0.863	0.871	5.42
15)	T	Acrylonitrile	0.298	0.299	0.275	0.303	0.298	0.289	0.294	3.39
16)	T	Acetone	0.306	0.269	0.247	0.252	0.252	0.238	0.261	9.28
17)	T	Carbon Disulfide	1.978	1.719	1.537	1.647	1.477	1.555	1.652	10.95
18)	T	Methyl Acetate	0.871	0.810	0.779	0.758	0.790	0.751	0.793	5.54
19)	T	Methyl tert-bu...	1.545	1.685	1.664	1.853	1.873	1.834	1.742	7.53
20)	T	Methylene Chlo...	0.656	0.696	0.606	0.658	0.629	0.629	0.646	4.86
21)	T	trans-1,2-Dich...	0.632	0.569	0.539	0.574	0.555	0.571	0.573	5.50
22)	T	Diisopropyl ether	1.705	1.918	1.834	2.076	2.037	2.026	1.933	7.38
23)	T	Vinyl Acetate	1.110	1.270	1.279	1.466	1.495	1.495	1.353	11.67
24)	P	1,1-Dichloroet...	1.204	1.226	1.100	1.206	1.170	1.164	1.178	3.81
25)	T	2-Butanone	0.386	0.387	0.363	0.398	0.390	0.378	0.384	3.12
26)	T	2,2-Dichloropr...	0.930	0.986	0.922	0.985	0.936	0.958	0.953	2.96
27)	T	cis-1,2-Dichlo...	0.655	0.669	0.639	0.715	0.683	0.691	0.675	4.02
28)	T	Bromochloromet...	0.624	0.595	0.486	0.513	0.542	0.530	0.548	9.44
29)	T	Tetrahydrofuran	0.221	0.236	0.233	0.261	0.260	0.248	0.243	6.58
30)	C	Chloroform	1.273	1.253	1.169	1.241	1.175	1.197	1.218	3.59#
31)	T	Cyclohexane		1.198	1.026	1.033	0.881	0.984	1.024	11.18
32)	T	1,1,1-Trichlor...	1.102	1.148	1.000	1.091	1.016	1.053	1.068	5.24
33)	S	1,2-Dichloroet...		0.914	0.762	0.754	0.831	0.774	0.807	8.28
34)	I	1,4-Difluorobenzene	----------ISTD----------							
35)	S	Dibromofluorom...		0.373	0.310	0.335	0.358	0.359	0.347	7.10
36)	T	1,1-Dichloropr...	0.509	0.490	0.441	0.499	0.462	0.521	0.487	6.17
37)	T	Ethyl Acetate	0.504	0.520	0.452	0.488	0.488	0.496	0.491	4.66
38)	T	Carbon Tetrach...	0.567	0.565	0.529	0.579	0.530	0.574	0.557	3.96
39)	T	Methylcyclohexane	0.397	0.437	0.407	0.477	0.463	0.564	0.457	13.29
40)	TM	Benzene	1.400	1.474	1.376	1.527	1.449	1.551	1.463	4.70
41)	T	Methacrylonitrile	0.241	0.227	0.248	0.268	0.270	0.280	0.256	7.89
42)	TM	1,2-Dichloroet...	0.517	0.574	0.522	0.575	0.547	0.569	0.551	4.78
43)	T	Isopropyl Acetate	0.793	0.764	0.719	0.801	0.813	0.835	0.787	5.20
44)	TM	Trichloroethene	0.352	0.343	0.310	0.352	0.324	0.362	0.341	5.79
45)	C	1,2-Dichloropr...	0.371	0.388	0.334	0.388	0.371	0.390	0.374	5.69#
46)	T	Dibromomethane	0.292	0.254	0.254	0.277	0.267	0.275	0.270	5.50
47)	T	Bromodichlorom...	0.484	0.569	0.514	0.579	0.559	0.590	0.549	7.48
48)	T	Methyl methacr...	0.311	0.326	0.321	0.369	0.392	0.406	0.354	11.37
49)	T	1,4-Dioxane	0.006	0.006	0.006	0.006	0.006	0.006	0.006	6.72
50)	S	Toluene-d8		1.274	1.076	1.207	1.267	1.339	1.232	8.07
51)	T	4-Methyl-2-Pen...	0.380	0.443	0.432	0.495	0.492	0.499	0.457	10.33
52)	CM	Toluene	0.690	0.835	0.808	0.919	0.870	0.964	0.848	11.27#
53)	T	t-1,3-Dichloro...	0.416	0.527	0.481	0.544	0.551	0.594	0.519	11.98
54)	T	cis-1,3-Dichlo...	0.450	0.538	0.527	0.601	0.588	0.623	0.554	11.40
55)	T	1,1,2-Trichlor...	0.314	0.349	0.309	0.353	0.340	0.348	0.335	5.67

Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
Method File : 82N011425W.M

56)	T	Ethyl methacry...	0.317	0.434	0.418	0.521	0.544	0.582	0.469	20.85
57)	T	1,3-Dichloropr...	0.514	0.584	0.555	0.618	0.602	0.627	0.583	7.31
58)	T	2-Chloroethyl ...	0.163	0.205	0.185	0.226	0.241	0.258	0.213	16.67
59)	T	2-Hexanone	0.261	0.302	0.298	0.353	0.357	0.358	0.321	12.60
60)	T	Dibromochlorom...	0.386	0.420	0.368	0.412	0.414	0.430	0.405	5.79
61)	T	1,2-Dibromoethane	0.334	0.321	0.309	0.356	0.334	0.349	0.334	5.16
62)	S	4-Bromofluorob...		0.417	0.357	0.410	0.449	0.475	0.422	10.57
63)	I	Chlorobenzene-d5	----------ISTD----------							
64)	T	Tetrachloroethene	0.323	0.346	0.338	0.365	0.322	0.351	0.341	4.87
65)	PM	Chlorobenzene	1.051	1.110	1.047	1.154	1.076	1.133	1.095	4.03
66)	T	1,1,1,2-Tetrac...	0.425	0.412	0.371	0.408	0.392	0.404	0.402	4.65
67)	C	Ethyl Benzene	1.430	1.709	1.685	1.940	1.867	2.072	1.784	12.67#
68)	T	m/p-Xylenes	0.492	0.616	0.615	0.750	0.707	0.775	0.659	16.01
69)	T	o-Xylene	0.482	0.582	0.584	0.713	0.681	0.738	0.630	15.47
70)	T	Styrene	0.742	0.929	0.956	1.186	1.173	1.271	1.043	19.21
71)	P	Bromoform	0.235	0.284	0.273	0.312	0.311	0.311	0.288	10.61
72)	I	1,4-Dichlorobenzen...	----------ISTD----------							
73)	T	Isopropylbenzene	2.766	3.157	3.272	3.681	3.448	3.922	3.375	12.06
74)	T	N-amyl acetate	1.364	1.394	1.405	1.642	1.622	1.673	1.517	9.43
75)	P	1,1,2,2-Tetrac...	1.314	1.228	1.157	1.187	1.145	1.121	1.192	5.89
76)	T	1,2,3-Trichlor...	1.104	0.965	0.957	1.118	0.893	1.061	1.016	8.96
77)	T	Bromobenzene	0.871	0.880	0.857	0.906	0.858	0.919	0.882	2.90
78)	T	n-propylbenzene	3.227	3.605	3.846	4.400	4.154	4.738	3.995	13.74
79)	T	2-Chlorotoluene	2.252	2.533	2.571	2.761	2.585	2.812	2.586	7.67
80)	T	1,3,5-Trimethy...	2.160	2.529	2.695	3.140	2.940	3.260	2.787	14.69
81)	T	trans-1,4-Dich...		0.335	0.347	0.386	0.390	0.419	0.376	9.04
82)	T	4-Chlorotoluene	2.144	2.536	2.512	2.820	2.588	2.847	2.574	9.91
83)	T	tert-Butylbenzene	1.885	2.189	2.236	2.570	2.439	2.726	2.341	12.85
84)	T	1,2,4-Trimethy...	1.888	2.542	2.710	3.190	3.016	3.323	2.778	18.89
85)	T	sec-Butylbenzene	2.318	3.026	3.147	3.643	3.421	3.912	3.244	17.17
86)	T	p-Isopropyltol...	1.777	2.368	2.541	2.942	2.872	3.286	2.631	20.04
87)	T	1,3-Dichlorobe...	1.526	1.656	1.574	1.701	1.565	1.720	1.624	4.91
88)	T	1,4-Dichlorobe...	1.767	1.743	1.607	1.713	1.562	1.706	1.683	4.78
89)	T	n-Butylbenzene	1.772	2.176	2.168	2.485	2.483	2.881	2.327	16.22
90)	T	Hexachloroethane	0.681	0.616	0.574	0.613	0.577	0.645	0.618	6.59
91)	T	1,2-Dichlorobe...	1.766	1.600	1.532	1.654	1.555	1.611	1.620	5.15
92)	T	1,2-Dibromo-3-...	0.202	0.228	0.212	0.224	0.222	0.218	0.218	4.31
93)	T	1,2,4-Trichlor...	0.658	0.717	0.704	0.799	0.781	0.858	0.753	9.69
94)	T	Hexachlorobuta...	0.413	0.441	0.395	0.396	0.367	0.386	0.400	6.31
95)	T	Naphthalene	2.115	1.987	1.958	2.348	2.482	2.588	2.246	11.79
96)	T	1,2,3-Trichlor...	0.750	0.693	0.732	0.792	0.786	0.817	0.762	5.96

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085438.D
Acq On : 14 Jan 2025 14:56
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 15 01:41:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.218	168	202613	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	329363	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	298938	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	146196	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	313645	95.899	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 191.800%#			
35) Dibromofluoromethane	8.159	113	236159	103.353	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 206.700%#			
50) Toluene-d8	10.565	98	881956	108.636	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 217.280%#			
62) 4-Bromofluorobenzene	12.847	95	313161	112.765	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 225.520%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	269023	98.065	ug/l	99
3) Chloromethane	2.359	50	275415	92.724	ug/l	98
4) Vinyl Chloride	2.512	62	282361	94.576	ug/l	99
5) Bromomethane	2.942	94	158888	88.105	ug/l	98
6) Chloroethane	3.112	64	176111	93.043	ug/l	99
7) Trichlorofluoromethane	3.494	101	423967	97.870	ug/l	100
8) Diethyl Ether	3.953	74	146889	98.154	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.371	101	239104	97.997	ug/l	99
10) Methyl Iodide	4.589	142	292983	104.856	ug/l	95
11) Tert butyl alcohol	5.512	59	173044	462.061	ug/l	99
12) 1,1-Dichloroethene	4.336	96	222117	102.146	ug/l	99
13) Acrolein	4.171	56	275350	538.600	ug/l	99
14) Allyl chloride	5.018	41	349717	99.111	ug/l	98
15) Acrylonitrile	5.712	53	585370	492.095	ug/l	99
16) Acetone	4.418	43	483221	457.268	ug/l	96
17) Carbon Disulfide	4.712	76	630294	94.140	ug/l	100
18) Methyl Acetate	5.012	43	304226	94.674	ug/l	99
19) Methyl tert-butyl Ether	5.788	73	743008	105.230	ug/l	100
20) Methylene Chloride	5.271	84	254912	97.440	ug/l	98
21) trans-1,2-Dichloroethene	5.783	96	231503	99.618	ug/l	97
22) Diisopropyl ether	6.665	45	820871	104.812	ug/l	99
23) Vinyl Acetate	6.594	43	3029568	550.850	ug/l	99
24) 1,1-Dichloroethane	6.565	63	471831	98.803	ug/l	99
25) 2-Butanone	7.477	43	764979	491.912	ug/l	98
26) 2,2-Dichloropropane	7.482	77	388140	100.530	ug/l	100
27) cis-1,2-Dichloroethene	7.482	96	280197	102.367	ug/l	99
28) Bromochloromethane	7.806	49	214796	96.679	ug/l	100
29) Tetrahydrofuran	7.830	42	503459	510.635	ug/l	99
30) Chloroform	7.959	83	484941	98.253	ug/l	100
31) Cyclohexane	8.253	56	398641	96.041	ug/l	96
32) 1,1,1-Trichloroethane	8.165	97	426782	98.578	ug/l	98
36) 1,1-Dichloropropene	8.365	75	342961	106.945	ug/l	100
37) Ethyl Acetate	7.553	43	326802	100.961	ug/l	97
38) Carbon Tetrachloride	8.359	117	378390	103.065	ug/l	97
39) Methylcyclohexane	9.594	83	371734	123.354	ug/l	99
40) Benzene	8.600	78	1021393	106.001	ug/l	100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085438.D
Acq On : 14 Jan 2025 14:56
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 15 01:41:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	7.777	41	184326	109.454 ug/l		96
42) 1,2-Dichloroethane	8.665	62	374938	103.314 ug/l		100
43) Isopropyl Acetate	8.682	43	549969	106.035 ug/l		100
44) Trichloroethene	9.347	130	238296	106.242 ug/l		96
45) 1,2-Dichloropropane	9.618	63	256964	104.405 ug/l		97
46) Dibromomethane	9.706	93	180990	101.913 ug/l		99
47) Bromodichloromethane	9.882	83	388499	107.377 ug/l		98
48) Methyl methacrylate	9.676	41	267689	114.685 ug/l		99
49) 1,4-Dioxane	9.688	88	83879	2133.992 ug/l		97
51) 4-Methyl-2-Pentanone	10.441	43	1643800	546.159 ug/l		100
52) Toluene	10.623	92	634743	113.689 ug/l		99
53) t-1,3-Dichloropropene	10.829	75	391238	114.424 ug/l		97
54) cis-1,3-Dichloropropene	10.306	75	410403	112.369 ug/l		99
55) 1,1,2-Trichloroethane	11.012	97	229522	103.879 ug/l		98
56) Ethyl methacrylate	10.870	69	383663	101.029 ug/l		99
57) 1,3-Dichloropropane	11.159	76	412886	107.469 ug/l		100
58) 2-Chloroethyl Vinyl ether	10.153	63	848636	605.243 ug/l		100
59) 2-Hexanone	11.194	43	1178831	556.643 ug/l		99
60) Dibromochloromethane	11.353	129	283361	106.227 ug/l		99
61) 1,2-Dibromoethane	11.465	107	230104	104.623 ug/l		98
64) Tetrachloroethene	11.100	164	209870	102.980 ug/l		98
65) Chlorobenzene	11.888	112	677679	103.482 ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.959	131	241593	100.517 ug/l		99
67) Ethyl Benzene	11.959	91	1239080	116.169 ug/l		99
68) m/p-Xylenes	12.070	106	927244	235.219 ug/l		99
69) o-Xylene	12.394	106	441279	117.135 ug/l		100
70) Styrene	12.406	104	760136	121.919 ug/l		99
71) Bromoform	12.576	173	186124	108.227 ug/l	#	99
73) Isopropylbenzene	12.694	105	1146752	116.221 ug/l		100
74) N-amyl acetate	12.488	43	489217	110.308 ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.935	83	327767	94.039 ug/l		100
76) 1,2,3-Trichloropropane	12.988	75	310115m	104.530 ug/l		
77) Bromobenzene	12.976	156	268616	104.200 ug/l		97
78) n-propylbenzene	13.029	91	1385353	118.600 ug/l		100
79) 2-Chlorotoluene	13.123	91	822258	108.767 ug/l		99
80) 1,3,5-Trimethylbenzene	13.170	105	953066	116.938 ug/l		100
81) trans-1,4-Dichloro-2-b...	12.735	75	122508	111.544 ug/l		87
82) 4-Chlorotoluene	13.217	91	832317	110.574 ug/l		99
83) tert-Butylbenzene	13.435	119	797069	116.457 ug/l		98
84) 1,2,4-Trimethylbenzene	13.476	105	971729	119.625 ug/l		100
85) sec-Butylbenzene	13.611	105	1143885	120.587 ug/l		100
86) p-Isopropyltoluene	13.723	119	960747	100.111 ug/l		100
87) 1,3-Dichlorobenzene	13.729	146	502960	105.943 ug/l		99
88) 1,4-Dichlorobenzene	13.811	146	498709	101.341 ug/l		97
89) n-Butylbenzene	14.053	91	842368	123.781 ug/l		98
90) Hexachloroethane	14.329	117	188541	104.405 ug/l		100
91) 1,2-Dichlorobenzene	14.100	146	470919	99.445 ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	63846	100.313 ug/l		98
93) 1,2,4-Trichlorobenzene	15.388	180	250787	113.946 ug/l		99
94) Hexachlorobutadiene	15.500	225	112899	96.619 ug/l		99
95) Naphthalene	15.635	128	756816	115.234 ug/l		99
96) 1,2,3-Trichlorobenzene	15.835	180	238860	107.256 ug/l		100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085438.D
Acq On : 14 Jan 2025 14:56
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 15 01:41:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration

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

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

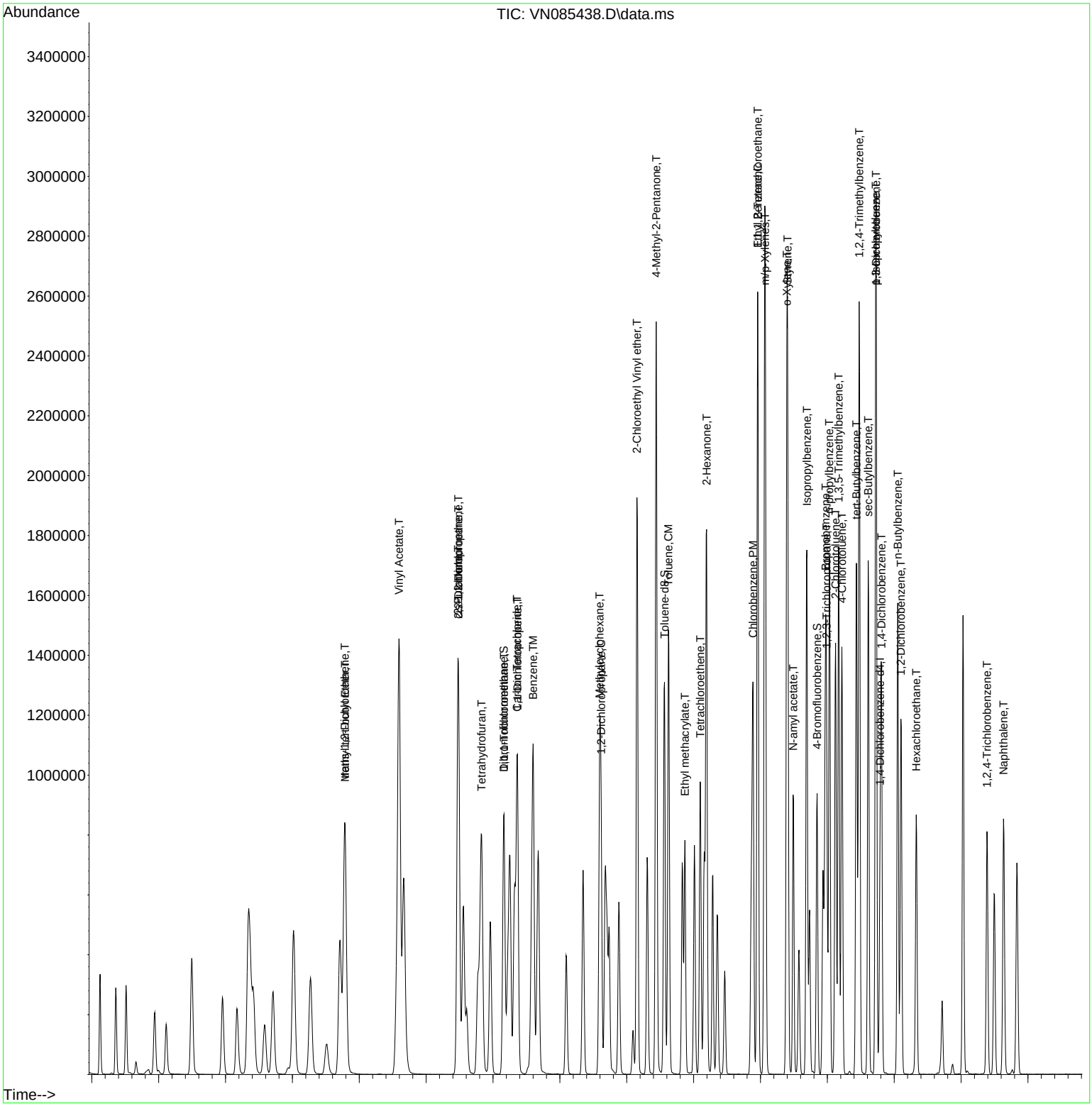
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085438.D
Acq On : 14 Jan 2025 14:56
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

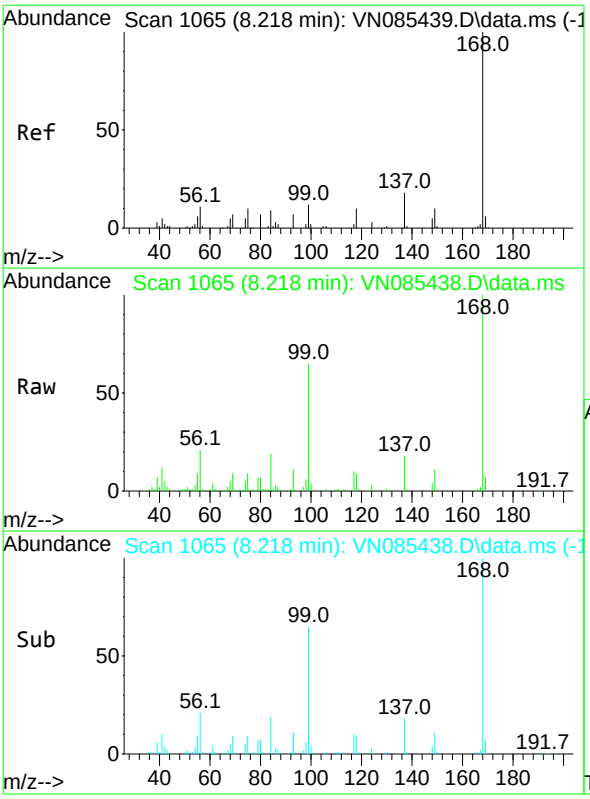
Quant Time: Jan 15 01:41:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

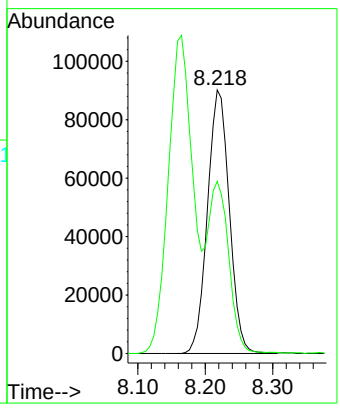




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion:168 Resp: 202613

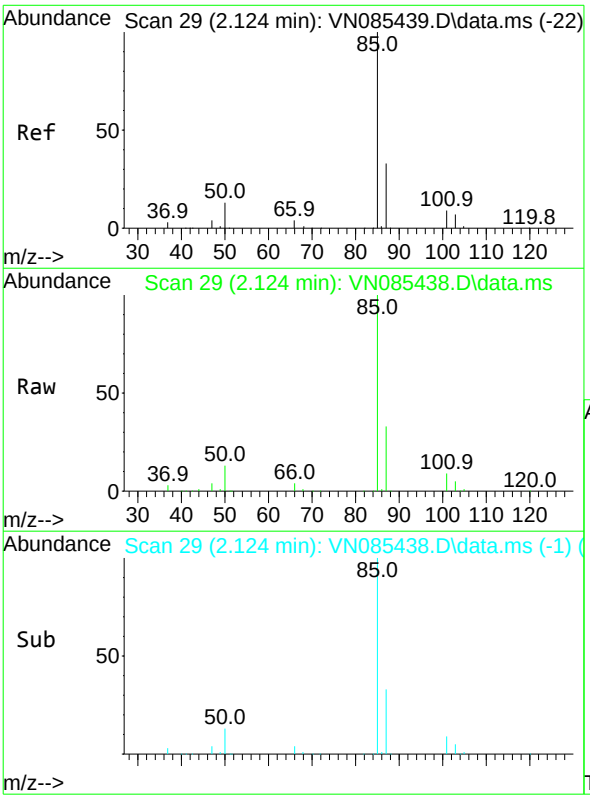
Ion	Ratio	Lower	Upper
168	100		
99	64.9	53.6	80.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

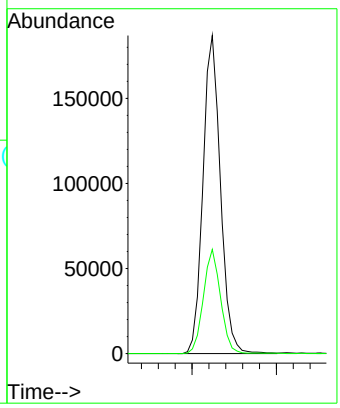
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

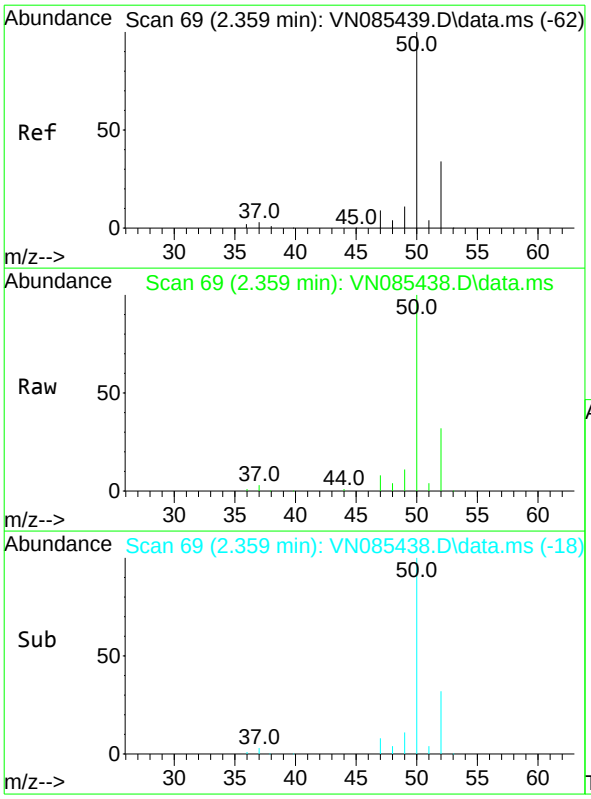


#2
Dichlorodifluoromethane
Concen: 98.065 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 85 Resp: 269023

Ion	Ratio	Lower	Upper
85	100		
87	32.7	16.7	50.1

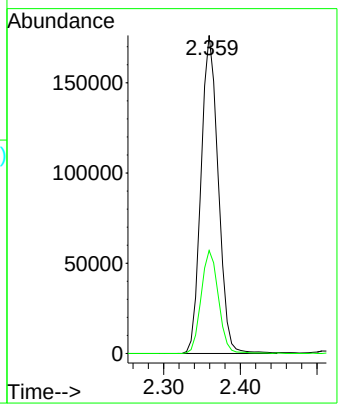




#3
Chloromethane
Concen: 92.724 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 50 Resp: 275415

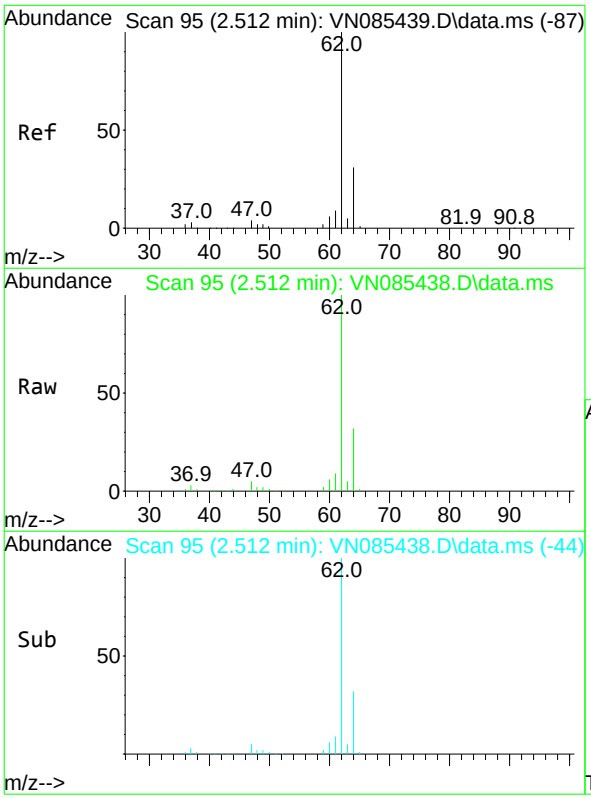
Ion	Ratio	Lower	Upper
50	100		
52	32.4	27.0	40.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

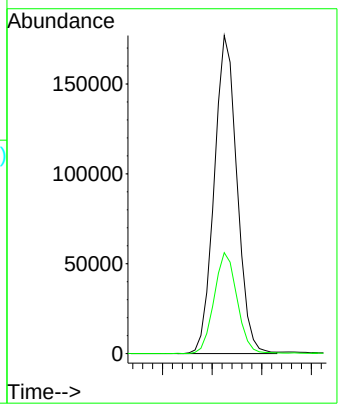
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

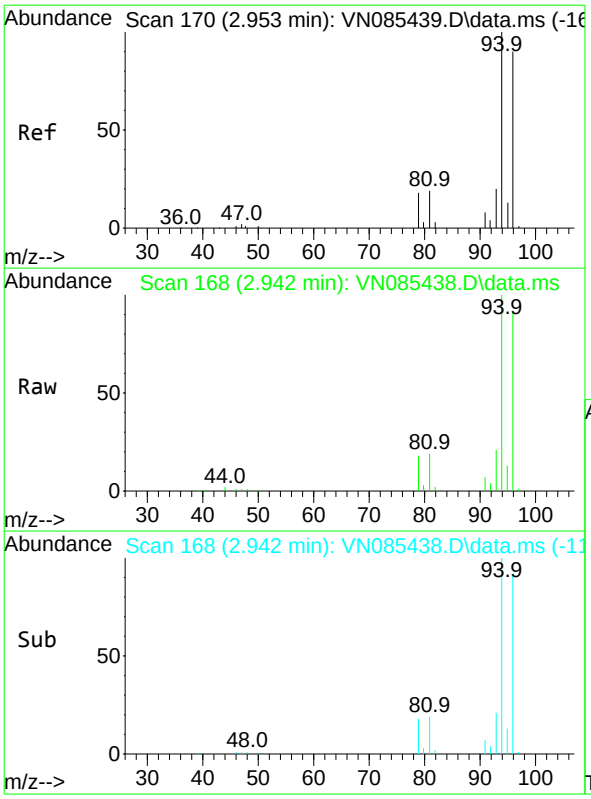


#4
Vinyl Chloride
Concen: 94.576 ug/l
RT: 2.512 min Scan# 95
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 62 Resp: 282361

Ion	Ratio	Lower	Upper
62	100		
64	31.6	24.8	37.2

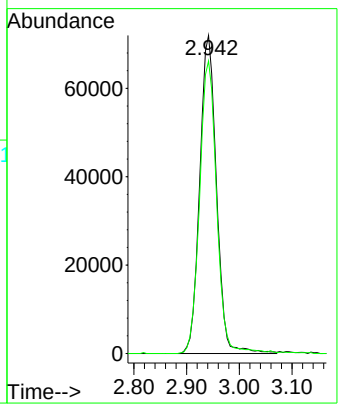




#5
Bromomethane
Concen: 88.105 ug/l
RT: 2.942 min Scan# 16
Delta R.T. -0.012 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 94 Resp: 158888

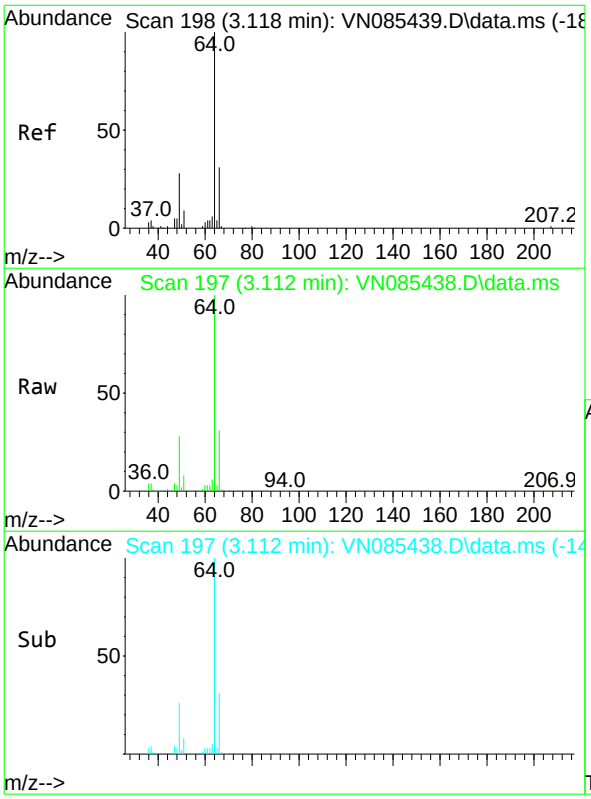
Ion	Ratio	Lower	Upper
94	100		
96	91.9	71.8	107.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

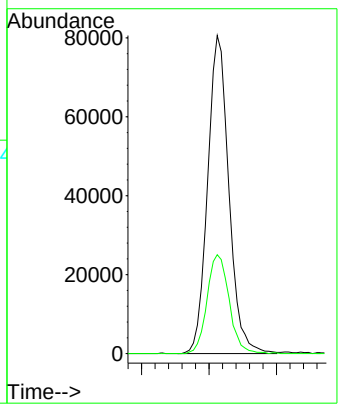
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

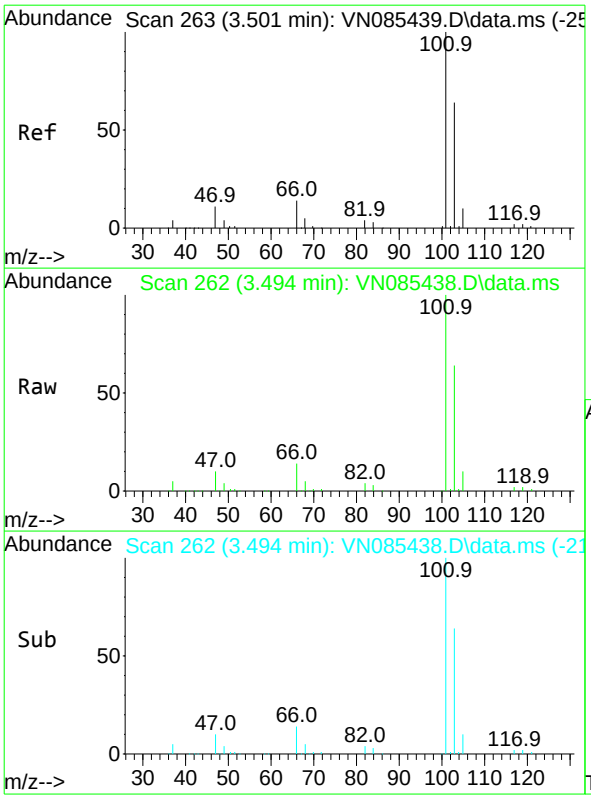


#6
Chloroethane
Concen: 93.043 ug/l
RT: 3.112 min Scan# 197
Delta R.T. -0.006 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 64 Resp: 176111

Ion	Ratio	Lower	Upper
64	100		
66	31.1	24.6	36.8

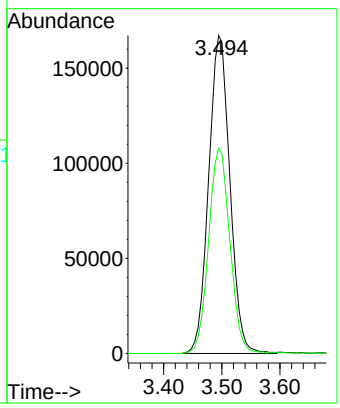




#7
Trichlorofluoromethane
Concen: 97.870 ug/l
RT: 3.494 min Scan# 26
Delta R.T. -0.006 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion:101 Resp: 423967

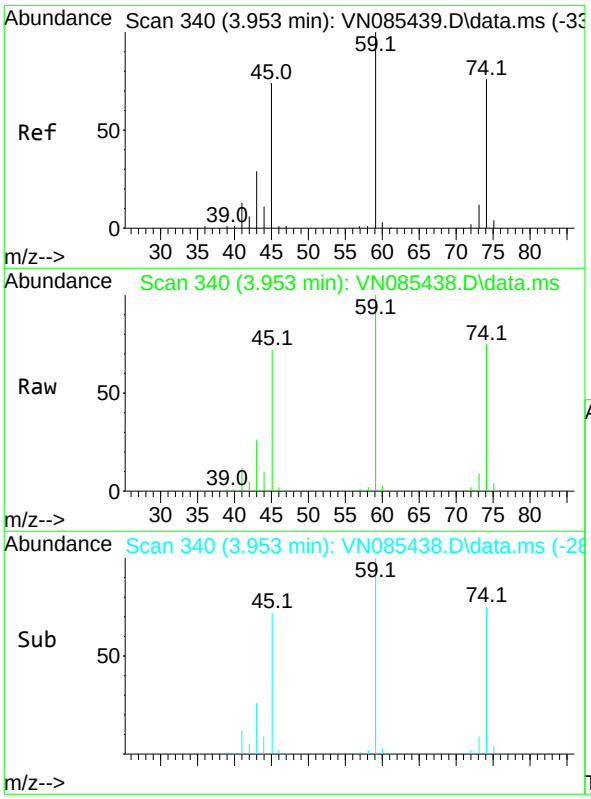
Ion	Ratio	Lower	Upper
101	100		
103	64.4	51.4	77.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

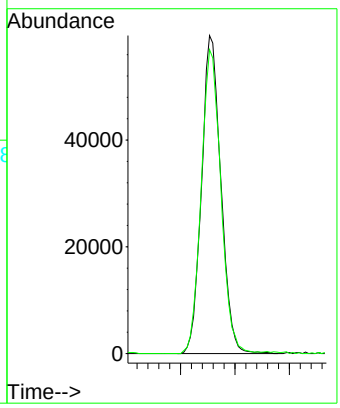
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

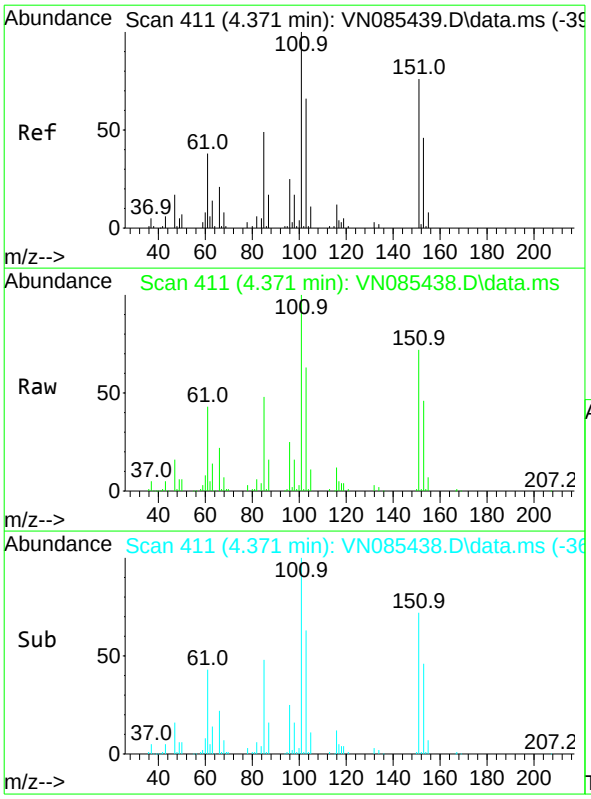


#8
Diethyl Ether
Concen: 98.154 ug/l
RT: 3.953 min Scan# 340
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 74 Resp: 146889

Ion	Ratio	Lower	Upper
74	100		
45	97.4	49.7	149.1





#9
1,1,2-Trichlorotrifluoroethane
Concen: 97.997 ug/l
RT: 4.371 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

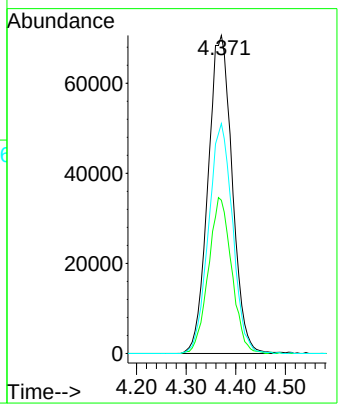
Tgt Ion:101 Resp: 239104

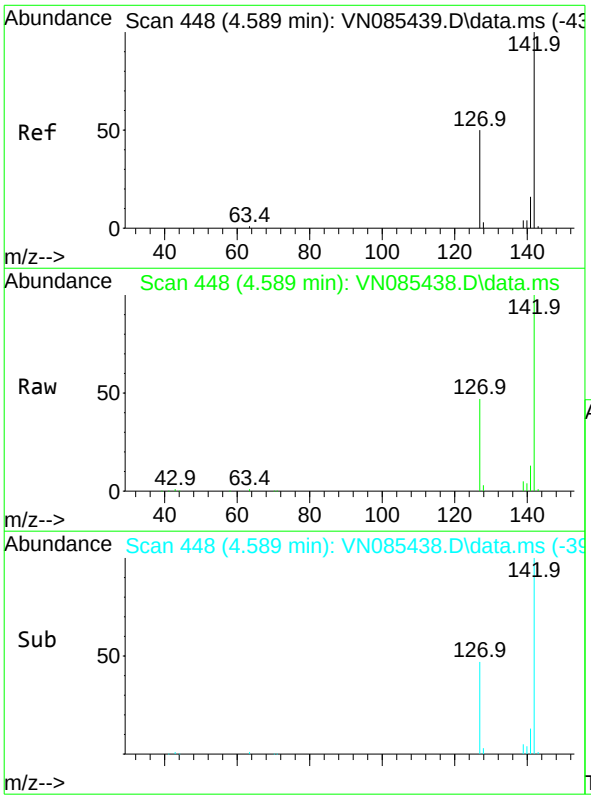
Ion	Ratio	Lower	Upper
101	100		
85	47.1	37.8	56.8
151	71.8	58.8	88.2

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

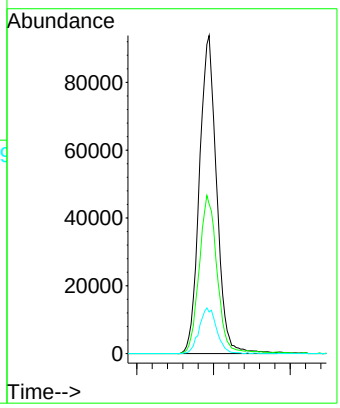


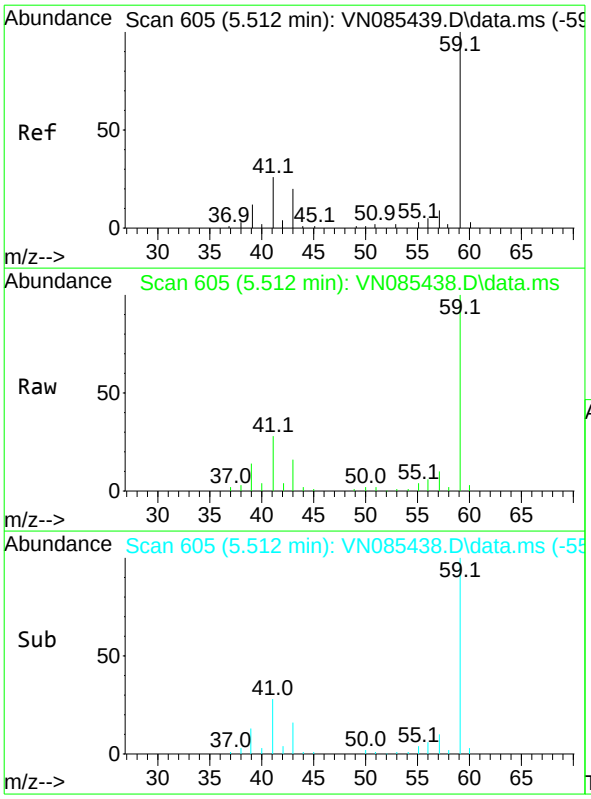


#10
Methyl Iodide
Concen: 104.856 ug/l
RT: 4.589 min Scan# 448
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion:142 Resp: 292983

Ion	Ratio	Lower	Upper
142	100		
127	47.1	40.3	60.5
141	13.1	12.8	19.2

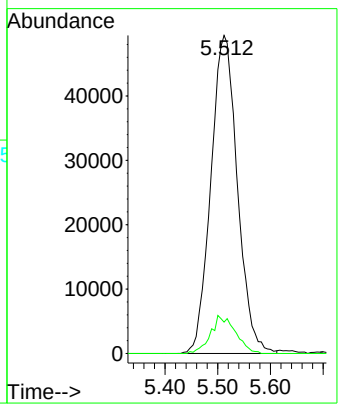




#11
Tert butyl alcohol
Concen: 462.061 ug/l
RT: 5.512 min Scan# 60
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 59 Resp: 173044

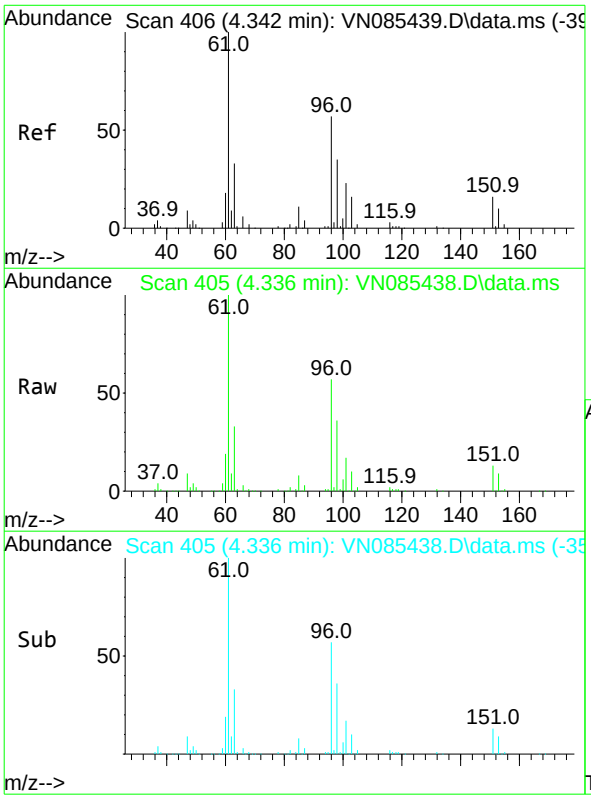
Ion	Ratio	Lower	Upper
59	100		
57	11.1	8.6	13.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

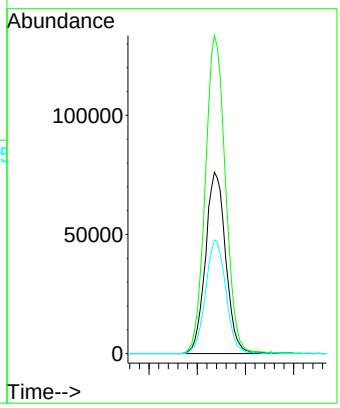
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

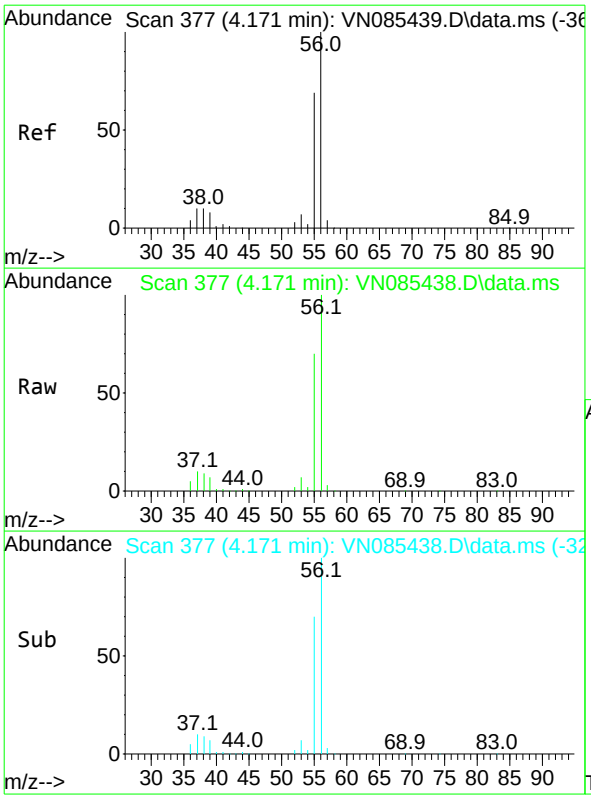


#12
1,1-Dichloroethene
Concen: 102.146 ug/l
RT: 4.336 min Scan# 405
Delta R.T. -0.006 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 96 Resp: 222117

Ion	Ratio	Lower	Upper
96	100		
61	175.3	141.0	211.4
98	62.7	49.0	73.6

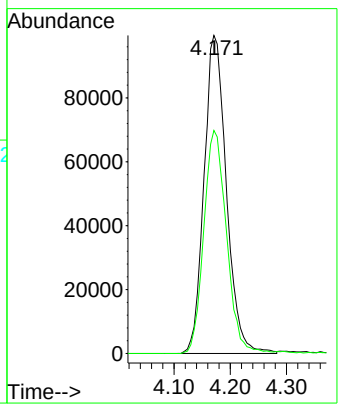




#13
Acrolein
Concen: 538.600 ug/l
RT: 4.171 min Scan# 37
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 56 Resp: 275350

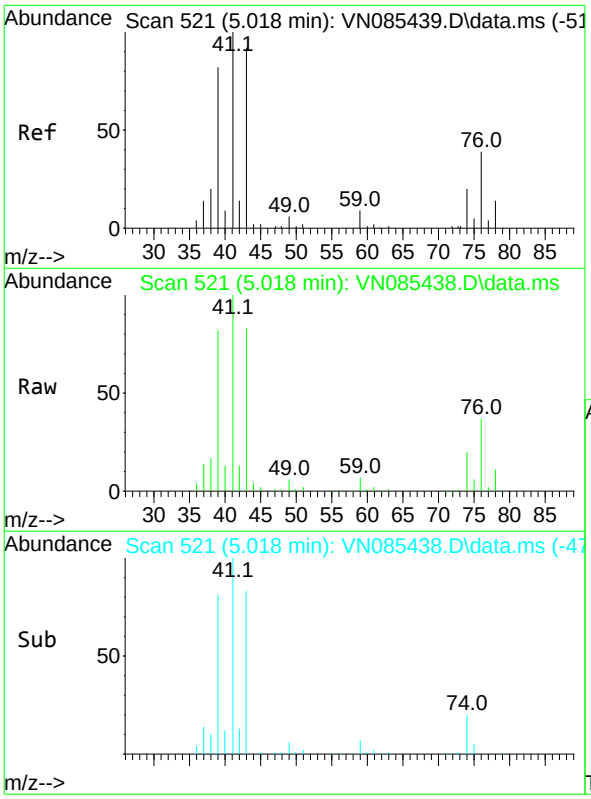
Ion	Ratio	Lower	Upper
56	100		
55	71.1	56.3	84.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

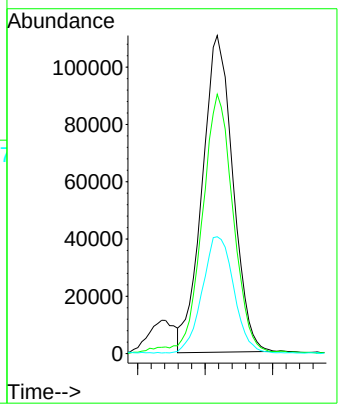
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

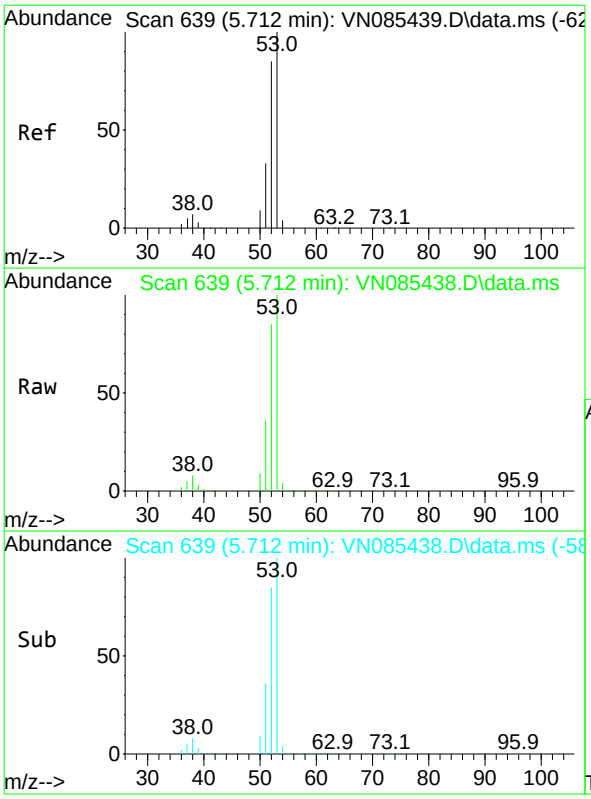


#14
Allyl chloride
Concen: 99.111 ug/l
RT: 5.018 min Scan# 521
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 41 Resp: 349717

Ion	Ratio	Lower	Upper
41	100		
39	83.3	64.4	96.6
76	37.9	30.5	45.7





#15
Acrylonitrile
Concen: 492.095 ug/l
RT: 5.712 min Scan# 63
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

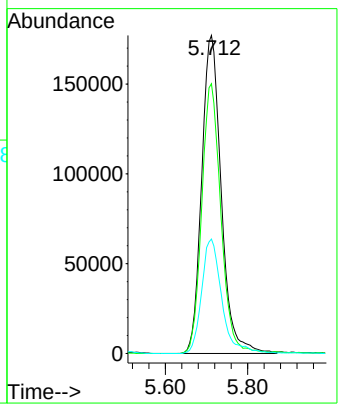
Tgt Ion: 53 Resp: 585370

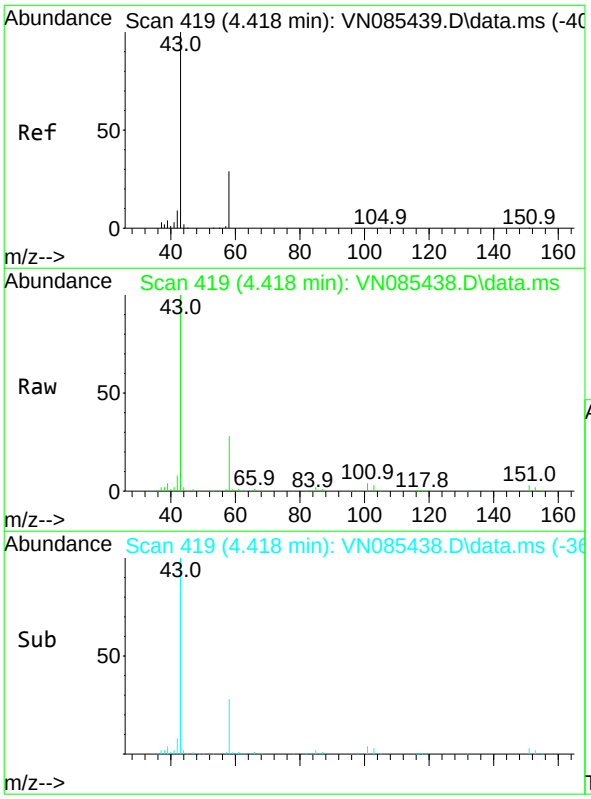
Ion	Ratio	Lower	Upper
53	100		
52	83.0	65.5	98.3
51	37.1	29.8	44.8

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

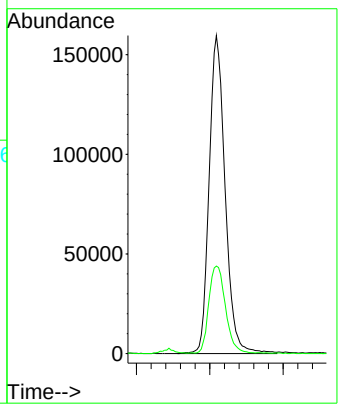


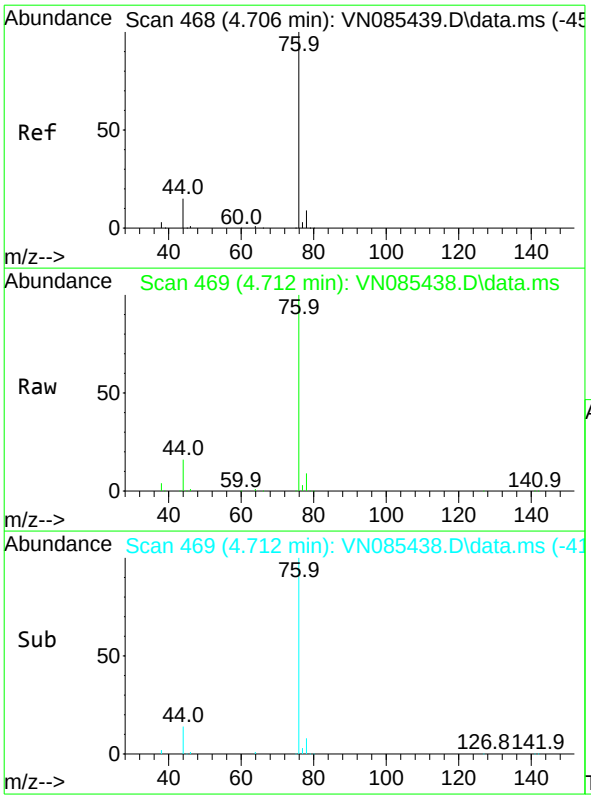


#16
Acetone
Concen: 457.268 ug/l
RT: 4.418 min Scan# 419
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 43 Resp: 483221

Ion	Ratio	Lower	Upper
43	100		
58	27.3	23.8	35.6

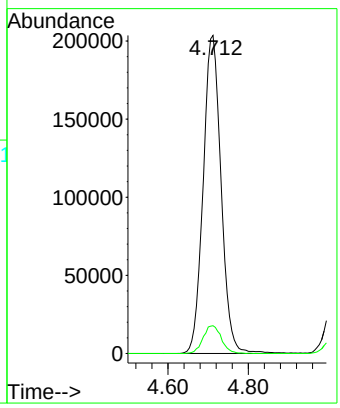




#17
Carbon Disulfide
Concen: 94.140 ug/l
RT: 4.712 min Scan# 46
Delta R.T. 0.006 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 76 Resp: 630294

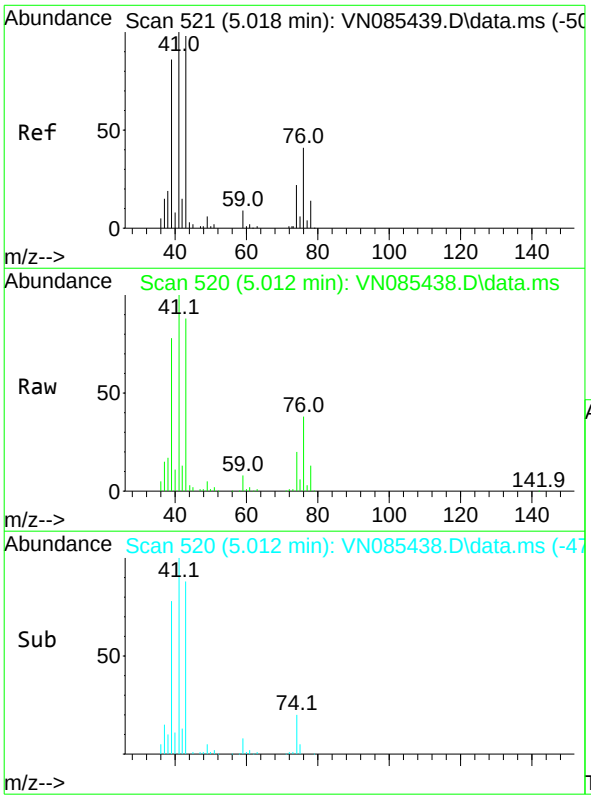
Ion	Ratio	Lower	Upper
76	100		
78	8.7	6.9	10.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

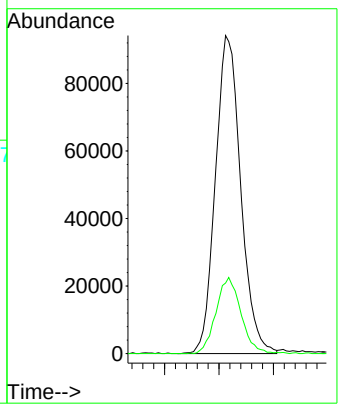
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

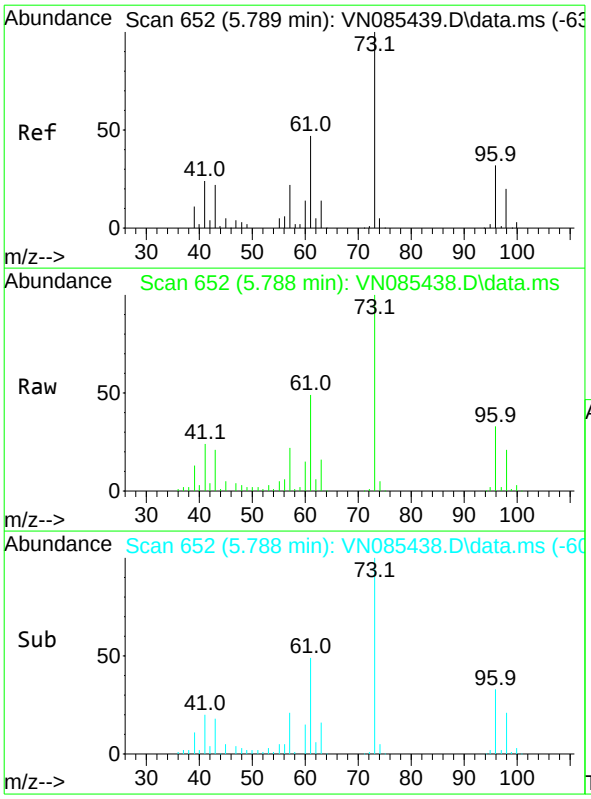


#18
Methyl Acetate
Concen: 94.674 ug/l
RT: 5.012 min Scan# 520
Delta R.T. -0.006 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 43 Resp: 304226

Ion	Ratio	Lower	Upper
43	100		
74	23.6	18.6	28.0

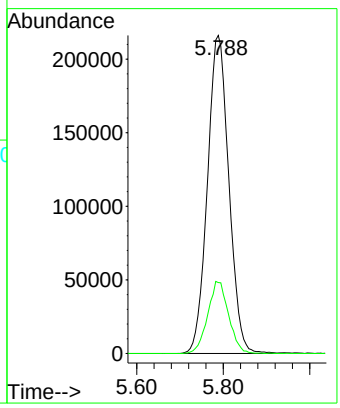




#19
Methyl tert-butyl Ether
Concen: 105.230 ug/l
RT: 5.788 min Scan# 65
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 73 Resp: 743008

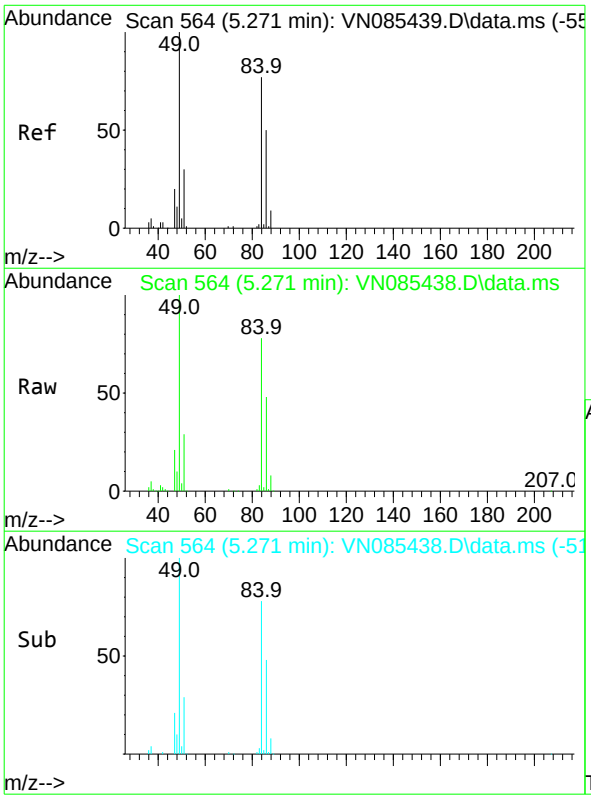
Ion	Ratio	Lower	Upper
73	100		
57	22.3	17.8	26.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

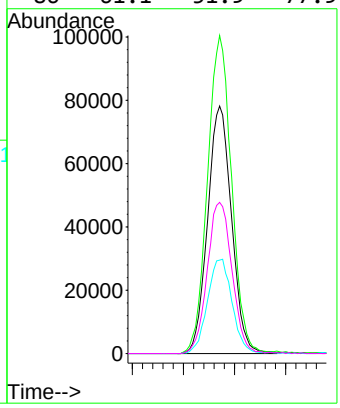
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

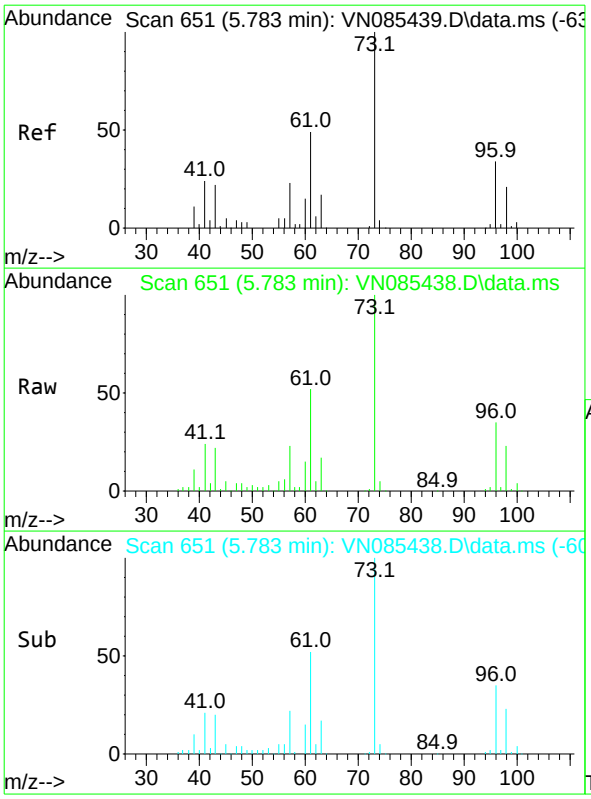


#20
Methylene Chloride
Concen: 97.440 ug/l
RT: 5.271 min Scan# 564
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 84 Resp: 254912

Ion	Ratio	Lower	Upper
84	100		
49	128.5	104.1	156.1
51	37.8	31.0	46.4
86	61.1	51.9	77.9

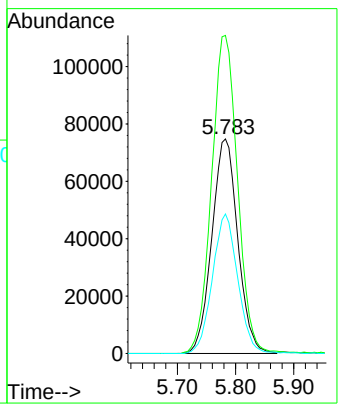




#21
trans-1,2-Dichloroethene
Concen: 99.618 ug/l
RT: 5.783 min Scan# 65
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 96 Resp: 231503

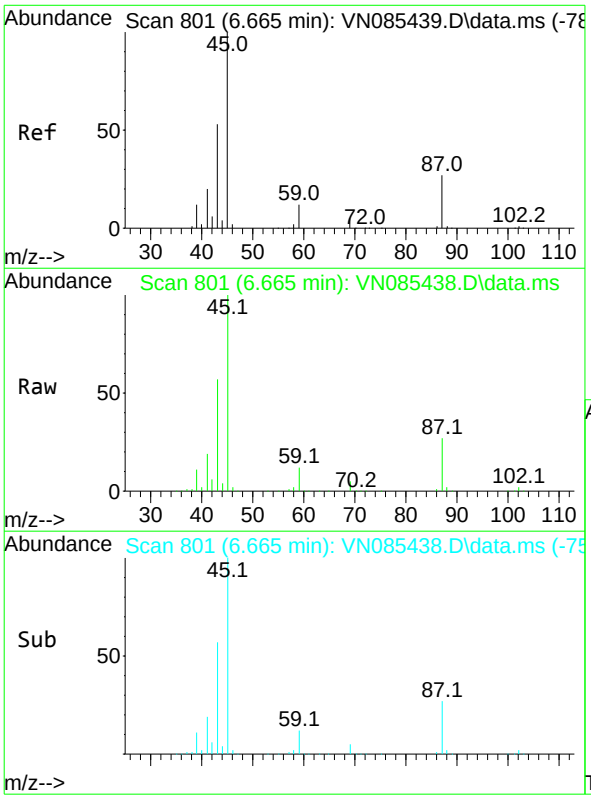
Ion	Ratio	Lower	Upper
96	100		
61	148.3	115.7	173.5
98	65.0	49.8	74.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

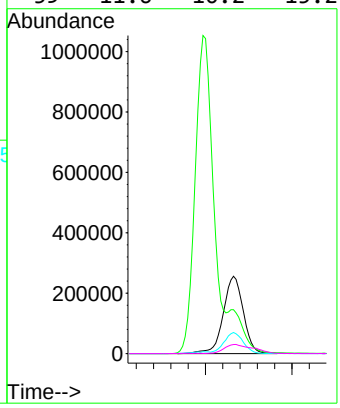
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

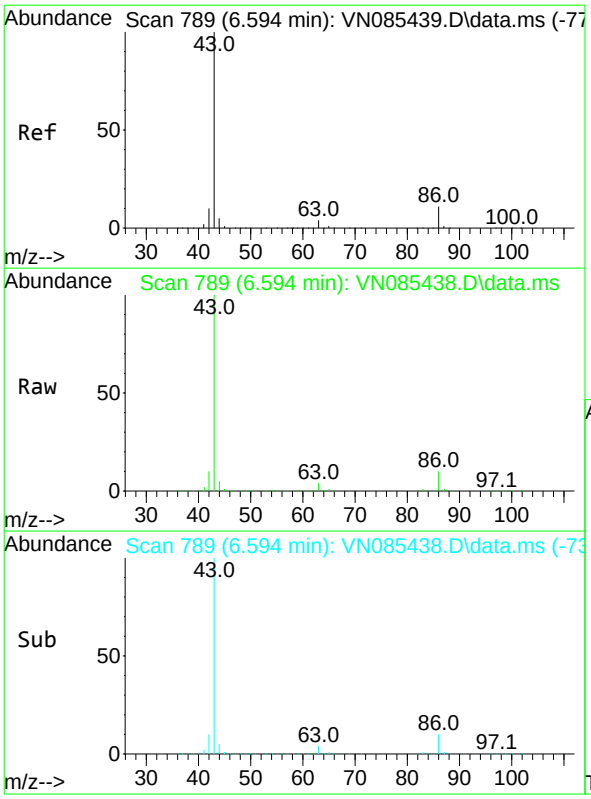


#22
Diisopropyl ether
Concen: 104.812 ug/l
RT: 6.665 min Scan# 801
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 45 Resp: 820871

Ion	Ratio	Lower	Upper
45	100		
43	55.7	45.0	67.6
87	27.2	21.8	32.8
59	11.6	10.2	15.2

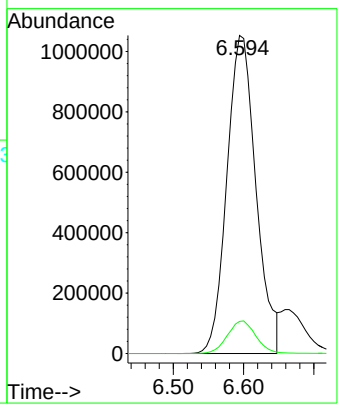




#23
Vinyl Acetate
Concen: 550.850 ug/l
RT: 6.594 min Scan# 78
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 43 Resp: 3029568

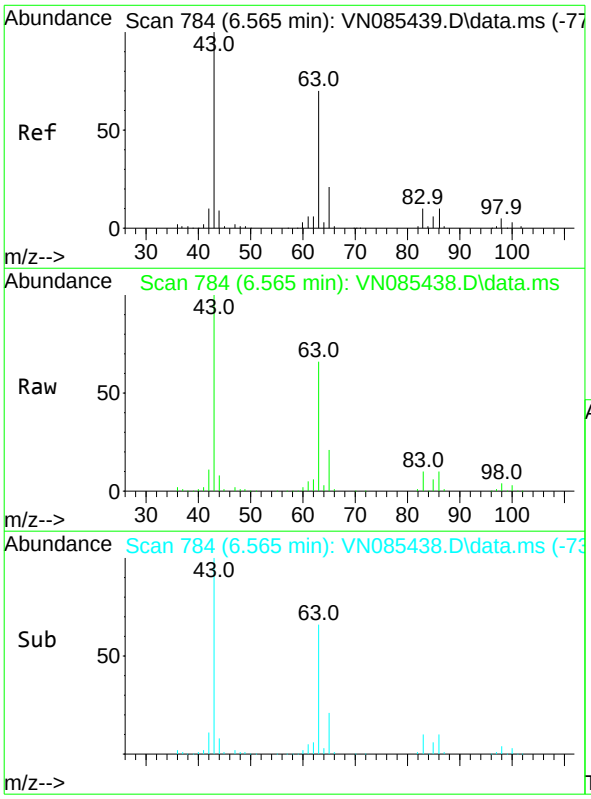
Ion	Ratio	Lower	Upper
43	100		
86	10.1	8.4	12.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

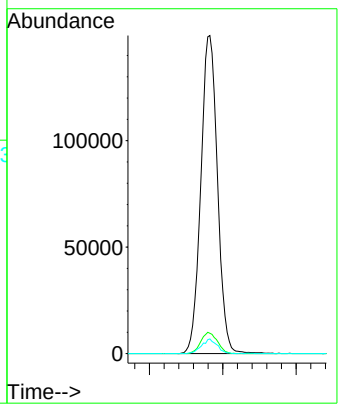
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

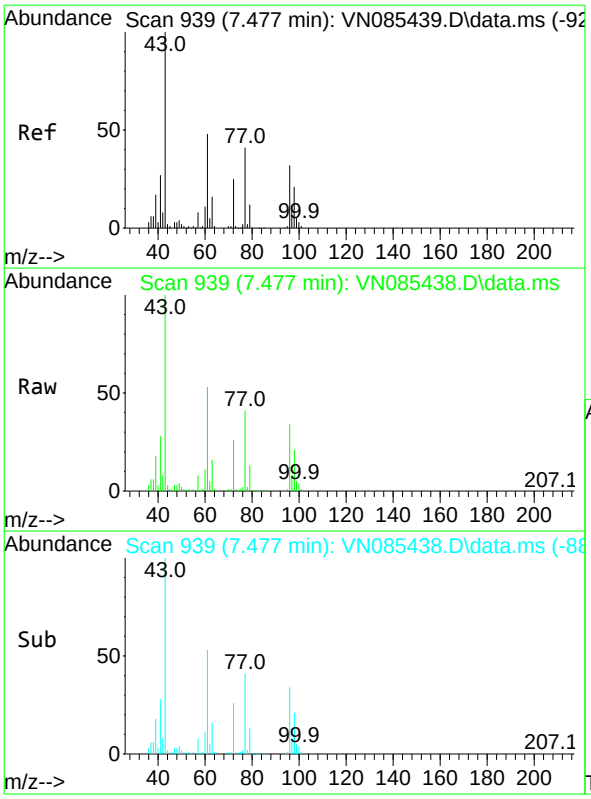


#24
1,1-Dichloroethane
Concen: 98.803 ug/l
RT: 6.565 min Scan# 784
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 63 Resp: 471831

Ion	Ratio	Lower	Upper
63	100		
98	6.4	3.3	9.8
100	4.6	2.0	6.0

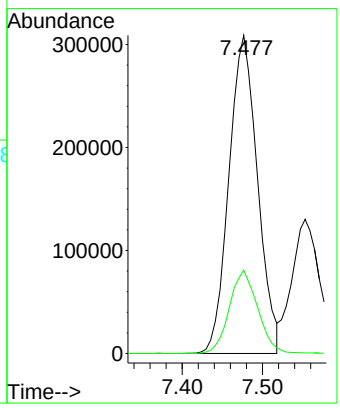




#25
2-Butanone
Concen: 491.912 ug/l
RT: 7.477 min Scan# 93
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 43 Resp: 764979

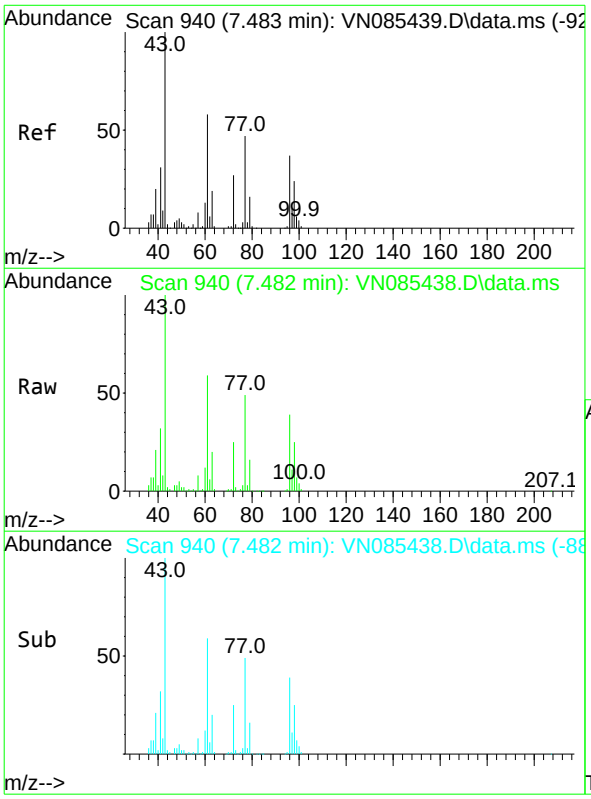
Ion	Ratio	Lower	Upper
43	100		
72	26.3	20.2	30.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

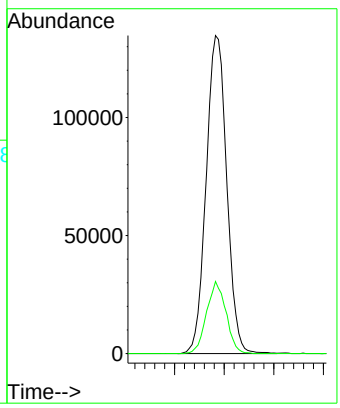
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

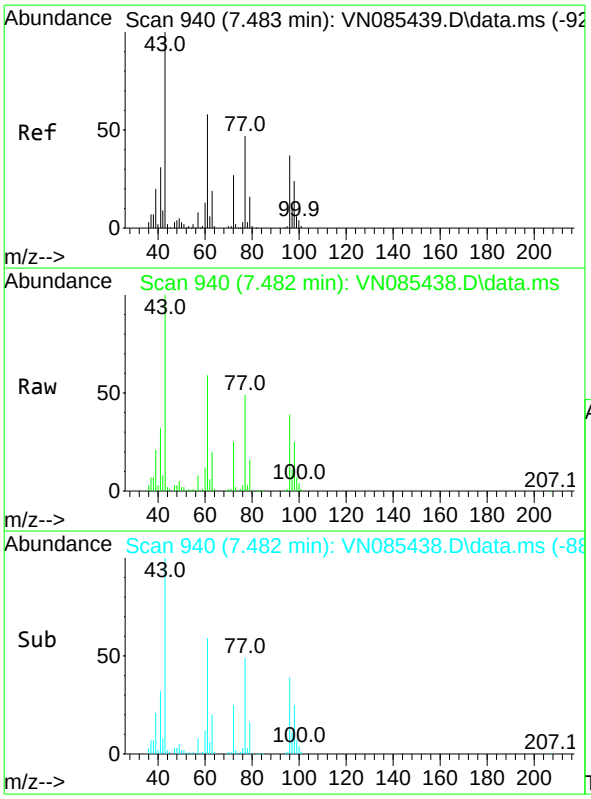


#26
2,2-Dichloropropane
Concen: 100.530 ug/l
RT: 7.482 min Scan# 940
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 77 Resp: 388140

Ion	Ratio	Lower	Upper
77	100		
97	21.4	10.7	32.1

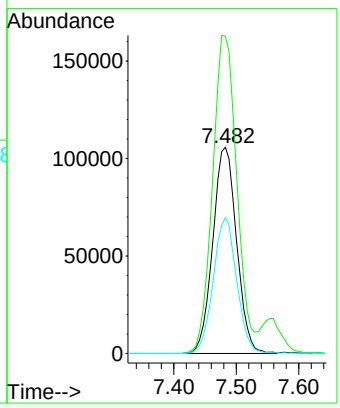




#27
cis-1,2-Dichloroethene
Concen: 102.367 ug/l
RT: 7.482 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 96 Resp: 280197

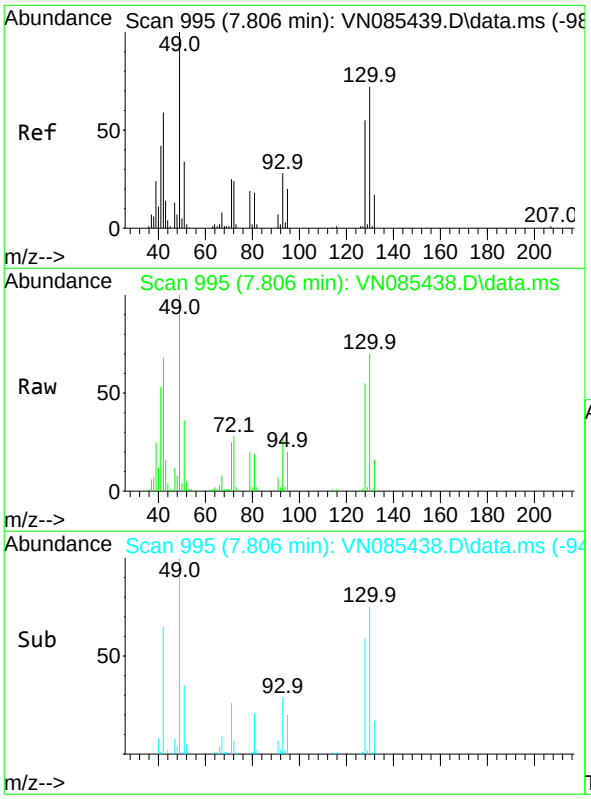
Ion	Ratio	Lower	Upper
96	100		
61	156.8	0.0	311.8
98	65.0	0.0	126.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

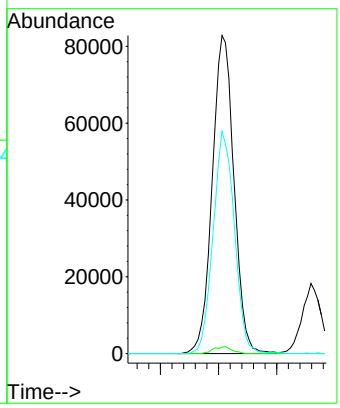
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

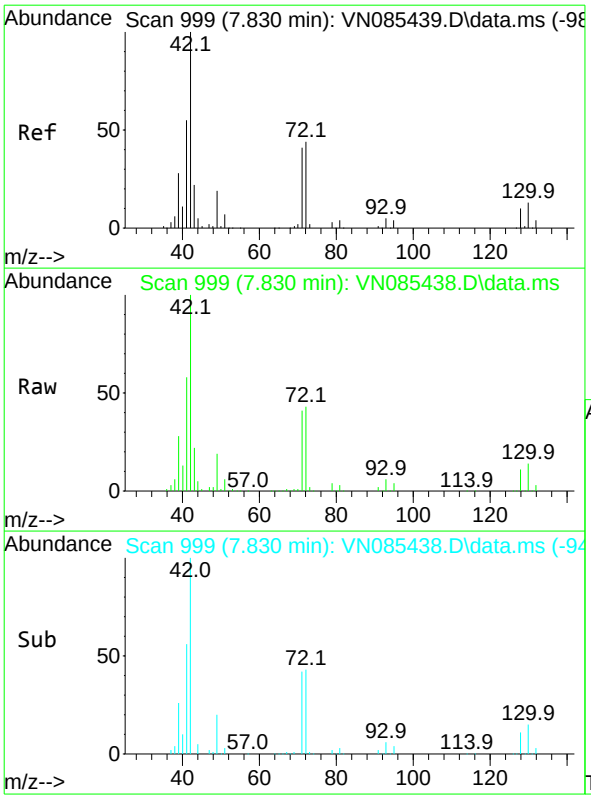


#28
Bromochloromethane
Concen: 96.679 ug/l
RT: 7.806 min Scan# 995
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 49 Resp: 214796

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	4.4
130	68.4	55.0	82.4

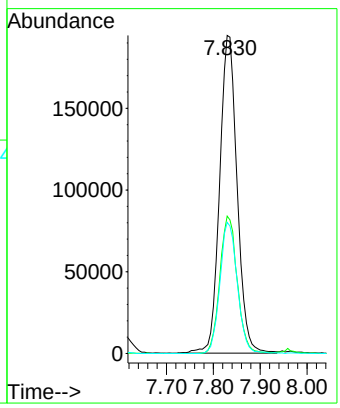




#29
Tetrahydrofuran
Concen: 510.635 ug/l
RT: 7.830 min Scan# 99
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 42 Resp: 503459

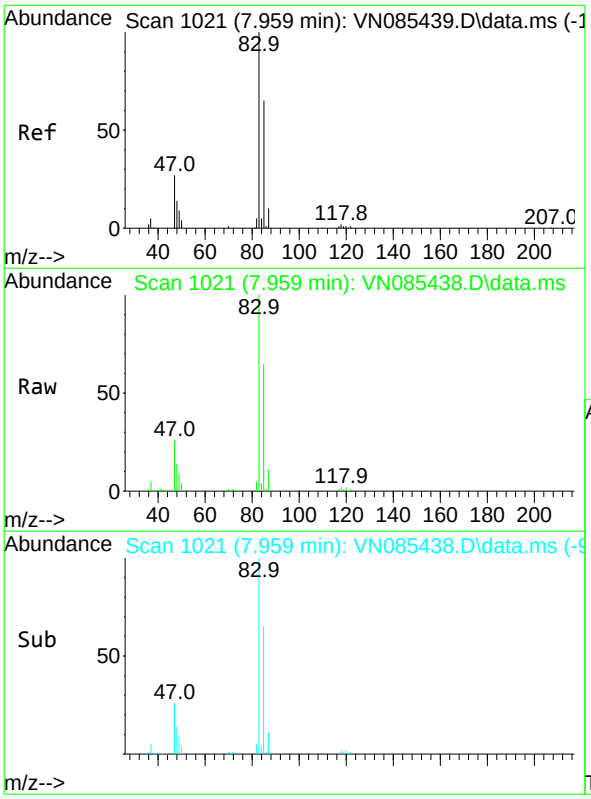
Ion	Ratio	Lower	Upper
42	100		
72	43.1	34.2	51.2
71	40.9	32.5	48.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

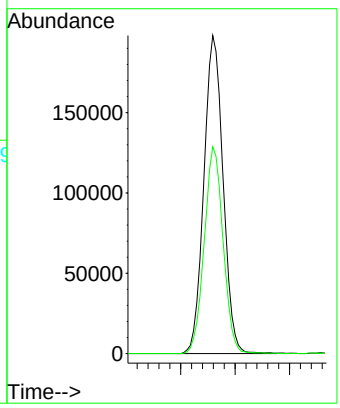
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

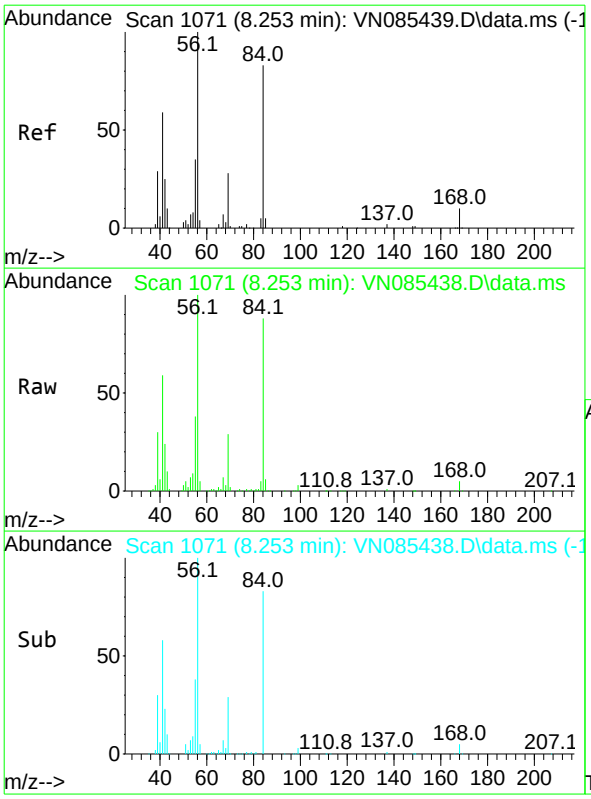


#30
Chloroform
Concen: 98.253 ug/l
RT: 7.959 min Scan# 1021
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 83 Resp: 484941

Ion	Ratio	Lower	Upper
83	100		
85	65.0	51.8	77.6

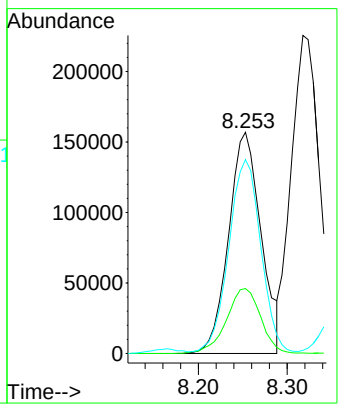




#31
Cyclohexane
Concen: 96.041 ug/l
RT: 8.253 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 56 Resp: 398641

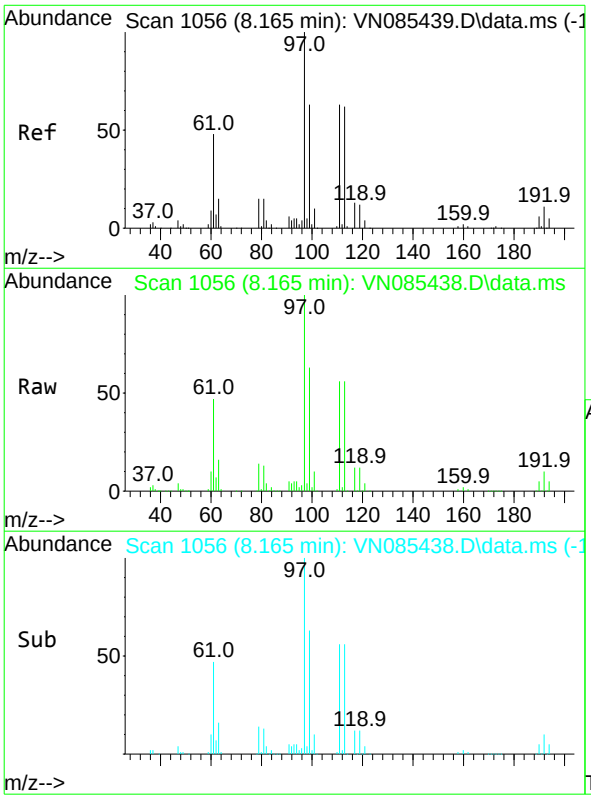
Ion	Ratio	Lower	Upper
56	100		
69	29.2	22.2	33.4
84	86.4	66.4	99.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

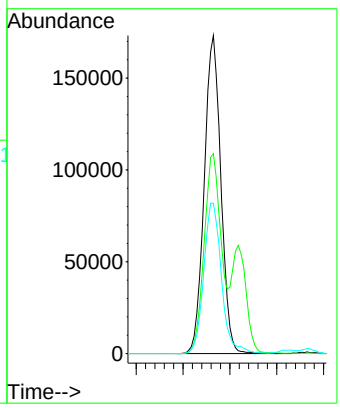
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

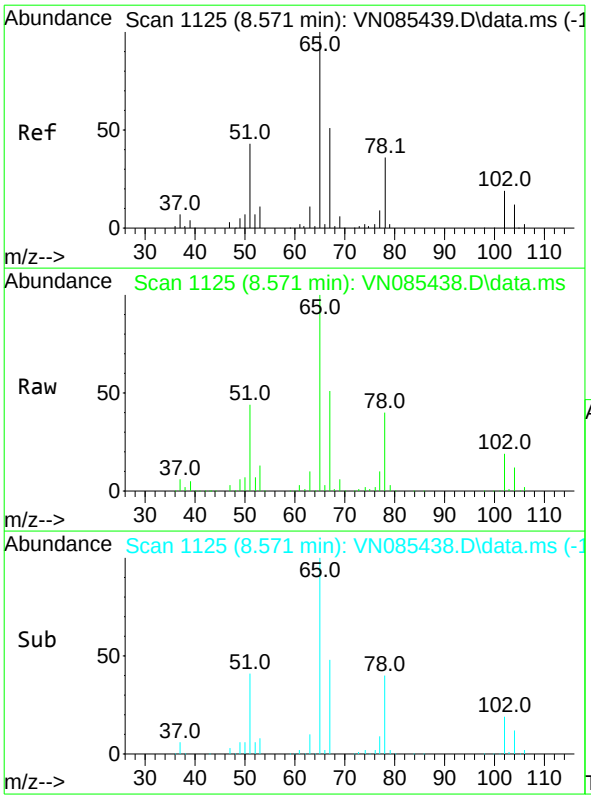


#32
1,1,1-Trichloroethane
Concen: 98.578 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 97 Resp: 426782

Ion	Ratio	Lower	Upper
97	100		
99	64.2	49.8	74.6
61	50.6	41.4	62.2

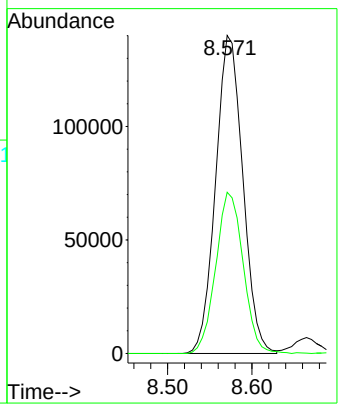




#33
1,2-Dichloroethane-d4
Concen: 95.899 ug/l
RT: 8.571 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 65 Resp: 313645

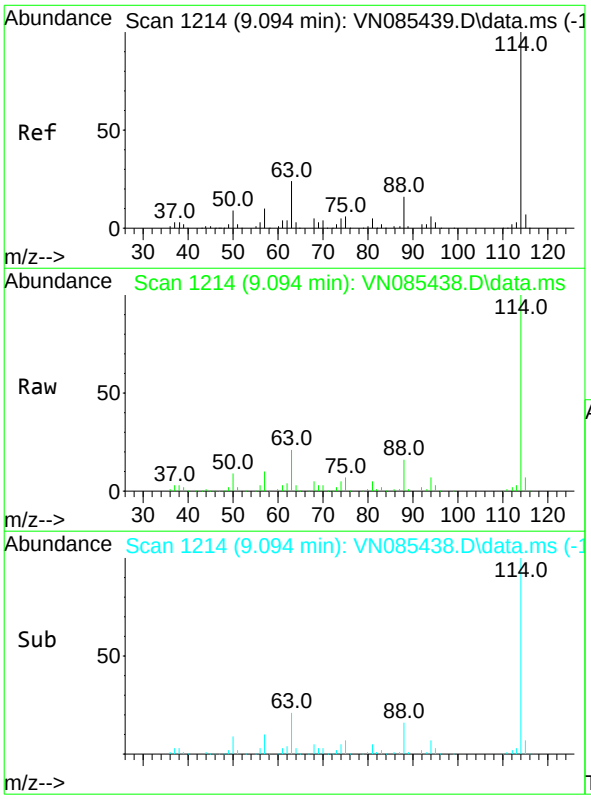
Ion	Ratio	Lower	Upper
65	100		
67	51.1	0.0	101.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

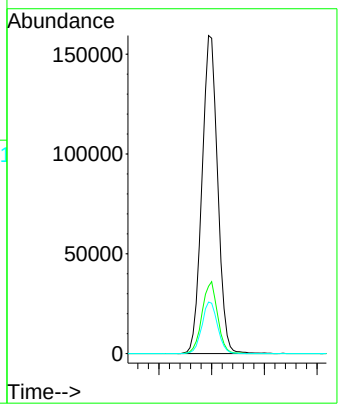
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

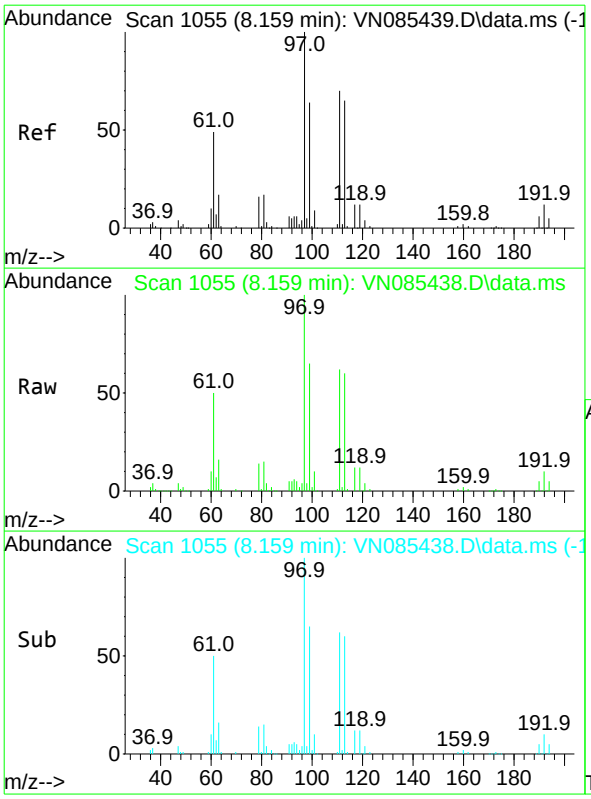


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.094 min Scan# 1214
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion:114 Resp: 329363

Ion	Ratio	Lower	Upper
114	100		
63	21.2	0.0	47.6
88	16.2	0.0	32.6

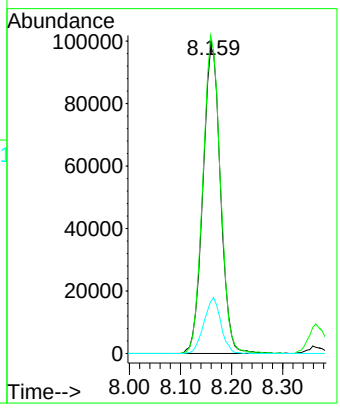




#35
Dibromofluoromethane
Concen: 103.353 ug/l
RT: 8.159 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion:113 Resp: 236159

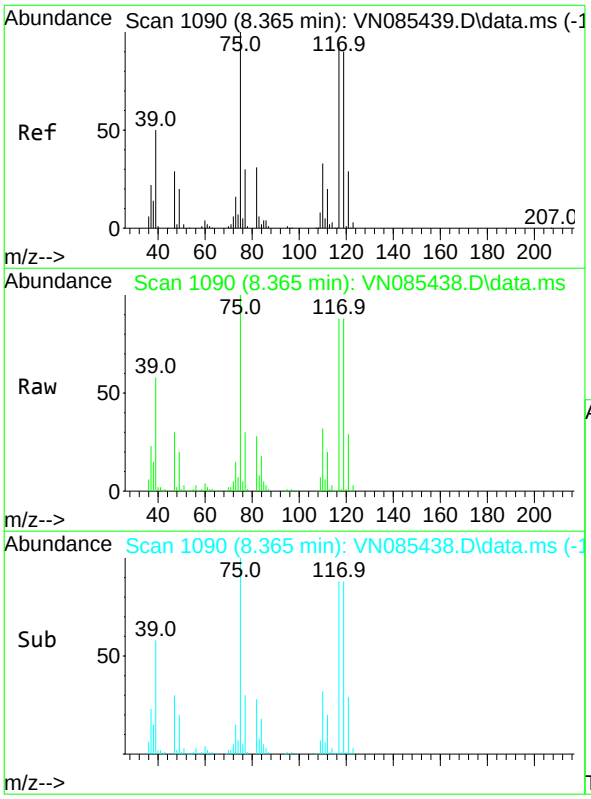
Ion	Ratio	Lower	Upper
113	100		
111	102.3	82.7	124.1
192	17.4	14.3	21.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

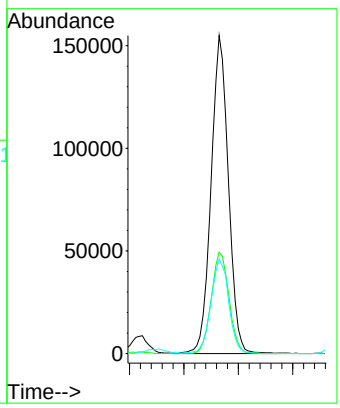
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

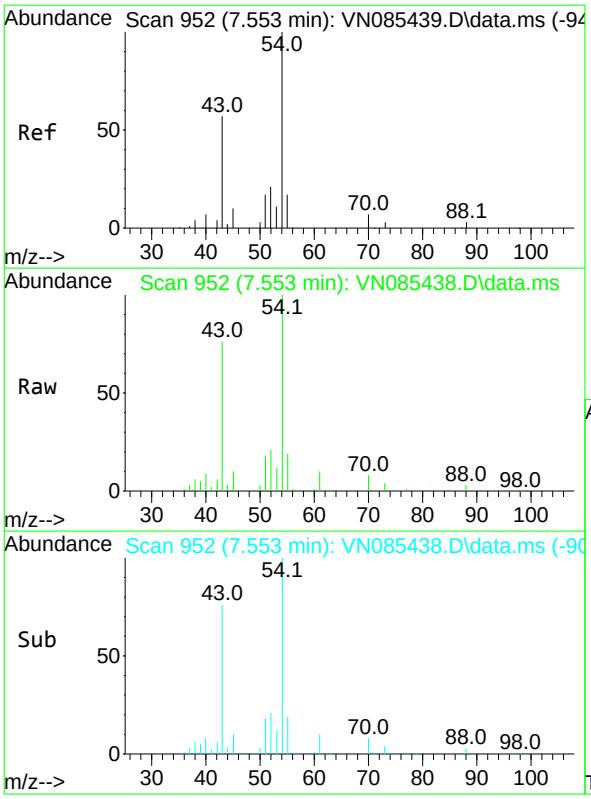


#36
1,1-Dichloropropene
Concen: 106.945 ug/l
RT: 8.365 min Scan# 1090
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 75 Resp: 342961

Ion	Ratio	Lower	Upper
75	100		
110	32.6	16.5	49.5
77	30.6	24.4	36.6





#37
Ethyl Acetate
Concen: 100.961 ug/l
RT: 7.553 min Scan# 95
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

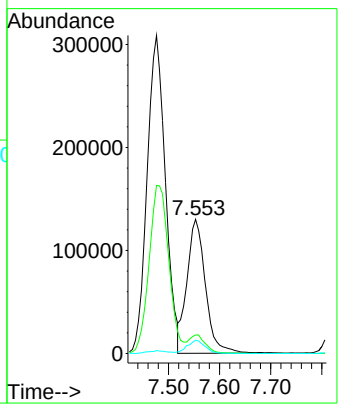
Tgt Ion: 43 Resp: 326802

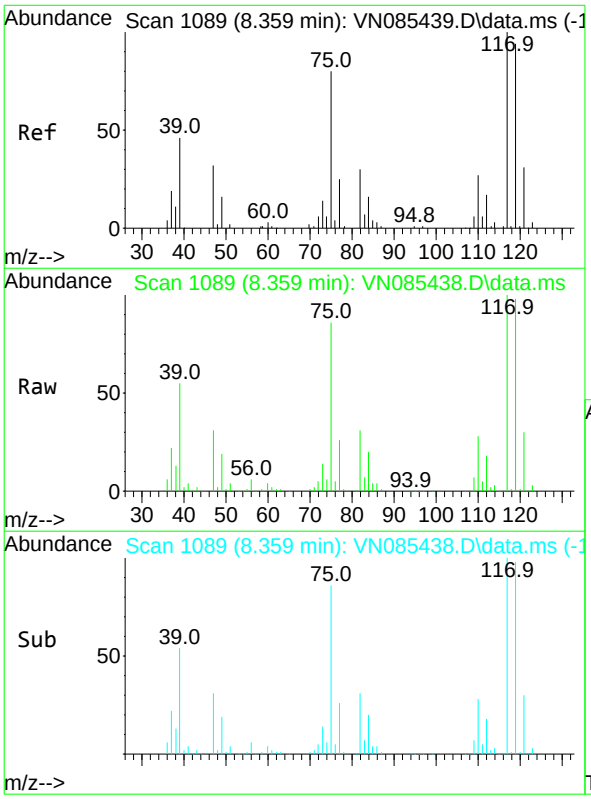
Ion	Ratio	Lower	Upper
43	100		
61	12.0	10.9	16.3
70	9.6	7.5	11.3

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

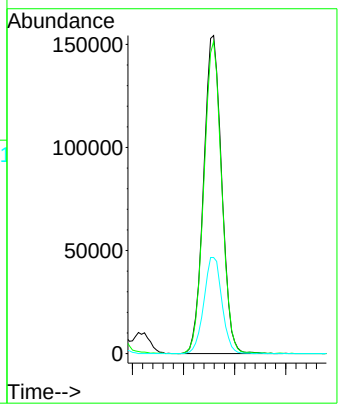


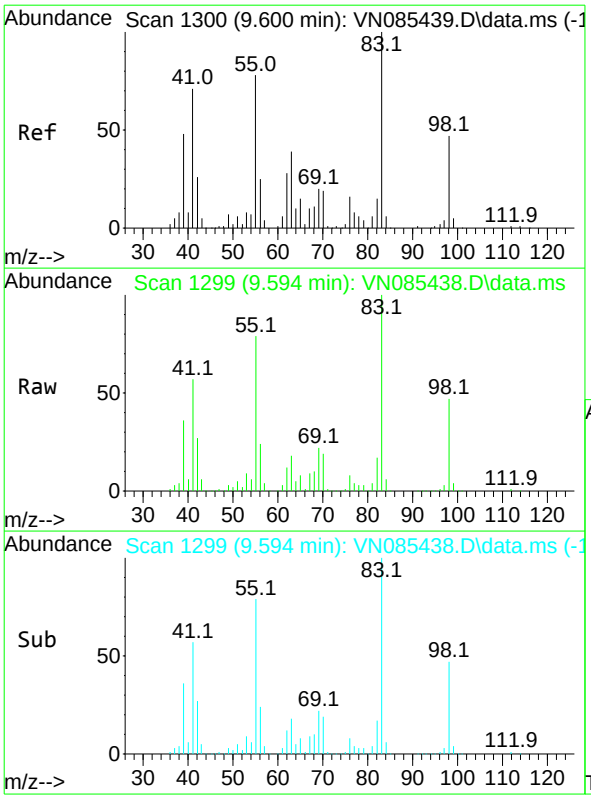


#38
Carbon Tetrachloride
Concen: 103.065 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion:117 Resp: 378390

Ion	Ratio	Lower	Upper
117	100		
119	98.1	75.4	113.2
121	30.2	24.6	37.0

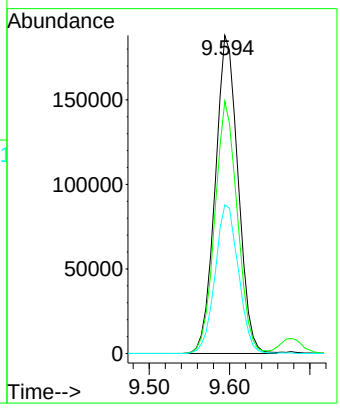




#39
Methylcyclohexane
Concen: 123.354 ug/l
RT: 9.594 min Scan# 12
Delta R.T. -0.006 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 83 Resp: 371734

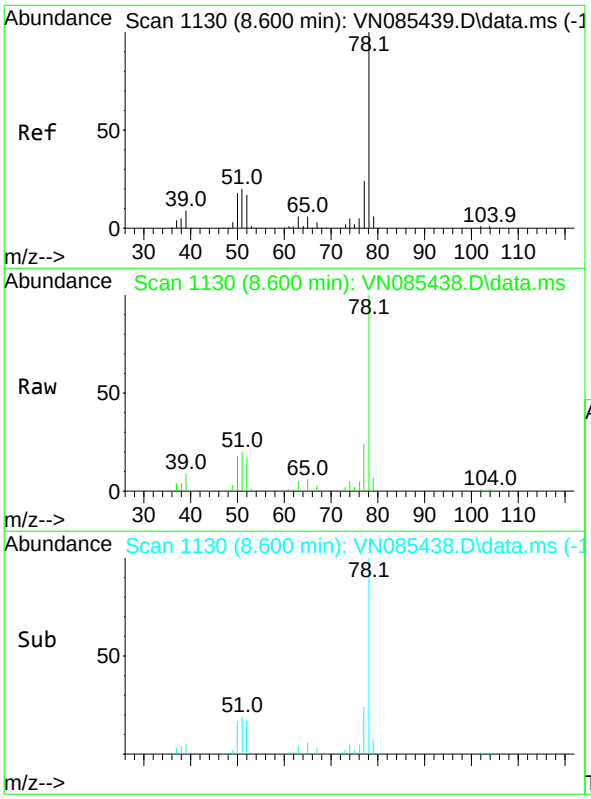
Ion	Ratio	Lower	Upper
83	100		
55	79.3	62.6	94.0
98	46.7	37.7	56.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

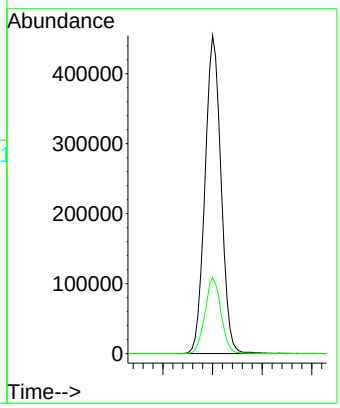
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

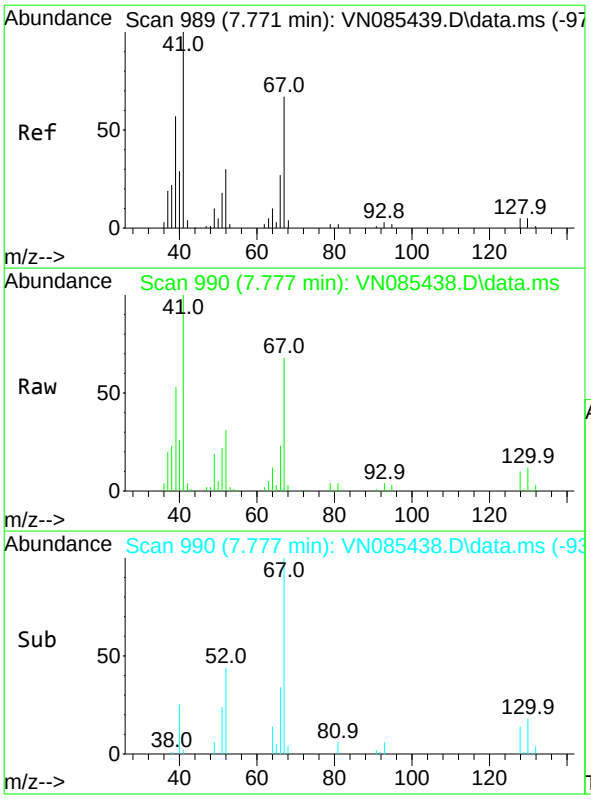


#40
Benzene
Concen: 106.001 ug/l
RT: 8.600 min Scan# 1130
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 78 Resp: 1021393

Ion	Ratio	Lower	Upper
78	100		
77	23.9	19.0	28.6

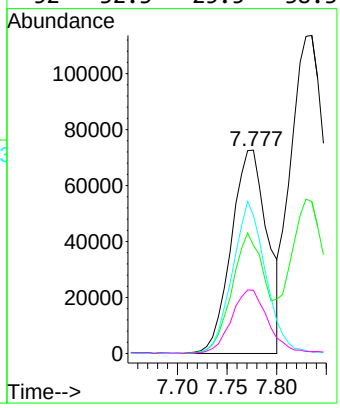




#41
Methacrylonitrile
Concen: 109.454 ug/l
RT: 7.777 min Scan# 99
Delta R.T. 0.006 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 41 Resp: 184326

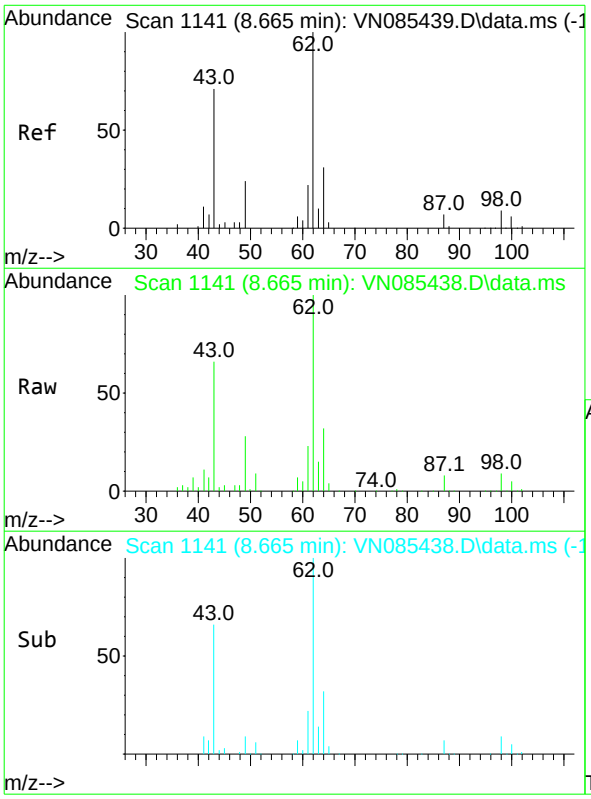
Ion	Ratio	Lower	Upper
41	100		
39	52.8	46.0	69.0
67	68.8	57.4	86.2
52	32.3	25.5	38.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

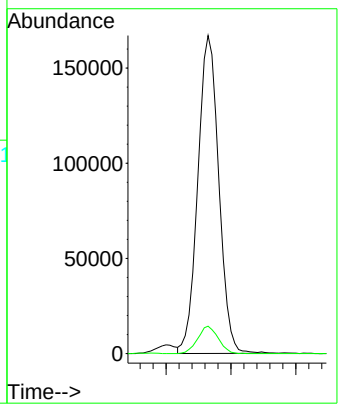
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

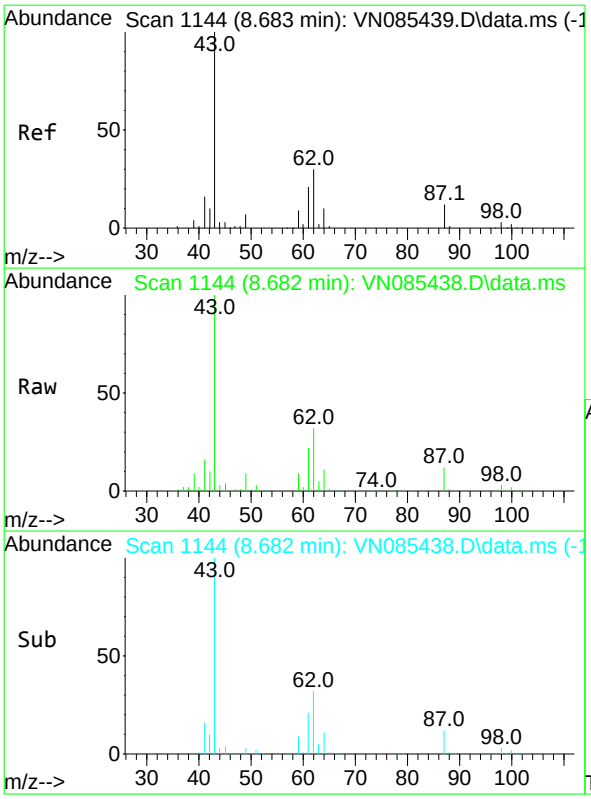


#42
1,2-Dichloroethane
Concen: 103.314 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 62 Resp: 374938

Ion	Ratio	Lower	Upper
62	100		
98	8.4	0.0	17.0

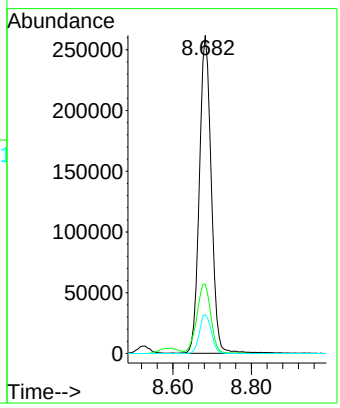




#43
Isopropyl Acetate
Concen: 106.035 ug/l
RT: 8.682 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 43 Resp: 549969

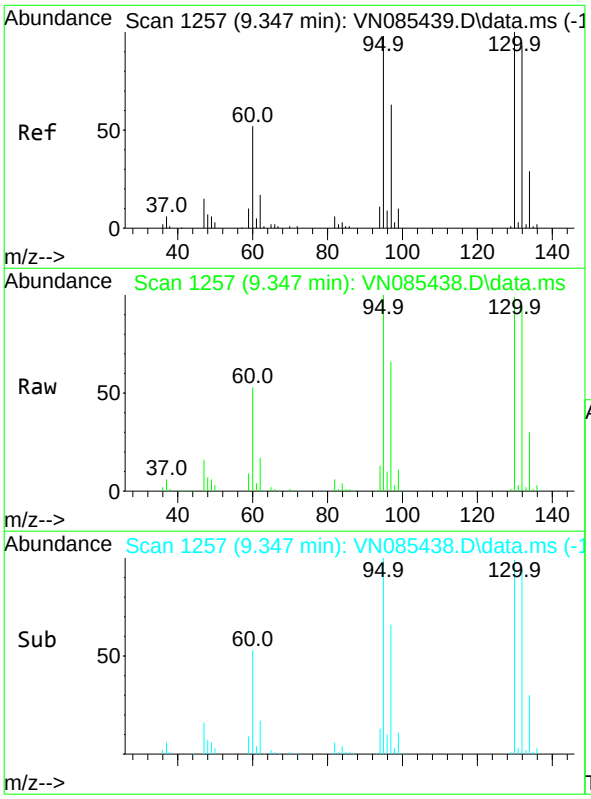
Ion	Ratio	Lower	Upper
43	100		
61	25.7	20.7	31.1
87	12.2	9.8	14.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

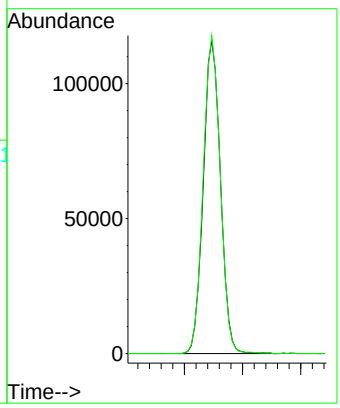
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

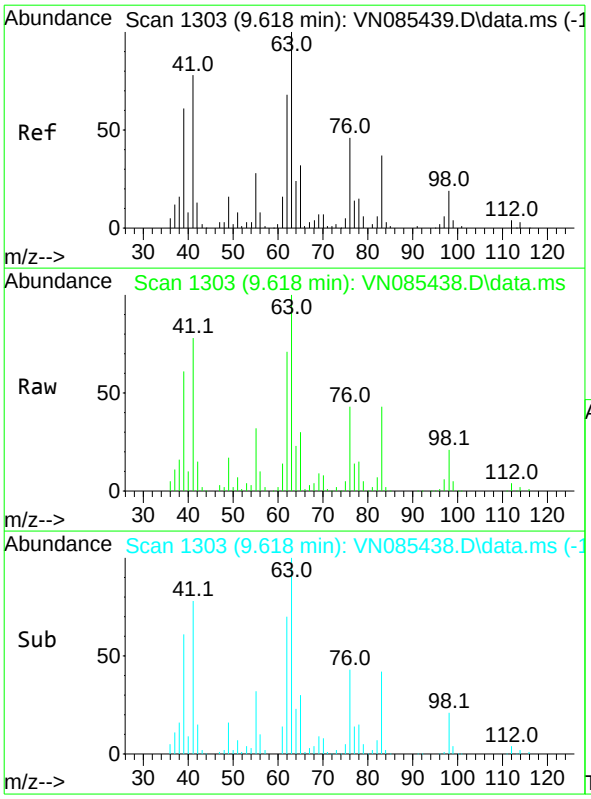


#44
Trichloroethene
Concen: 106.242 ug/l
RT: 9.347 min Scan# 1257
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion:130 Resp: 238296

Ion	Ratio	Lower	Upper
130	100		
95	101.5	0.0	195.8

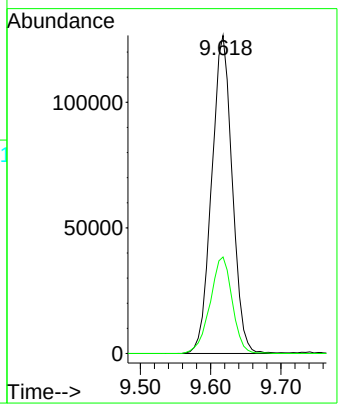




#45
1,2-Dichloropropane
Concen: 104.405 ug/l
RT: 9.618 min Scan# 13
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 63 Resp: 256964

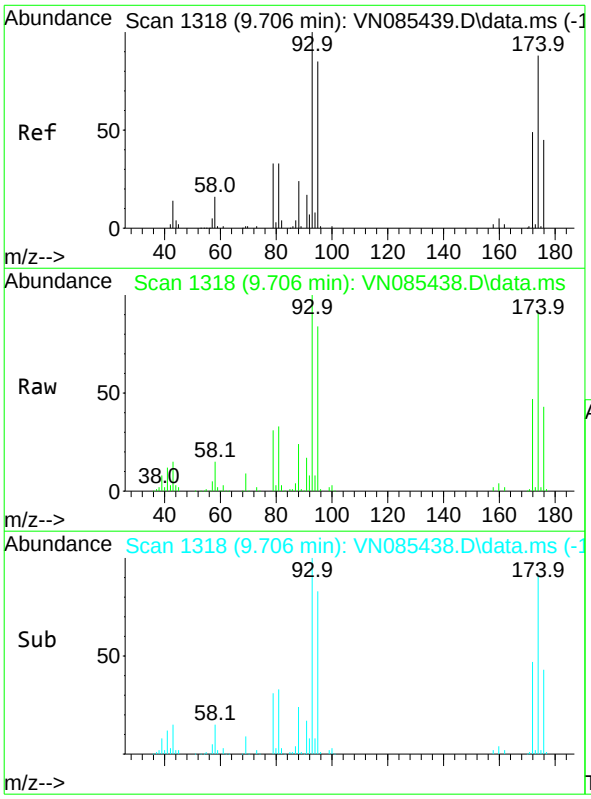
Ion	Ratio	Lower	Upper
63	100		
65	30.3	25.6	38.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

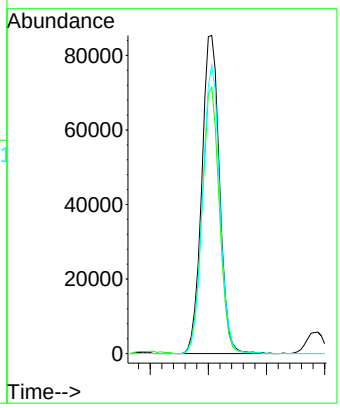
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

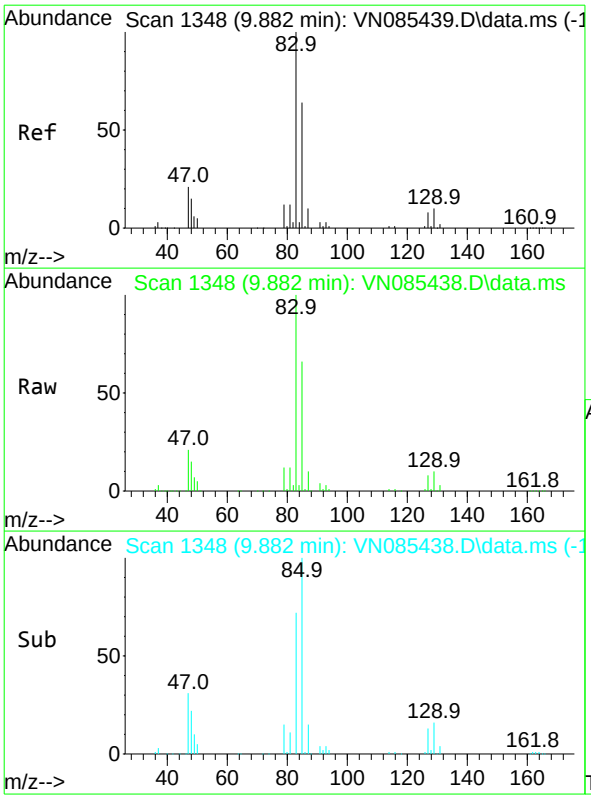


#46
Dibromomethane
Concen: 101.913 ug/l
RT: 9.706 min Scan# 1318
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 93 Resp: 180990

Ion	Ratio	Lower	Upper
93	100		
95	81.6	64.7	97.1
174	87.5	69.0	103.4

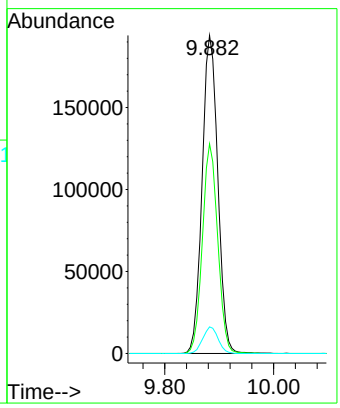




#47
Bromodichloromethane
Concen: 107.377 ug/l
RT: 9.882 min Scan# 13
Delta R.T. 0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 83 Resp: 388499

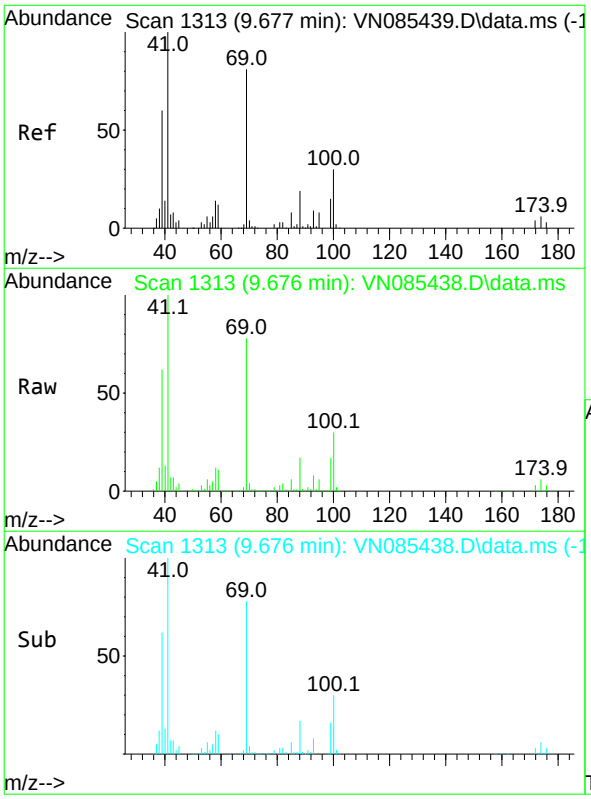
Ion	Ratio	Lower	Upper
83	100		
85	65.9	51.2	76.8
127	8.4	6.5	9.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

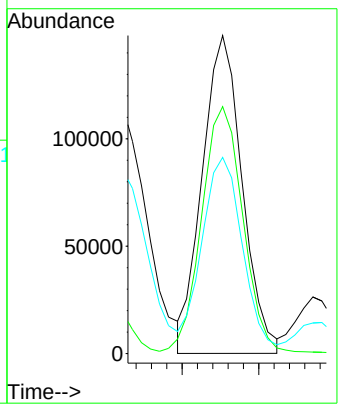
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

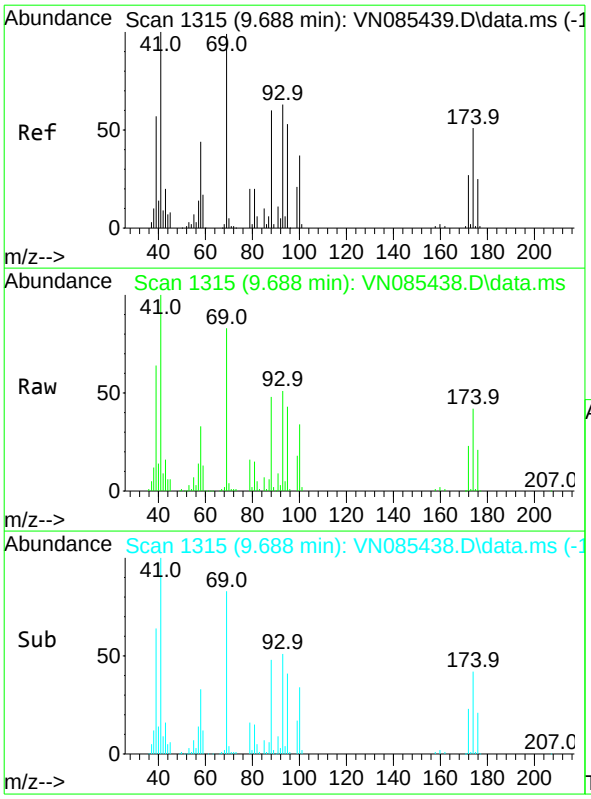


#48
Methyl methacrylate
Concen: 114.685 ug/l
RT: 9.676 min Scan# 1313
Delta R.T. -0.001 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 41 Resp: 267689

Ion	Ratio	Lower	Upper
41	100		
69	80.9	64.7	97.1
39	63.1	49.0	73.6

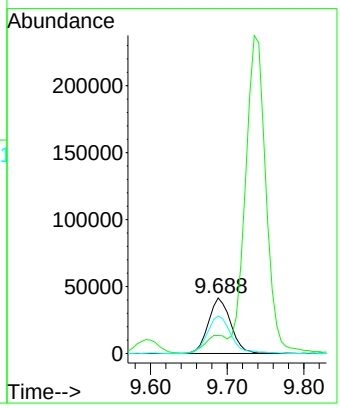




#49
1,4-Dioxane
Concen: 2133.992 ug/l
RT: 9.688 min Scan# 13
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 88 Resp: 83879

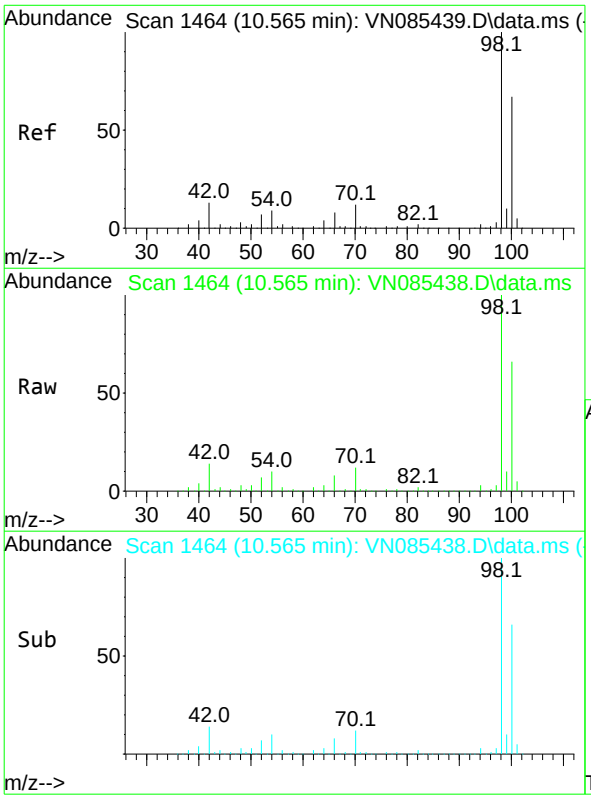
Ion	Ratio	Lower	Upper
88	100		
43	31.3	26.6	39.8
58	72.1	59.5	89.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

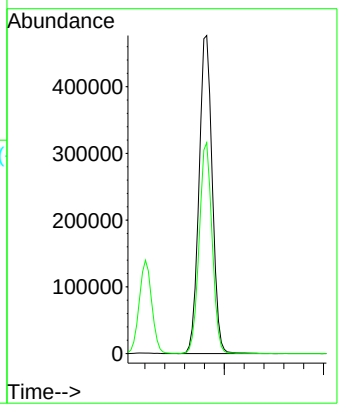
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

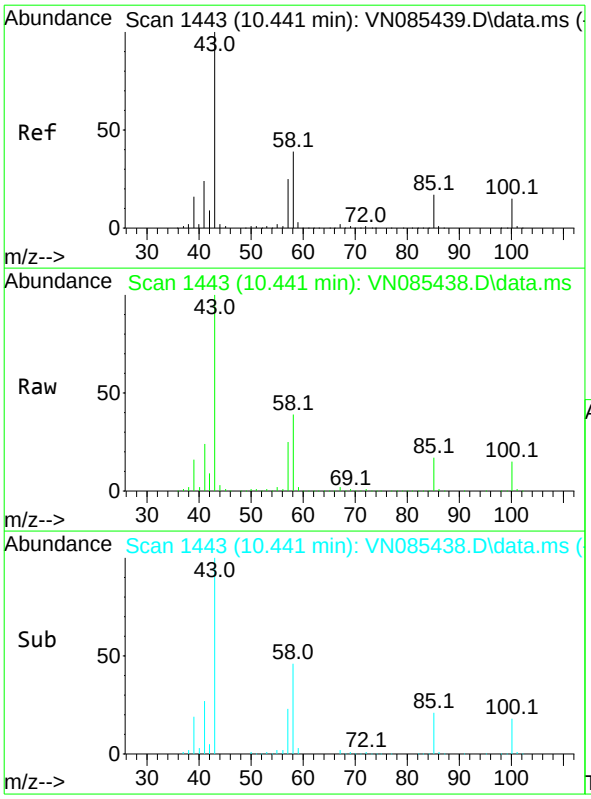


#50
Toluene-d8
Concen: 108.636 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 98 Resp: 881956

Ion	Ratio	Lower	Upper
98	100		
100	64.5	52.2	78.4

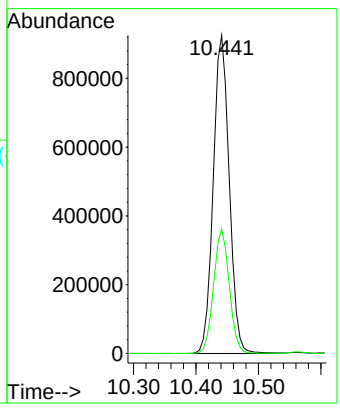




#51
4-Methyl-2-Pentanone
Concen: 546.159 ug/l
RT: 10.441 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 43 Resp: 1643800

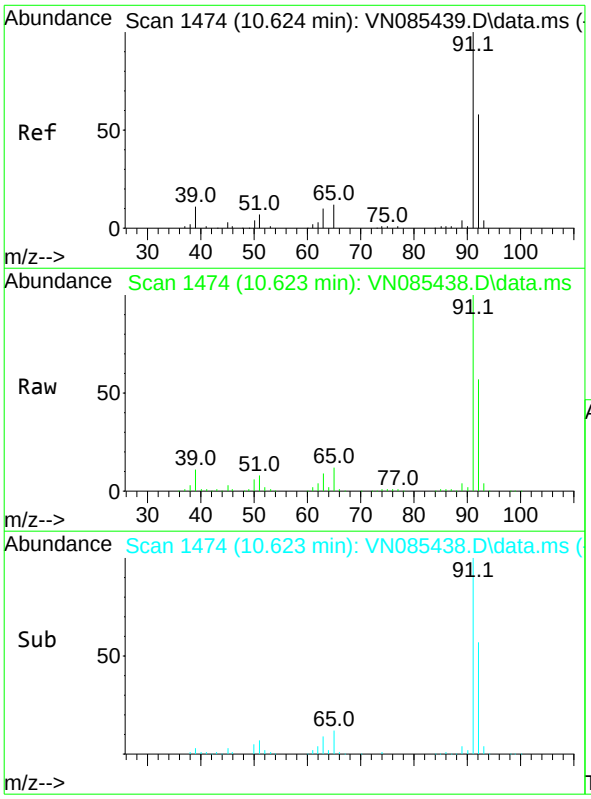
Ion	Ratio	Lower	Upper
43	100		
58	38.4	30.5	45.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

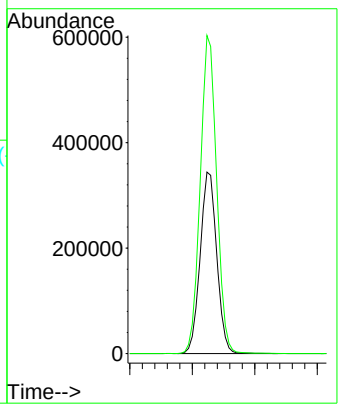
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

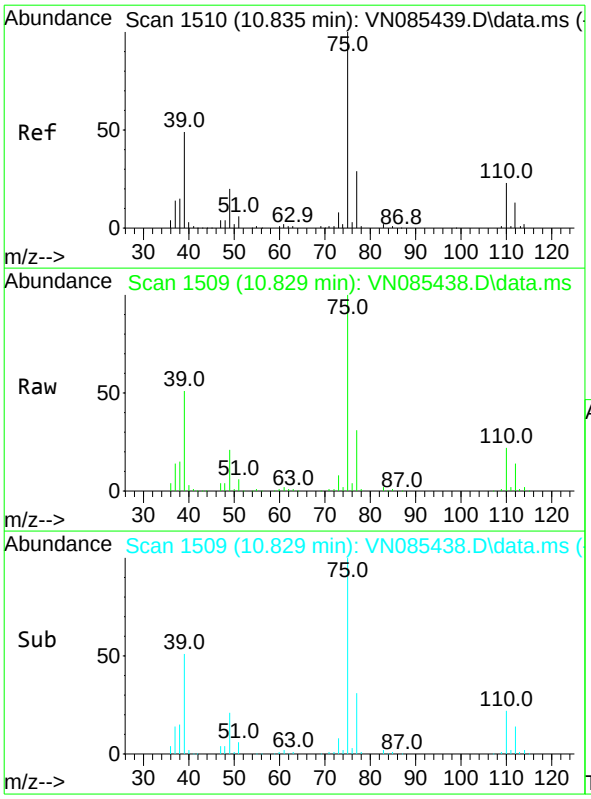


#52
Toluene
Concen: 113.689 ug/l
RT: 10.623 min Scan# 1474
Delta R.T. -0.001 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 92 Resp: 634743

Ion	Ratio	Lower	Upper
92	100		
91	173.1	139.2	208.8

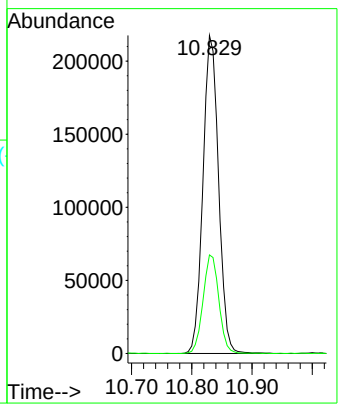




#53
t-1,3-Dichloropropene
Concen: 114.424 ug/l
RT: 10.829 min Scan# 15
Delta R.T. -0.006 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 75 Resp: 391238

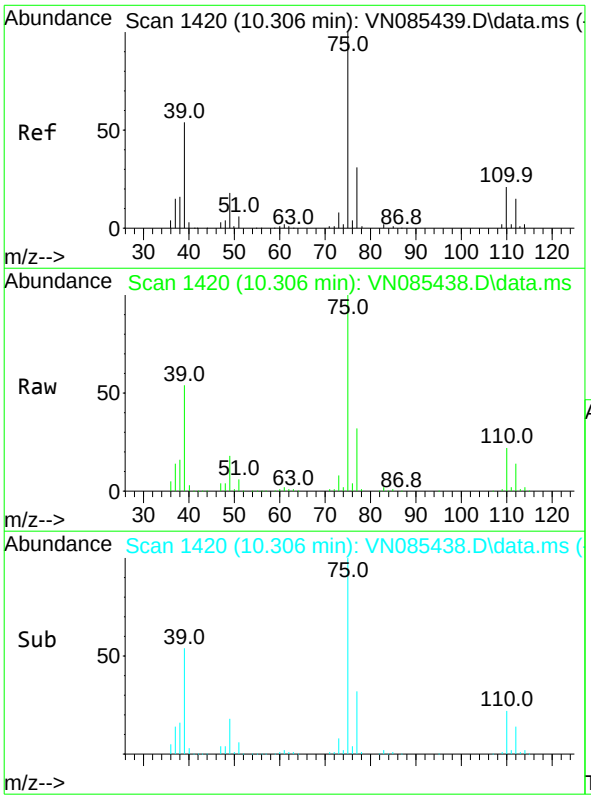
Ion	Ratio	Lower	Upper
75	100		
77	31.0	23.5	35.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

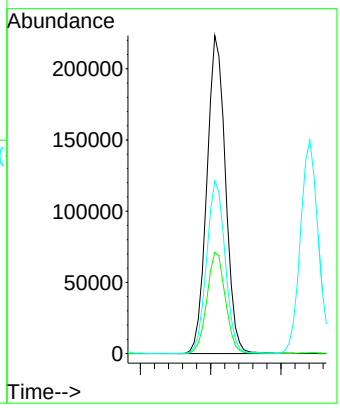
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

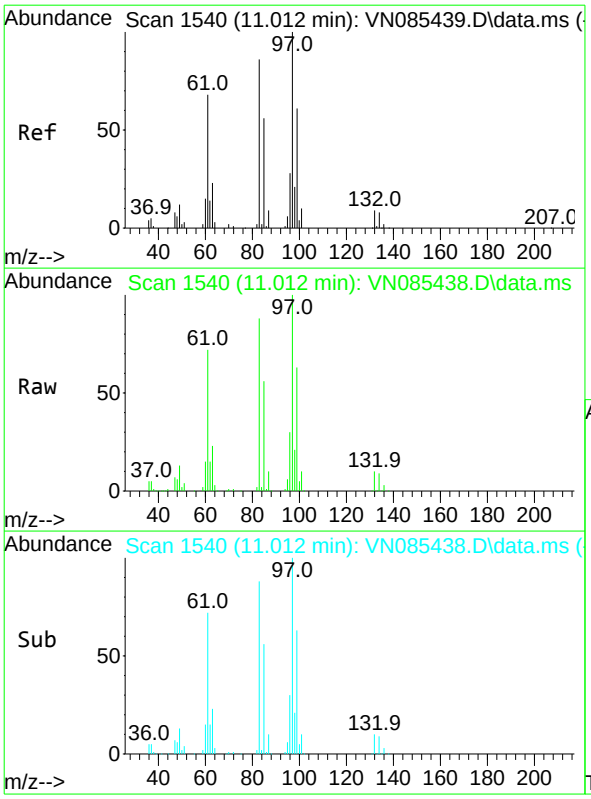


#54
cis-1,3-Dichloropropene
Concen: 112.369 ug/l
RT: 10.306 min Scan# 1420
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 75 Resp: 410403

Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.0	37.4
39	54.3	43.1	64.7

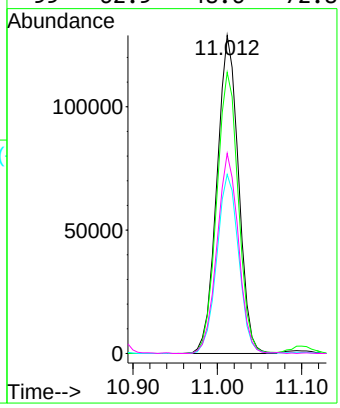




#55
1,1,2-Trichloroethane
Concen: 103.879 ug/l
RT: 11.012 min Scan# 15
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 97 Resp: 229522

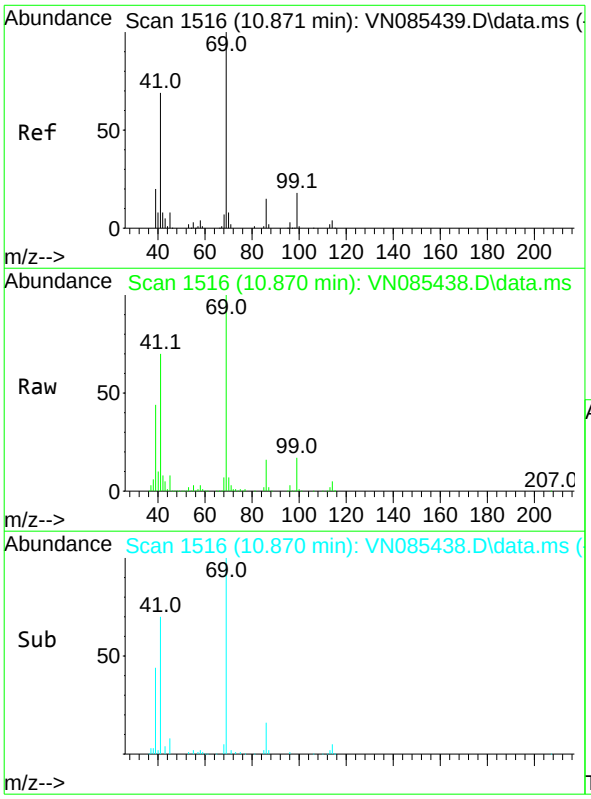
Ion	Ratio	Lower	Upper
97	100		
83	88.4	69.0	103.6
85	56.3	44.6	66.8
99	62.9	48.6	72.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

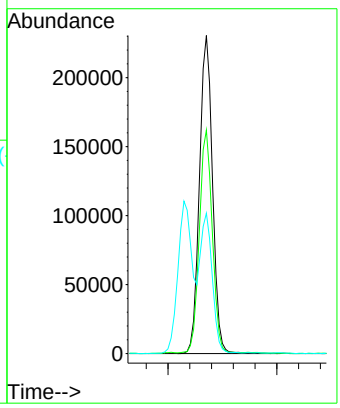
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

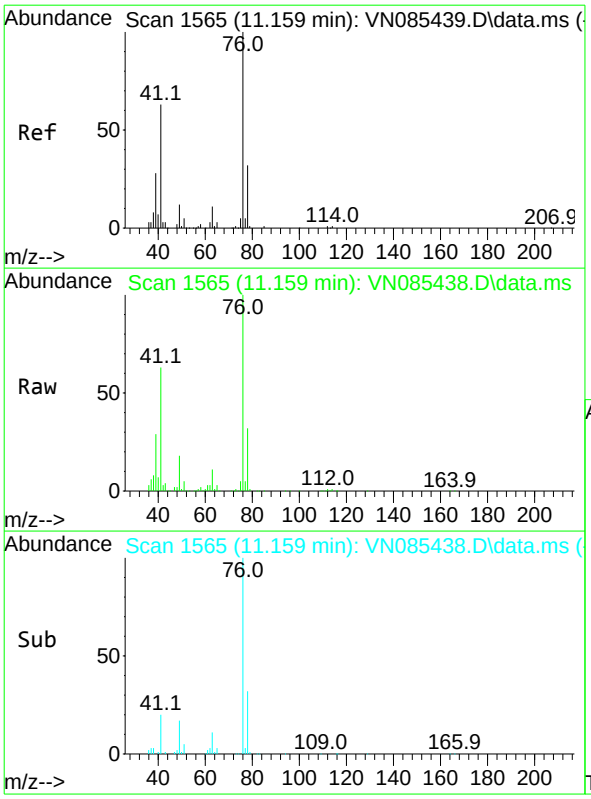


#56
Ethyl methacrylate
Concen: 101.029 ug/l
RT: 10.870 min Scan# 1516
Delta R.T. -0.001 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 69 Resp: 383663

Ion	Ratio	Lower	Upper
69	100		
41	69.1	54.6	82.0
39	40.1	32.4	48.6

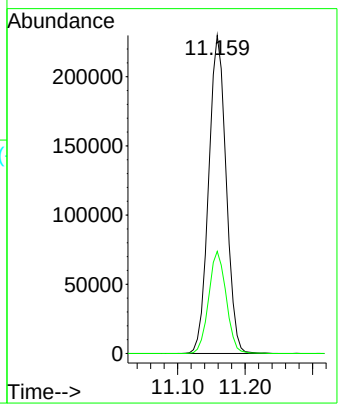




#57
1,3-Dichloropropane
Concen: 107.469 ug/l
RT: 11.159 min Scan# 15
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 76 Resp: 412886

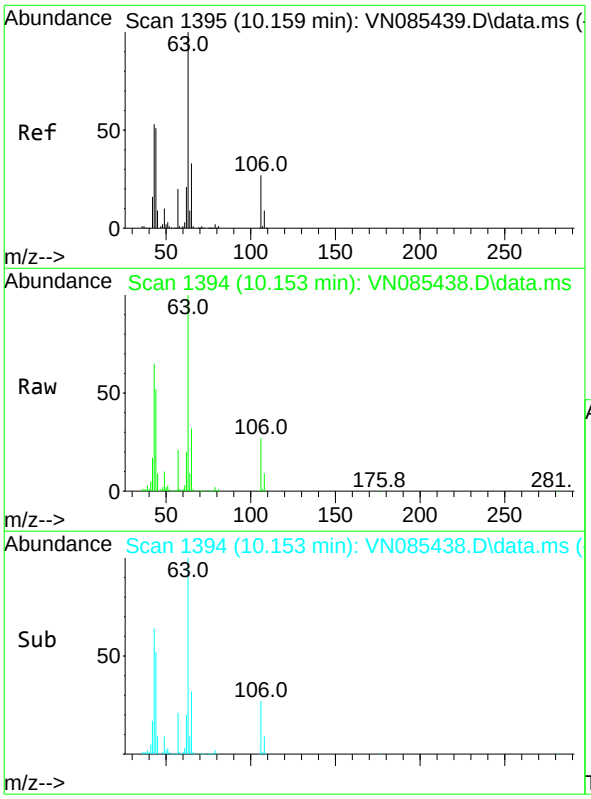
Ion	Ratio	Lower	Upper
76	100		
78	32.2	25.6	38.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

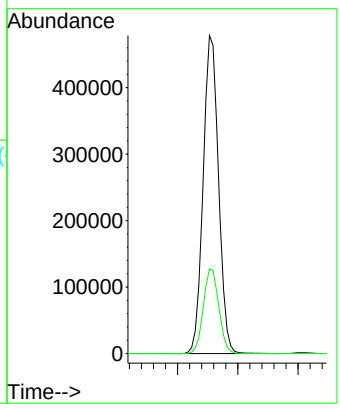
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

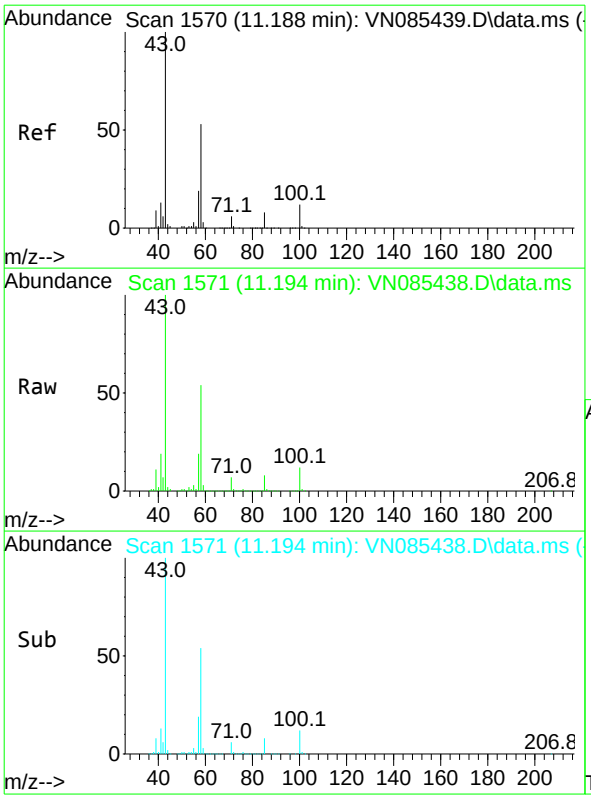


#58
2-Chloroethyl Vinyl ether
Concen: 605.243 ug/l
RT: 10.153 min Scan# 1394
Delta R.T. -0.006 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 63 Resp: 848636

Ion	Ratio	Lower	Upper
63	100		
106	26.8	21.6	32.4

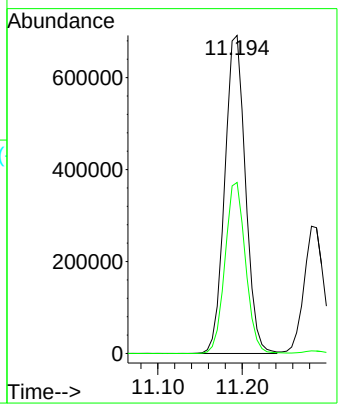




#59
2-Hexanone
Concen: 556.643 ug/l
RT: 11.194 min Scan# 15
Delta R.T. 0.006 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 43 Resp: 1178831

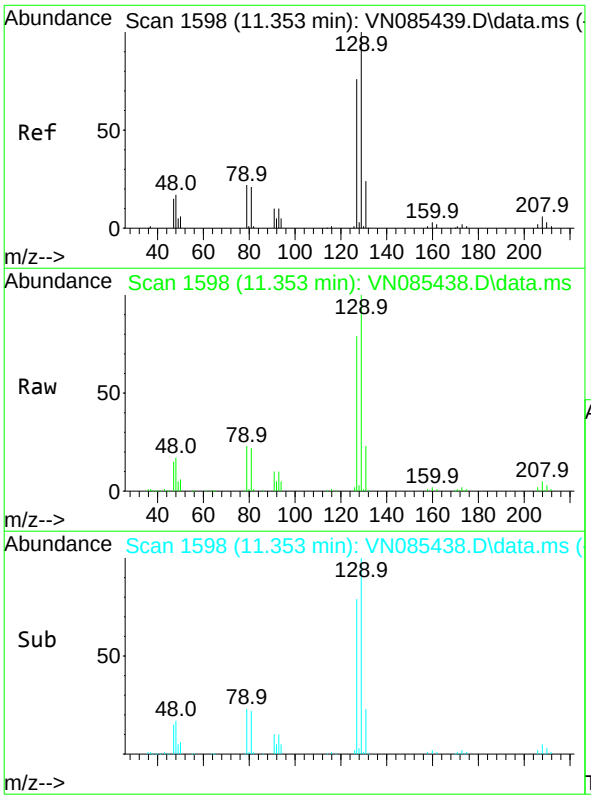
Ion	Ratio	Lower	Upper
43	100		
58	53.2	26.2	78.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

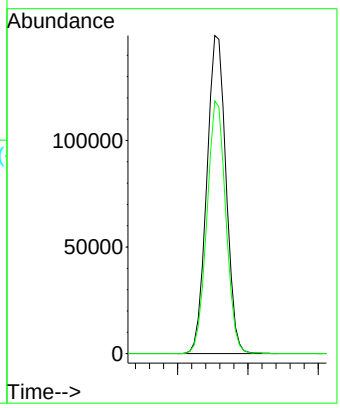
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

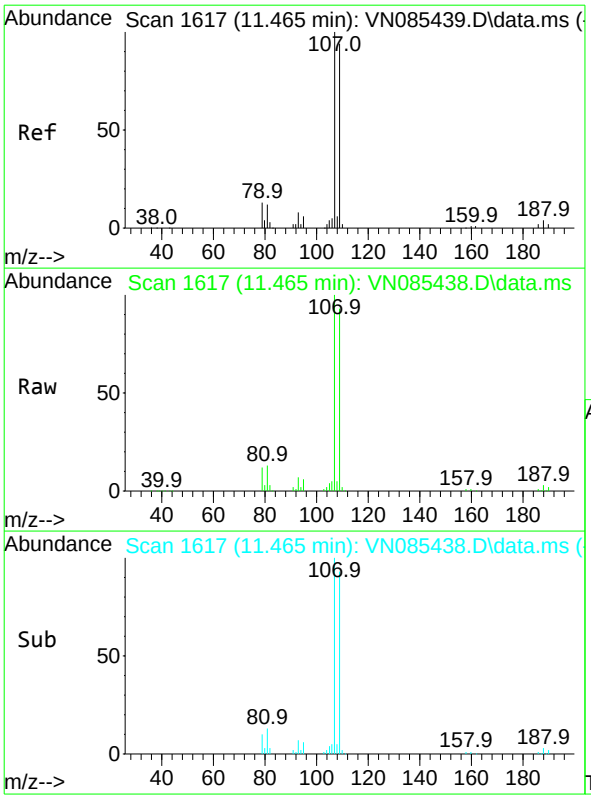


#60
Dibromochloromethane
Concen: 106.227 ug/l
RT: 11.353 min Scan# 1598
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion:129 Resp: 283361

Ion	Ratio	Lower	Upper
129	100		
127	78.1	38.6	115.8

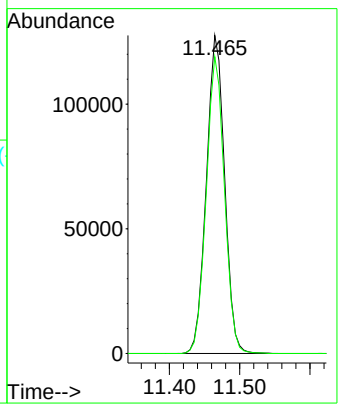




#61
1,2-Dibromoethane
Concen: 104.623 ug/l
RT: 11.465 min Scan# 16
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion:107 Resp: 230104

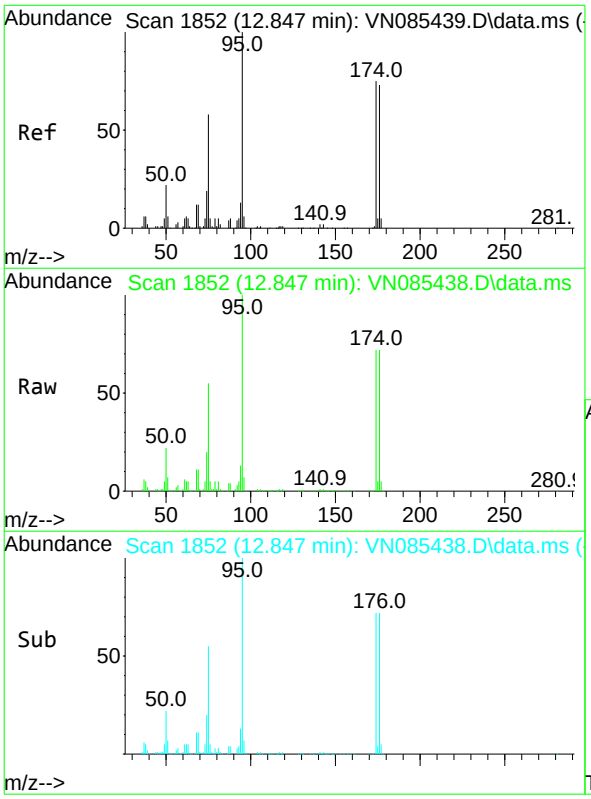
Ion	Ratio	Lower	Upper
107	100		
109	93.1	75.9	113.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

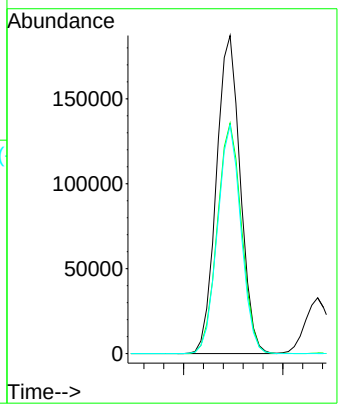
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

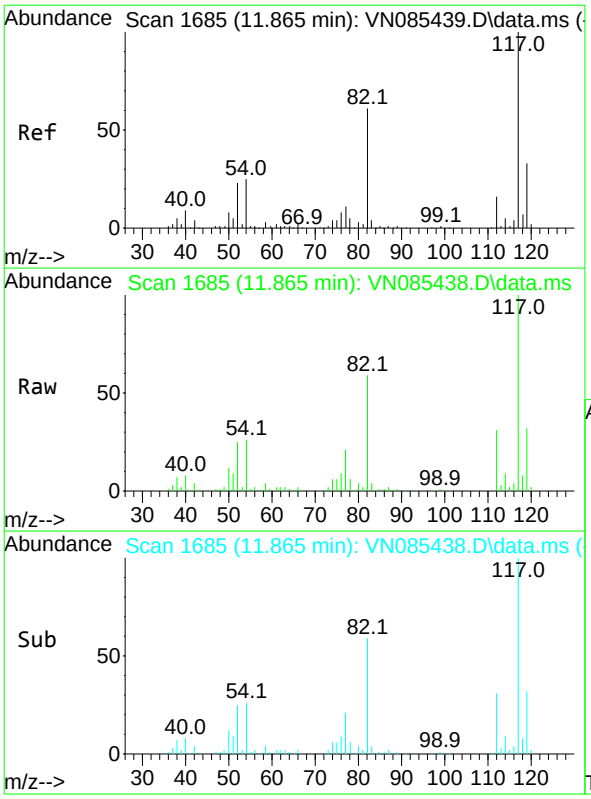


#62
4-Bromofluorobenzene
Concen: 112.765 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 95 Resp: 313161

Ion	Ratio	Lower	Upper
95	100		
174	73.4	0.0	145.0
176	70.5	0.0	142.4

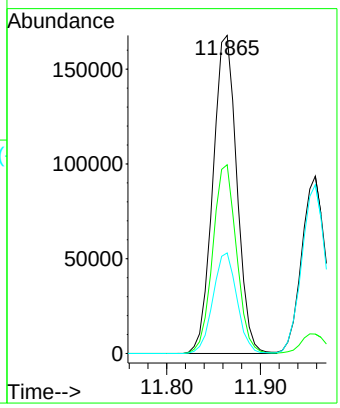




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 16
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion:117 Resp: 298938

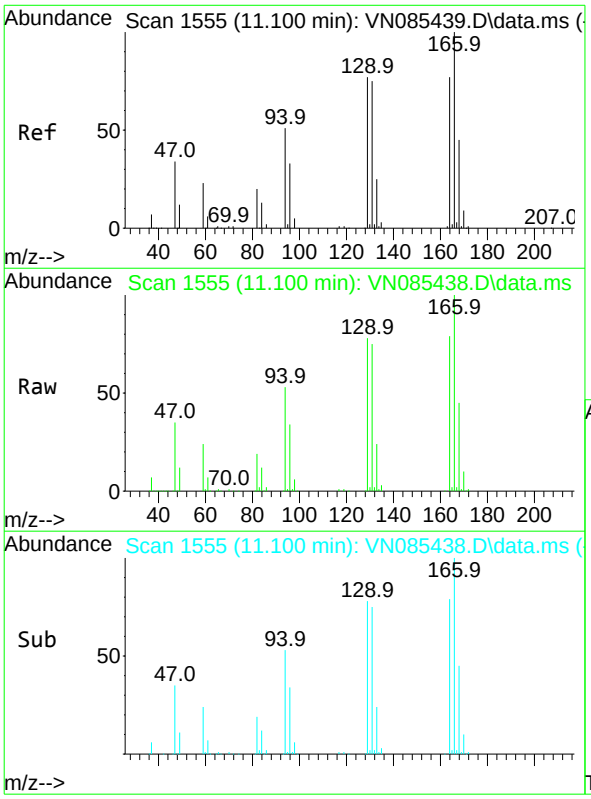
Ion	Ratio	Lower	Upper
117	100		
82	59.3	48.6	72.8
119	31.6	26.6	39.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

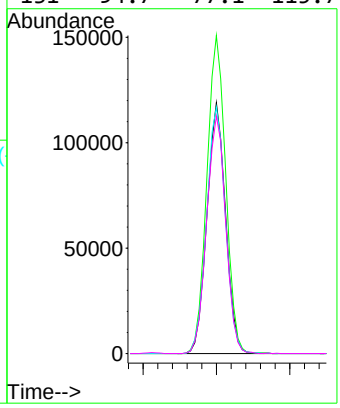
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

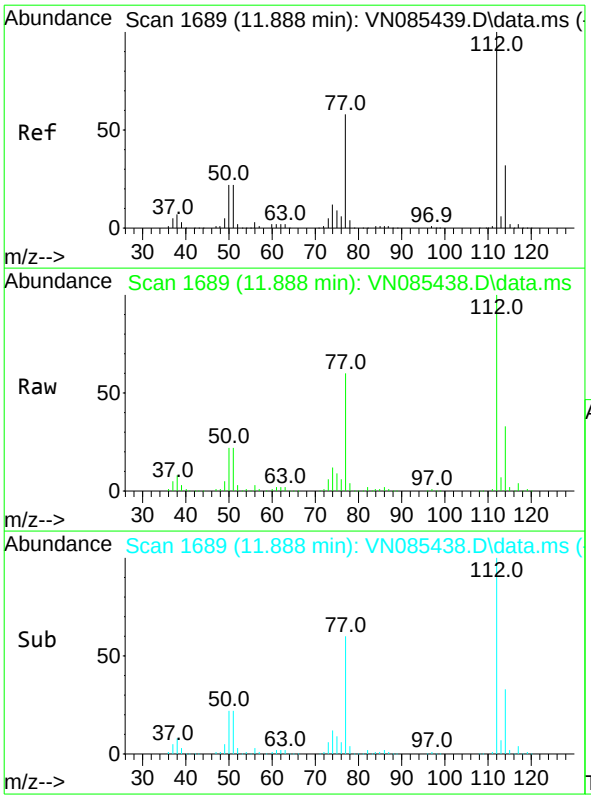


#64
Tetrachloroethene
Concen: 102.980 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion:164 Resp: 209870

Ion	Ratio	Lower	Upper
164	100		
166	126.8	103.4	155.2
129	98.3	79.2	118.8
131	94.7	77.1	115.7

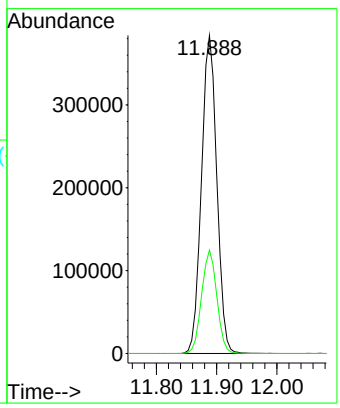




#65
Chlorobenzene
Concen: 103.482 ug/l
RT: 11.888 min Scan# 16
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion:112 Resp: 677679

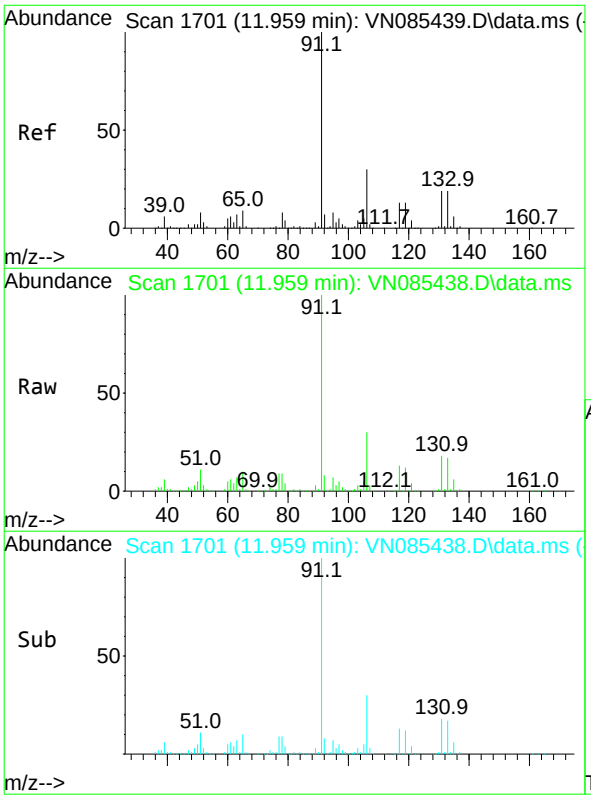
Ion	Ratio	Lower	Upper
112	100		
114	32.5	25.3	37.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

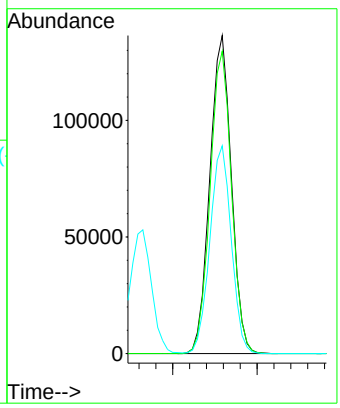
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

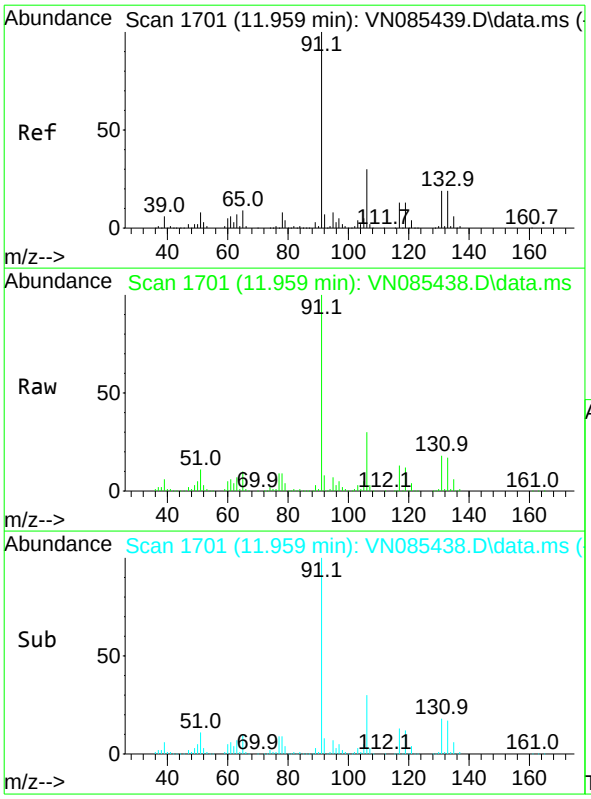


#66
1,1,1,2-Tetrachloroethane
Concen: 100.517 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion:131 Resp: 241593

Ion	Ratio	Lower	Upper
131	100		
133	94.3	47.4	142.3
119	64.9	33.1	99.5

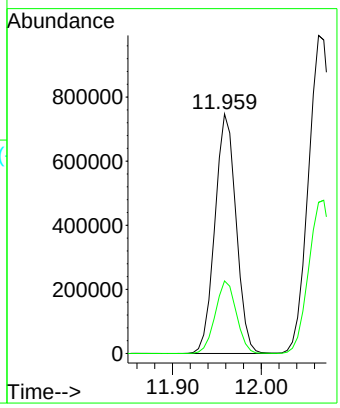




#67
Ethyl Benzene
Concen: 116.169 ug/l
RT: 11.959 min Scan# 17
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 91 Resp: 1239080

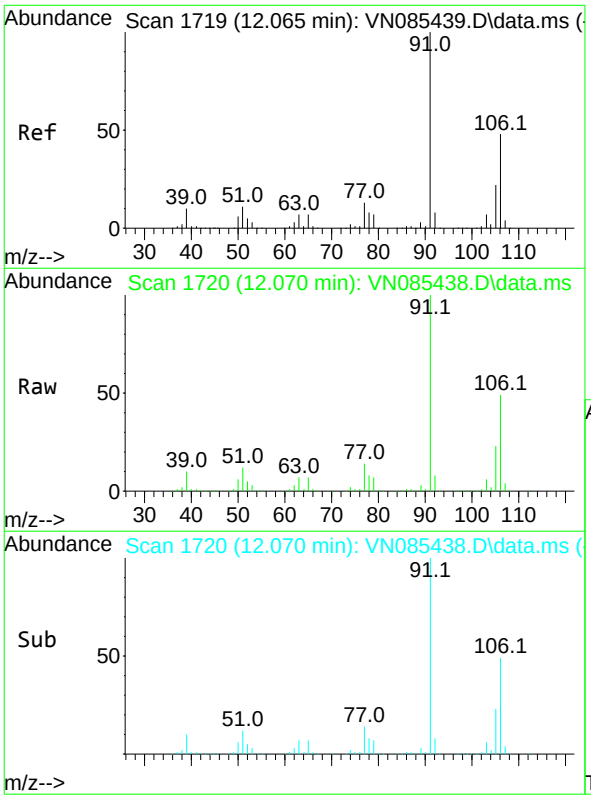
Ion	Ratio	Lower	Upper
91	100		
106	30.3	23.8	35.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

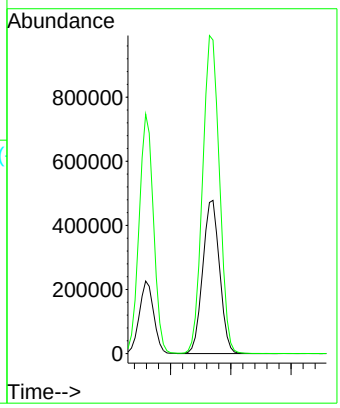
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

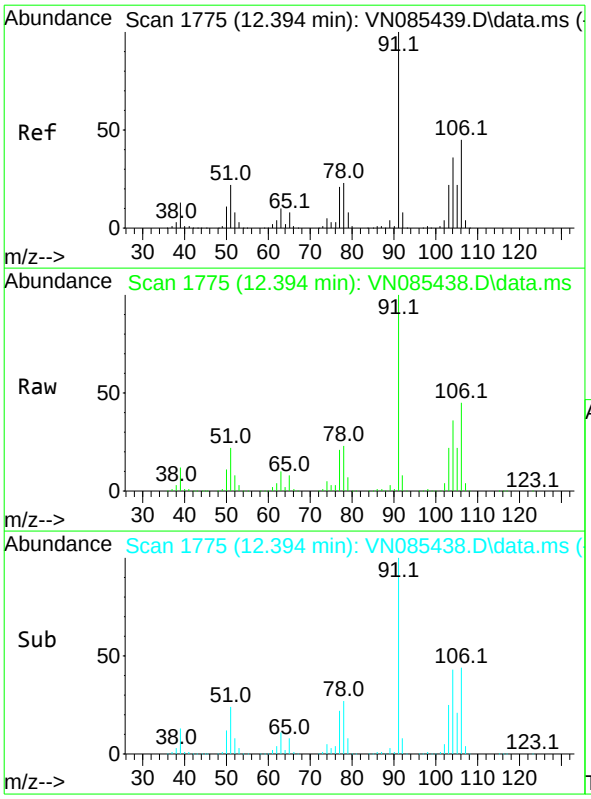


#68
m/p-Xylenes
Concen: 235.219 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. 0.006 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion:106 Resp: 927244

Ion	Ratio	Lower	Upper
106	100		
91	208.0	167.7	251.5

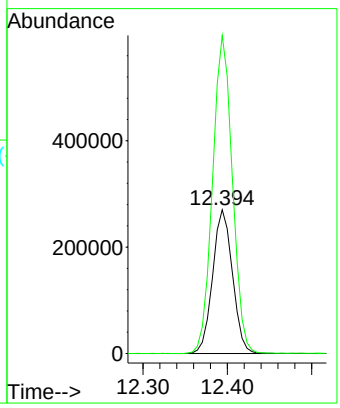




#69
o-Xylene
Concen: 117.135 ug/l
RT: 12.394 min Scan# 17
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion:106 Resp: 441279

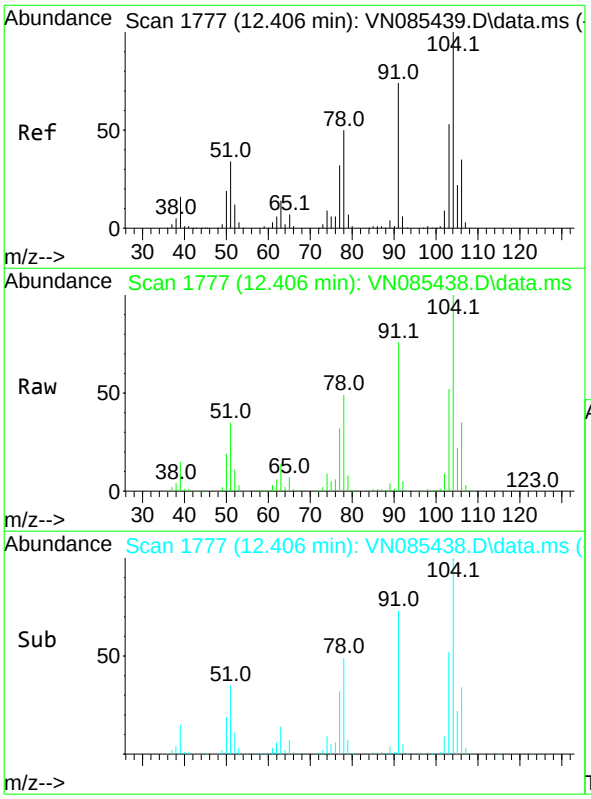
Ion	Ratio	Lower	Upper
106	100		
91	221.3	110.4	331.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

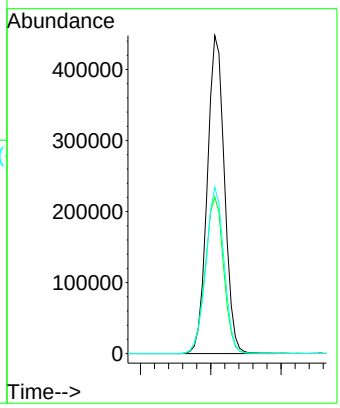
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

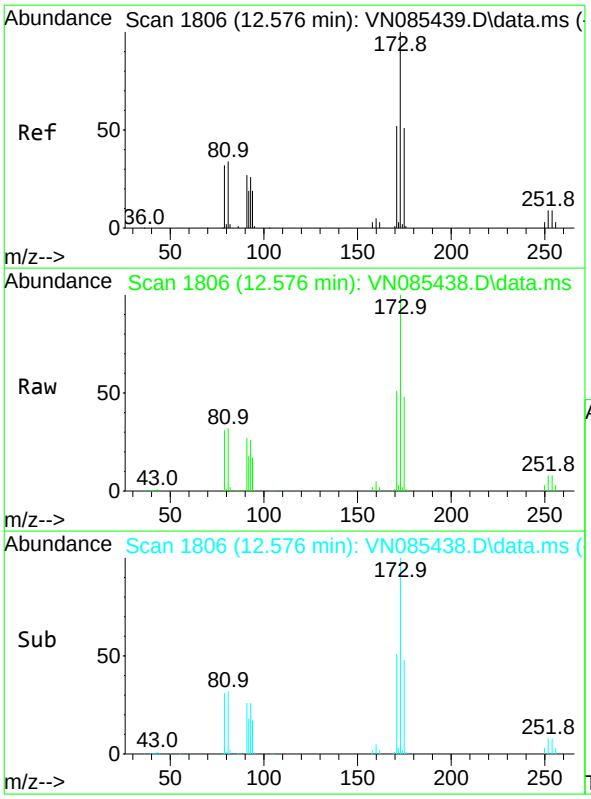


#70
Styrene
Concen: 121.919 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion:104 Resp: 760136

Ion	Ratio	Lower	Upper
104	100		
78	52.8	42.5	63.7
103	55.3	43.8	65.8

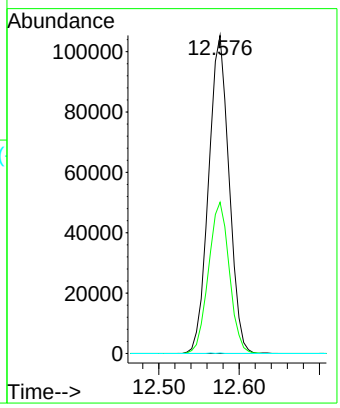




#71
Bromoform
Concen: 108.227 ug/l
RT: 12.576 min Scan# 18
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion:173 Resp: 186124

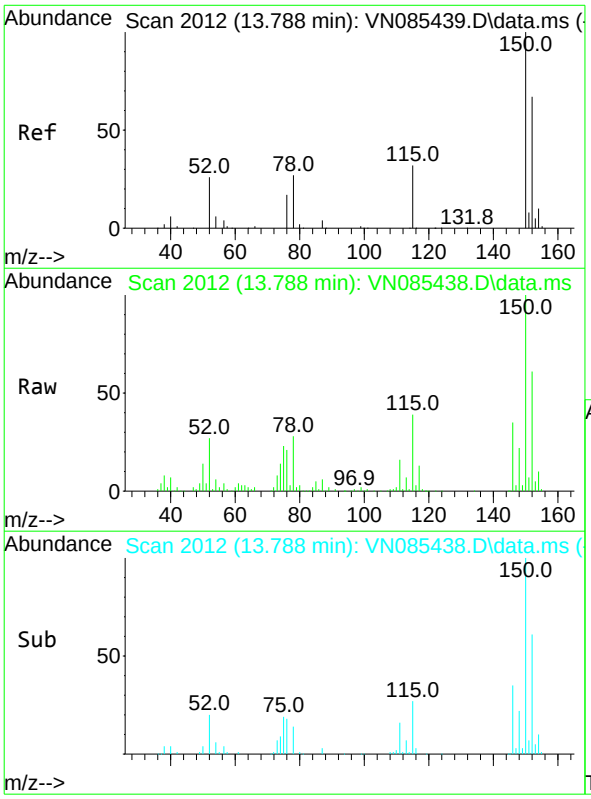
Ion	Ratio	Lower	Upper
173	100		
175	48.4	24.4	73.2
254	0.1	0.0	0.0#



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

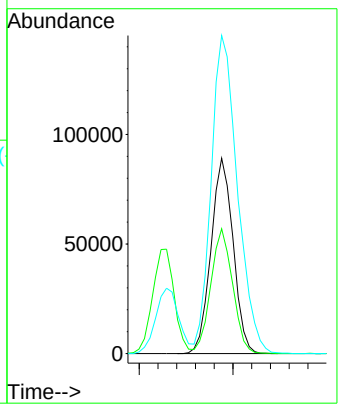
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

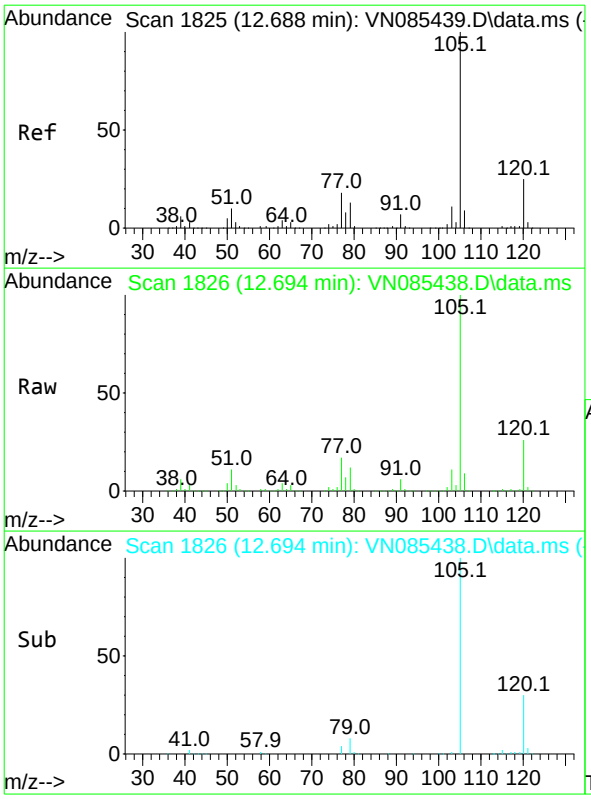


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion:152 Resp: 146196

Ion	Ratio	Lower	Upper
152	100		
115	62.7	31.1	93.3
150	193.1	0.0	343.6

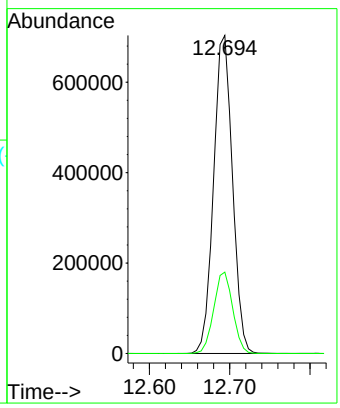




#73
Isopropylbenzene
Concen: 116.221 ug/l
RT: 12.694 min Scan# 18
Delta R.T. 0.006 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion:105 Resp: 1146752

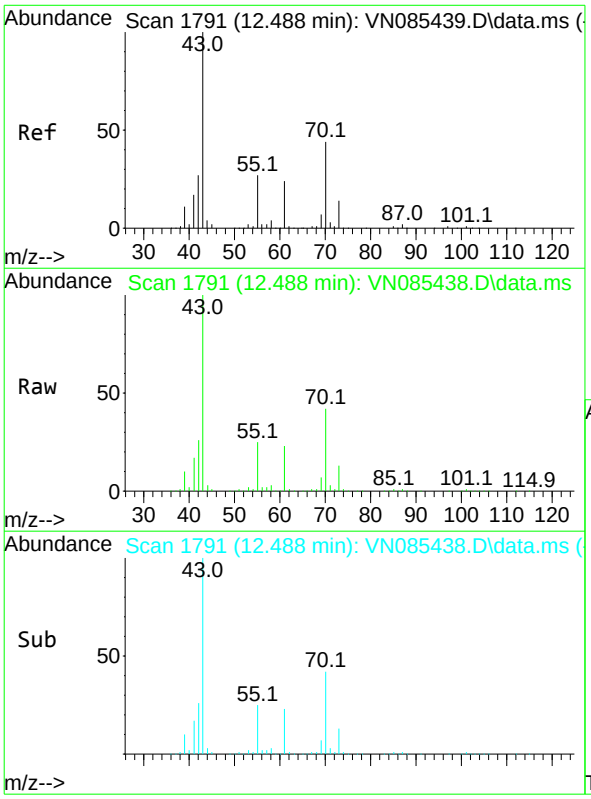
Ion	Ratio	Lower	Upper
105	100		
120	25.7	12.8	38.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

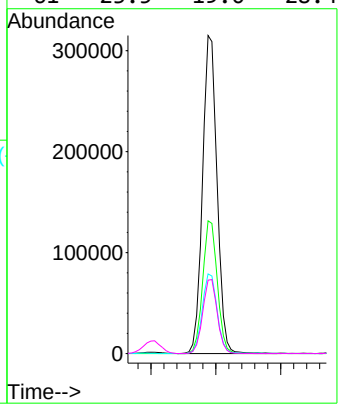
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

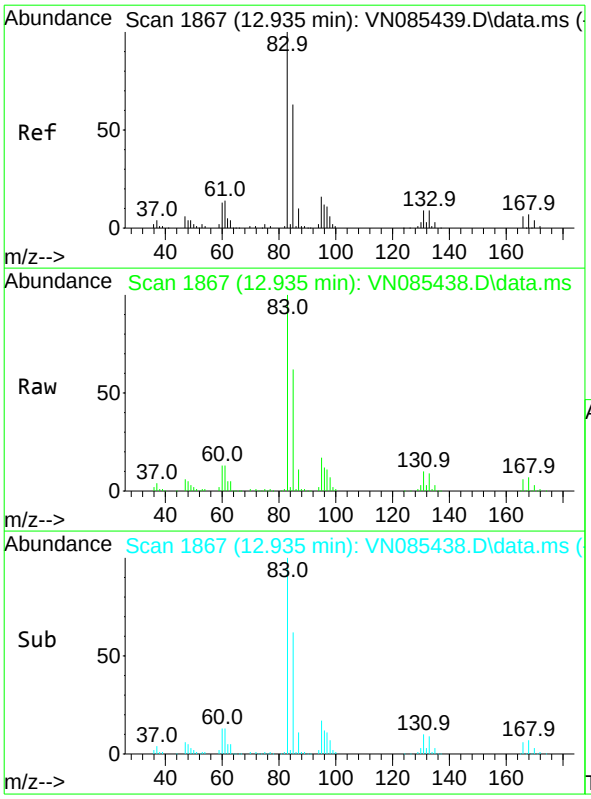


#74
N-amyl acetate
Concen: 110.308 ug/l
RT: 12.488 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 43 Resp: 489217

Ion	Ratio	Lower	Upper
43	100		
70	41.9	34.0	51.0
55	25.7	21.4	32.2
61	23.5	19.0	28.4

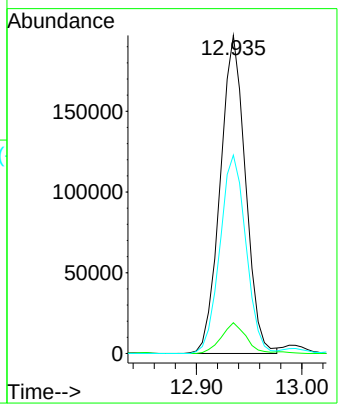




#75
1,1,2,2-Tetrachloroethane
Concen: 94.039 ug/l
RT: 12.935 min Scan# 18
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 83 Resp: 327767

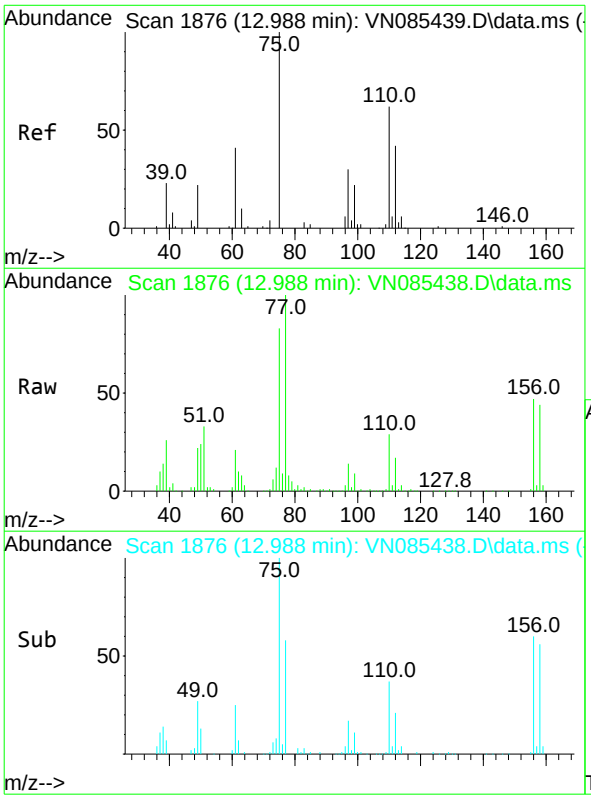
Ion	Ratio	Lower	Upper
83	100		
131	9.8	4.8	14.4
85	64.1	32.2	96.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

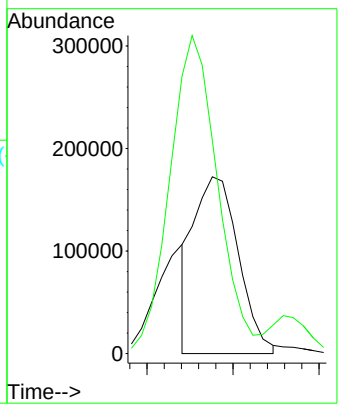
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

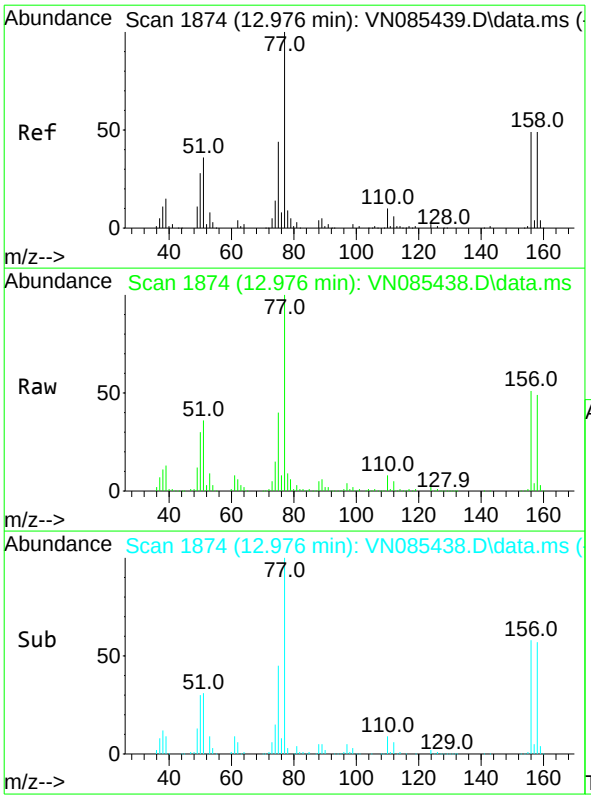


#76
1,2,3-Trichloropropane
Concen: 104.530 ug/l m
RT: 12.988 min Scan# 1876
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 75 Resp: 310115

Ion	Ratio	Lower	Upper
75	100		
77	192.6	109.7	329.2

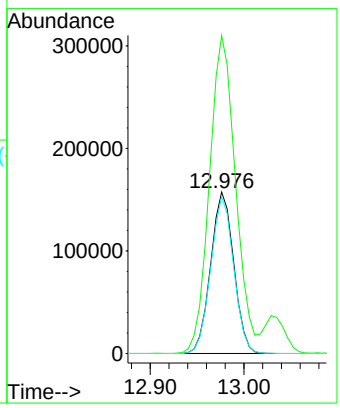




#77
Bromobenzene
Concen: 104.200 ug/l
RT: 12.976 min Scan# 18
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion:156 Resp: 268616

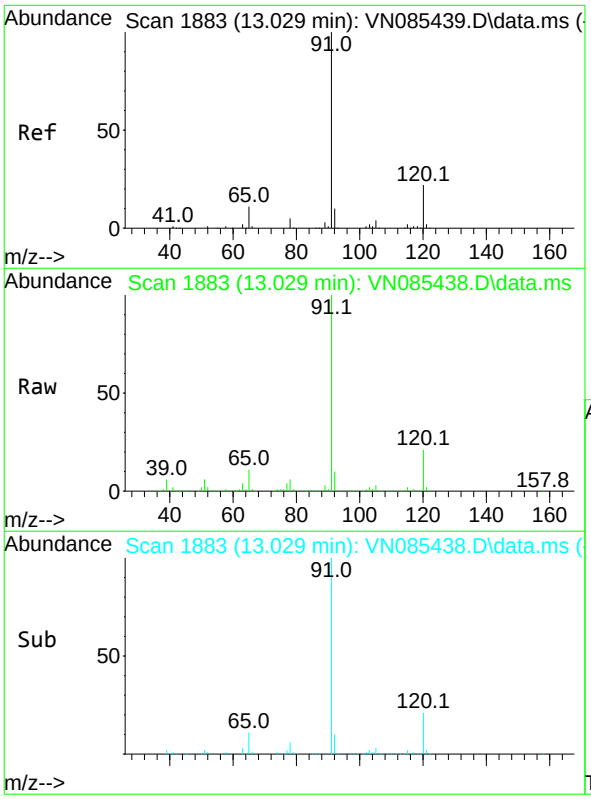
Ion	Ratio	Lower	Upper
156	100		
77	222.4	114.1	342.4
158	96.3	48.9	146.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

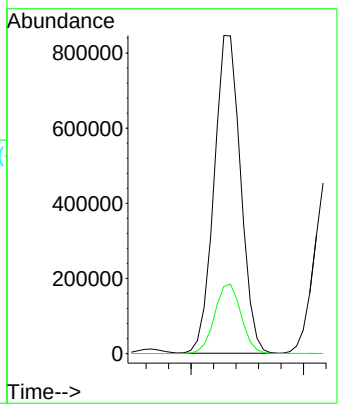
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

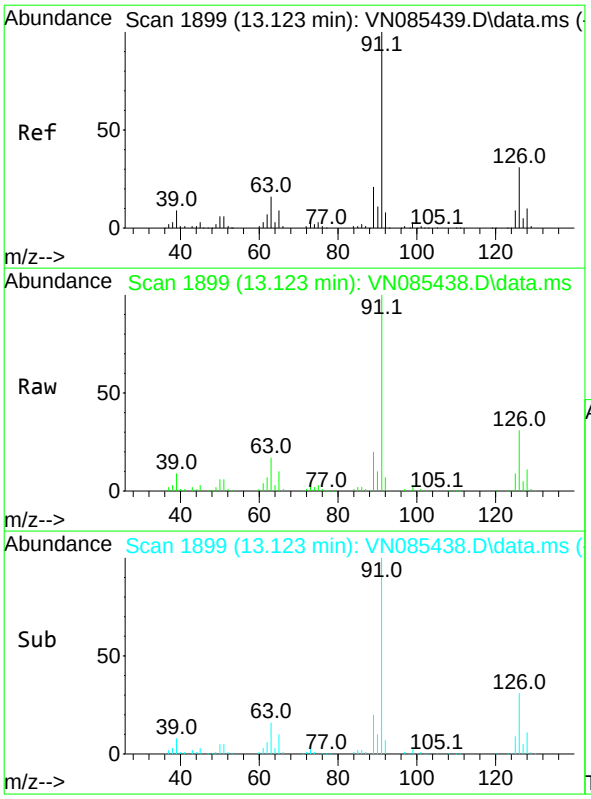


#78
n-propylbenzene
Concen: 118.600 ug/l
RT: 13.029 min Scan# 1883
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 91 Resp: 1385353

Ion	Ratio	Lower	Upper
91	100		
120	21.8	10.9	32.6

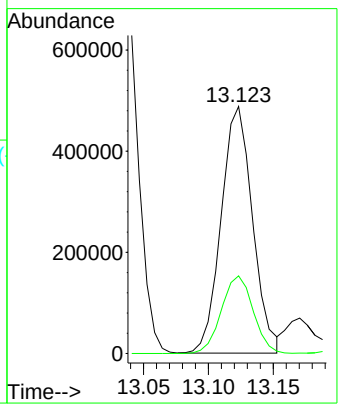




#79
2-Chlorotoluene
Concen: 108.767 ug/l
RT: 13.123 min Scan# 18
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 91 Resp: 822258

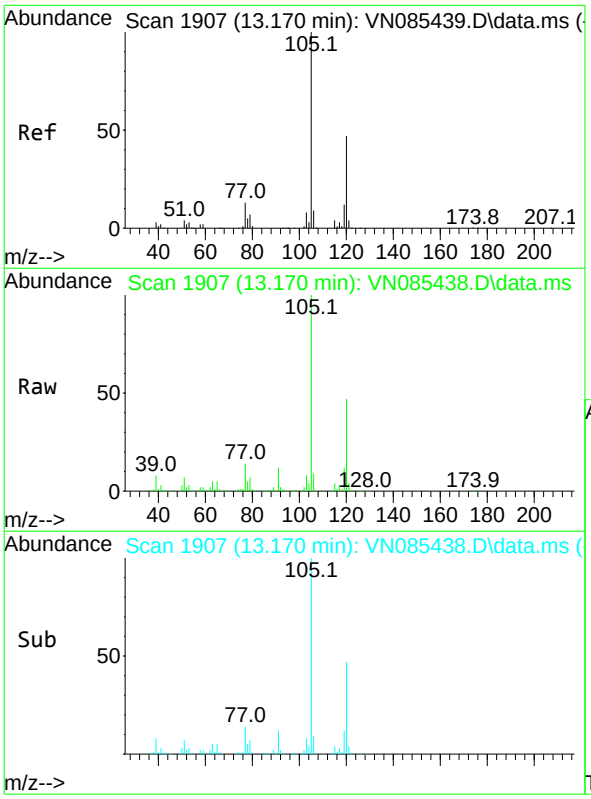
Ion	Ratio	Lower	Upper
91	100		
126	31.8	15.7	47.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

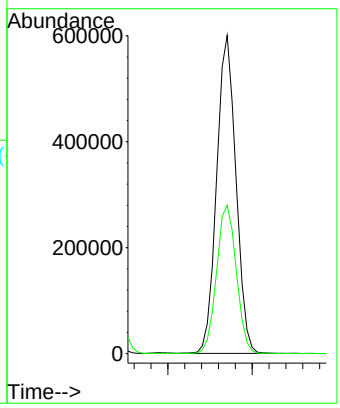
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

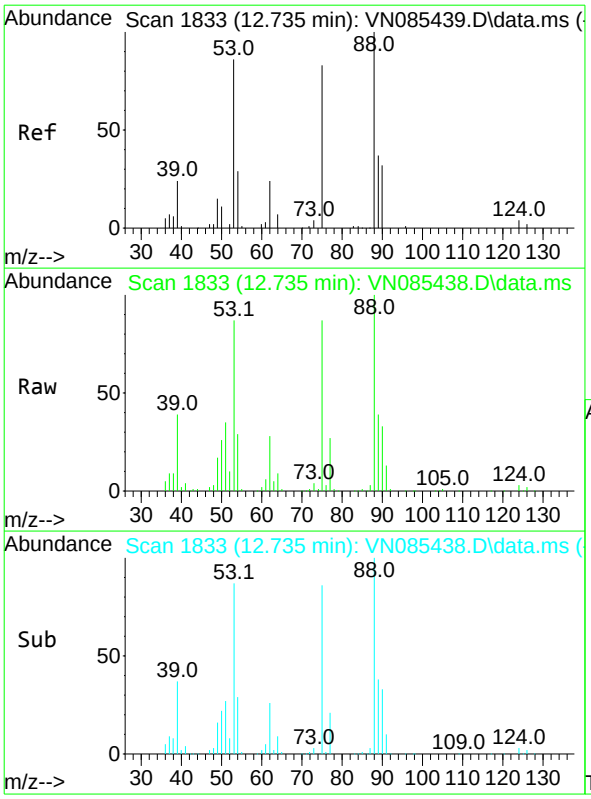


#80
1,3,5-Trimethylbenzene
Concen: 116.938 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion:105 Resp: 953066

Ion	Ratio	Lower	Upper
105	100		
120	47.8	23.9	71.7





#81
trans-1,4-Dichloro-2-butene
Concen: 111.544 ug/l
RT: 12.735 min Scan# 18
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

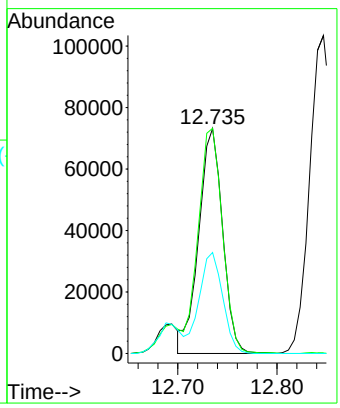
Tgt Ion: 75 Resp: 122508

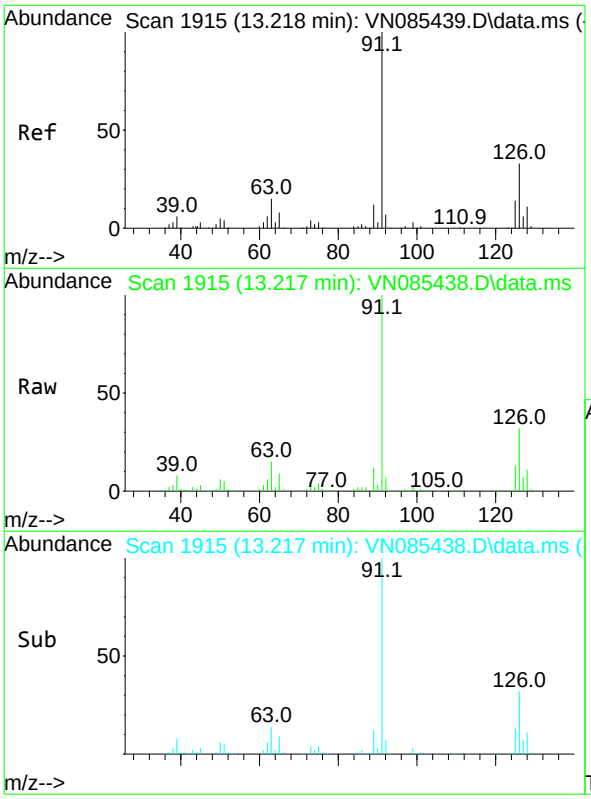
Ion	Ratio	Lower	Upper
75	100		
53	100.9	95.6	143.4
89	44.4	37.0	55.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

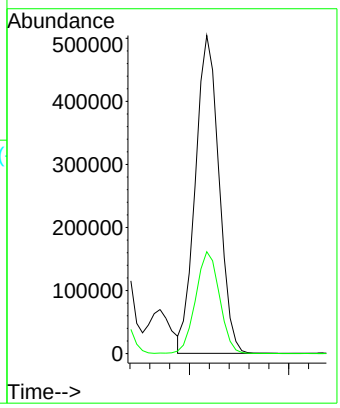


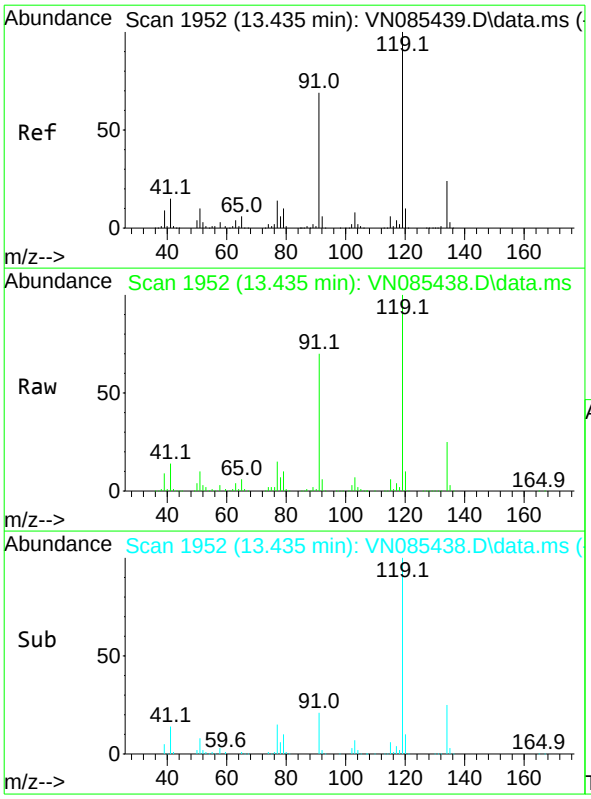


#82
4-Chlorotoluene
Concen: 110.574 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 91 Resp: 832317

Ion	Ratio	Lower	Upper
91	100		
126	32.5	15.9	47.7

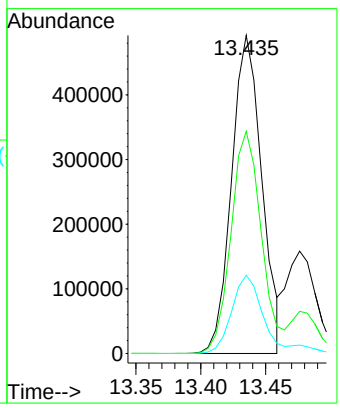




#83
tert-Butylbenzene
Concen: 116.457 ug/l
RT: 13.435 min Scan# 19
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion:119 Resp: 797069

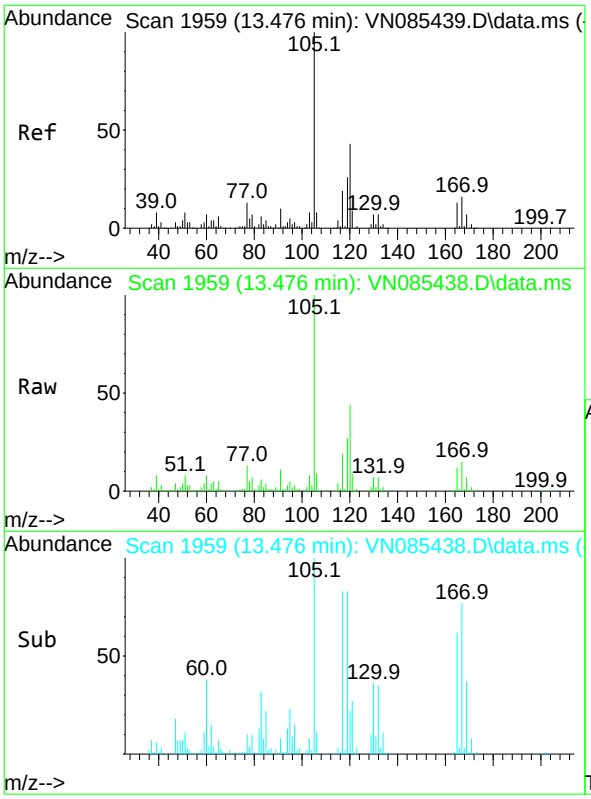
Ion	Ratio	Lower	Upper
119	100		
91	70.7	35.1	105.3
134	26.6	12.0	36.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

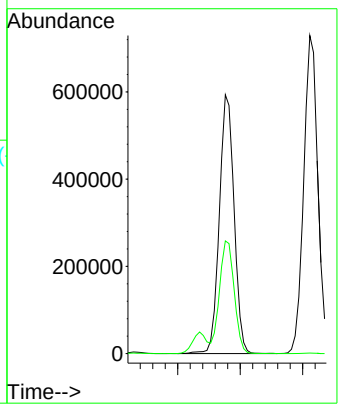
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

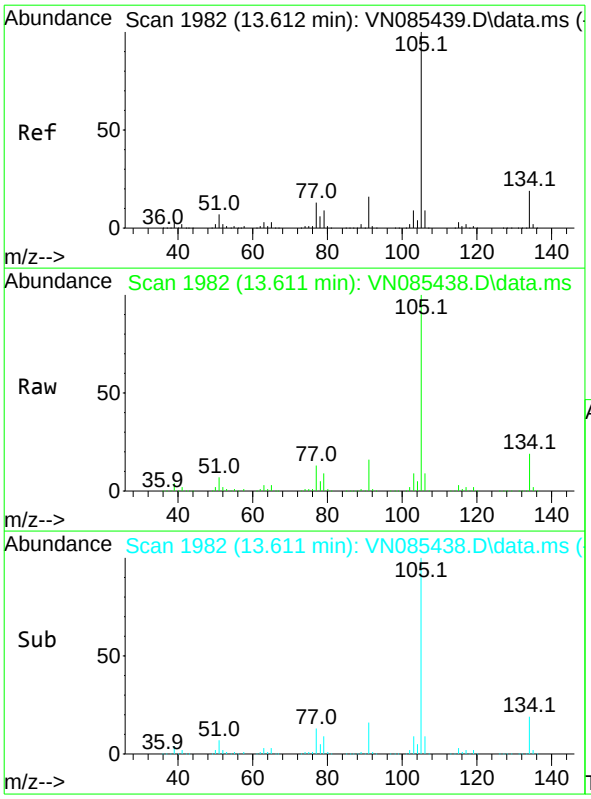


#84
1,2,4-Trimethylbenzene
Concen: 119.625 ug/l
RT: 13.476 min Scan# 1959
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion:105 Resp: 971729

Ion	Ratio	Lower	Upper
105	100		
120	43.4	21.6	65.0

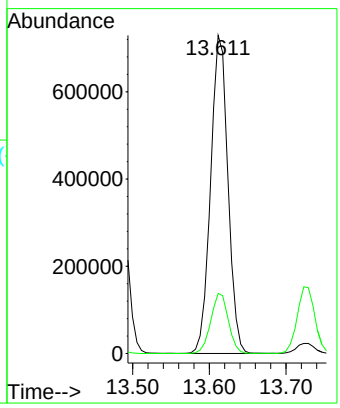




#85
sec-Butylbenzene
Concen: 120.587 ug/l
RT: 13.611 min Scan# 19
Delta R.T. -0.001 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion:105 Resp: 1143885

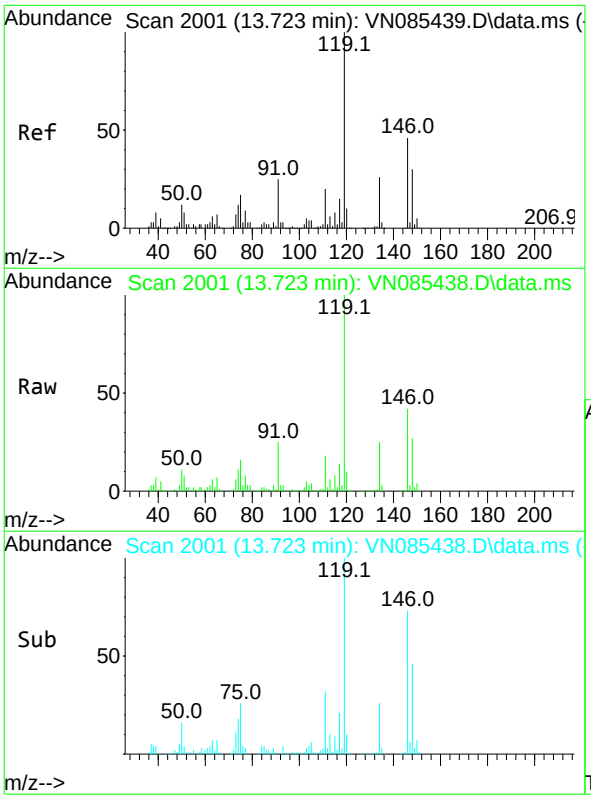
Ion	Ratio	Lower	Upper
105	100		
134	19.2	9.7	28.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

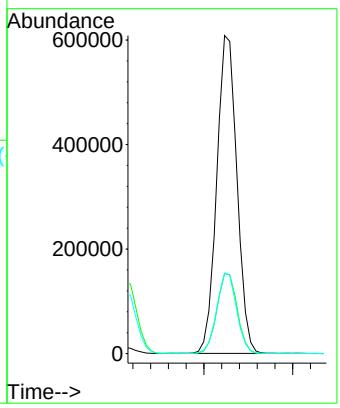
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

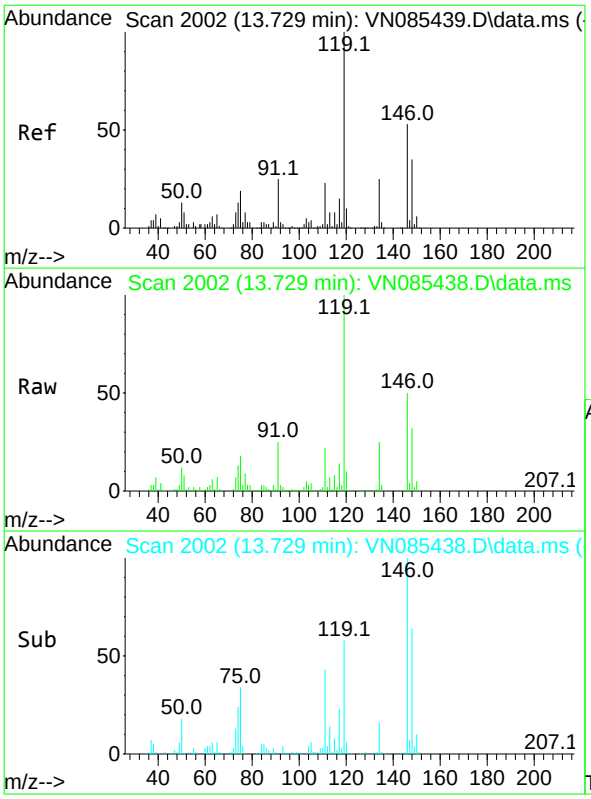


#86
p-Isopropyltoluene
Concen: 100.111 ug/l
RT: 13.723 min Scan# 2001
Delta R.T. 0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion:119 Resp: 960747

Ion	Ratio	Lower	Upper
119	100		
134	25.3	12.7	38.0
91	25.0	12.7	38.1

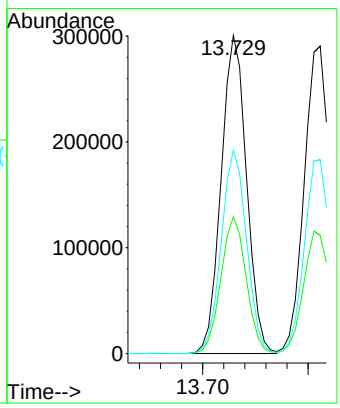




#87
1,3-Dichlorobenzene
Concen: 105.943 ug/l
RT: 13.729 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion:146 Resp: 502960

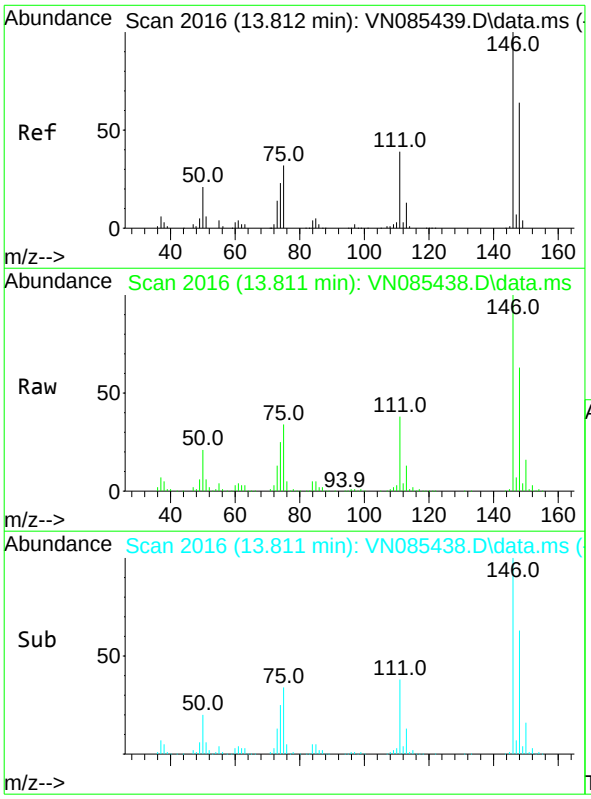
Ion	Ratio	Lower	Upper
146	100		
111	42.8	21.4	64.3
148	63.6	32.3	96.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

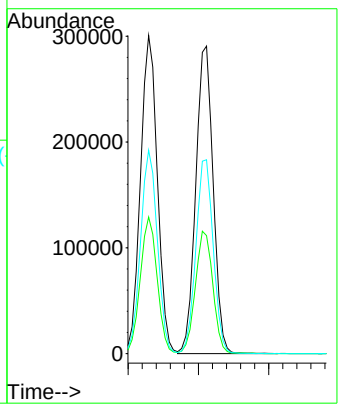
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

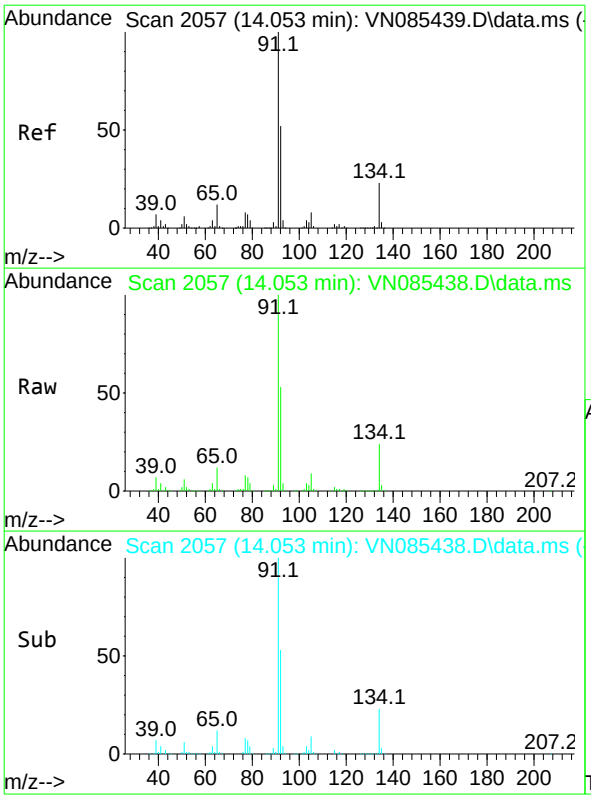


#88
1,4-Dichlorobenzene
Concen: 101.341 ug/l
RT: 13.811 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion:146 Resp: 498709

Ion	Ratio	Lower	Upper
146	100		
111	40.1	21.3	63.7
148	63.1	32.4	97.0

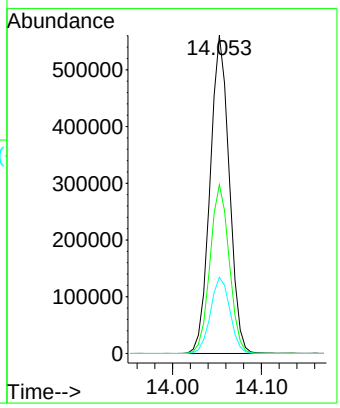




#89
n-Butylbenzene
Concen: 123.781 ug/l
RT: 14.053 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 91 Resp: 842368

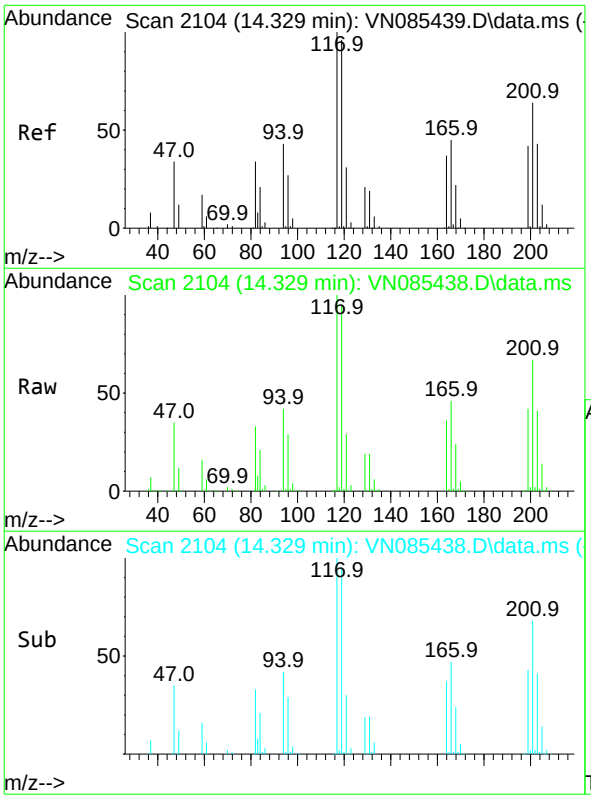
Ion	Ratio	Lower	Upper
91	100		
92	52.8	25.8	77.3
134	24.3	11.7	35.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

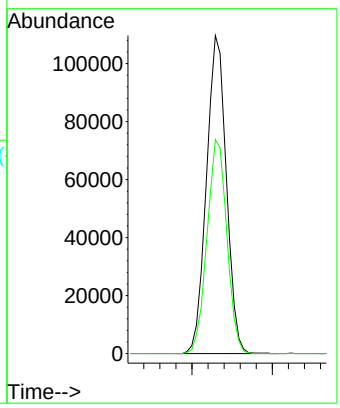
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

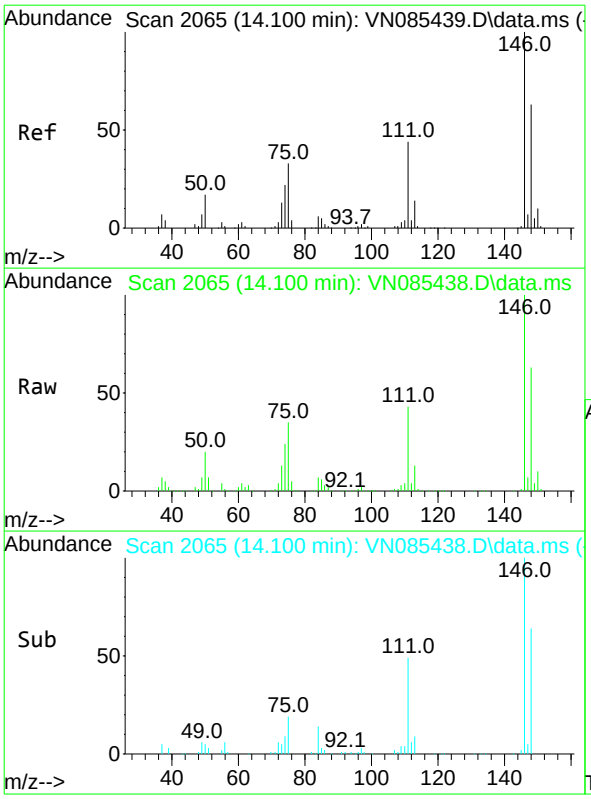


#90
Hexachloroethane
Concen: 104.405 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion:117 Resp: 188541

Ion	Ratio	Lower	Upper
117	100		
201	67.2	33.7	101.0

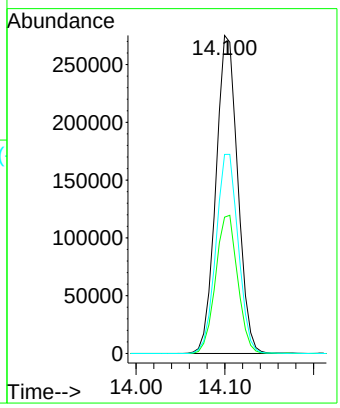




#91
1,2-Dichlorobenzene
Concen: 99.445 ug/l
RT: 14.100 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion:146 Resp: 470919

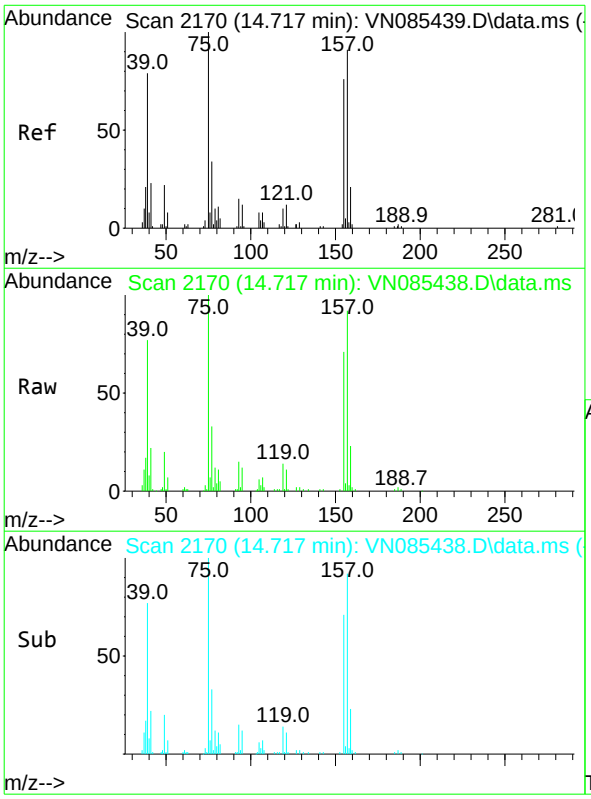
Ion	Ratio	Lower	Upper
146	100		
111	43.9	21.7	65.1
148	64.0	31.4	94.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

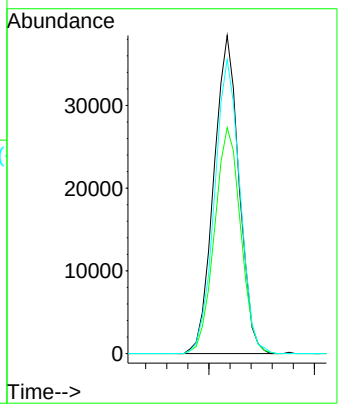
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

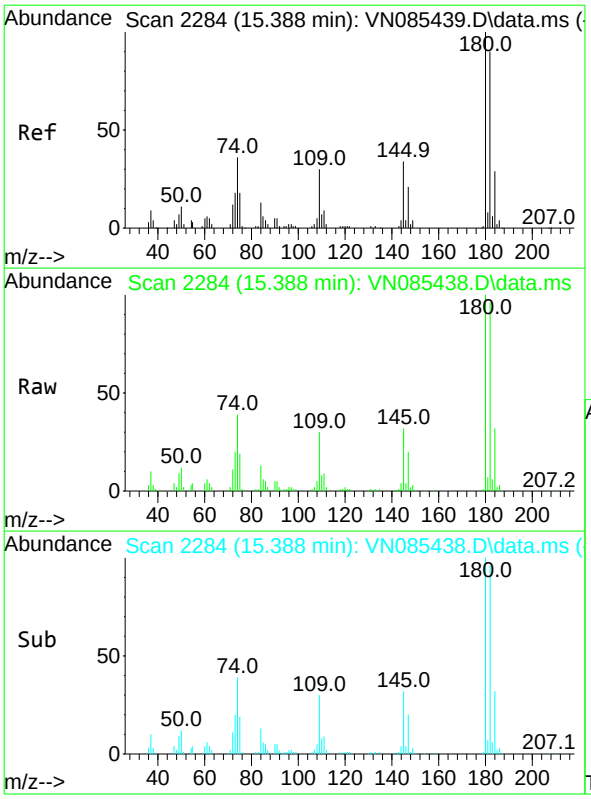


#92
1,2-Dibromo-3-Chloropropane
Concen: 100.313 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 75 Resp: 63846

Ion	Ratio	Lower	Upper
75	100		
155	73.5	36.4	109.2
157	93.0	45.4	136.1

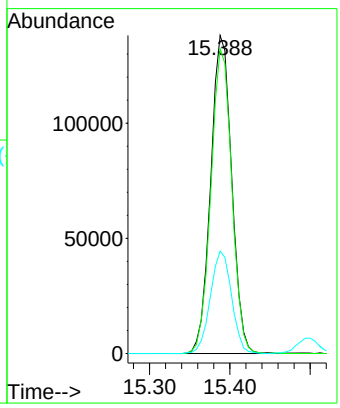




#93
1,2,4-Trichlorobenzene
Concen: 113.946 ug/l
RT: 15.388 min Scan# 22
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion:180 Resp: 250787

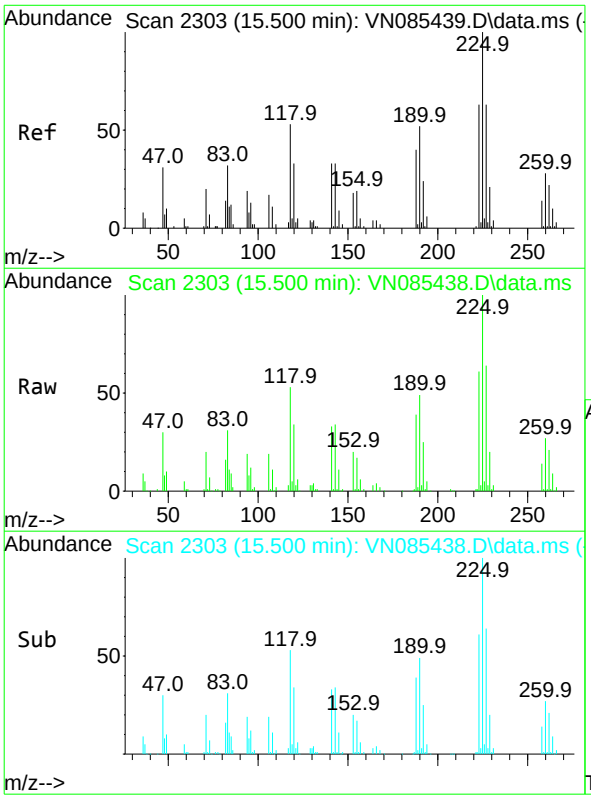
Ion	Ratio	Lower	Upper
180	100		
182	94.9	46.8	140.3
145	32.6	16.0	48.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

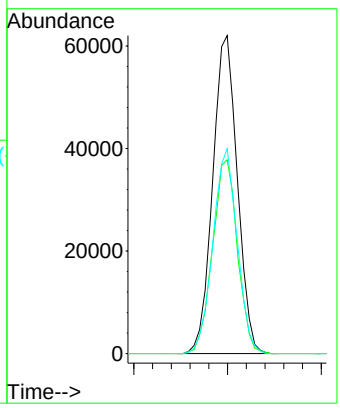
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

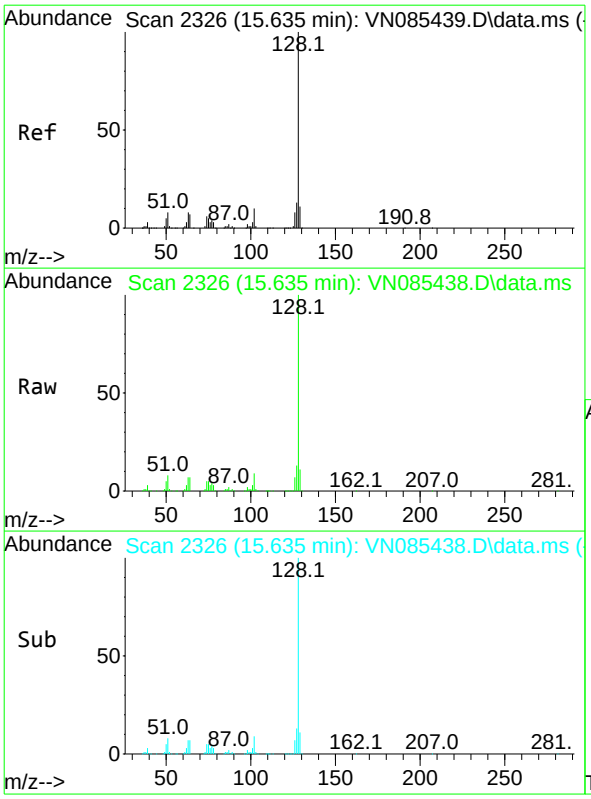


#94
Hexachlorobutadiene
Concen: 96.619 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion:225 Resp: 112899

Ion	Ratio	Lower	Upper
225	100		
223	61.8	30.7	92.1
227	63.6	30.9	92.5

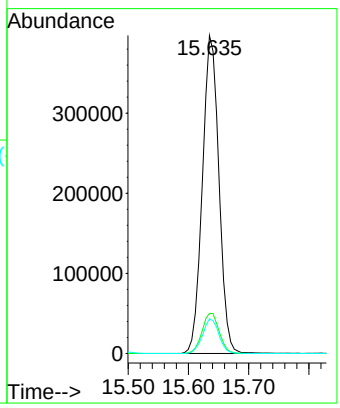




#95
Naphthalene
Concen: 115.234 ug/l
RT: 15.635 min Scan# 23
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion:128 Resp: 756816

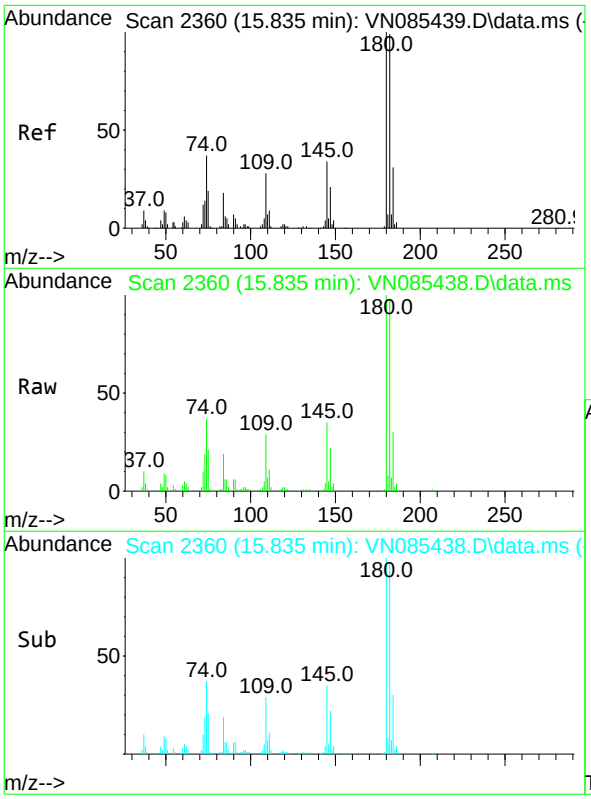
Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.6	16.0
129	10.8	8.8	13.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

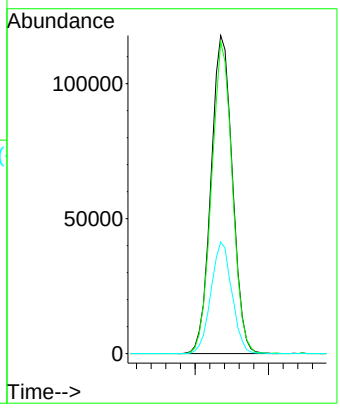
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#96
1,2,3-Trichlorobenzene
Concen: 107.256 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion:180 Resp: 238860

Ion	Ratio	Lower	Upper
180	100		
182	95.0	47.4	142.2
145	34.3	16.9	50.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085439.D
Acq On : 14 Jan 2025 15:19
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 15 01:42:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.218	168	199403	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	339872	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	297366	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	146624	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	165768	51.500	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 103.000%			
35) Dibromofluoromethane	8.159	113	121554	51.552	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.100%			
50) Toluene-d8	10.565	98	430698	51.411	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.820%			
62) 4-Bromofluorobenzene	12.847	95	152568	53.239	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 106.480%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	125504	46.486	ug/l	100
3) Chloromethane	2.359	50	135631	46.398	ug/l	100
4) Vinyl Chloride	2.512	62	136831	46.569	ug/l	100
5) Bromomethane	2.953	94	83199	46.877	ug/l	100
6) Chloroethane	3.118	64	84517	45.371	ug/l	100
7) Trichlorofluoromethane	3.501	101	198726	46.613	ug/l	100
8) Diethyl Ether	3.953	74	71764	48.726	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.371	101	108081	45.010	ug/l	100
10) Methyl Iodide	4.589	142	143383	52.142	ug/l	100
11) Tert butyl alcohol	5.512	59	92841	251.894	ug/l	100
12) 1,1-Dichloroethene	4.342	96	106247	49.647	ug/l	100
13) Acrolein	4.171	56	139234	276.734	ug/l	100
14) Allyl chloride	5.018	41	168654	48.567	ug/l	100
15) Acrylonitrile	5.712	53	296781	253.507	ug/l	100
16) Acetone	4.418	43	251271	241.603	ug/l	100
17) Carbon Disulfide	4.706	76	294604	44.710	ug/l	100
18) Methyl Acetate	5.018	43	157485	49.798	ug/l	100
19) Methyl tert-butyl Ether	5.789	73	373561	53.758	ug/l	100
20) Methylene Chloride	5.271	84	125508	48.748	ug/l	100
21) trans-1,2-Dichloroethene	5.783	96	110684	48.395	ug/l	100
22) Diisopropyl ether	6.665	45	406253	52.707	ug/l	100
23) Vinyl Acetate	6.594	43	1491031	275.471	ug/l	100
24) 1,1-Dichloroethane	6.565	63	233336	49.648	ug/l	100
25) 2-Butanone	7.477	43	388457	253.815	ug/l	100
26) 2,2-Dichloropropane	7.483	77	186591	49.106	ug/l	100
27) cis-1,2-Dichloroethene	7.483	96	136229	50.571	ug/l	100
28) Bromochloromethane	7.806	49	108148	49.461	ug/l	100
29) Tetrahydrofuran	7.830	42	259683	267.624	ug/l	100
30) Chloroform	7.959	83	234271	48.229	ug/l	100
31) Cyclohexane	8.253	56	175588	42.984	ug/l	100
32) 1,1,1-Trichloroethane	8.165	97	202590	47.547	ug/l	100
36) 1,1-Dichloropropene	8.365	75	157031	47.453	ug/l	100
37) Ethyl Acetate	7.553	43	165866	49.658	ug/l	100
38) Carbon Tetrachloride	8.359	117	180199	47.564	ug/l	100
39) Methylcyclohexane	9.600	83	157234	50.562	ug/l	100
40) Benzene	8.600	78	492606	49.542	ug/l	100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085439.D
Acq On : 14 Jan 2025 15:19
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 15 01:42:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	7.771	41	91711	52.775 ug/l	100
42) 1,2-Dichloroethane	8.665	62	186065	49.685 ug/l	100
43) Isopropyl Acetate	8.683	43	276228	51.611 ug/l	100
44) Trichloroethene	9.347	130	109953	47.506 ug/l	100
45) 1,2-Dichloropropane	9.618	63	126084	49.644 ug/l	100
46) Dibromomethane	9.706	93	90670	49.476 ug/l	100
47) Bromodichloromethane	9.882	83	189915	50.867 ug/l	100
48) Methyl methacrylate	9.677	41	133399	55.385 ug/l	100
49) 1,4-Dioxane	9.688	88	43048	1061.334 ug/l	100
51) 4-Methyl-2-Pentanone	10.441	43	836707	269.403 ug/l	100
52) Toluene	10.624	92	295792	51.341 ug/l	100
53) t-1,3-Dichloropropene	10.835	75	187439	53.125 ug/l	100
54) cis-1,3-Dichloropropene	10.306	75	199771	53.006 ug/l	100
55) 1,1,2-Trichloroethane	11.012	97	115462	50.641 ug/l	100
56) Ethyl methacrylate	10.871	69	184775	48.182 ug/l	100
57) 1,3-Dichloropropane	11.159	76	204590	51.606 ug/l	100
58) 2-Chloroethyl Vinyl ether	10.159	63	409594	283.088 ug/l	100
59) 2-Hexanone	11.188	43	606740	277.643 ug/l	100
60) Dibromochloromethane	11.353	129	140704	51.116 ug/l	100
61) 1,2-Dibromoethane	11.465	107	113541	50.028 ug/l	100
64) Tetrachloroethene	11.100	164	95879	47.295 ug/l	100
65) Chlorobenzene	11.888	112	319992	49.121 ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.959	131	116488	48.722 ug/l	100
67) Ethyl Benzene	11.959	91	555322	52.339 ug/l	100
68) m/p-Xylenes	12.065	106	420702	107.286 ug/l	100
69) o-Xylene	12.394	106	202597	54.062 ug/l	100
70) Styrene	12.406	104	348720	56.227 ug/l	100
71) Bromoform	12.576	173	92366	53.993 ug/l #	100
73) Isopropylbenzene	12.688	105	505619	51.094 ug/l	100
74) N-amyl acetate	12.488	43	237870	53.478 ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.935	83	167856	48.019 ug/l	100
76) 1,2,3-Trichloropropane	12.988	75	130866m	43.982 ug/l	
77) Bromobenzene	12.976	156	125800	48.657 ug/l	100
78) n-propylbenzene	13.029	91	609022	51.986 ug/l	100
79) 2-Chlorotoluene	13.123	91	378981	49.985 ug/l	100
80) 1,3,5-Trimethylbenzene	13.170	105	431021	52.730 ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	57184	51.914 ug/l	100
82) 4-Chlorotoluene	13.218	91	379524	50.273 ug/l	100
83) tert-Butylbenzene	13.435	119	357563	52.090 ug/l	100
84) 1,2,4-Trimethylbenzene	13.476	105	442175	54.275 ug/l	100
85) sec-Butylbenzene	13.612	105	501561	52.719 ug/l	100
86) p-Isopropyltoluene	13.723	119	421052	49.240 ug/l	100
87) 1,3-Dichlorobenzene	13.729	146	229518	48.204 ug/l	100
88) 1,4-Dichlorobenzene	13.812	146	229084	46.416 ug/l	100
89) n-Butylbenzene	14.053	91	364111	53.348 ug/l	100
90) Hexachloroethane	14.329	117	84602	46.712 ug/l	100
91) 1,2-Dichlorobenzene	14.100	146	228024	48.012 ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	32536	50.971 ug/l	100
93) 1,2,4-Trichlorobenzene	15.388	180	114468	51.857 ug/l	100
94) Hexachlorobutadiene	15.500	225	53846	45.947 ug/l	100
95) Naphthalene	15.635	128	363882	55.243 ug/l	100
96) 1,2,3-Trichlorobenzene	15.835	180	115251	51.601 ug/l	100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085439.D
Acq On : 14 Jan 2025 15:19
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 15 01:42:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration

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

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

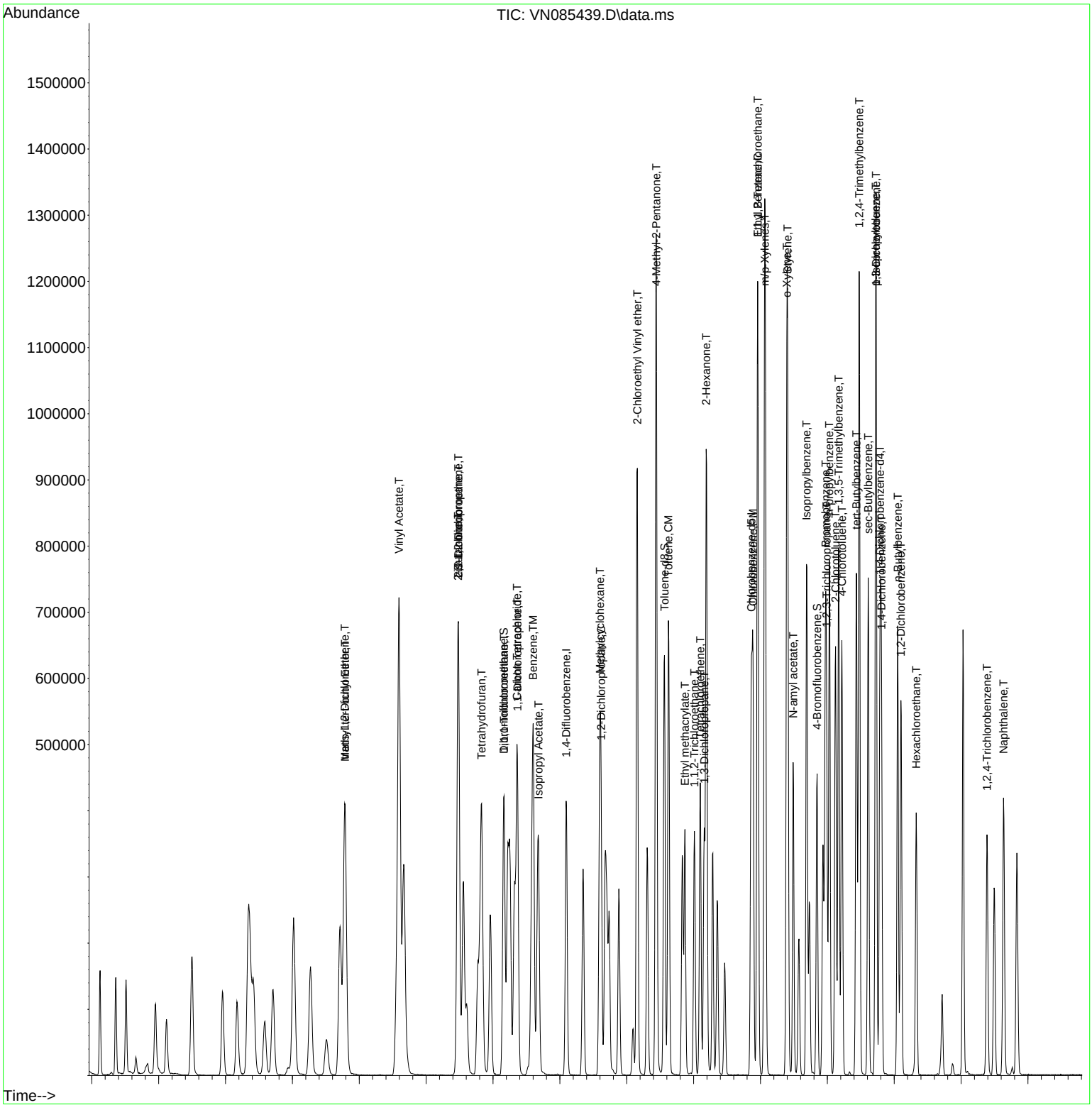
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085439.D
Acq On : 14 Jan 2025 15:19
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

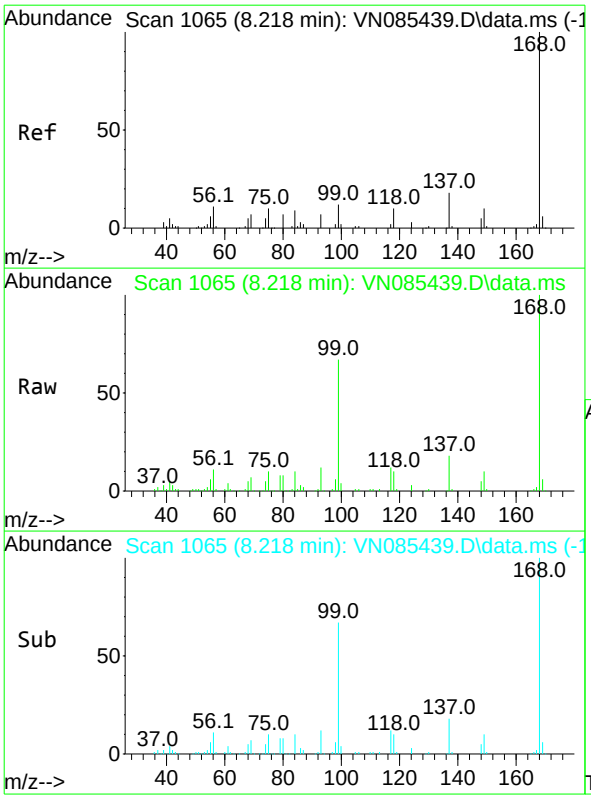
Quant Time: Jan 15 01:42:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

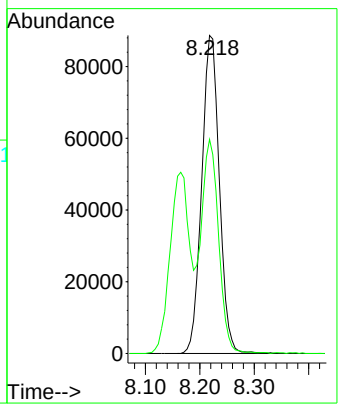




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion:168 Resp: 199403

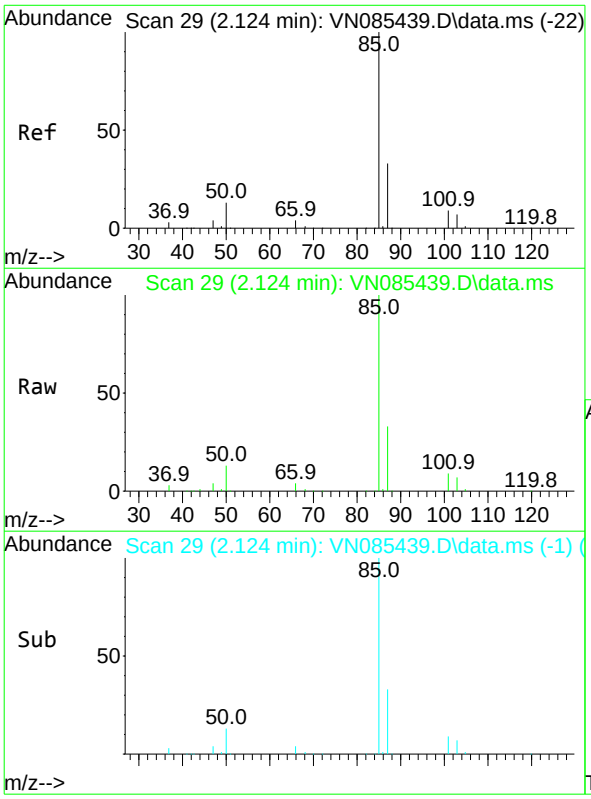
Ion	Ratio	Lower	Upper
168	100		
99	67.0	53.6	80.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

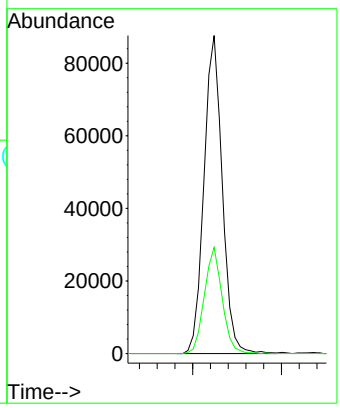
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

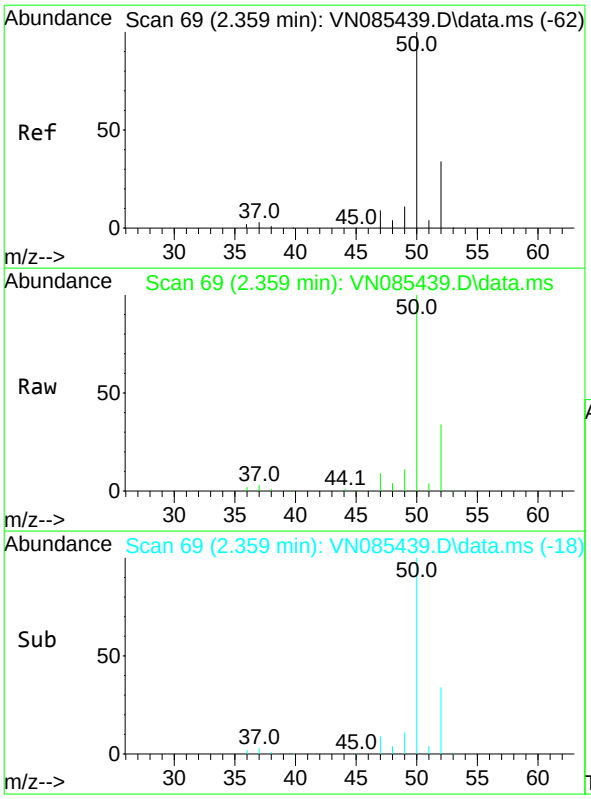


#2
Dichlorodifluoromethane
Concen: 46.486 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 85 Resp: 125504

Ion	Ratio	Lower	Upper
85	100		
87	33.4	16.7	50.1

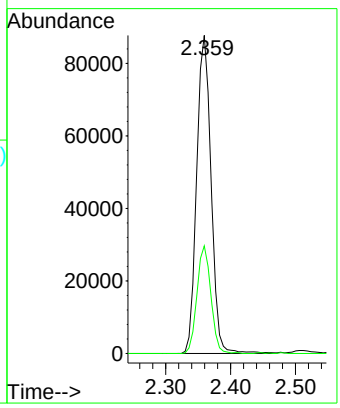




#3
Chloromethane
Concen: 46.398 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 50 Resp: 135631

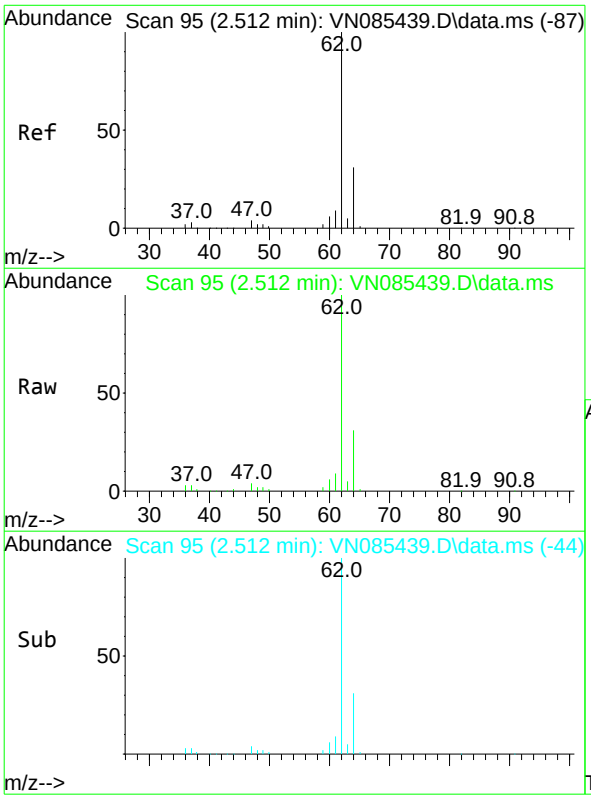
Ion	Ratio	Lower	Upper
50	100		
52	33.8	27.0	40.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

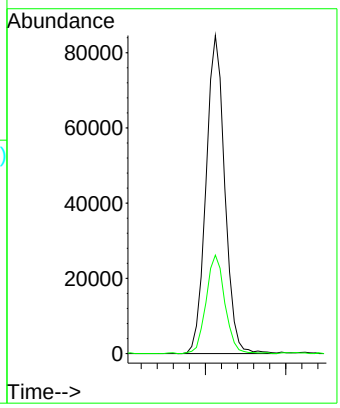
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

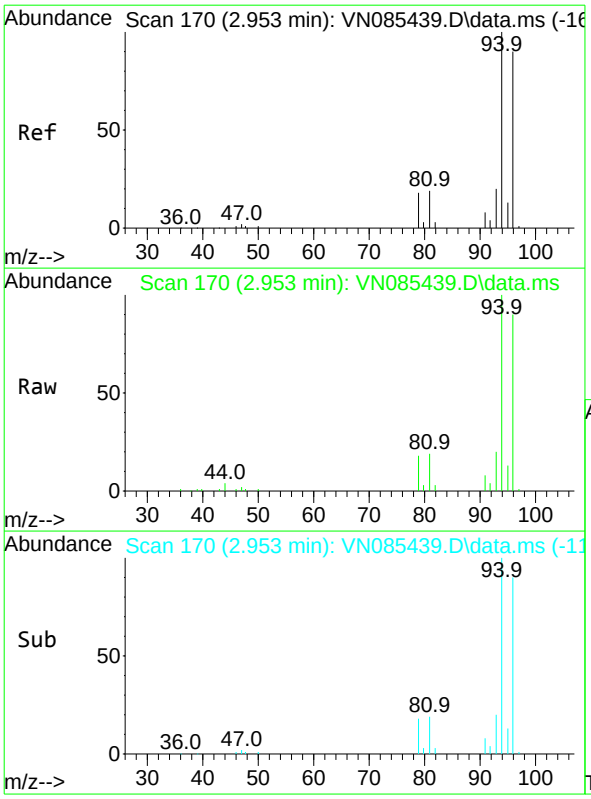


#4
Vinyl Chloride
Concen: 46.569 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 62 Resp: 136831

Ion	Ratio	Lower	Upper
62	100		
64	31.0	24.8	37.2

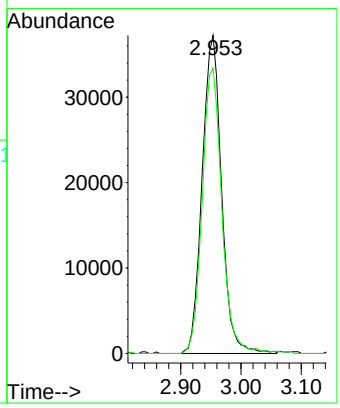




#5
Bromomethane
Concen: 46.877 ug/l
RT: 2.953 min Scan# 17
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 94 Resp: 83199

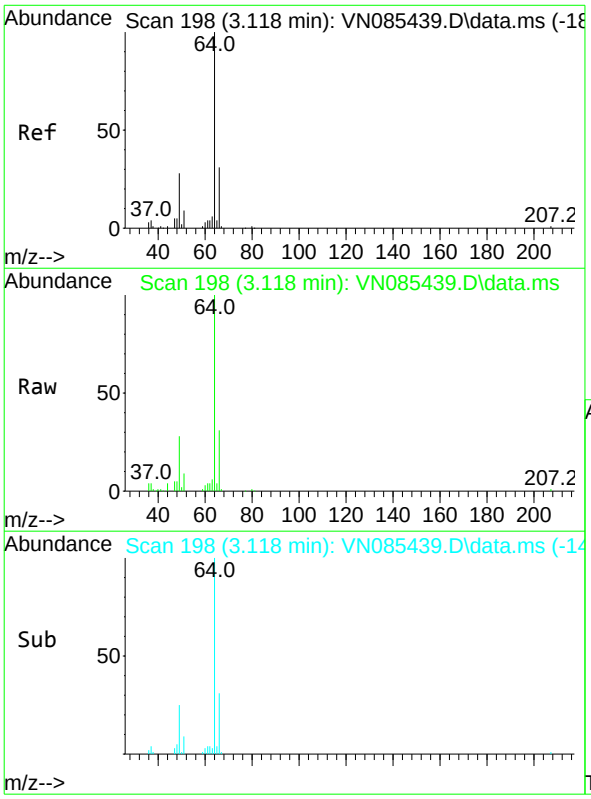
Ion	Ratio	Lower	Upper
94	100		
96	89.7	71.8	107.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

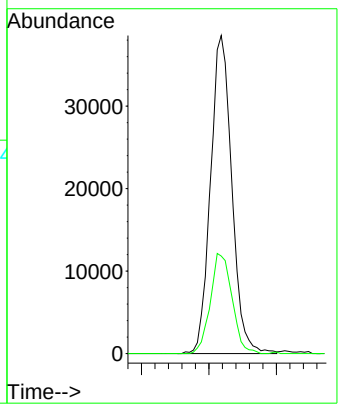
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

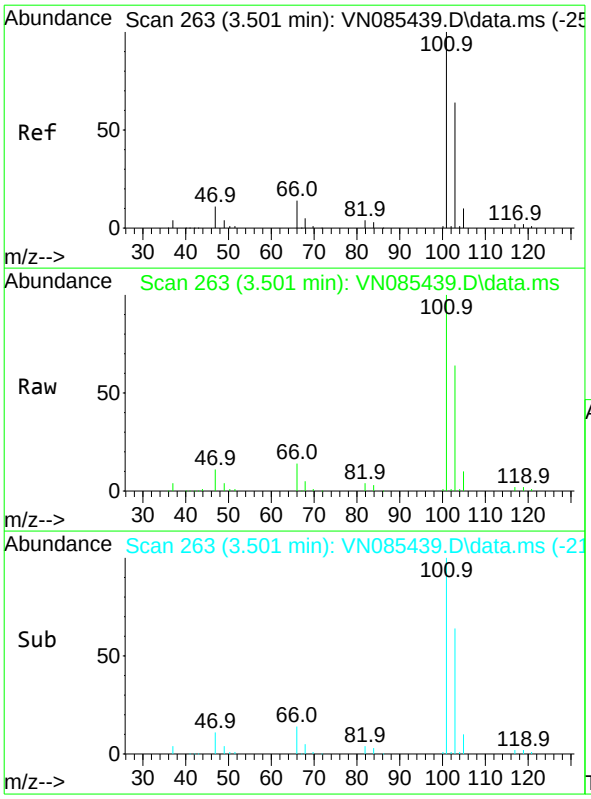


#6
Chloroethane
Concen: 45.371 ug/l
RT: 3.118 min Scan# 198
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 64 Resp: 84517

Ion	Ratio	Lower	Upper
64	100		
66	30.7	24.6	36.8

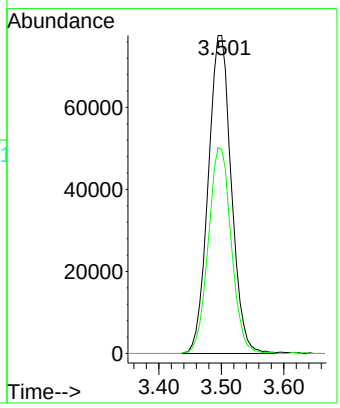




#7
Trichlorofluoromethane
Concen: 46.613 ug/l
RT: 3.501 min Scan# 26
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion:101 Resp: 198726

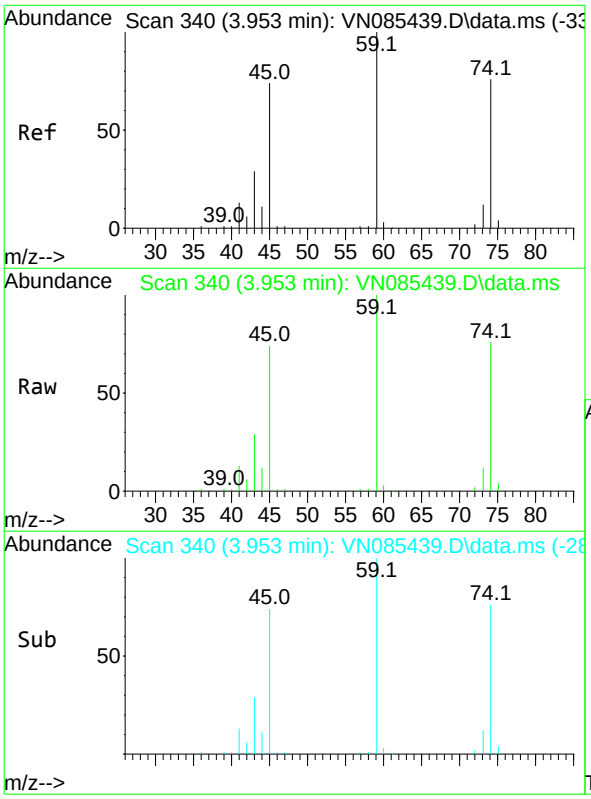
Ion	Ratio	Lower	Upper
101	100		
103	64.3	51.4	77.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

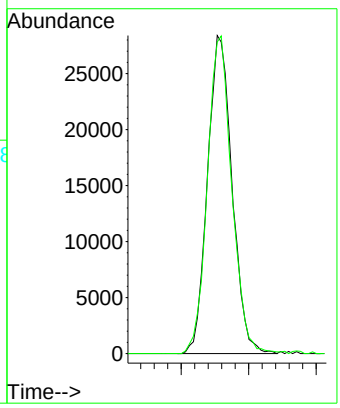
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

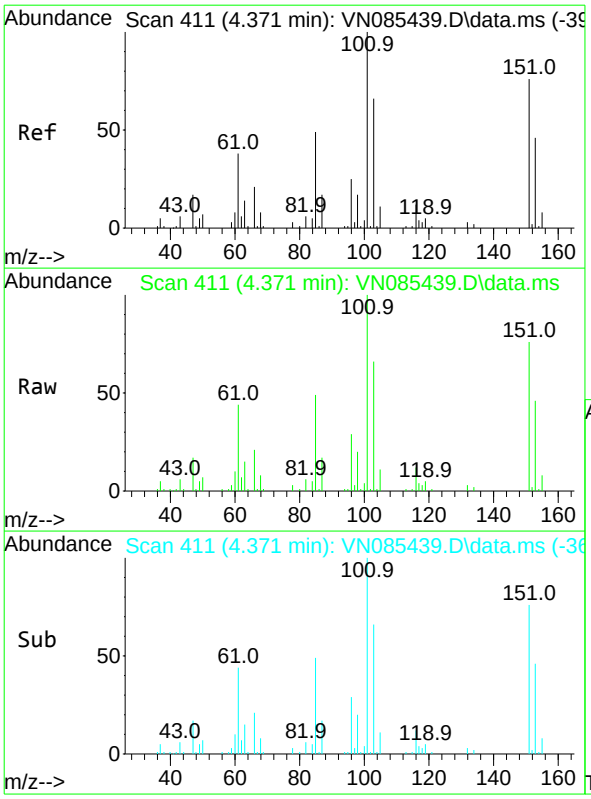


#8
Diethyl Ether
Concen: 48.726 ug/l
RT: 3.953 min Scan# 340
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 74 Resp: 71764

Ion	Ratio	Lower	Upper
74	100		
45	99.4	49.7	149.1





#9
1,1,2-Trichlorotrifluoroethane
Concen: 45.010 ug/l
RT: 4.371 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

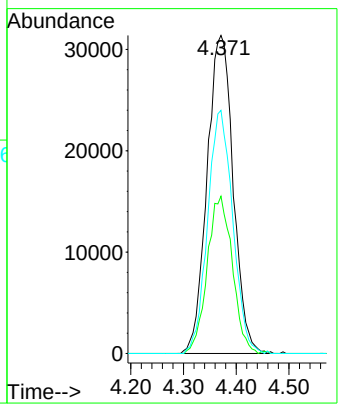
Tgt Ion:101 Resp: 108081

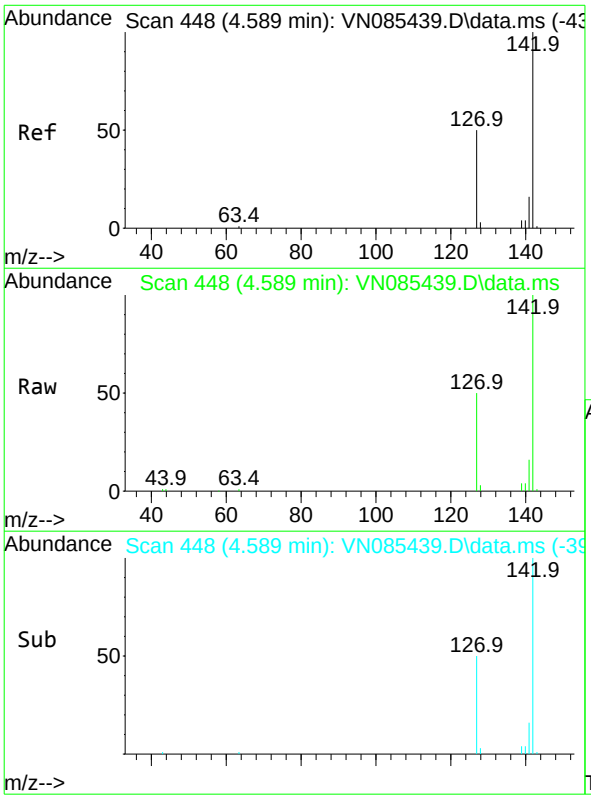
Ion	Ratio	Lower	Upper
101	100		
85	47.3	37.8	56.8
151	73.5	58.8	88.2

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

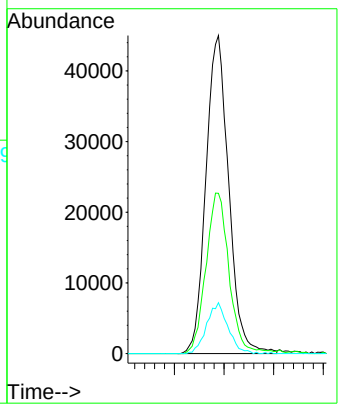


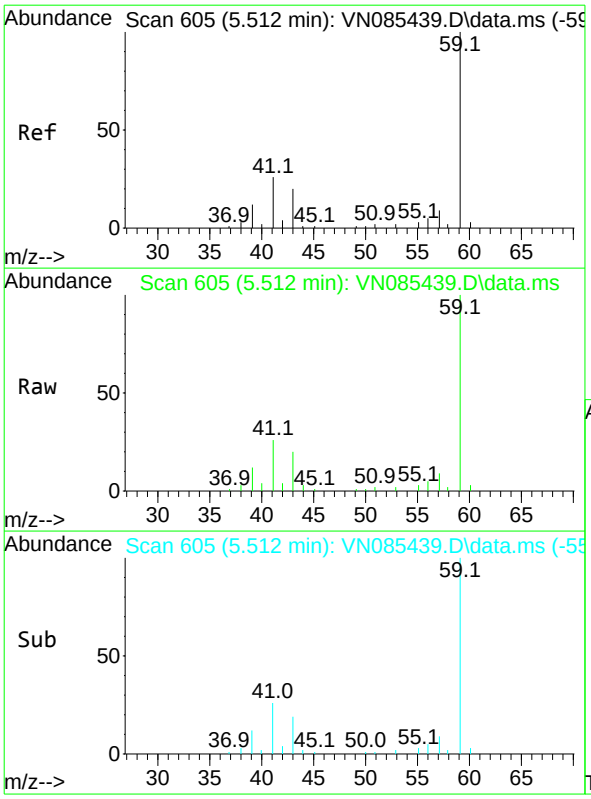


#10
Methyl Iodide
Concen: 52.142 ug/l
RT: 4.589 min Scan# 448
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion:142 Resp: 143383

Ion	Ratio	Lower	Upper
142	100		
127	50.4	40.3	60.5
141	16.0	12.8	19.2

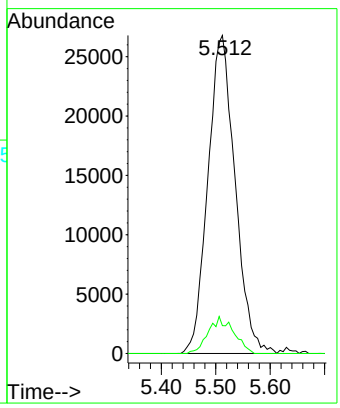




#11
Tert butyl alcohol
Concen: 251.894 ug/l
RT: 5.512 min Scan# 60
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 59 Resp: 92841

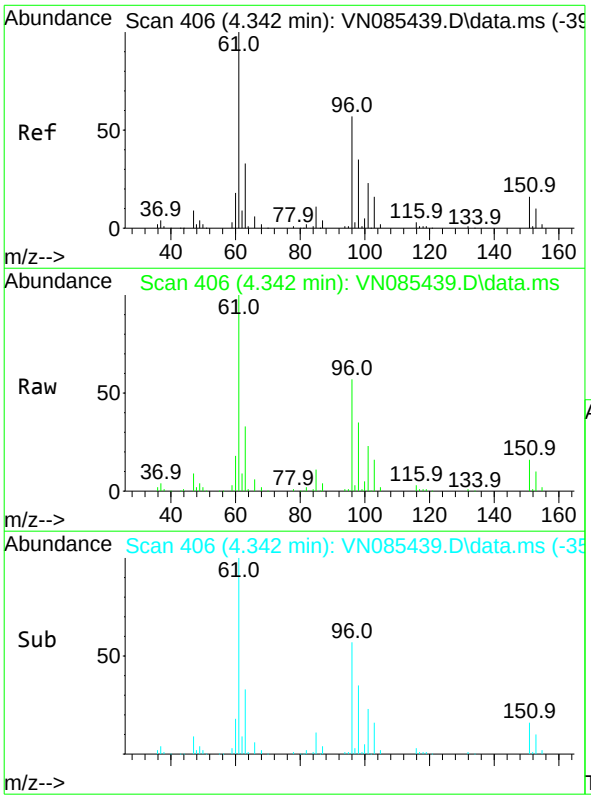
Ion	Ratio	Lower	Upper
59	100		
57	10.8	8.6	13.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

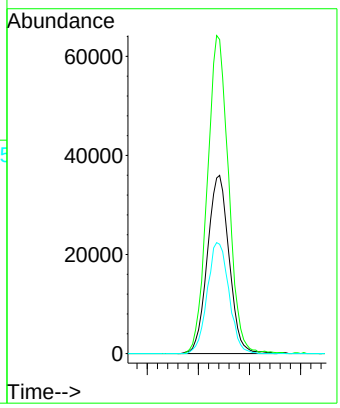
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

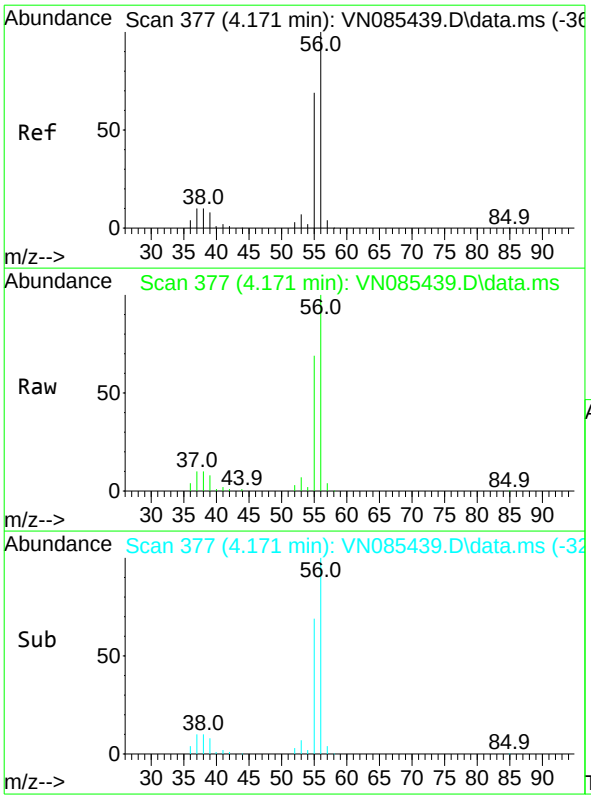


#12
1,1-Dichloroethene
Concen: 49.647 ug/l
RT: 4.342 min Scan# 406
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 96 Resp: 106247

Ion	Ratio	Lower	Upper
96	100		
61	176.2	141.0	211.4
98	61.3	49.0	73.6

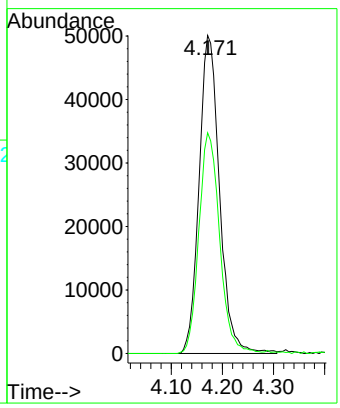




#13
Acrolein
Concen: 276.734 ug/l
RT: 4.171 min Scan# 37
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 56 Resp: 139234

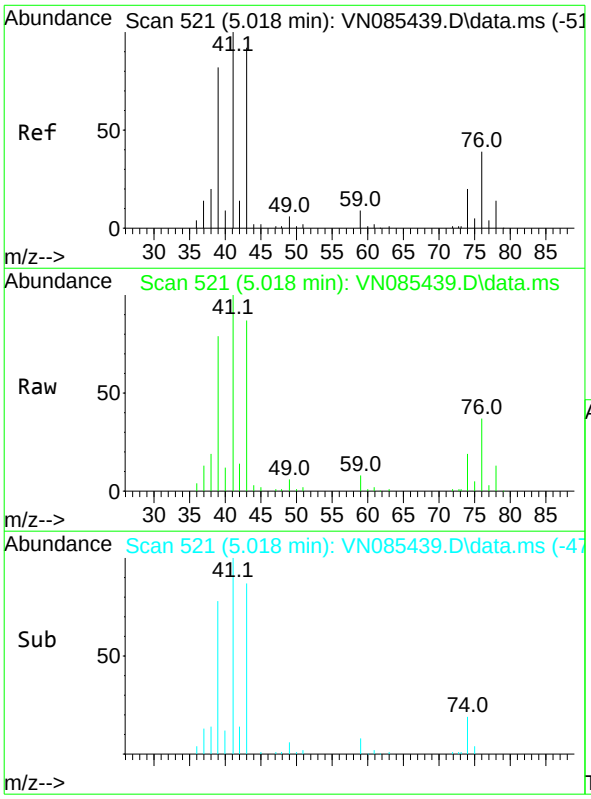
Ion	Ratio	Lower	Upper
56	100		
55	70.4	56.3	84.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

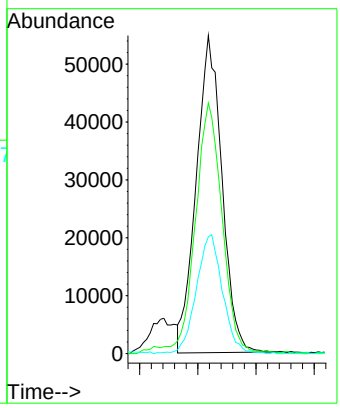
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

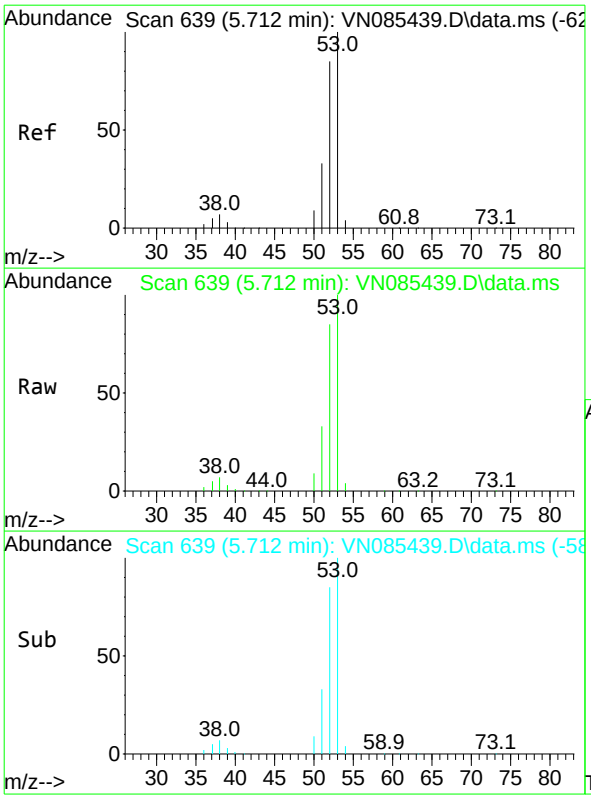


#14
Allyl chloride
Concen: 48.567 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 41 Resp: 168654

Ion	Ratio	Lower	Upper
41	100		
39	80.5	64.4	96.6
76	38.1	30.5	45.7

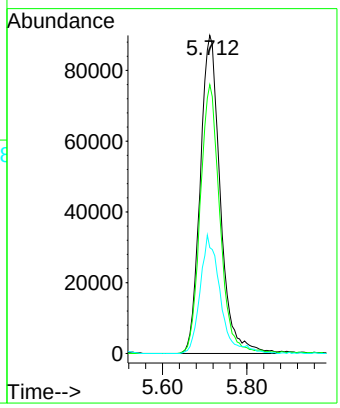




#15
Acrylonitrile
Concen: 253.507 ug/l
RT: 5.712 min Scan# 63
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 53 Resp: 296781

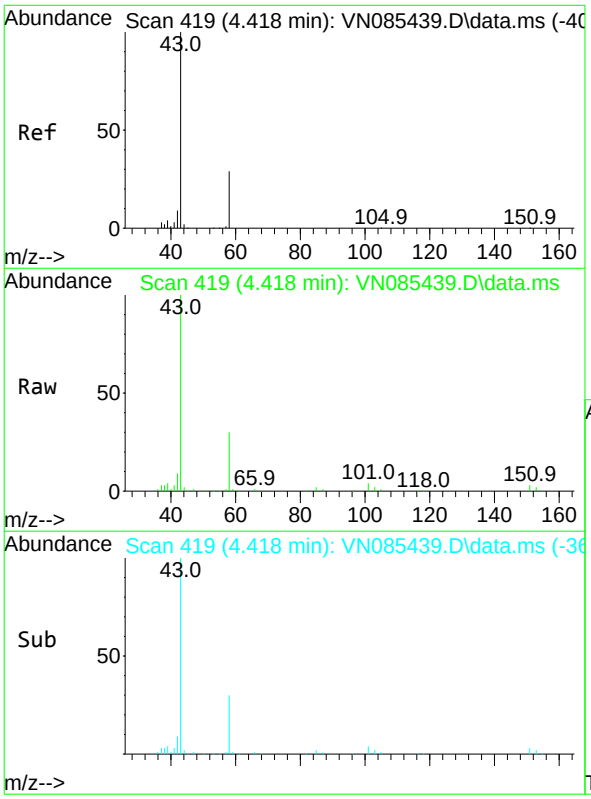
Ion	Ratio	Lower	Upper
53	100		
52	81.9	65.5	98.3
51	37.3	29.8	44.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

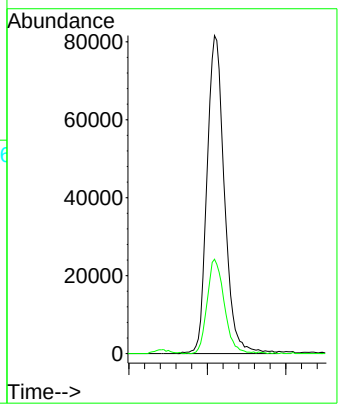
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

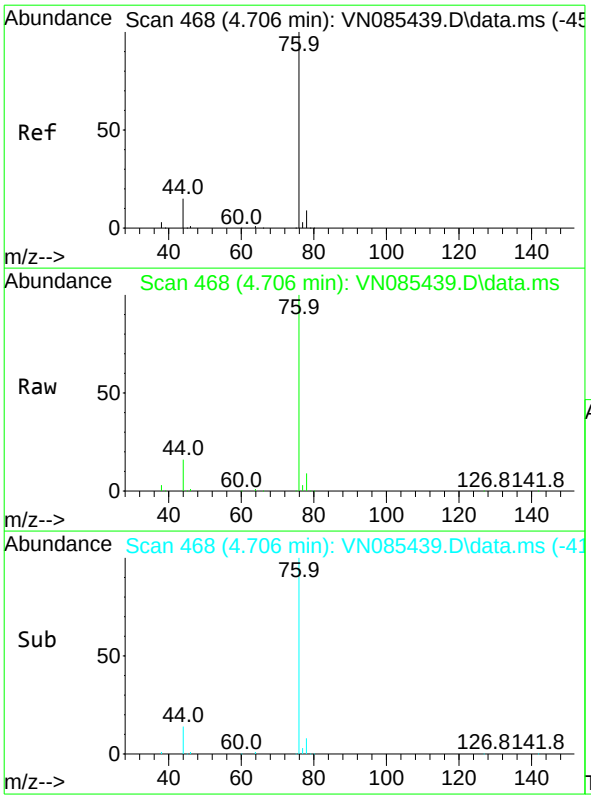


#16
Acetone
Concen: 241.603 ug/l
RT: 4.418 min Scan# 419
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 43 Resp: 251271

Ion	Ratio	Lower	Upper
43	100		
58	29.7	23.8	35.6

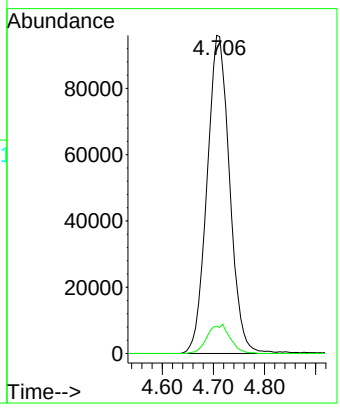




#17
Carbon Disulfide
Concen: 44.710 ug/l
RT: 4.706 min Scan# 46
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 76 Resp: 294604

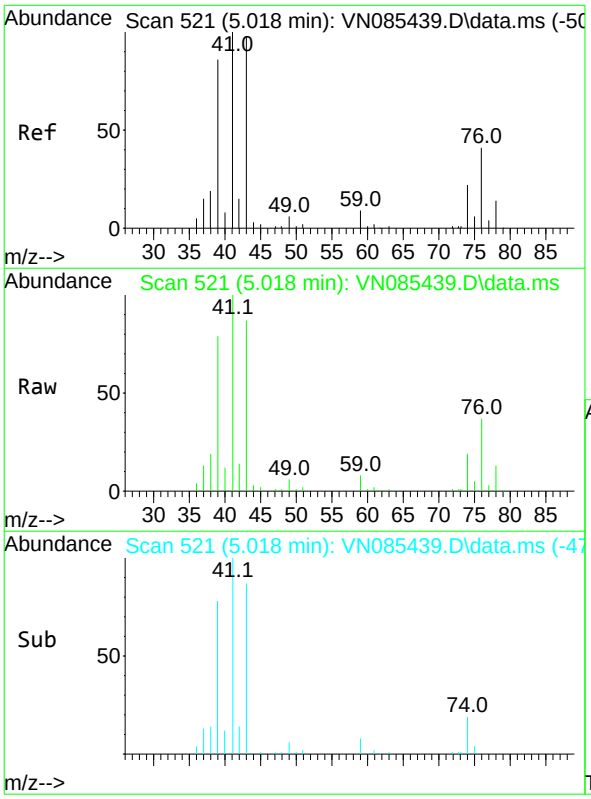
Ion	Ratio	Lower	Upper
76	100		
78	8.6	6.9	10.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

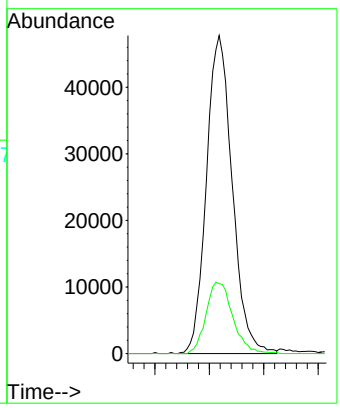
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

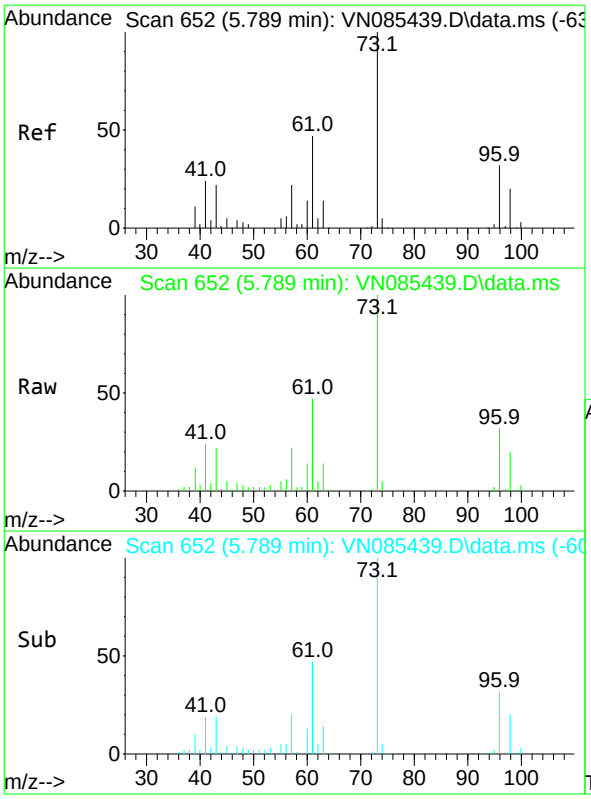


#18
Methyl Acetate
Concen: 49.798 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 43 Resp: 157485

Ion	Ratio	Lower	Upper
43	100		
74	23.3	18.6	28.0

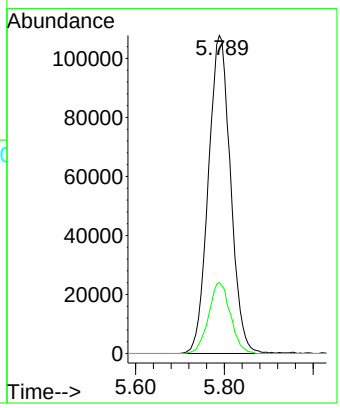




#19
Methyl tert-butyl Ether
Concen: 53.758 ug/l
RT: 5.789 min Scan# 65
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 73 Resp: 373561

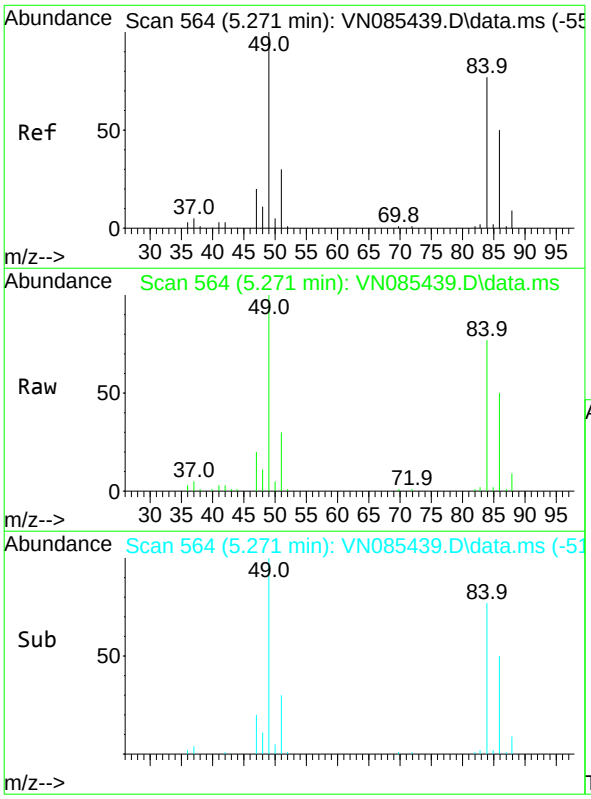
Ion	Ratio	Lower	Upper
73	100		
57	22.3	17.8	26.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

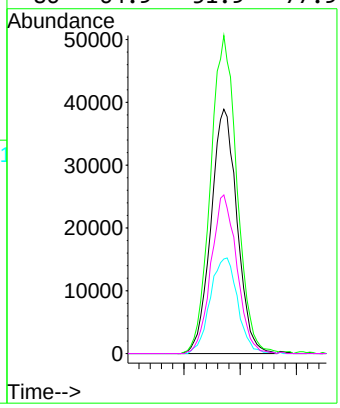
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

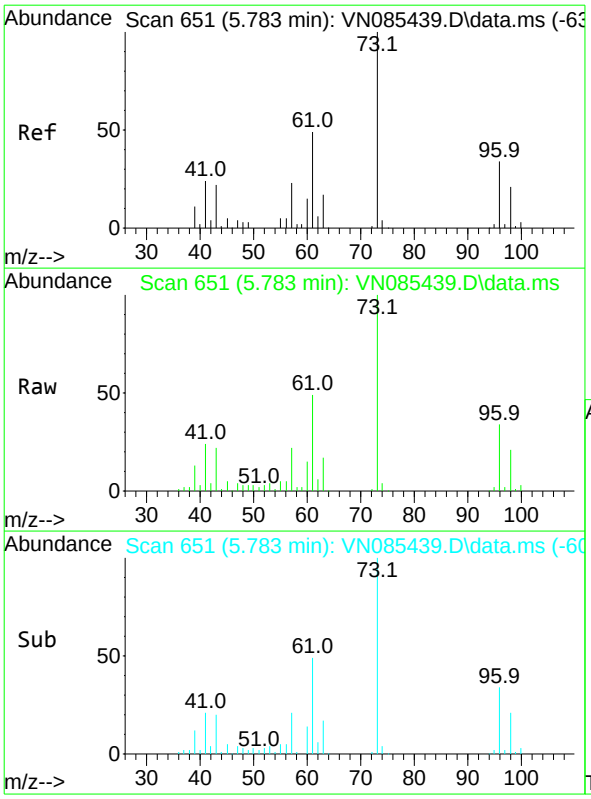


#20
Methylene Chloride
Concen: 48.748 ug/l
RT: 5.271 min Scan# 564
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 84 Resp: 125508

Ion	Ratio	Lower	Upper
84	100		
49	130.1	104.1	156.1
51	38.7	31.0	46.4
86	64.9	51.9	77.9

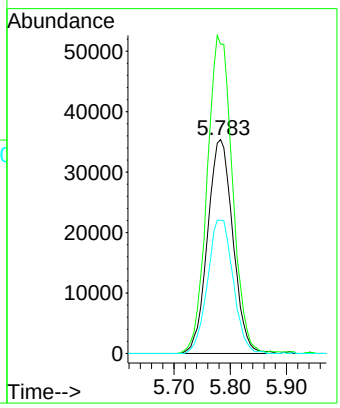




#21
trans-1,2-Dichloroethene
Concen: 48.395 ug/l
RT: 5.783 min Scan# 65
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 96 Resp: 110684

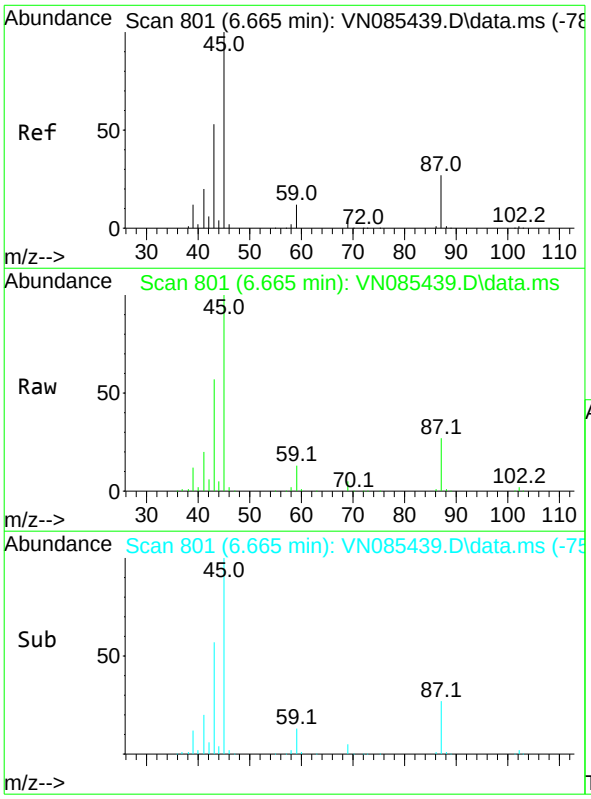
Ion	Ratio	Lower	Upper
96	100		
61	144.6	115.7	173.5
98	62.3	49.8	74.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

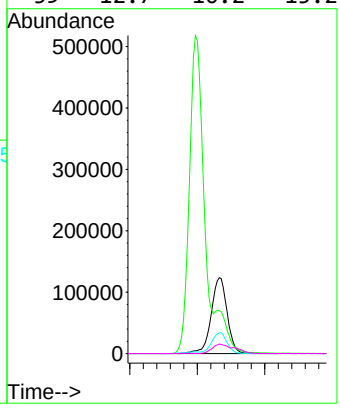
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

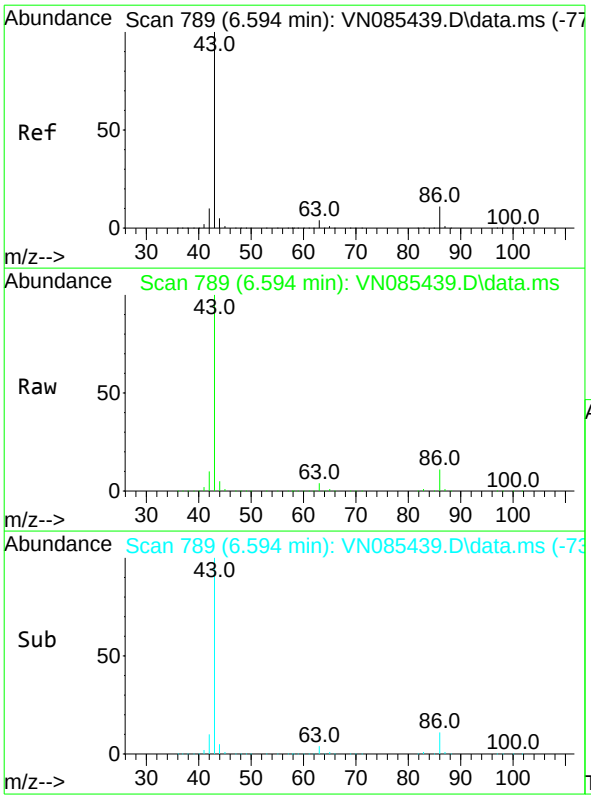


#22
Diisopropyl ether
Concen: 52.707 ug/l
RT: 6.665 min Scan# 801
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 45 Resp: 406253

Ion	Ratio	Lower	Upper
45	100		
43	56.3	45.0	67.6
87	27.3	21.8	32.8
59	12.7	10.2	15.2

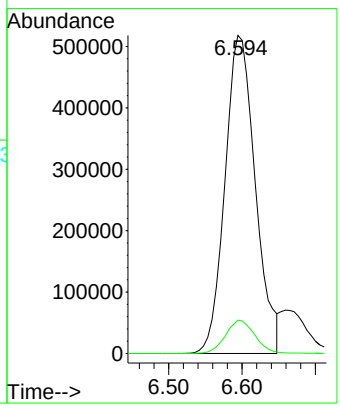




#23
Vinyl Acetate
Concen: 275.471 ug/l
RT: 6.594 min Scan# 78
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 43 Resp: 1491031

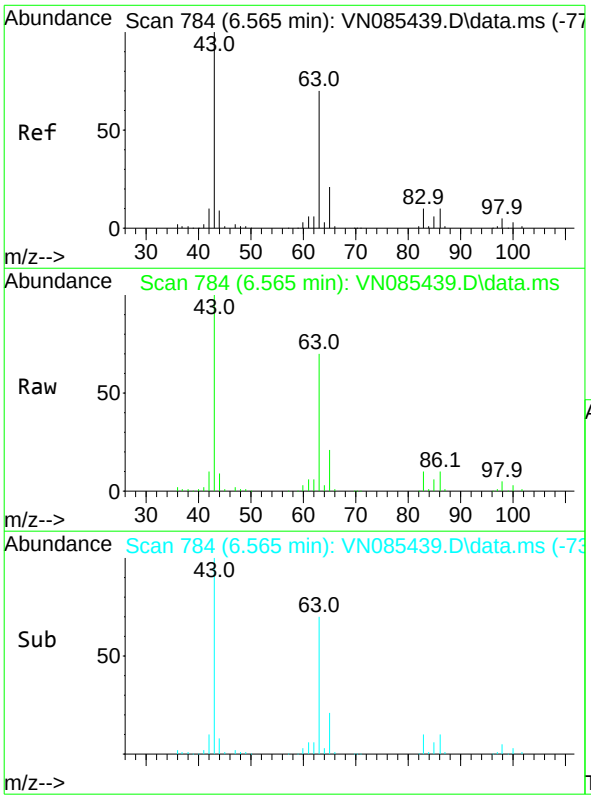
Ion	Ratio	Lower	Upper
43	100		
86	10.5	8.4	12.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

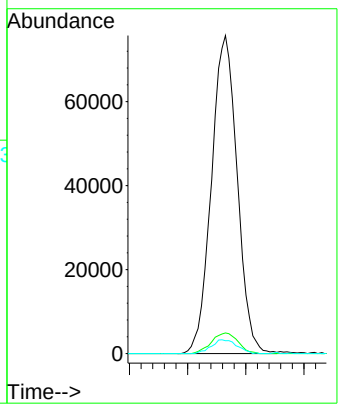
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

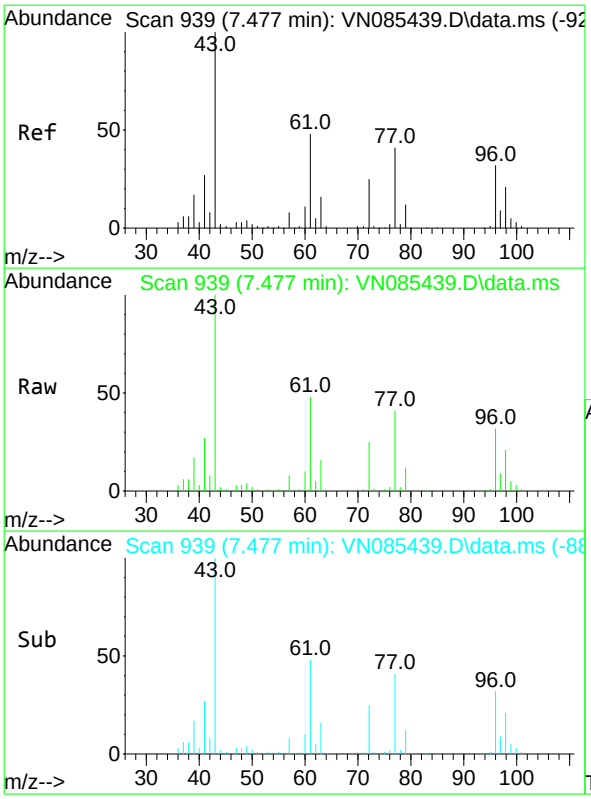


#24
1,1-Dichloroethane
Concen: 49.648 ug/l
RT: 6.565 min Scan# 784
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 63 Resp: 233336

Ion	Ratio	Lower	Upper
63	100		
98	6.5	3.3	9.8
100	4.0	2.0	6.0

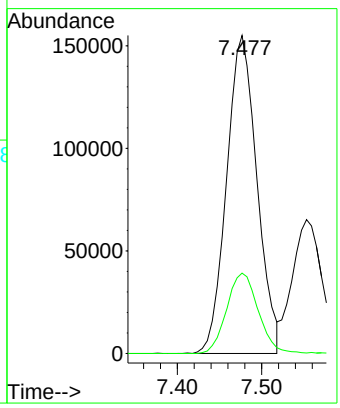




#25
2-Butanone
Concen: 253.815 ug/l
RT: 7.477 min Scan# 93
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 43 Resp: 388457

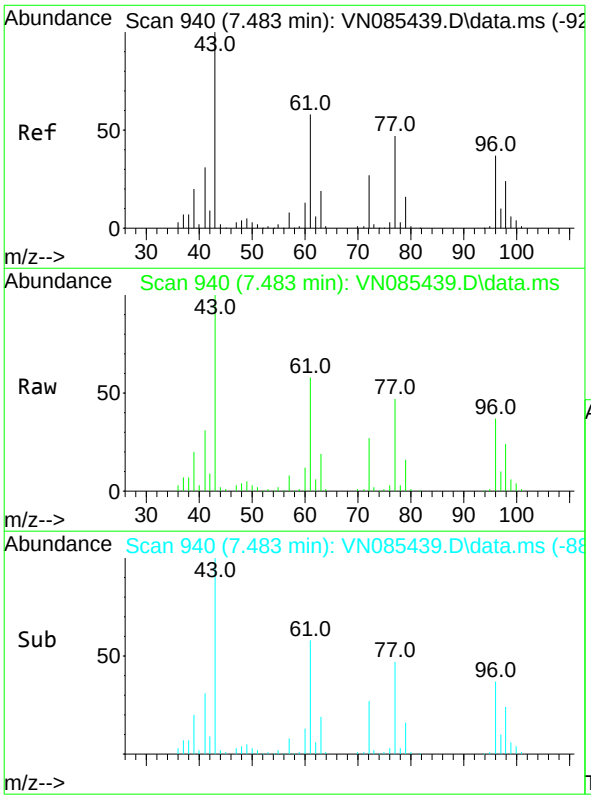
Ion	Ratio	Lower	Upper
43	100		
72	25.3	20.2	30.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

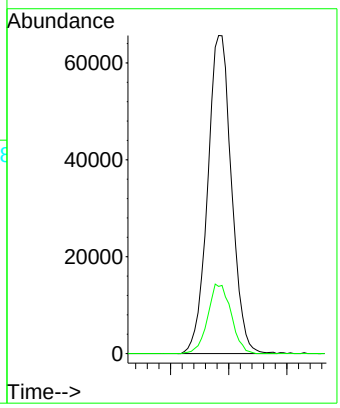
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

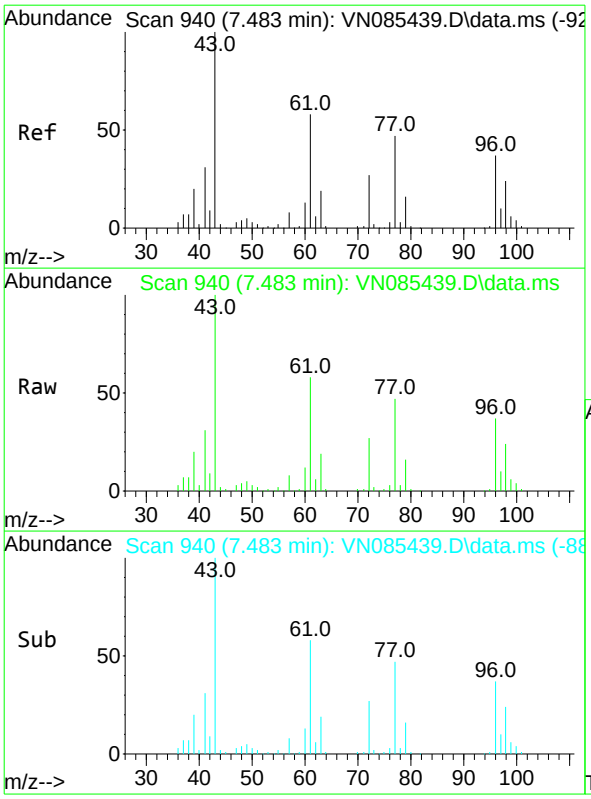


#26
2,2-Dichloropropane
Concen: 49.106 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 77 Resp: 186591

Ion	Ratio	Lower	Upper
77	100		
97	21.4	10.7	32.1

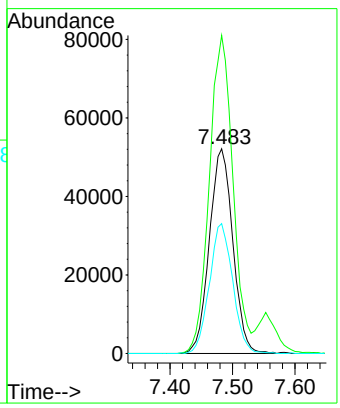




#27
cis-1,2-Dichloroethene
Concen: 50.571 ug/l
RT: 7.483 min Scan# 94
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 96 Resp: 136229

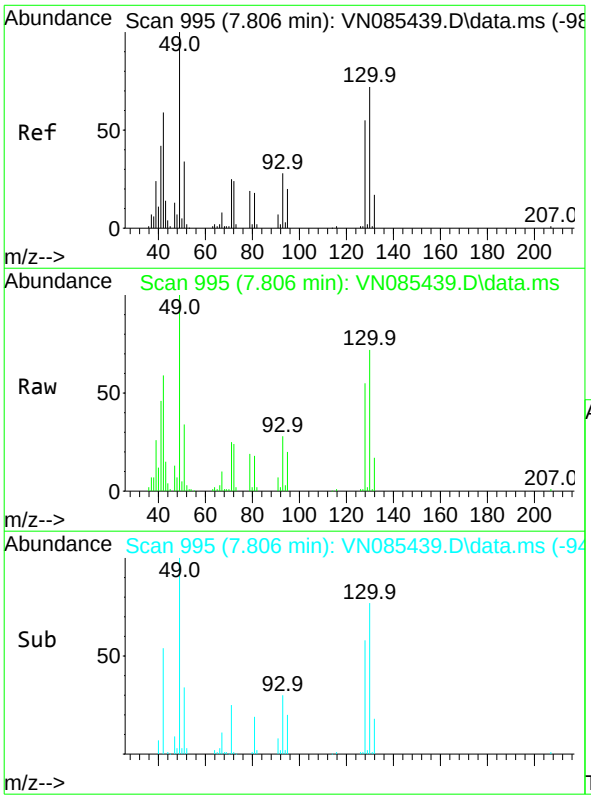
Ion	Ratio	Lower	Upper
96	100		
61	155.9	0.0	311.8
98	63.0	0.0	126.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

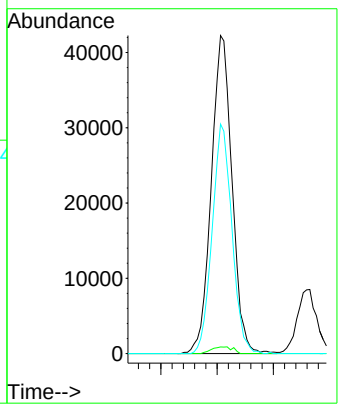
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

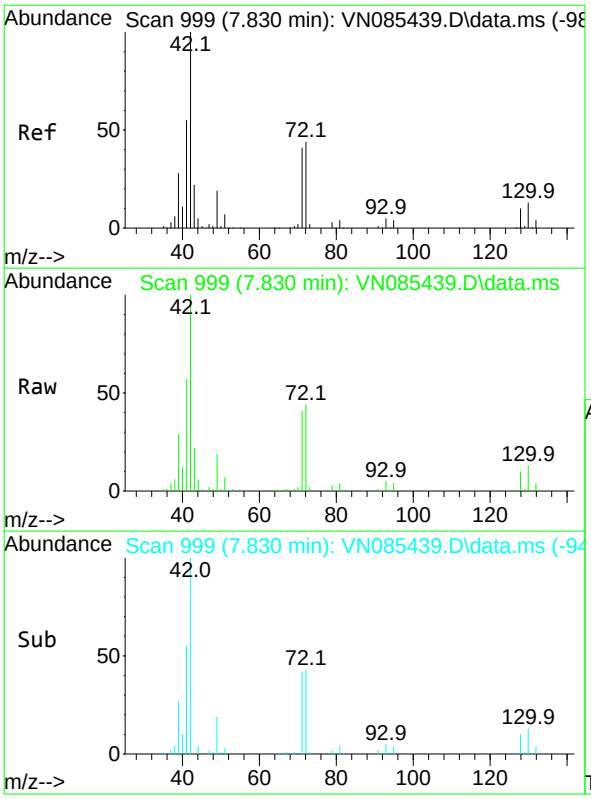


#28
Bromochloromethane
Concen: 49.461 ug/l
RT: 7.806 min Scan# 995
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 49 Resp: 108148

Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	4.4
130	68.7	55.0	82.4

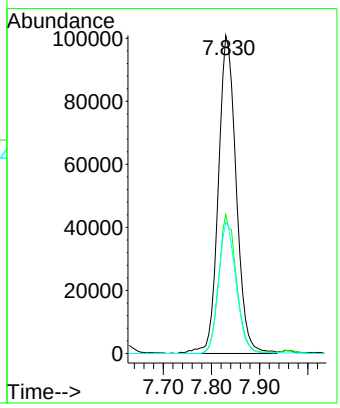




#29
Tetrahydrofuran
Concen: 267.624 ug/l
RT: 7.830 min Scan# 99
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 42 Resp: 259683

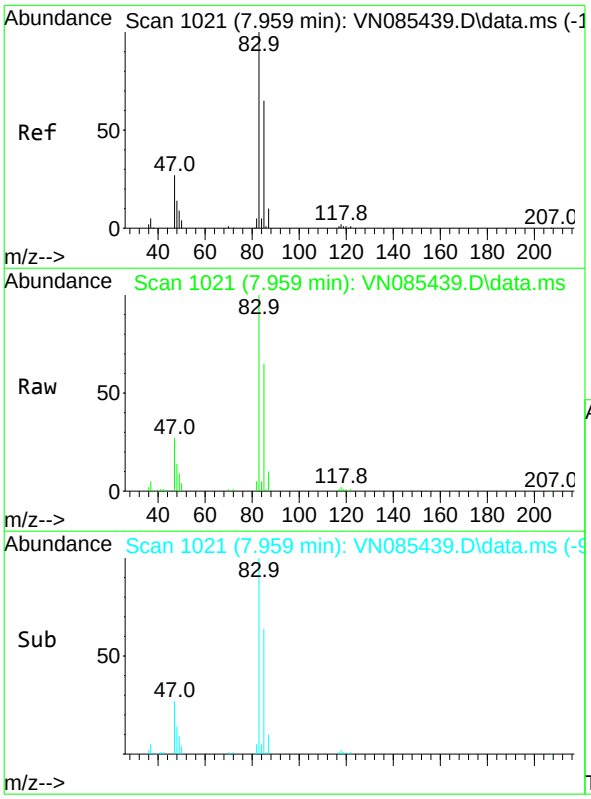
Ion	Ratio	Lower	Upper
42	100		
72	42.7	34.2	51.2
71	40.6	32.5	48.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

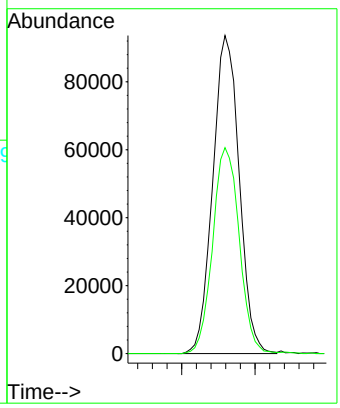
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

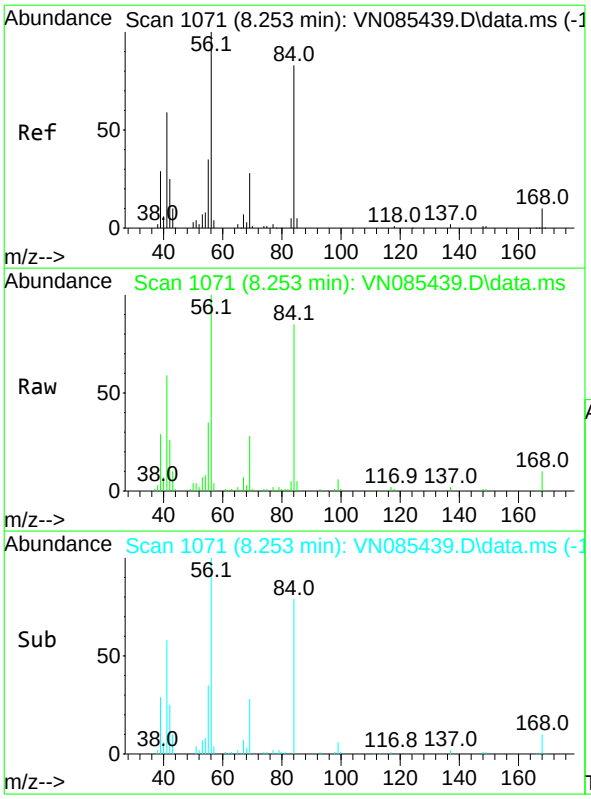


#30
Chloroform
Concen: 48.229 ug/l
RT: 7.959 min Scan# 1021
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 83 Resp: 234271

Ion	Ratio	Lower	Upper
83	100		
85	64.7	51.8	77.6

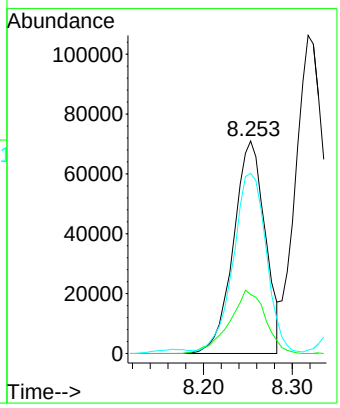




#31
Cyclohexane
Concen: 42.984 ug/l
RT: 8.253 min Scan# 10
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 56 Resp: 175588

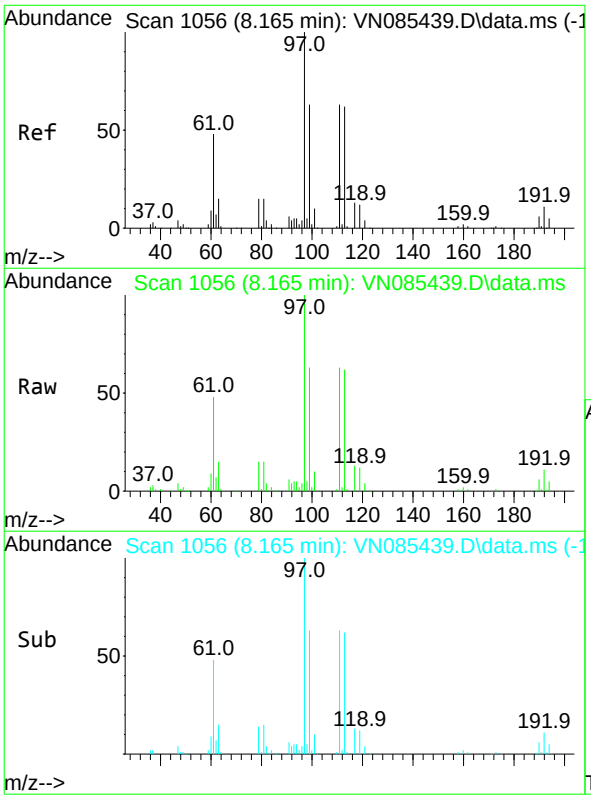
Ion	Ratio	Lower	Upper
56	100		
69	27.8	22.2	33.4
84	83.0	66.4	99.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

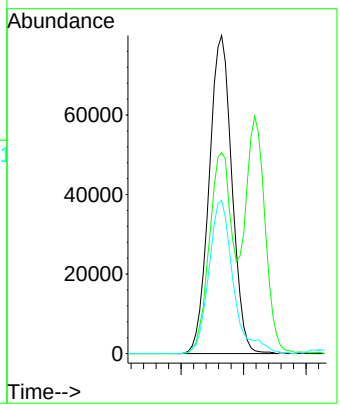
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

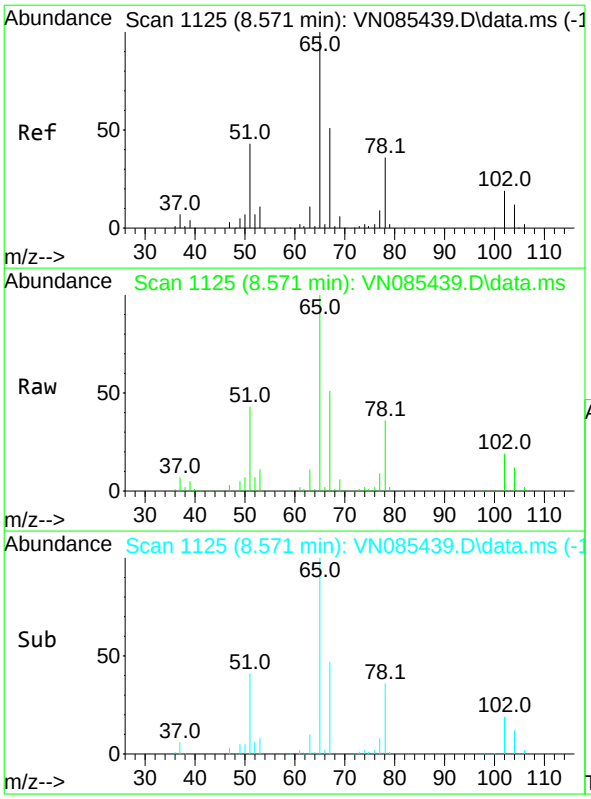


#32
1,1,1-Trichloroethane
Concen: 47.547 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 97 Resp: 202590

Ion	Ratio	Lower	Upper
97	100		
99	62.2	49.8	74.6
61	51.8	41.4	62.2

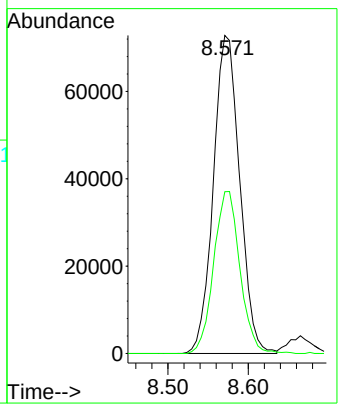




#33
1,2-Dichloroethane-d4
Concen: 51.500 ug/l
RT: 8.571 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 65 Resp: 165768

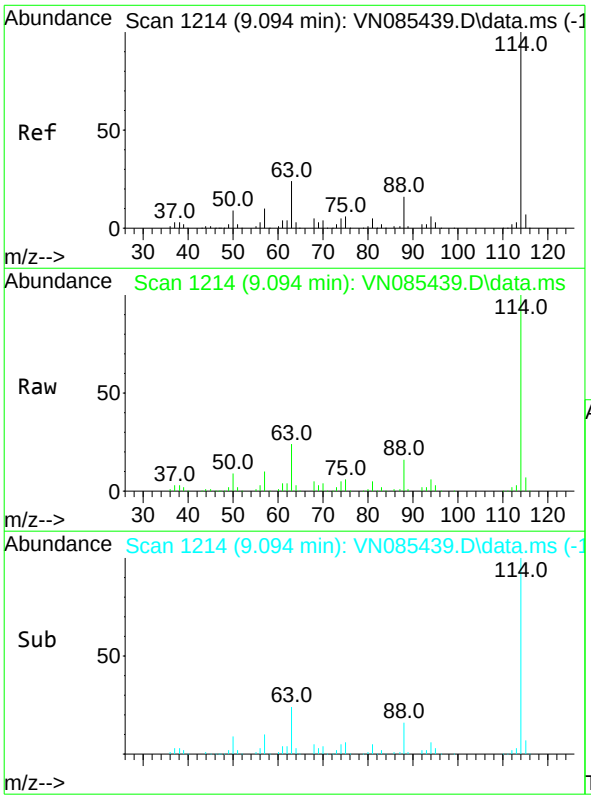
Ion	Ratio	Lower	Upper
65	100		
67	50.8	0.0	101.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

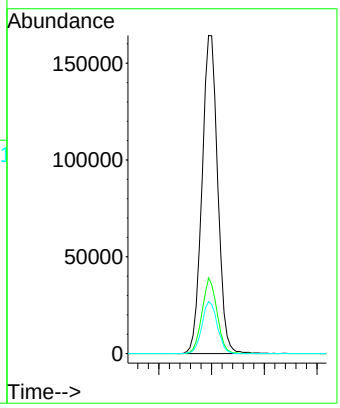
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

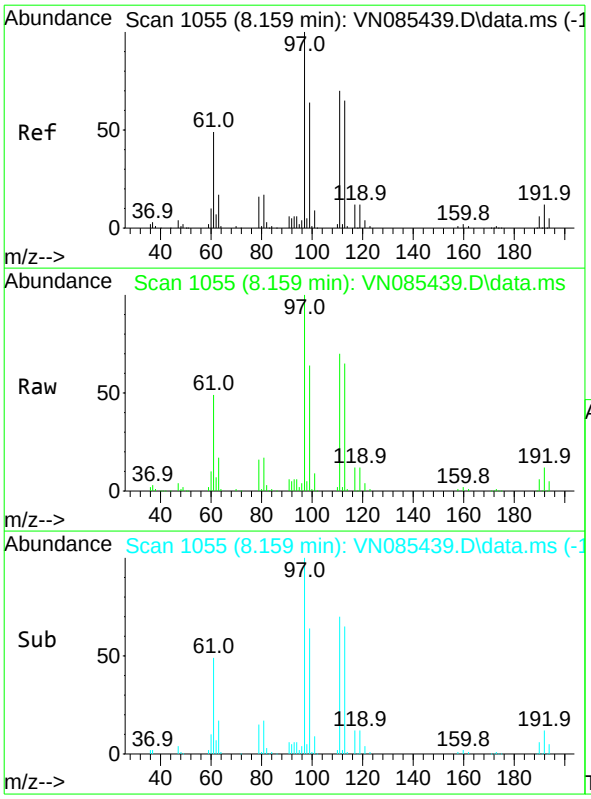


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.094 min Scan# 1214
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion:114 Resp: 339872

Ion	Ratio	Lower	Upper
114	100		
63	23.8	0.0	47.6
88	16.3	0.0	32.6

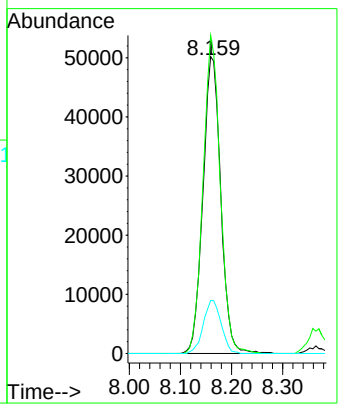




#35
Dibromofluoromethane
Concen: 51.552 ug/l
RT: 8.159 min Scan# 10
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion:113 Resp: 121554

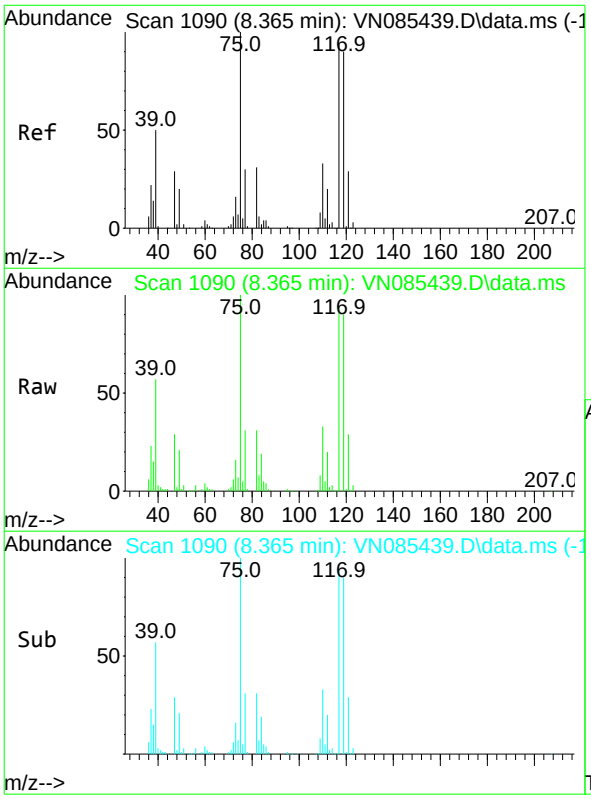
Ion	Ratio	Lower	Upper
113	100		
111	103.4	82.7	124.1
192	17.9	14.3	21.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

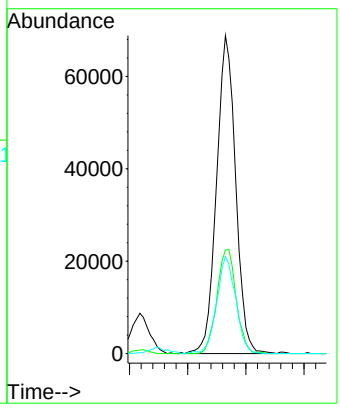
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

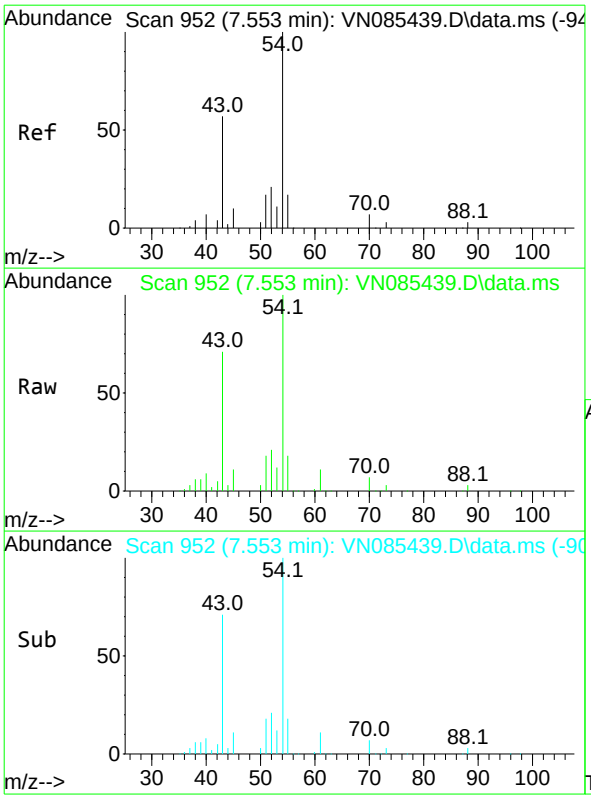


#36
1,1-Dichloropropene
Concen: 47.453 ug/l
RT: 8.365 min Scan# 1090
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 75 Resp: 157031

Ion	Ratio	Lower	Upper
75	100		
110	33.0	16.5	49.5
77	30.5	24.4	36.6

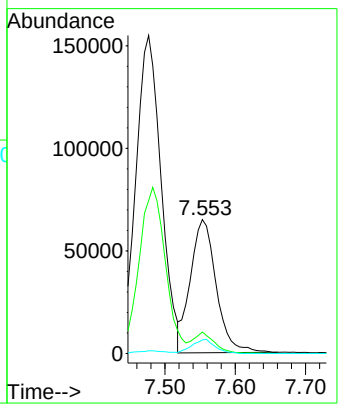




#37
Ethyl Acetate
Concen: 49.658 ug/l
RT: 7.553 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 43 Resp: 165866

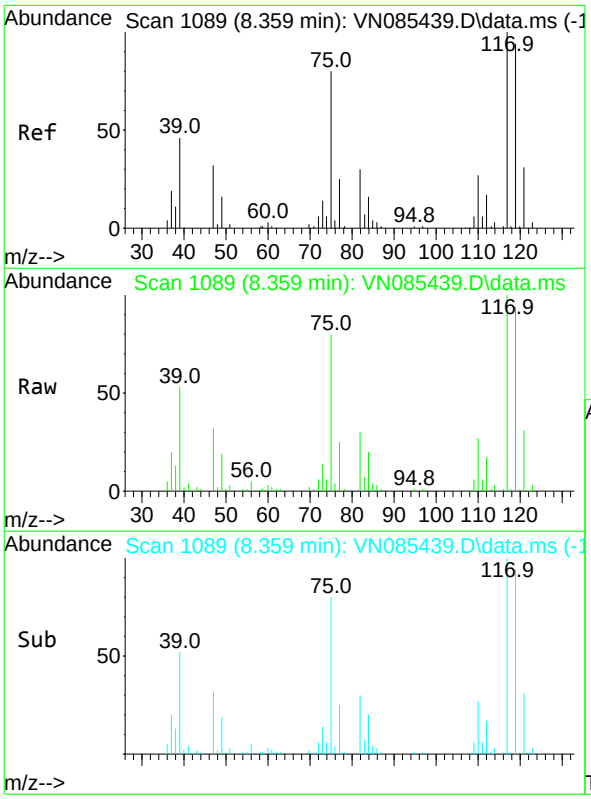
Ion	Ratio	Lower	Upper
43	100		
61	13.6	10.9	16.3
70	9.4	7.5	11.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

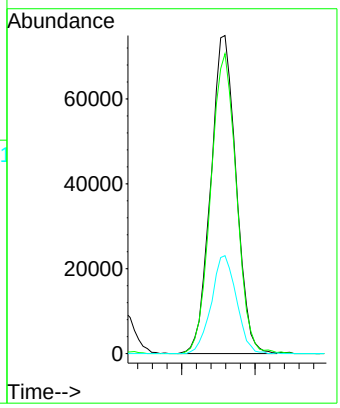
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

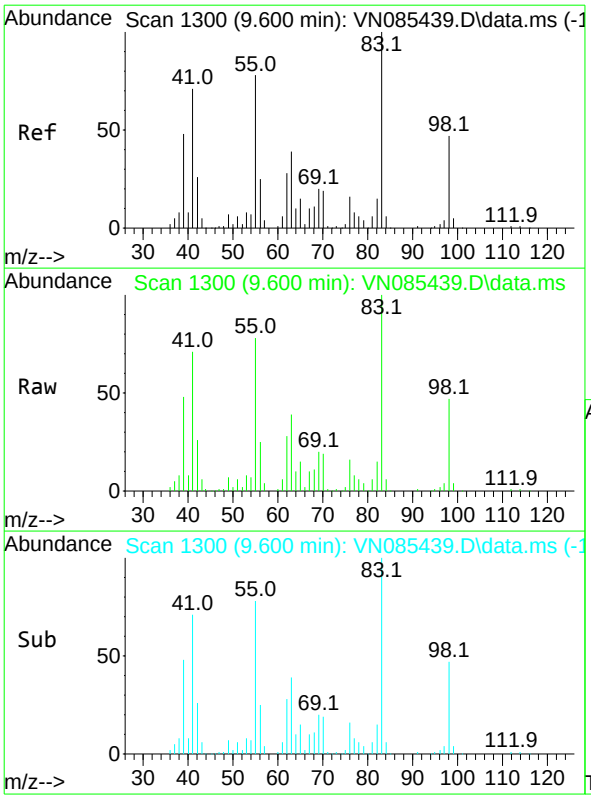


#38
Carbon Tetrachloride
Concen: 47.564 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion:117 Resp: 180199

Ion	Ratio	Lower	Upper
117	100		
119	94.3	75.4	113.2
121	30.8	24.6	37.0

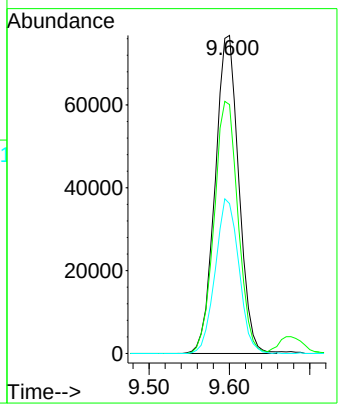




#39
Methylcyclohexane
Concen: 50.562 ug/l
RT: 9.600 min Scan# 13
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 83 Resp: 157234

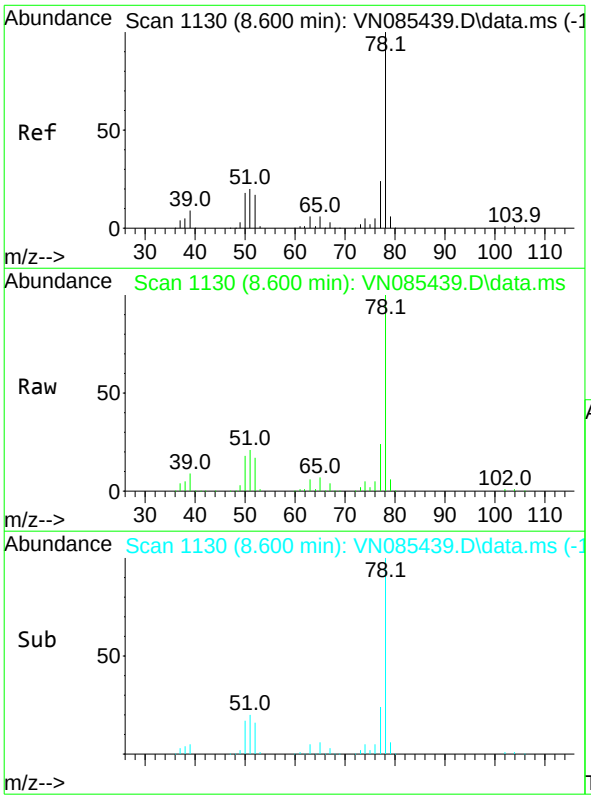
Ion	Ratio	Lower	Upper
83	100		
55	78.3	62.6	94.0
98	47.1	37.7	56.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

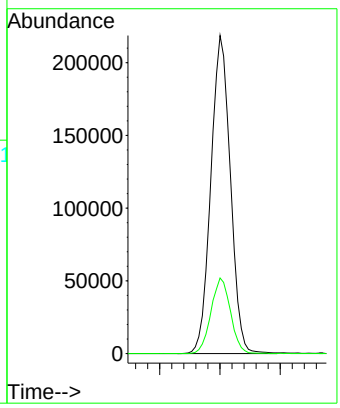
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

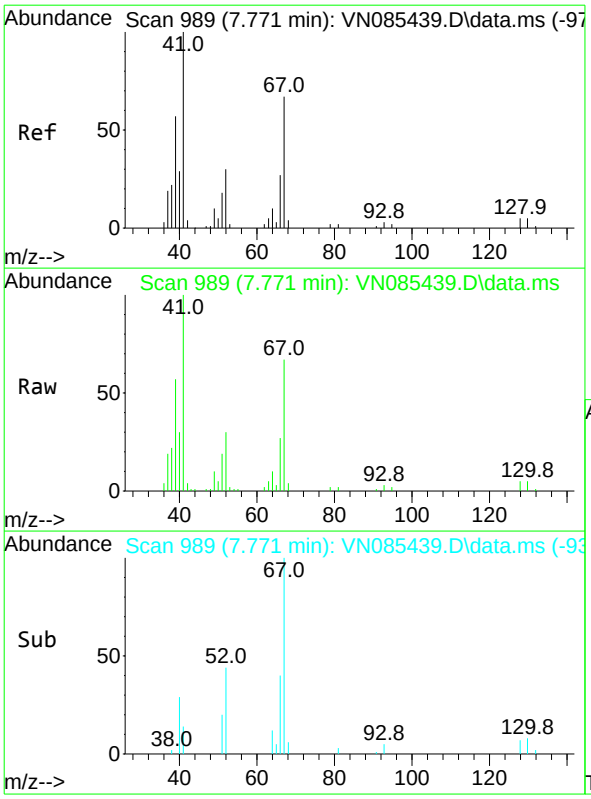


#40
Benzene
Concen: 49.542 ug/l
RT: 8.600 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 78 Resp: 492606

Ion	Ratio	Lower	Upper
78	100		
77	23.8	19.0	28.6

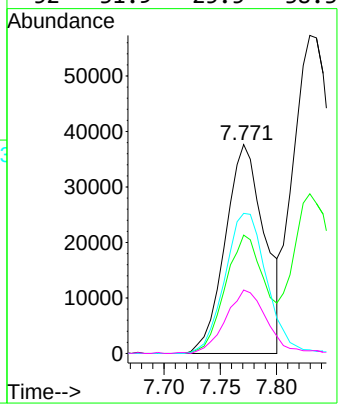




#41
Methacrylonitrile
Concen: 52.775 ug/l
RT: 7.771 min Scan# 98
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 41 Resp: 91711

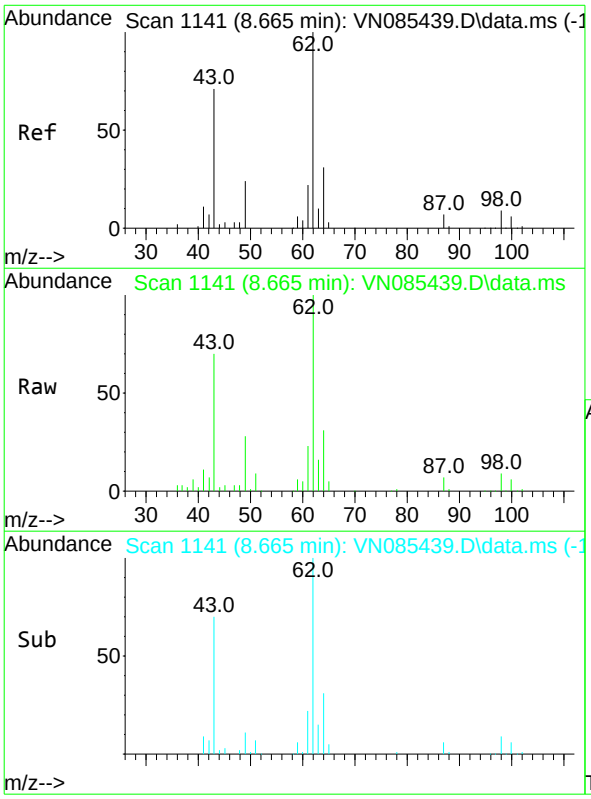
Ion	Ratio	Lower	Upper
41	100		
39	57.5	46.0	69.0
67	71.8	57.4	86.2
52	31.9	25.5	38.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

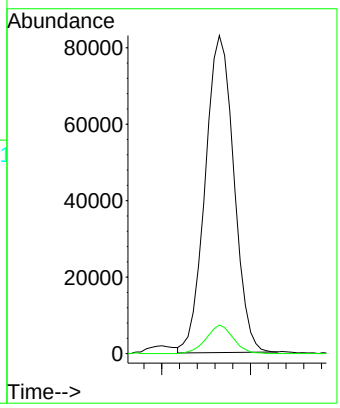
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

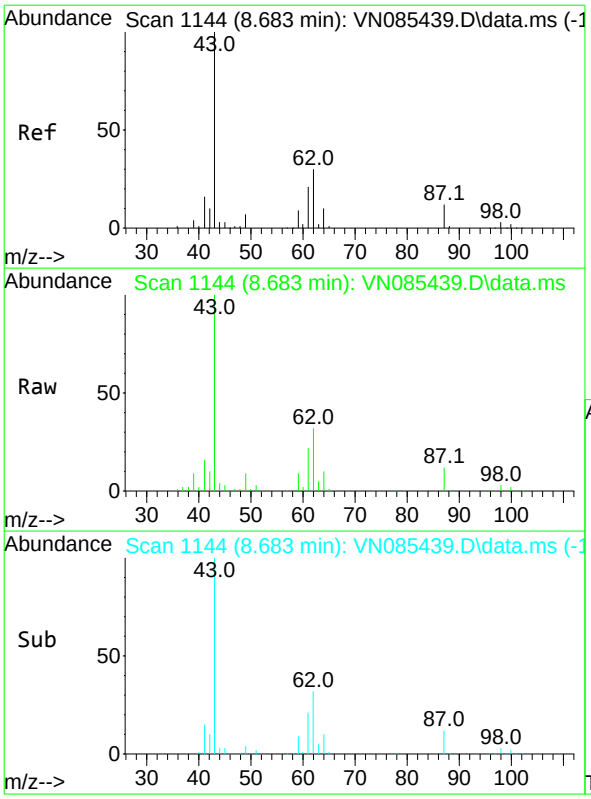


#42
1,2-Dichloroethane
Concen: 49.685 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 62 Resp: 186065

Ion	Ratio	Lower	Upper
62	100		
98	8.5	0.0	17.0

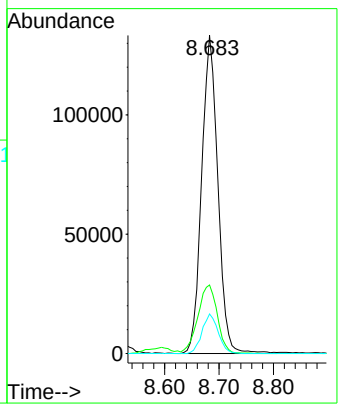




#43
Isopropyl Acetate
Concen: 51.611 ug/l
RT: 8.683 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 43 Resp: 276228

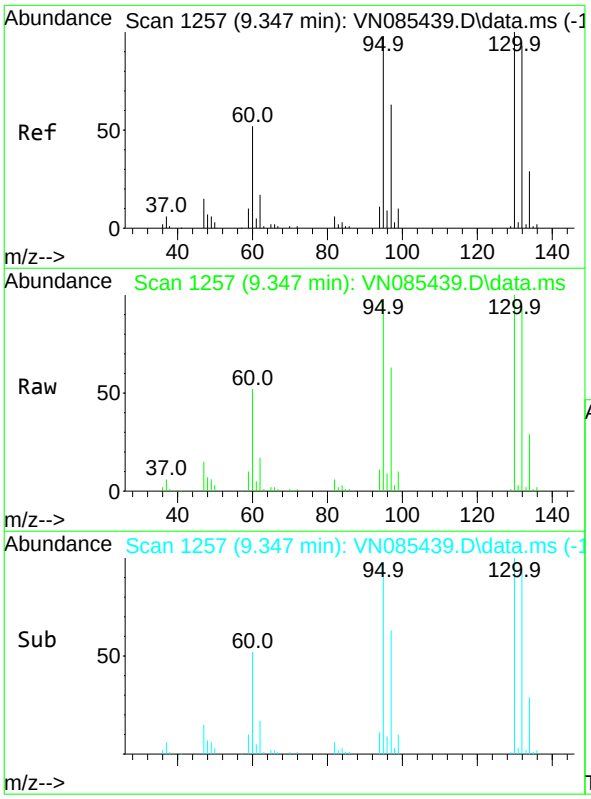
Ion	Ratio	Lower	Upper
43	100		
61	25.9	20.7	31.1
87	12.3	9.8	14.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

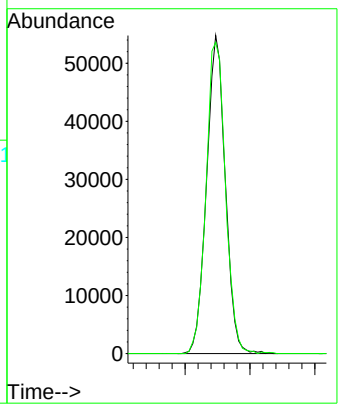
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

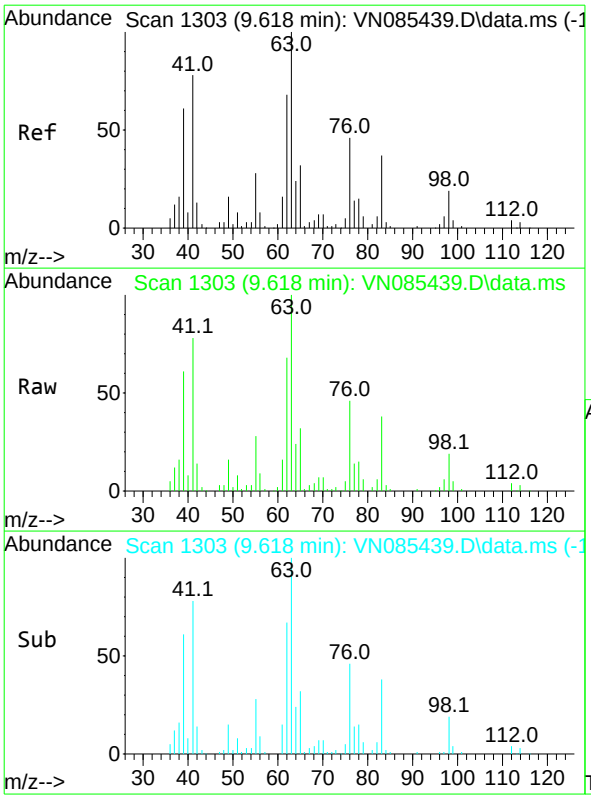


#44
Trichloroethene
Concen: 47.506 ug/l
RT: 9.347 min Scan# 1257
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion:130 Resp: 109953

Ion	Ratio	Lower	Upper
130	100		
95	97.9	0.0	195.8

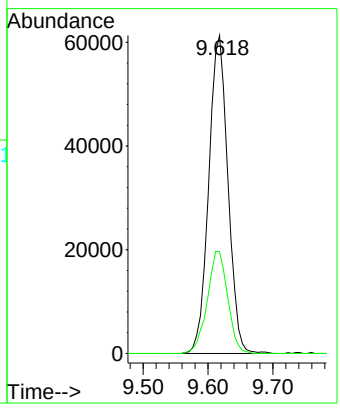




#45
1,2-Dichloropropane
Concen: 49.644 ug/l
RT: 9.618 min Scan# 13
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 63 Resp: 126084

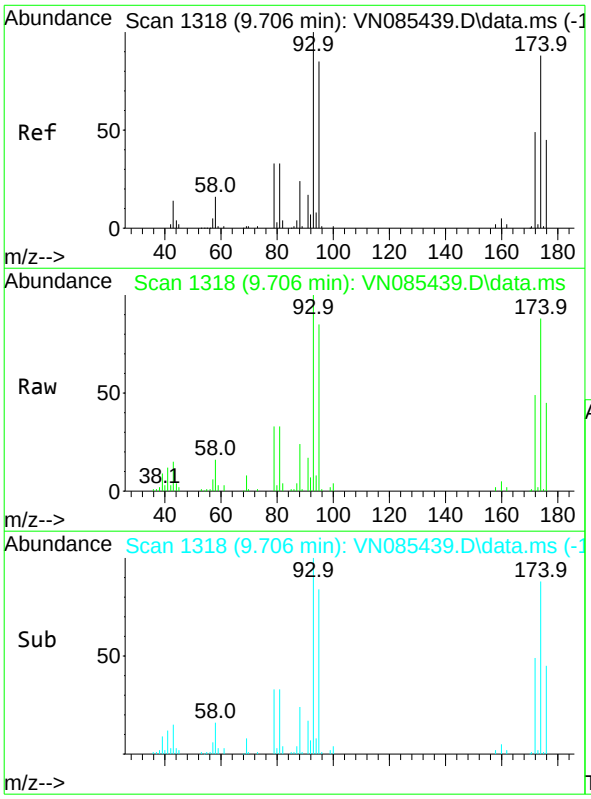
Ion	Ratio	Lower	Upper
63	100		
65	32.0	25.6	38.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

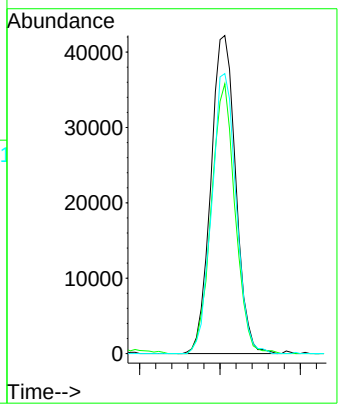
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

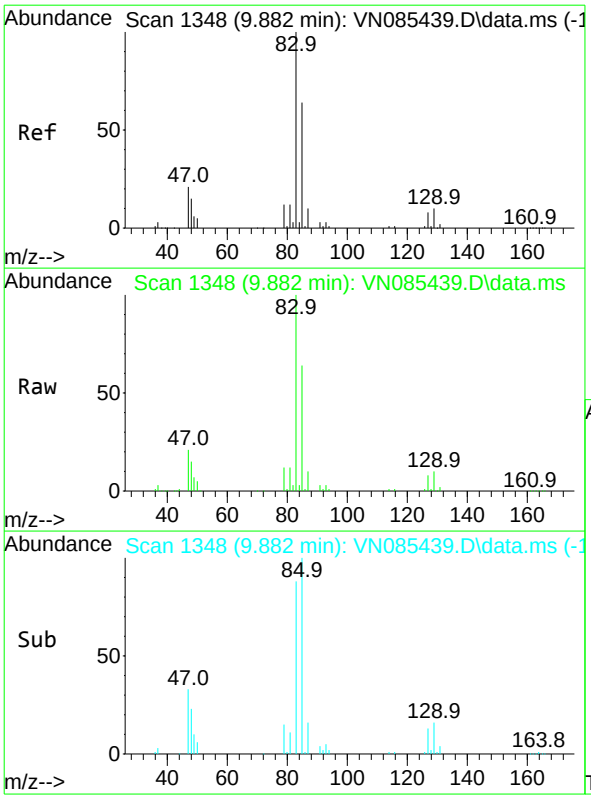


#46
Dibromomethane
Concen: 49.476 ug/l
RT: 9.706 min Scan# 1318
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 93 Resp: 90670

Ion	Ratio	Lower	Upper
93	100		
95	80.9	64.7	97.1
174	86.2	69.0	103.4

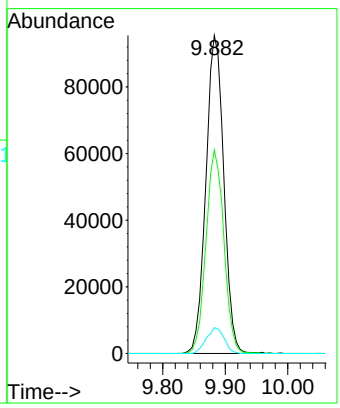




#47
Bromodichloromethane
Concen: 50.867 ug/l
RT: 9.882 min Scan# 13
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 83 Resp: 189915

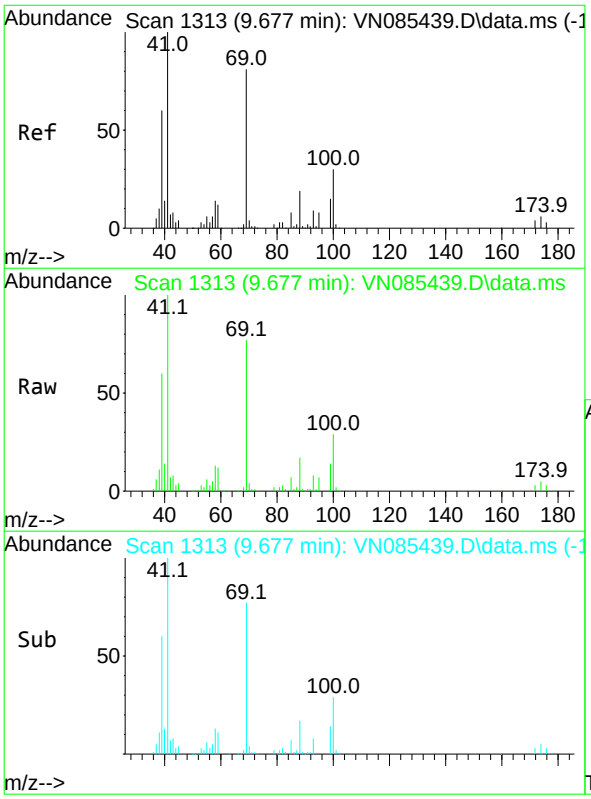
Ion	Ratio	Lower	Upper
83	100		
85	64.0	51.2	76.8
127	8.1	6.5	9.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

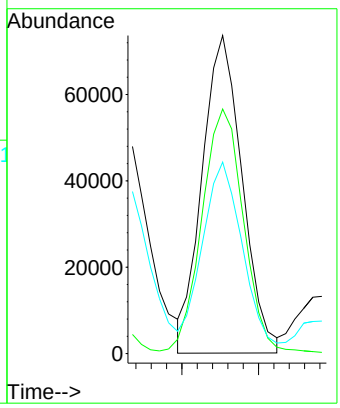
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

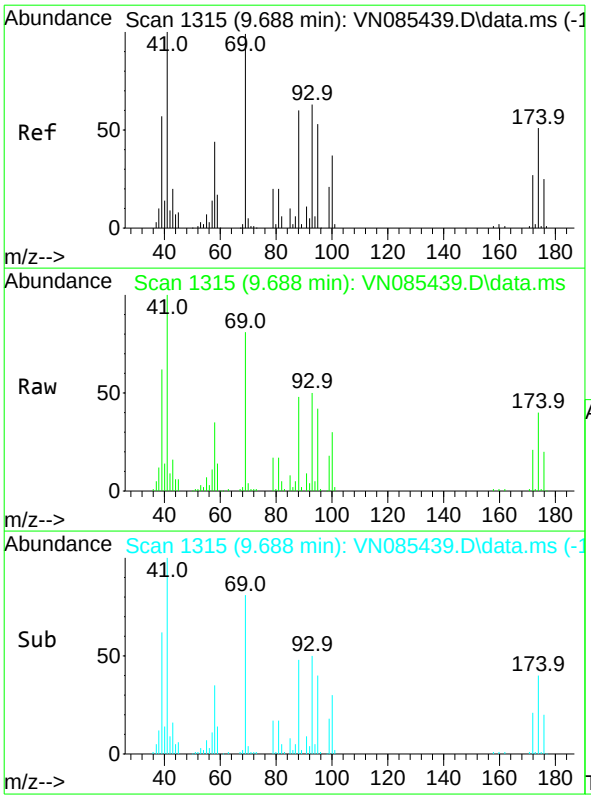


#48
Methyl methacrylate
Concen: 55.385 ug/l
RT: 9.677 min Scan# 1313
Delta R.T. -0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 41 Resp: 133399

Ion	Ratio	Lower	Upper
41	100		
69	80.9	64.7	97.1
39	61.3	49.0	73.6

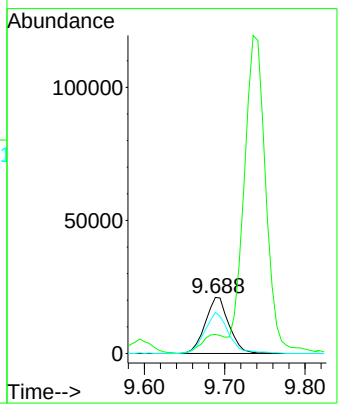




#49
1,4-Dioxane
Concen: 1061.334 ug/l
RT: 9.688 min Scan# 13
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 88 Resp: 43048

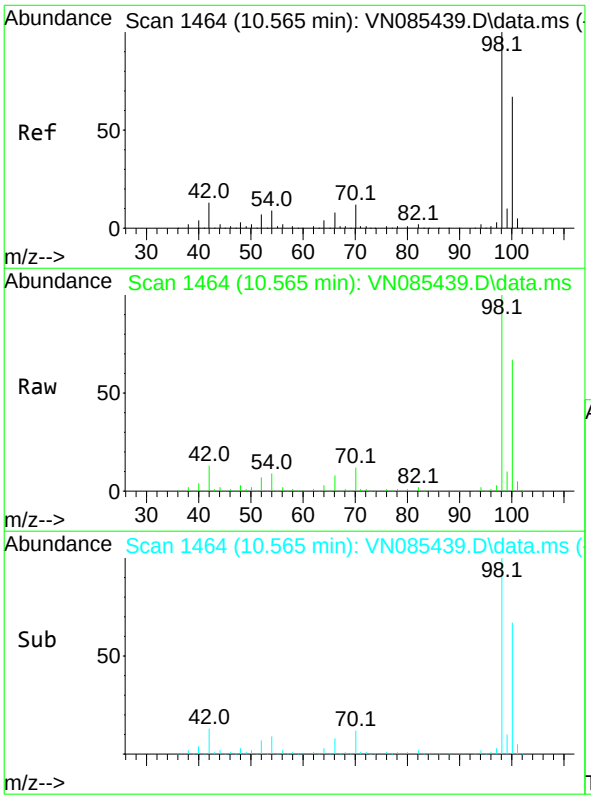
Ion	Ratio	Lower	Upper
88	100		
43	33.2	26.6	39.8
58	74.4	59.5	89.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

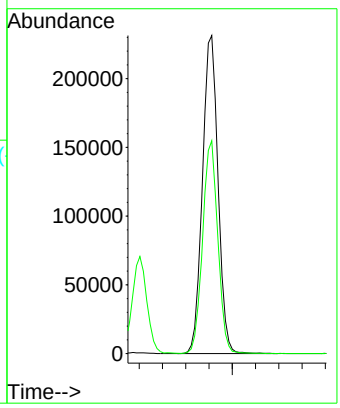
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

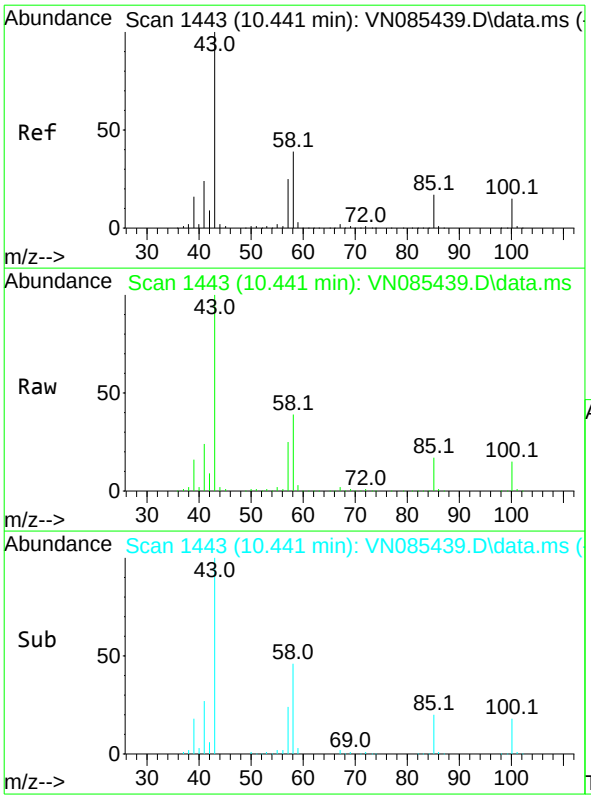


#50
Toluene-d8
Concen: 51.411 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 98 Resp: 430698

Ion	Ratio	Lower	Upper
98	100		
100	65.3	52.2	78.4

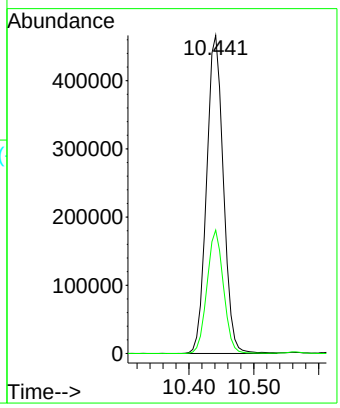




#51
4-Methyl-2-Pentanone
Concen: 269.403 ug/l
RT: 10.441 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 43 Resp: 836707

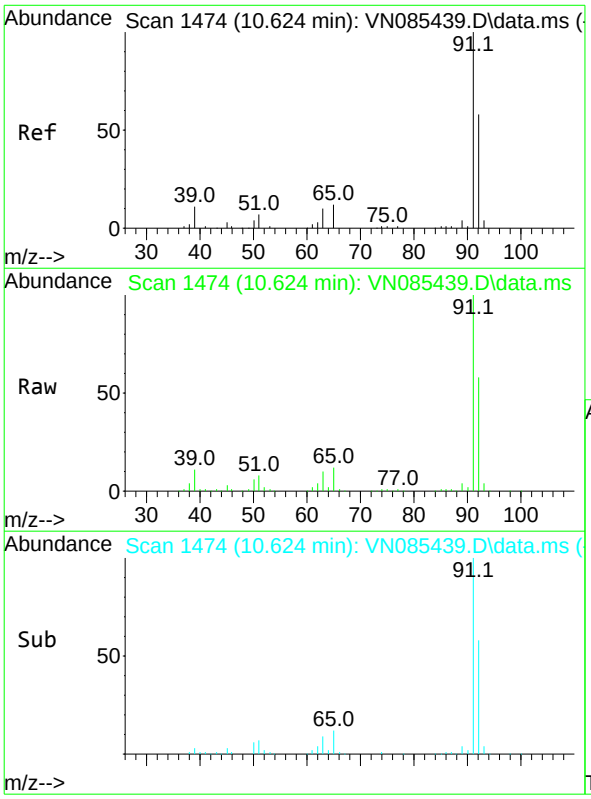
Ion	Ratio	Lower	Upper
43	100		
58	38.1	30.5	45.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

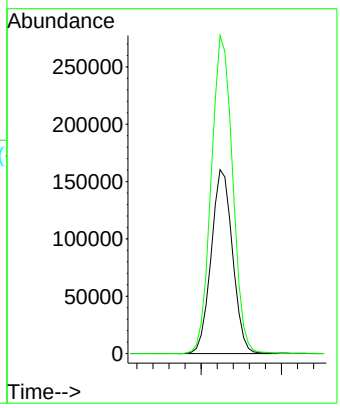
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

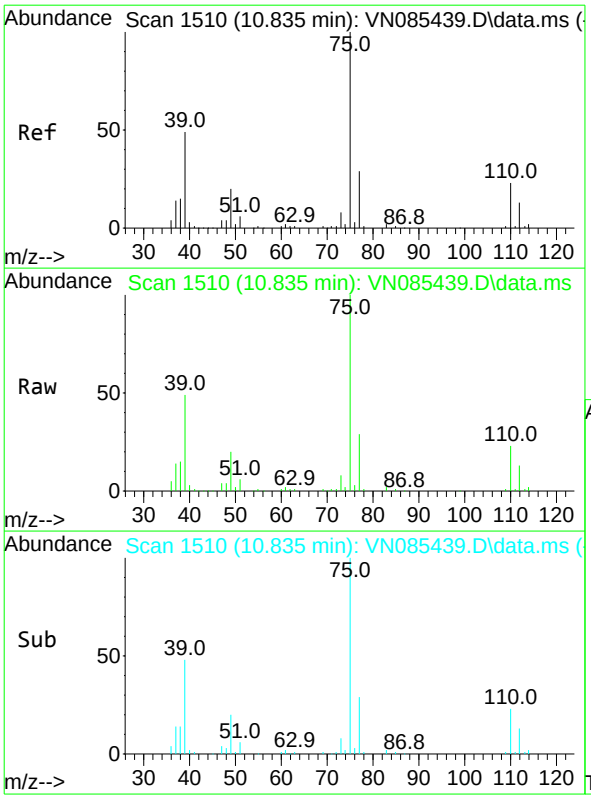


#52
Toluene
Concen: 51.341 ug/l
RT: 10.624 min Scan# 1474
Delta R.T. -0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 92 Resp: 295792

Ion	Ratio	Lower	Upper
92	100		
91	174.0	139.2	208.8

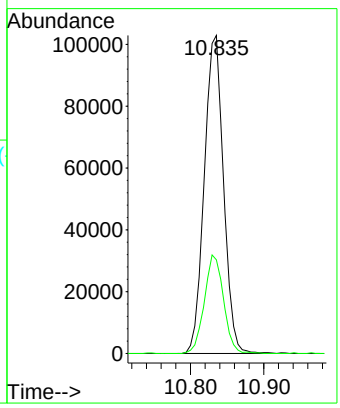




#53
t-1,3-Dichloropropene
Concen: 53.125 ug/l
RT: 10.835 min Scan# 15
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 75 Resp: 187439

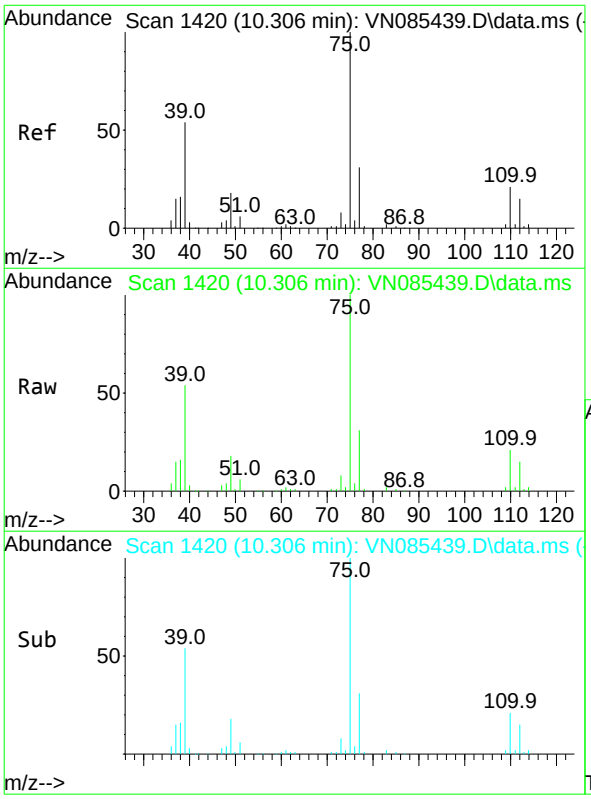
Ion	Ratio	Lower	Upper
75	100		
77	29.4	23.5	35.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

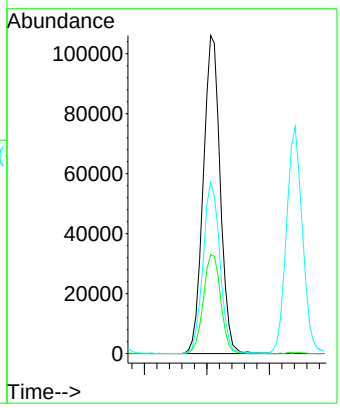
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

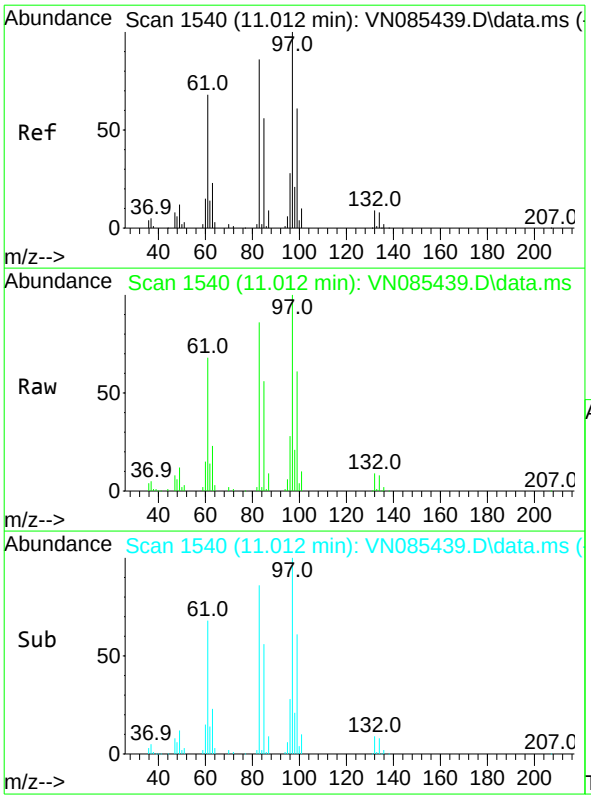


#54
cis-1,3-Dichloropropene
Concen: 53.006 ug/l
RT: 10.306 min Scan# 1420
Delta R.T. -0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 75 Resp: 199771

Ion	Ratio	Lower	Upper
75	100		
77	31.2	25.0	37.4
39	53.9	43.1	64.7

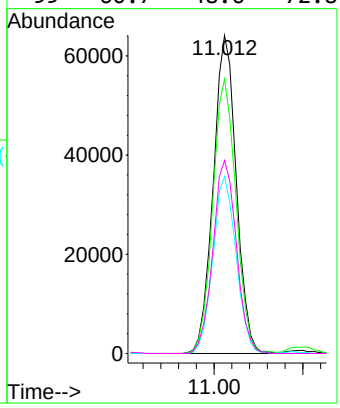




#55
1,1,2-Trichloroethane
Concen: 50.641 ug/l
RT: 11.012 min Scan# 15
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 97 Resp: 115462

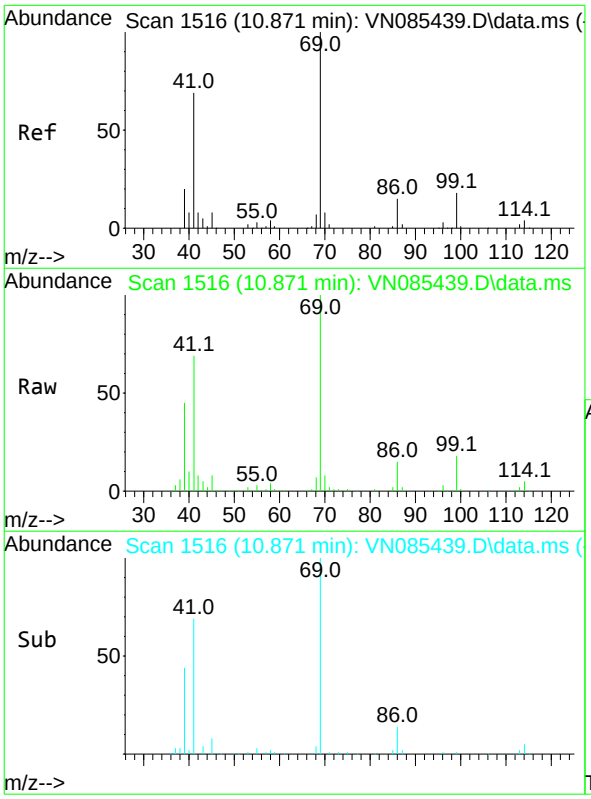
Ion	Ratio	Lower	Upper
97	100		
83	86.3	69.0	103.6
85	55.7	44.6	66.8
99	60.7	48.6	72.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

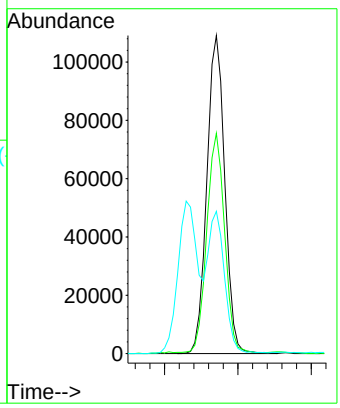
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

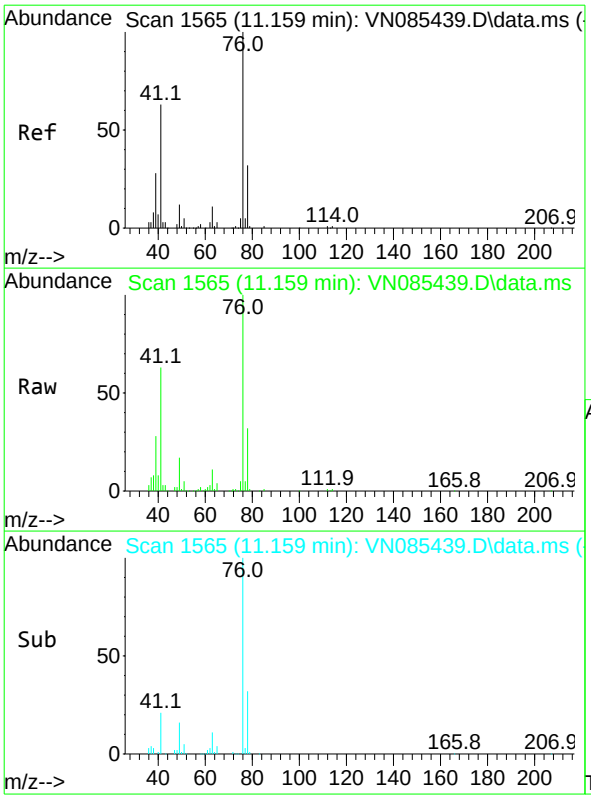


#56
Ethyl methacrylate
Concen: 48.182 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 69 Resp: 184775

Ion	Ratio	Lower	Upper
69	100		
41	68.3	54.6	82.0
39	40.5	32.4	48.6

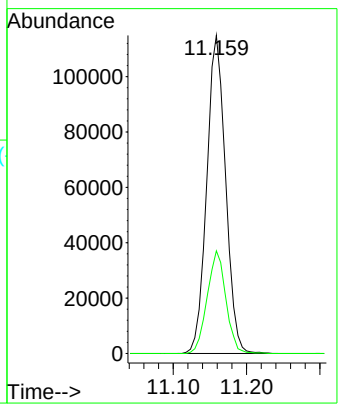




#57
1,3-Dichloropropane
Concen: 51.606 ug/l
RT: 11.159 min Scan# 15
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 76 Resp: 204590

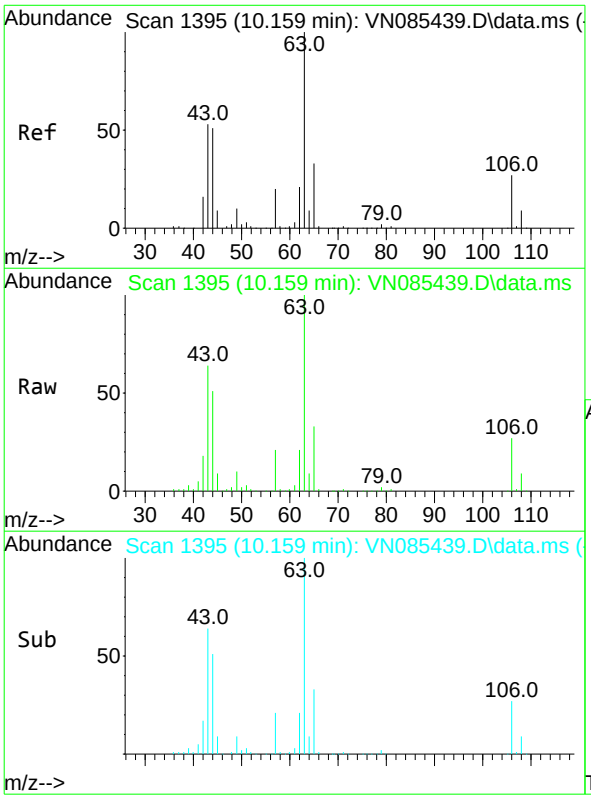
Ion	Ratio	Lower	Upper
76	100		
78	32.0	25.6	38.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

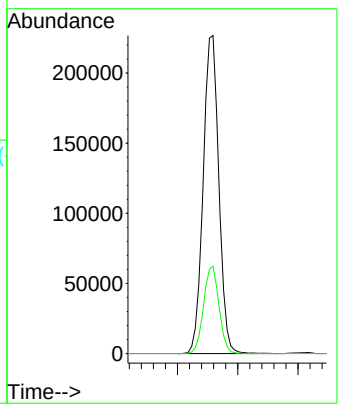
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

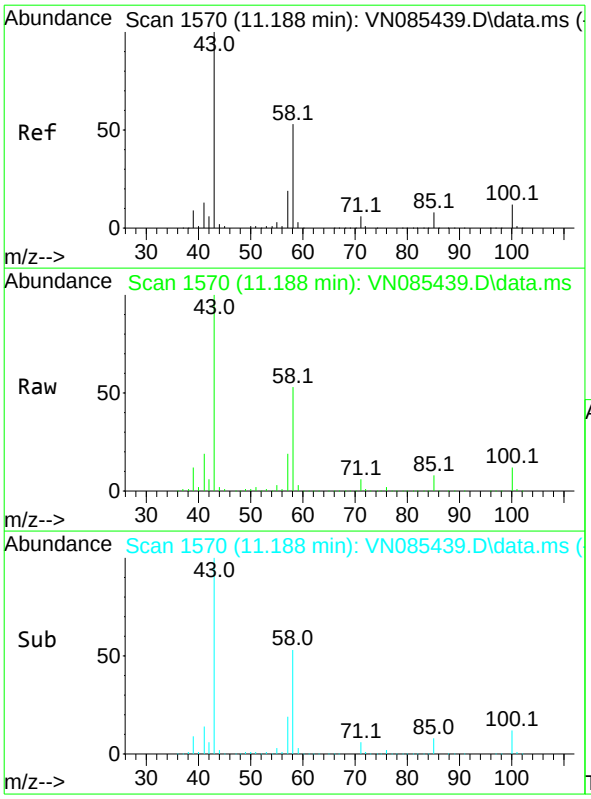


#58
2-Chloroethyl Vinyl ether
Concen: 283.088 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 63 Resp: 409594

Ion	Ratio	Lower	Upper
63	100		
106	27.0	21.6	32.4

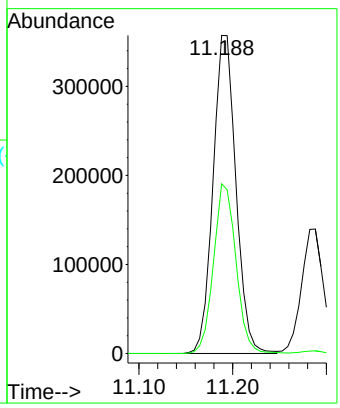




#59
2-Hexanone
Concen: 277.643 ug/l
RT: 11.188 min Scan# 15
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 43 Resp: 606740

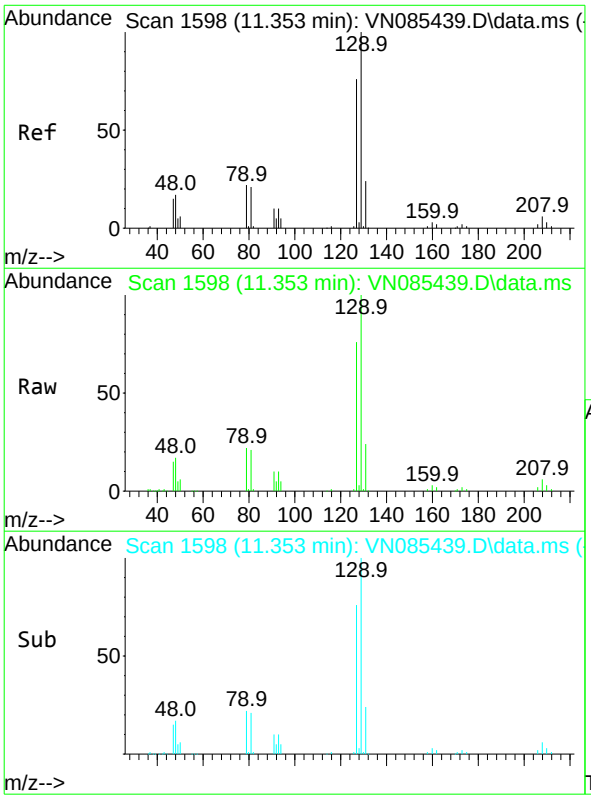
Ion	Ratio	Lower	Upper
43	100		
58	52.4	26.2	78.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

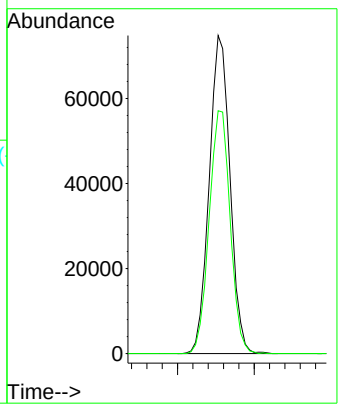
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

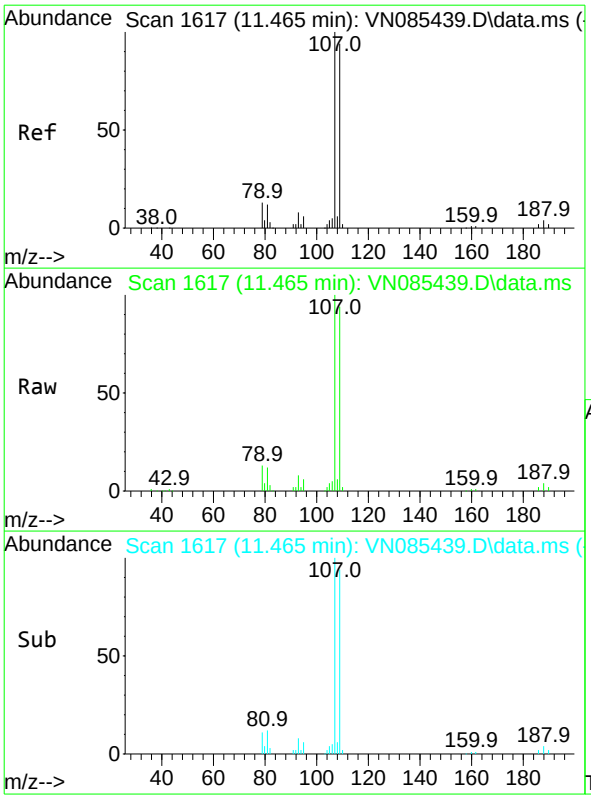


#60
Dibromochloromethane
Concen: 51.116 ug/l
RT: 11.353 min Scan# 1598
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion:129 Resp: 140704

Ion	Ratio	Lower	Upper
129	100		
127	77.2	38.6	115.8

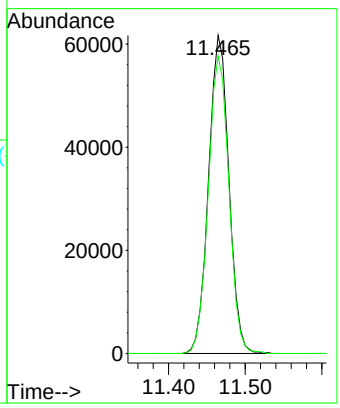




#61
1,2-Dibromoethane
Concen: 50.028 ug/l
RT: 11.465 min Scan# 16
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion:107 Resp: 113541

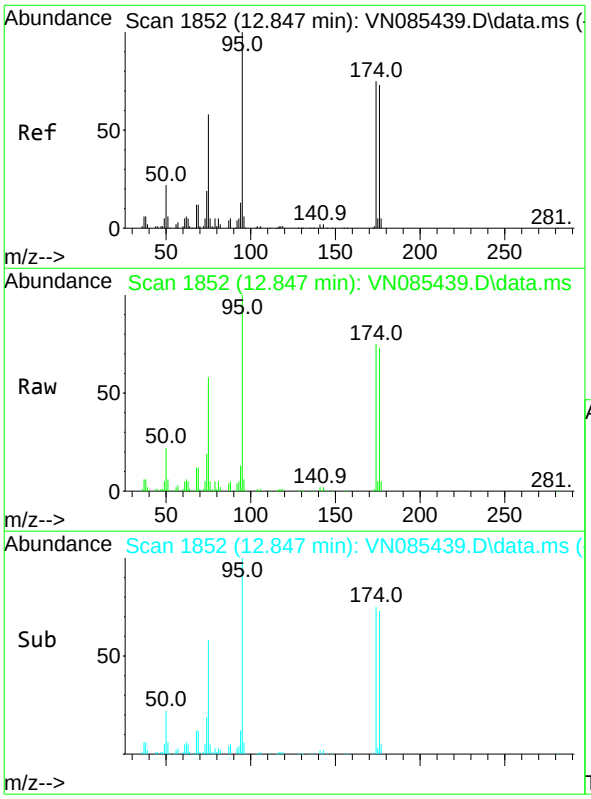
Ion	Ratio	Lower	Upper
107	100		
109	94.9	75.9	113.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

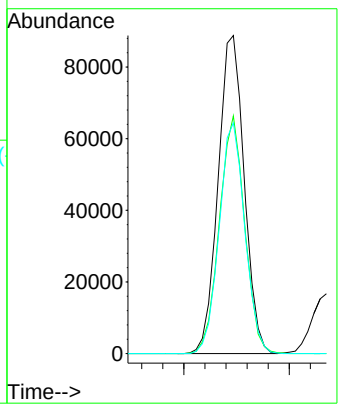
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

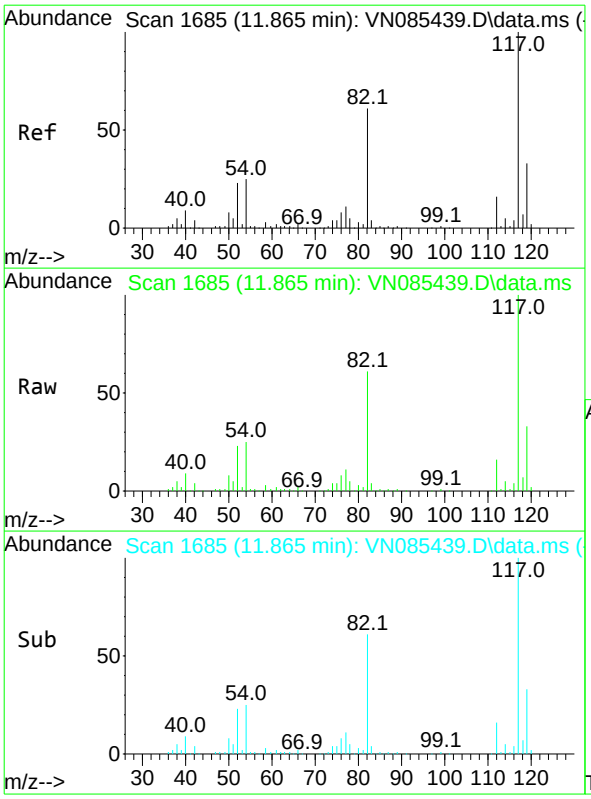


#62
4-Bromofluorobenzene
Concen: 53.239 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 95 Resp: 152568

Ion	Ratio	Lower	Upper
95	100		
174	72.5	0.0	145.0
176	71.2	0.0	142.4

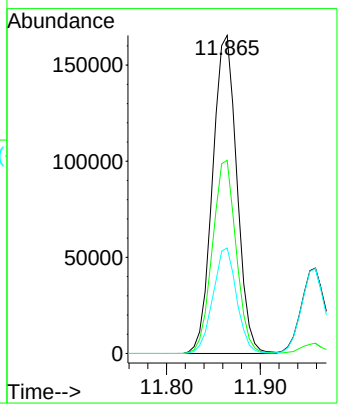




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 16
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion:117 Resp: 297366

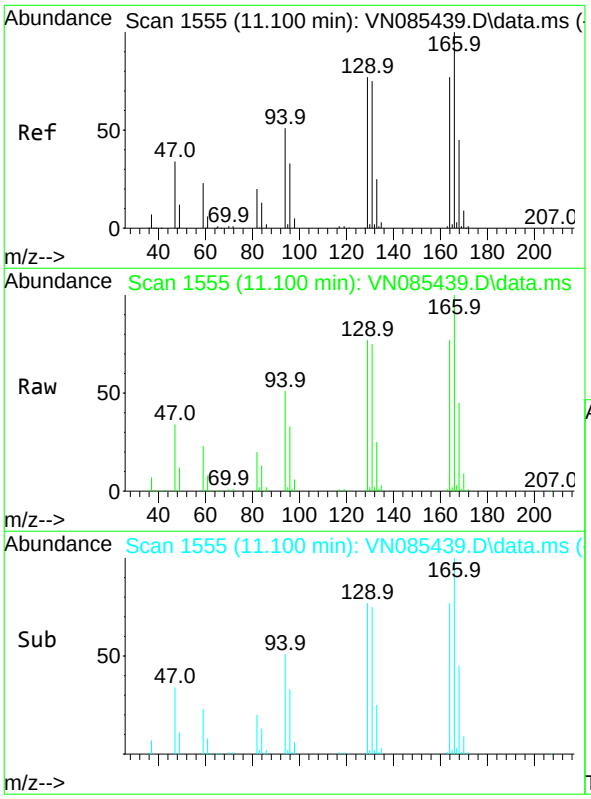
Ion	Ratio	Lower	Upper
117	100		
82	60.7	48.6	72.8
119	33.2	26.6	39.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

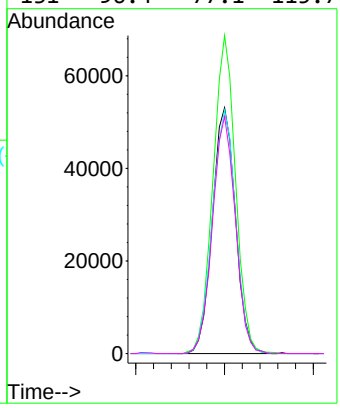
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

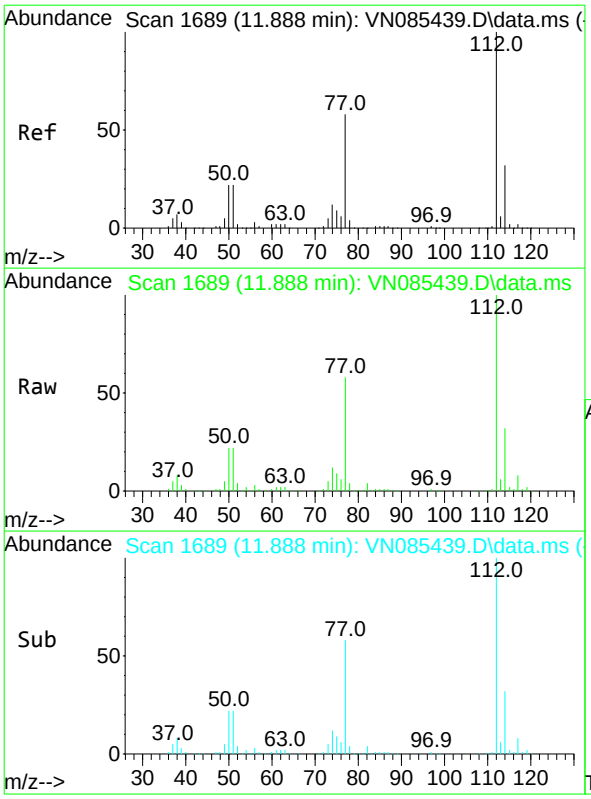


#64
Tetrachloroethene
Concen: 47.295 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion:164 Resp: 95879

Ion	Ratio	Lower	Upper
164	100		
166	129.3	103.4	155.2
129	99.0	79.2	118.8
131	96.4	77.1	115.7

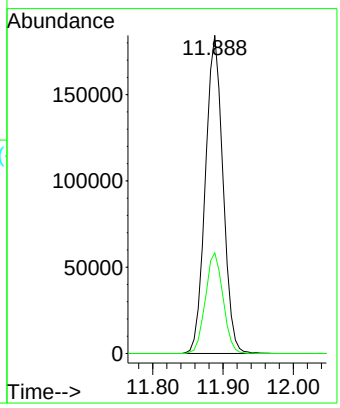




#65
Chlorobenzene
Concen: 49.121 ug/l
RT: 11.888 min Scan# 16
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion:112 Resp: 319992

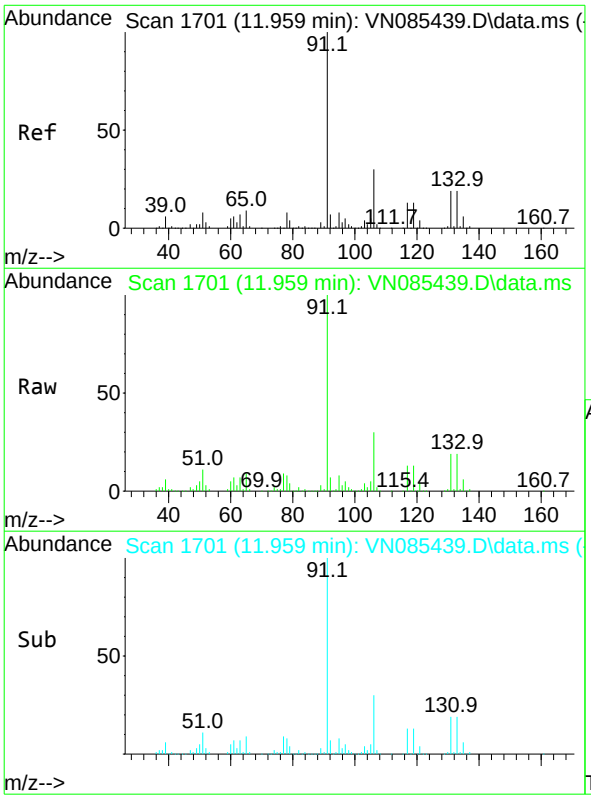
Ion	Ratio	Lower	Upper
112	100		
114	31.6	25.3	37.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

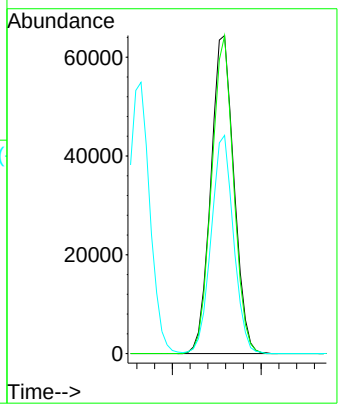
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

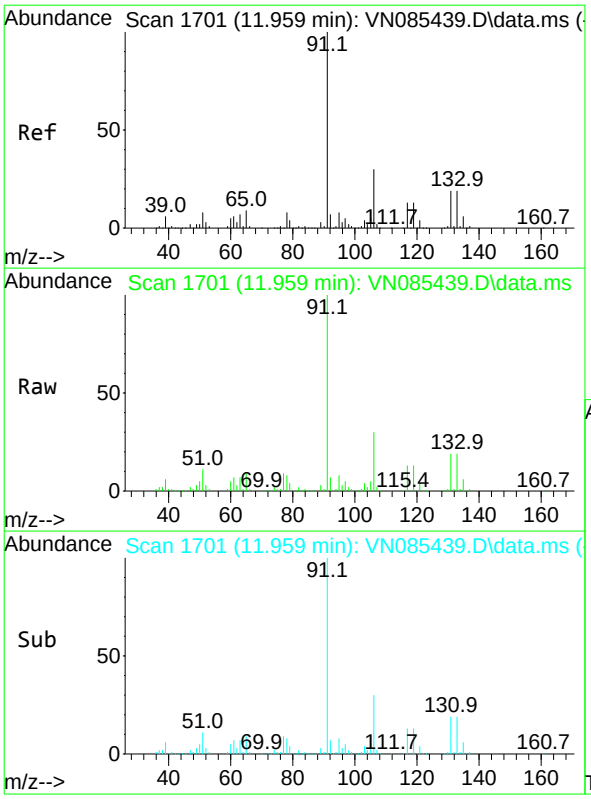


#66
1,1,1,2-Tetrachloroethane
Concen: 48.722 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion:131 Resp: 116488

Ion	Ratio	Lower	Upper
131	100		
133	94.9	47.4	142.3
119	66.3	33.1	99.5

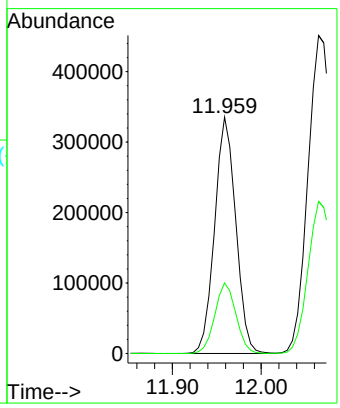




#67
Ethyl Benzene
Concen: 52.339 ug/l
RT: 11.959 min Scan# 17
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 91 Resp: 555322

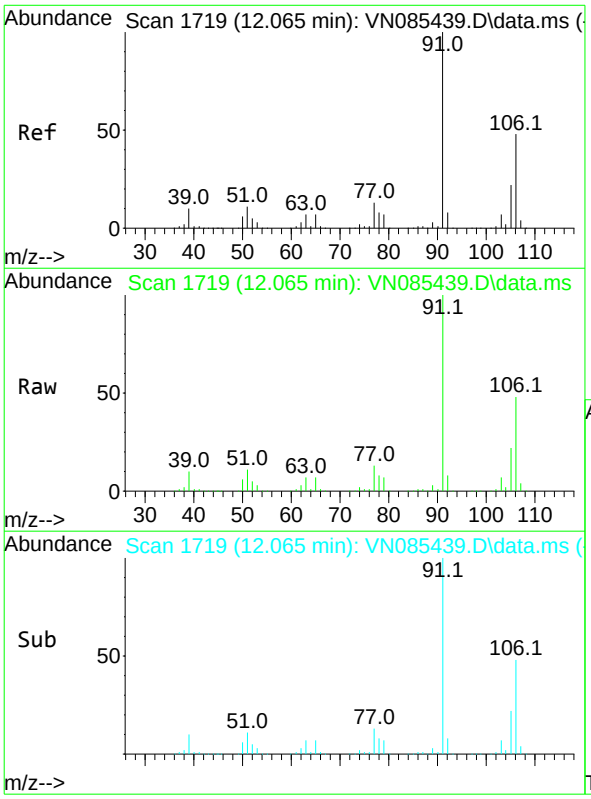
Ion	Ratio	Lower	Upper
91	100		
106	29.8	23.8	35.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

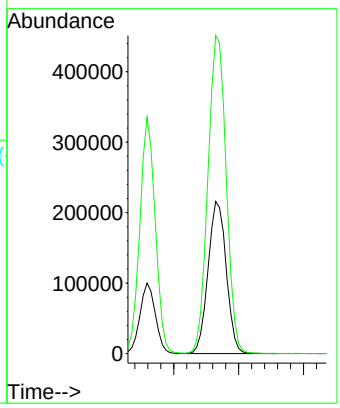
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

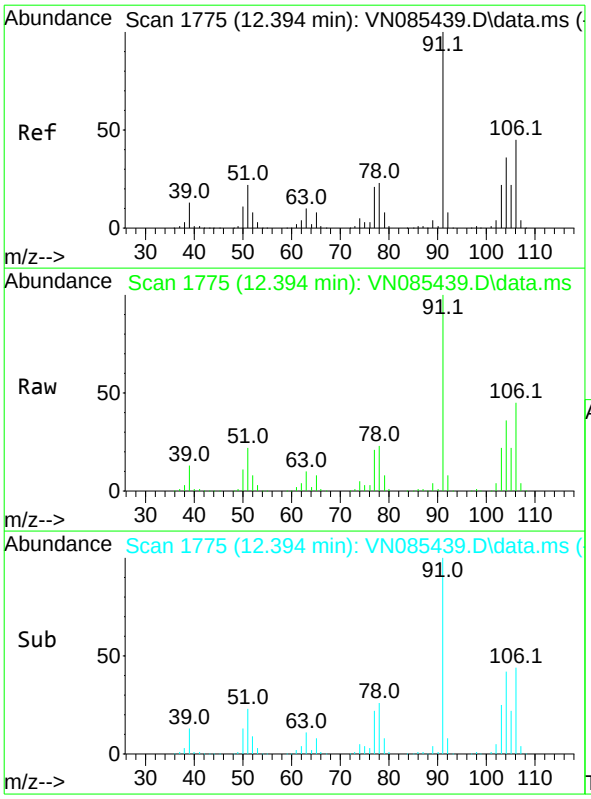


#68
m/p-Xylenes
Concen: 107.286 ug/l
RT: 12.065 min Scan# 1719
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion:106 Resp: 420702

Ion	Ratio	Lower	Upper
106	100		
91	209.6	167.7	251.5

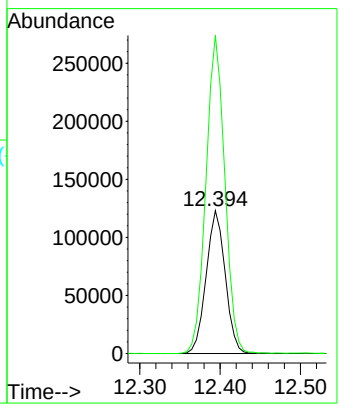




#69
o-Xylene
Concen: 54.062 ug/l
RT: 12.394 min Scan# 17
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion:106 Resp: 202597

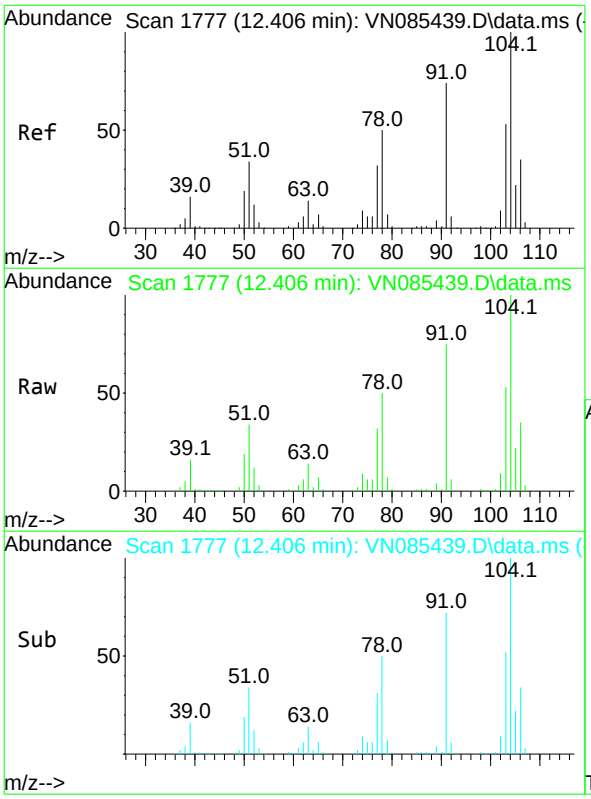
Ion	Ratio	Lower	Upper
106	100		
91	220.8	110.4	331.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

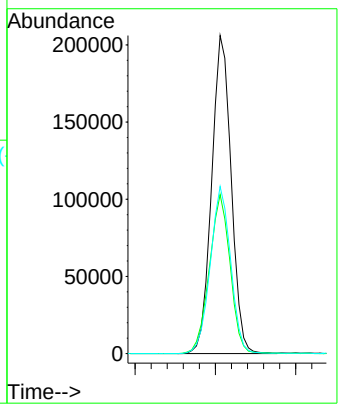
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

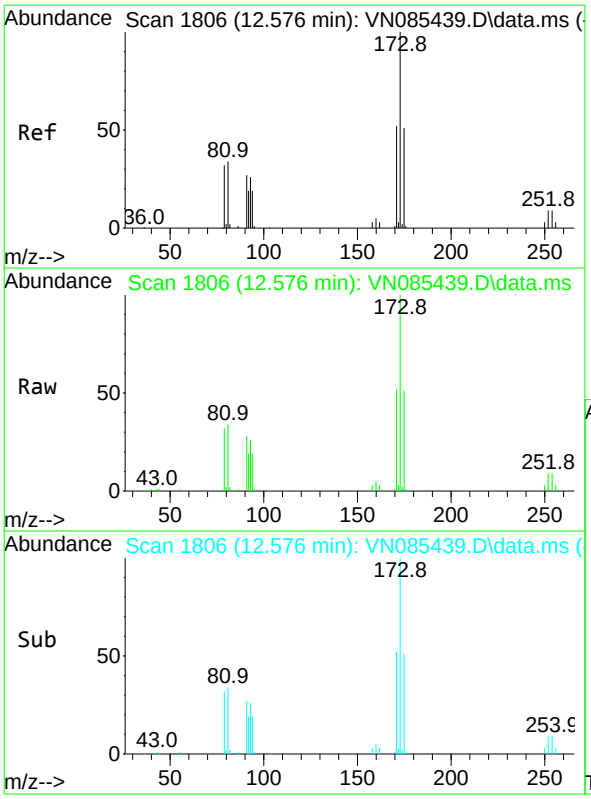


#70
Styrene
Concen: 56.227 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion:104 Resp: 348720

Ion	Ratio	Lower	Upper
104	100		
78	53.1	42.5	63.7
103	54.8	43.8	65.8

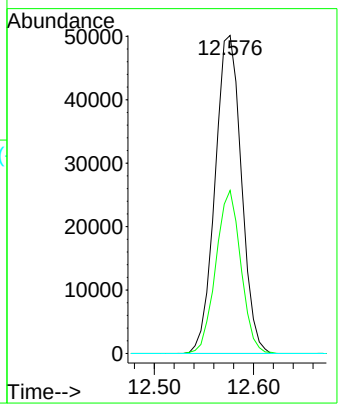




#71
Bromoform
Concen: 53.993 ug/l
RT: 12.576 min Scan# 18
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion:173 Resp: 92366

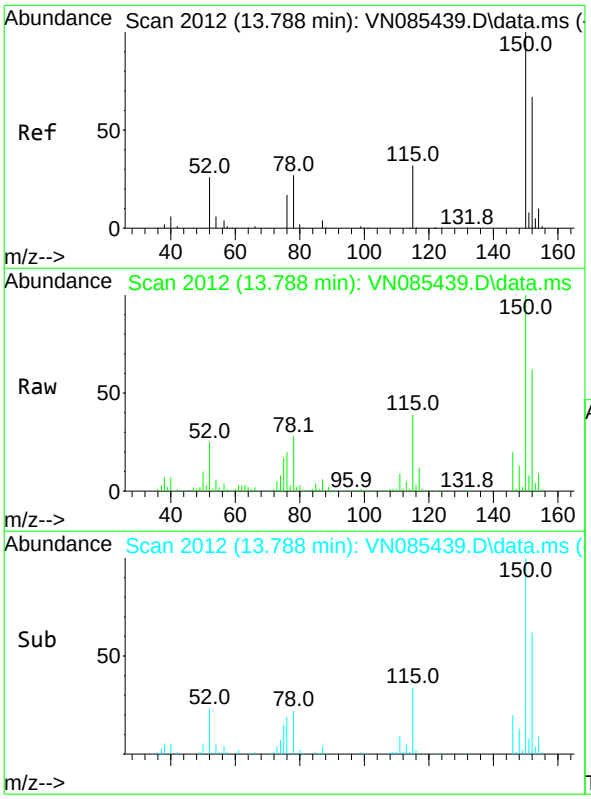
Ion	Ratio	Lower	Upper
173	100		
175	48.8	24.4	73.2
254	0.0	0.0	0.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

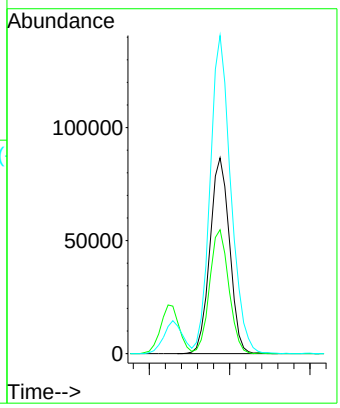
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

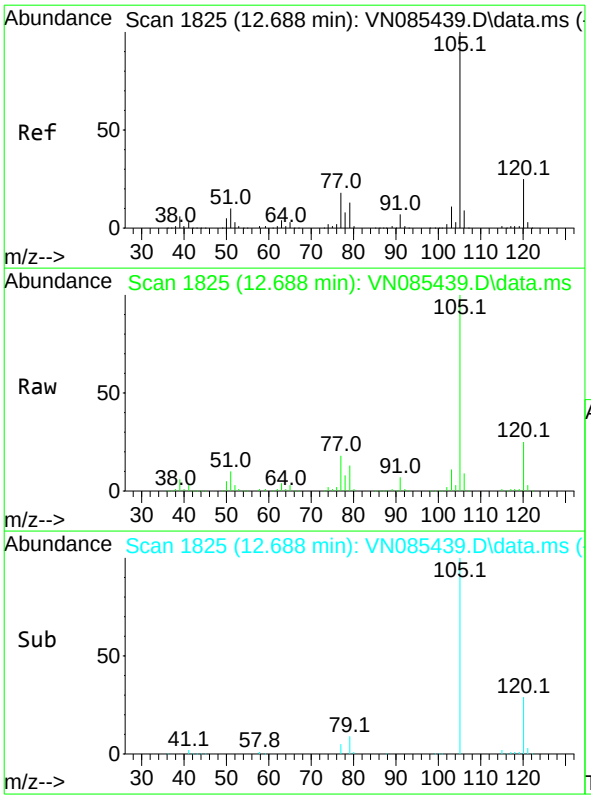


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion:152 Resp: 146624

Ion	Ratio	Lower	Upper
152	100		
115	62.2	31.1	93.3
150	171.8	0.0	343.6

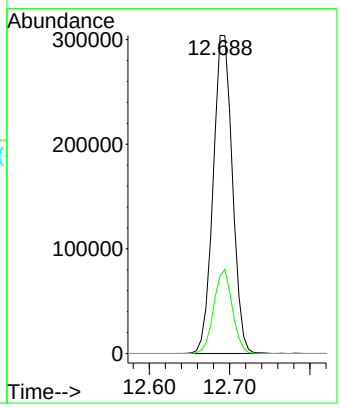




#73
Isopropylbenzene
Concen: 51.094 ug/l
RT: 12.688 min Scan# 18
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion:105 Resp: 505619

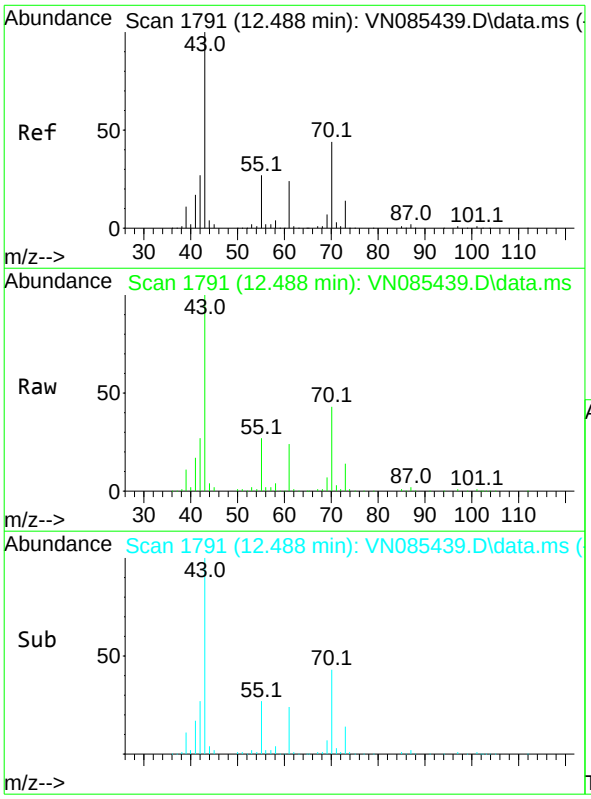
Ion	Ratio	Lower	Upper
105	100		
120	25.5	12.8	38.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

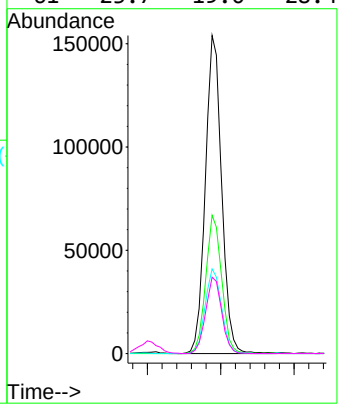
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

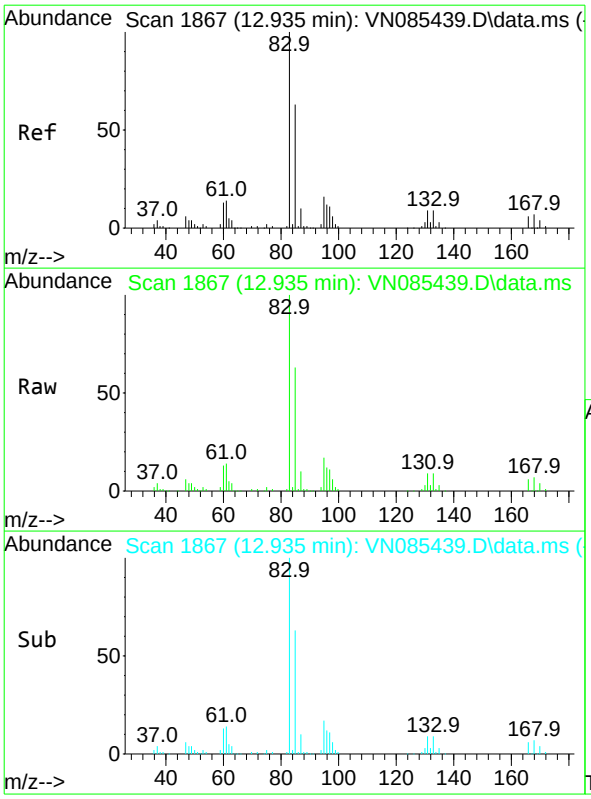


#74
N-amyl acetate
Concen: 53.478 ug/l
RT: 12.488 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 43 Resp: 237870

Ion	Ratio	Lower	Upper
43	100		
70	42.5	34.0	51.0
55	26.8	21.4	32.2
61	23.7	19.0	28.4

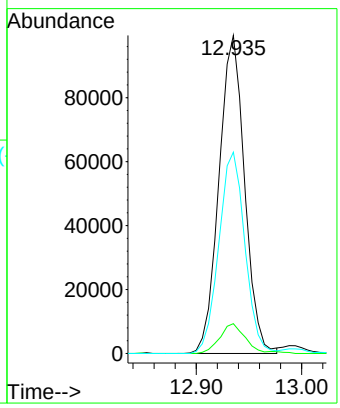




#75
1,1,2,2-Tetrachloroethane
Concen: 48.019 ug/l
RT: 12.935 min Scan# 18
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 83 Resp: 167856

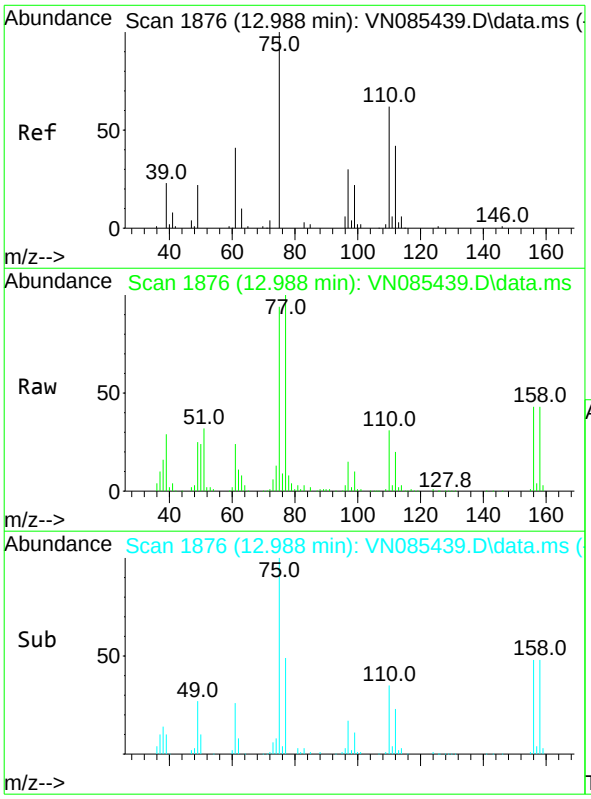
Ion	Ratio	Lower	Upper
83	100		
131	9.6	4.8	14.4
85	64.4	32.2	96.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

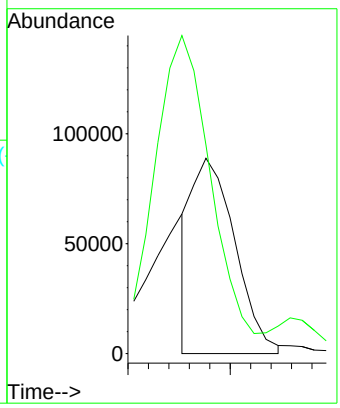
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

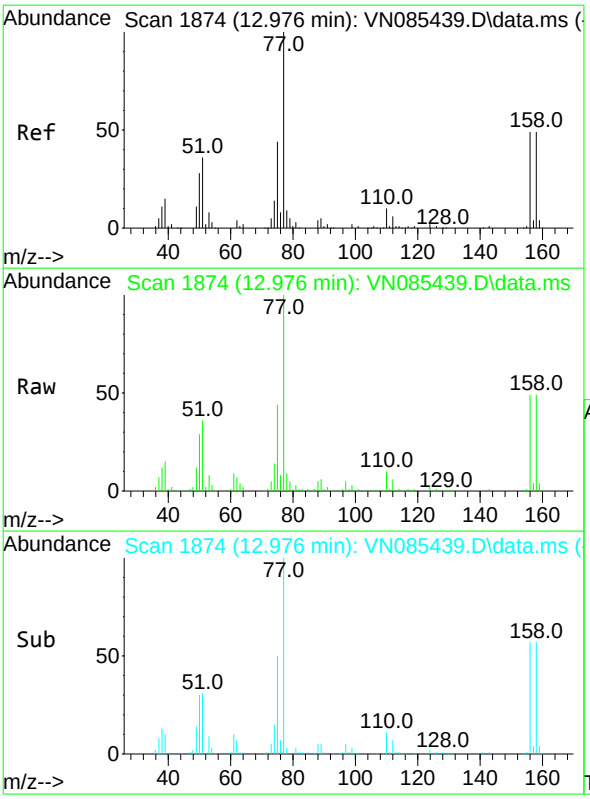


#76
1,2,3-Trichloropropane
Concen: 43.982 ug/l m
RT: 12.988 min Scan# 1876
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 75 Resp: 130866

Ion	Ratio	Lower	Upper
75	100		
77	219.5	109.7	329.2

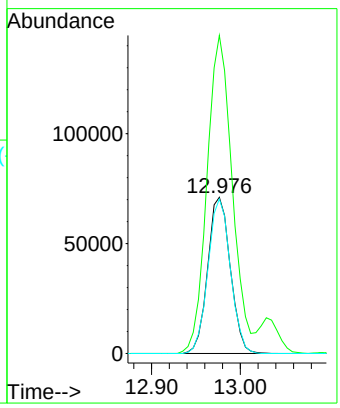




#77
Bromobenzene
Concen: 48.657 ug/l
RT: 12.976 min Scan# 18
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion:156 Resp: 125800

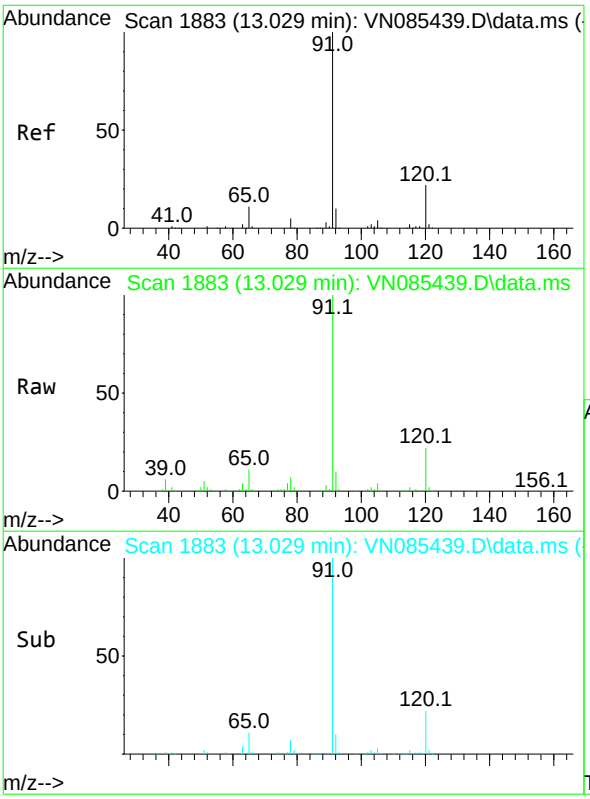
Ion	Ratio	Lower	Upper
156	100		
77	228.3	114.1	342.4
158	97.9	48.9	146.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

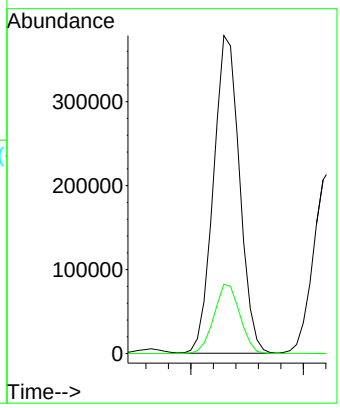
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

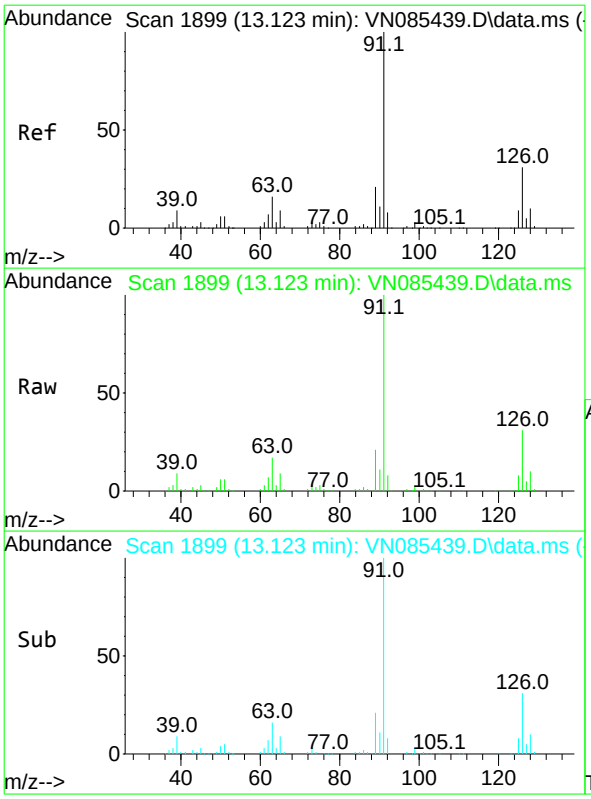


#78
n-propylbenzene
Concen: 51.986 ug/l
RT: 13.029 min Scan# 1883
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 91 Resp: 609022

Ion	Ratio	Lower	Upper
91	100		
120	21.7	10.9	32.6

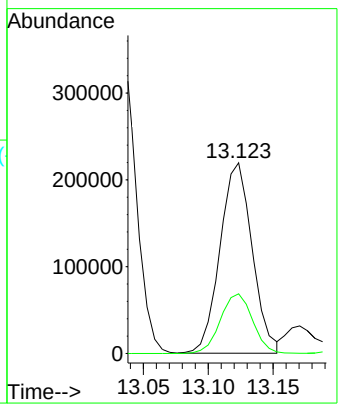




#79
2-Chlorotoluene
Concen: 49.985 ug/l
RT: 13.123 min Scan# 18
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 91 Resp: 378981

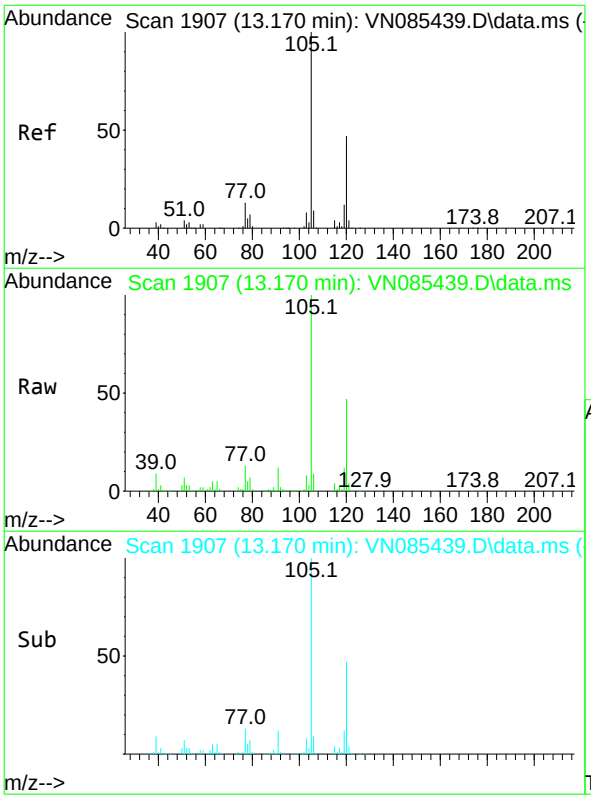
Ion	Ratio	Lower	Upper
91	100		
126	31.4	15.7	47.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

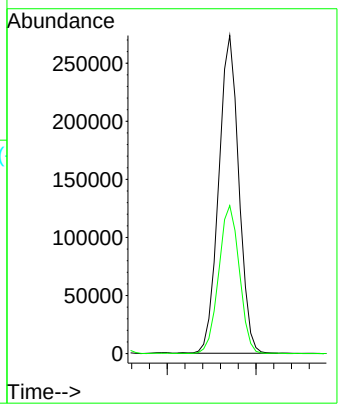
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

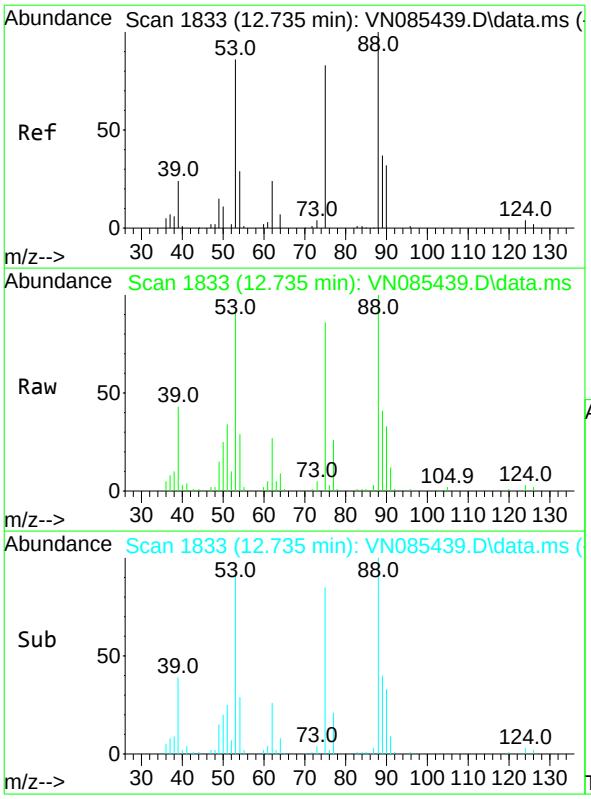


#80
1,3,5-Trimethylbenzene
Concen: 52.730 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion:105 Resp: 431021

Ion	Ratio	Lower	Upper
105	100		
120	47.8	23.9	71.7

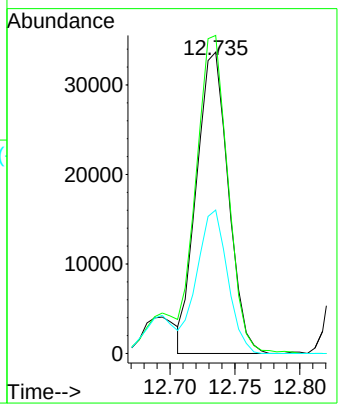




#81
trans-1,4-Dichloro-2-butene
Concen: 51.914 ug/l
RT: 12.735 min Scan# 18
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 75 Resp: 57184

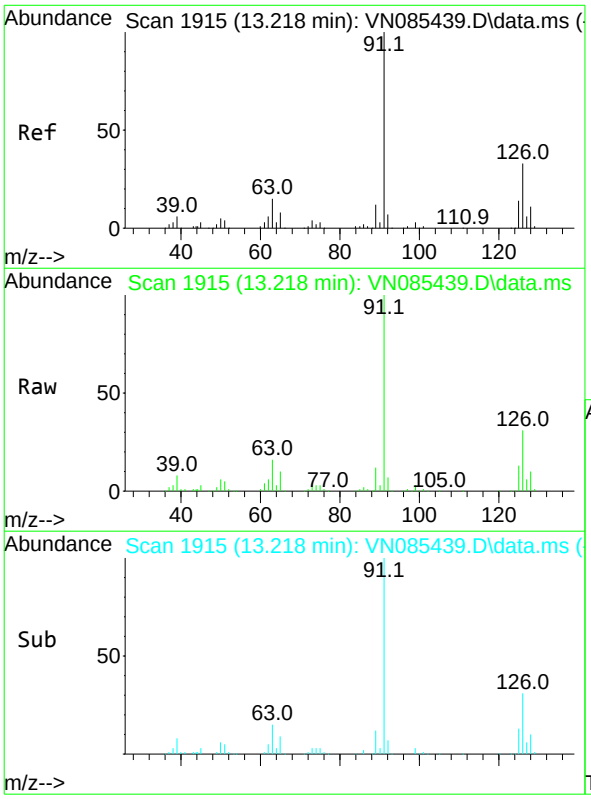
Ion	Ratio	Lower	Upper
75	100		
53	119.5	95.6	143.4
89	46.3	37.0	55.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

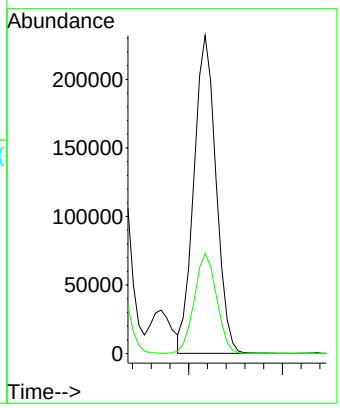
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

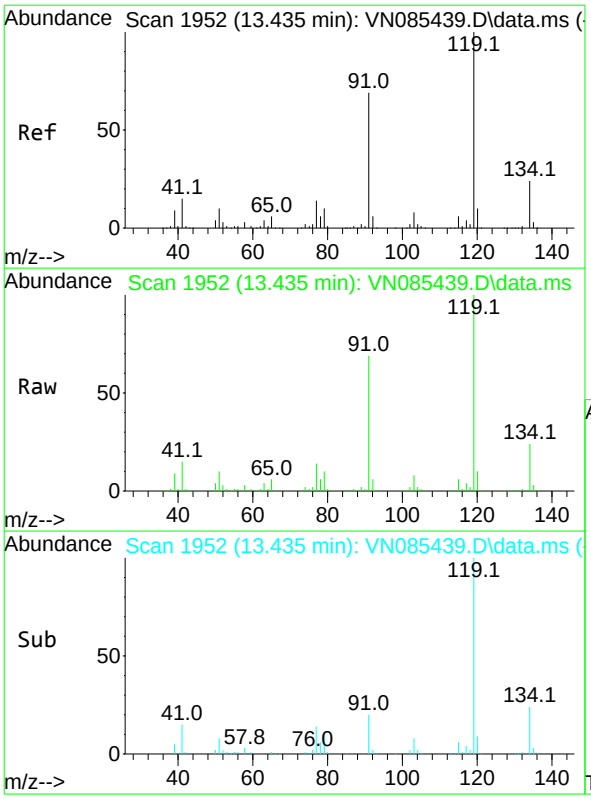


#82
4-Chlorotoluene
Concen: 50.273 ug/l
RT: 13.218 min Scan# 1915
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 91 Resp: 379524

Ion	Ratio	Lower	Upper
91	100		
126	31.8	15.9	47.7

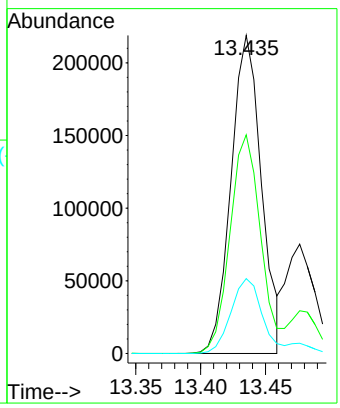




#83
tert-Butylbenzene
Concen: 52.090 ug/l
RT: 13.435 min Scan# 19
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion:119 Resp: 357563

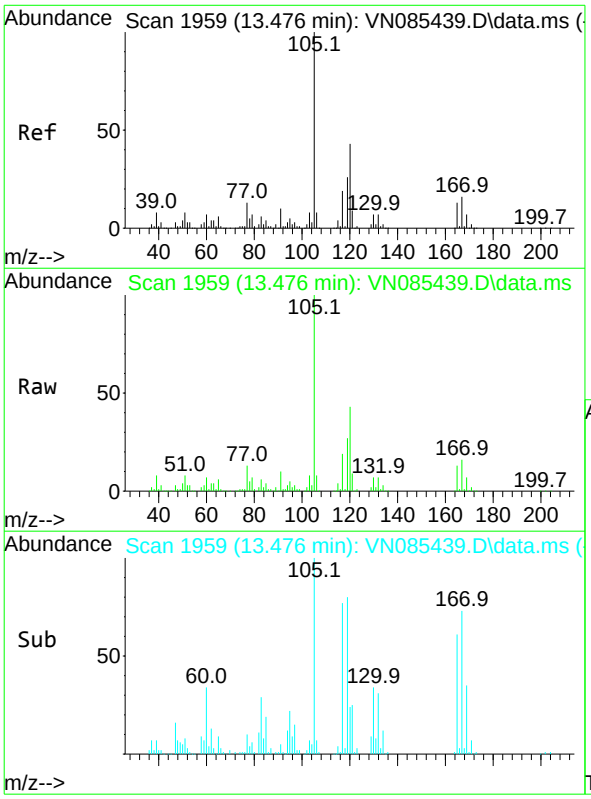
Ion	Ratio	Lower	Upper
119	100		
91	70.2	35.1	105.3
134	24.1	12.0	36.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

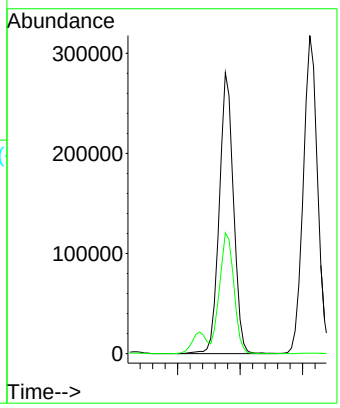
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

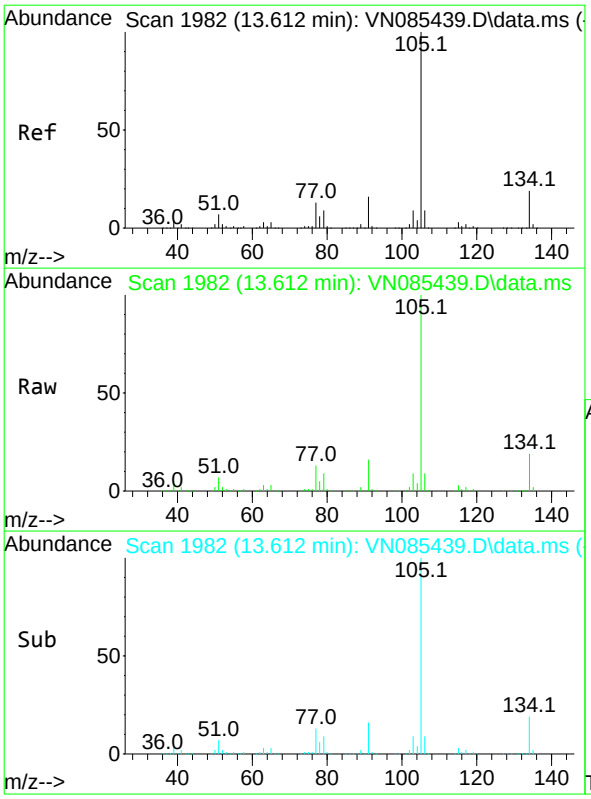


#84
1,2,4-Trimethylbenzene
Concen: 54.275 ug/l
RT: 13.476 min Scan# 1959
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion:105 Resp: 442175

Ion	Ratio	Lower	Upper
105	100		
120	43.3	21.6	65.0

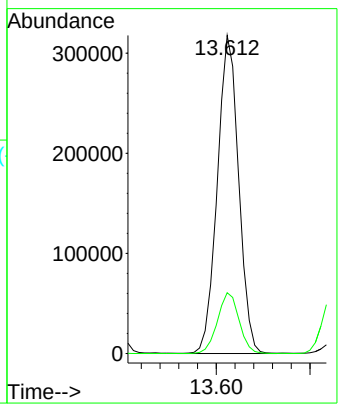




#85
sec-Butylbenzene
Concen: 52.719 ug/l
RT: 13.612 min Scan# 19
Delta R.T. -0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion:105 Resp: 501561

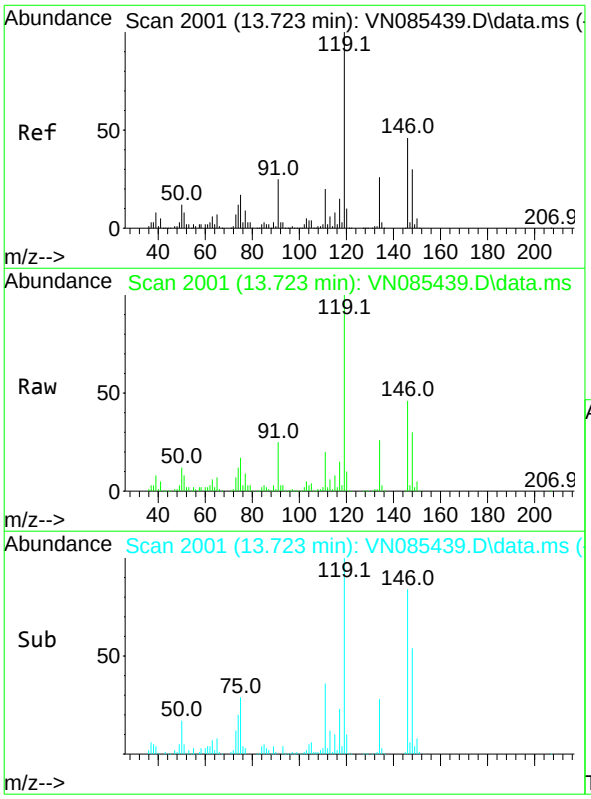
Ion	Ratio	Lower	Upper
105	100		
134	19.3	9.7	28.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

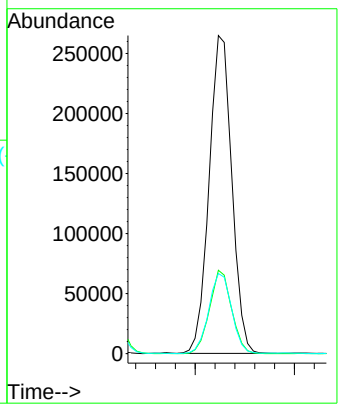
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

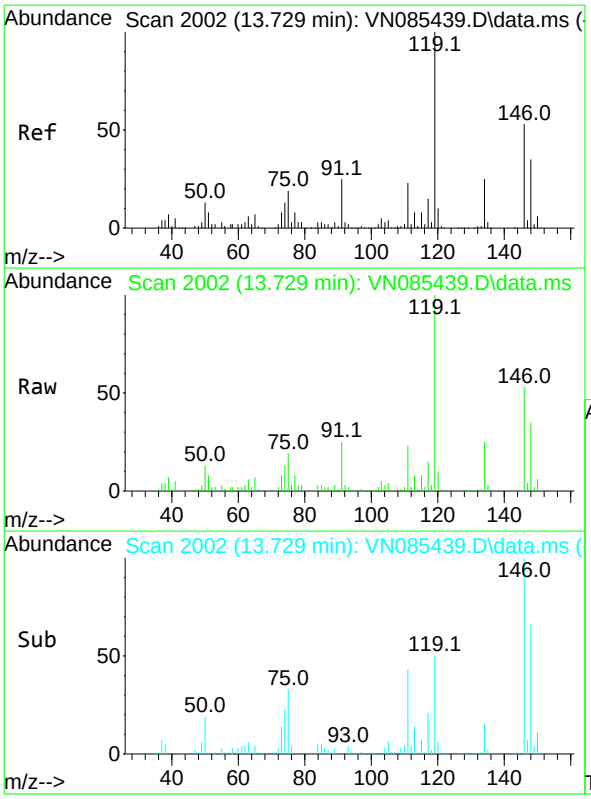


#86
p-Isopropyltoluene
Concen: 49.240 ug/l
RT: 13.723 min Scan# 2001
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion:119 Resp: 421052

Ion	Ratio	Lower	Upper
119	100		
134	25.3	12.7	38.0
91	25.4	12.7	38.1

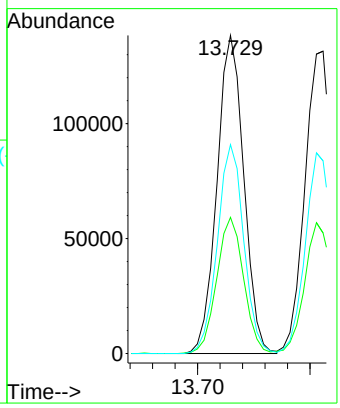




#87
1,3-Dichlorobenzene
Concen: 48.204 ug/l
RT: 13.729 min Scan# 20
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion:146 Resp: 229518

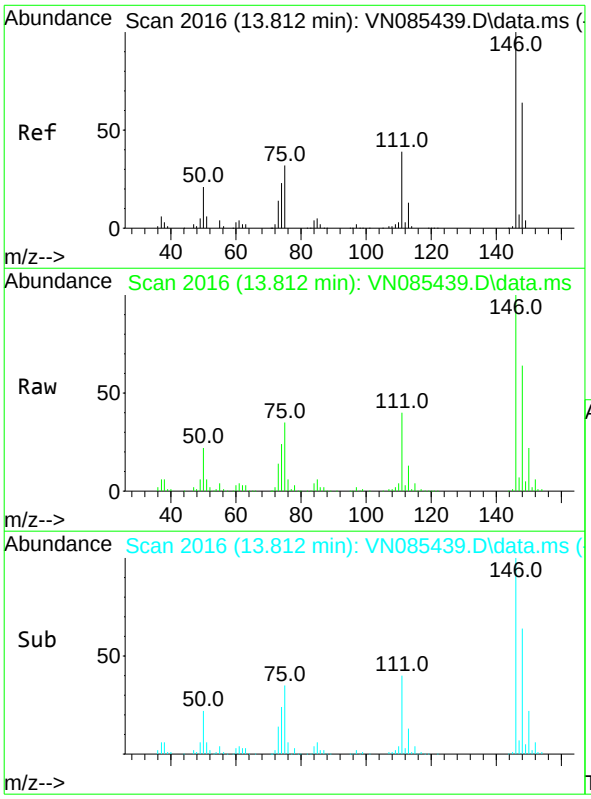
Ion	Ratio	Lower	Upper
146	100		
111	42.9	21.4	64.3
148	64.6	32.3	96.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

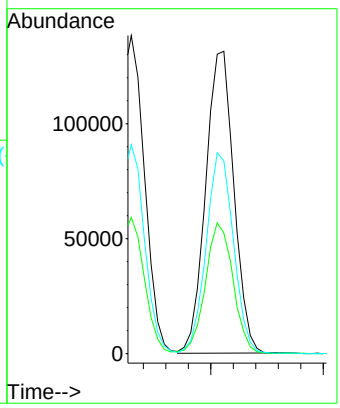
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

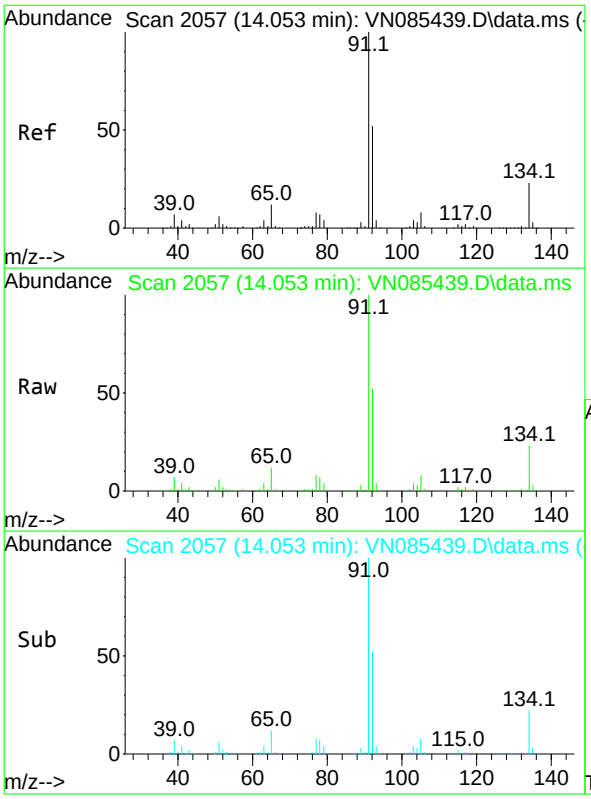


#88
1,4-Dichlorobenzene
Concen: 46.416 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion:146 Resp: 229084

Ion	Ratio	Lower	Upper
146	100		
111	42.5	21.3	63.7
148	64.7	32.4	97.0

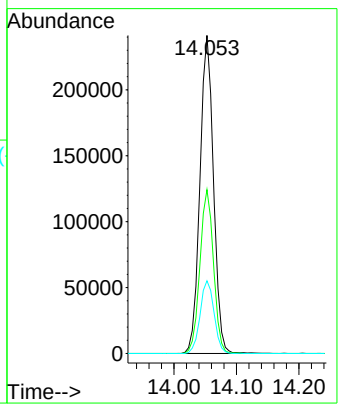




#89
n-Butylbenzene
Concen: 53.348 ug/l
RT: 14.053 min Scan# 20
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 91 Resp: 364111

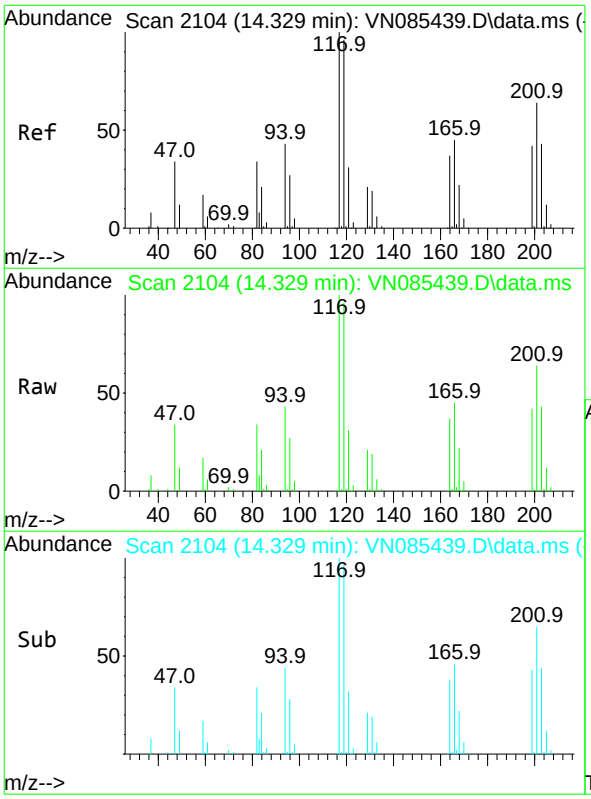
Ion	Ratio	Lower	Upper
91	100		
92	51.5	25.8	77.3
134	23.4	11.7	35.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

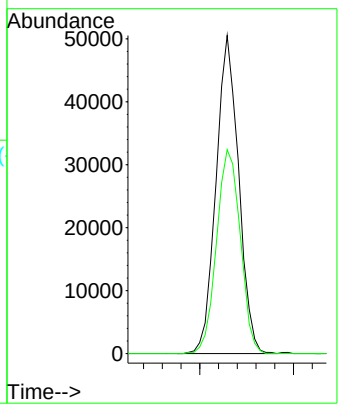
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

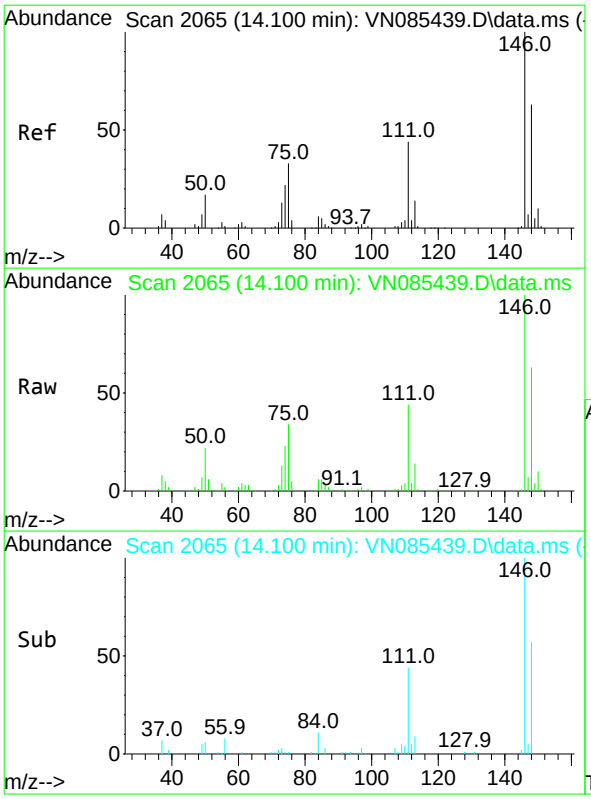


#90
Hexachloroethane
Concen: 46.712 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion:117 Resp: 84602

Ion	Ratio	Lower	Upper
117	100		
201	67.3	33.7	101.0

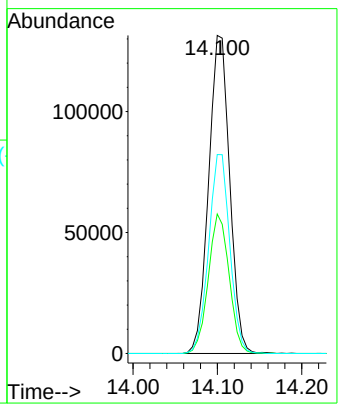




#91
1,2-Dichlorobenzene
Concen: 48.012 ug/l
RT: 14.100 min Scan# 20
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion:146 Resp: 228024

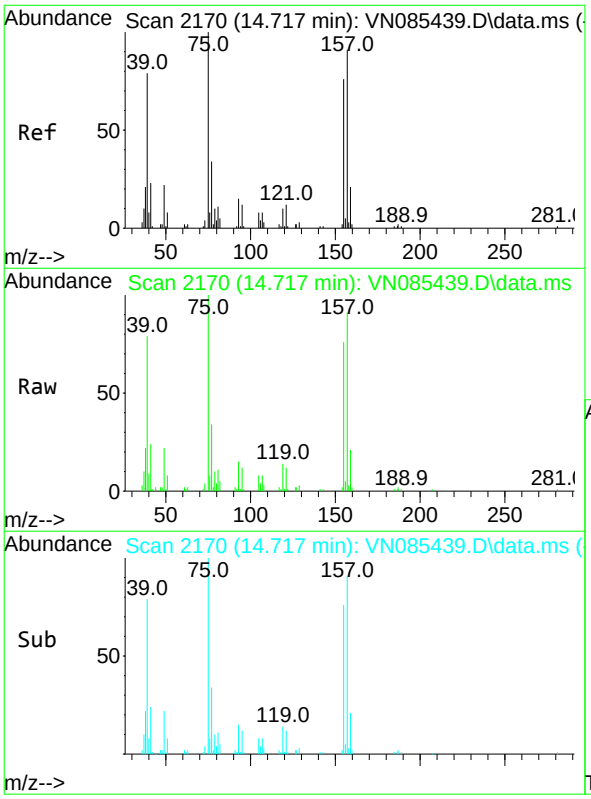
Ion	Ratio	Lower	Upper
146	100		
111	43.4	21.7	65.1
148	62.8	31.4	94.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

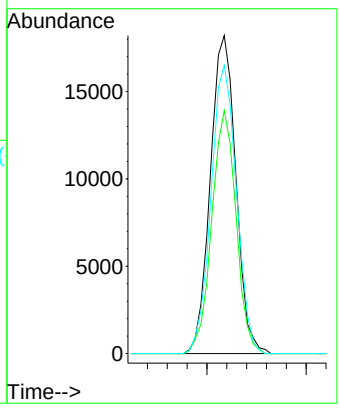
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

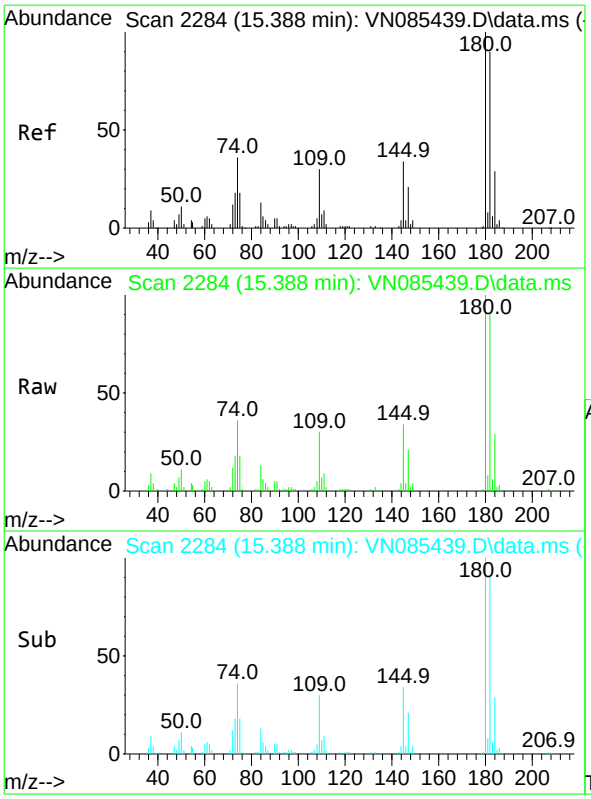


#92
1,2-Dibromo-3-Chloropropane
Concen: 50.971 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 75 Resp: 32536

Ion	Ratio	Lower	Upper
75	100		
155	72.8	36.4	109.2
157	90.7	45.4	136.1

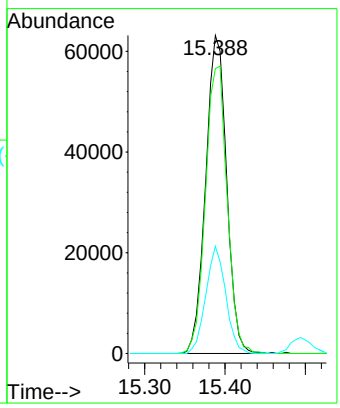




#93
1,2,4-Trichlorobenzene
Concen: 51.857 ug/l
RT: 15.388 min Scan# 22
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion:180 Resp: 114468

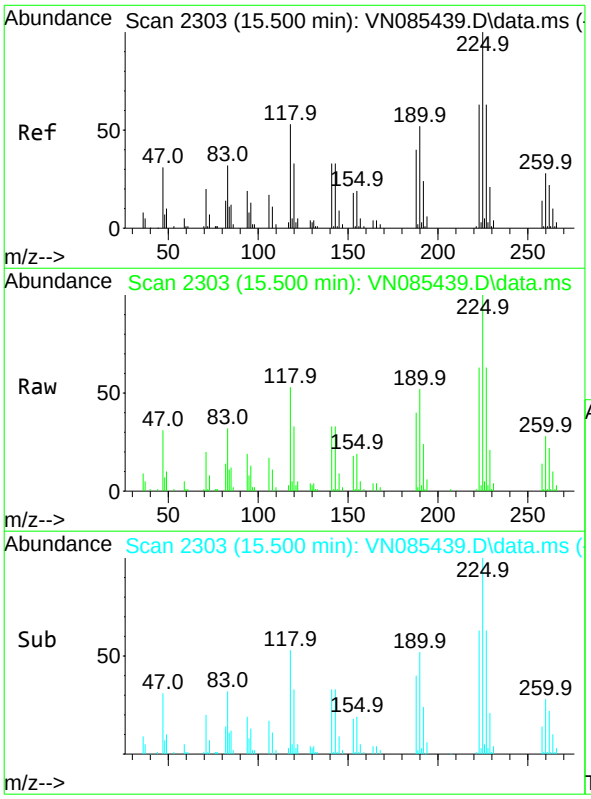
Ion	Ratio	Lower	Upper
180	100		
182	93.5	46.8	140.3
145	32.0	16.0	48.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

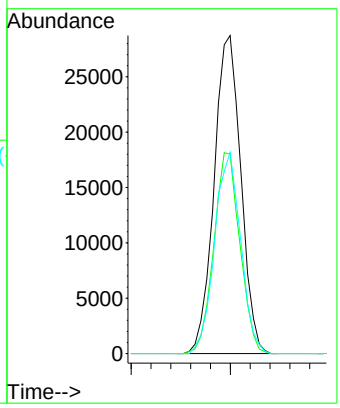
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

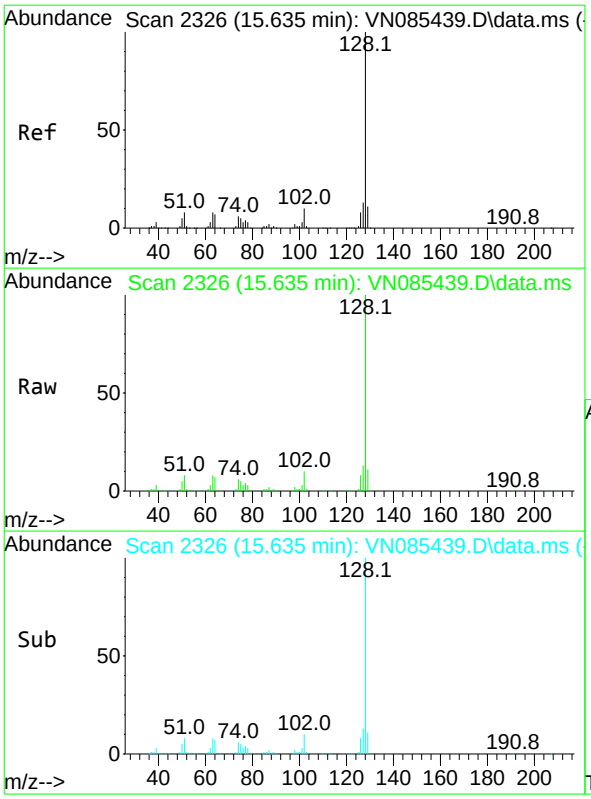


#94
Hexachlorobutadiene
Concen: 45.947 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion:225 Resp: 53846

Ion	Ratio	Lower	Upper
225	100		
223	61.4	30.7	92.1
227	61.7	30.9	92.5

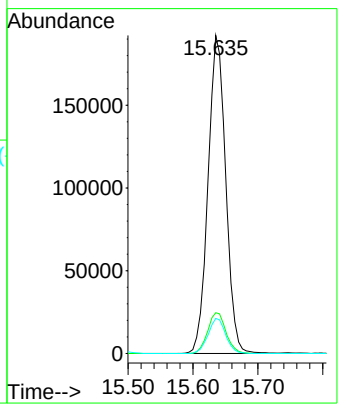




#95
Naphthalene
Concen: 55.243 ug/l
RT: 15.635 min Scan# 23
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion:128 Resp: 363882

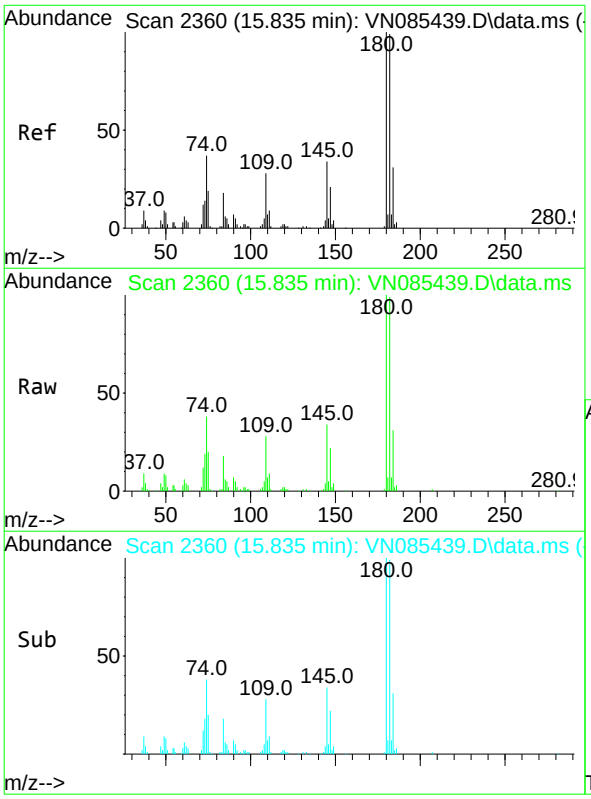
Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.6	16.0
129	11.0	8.8	13.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

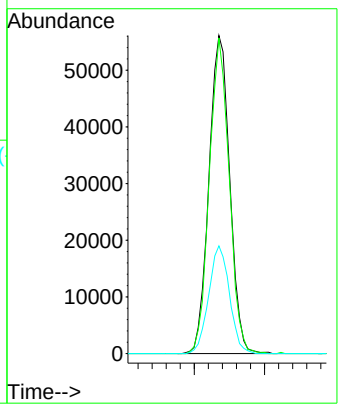
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#96
1,2,3-Trichlorobenzene
Concen: 51.601 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion:180 Resp: 115251

Ion	Ratio	Lower	Upper
180	100		
182	94.8	47.4	142.2
145	33.8	16.9	50.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085440.D
Acq On : 14 Jan 2025 15:43
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 15 01:43:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	200796	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	340593	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	296298	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	143526	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	60593	18.694	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	37.380%#		
35) Dibromofluoromethane	8.165	113	45655	19.322	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	38.640%#		
50) Toluene-d8	10.559	98	164391	19.581	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	39.160%#		
62) 4-Bromofluorobenzene	12.847	95	55798	19.430	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	38.860%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	54666	20.107	ug/l	98
3) Chloromethane	2.359	50	58426	19.848	ug/l	100
4) Vinyl Chloride	2.512	62	58403	19.739	ug/l	99
5) Bromomethane	2.954	94	36440	20.389	ug/l	94
6) Chloroethane	3.118	64	37594	20.041	ug/l	93
7) Trichlorofluoromethane	3.501	101	88121	20.526	ug/l	99
8) Diethyl Ether	3.965	74	29138	19.647	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.371	101	48933	20.237	ug/l	99
10) Methyl Iodide	4.589	142	56567	20.428	ug/l	93
11) Tert butyl alcohol	5.506	59	37984	102.342	ug/l	100
12) 1,1-Dichloroethene	4.342	96	44670	20.728	ug/l	95
13) Acrolein	4.171	56	49649	97.995	ug/l	99
14) Allyl chloride	5.024	41	67705	19.362	ug/l	96
15) Acrylonitrile	5.712	53	121626	103.171	ug/l	99
16) Acetone	4.424	43	101065	96.502	ug/l	96
17) Carbon Disulfide	4.712	76	132300	19.939	ug/l	98
18) Methyl Acetate	5.018	43	60873	19.115	ug/l	99
19) Methyl tert-butyl Ether	5.795	73	148847	21.272	ug/l	100
20) Methylene Chloride	5.271	84	52813	20.370	ug/l	97
21) trans-1,2-Dichloroethene	5.789	96	46115	20.023	ug/l	98
22) Diisopropyl ether	6.671	45	166719	21.480	ug/l	97
23) Vinyl Acetate	6.594	43	588567m	107.984	ug/l	
24) 1,1-Dichloroethane	6.565	63	96875	20.469	ug/l #	96
25) 2-Butanone	7.477	43	159952	103.786	ug/l	98
26) 2,2-Dichloropropane	7.483	77	79145	20.684	ug/l	99
27) cis-1,2-Dichloroethene	7.483	96	57454	21.180	ug/l	98
28) Bromochloromethane	7.812	49	41181	18.703	ug/l	99
29) Tetrahydrofuran	7.836	42	104792	107.247	ug/l	99
30) Chloroform	7.959	83	99655	20.374	ug/l	99
31) Cyclohexane	8.253	56	82980	20.173	ug/l	97
32) 1,1,1-Trichloroethane	8.165	97	87659	20.431	ug/l	98
36) 1,1-Dichloropropene	8.371	75	67949	20.490	ug/l	98
37) Ethyl Acetate	7.553	43	66443	19.850	ug/l	96
38) Carbon Tetrachloride	8.359	117	78842	20.767	ug/l	96
39) Methylcyclohexane	9.594	83	65012	20.862	ug/l	96
40) Benzene	8.600	78	207985	20.873	ug/l	99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085440.D
Acq On : 14 Jan 2025 15:43
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 15 01:43:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.771	41	36578	21.004	ug/l		99
42) 1,2-Dichloroethane	8.665	62	78402	20.891	ug/l		99
43) Isopropyl Acetate	8.683	43	109131	20.347	ug/l		98
44) Trichloroethene	9.347	130	48009	20.699	ug/l		96
45) 1,2-Dichloropropane	9.618	63	52833	20.758	ug/l		93
46) Dibromomethane	9.700	93	37721	20.540	ug/l		98
47) Bromodichloromethane	9.882	83	78918	21.093	ug/l		96
48) Methyl methacrylate	9.677	41	50224	20.808	ug/l		96
49) 1,4-Dioxane	9.688	88	17140	421.686	ug/l		95
51) 4-Methyl-2-Pentanone	10.441	43	336911	108.249	ug/l		100
52) Toluene	10.630	92	125172	21.680	ug/l		99
53) t-1,3-Dichloropropene	10.835	75	74129	20.965	ug/l		96
54) cis-1,3-Dichloropropene	10.306	75	81897	21.684	ug/l		99
55) 1,1,2-Trichloroethane	11.012	97	48039	21.025	ug/l		97
56) Ethyl methacrylate	10.871	69	70934	19.649	ug/l		99
57) 1,3-Dichloropropane	11.159	76	84210	21.196	ug/l		99
58) 2-Chloroethyl Vinyl ether	10.159	63	153681	105.991	ug/l		100
59) 2-Hexanone	11.194	43	240595	109.863	ug/l		98
60) Dibromochloromethane	11.353	129	56069	20.326	ug/l		96
61) 1,2-Dibromoethane	11.465	107	48465	21.309	ug/l		96
64) Tetrachloroethene	11.100	164	43243	21.408	ug/l		96
65) Chlorobenzene	11.888	112	136809	21.077	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.959	131	48370	20.304	ug/l		98
67) Ethyl Benzene	11.959	91	229978	21.753	ug/l		98
68) m/p-Xylenes	12.071	106	177755	45.494	ug/l		100
69) o-Xylene	12.394	106	84548	22.643	ug/l		98
70) Styrene	12.412	104	140581	22.749	ug/l		99
71) Bromoform	12.576	173	36961	21.683	ug/l	#	96
73) Isopropylbenzene	12.694	105	211354	21.819	ug/l		100
74) N-amyl acetate	12.494	43	94292	21.656	ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.935	83	68151	19.917	ug/l		99
76) 1,2,3-Trichloropropane	12.988	75	64180m	22.036	ug/l		
77) Bromobenzene	12.976	156	52022	20.556	ug/l		99
78) n-propylbenzene	13.035	91	252610	22.028	ug/l		100
79) 2-Chlorotoluene	13.123	91	158511	21.358	ug/l		100
80) 1,3,5-Trimethylbenzene	13.171	105	180294	22.533	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.735	75	22178m	20.569	ug/l		
82) 4-Chlorotoluene	13.218	91	161880	21.906	ug/l		100
83) tert-Butylbenzene	13.435	119	147541	21.958	ug/l		99
84) 1,2,4-Trimethylbenzene	13.482	105	183144	22.965	ug/l		99
85) sec-Butylbenzene	13.612	105	209133	22.457	ug/l		100
86) p-Isopropyltoluene	13.729	119	168888	21.661	ug/l		99
87) 1,3-Dichlorobenzene	13.729	146	97652	20.952	ug/l		100
88) 1,4-Dichlorobenzene	13.806	146	98321	20.351	ug/l		99
89) n-Butylbenzene	14.053	91	142673	21.355	ug/l		99
90) Hexachloroethane	14.329	117	35205	19.858	ug/l		98
91) 1,2-Dichlorobenzene	14.100	146	94954	20.425	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	12859	20.580	ug/l		100
93) 1,2,4-Trichlorobenzene	15.388	180	45878	21.233	ug/l		99
94) Hexachlorobutadiene	15.500	225	22719	19.805	ug/l		95
95) Naphthalene	15.635	128	134793	20.906	ug/l		99
96) 1,2,3-Trichlorobenzene	15.835	180	45468	20.797	ug/l		97

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085440.D
Acq On : 14 Jan 2025 15:43
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 15 01:43:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration

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

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

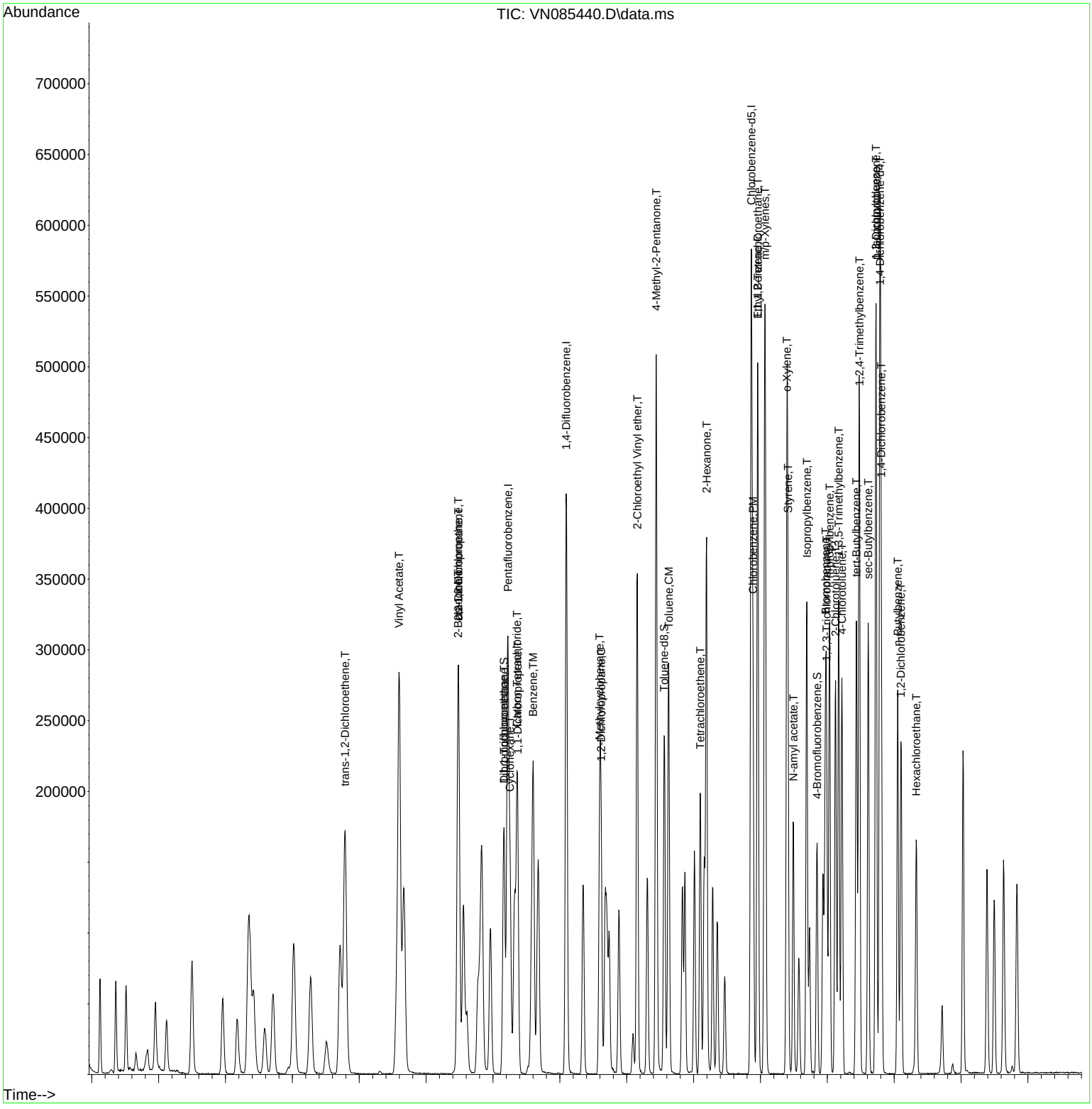
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085440.D
Acq On : 14 Jan 2025 15:43
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

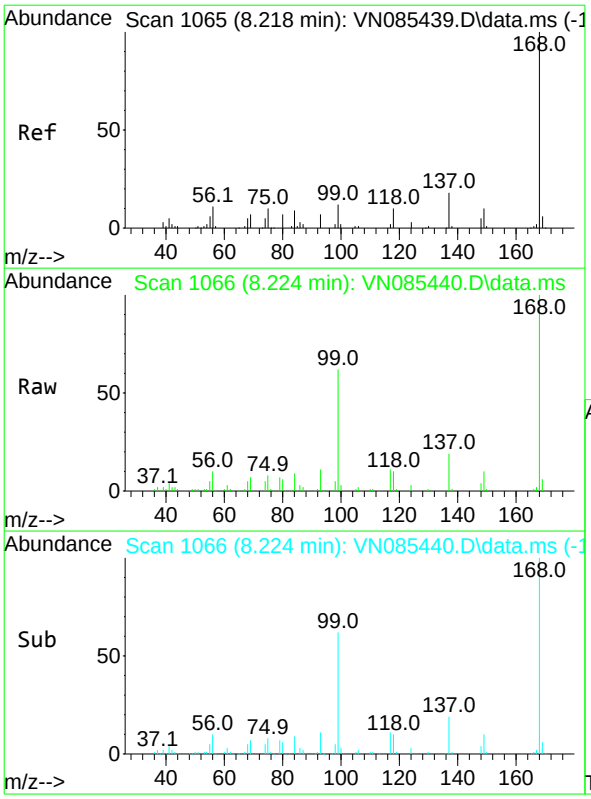
Quant Time: Jan 15 01:43:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

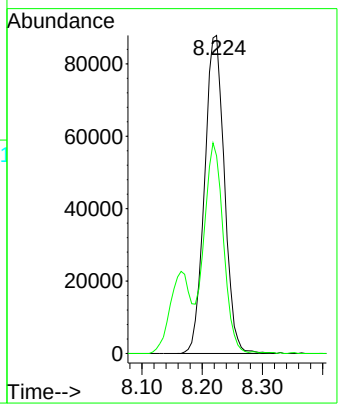




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:168 Resp: 200796

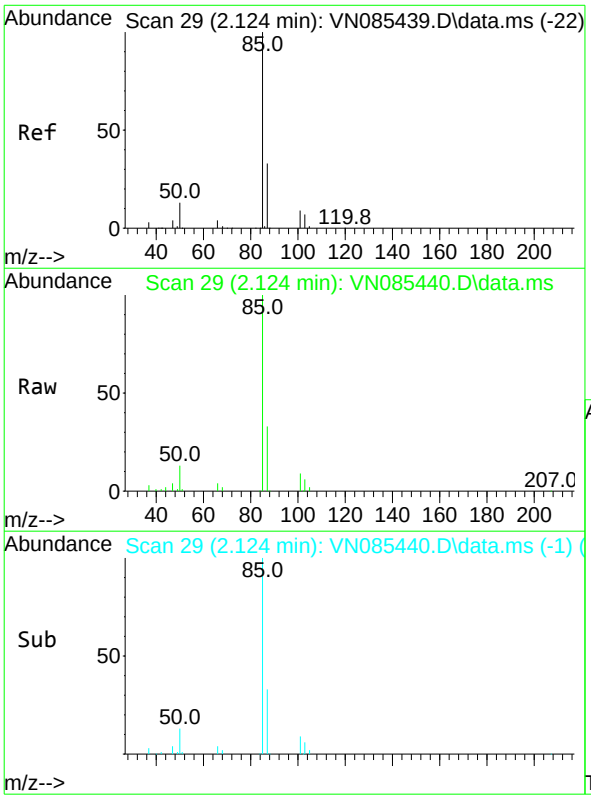
Ion	Ratio	Lower	Upper
168	100		
99	62.2	53.6	80.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

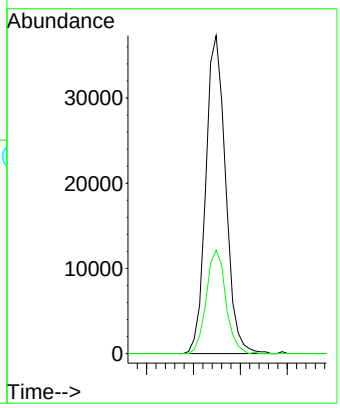
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

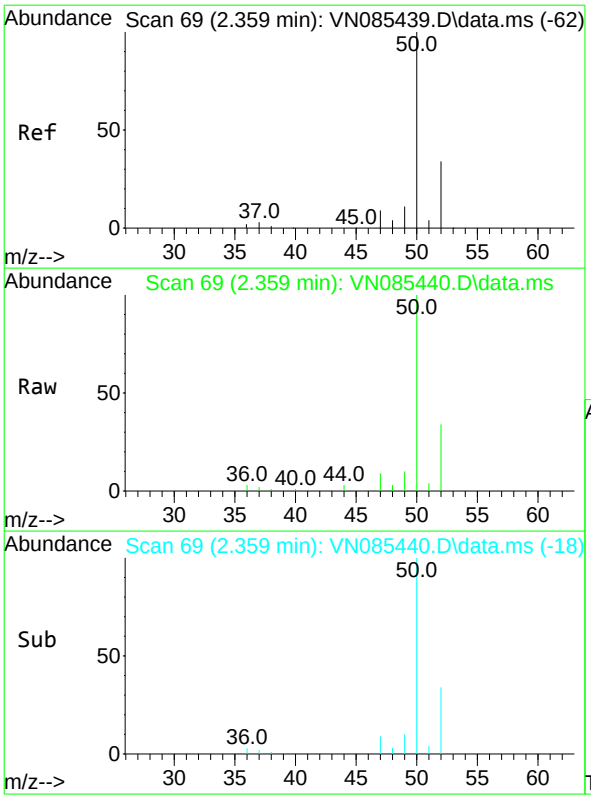


#2
Dichlorodifluoromethane
Concen: 20.107 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 85 Resp: 54666

Ion	Ratio	Lower	Upper
85	100		
87	32.5	16.7	50.1

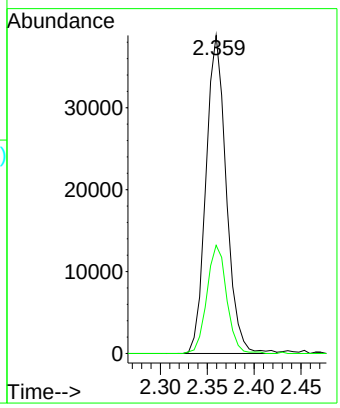




#3
Chloromethane
Concen: 19.848 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 50 Resp: 58426

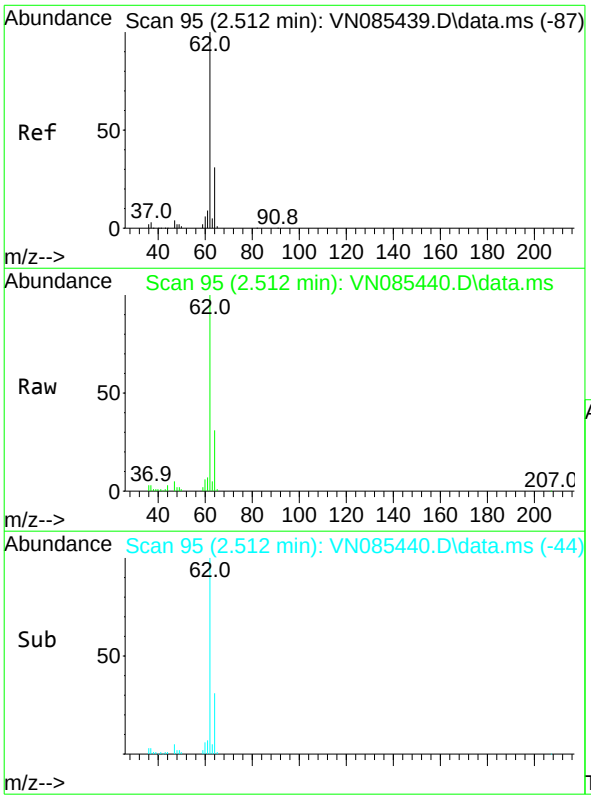
Ion	Ratio	Lower	Upper
50	100		
52	34.0	27.0	40.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

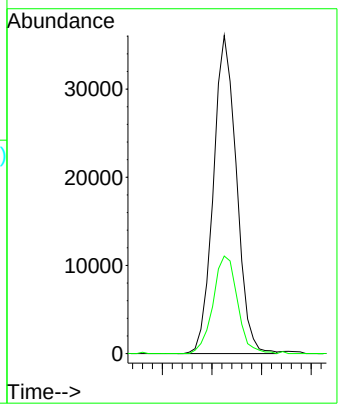
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

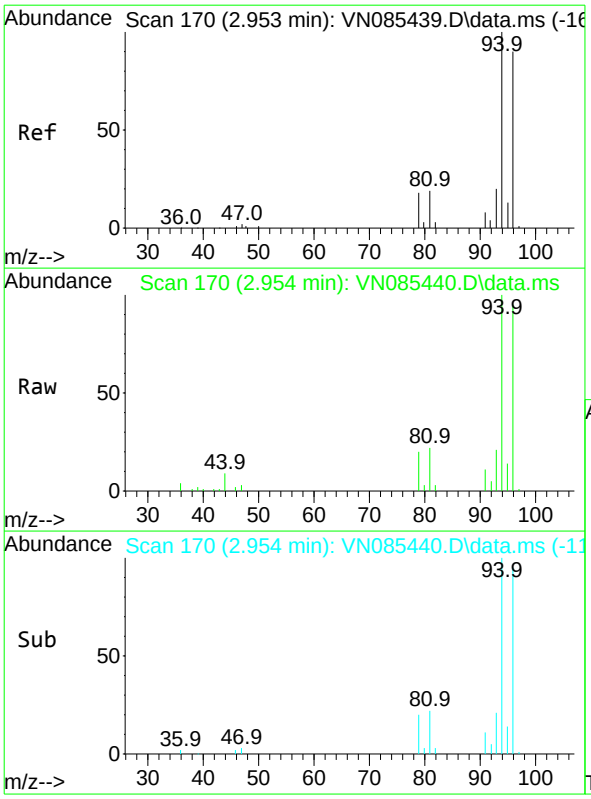


#4
Vinyl Chloride
Concen: 19.739 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 62 Resp: 58403

Ion	Ratio	Lower	Upper
62	100		
64	30.7	24.8	37.2

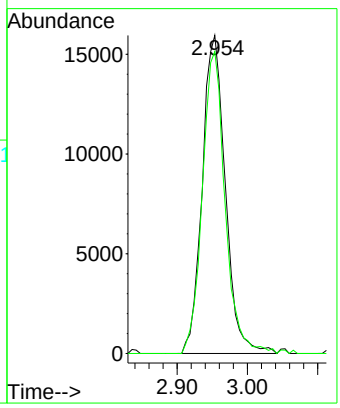




#5
Bromomethane
Concen: 20.389 ug/l
RT: 2.954 min Scan# 17
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 94 Resp: 36440

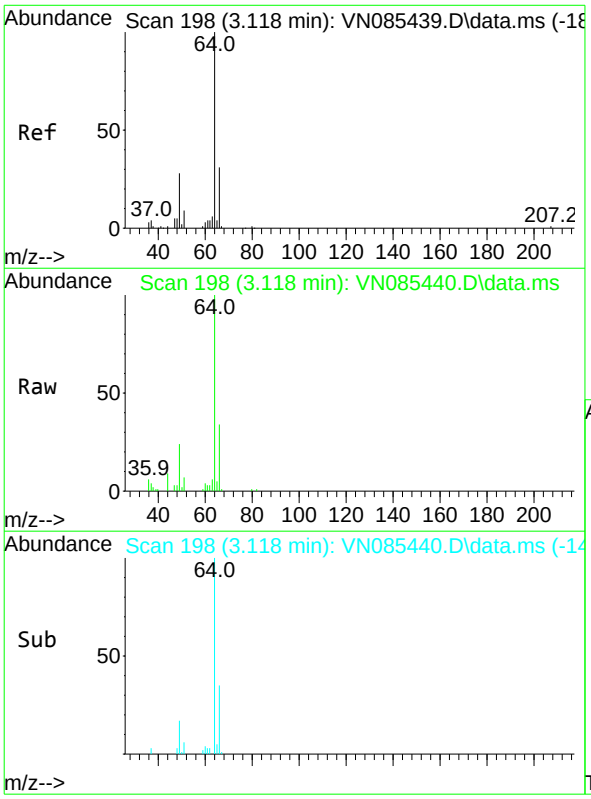
Ion	Ratio	Lower	Upper
94	100		
96	94.9	71.8	107.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

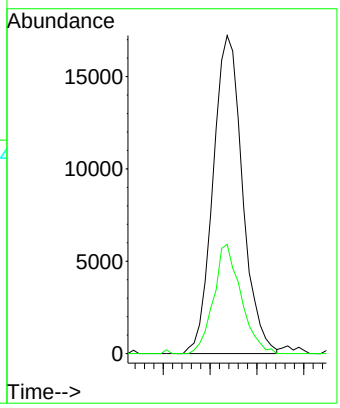
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

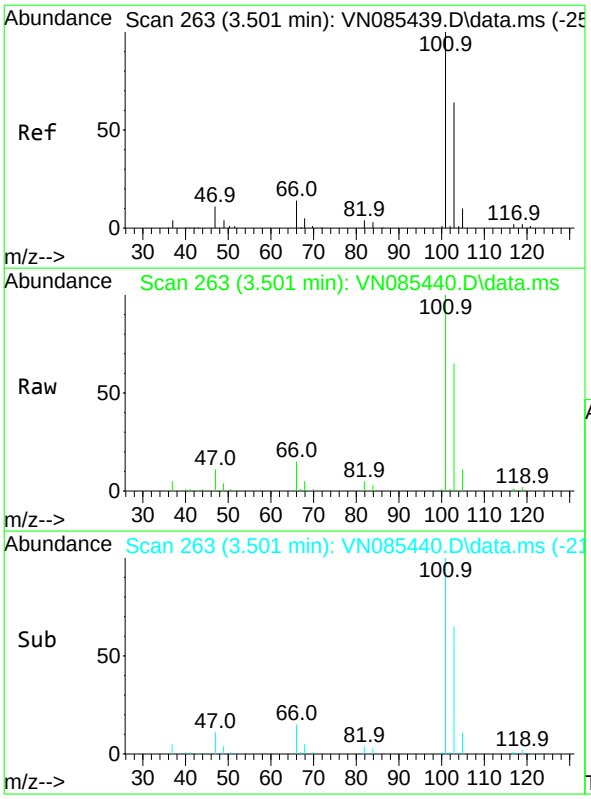


#6
Chloroethane
Concen: 20.041 ug/l
RT: 3.118 min Scan# 198
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 64 Resp: 37594

Ion	Ratio	Lower	Upper
64	100		
66	34.3	24.6	36.8

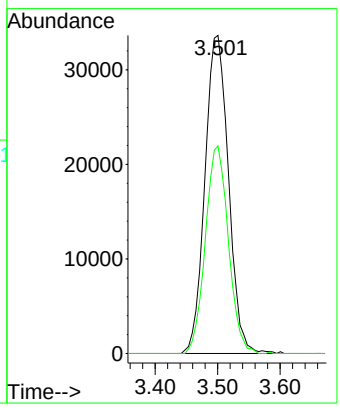




#7
Trichlorofluoromethane
Concen: 20.526 ug/l
RT: 3.501 min Scan# 26
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:101 Resp: 88121

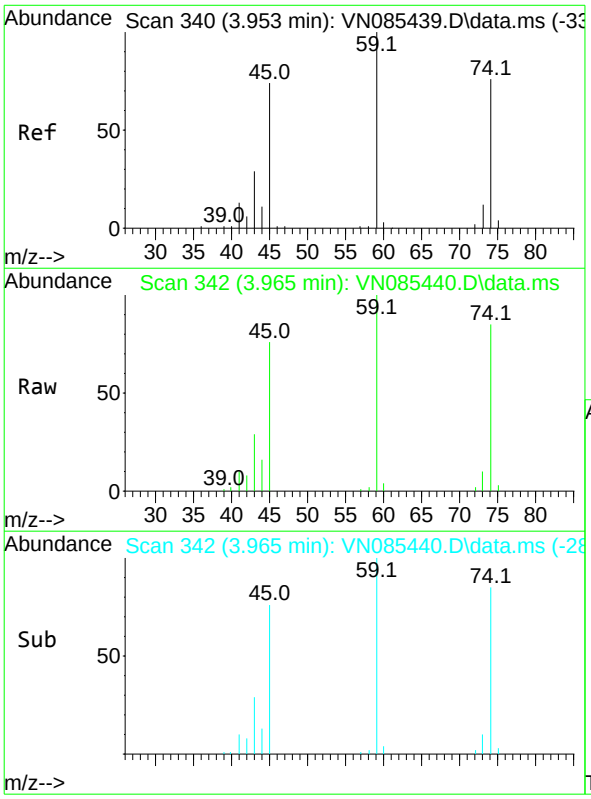
Ion	Ratio	Lower	Upper
101	100		
103	65.3	51.4	77.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

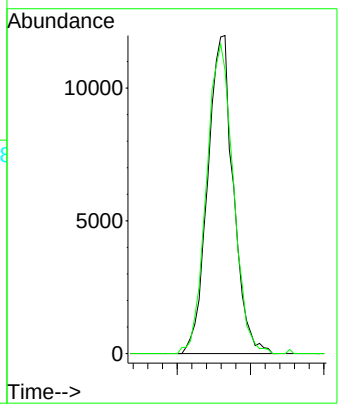
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

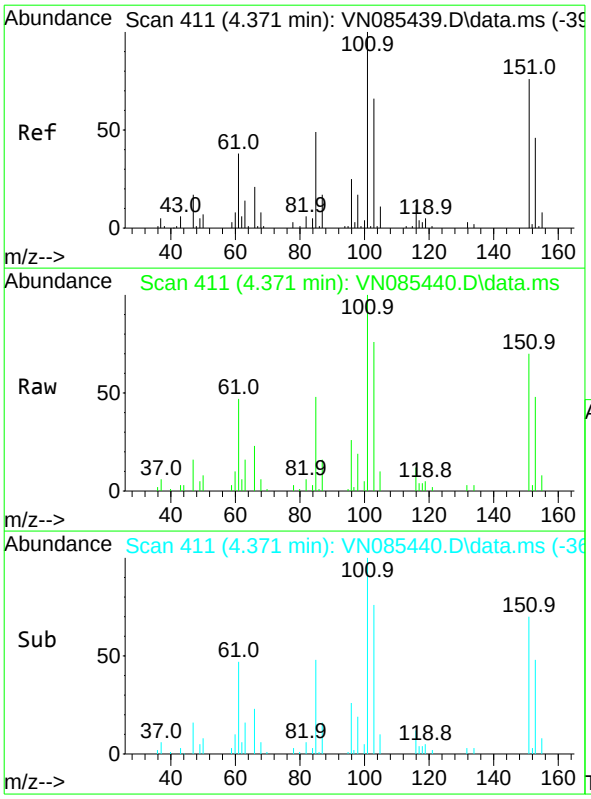


#8
Diethyl Ether
Concen: 19.647 ug/l
RT: 3.965 min Scan# 342
Delta R.T. 0.012 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 74 Resp: 29138

Ion	Ratio	Lower	Upper
74	100		
45	101.8	49.7	149.1

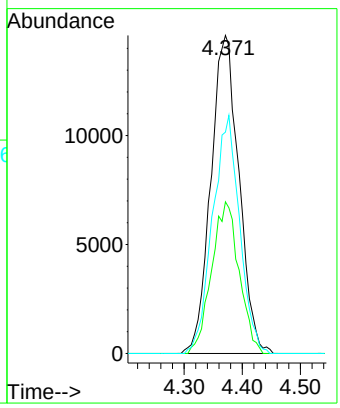




#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.237 ug/l
RT: 4.371 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:101 Resp: 48933

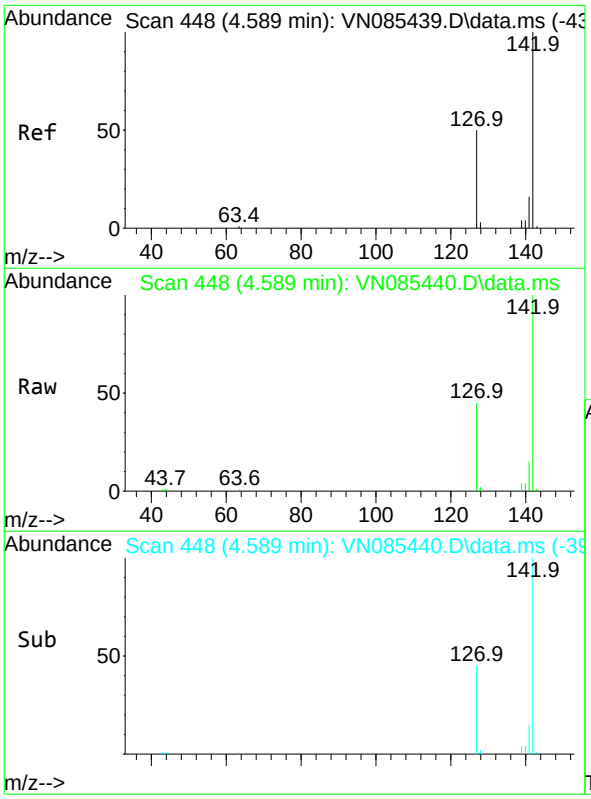
Ion	Ratio	Lower	Upper
101	100		
85	46.6	37.8	56.8
151	72.1	58.8	88.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

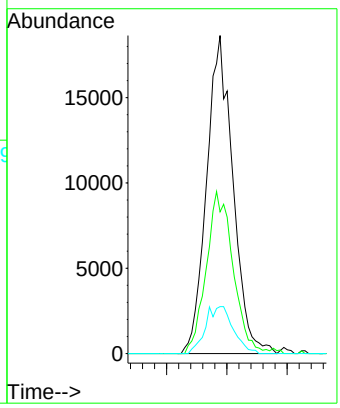
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

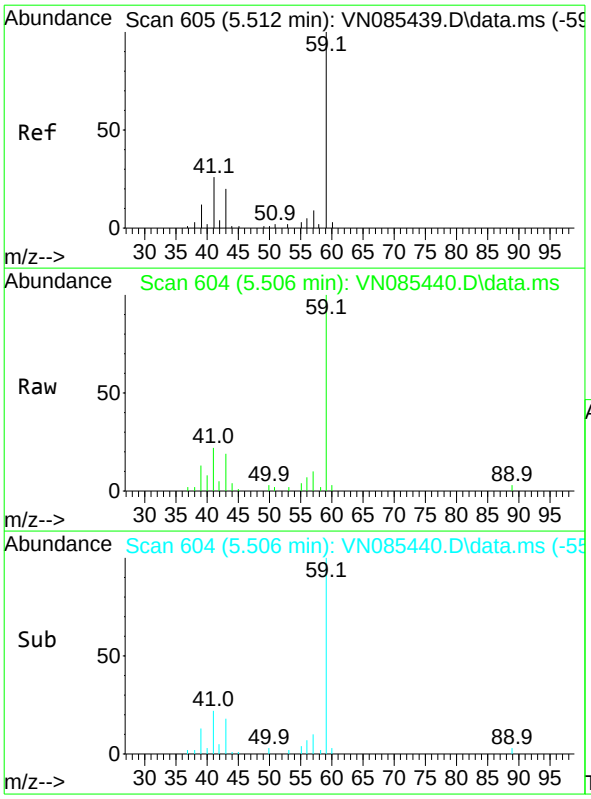


#10
Methyl Iodide
Concen: 20.428 ug/l
RT: 4.589 min Scan# 448
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:142 Resp: 56567

Ion	Ratio	Lower	Upper
142	100		
127	44.6	40.3	60.5
141	14.8	12.8	19.2

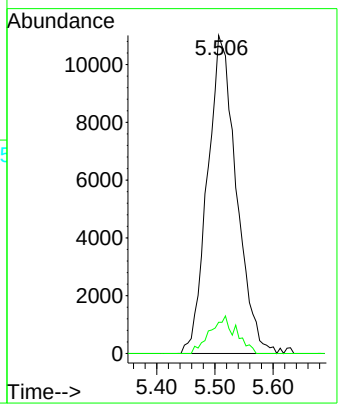




#11
Tert butyl alcohol
Concen: 102.342 ug/l
RT: 5.506 min Scan# 60
Delta R.T. -0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 59 Resp: 37984

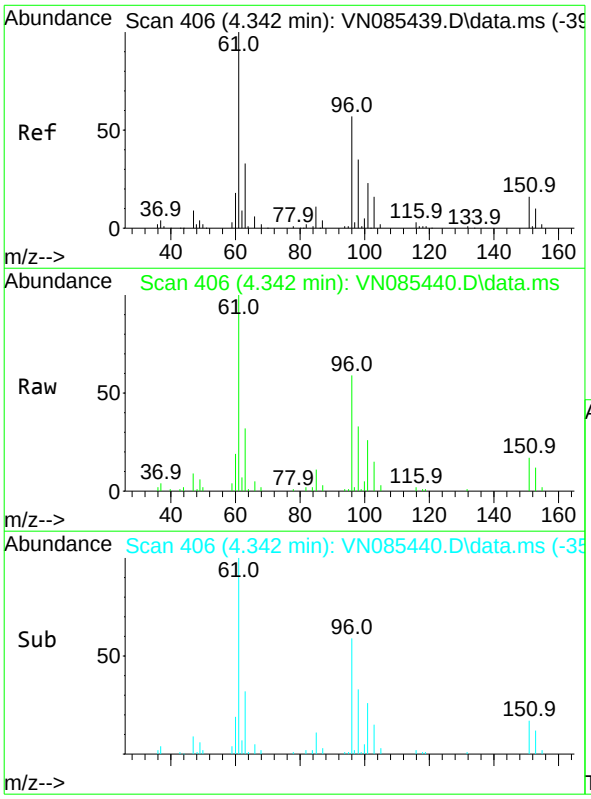
Ion	Ratio	Lower	Upper
59	100		
57	10.7	8.6	13.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

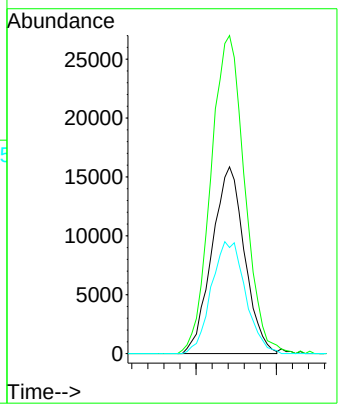
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

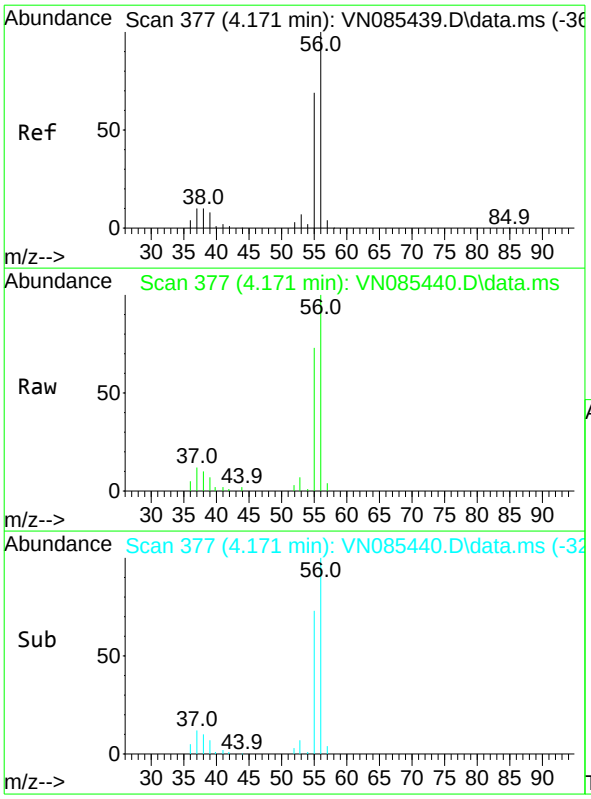


#12
1,1-Dichloroethene
Concen: 20.728 ug/l
RT: 4.342 min Scan# 406
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 96 Resp: 44670

Ion	Ratio	Lower	Upper
96	100		
61	170.3	141.0	211.4
98	56.8	49.0	73.6

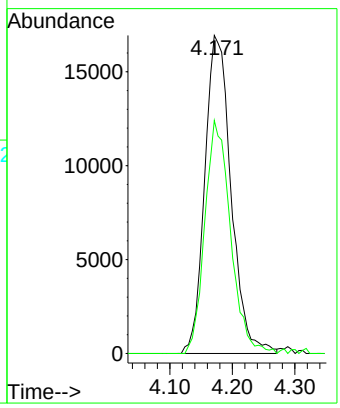




#13
Acrolein
Concen: 97.995 ug/l
RT: 4.171 min Scan# 37
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 56 Resp: 49649

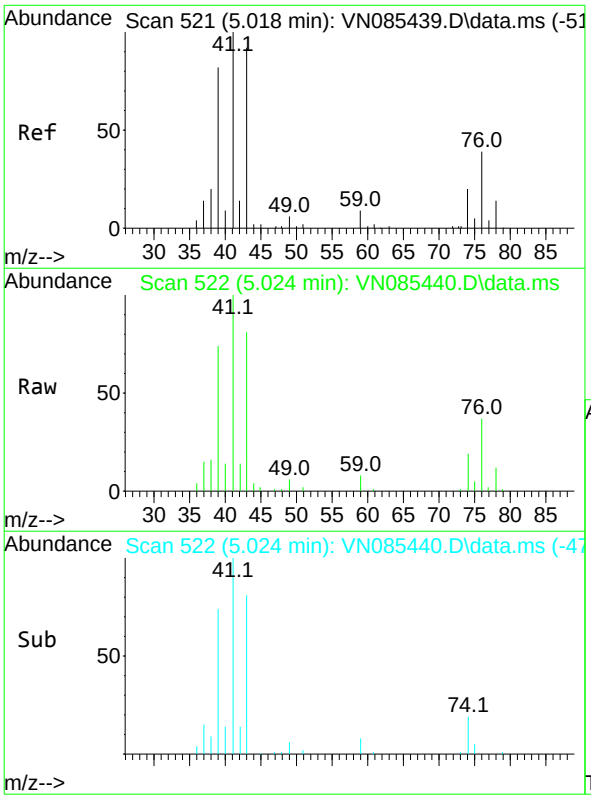
Ion	Ratio	Lower	Upper
56	100		
55	71.4	56.3	84.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

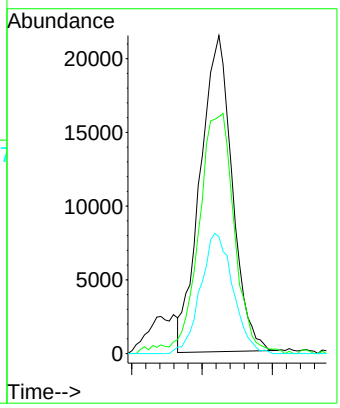
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

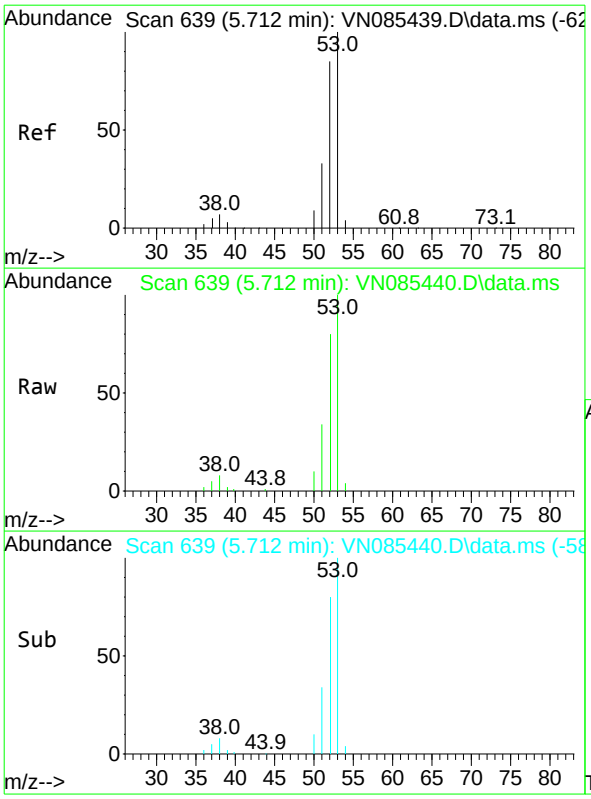


#14
Allyl chloride
Concen: 19.362 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 41 Resp: 67705

Ion	Ratio	Lower	Upper
41	100		
39	85.0	64.4	96.6
76	38.6	30.5	45.7

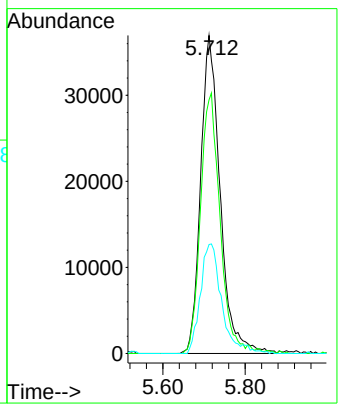




#15
Acrylonitrile
Concen: 103.171 ug/l
RT: 5.712 min Scan# 63
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 53 Resp: 121626

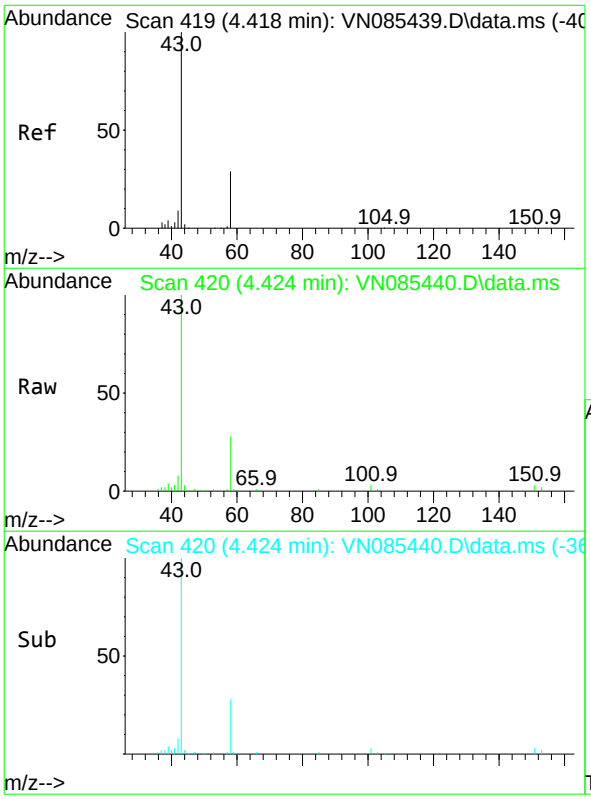
Ion	Ratio	Lower	Upper
53	100		
52	81.1	65.5	98.3
51	36.1	29.8	44.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

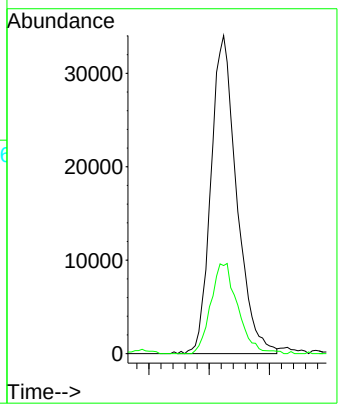
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

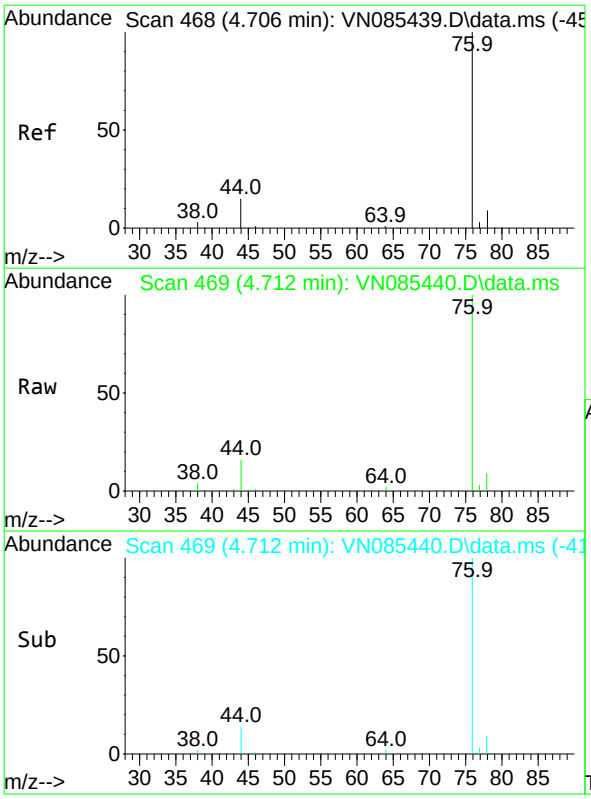


#16
Acetone
Concen: 96.502 ug/l
RT: 4.424 min Scan# 420
Delta R.T. 0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 43 Resp: 101065

Ion	Ratio	Lower	Upper
43	100		
58	27.7	23.8	35.6

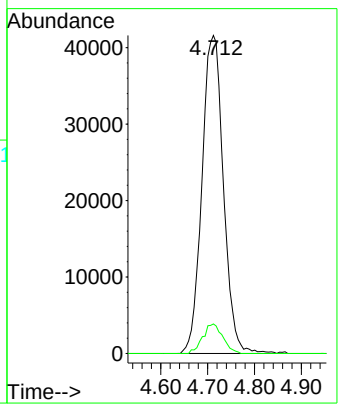




#17
Carbon Disulfide
Concen: 19.939 ug/l
RT: 4.712 min Scan# 46
Delta R.T. 0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 76 Resp: 132300

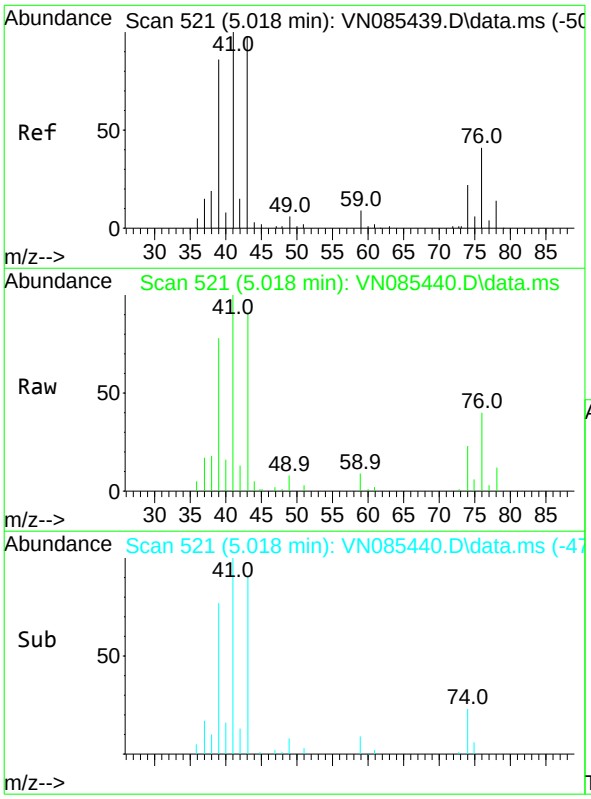
Ion	Ratio	Lower	Upper
76	100		
78	9.3	6.9	10.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

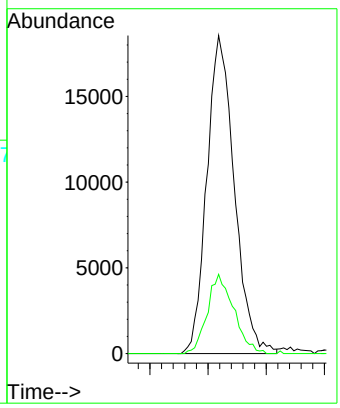
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

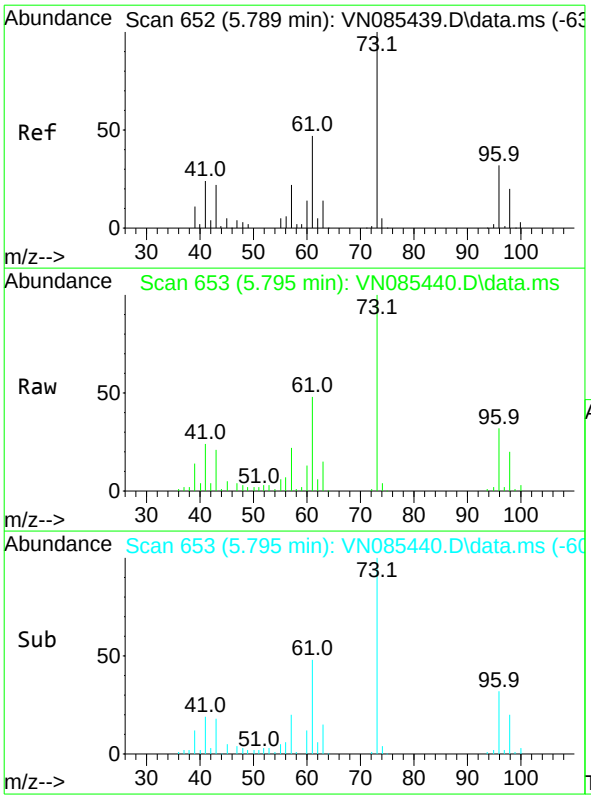


#18
Methyl Acetate
Concen: 19.115 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 43 Resp: 60873

Ion	Ratio	Lower	Upper
43	100		
74	24.0	18.6	28.0

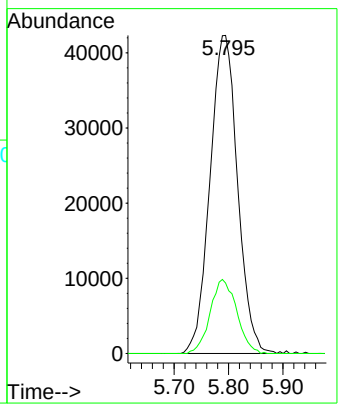




#19
Methyl tert-butyl Ether
Concen: 21.272 ug/l
RT: 5.795 min Scan# 65
Delta R.T. 0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 73 Resp: 148847

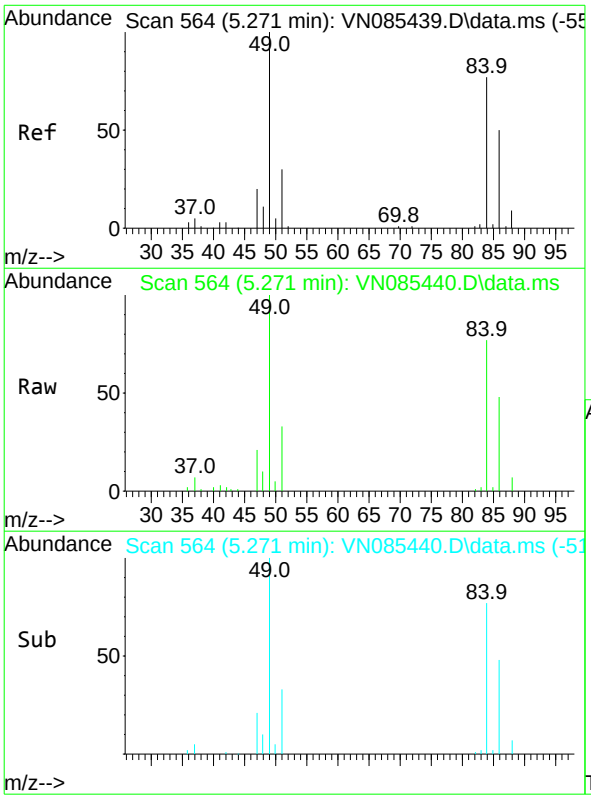
Ion	Ratio	Lower	Upper
73	100		
57	22.1	17.8	26.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

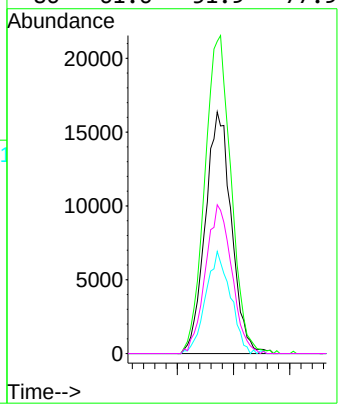
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

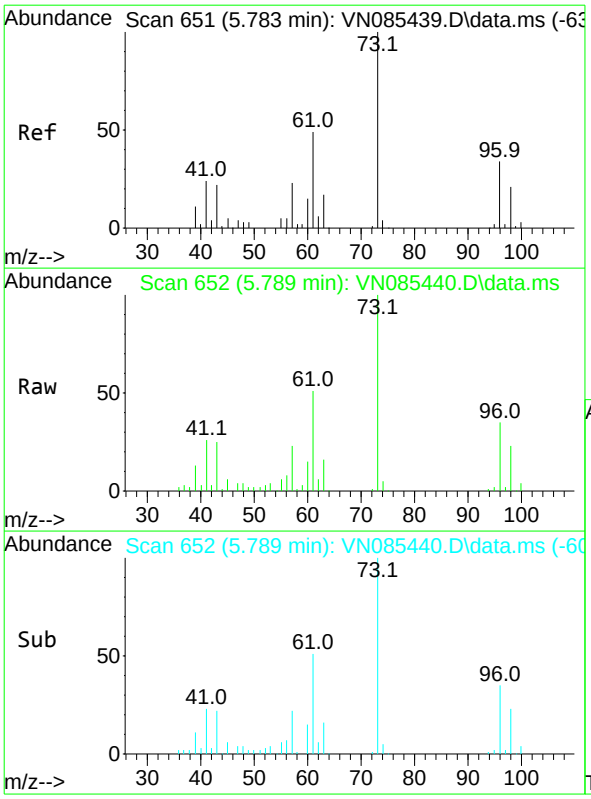


#20
Methylene Chloride
Concen: 20.370 ug/l
RT: 5.271 min Scan# 564
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 84 Resp: 52813

Ion	Ratio	Lower	Upper
84	100		
49	129.2	104.1	156.1
51	42.2	31.0	46.4
86	61.6	51.9	77.9

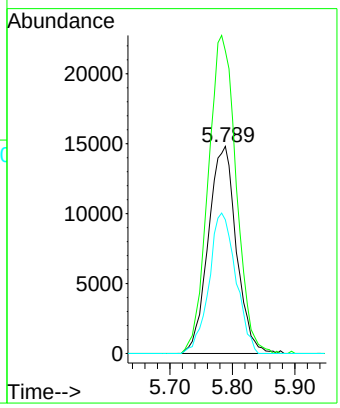




#21
trans-1,2-Dichloroethene
Concen: 20.023 ug/l
RT: 5.789 min Scan# 65
Delta R.T. 0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 96 Resp: 46115

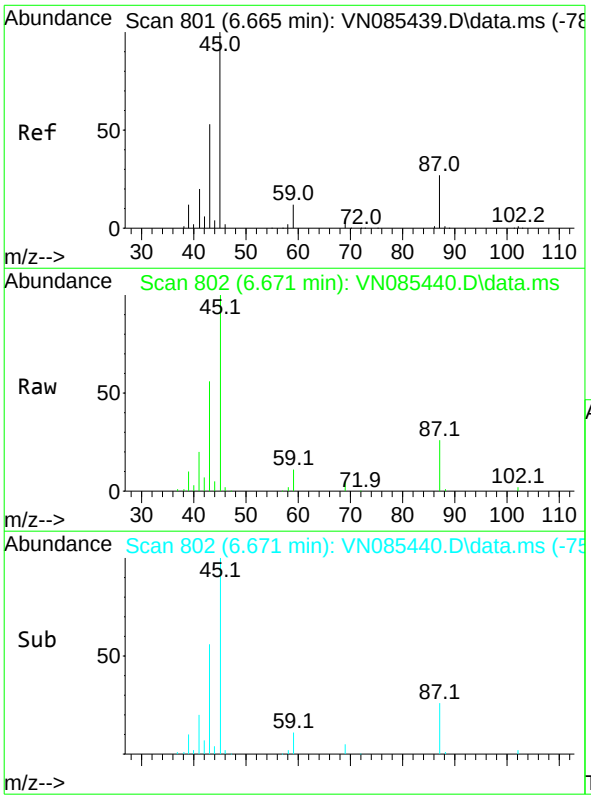
Ion	Ratio	Lower	Upper
96	100		
61	146.1	115.7	173.5
98	64.5	49.8	74.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

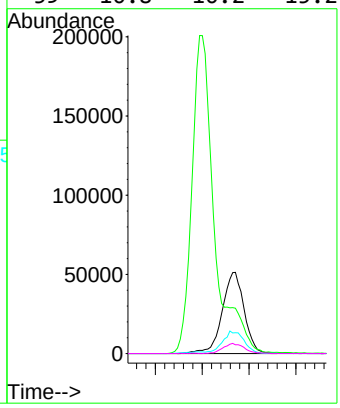
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

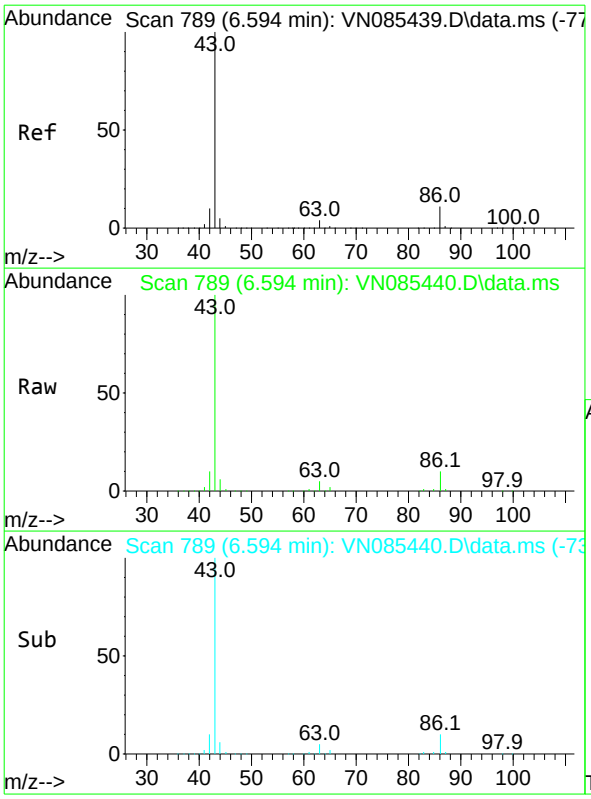


#22
Diisopropyl ether
Concen: 21.480 ug/l
RT: 6.671 min Scan# 802
Delta R.T. 0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 45 Resp: 166719

Ion	Ratio	Lower	Upper
45	100		
43	54.3	45.0	67.6
87	25.3	21.8	32.8
59	10.8	10.2	15.2

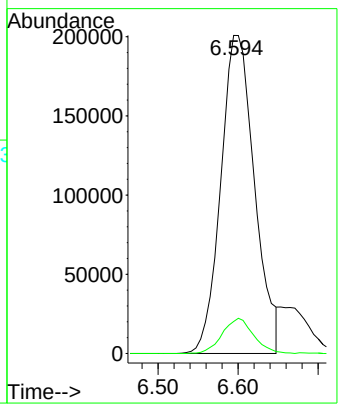




#23
Vinyl Acetate
Concen: 107.984 ug/l m
RT: 6.594 min Scan# 78
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 43 Resp: 588567

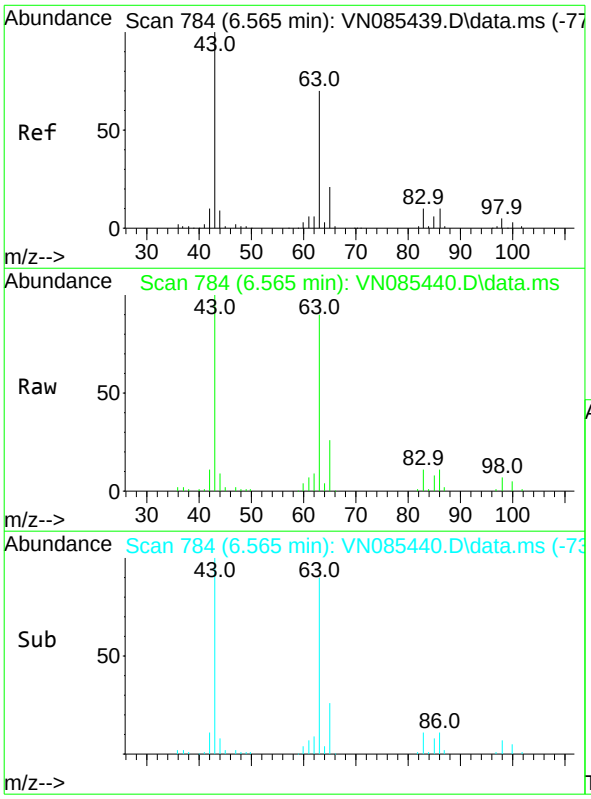
Ion	Ratio	Lower	Upper
43	100		
86	10.1	8.4	12.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

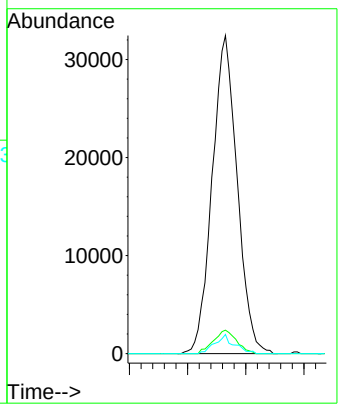
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

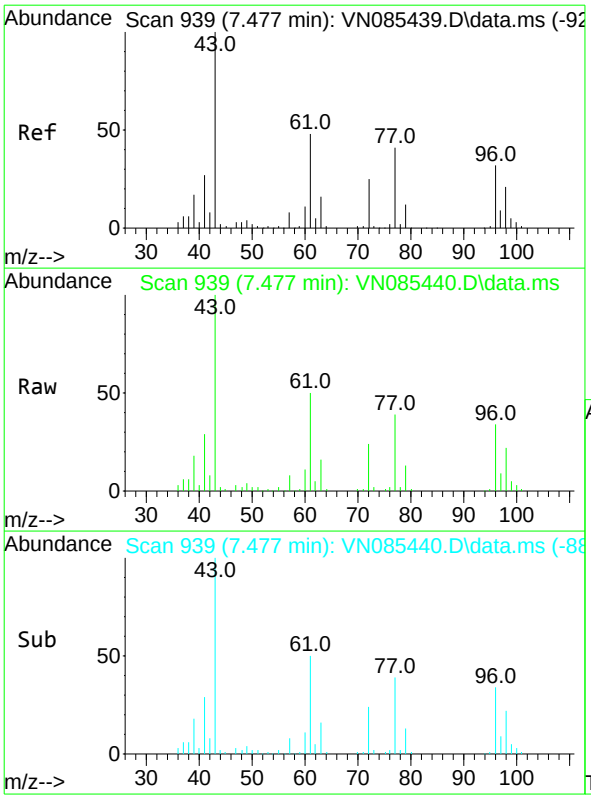


#24
1,1-Dichloroethane
Concen: 20.469 ug/l
RT: 6.565 min Scan# 784
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 63 Resp: 96875

Ion	Ratio	Lower	Upper
63	100		
98	7.4	3.3	9.8
100	6.0	2.0	6.0#

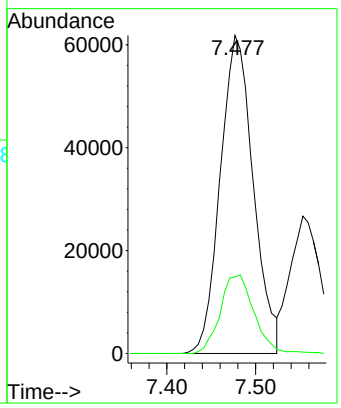




#25
2-Butanone
Concen: 103.786 ug/l
RT: 7.477 min Scan# 93
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 43 Resp: 159952

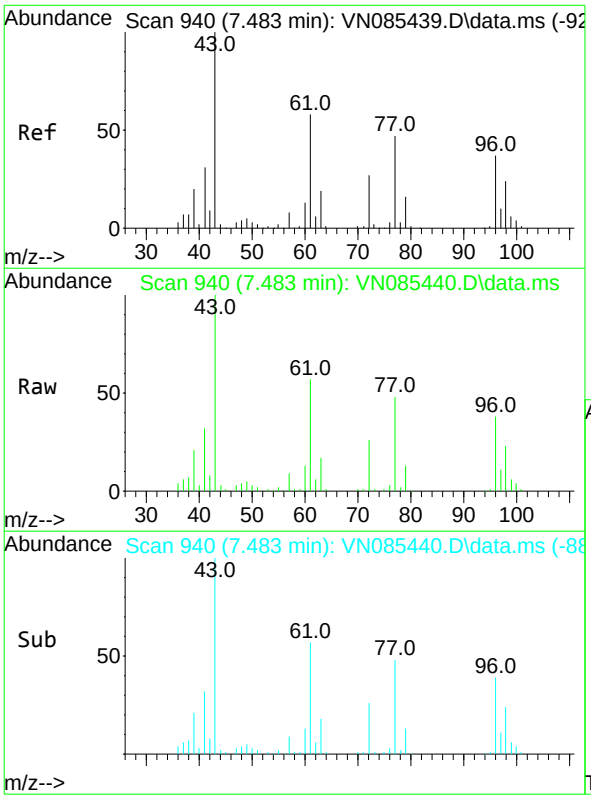
Ion	Ratio	Lower	Upper
43	100		
72	24.1	20.2	30.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

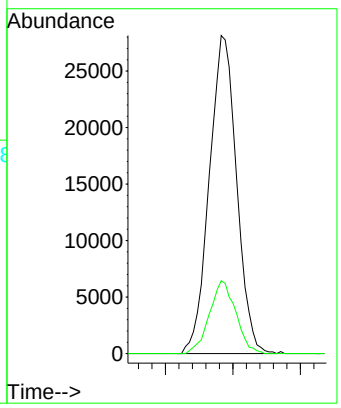
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

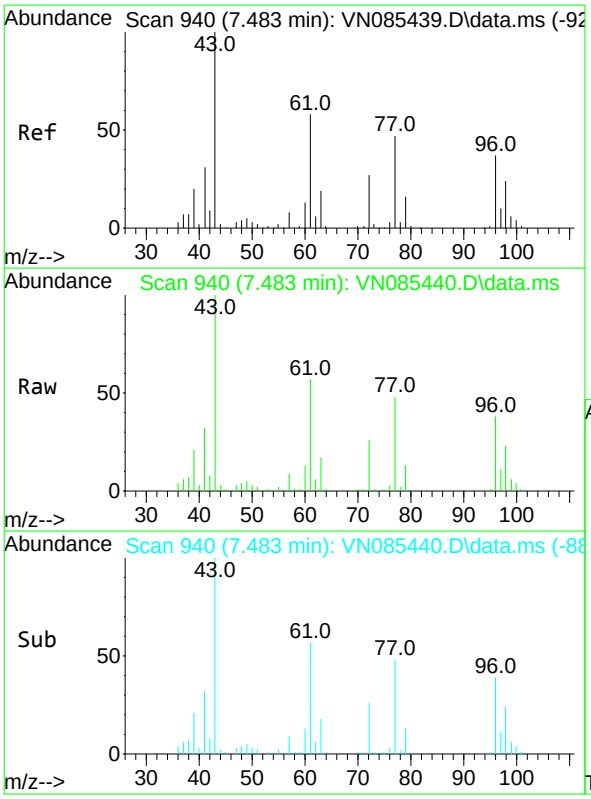


#26
2,2-Dichloropropane
Concen: 20.684 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 77 Resp: 79145

Ion	Ratio	Lower	Upper
77	100		
97	22.0	10.7	32.1

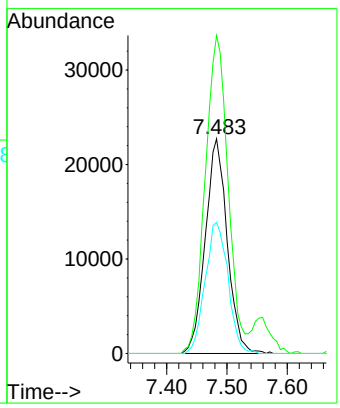




#27
cis-1,2-Dichloroethene
Concen: 21.180 ug/l
RT: 7.483 min Scan# 94
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 96 Resp: 57454

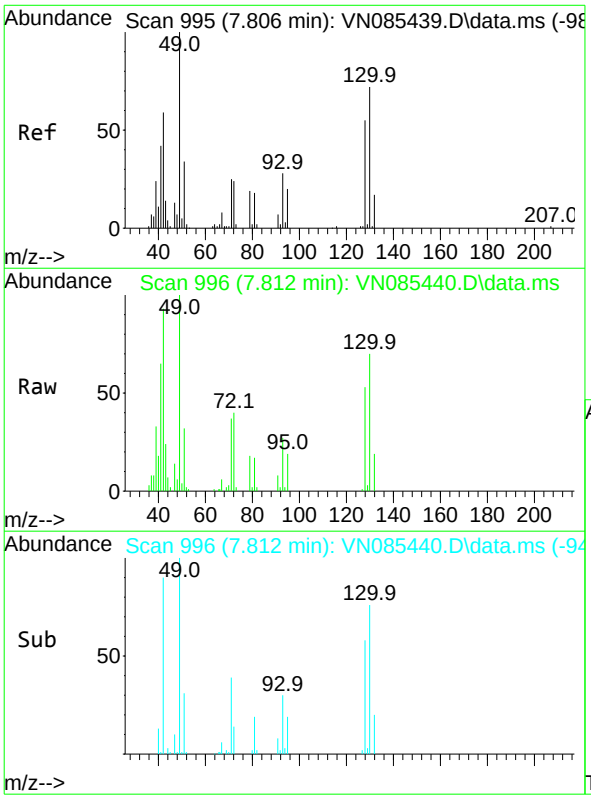
Ion	Ratio	Lower	Upper
96	100		
61	153.0	0.0	311.8
98	63.7	0.0	126.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

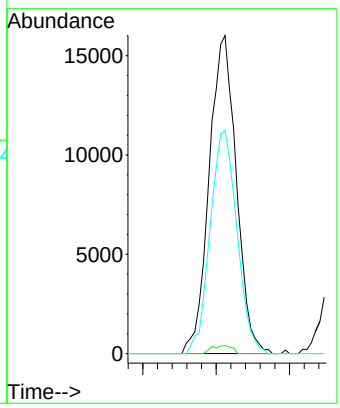
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

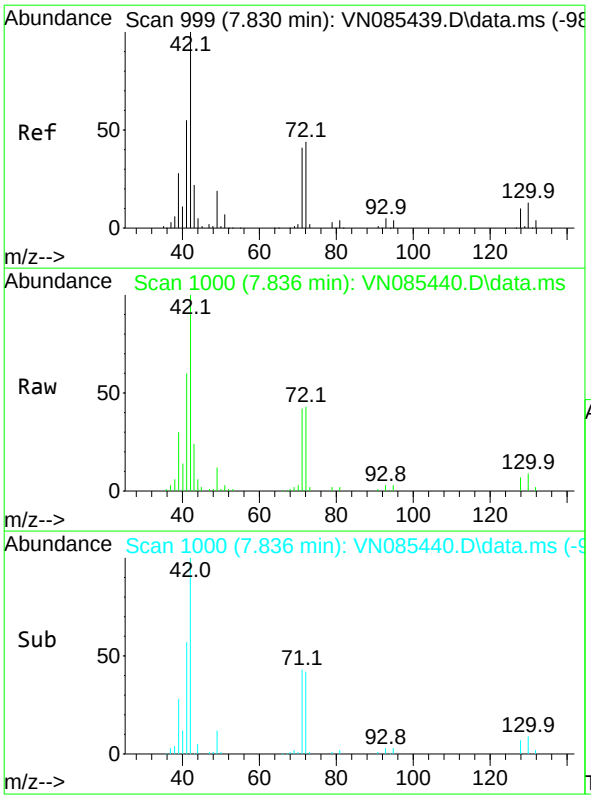


#28
Bromochloromethane
Concen: 18.703 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 49 Resp: 41181

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	4.4
130	69.3	55.0	82.4

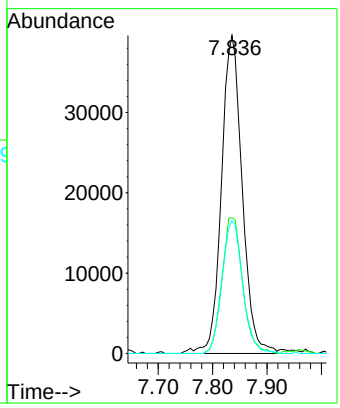




#29
Tetrahydrofuran
Concen: 107.247 ug/l
RT: 7.836 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 42 Resp: 104792

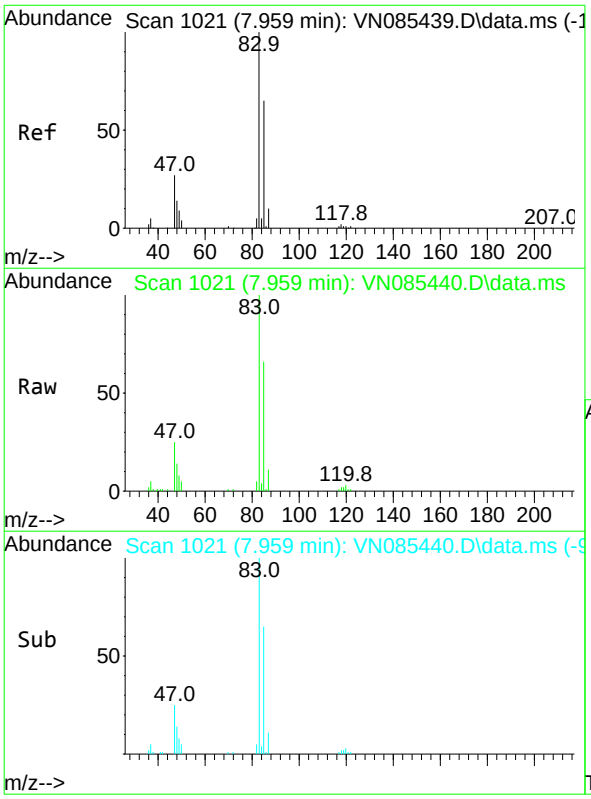
Ion	Ratio	Lower	Upper
42	100		
72	42.6	34.2	51.2
71	41.4	32.5	48.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

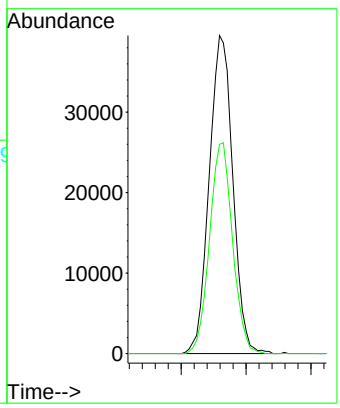
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

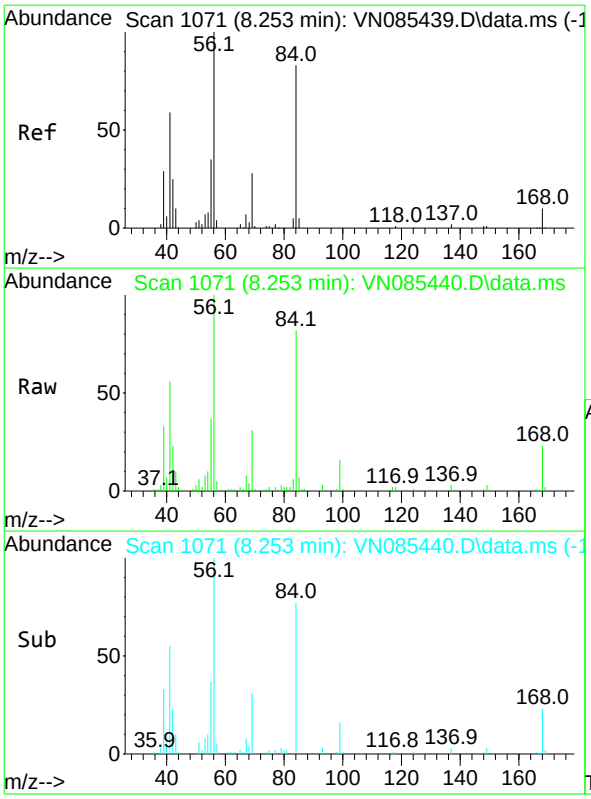


#30
Chloroform
Concen: 20.374 ug/l
RT: 7.959 min Scan# 1021
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 83 Resp: 99655

Ion	Ratio	Lower	Upper
83	100		
85	65.8	51.8	77.6

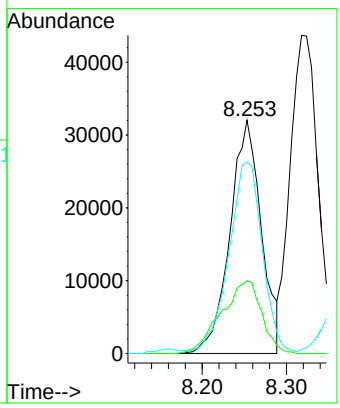




#31
Cyclohexane
Concen: 20.173 ug/l
RT: 8.253 min Scan# 10
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 56 Resp: 82980

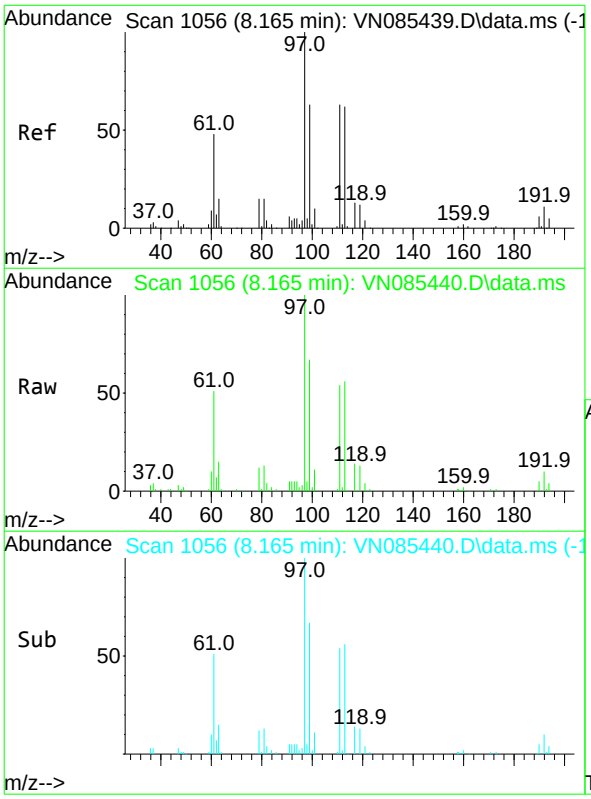
Ion	Ratio	Lower	Upper
56	100		
69	31.2	22.2	33.4
84	80.8	66.4	99.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

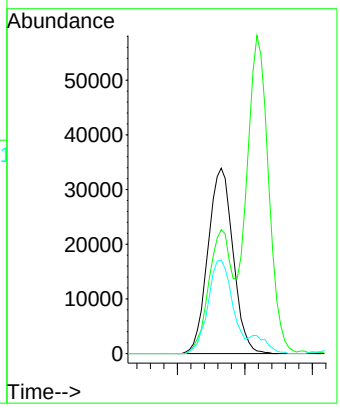
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

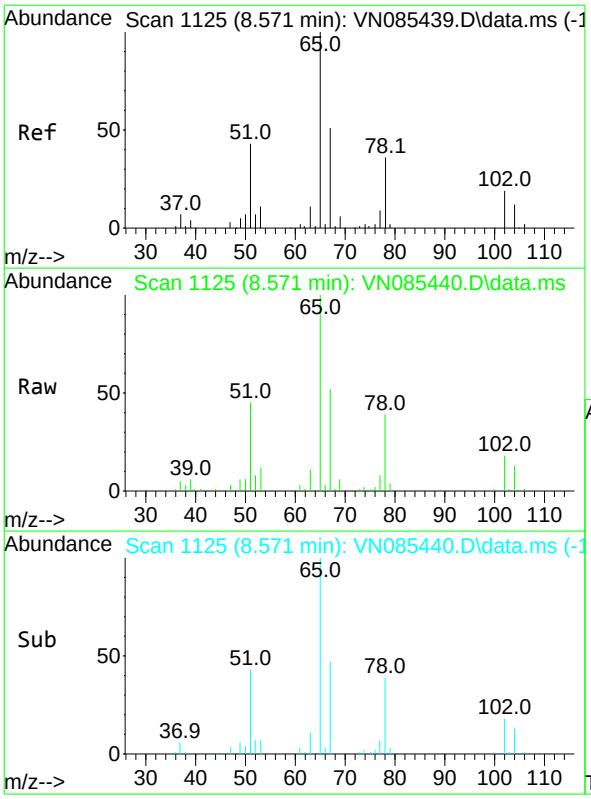


#32
1,1,1-Trichloroethane
Concen: 20.431 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 97 Resp: 87659

Ion	Ratio	Lower	Upper
97	100		
99	64.2	49.8	74.6
61	50.3	41.4	62.2

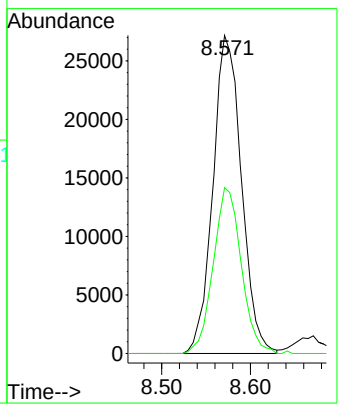




#33
1,2-Dichloroethane-d4
Concen: 18.694 ug/l
RT: 8.571 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 65 Resp: 60593

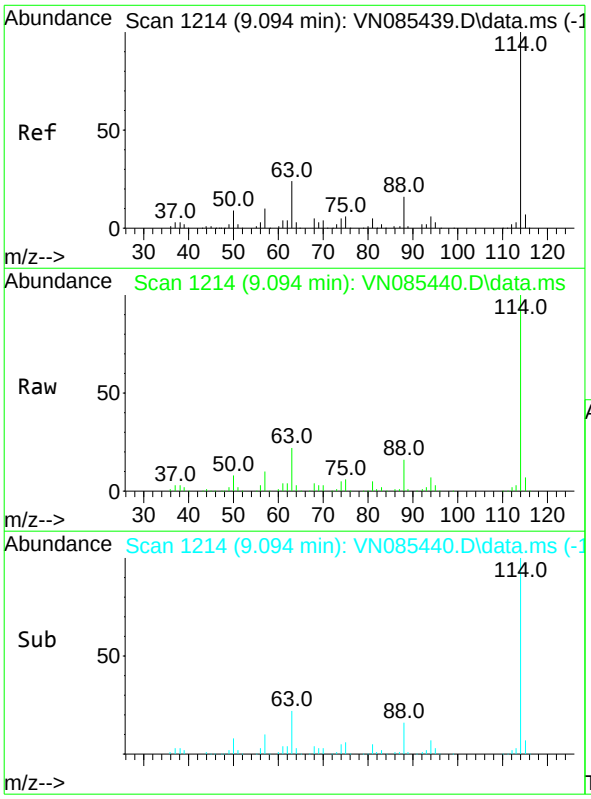
Ion	Ratio	Lower	Upper
65	100		
67	51.2	0.0	101.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

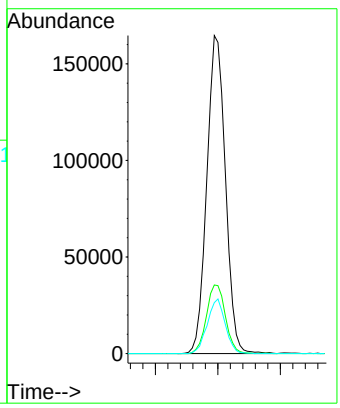
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

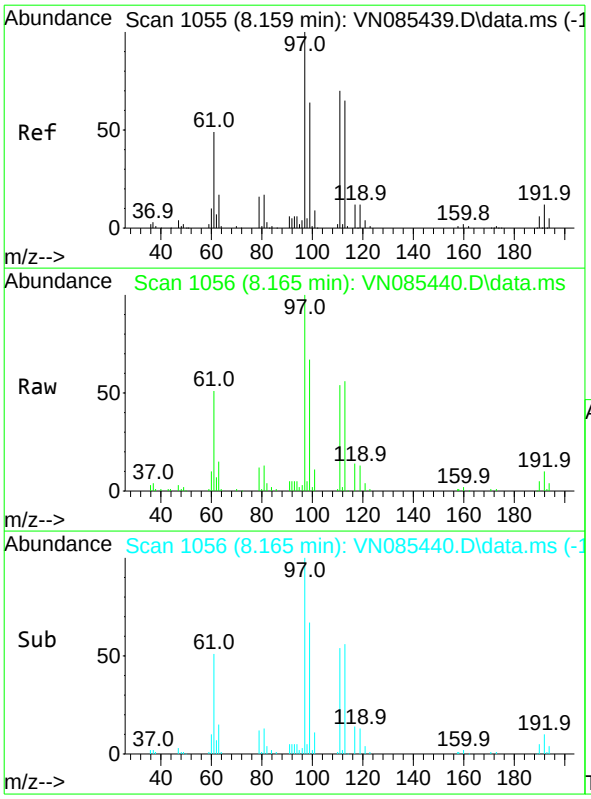


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.094 min Scan# 1214
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:114 Resp: 340593

Ion	Ratio	Lower	Upper
114	100		
63	21.6	0.0	47.6
88	16.0	0.0	32.6

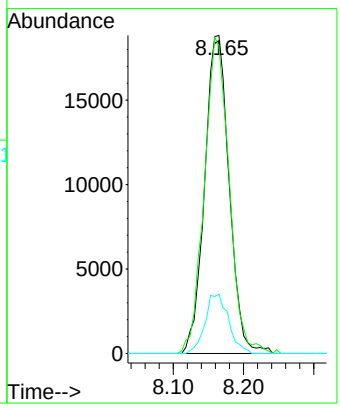




#35
Dibromofluoromethane
Concen: 19.322 ug/l
RT: 8.165 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:113 Resp: 45655

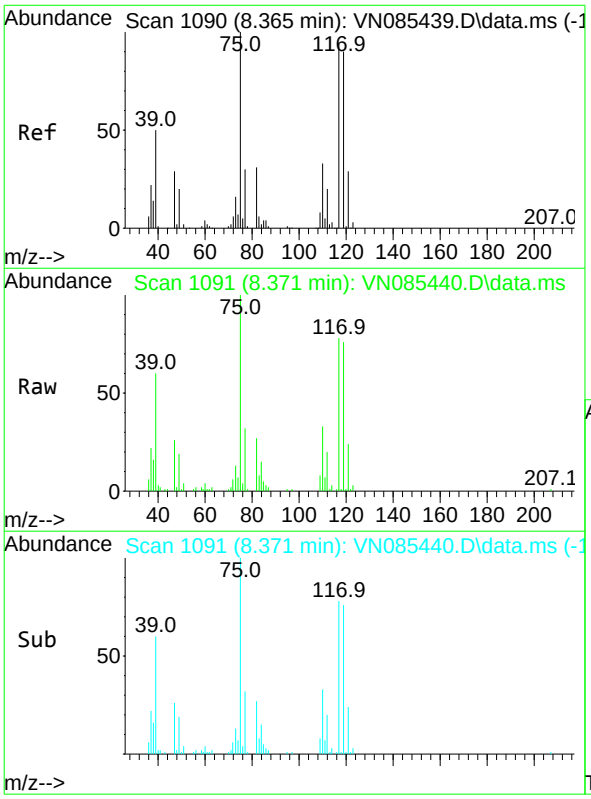
Ion	Ratio	Lower	Upper
113	100		
111	100.6	82.7	124.1
192	17.9	14.3	21.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

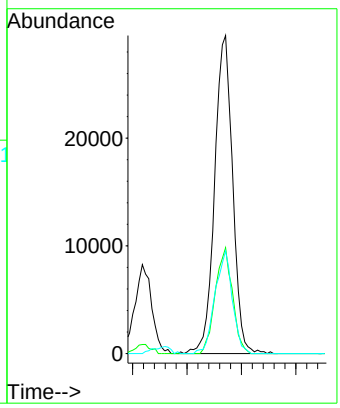
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

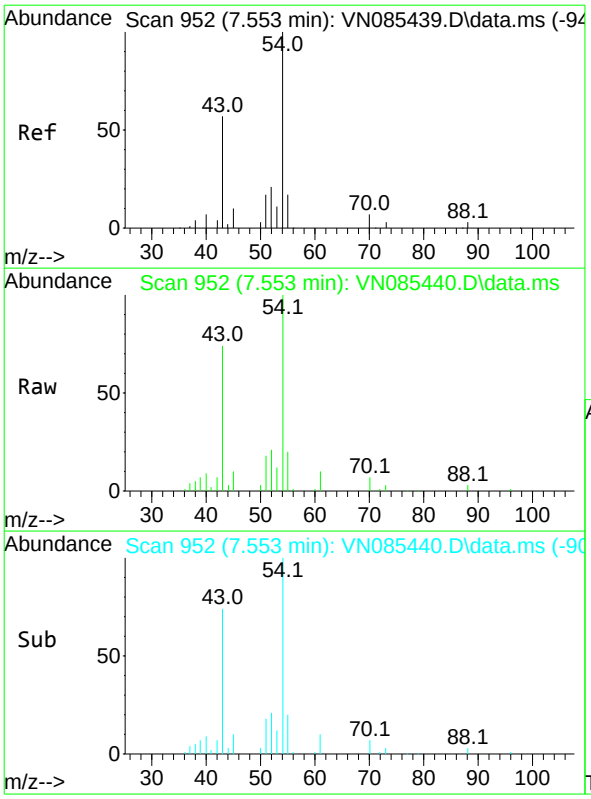


#36
1,1-Dichloropropene
Concen: 20.490 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. 0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 75 Resp: 67949

Ion	Ratio	Lower	Upper
75	100		
110	31.8	16.5	49.5
77	31.1	24.4	36.6





#37
Ethyl Acetate
Concen: 19.850 ug/l
RT: 7.553 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

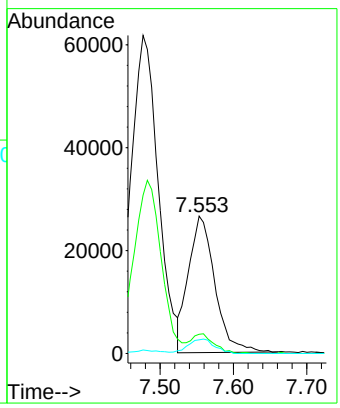
Tgt Ion: 43 Resp: 66443

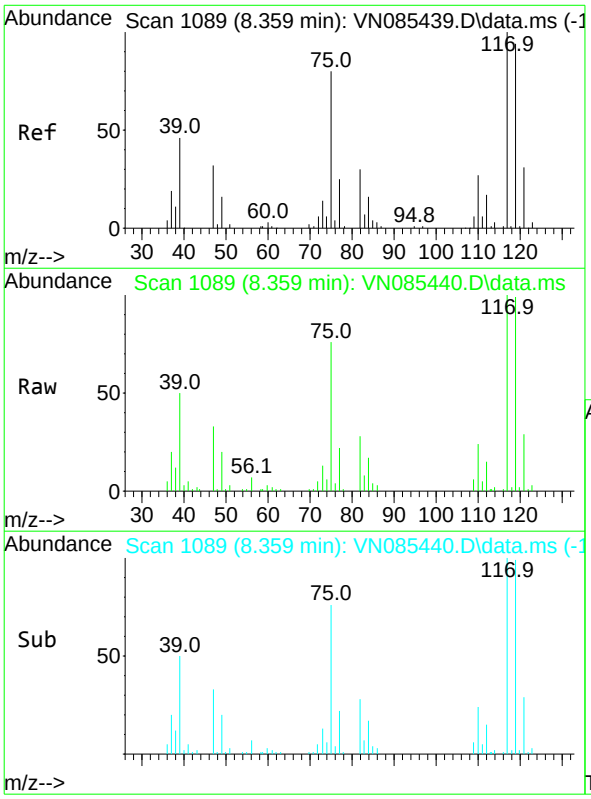
Ion	Ratio	Lower	Upper
43	100		
61	11.9	10.9	16.3
70	10.6	7.5	11.3

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

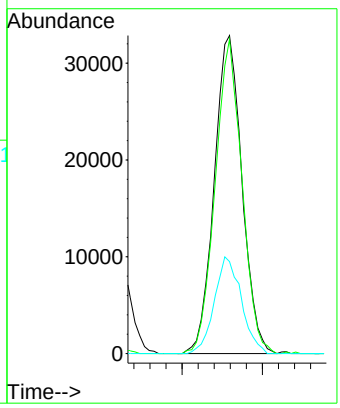


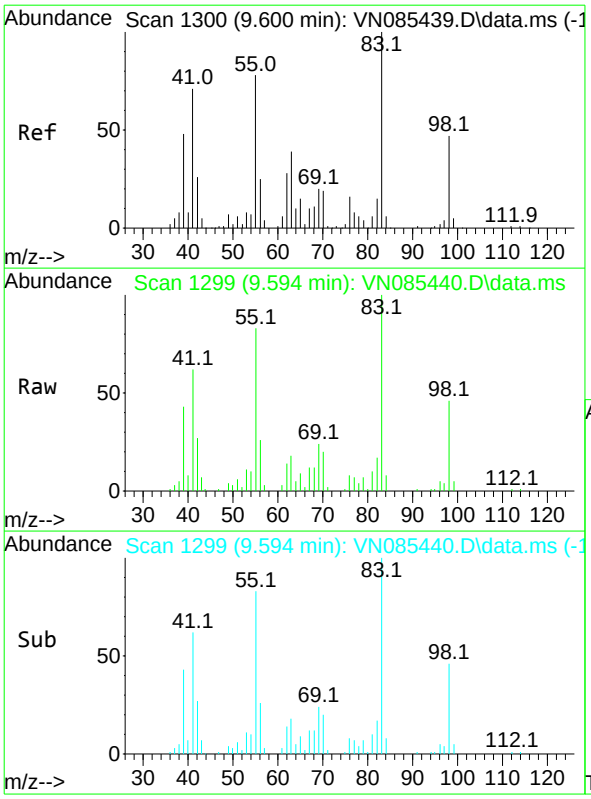


#38
Carbon Tetrachloride
Concen: 20.767 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:117 Resp: 78842

Ion	Ratio	Lower	Upper
117	100		
119	98.9	75.4	113.2
121	28.9	24.6	37.0

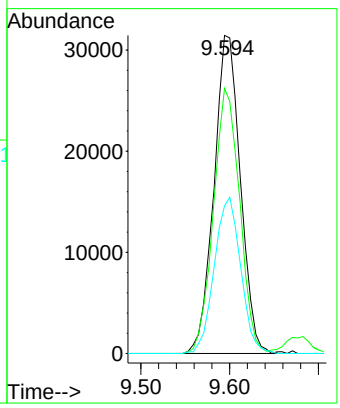




#39
Methylcyclohexane
Concen: 20.862 ug/l
RT: 9.594 min Scan# 12
Delta R.T. -0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 83 Resp: 65012

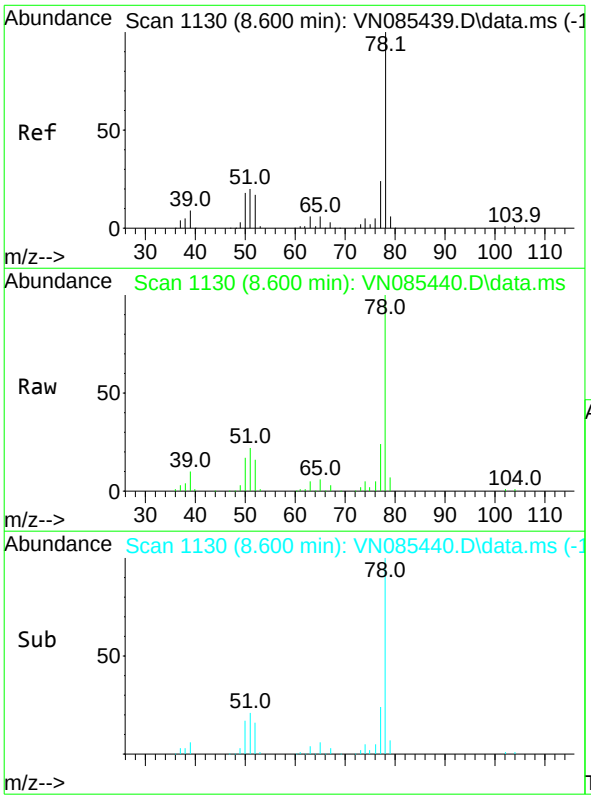
Ion	Ratio	Lower	Upper
83	100		
55	83.4	62.6	94.0
98	46.4	37.7	56.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

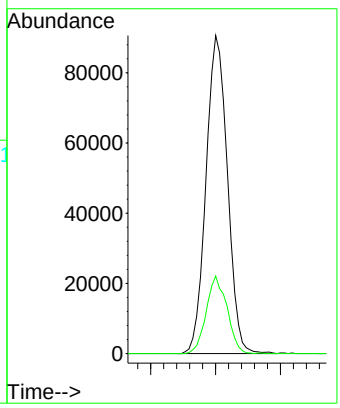
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

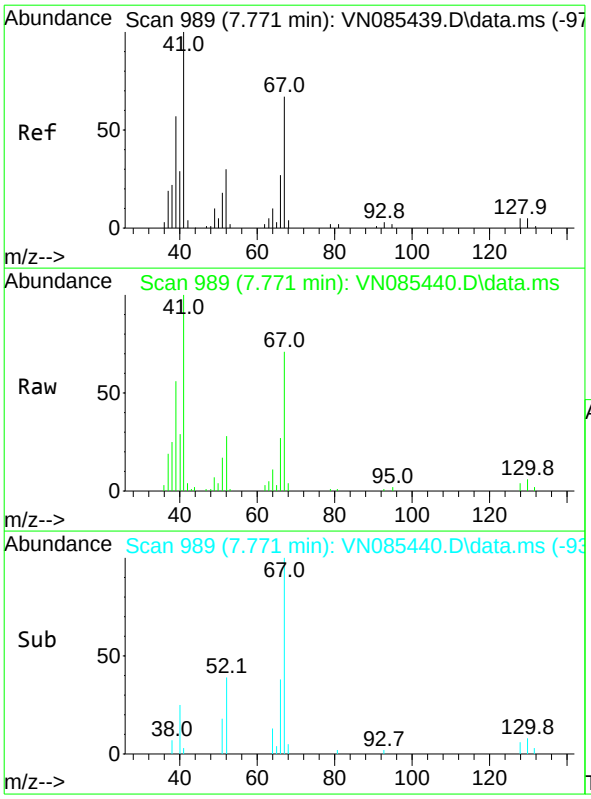


#40
Benzene
Concen: 20.873 ug/l
RT: 8.600 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 78 Resp: 207985

Ion	Ratio	Lower	Upper
78	100		
77	24.4	19.0	28.6

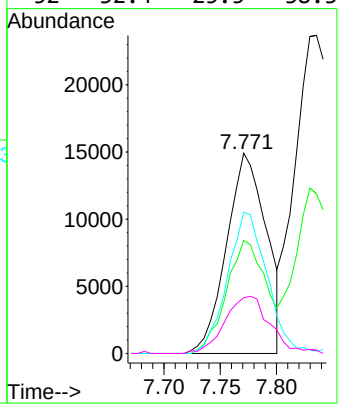




#41
Methacrylonitrile
Concen: 21.004 ug/l
RT: 7.771 min Scan# 98
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 41 Resp: 36578

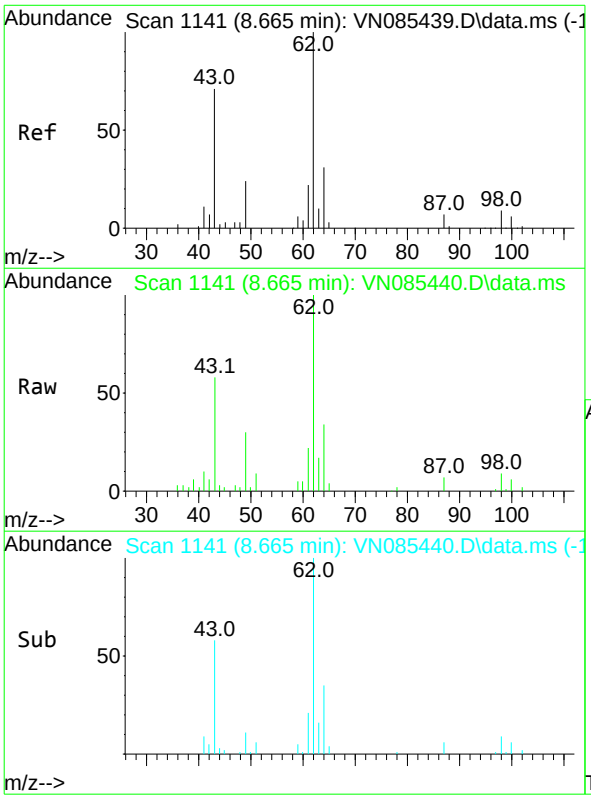
Ion	Ratio	Lower	Upper
41	100		
39	56.6	46.0	69.0
67	70.3	57.4	86.2
52	32.4	25.5	38.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

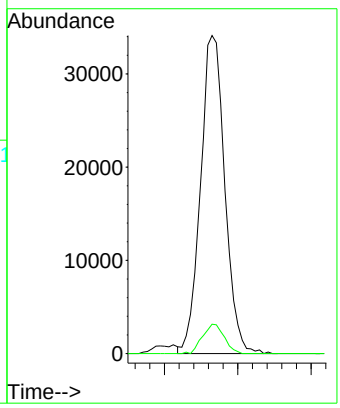
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

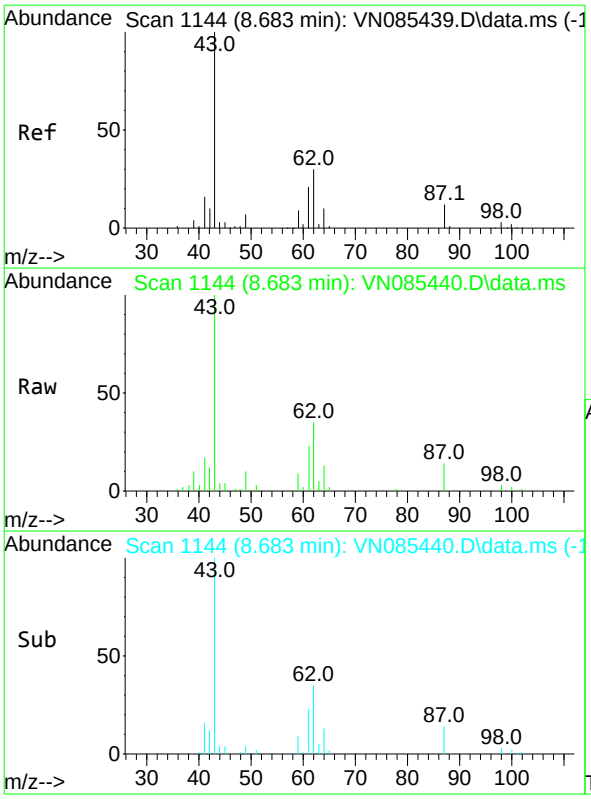


#42
1,2-Dichloroethane
Concen: 20.891 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 62 Resp: 78402

Ion	Ratio	Lower	Upper
62	100		
98	8.3	0.0	17.0

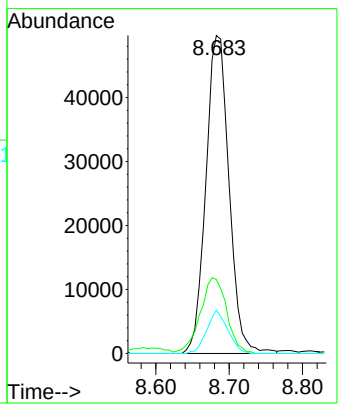




#43
Isopropyl Acetate
Concen: 20.347 ug/l
RT: 8.683 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 43 Resp: 109131

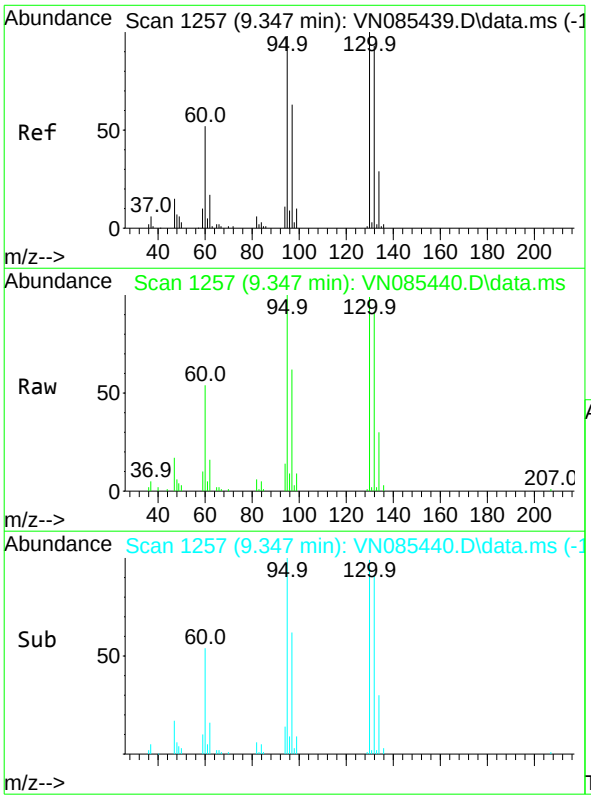
Ion	Ratio	Lower	Upper
43	100		
61	27.2	20.7	31.1
87	12.3	9.8	14.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

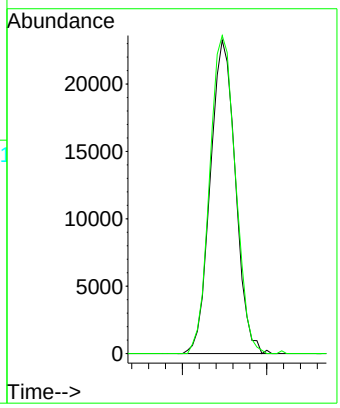
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

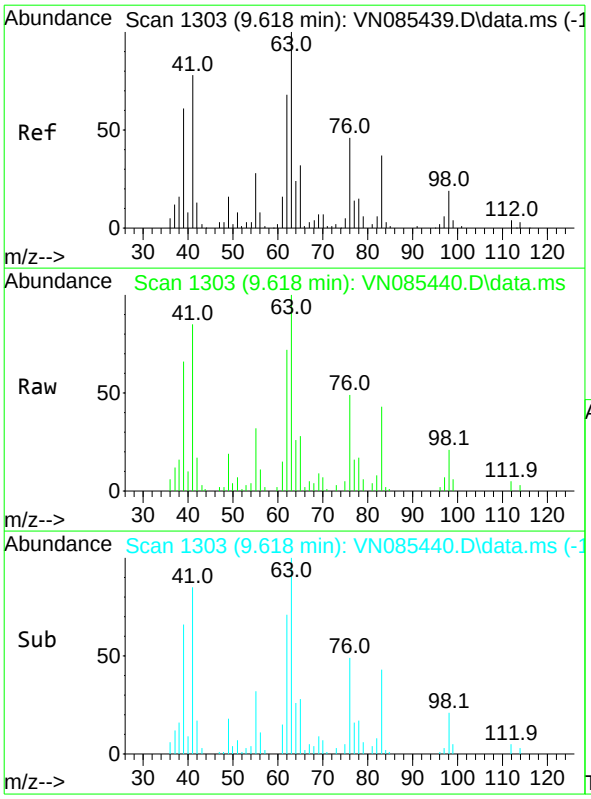


#44
Trichloroethene
Concen: 20.699 ug/l
RT: 9.347 min Scan# 1257
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:130 Resp: 48009

Ion	Ratio	Lower	Upper
130	100		
95	101.5	0.0	195.8

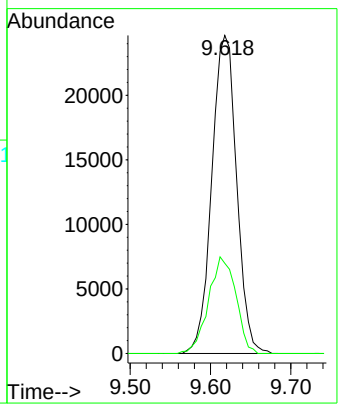




#45
1,2-Dichloropropane
Concen: 20.758 ug/l
RT: 9.618 min Scan# 13
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 63 Resp: 52833

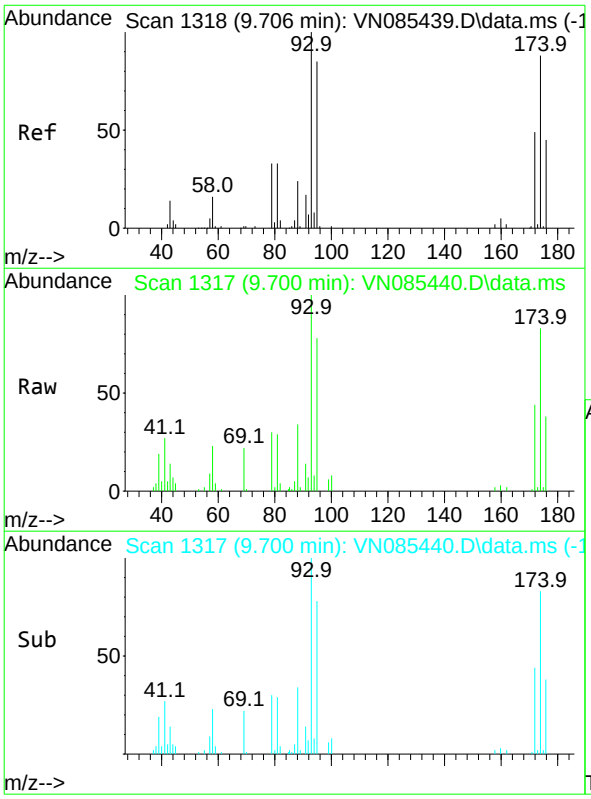
Ion	Ratio	Lower	Upper
63	100		
65	28.3	25.6	38.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

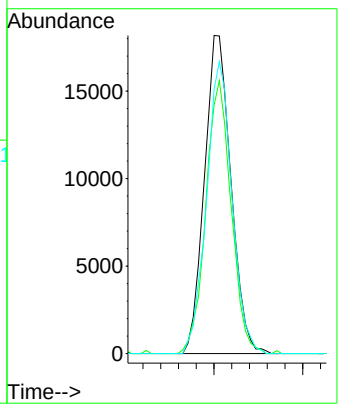
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

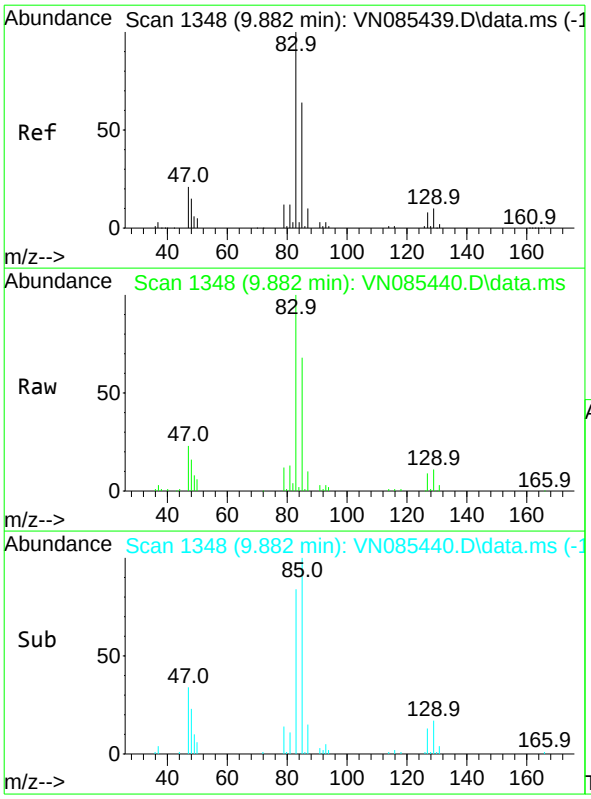


#46
Dibromomethane
Concen: 20.540 ug/l
RT: 9.700 min Scan# 1317
Delta R.T. -0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 93 Resp: 37721

Ion	Ratio	Lower	Upper
93	100		
95	82.0	64.7	97.1
174	88.4	69.0	103.4

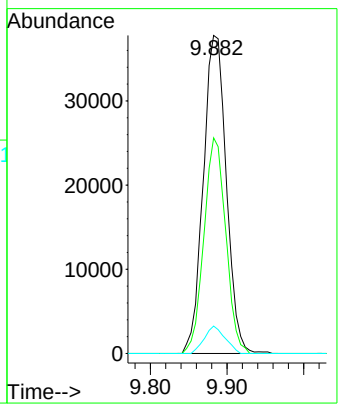




#47
Bromodichloromethane
Concen: 21.093 ug/l
RT: 9.882 min Scan# 13
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 83 Resp: 78918

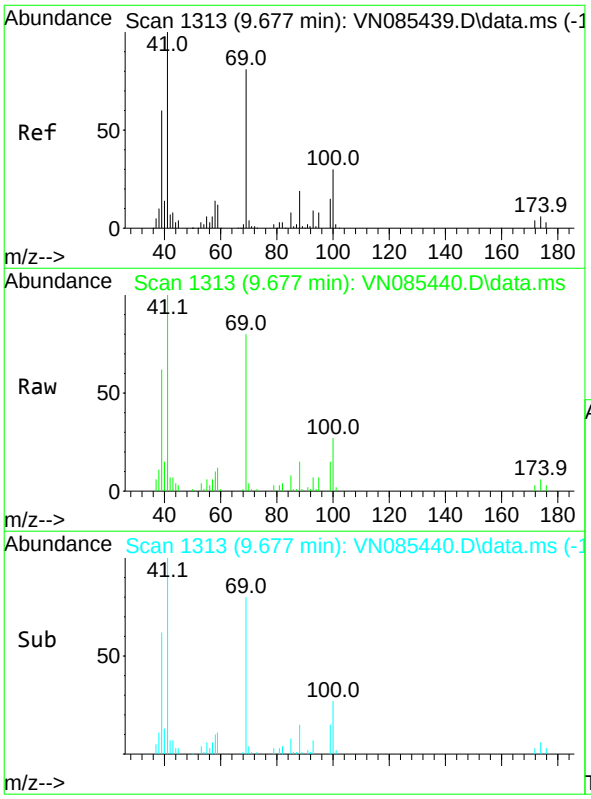
Ion	Ratio	Lower	Upper
83	100		
85	67.8	51.2	76.8
127	8.6	6.5	9.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

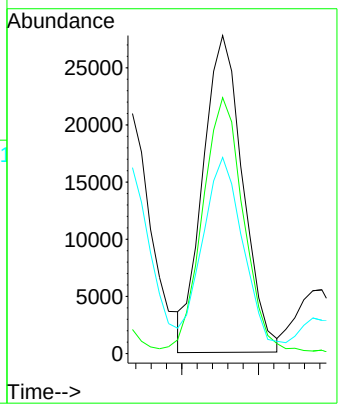
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

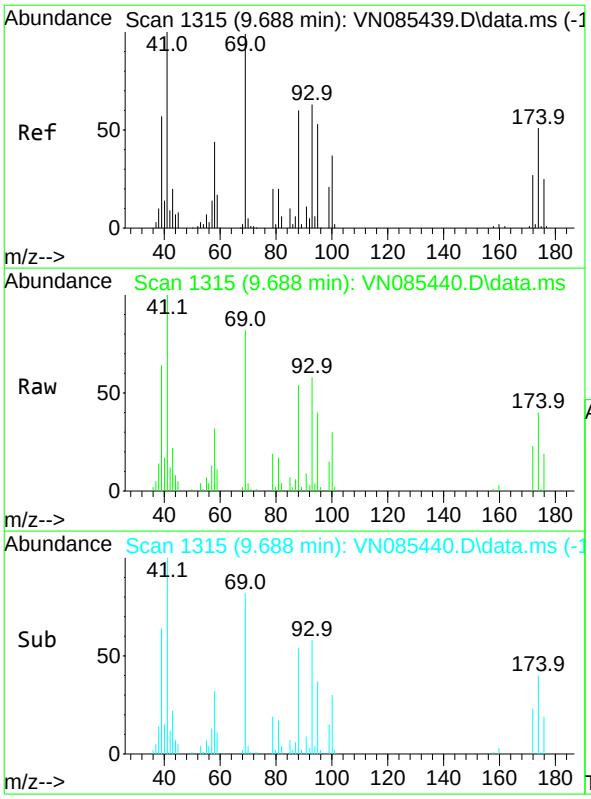


#48
Methyl methacrylate
Concen: 20.808 ug/l
RT: 9.677 min Scan# 1313
Delta R.T. -0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 41 Resp: 50224

Ion	Ratio	Lower	Upper
41	100		
69	84.3	64.7	97.1
39	64.2	49.0	73.6

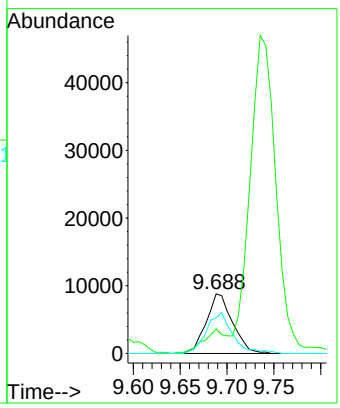




#49
1,4-Dioxane
Concen: 421.686 ug/l
RT: 9.688 min Scan# 13
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 88 Resp: 17140

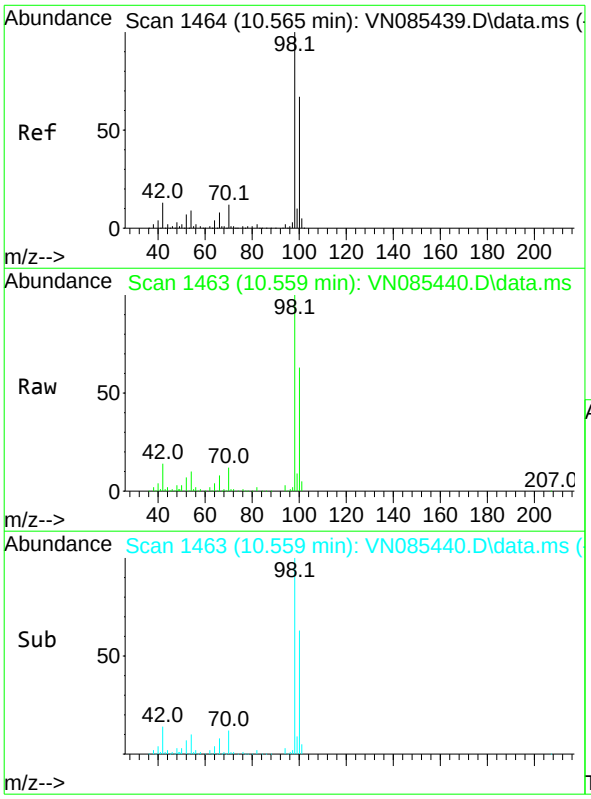
Ion	Ratio	Lower	Upper
88	100		
43	34.9	26.6	39.8
58	69.0	59.5	89.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

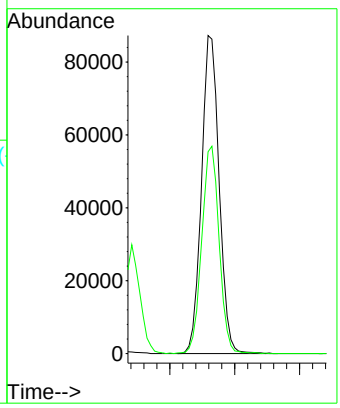
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

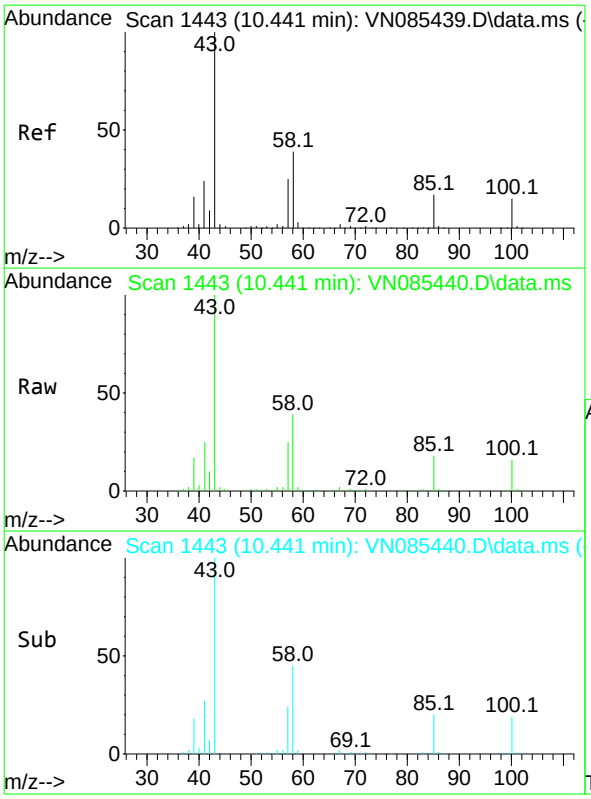


#50
Toluene-d8
Concen: 19.581 ug/l
RT: 10.559 min Scan# 1463
Delta R.T. -0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 98 Resp: 164391

Ion	Ratio	Lower	Upper
98	100		
100	64.4	52.2	78.4

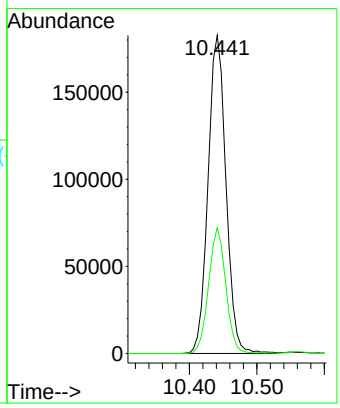




#51
4-Methyl-2-Pentanone
Concen: 108.249 ug/l
RT: 10.441 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 43 Resp: 336911

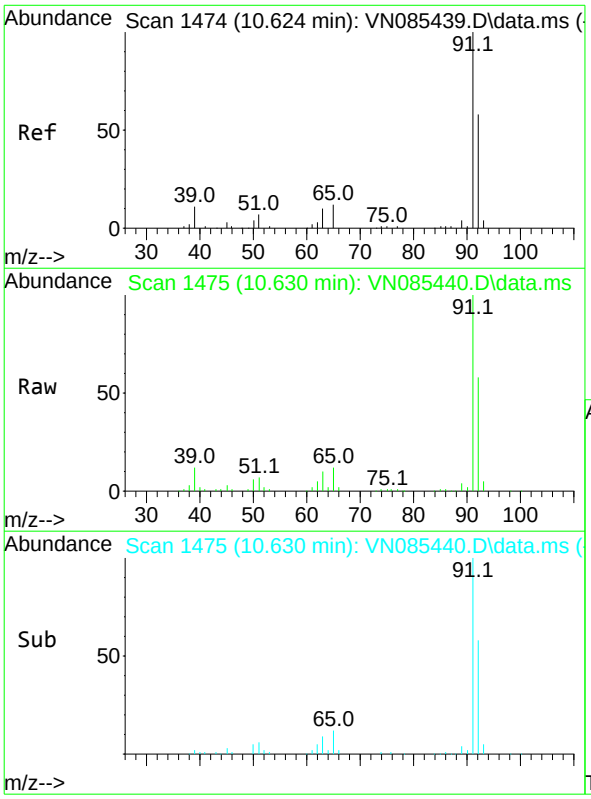
Ion	Ratio	Lower	Upper
43	100		
58	38.1	30.5	45.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

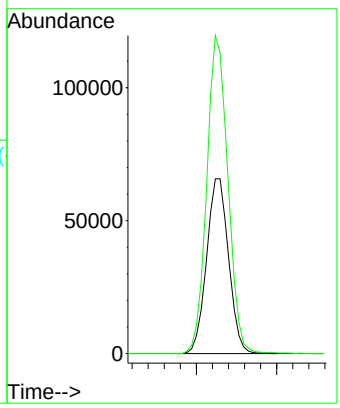
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

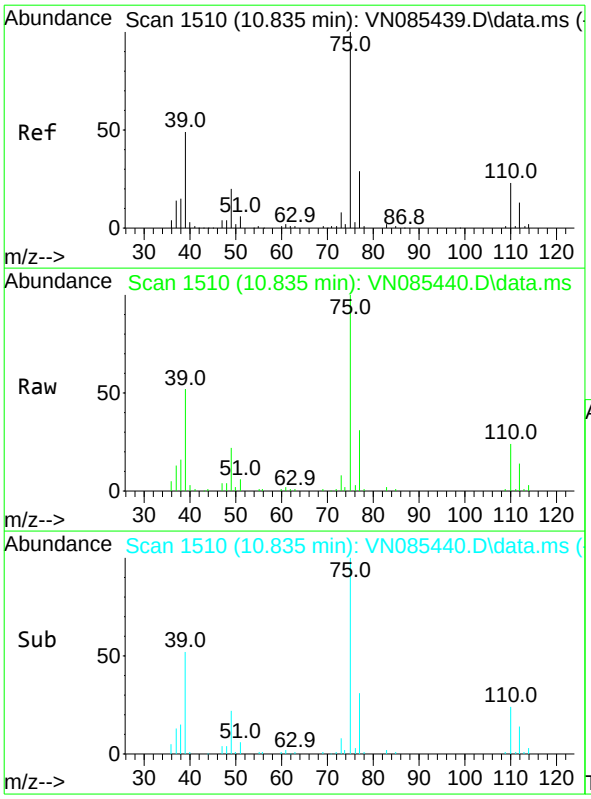


#52
Toluene
Concen: 21.680 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. 0.005 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 92 Resp: 125172

Ion	Ratio	Lower	Upper
92	100		
91	175.1	139.2	208.8

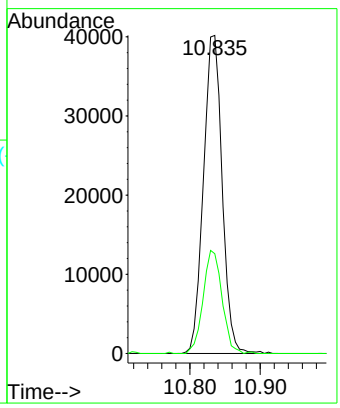




#53
t-1,3-Dichloropropene
Concen: 20.965 ug/l
RT: 10.835 min Scan# 15
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 75 Resp: 74129

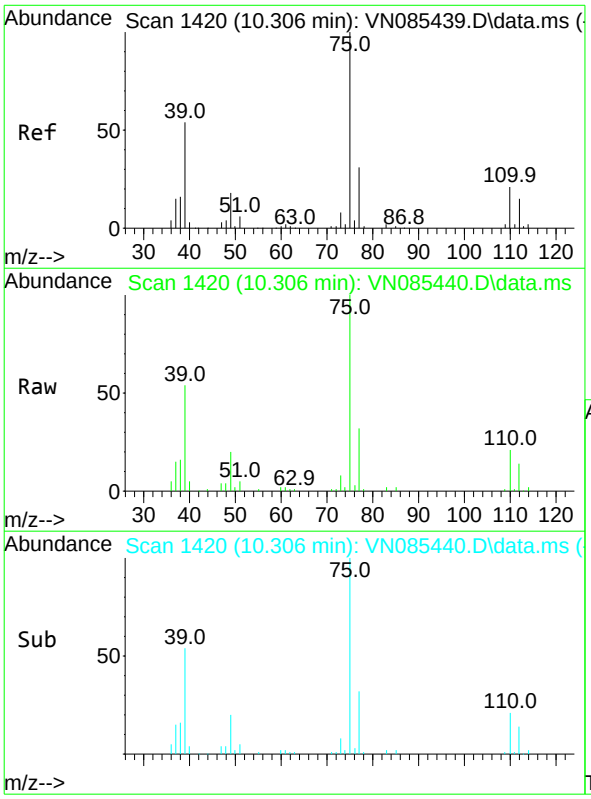
Ion	Ratio	Lower	Upper
75	100		
77	31.4	23.5	35.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

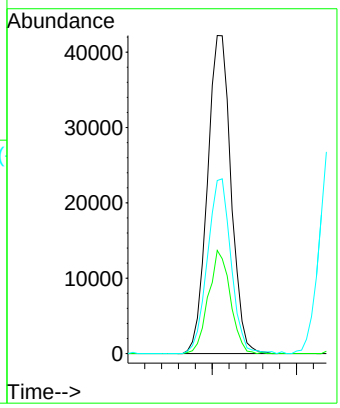
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

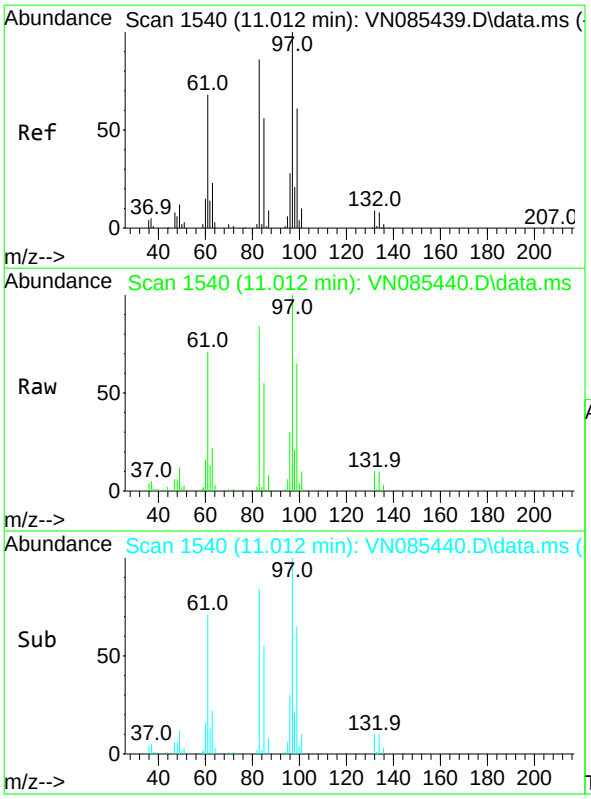


#54
cis-1,3-Dichloropropene
Concen: 21.684 ug/l
RT: 10.306 min Scan# 1420
Delta R.T. -0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 75 Resp: 81897

Ion	Ratio	Lower	Upper
75	100		
77	32.4	25.0	37.4
39	54.4	43.1	64.7

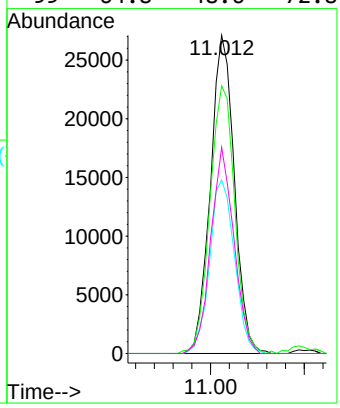




#55
1,1,2-Trichloroethane
Concen: 21.025 ug/l
RT: 11.012 min Scan# 15
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 97 Resp: 48039

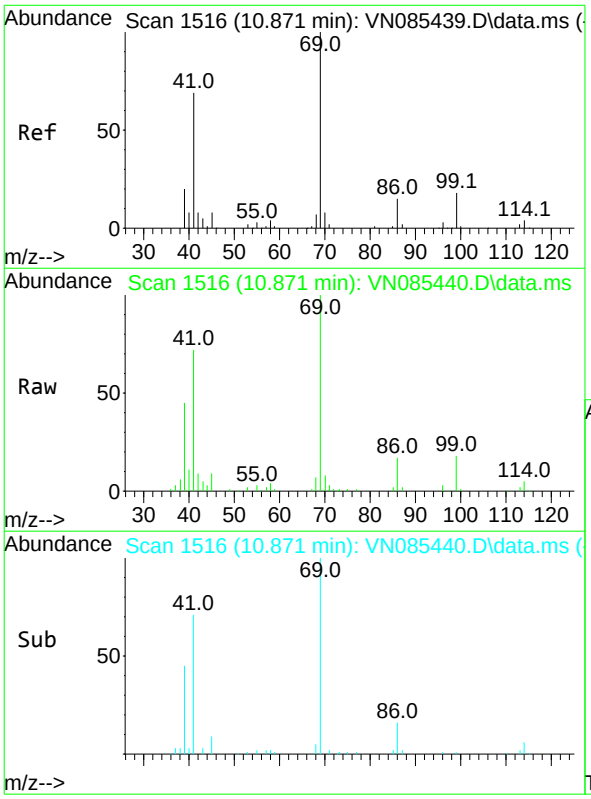
Ion	Ratio	Lower	Upper
97	100		
83	84.1	69.0	103.6
85	54.6	44.6	66.8
99	64.8	48.6	72.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

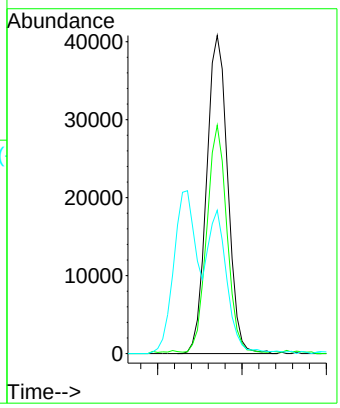
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

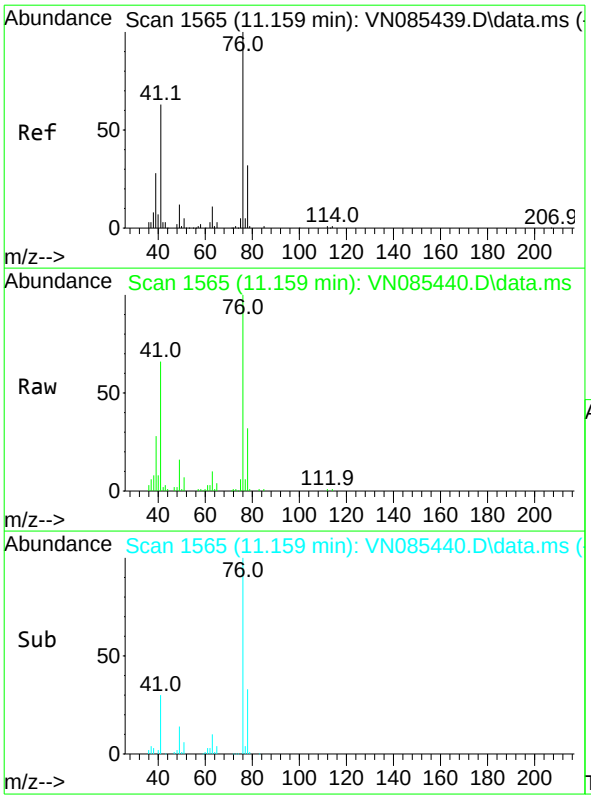


#56
Ethyl methacrylate
Concen: 19.649 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 69 Resp: 70934

Ion	Ratio	Lower	Upper
69	100		
41	67.6	54.6	82.0
39	41.7	32.4	48.6

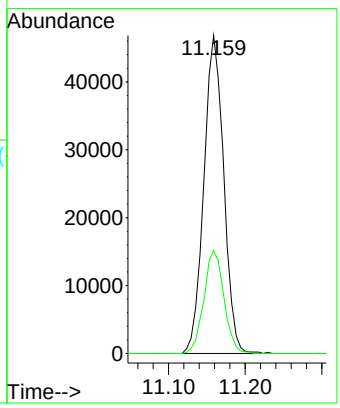




#57
1,3-Dichloropropane
Concen: 21.196 ug/l
RT: 11.159 min Scan# 15
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 76 Resp: 84210

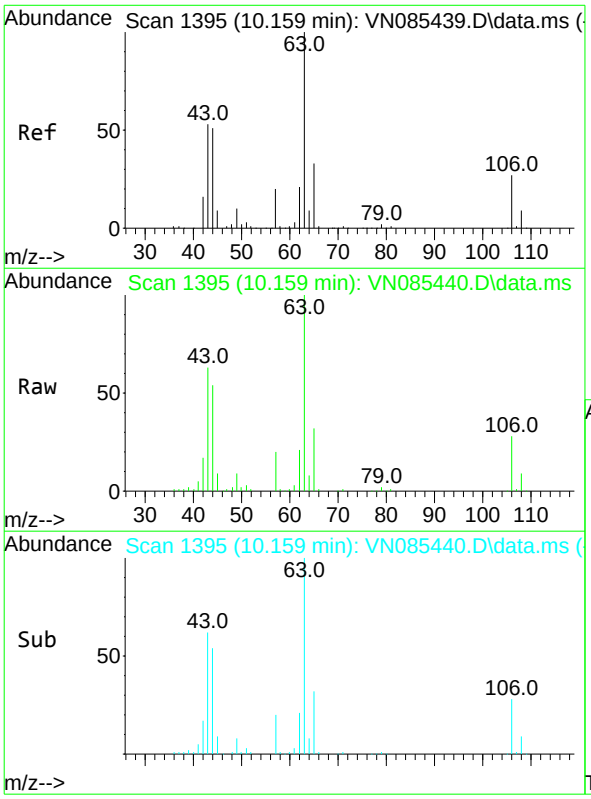
Ion	Ratio	Lower	Upper
76	100		
78	32.7	25.6	38.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

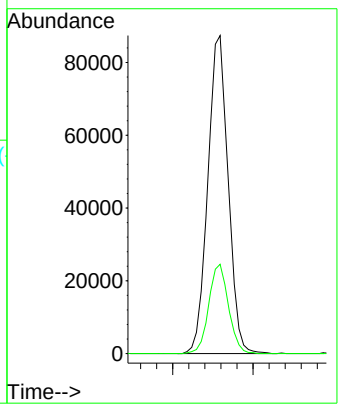
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

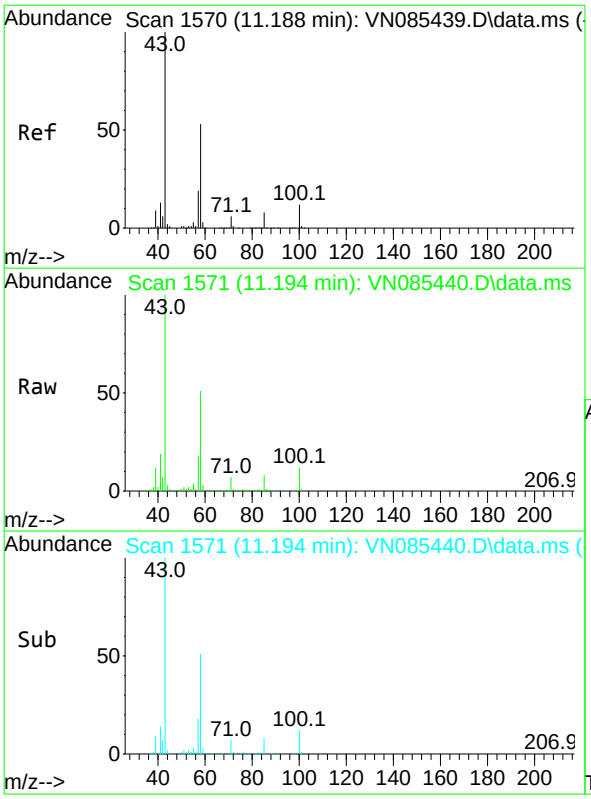


#58
2-Chloroethyl Vinyl ether
Concen: 105.991 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 63 Resp: 153681

Ion	Ratio	Lower	Upper
63	100		
106	27.2	21.6	32.4

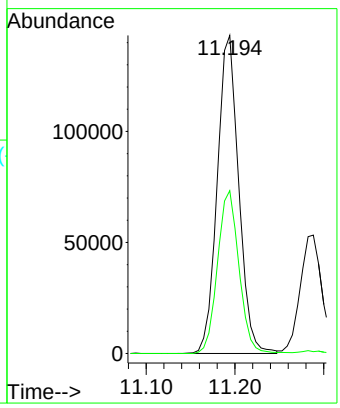




#59
2-Hexanone
Concen: 109.863 ug/l
RT: 11.194 min Scan# 15
Delta R.T. 0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 43 Resp: 240595

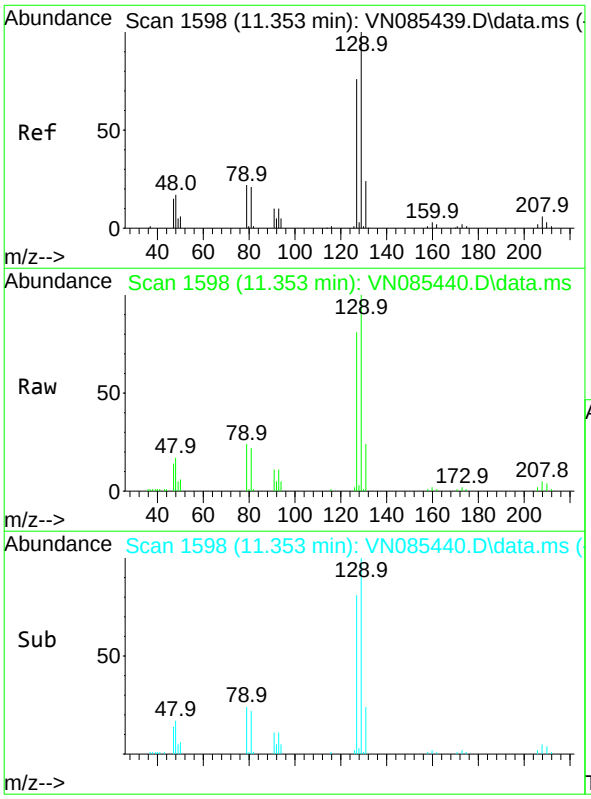
Ion	Ratio	Lower	Upper
43	100		
58	51.1	26.2	78.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

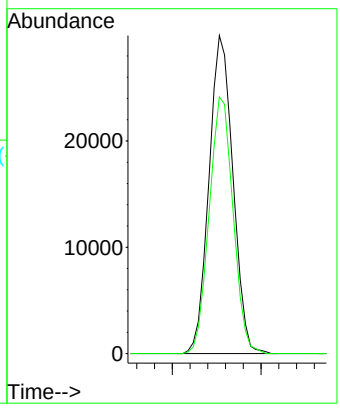
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

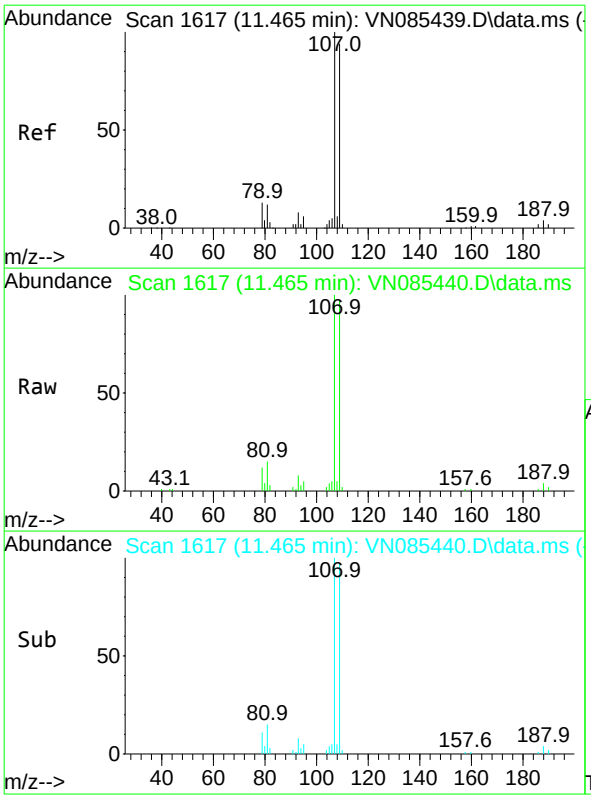


#60
Dibromochloromethane
Concen: 20.326 ug/l
RT: 11.353 min Scan# 1598
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:129 Resp: 56069

Ion	Ratio	Lower	Upper
129	100		
127	80.4	38.6	115.8

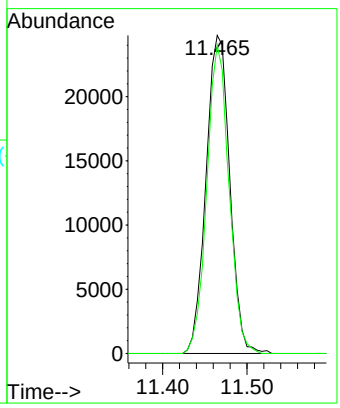




#61
1,2-Dibromoethane
Concen: 21.309 ug/l
RT: 11.465 min Scan# 16
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:107 Resp: 48465

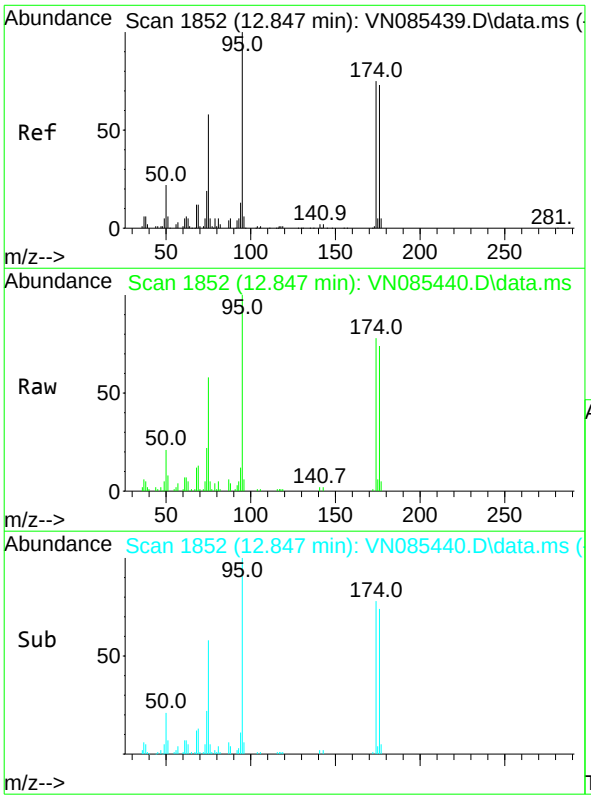
Ion	Ratio	Lower	Upper
107	100		
109	90.6	75.9	113.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

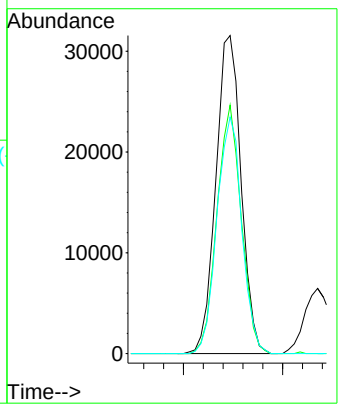
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

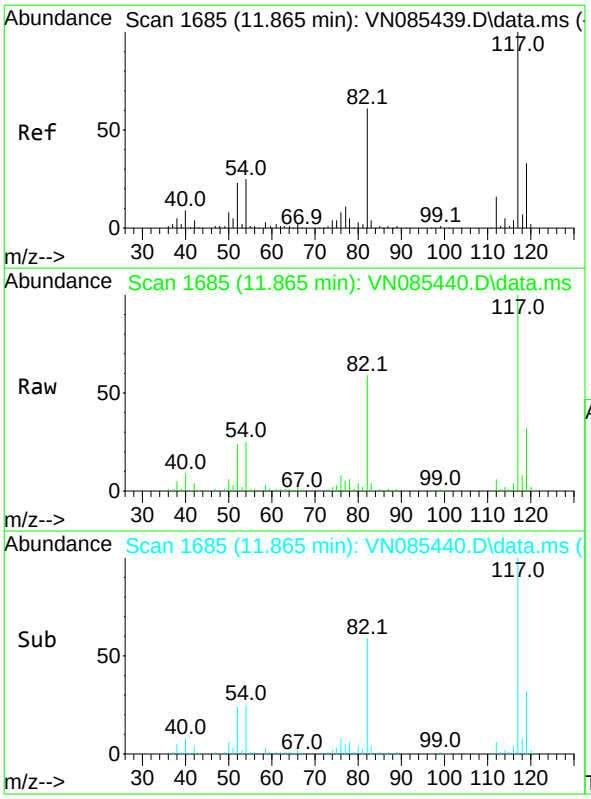


#62
4-Bromofluorobenzene
Concen: 19.430 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 95 Resp: 55798

Ion	Ratio	Lower	Upper
95	100		
174	75.2	0.0	145.0
176	73.2	0.0	142.4

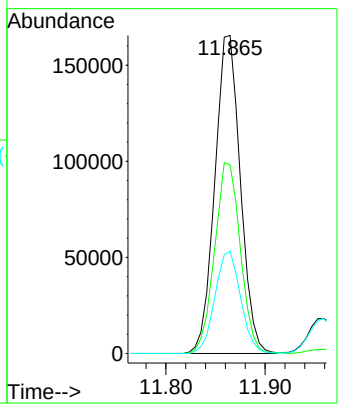




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 16
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:117 Resp: 296298

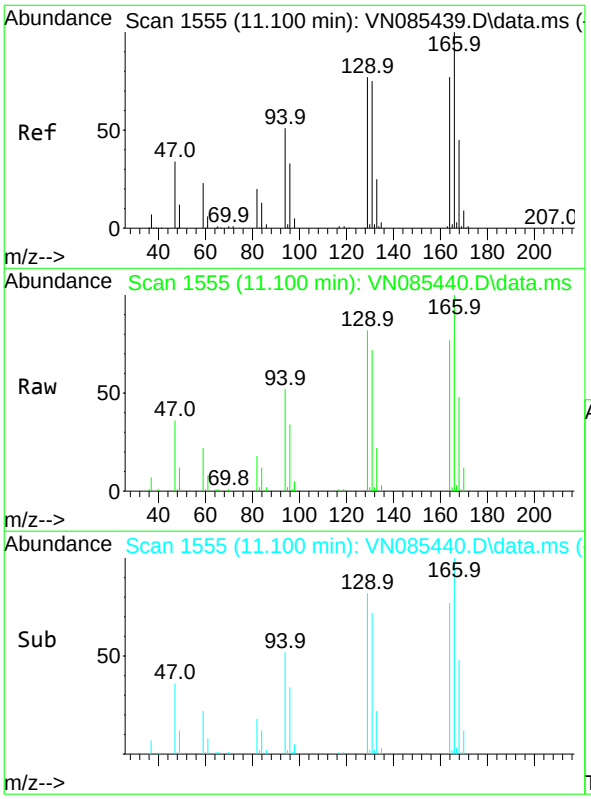
Ion	Ratio	Lower	Upper
117	100		
82	59.3	48.6	72.8
119	32.2	26.6	39.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

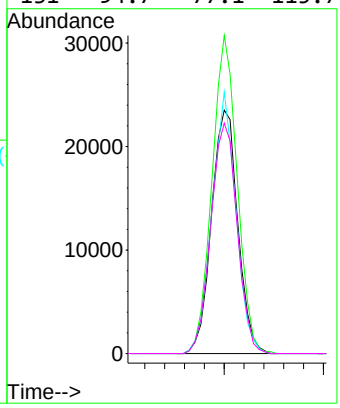
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

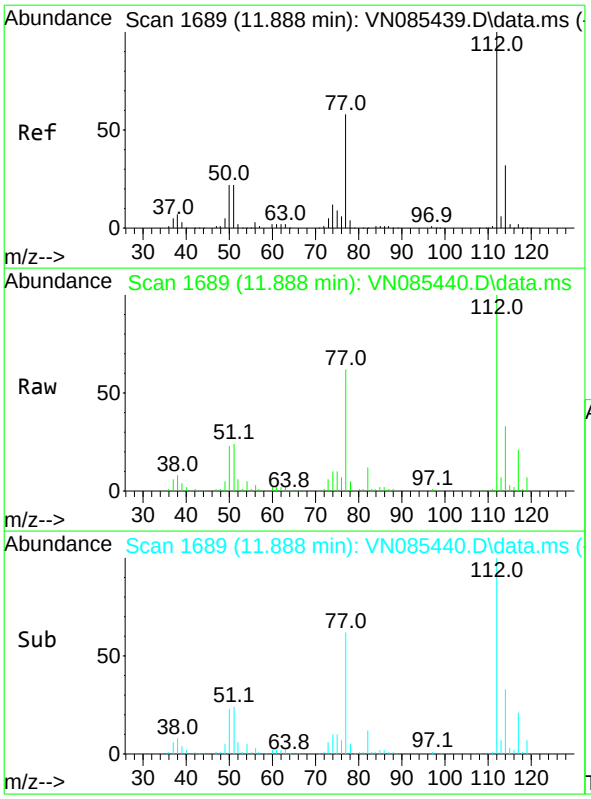


#64
Tetrachloroethene
Concen: 21.408 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:164 Resp: 43243

Ion	Ratio	Lower	Upper
164	100		
166	130.6	103.4	155.2
129	107.4	79.2	118.8
131	94.7	77.1	115.7

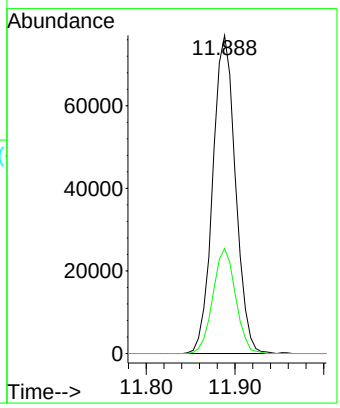




#65
Chlorobenzene
Concen: 21.077 ug/l
RT: 11.888 min Scan# 16
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:112 Resp: 136809

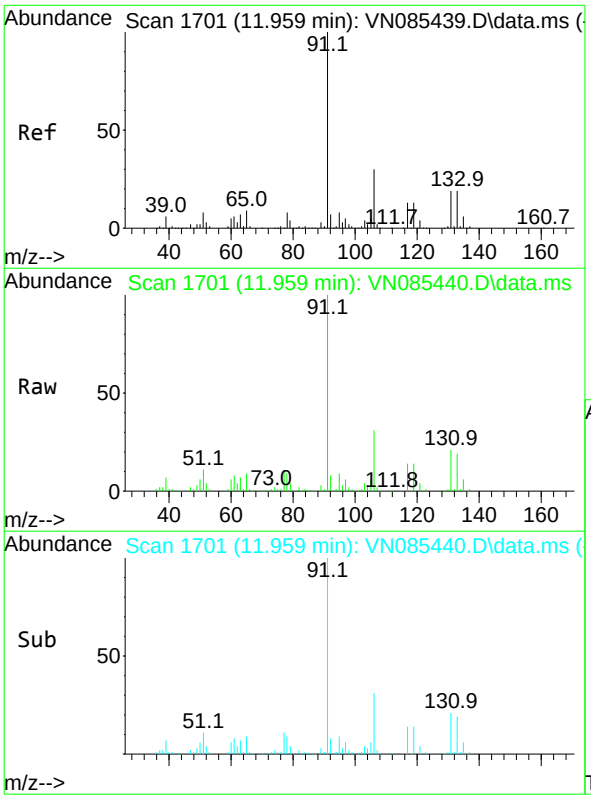
Ion	Ratio	Lower	Upper
112	100		
114	32.9	25.3	37.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

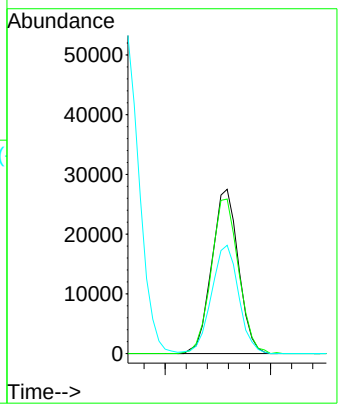
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

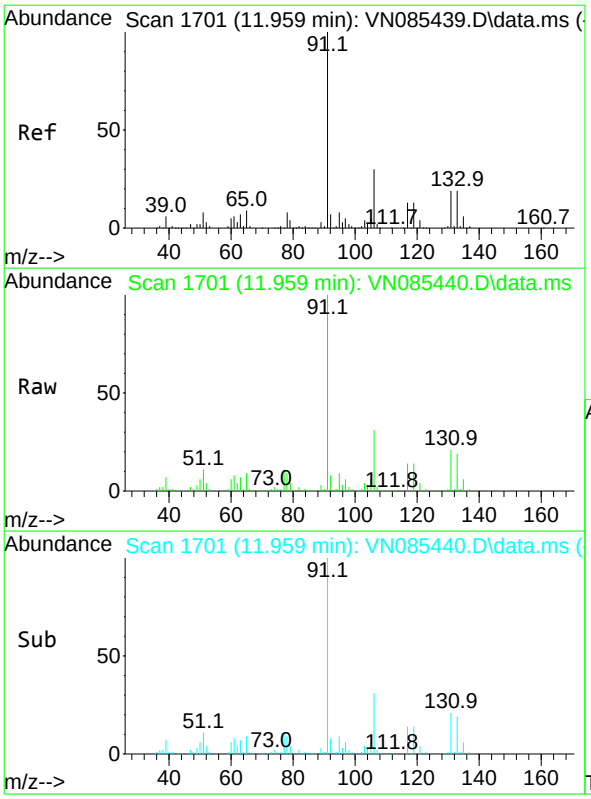


#66
1,1,1,2-Tetrachloroethane
Concen: 20.304 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:131 Resp: 48370

Ion	Ratio	Lower	Upper
131	100		
133	96.9	47.4	142.3
119	67.2	33.1	99.5

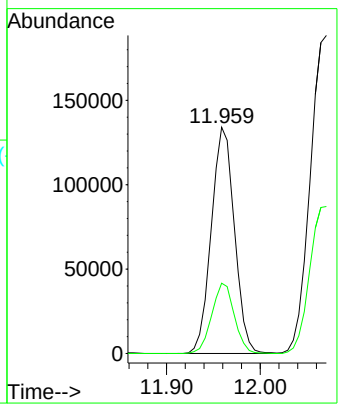




#67
Ethyl Benzene
Concen: 21.753 ug/l
RT: 11.959 min Scan# 17
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 91 Resp: 229978

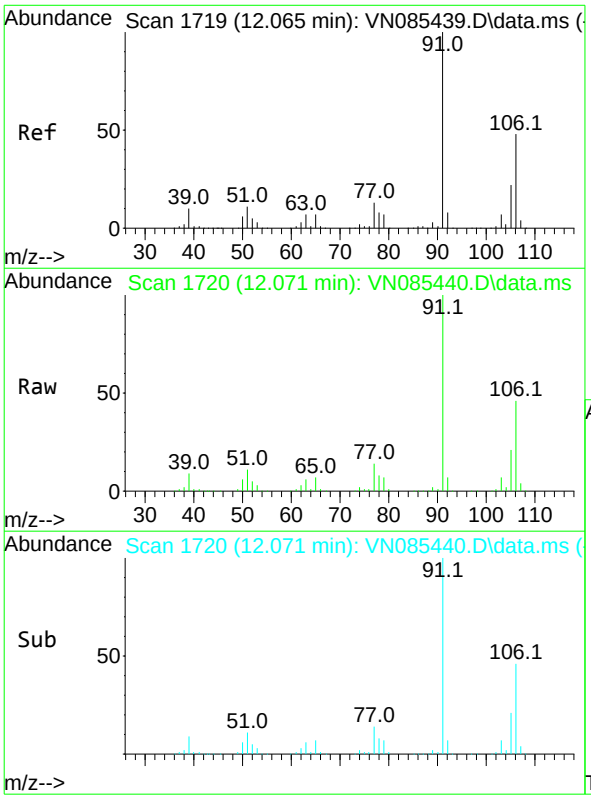
Ion	Ratio	Lower	Upper
91	100		
106	31.1	23.8	35.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

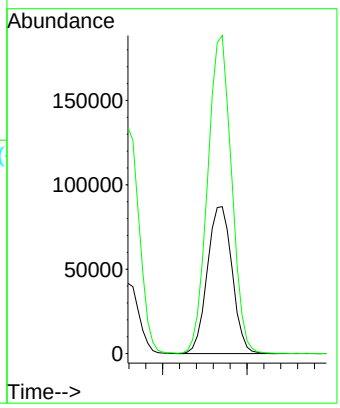
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

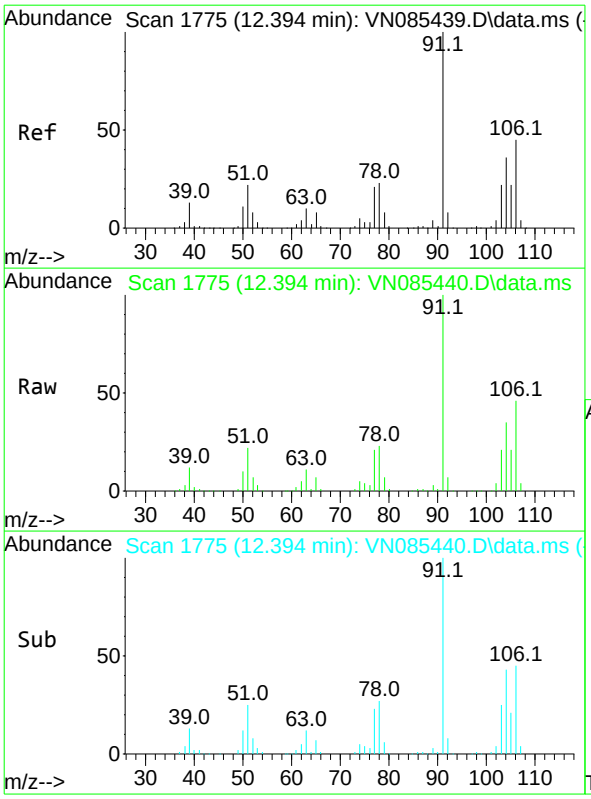


#68
m/p-Xylenes
Concen: 45.494 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. 0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:106 Resp: 177755

Ion	Ratio	Lower	Upper
106	100		
91	209.3	167.7	251.5

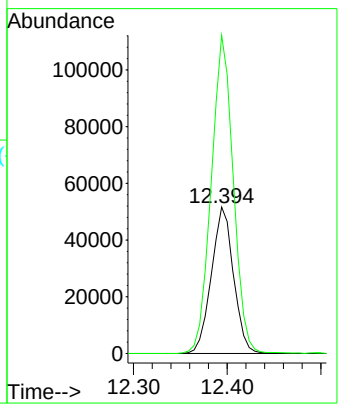




#69
o-Xylene
Concen: 22.643 ug/l
RT: 12.394 min Scan# 17
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:106 Resp: 84548

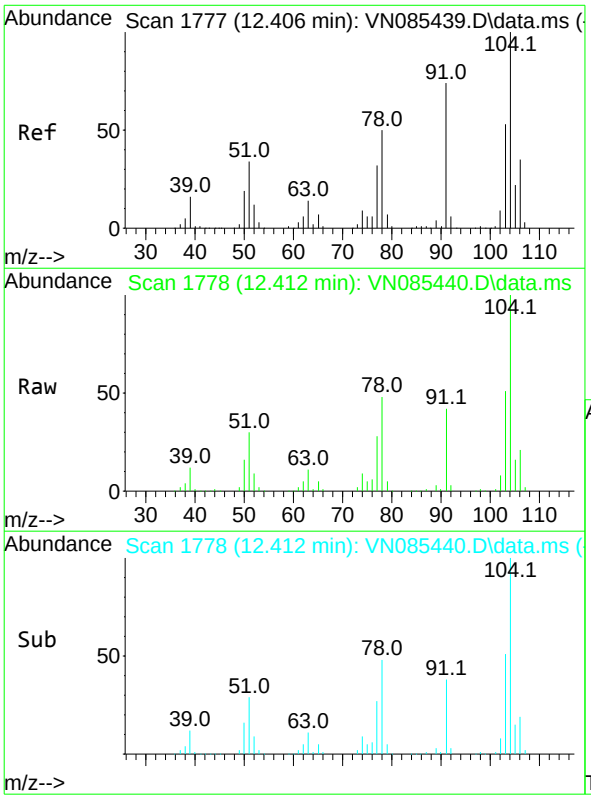
Ion	Ratio	Lower	Upper
106	100		
91	217.0	110.4	331.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

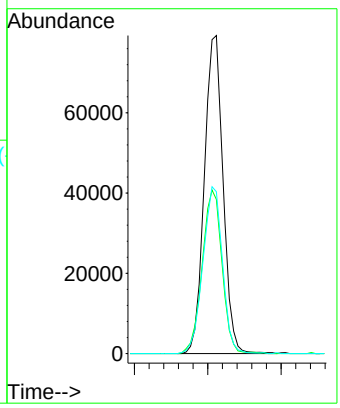
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

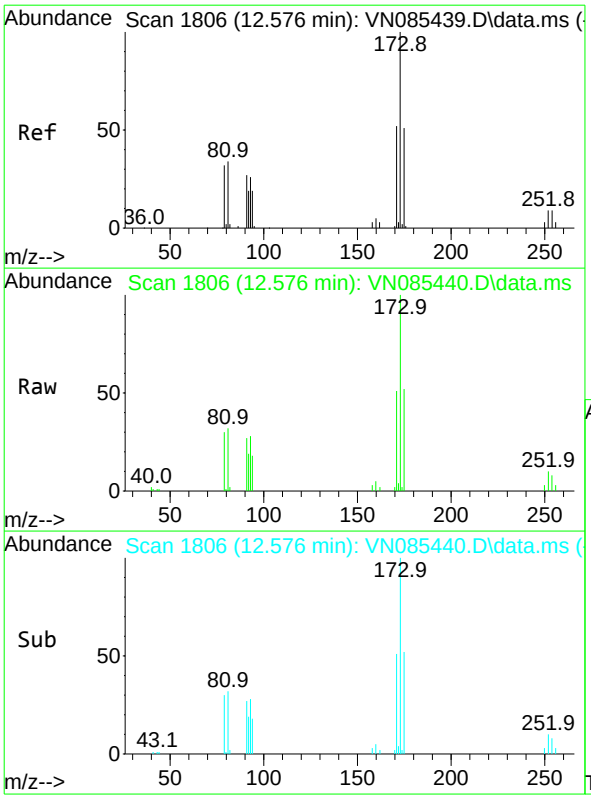


#70
Styrene
Concen: 22.749 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. 0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:104 Resp: 140581

Ion	Ratio	Lower	Upper
104	100		
78	54.4	42.5	63.7
103	54.8	43.8	65.8

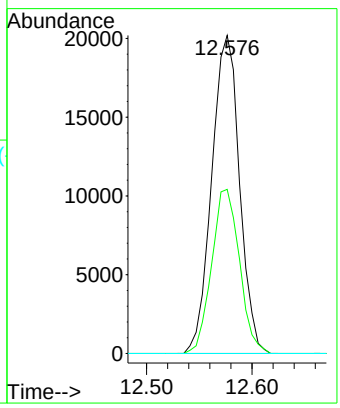




#71
Bromoform
Concen: 21.683 ug/l
RT: 12.576 min Scan# 18
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:173 Resp: 36961

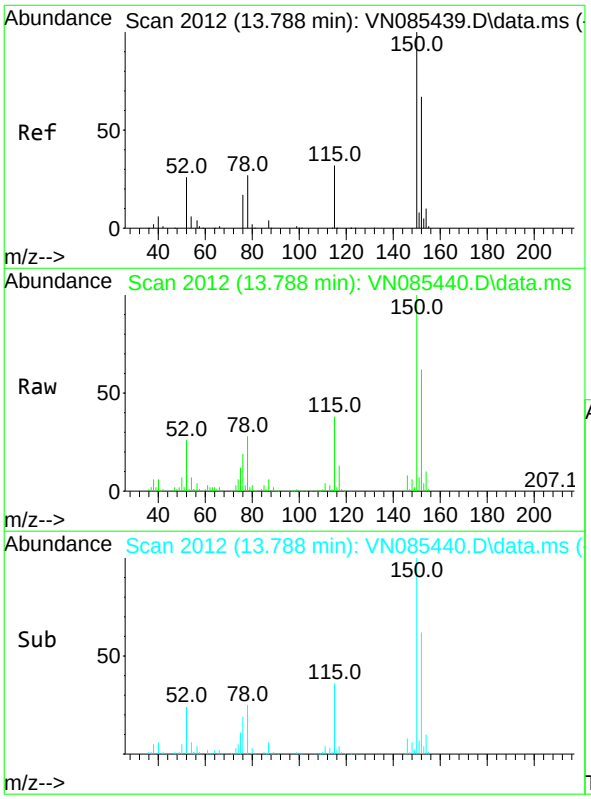
Ion	Ratio	Lower	Upper
173	100		
175	51.7	24.4	73.2
254	0.0	0.0	0.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

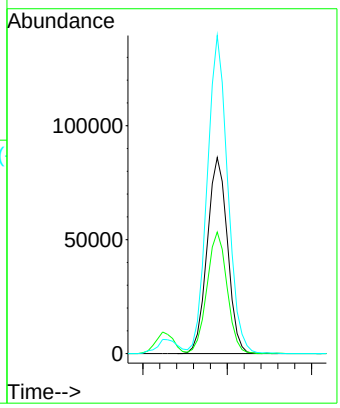
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

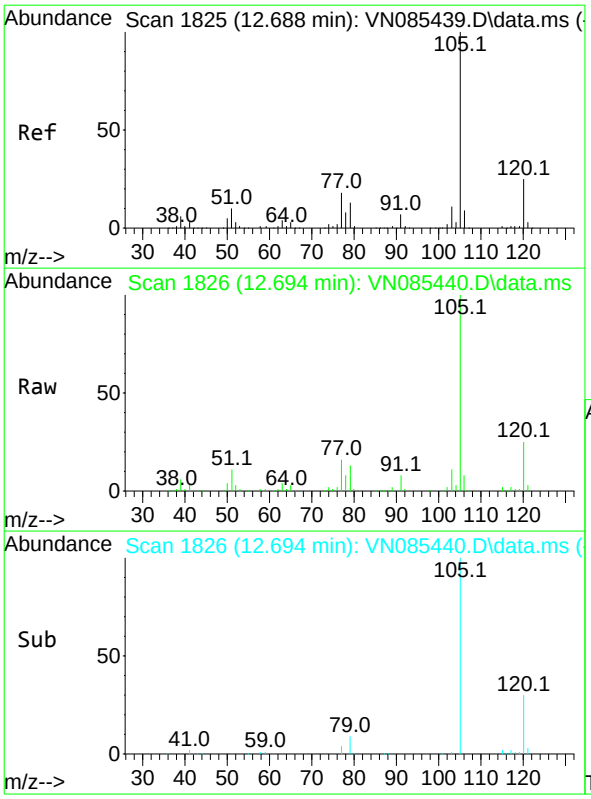


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:152 Resp: 143526

Ion	Ratio	Lower	Upper
152	100		
115	61.4	31.1	93.3
150	163.9	0.0	343.6

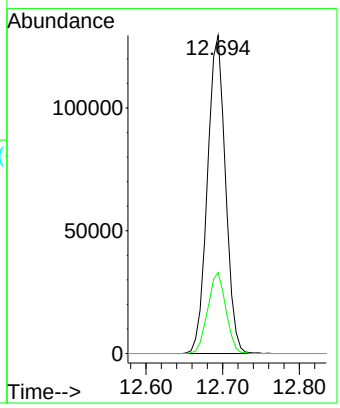




#73
Isopropylbenzene
Concen: 21.819 ug/l
RT: 12.694 min Scan# 18
Delta R.T. 0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:105 Resp: 211354

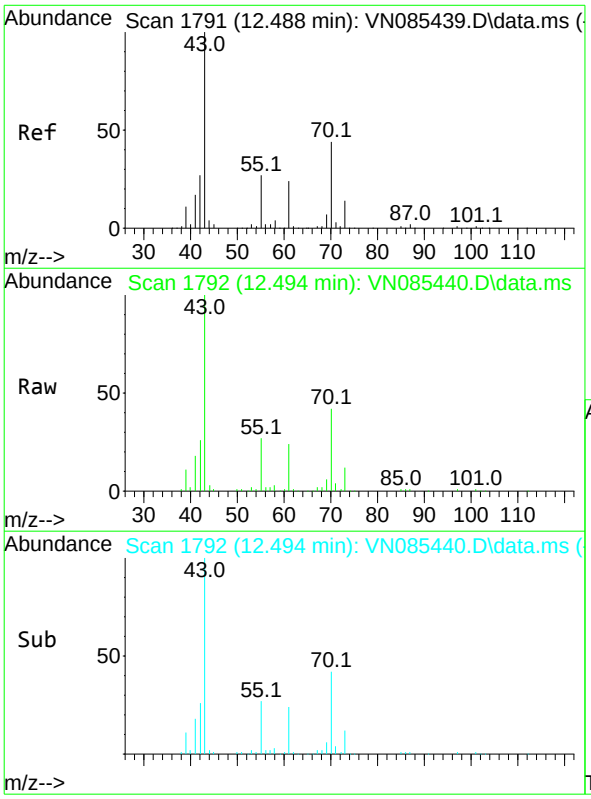
Ion	Ratio	Lower	Upper
105	100		
120	25.5	12.8	38.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

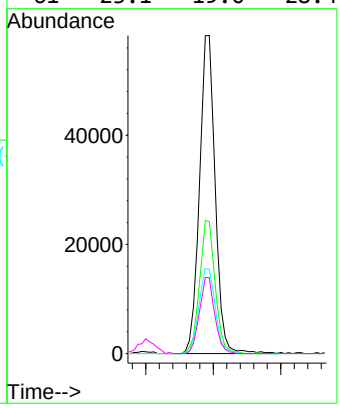
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

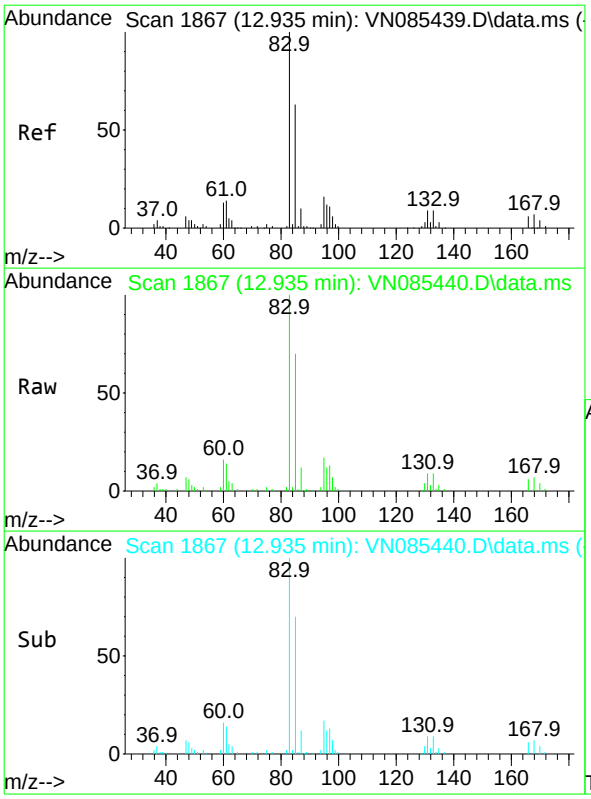


#74
N-amyl acetate
Concen: 21.656 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. 0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 43 Resp: 94292

Ion	Ratio	Lower	Upper
43	100		
70	41.4	34.0	51.0
55	27.9	21.4	32.2
61	23.1	19.0	28.4

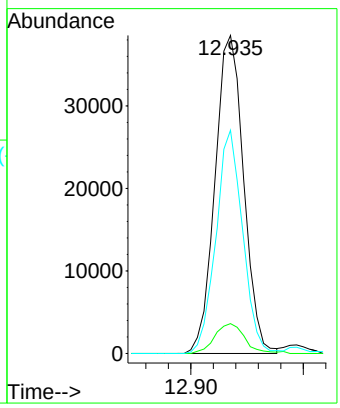




#75
1,1,2,2-Tetrachloroethane
Concen: 19.917 ug/l
RT: 12.935 min Scan# 18
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 83 Resp: 68151

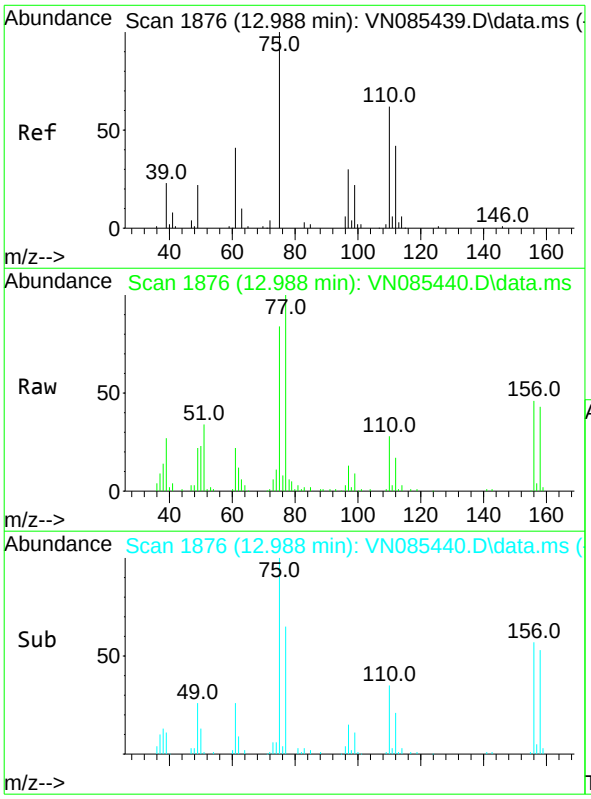
Ion	Ratio	Lower	Upper
83	100		
131	9.9	4.8	14.4
85	65.5	32.2	96.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

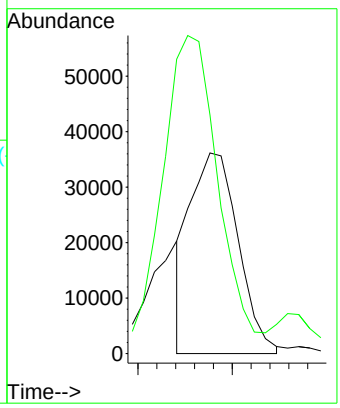
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

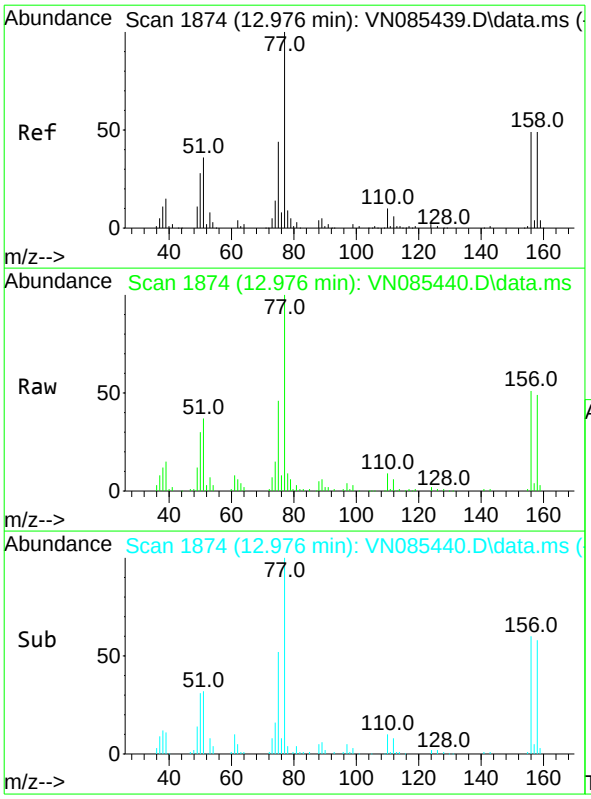


#76
1,2,3-Trichloropropane
Concen: 22.036 ug/l m
RT: 12.988 min Scan# 1876
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 75 Resp: 64180

Ion	Ratio	Lower	Upper
75	100		
77	186.8	109.7	329.2

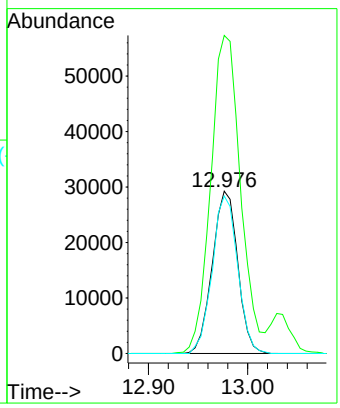




#77
Bromobenzene
Concen: 20.556 ug/l
RT: 12.976 min Scan# 18
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:156 Resp: 52022

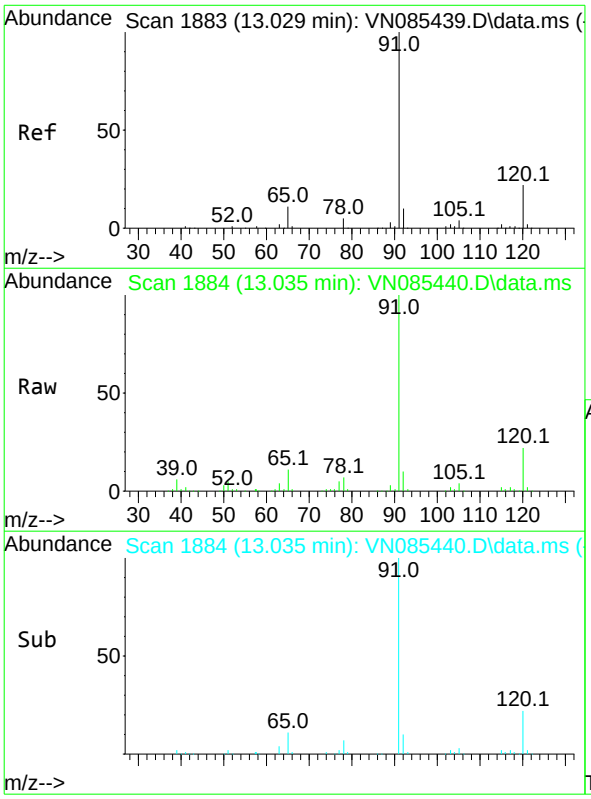
Ion	Ratio	Lower	Upper
156	100		
77	230.4	114.1	342.4
158	97.0	48.9	146.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

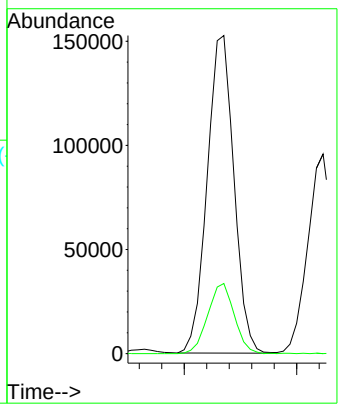
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

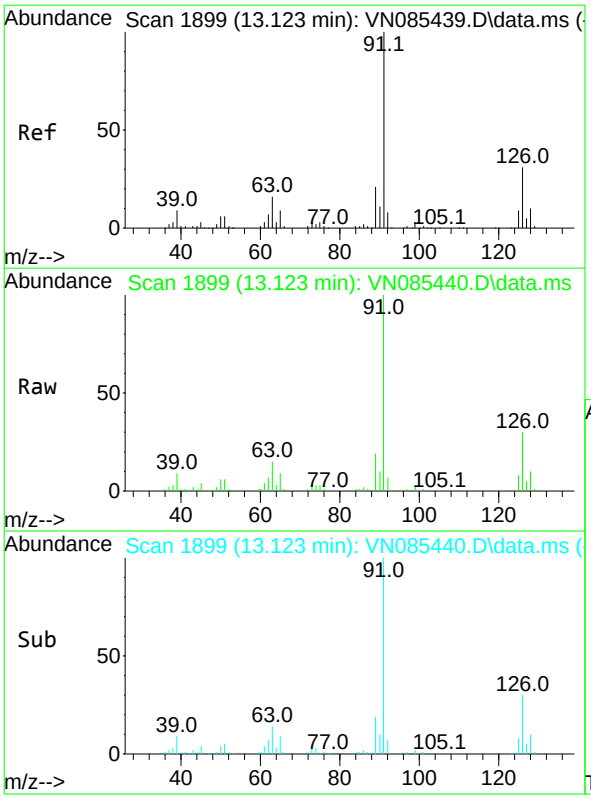


#78
n-propylbenzene
Concen: 22.028 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 91 Resp: 252610

Ion	Ratio	Lower	Upper
91	100		
120	21.8	10.9	32.6

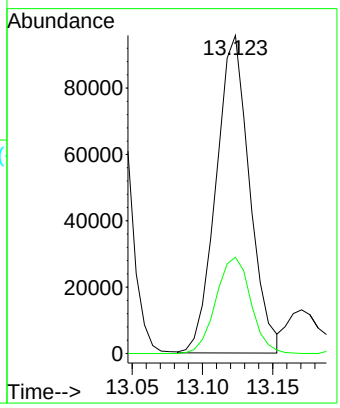




#79
2-Chlorotoluene
Concen: 21.358 ug/l
RT: 13.123 min Scan# 18
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 91 Resp: 158511

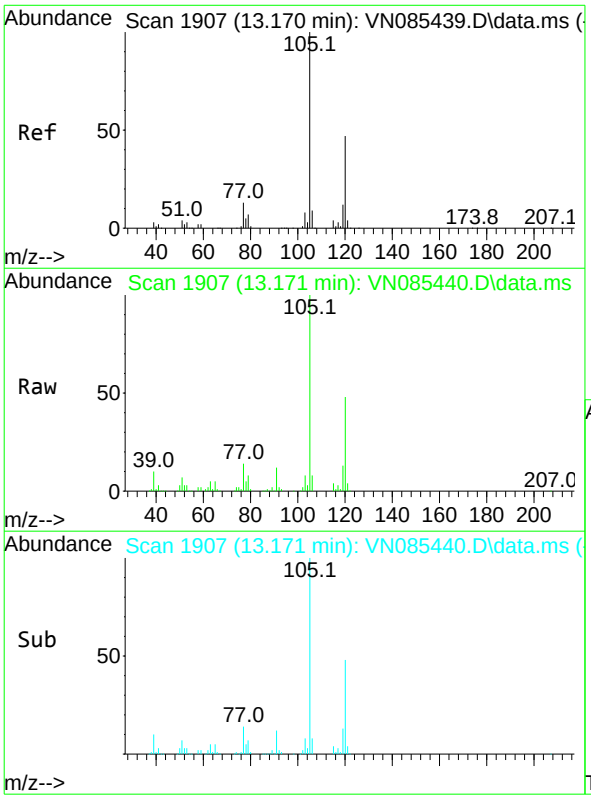
Ion	Ratio	Lower	Upper
91	100		
126	31.5	15.7	47.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

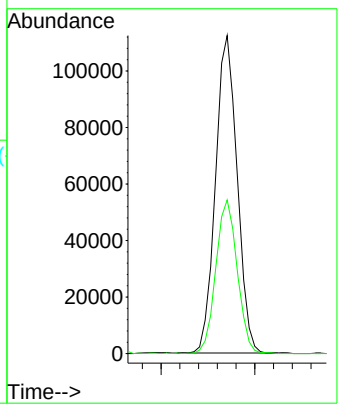
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

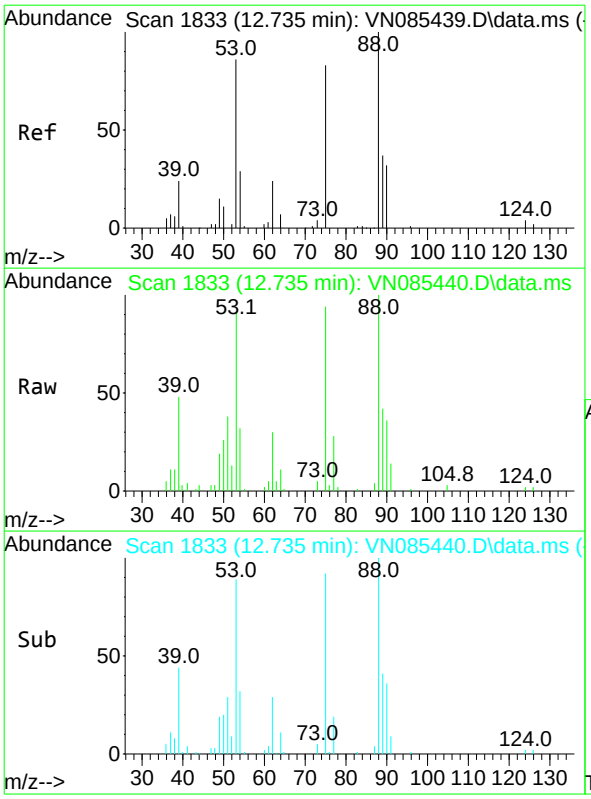


#80
1,3,5-Trimethylbenzene
Concen: 22.533 ug/l
RT: 13.171 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:105 Resp: 180294

Ion	Ratio	Lower	Upper
105	100		
120	47.9	23.9	71.7

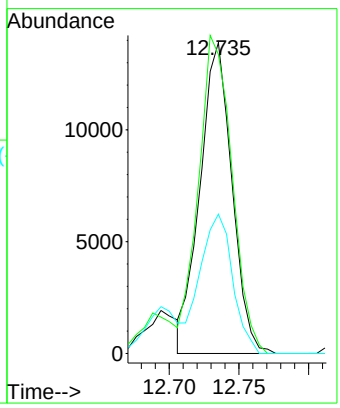




#81
trans-1,4-Dichloro-2-butene
Concen: 20.569 ug/l m
RT: 12.735 min Scan# 18
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 75 Resp: 22178

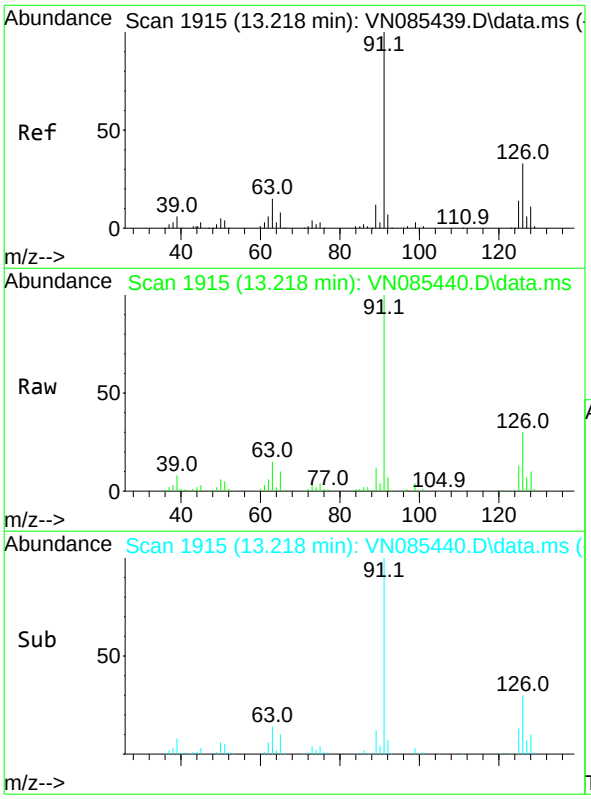
Ion	Ratio	Lower	Upper
75	100		
53	107.2	95.6	143.4
89	46.9	37.0	55.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

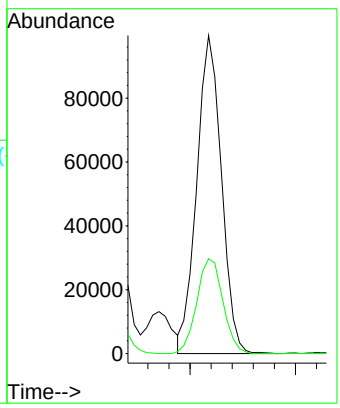
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

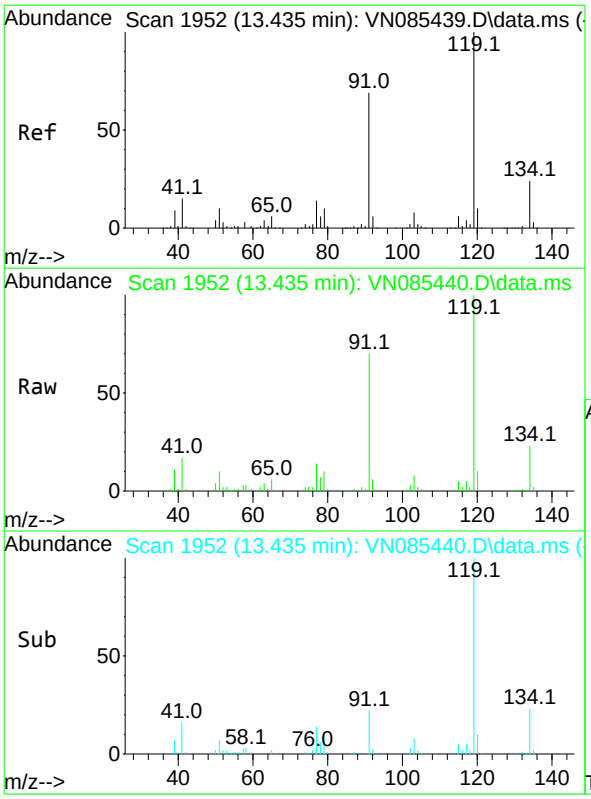


#82
4-Chlorotoluene
Concen: 21.906 ug/l
RT: 13.218 min Scan# 1915
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 91 Resp: 161880

Ion	Ratio	Lower	Upper
91	100		
126	31.6	15.9	47.7

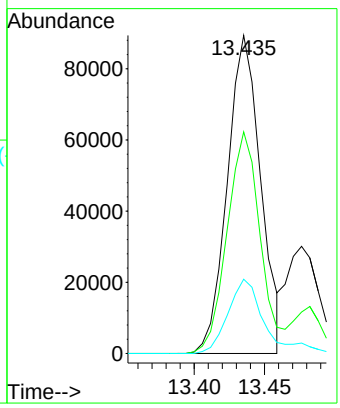




#83
tert-Butylbenzene
Concen: 21.958 ug/l
RT: 13.435 min Scan# 19
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:119 Resp: 147541

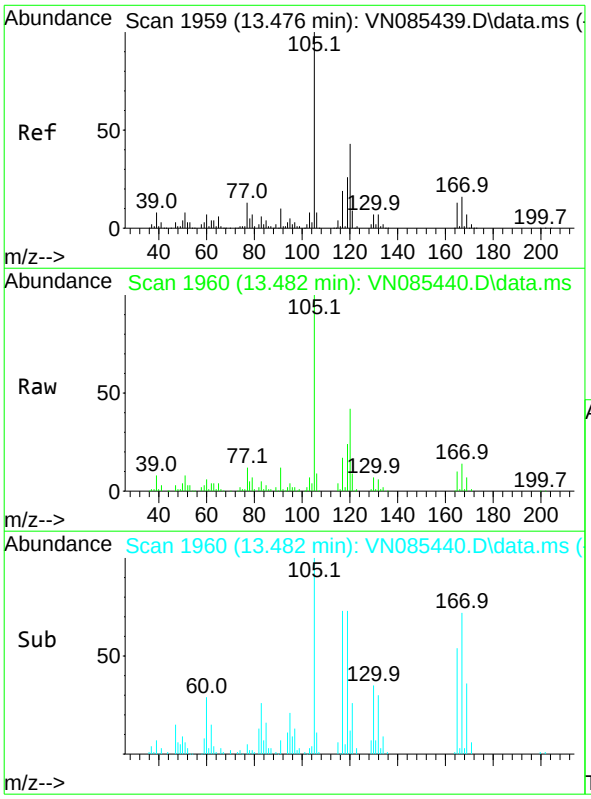
Ion	Ratio	Lower	Upper
119	100		
91	69.5	35.1	105.3
134	25.5	12.0	36.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

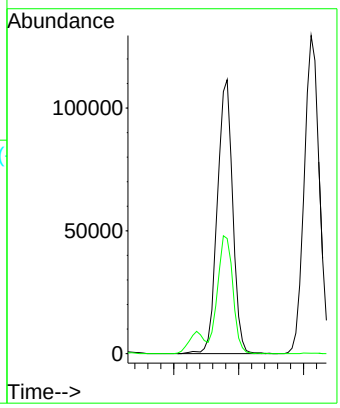
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

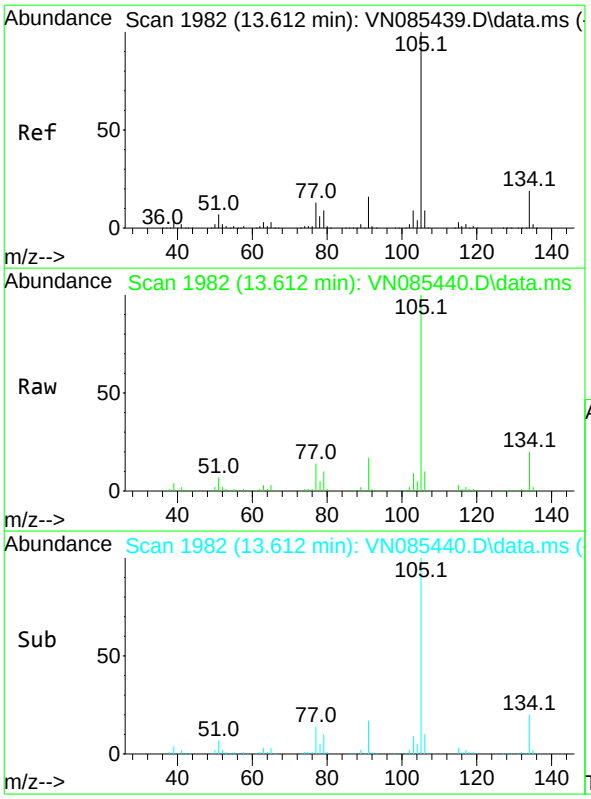


#84
1,2,4-Trimethylbenzene
Concen: 22.965 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:105 Resp: 183144

Ion	Ratio	Lower	Upper
105	100		
120	42.8	21.6	65.0

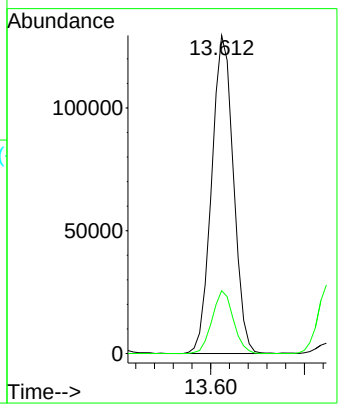




#85
sec-Butylbenzene
Concen: 22.457 ug/l
RT: 13.612 min Scan# 19
Delta R.T. -0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:105 Resp: 209133

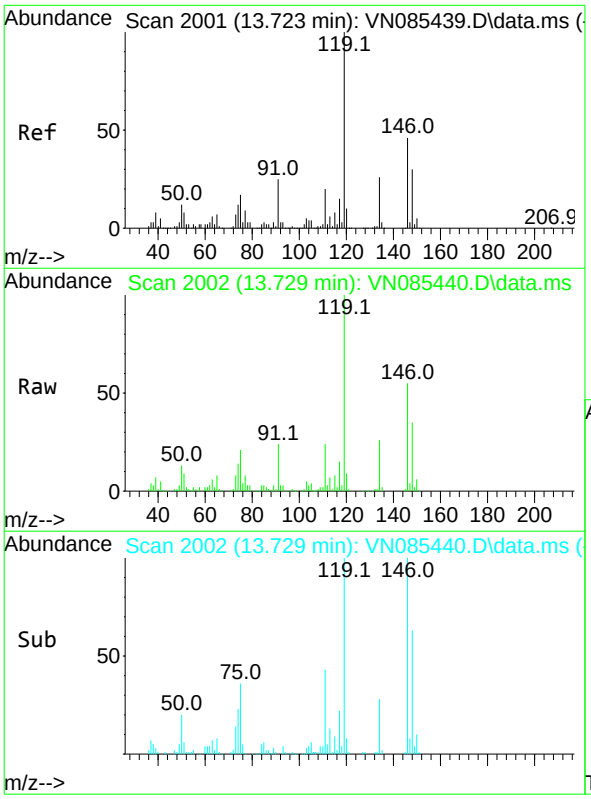
Ion	Ratio	Lower	Upper
105	100		
134	19.2	9.7	28.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

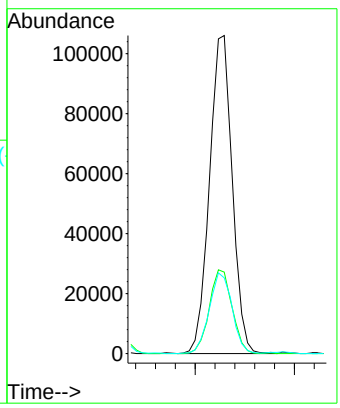
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

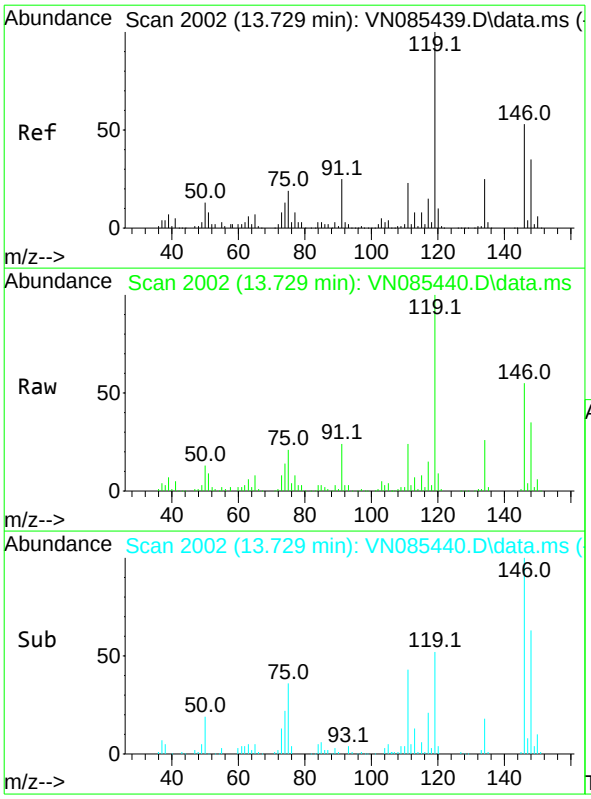


#86
p-Isopropyltoluene
Concen: 21.661 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:119 Resp: 168888

Ion	Ratio	Lower	Upper
119	100		
134	26.4	12.7	38.0
91	25.5	12.7	38.1

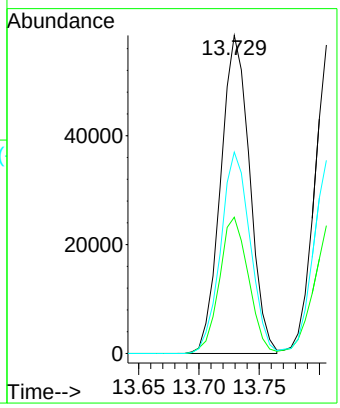




#87
1,3-Dichlorobenzene
Concen: 20.952 ug/l
RT: 13.729 min Scan# 20
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:146 Resp: 97652

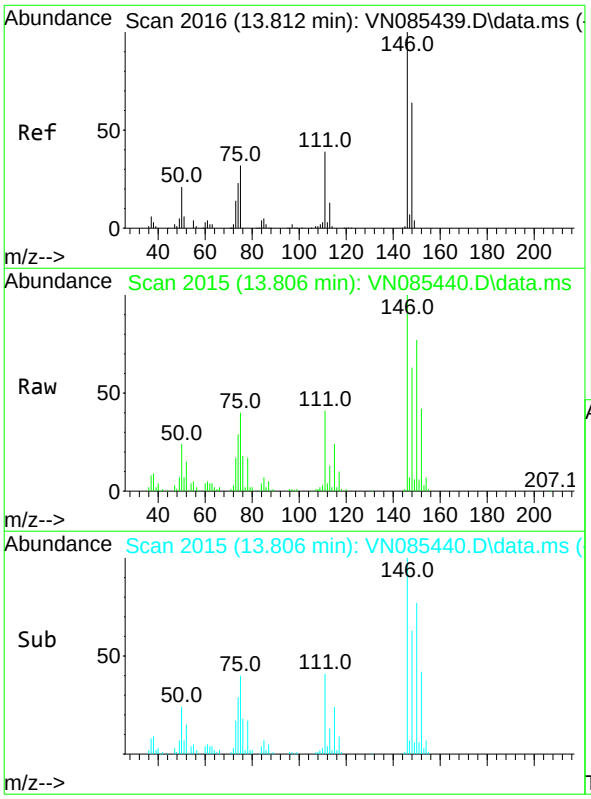
Ion	Ratio	Lower	Upper
146	100		
111	42.9	21.4	64.3
148	64.3	32.3	96.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

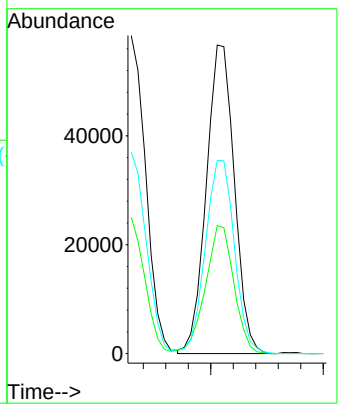
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

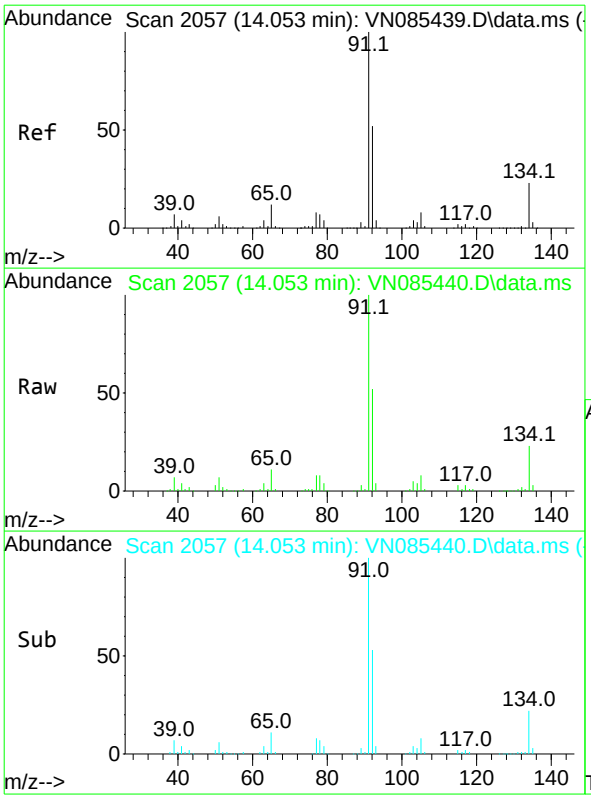


#88
1,4-Dichlorobenzene
Concen: 20.351 ug/l
RT: 13.806 min Scan# 2015
Delta R.T. -0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:146 Resp: 98321

Ion	Ratio	Lower	Upper
146	100		
111	42.2	21.3	63.7
148	65.1	32.4	97.0

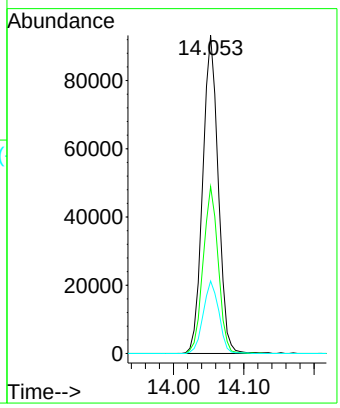




#89
n-Butylbenzene
Concen: 21.355 ug/l
RT: 14.053 min Scan# 20
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 91 Resp: 142673

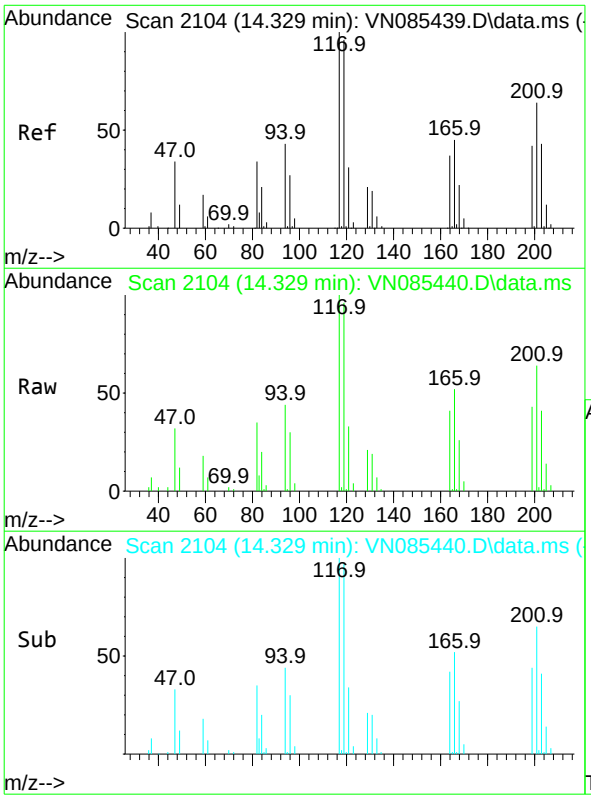
Ion	Ratio	Lower	Upper
91	100		
92	51.0	25.8	77.3
134	23.0	11.7	35.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

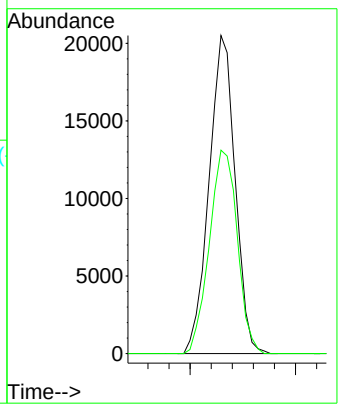
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

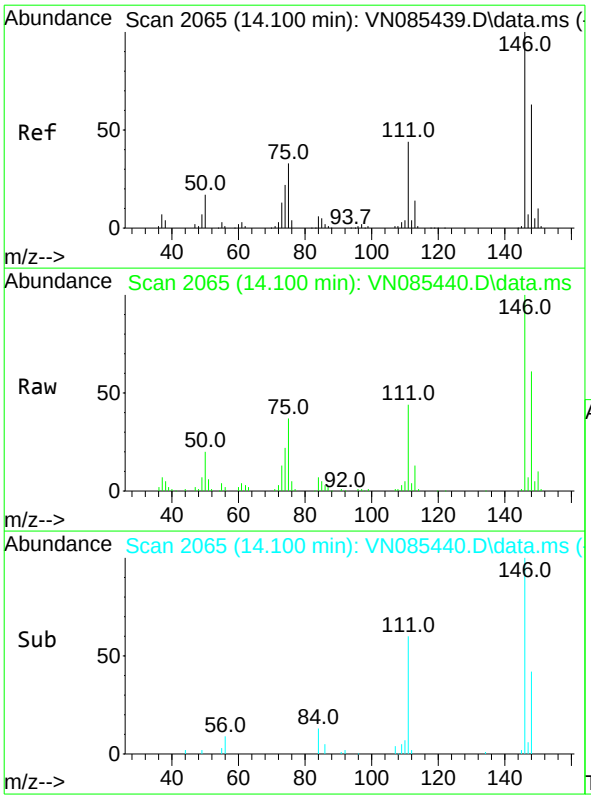


#90
Hexachloroethane
Concen: 19.858 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:117 Resp: 35205

Ion	Ratio	Lower	Upper
117	100		
201	68.8	33.7	101.0

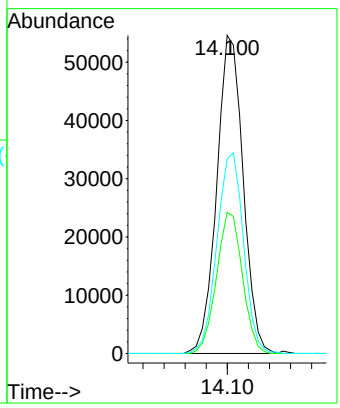




#91
1,2-Dichlorobenzene
Concen: 20.425 ug/l
RT: 14.100 min Scan# 20
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:146 Resp: 94954

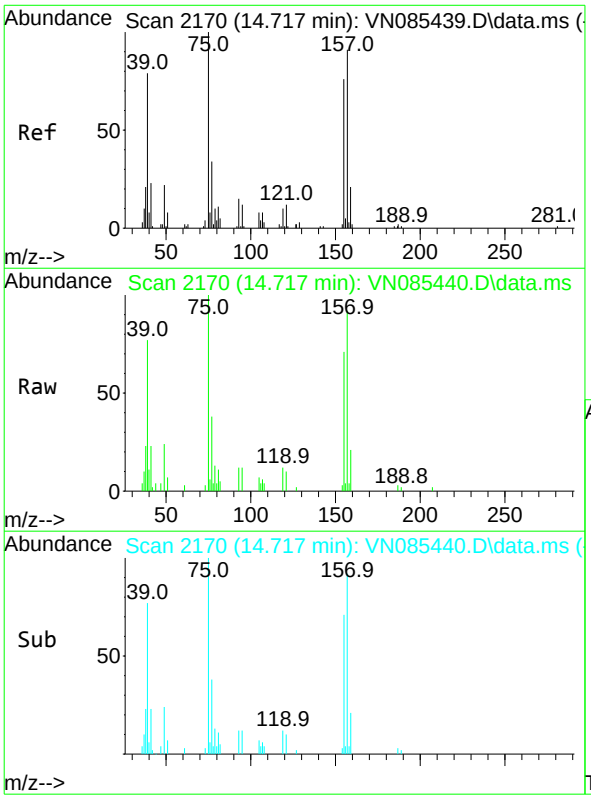
Ion	Ratio	Lower	Upper
146	100		
111	43.5	21.7	65.1
148	63.5	31.4	94.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

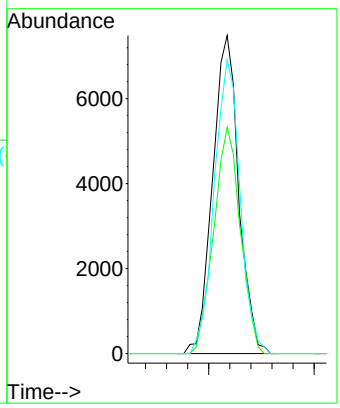
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

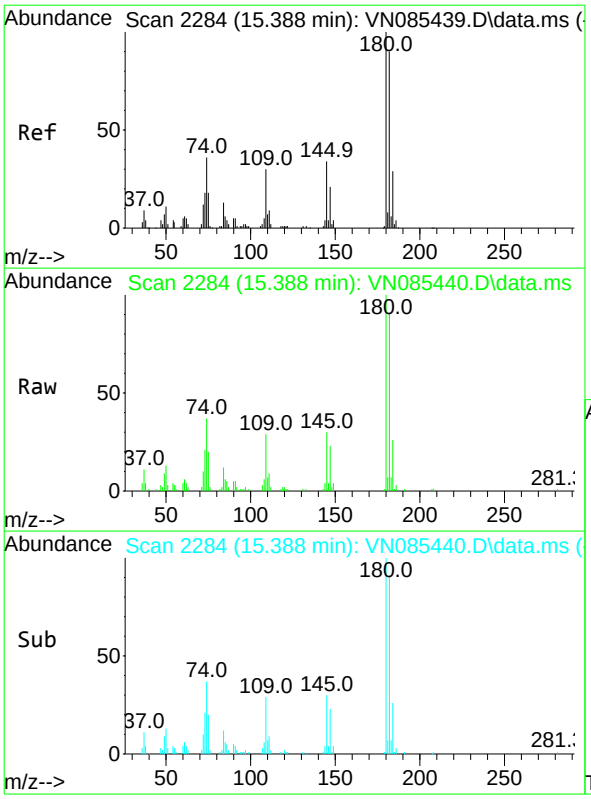


#92
1,2-Dibromo-3-Chloropropane
Concen: 20.580 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 75 Resp: 12859

Ion	Ratio	Lower	Upper
75	100		
155	72.7	36.4	109.2
157	90.9	45.4	136.1

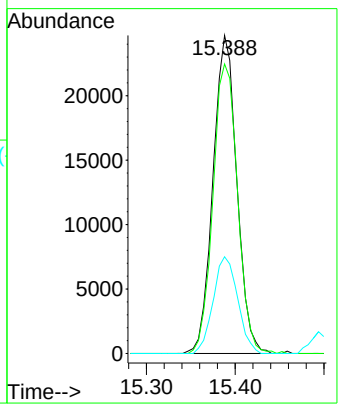




#93
1,2,4-Trichlorobenzene
Concen: 21.233 ug/l
RT: 15.388 min Scan# 22
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:180 Resp: 45878

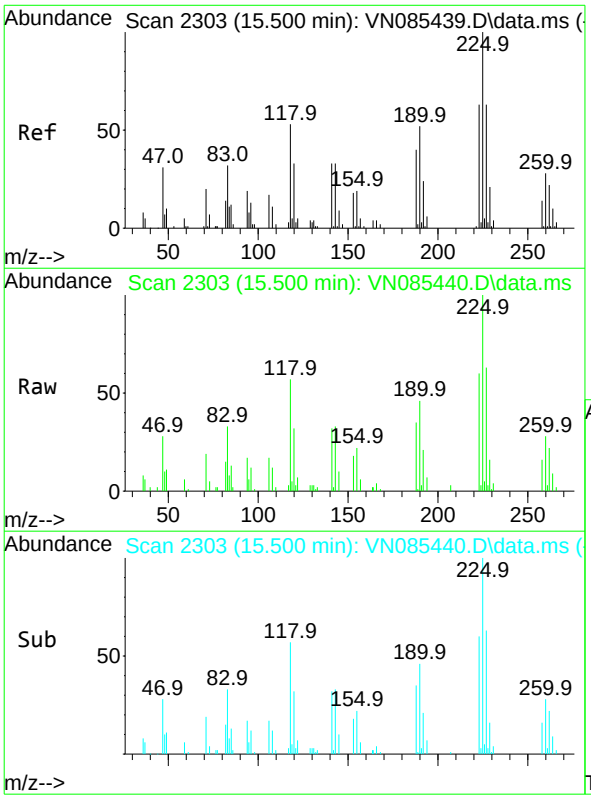
Ion	Ratio	Lower	Upper
180	100		
182	94.2	46.8	140.3
145	31.4	16.0	48.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

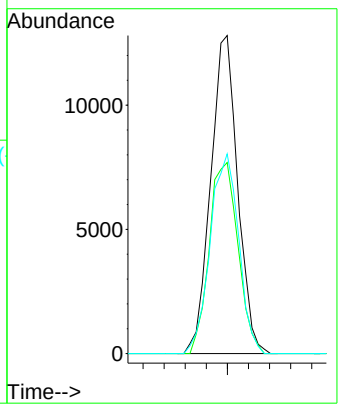
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

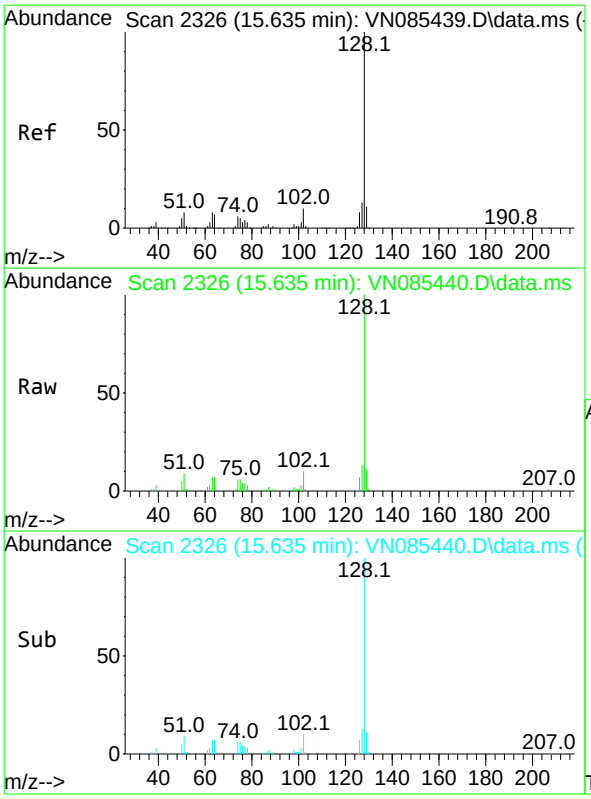


#94
Hexachlorobutadiene
Concen: 19.805 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:225 Resp: 22719

Ion	Ratio	Lower	Upper
225	100		
223	64.3	30.7	92.1
227	66.3	30.9	92.5

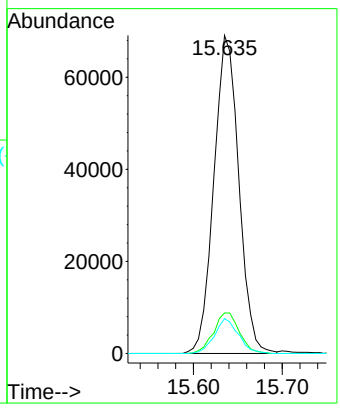




#95
Naphthalene
Concen: 20.906 ug/l
RT: 15.635 min Scan# 23
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:128 Resp: 134793

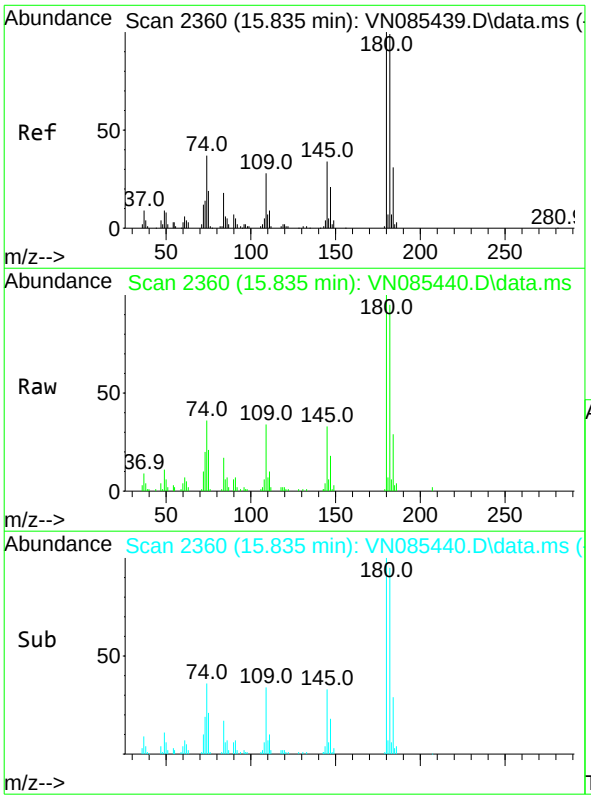
Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.6	16.0
129	10.6	8.8	13.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

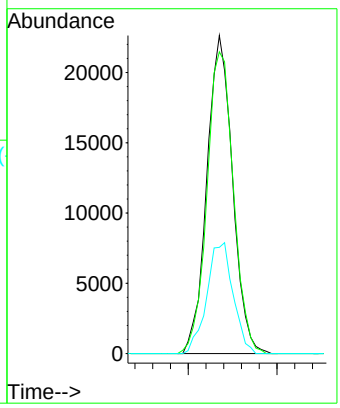
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#96
1,2,3-Trichlorobenzene
Concen: 20.797 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:180 Resp: 45468

Ion	Ratio	Lower	Upper
180	100		
182	97.9	47.4	142.2
145	35.7	16.9	50.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085441.D
Acq On : 14 Jan 2025 16:07
Operator : JC\MD
Sample : VSTDICC010
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 15 01:44:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	195889	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	340403	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	294508	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	132934	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	29856	9.442	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 18.880%#			
35) Dibromofluoromethane	8.165	113	21110	8.939	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 17.880%#			
50) Toluene-d8	10.565	98	73223	8.727	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 17.460%#			
62) 4-Bromofluorobenzene	12.847	95	24327	8.476	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 16.960%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	26124	9.850	ug/l	96
3) Chloromethane	2.359	50	27143	9.452	ug/l	99
4) Vinyl Chloride	2.512	62	27862	9.653	ug/l	100
5) Bromomethane	2.965	94	17139	9.830	ug/l	87
6) Chloroethane	3.130	64	16791	9.175	ug/l	96
7) Trichlorofluoromethane	3.501	101	40755	9.731	ug/l	98
8) Diethyl Ether	3.953	74	12415	8.581	ug/l	94
9) 1,1,2-Trichlorotrifluo...	4.371	101	22982	9.742	ug/l	98
10) Methyl Iodide	4.589	142	25085	9.286	ug/l	99
11) Tert butyl alcohol	5.512	59	17962	49.608	ug/l	97
12) 1,1-Dichloroethene	4.342	96	20615	9.806	ug/l	99
13) Acrolein	4.177	56	25568	51.729	ug/l	99
14) Allyl chloride	5.018	41	32240	9.451	ug/l	97
15) Acrylonitrile	5.712	53	53959	46.918	ug/l	98
16) Acetone	4.424	43	48475	47.446	ug/l	98
17) Carbon Disulfide	4.712	76	60201	9.300	ug/l #	94
18) Methyl Acetate	5.030	43	30500	9.817	ug/l	98
19) Methyl tert-butyl Ether	5.789	73	65207	9.552	ug/l	91
20) Methylene Chloride	5.277	84	23723	9.379	ug/l	96
21) trans-1,2-Dichloroethene	5.783	96	21127	9.403	ug/l	97
22) Diisopropyl ether	6.671	45	71857	9.490	ug/l	97
23) Vinyl Acetate	6.600	43	250575	47.125	ug/l	98
24) 1,1-Dichloroethane	6.565	63	43099	9.335	ug/l	95
25) 2-Butanone	7.477	43	71191	47.350	ug/l	99
26) 2,2-Dichloropropane	7.483	77	36105	9.672	ug/l	99
27) cis-1,2-Dichloroethene	7.489	96	25049	9.466	ug/l	97
28) Bromochloromethane	7.806	49	19037	8.863	ug/l	97
29) Tetrahydrofuran	7.836	42	45641	47.881	ug/l	98
30) Chloroform	7.965	83	45792	9.596	ug/l	100
31) Cyclohexane	8.253	56	40211	10.020	ug/l #	93
32) 1,1,1-Trichloroethane	8.165	97	39170	9.358	ug/l	99
36) 1,1-Dichloropropene	8.371	75	30015	9.056	ug/l	97
37) Ethyl Acetate	7.559	43	30760	9.195	ug/l	97
38) Carbon Tetrachloride	8.359	117	36015	9.492	ug/l	94
39) Methylcyclohexane	9.594	83	27721	8.900	ug/l	95
40) Benzene	8.600	78	93680	9.407	ug/l	96

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085441.D
Acq On : 14 Jan 2025 16:07
Operator : JC\MD
Sample : VSTDICC010
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 15 01:44:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.777	41	16859	9.686	ug/l		96
42) 1,2-Dichloroethane	8.665	62	35569	9.483	ug/l		99
43) Isopropyl Acetate	8.683	43	48926	9.127	ug/l		99
44) Trichloroethene	9.347	130	21113	9.108	ug/l		95
45) 1,2-Dichloropropane	9.618	63	22747	8.942	ug/l		97
46) Dibromomethane	9.706	93	17260	9.404	ug/l		99
47) Bromodichloromethane	9.883	83	35020	9.365	ug/l		98
48) Methyl methacrylate	9.677	41	21873	9.067	ug/l		97
49) 1,4-Dioxane	9.694	88	7734	190.382	ug/l		98
51) 4-Methyl-2-Pentanone	10.441	43	146990	47.254	ug/l		98
52) Toluene	10.630	92	54976	9.527	ug/l		100
53) t-1,3-Dichloropropene	10.835	75	32780	9.276	ug/l		96
54) cis-1,3-Dichloropropene	10.312	75	35904	9.512	ug/l		98
55) 1,1,2-Trichloroethane	11.012	97	21060	9.222	ug/l		98
56) Ethyl methacrylate	10.871	69	28454	9.042	ug/l		95
57) 1,3-Dichloropropane	11.159	76	37768	9.512	ug/l		98
58) 2-Chloroethyl Vinyl ether	10.159	63	63110	43.550	ug/l		98
59) 2-Hexanone	11.194	43	101318	46.291	ug/l		98
60) Dibromochloromethane	11.353	129	25029	9.079	ug/l		98
61) 1,2-Dibromoethane	11.465	107	21055	9.263	ug/l		100
64) Tetrachloroethene	11.100	164	19934	9.928	ug/l		97
65) Chlorobenzene	11.888	112	61680	9.560	ug/l		93
66) 1,1,1,2-Tetrachloroethane	11.959	131	21853	9.229	ug/l		98
67) Ethyl Benzene	11.959	91	99248	9.445	ug/l		97
68) m/p-Xylenes	12.065	106	72431	18.650	ug/l		99
69) o-Xylene	12.394	106	34382	9.264	ug/l		99
70) Styrene	12.406	104	56285	9.163	ug/l		98
71) Bromoform	12.576	173	16071	9.485	ug/l	#	98
73) Isopropylbenzene	12.694	105	87003	9.697	ug/l		99
74) N-amyl acetate	12.494	43	37343	9.260	ug/l		97
75) 1,1,2,2-Tetrachloroethane	12.935	83	30770	9.709	ug/l		99
76) 1,2,3-Trichloropropane	12.994	75	25443m	9.432	ug/l		
77) Bromobenzene	12.976	156	22784	9.720	ug/l		97
78) n-propylbenzene	13.035	91	102262	9.628	ug/l		98
79) 2-Chlorotoluene	13.123	91	68346	9.943	ug/l		100
80) 1,3,5-Trimethylbenzene	13.171	105	71656	9.669	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.735	75	9236	9.248	ug/l		100
82) 4-Chlorotoluene	13.218	91	66773	9.756	ug/l		97
83) tert-Butylbenzene	13.435	119	59455	9.553	ug/l		98
84) 1,2,4-Trimethylbenzene	13.476	105	72046	9.754	ug/l		99
85) sec-Butylbenzene	13.612	105	83662	9.699	ug/l		99
86) p-Isopropyltoluene	13.729	119	67556	9.674	ug/l		99
87) 1,3-Dichlorobenzene	13.729	146	41843	9.693	ug/l		99
88) 1,4-Dichlorobenzene	13.812	146	42728	9.549	ug/l		99
89) n-Butylbenzene	14.053	91	57632	9.314	ug/l		97
90) Hexachloroethane	14.329	117	15261	9.294	ug/l		97
91) 1,2-Dichlorobenzene	14.106	146	40726	9.458	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	5639	9.744	ug/l		95
93) 1,2,4-Trichlorobenzene	15.388	180	18720	9.354	ug/l		99
94) Hexachlorobutadiene	15.500	225	10491	9.874	ug/l		98
95) Naphthalene	15.635	128	52054	8.717	ug/l		99
96) 1,2,3-Trichlorobenzene	15.835	180	19450	9.605	ug/l		96

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085441.D
Acq On : 14 Jan 2025 16:07
Operator : JC\MD
Sample : VSTDICC010
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 15 01:44:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration

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

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

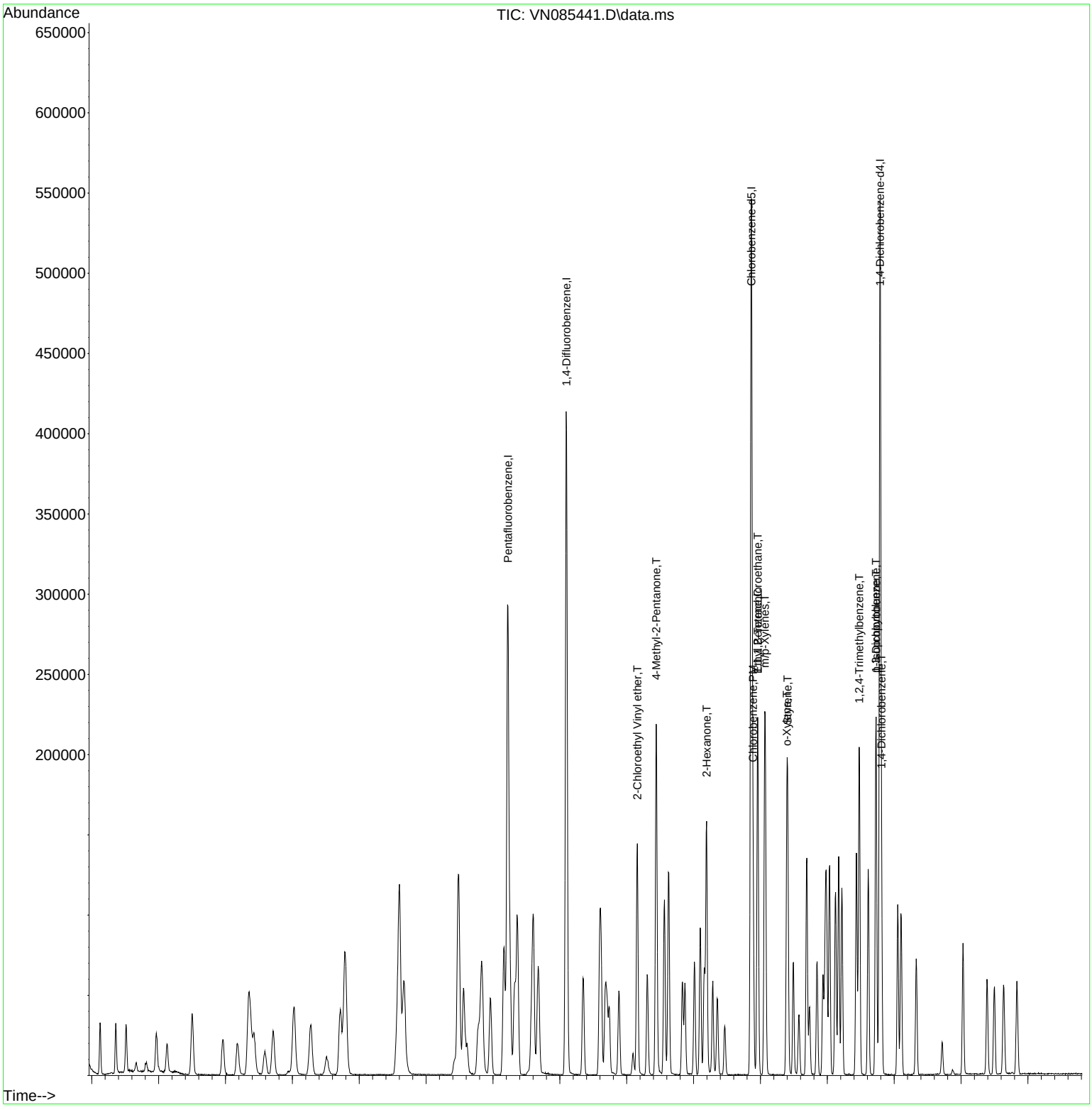
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085441.D
Acq On : 14 Jan 2025 16:07
Operator : JC\MD
Sample : VSTDICC010
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

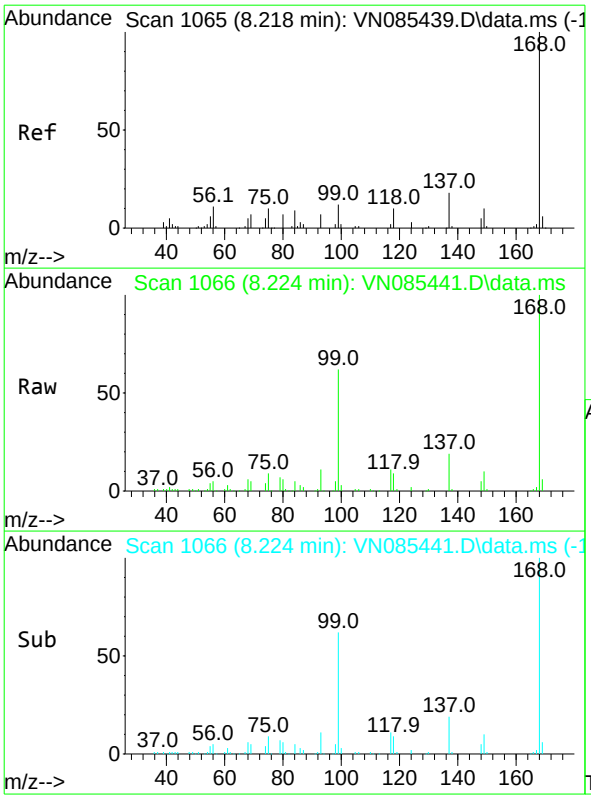
Quant Time: Jan 15 01:44:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

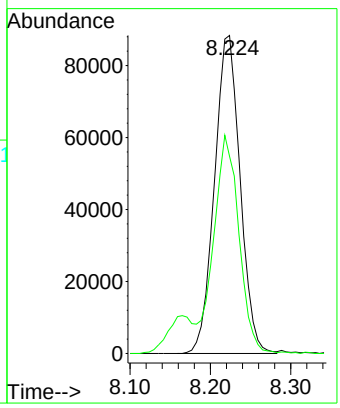




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:168 Resp: 195889

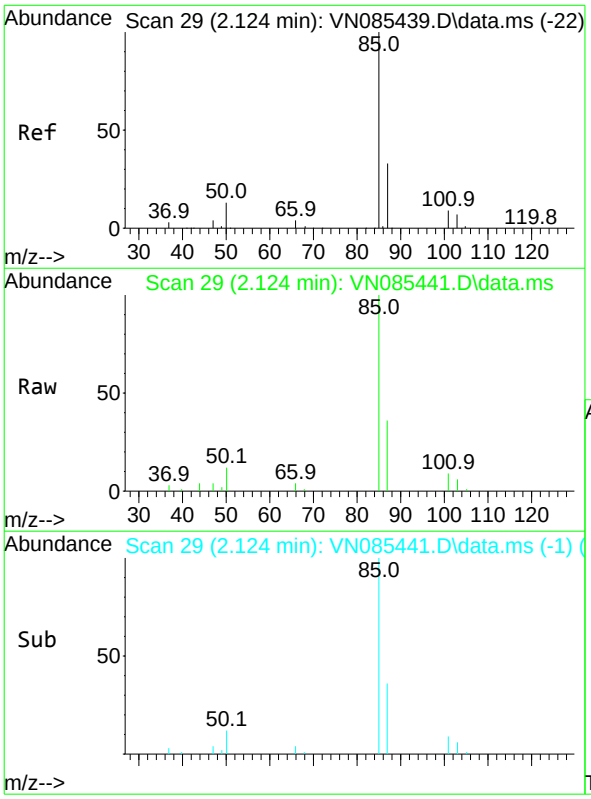
Ion	Ratio	Lower	Upper
168	100		
99	61.7	53.6	80.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

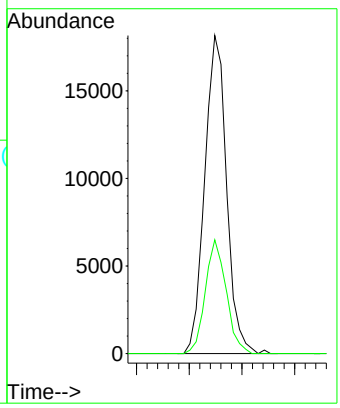
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

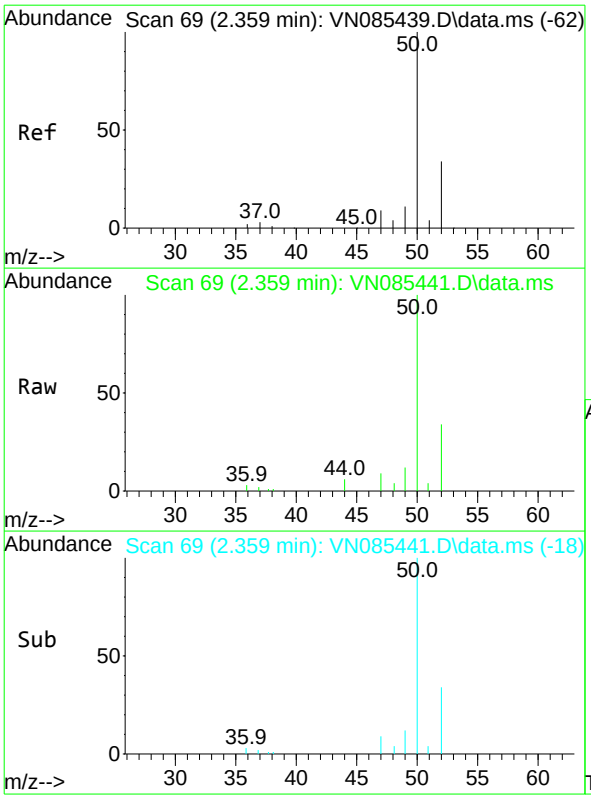


#2
Dichlorodifluoromethane
Concen: 9.850 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 85 Resp: 26124

Ion	Ratio	Lower	Upper
85	100		
87	35.8	16.7	50.1

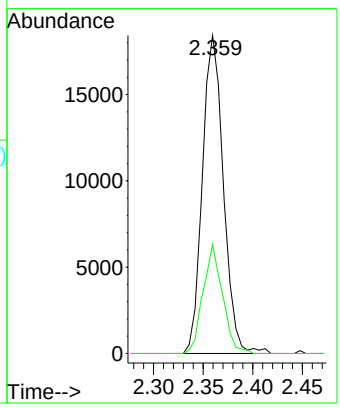




#3
Chloromethane
Concen: 9.452 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 50 Resp: 27143

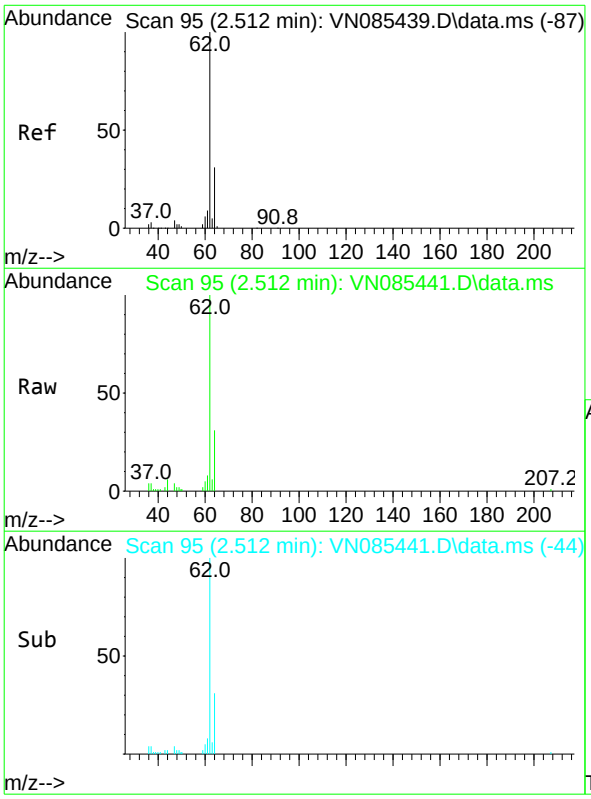
Ion	Ratio	Lower	Upper
50	100		
52	34.3	27.0	40.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

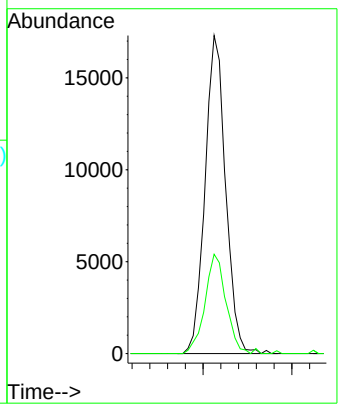
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

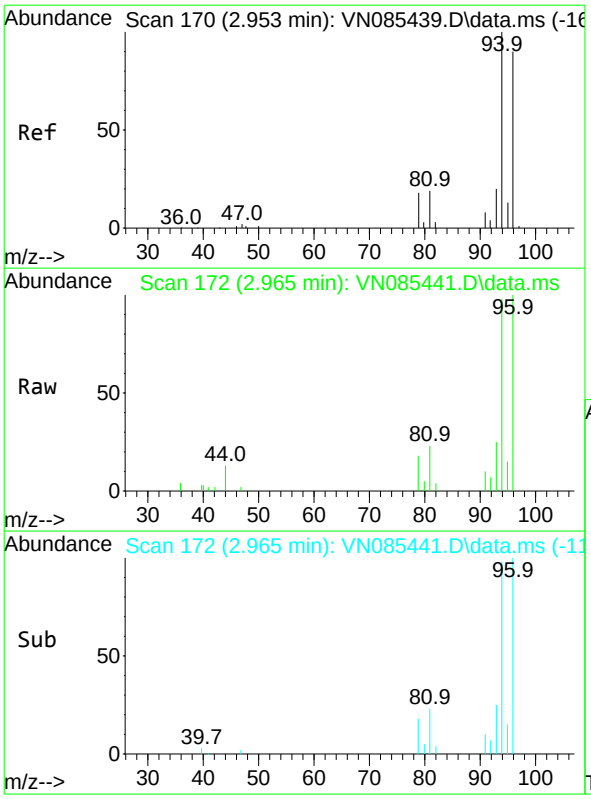


#4
Vinyl Chloride
Concen: 9.653 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 62 Resp: 27862

Ion	Ratio	Lower	Upper
62	100		
64	31.2	24.8	37.2

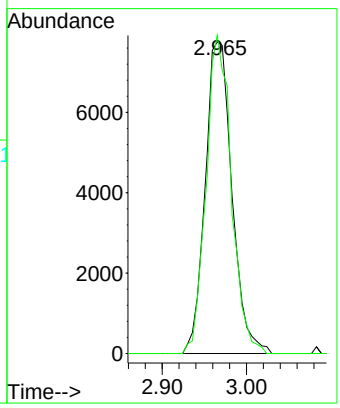




#5
Bromomethane
Concen: 9.830 ug/l
RT: 2.965 min Scan# 17
Delta R.T. 0.012 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 94 Resp: 17139

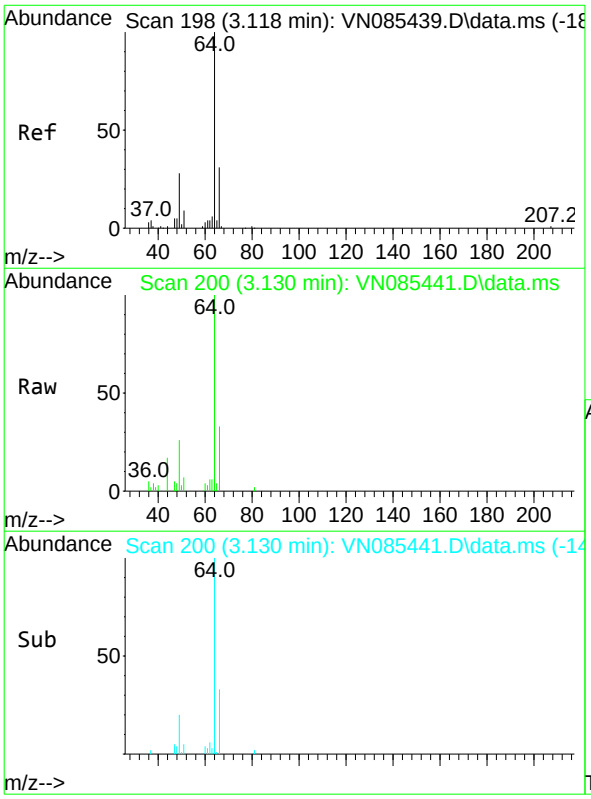
Ion	Ratio	Lower	Upper
94	100		
96	102.1	71.8	107.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

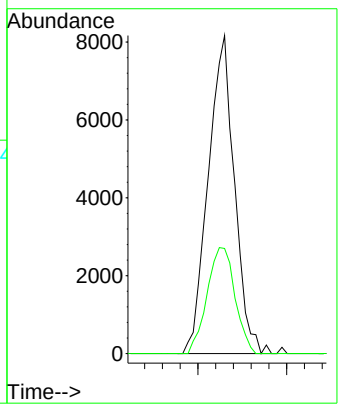
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

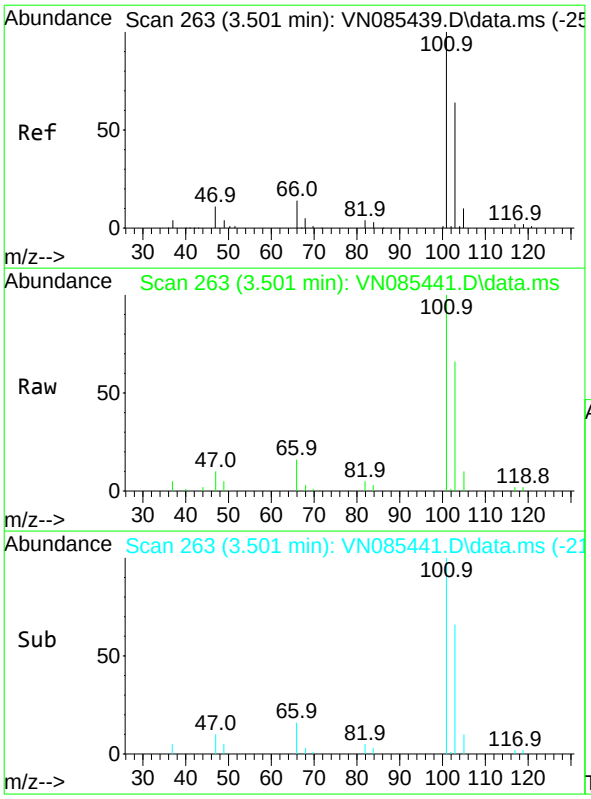


#6
Chloroethane
Concen: 9.175 ug/l
RT: 3.130 min Scan# 200
Delta R.T. 0.012 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 64 Resp: 16791

Ion	Ratio	Lower	Upper
64	100		
66	33.1	24.6	36.8

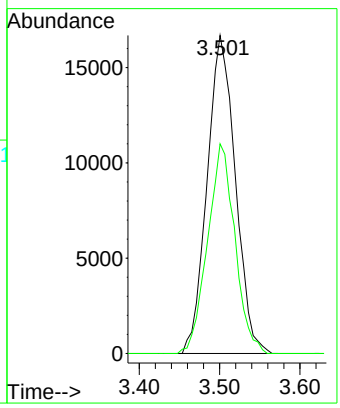




#7
Trichlorofluoromethane
Concen: 9.731 ug/l
RT: 3.501 min Scan# 26
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:101 Resp: 40755

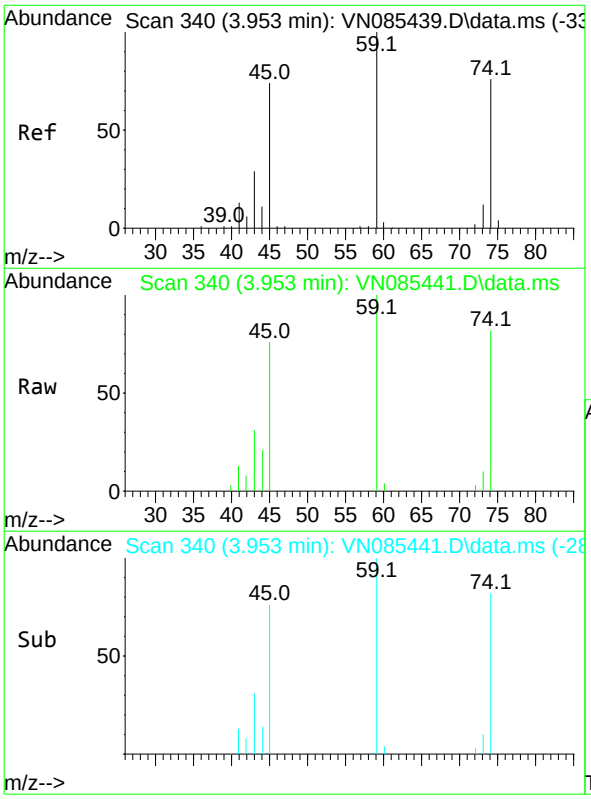
Ion	Ratio	Lower	Upper
101	100		
103	65.9	51.4	77.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

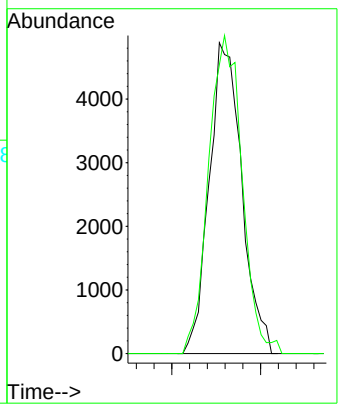
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

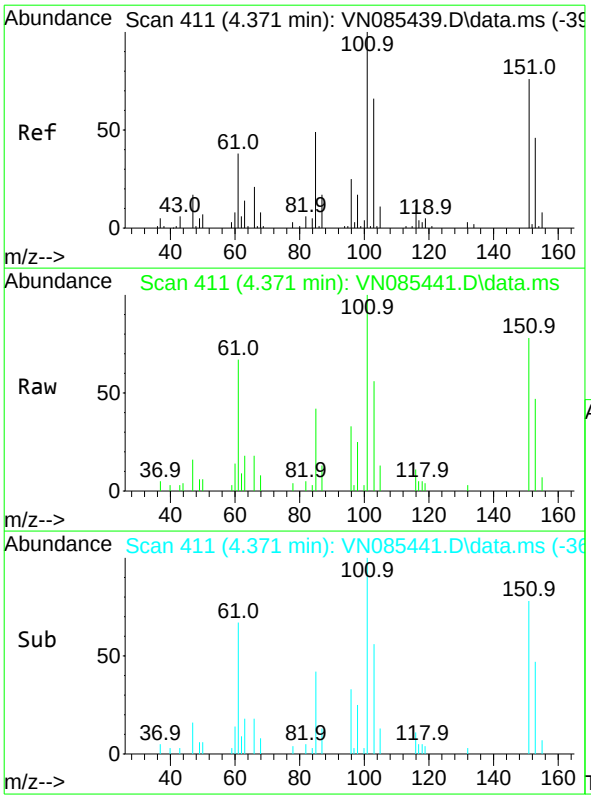


#8
Diethyl Ether
Concen: 8.581 ug/l
RT: 3.953 min Scan# 340
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 74 Resp: 12415

Ion	Ratio	Lower	Upper
74	100		
45	105.3	49.7	149.1

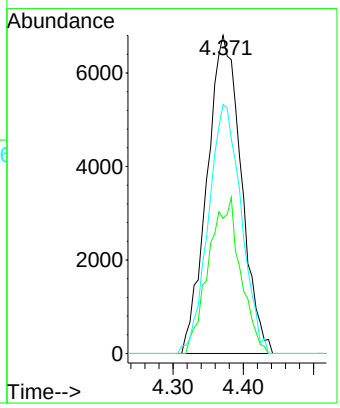




#9
1,1,2-Trichlorotrifluoroethane
Concen: 9.742 ug/l
RT: 4.371 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:101 Resp: 22982

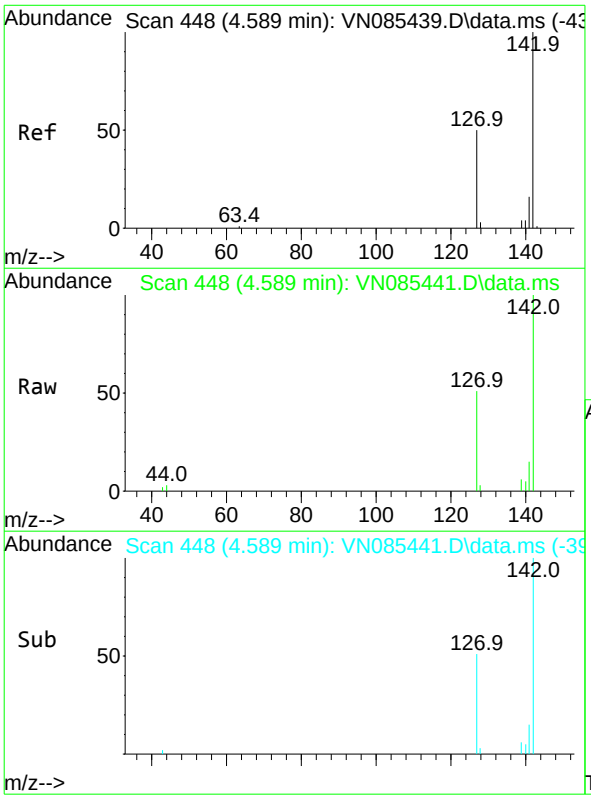
Ion	Ratio	Lower	Upper
101	100		
85	45.8	37.8	56.8
151	75.2	58.8	88.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

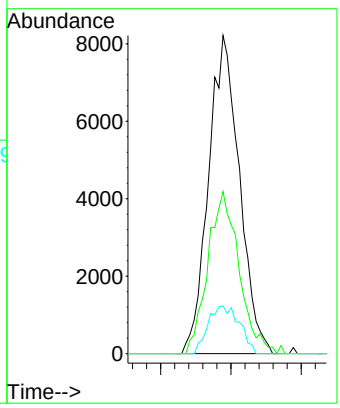
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

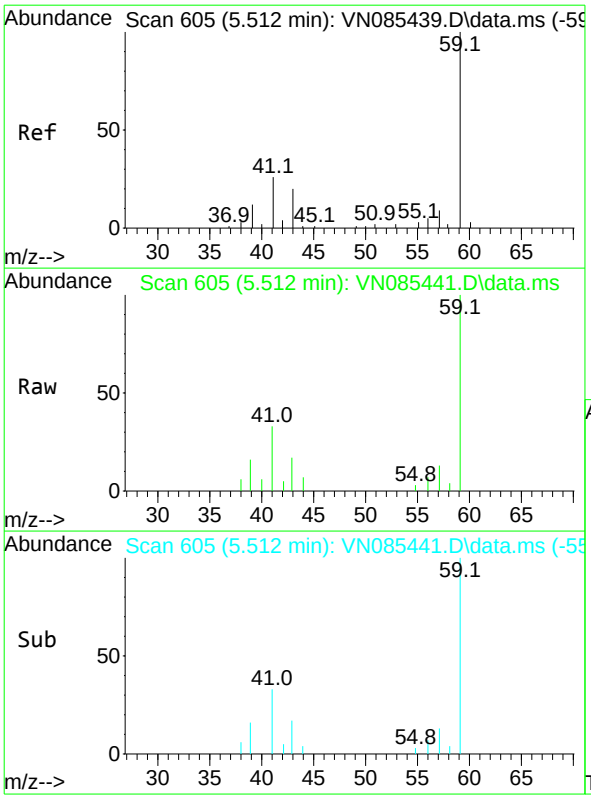


#10
Methyl Iodide
Concen: 9.286 ug/l
RT: 4.589 min Scan# 448
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:142 Resp: 25085

Ion	Ratio	Lower	Upper
142	100		
127	50.9	40.3	60.5
141	15.0	12.8	19.2

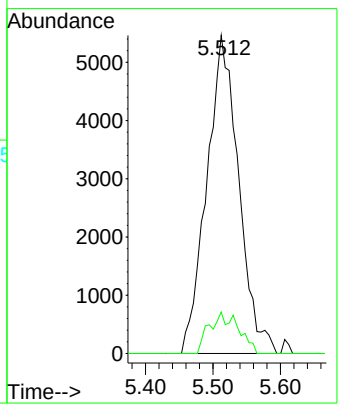




#11
Tert butyl alcohol
Concen: 49.608 ug/l
RT: 5.512 min Scan# 60
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 59 Resp: 17962

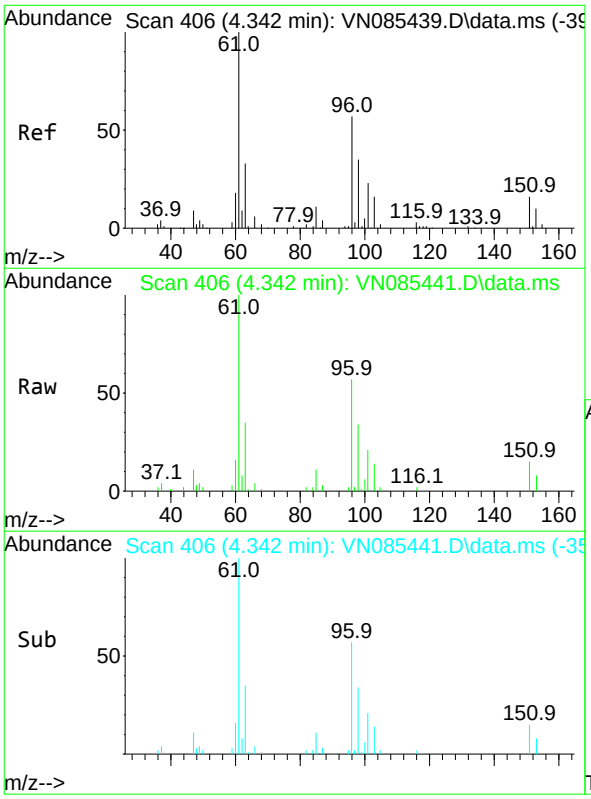
Ion	Ratio	Lower	Upper
59	100		
57	11.9	8.6	13.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

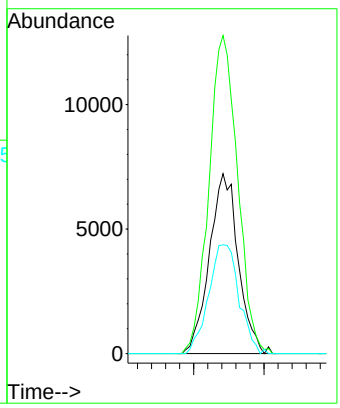
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

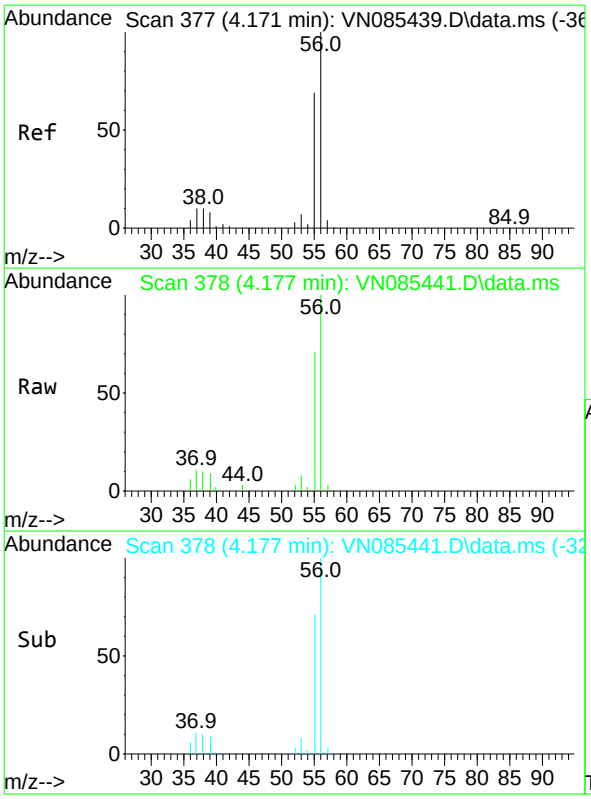


#12
1,1-Dichloroethene
Concen: 9.806 ug/l
RT: 4.342 min Scan# 406
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 96 Resp: 20615

Ion	Ratio	Lower	Upper
96	100		
61	176.8	141.0	211.4
98	60.5	49.0	73.6

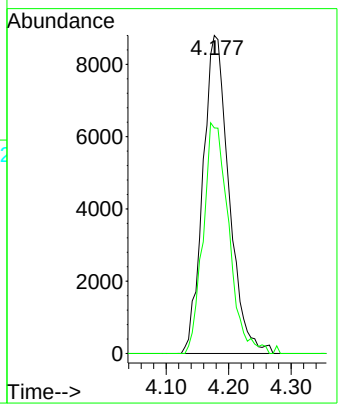




#13
Acrolein
Concen: 51.729 ug/l
RT: 4.177 min Scan# 37
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 56 Resp: 25568

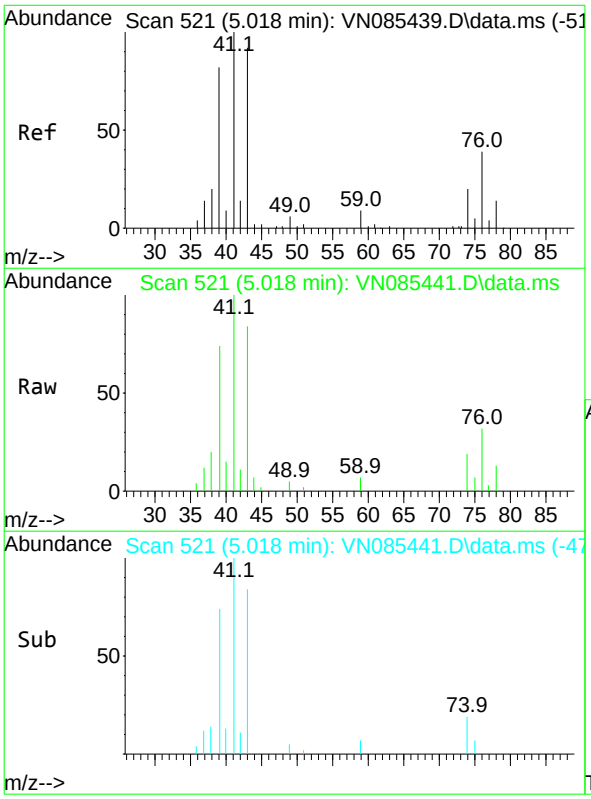
Ion	Ratio	Lower	Upper
56	100		
55	70.9	56.3	84.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

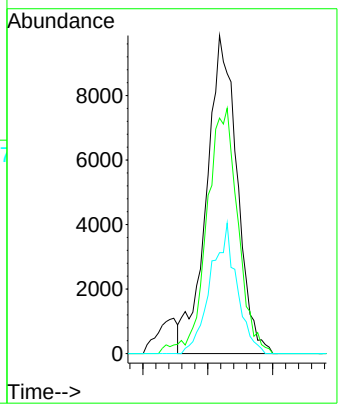
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

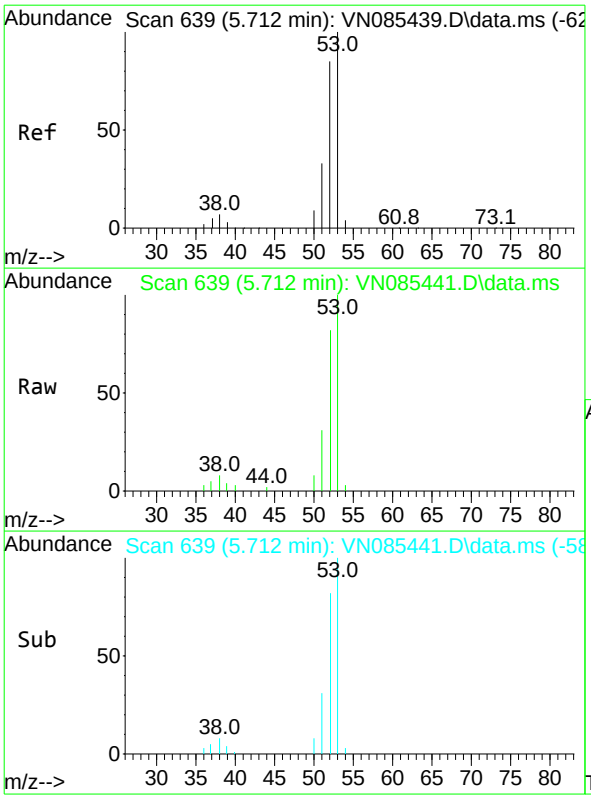


#14
Allyl chloride
Concen: 9.451 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 41 Resp: 32240

Ion	Ratio	Lower	Upper
41	100		
39	78.3	64.4	96.6
76	35.1	30.5	45.7

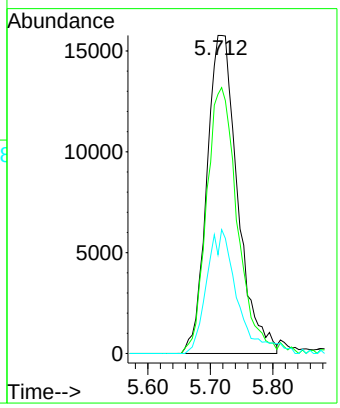




#15
Acrylonitrile
Concen: 46.918 ug/l
RT: 5.712 min Scan# 63
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 53 Resp: 53959

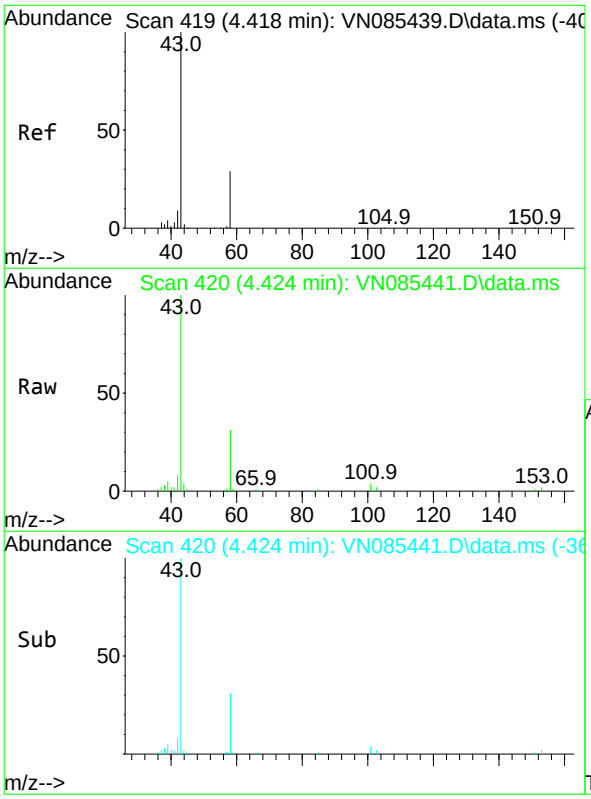
Ion	Ratio	Lower	Upper
53	100		
52	83.3	65.5	98.3
51	38.8	29.8	44.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

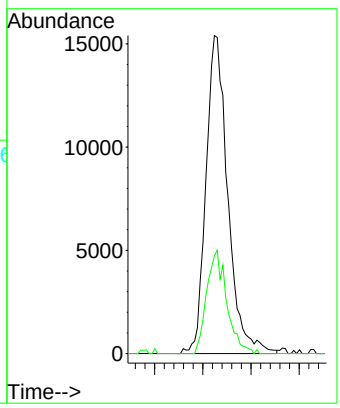
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

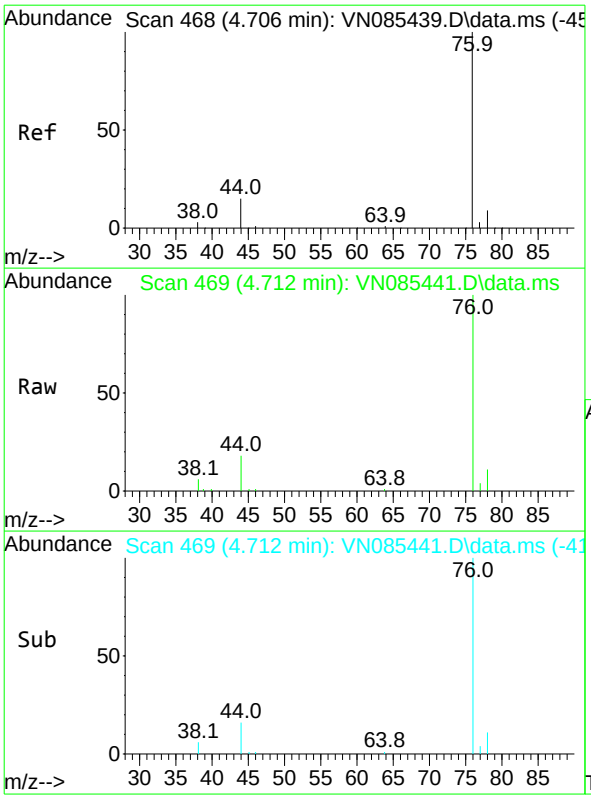


#16
Acetone
Concen: 47.446 ug/l
RT: 4.424 min Scan# 420
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 43 Resp: 48475

Ion	Ratio	Lower	Upper
43	100		
58	30.8	23.8	35.6

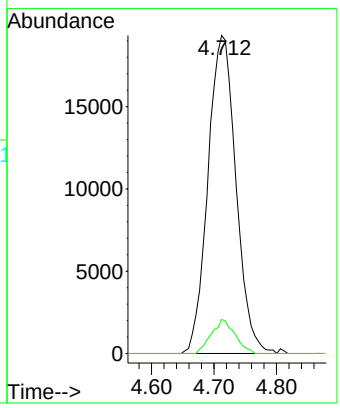




#17
Carbon Disulfide
Concen: 9.300 ug/l
RT: 4.712 min Scan# 46
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 76 Resp: 60201

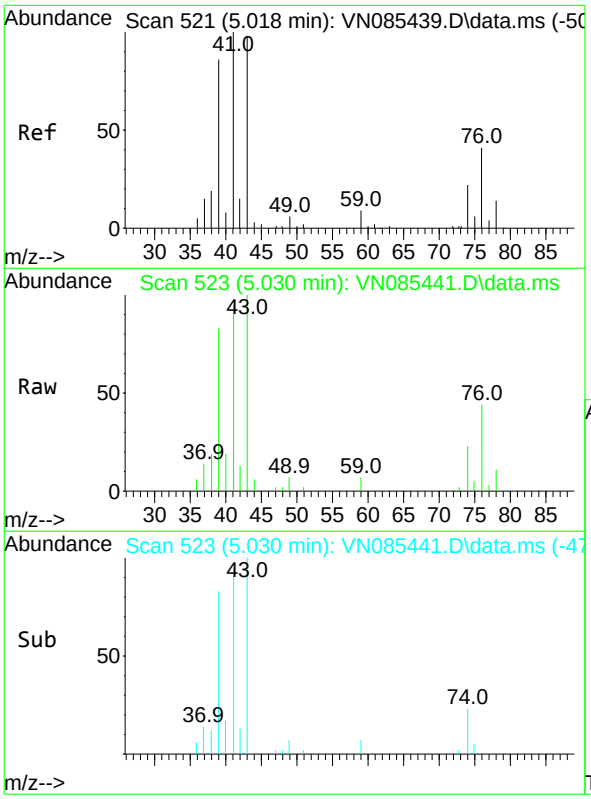
Ion	Ratio	Lower	Upper
76	100		
78	10.7	6.9	10.3#



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

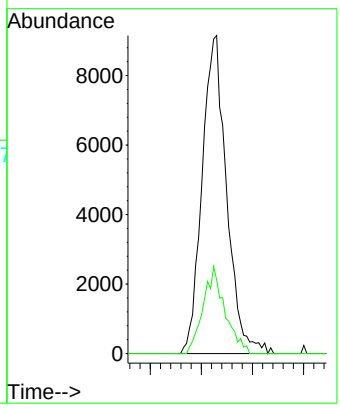
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

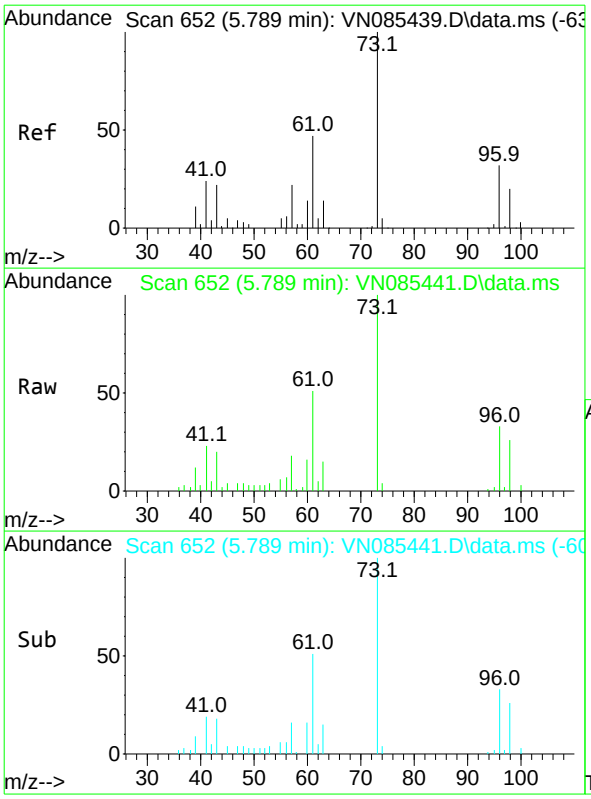


#18
Methyl Acetate
Concen: 9.817 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.012 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 43 Resp: 30500

Ion	Ratio	Lower	Upper
43	100		
74	24.3	18.6	28.0

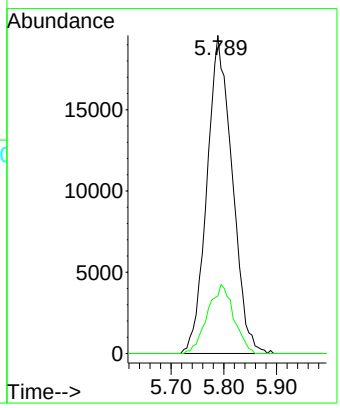




#19
Methyl tert-butyl Ether
Concen: 9.552 ug/l
RT: 5.789 min Scan# 65
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 73 Resp: 65207

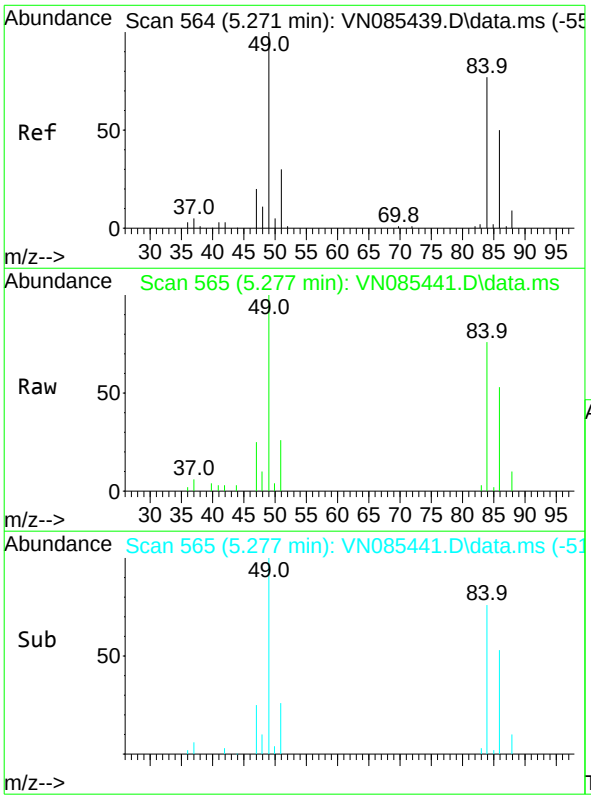
Ion	Ratio	Lower	Upper
73	100		
57	18.1	17.8	26.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

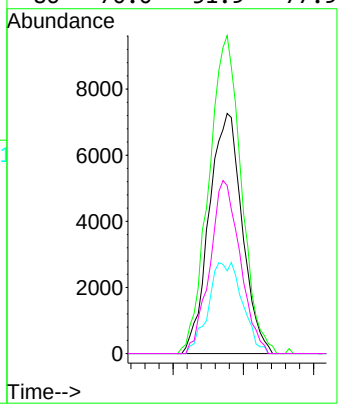
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

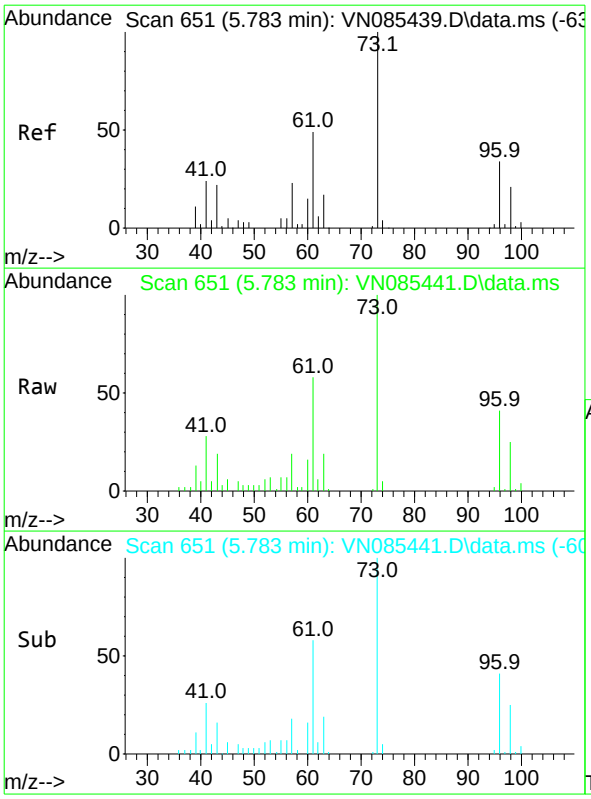


#20
Methylene Chloride
Concen: 9.379 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 84 Resp: 23723

Ion	Ratio	Lower	Upper
84	100		
49	132.4	104.1	156.1
51	34.4	31.0	46.4
86	70.0	51.9	77.9

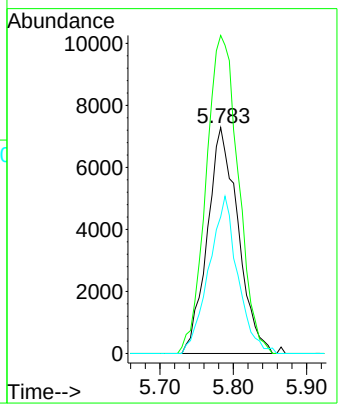




#21
trans-1,2-Dichloroethene
Concen: 9.403 ug/l
RT: 5.783 min Scan# 65
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 96 Resp: 21127

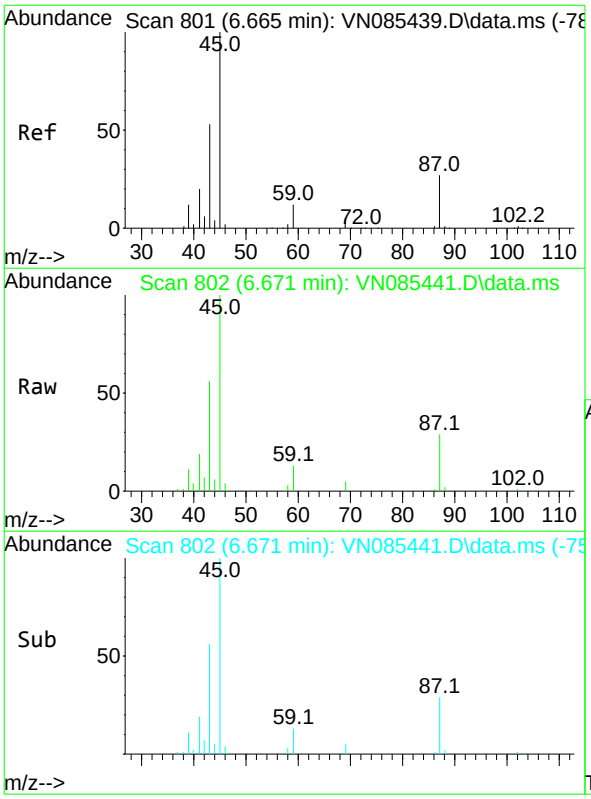
Ion	Ratio	Lower	Upper
96	100		
61	140.8	115.7	173.5
98	60.5	49.8	74.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

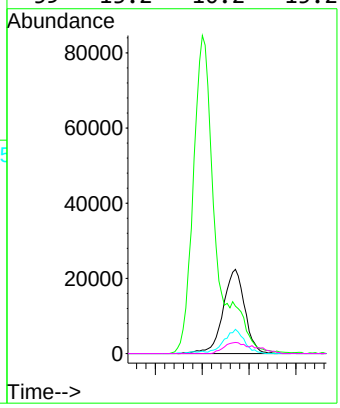
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

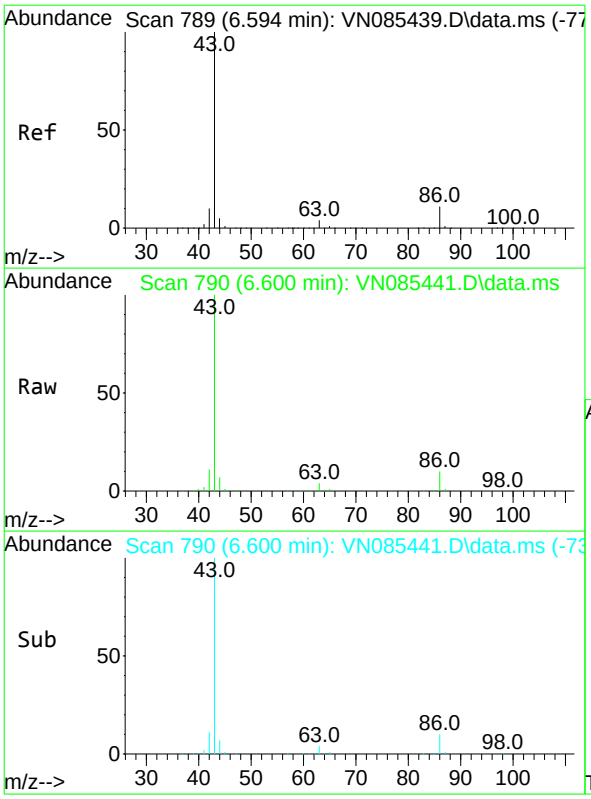


#22
Diisopropyl ether
Concen: 9.490 ug/l
RT: 6.671 min Scan# 802
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 45 Resp: 71857

Ion	Ratio	Lower	Upper
45	100		
43	53.2	45.0	67.6
87	28.8	21.8	32.8
59	13.2	10.2	15.2

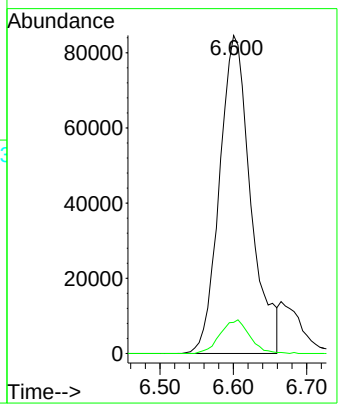




#23
Vinyl Acetate
Concen: 47.125 ug/l
RT: 6.600 min Scan# 79
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 43 Resp: 250575

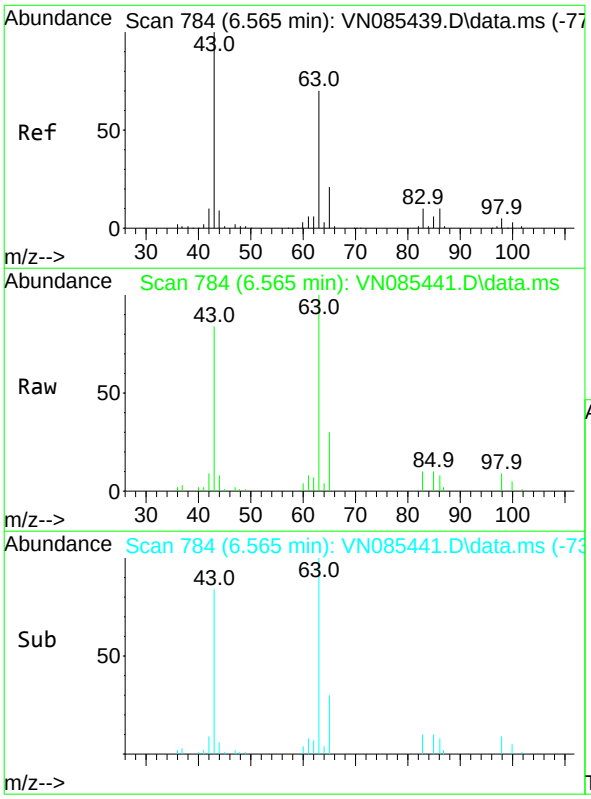
Ion	Ratio	Lower	Upper
43	100		
86	9.8	8.4	12.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

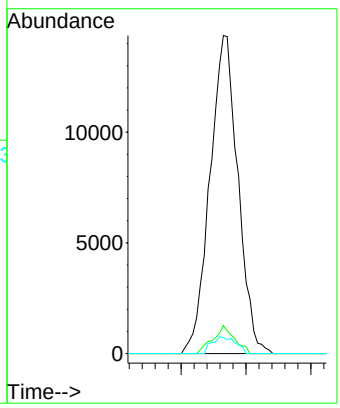
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

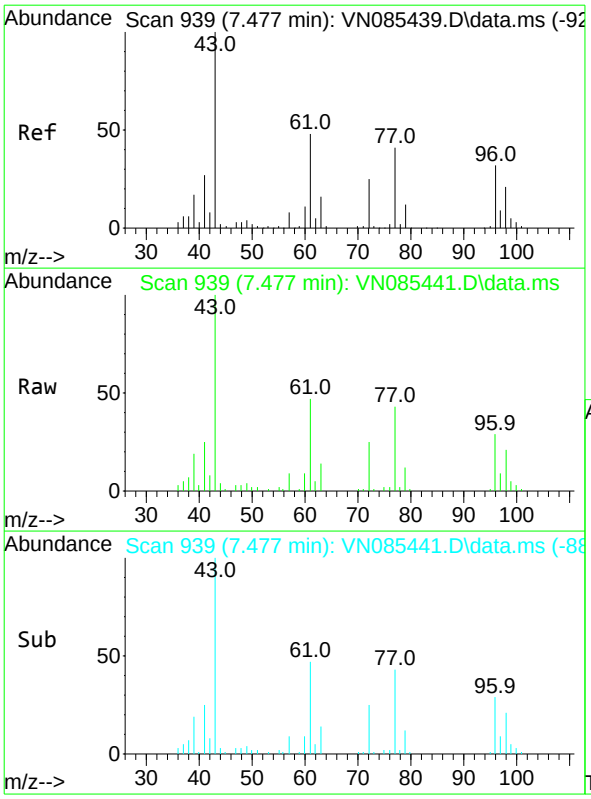


#24
1,1-Dichloroethane
Concen: 9.335 ug/l
RT: 6.565 min Scan# 784
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 63 Resp: 43099

Ion	Ratio	Lower	Upper
63	100		
98	8.8	3.3	9.8
100	5.0	2.0	6.0

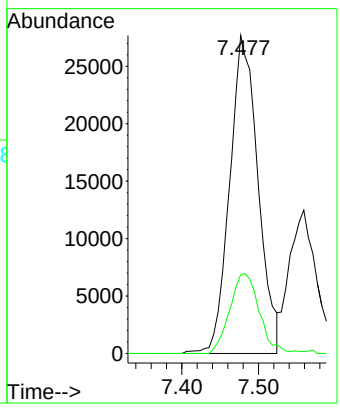




#25
2-Butanone
Concen: 47.350 ug/l
RT: 7.477 min Scan# 93
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 43 Resp: 71191

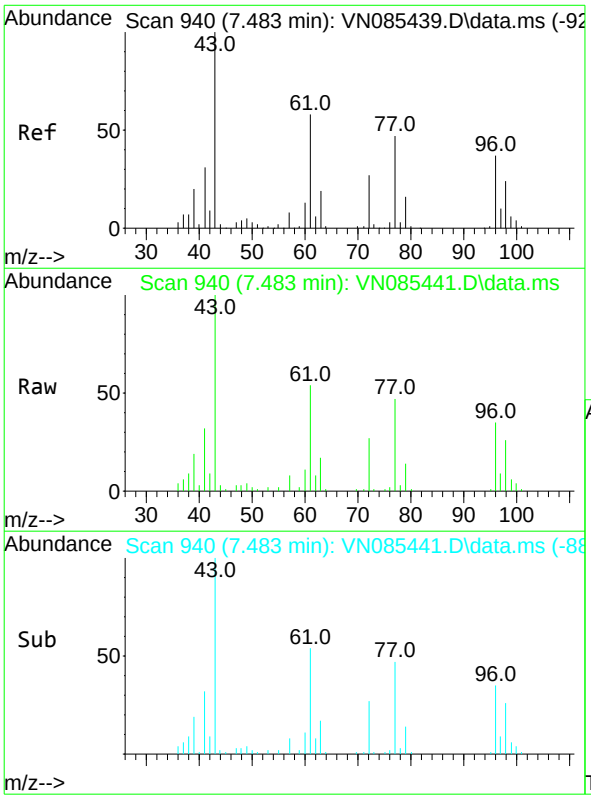
Ion	Ratio	Lower	Upper
43	100		
72	24.8	20.2	30.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

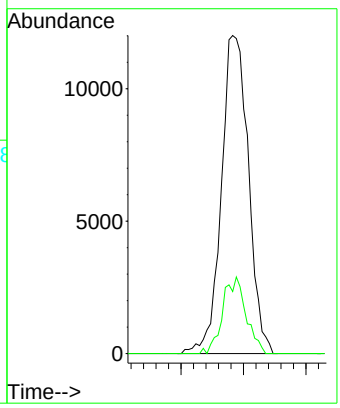
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

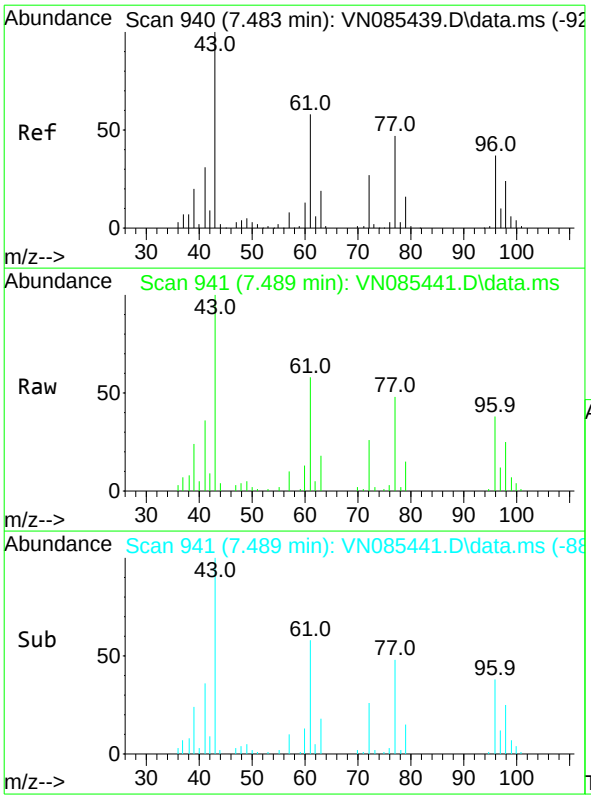


#26
2,2-Dichloropropane
Concen: 9.672 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 77 Resp: 36105

Ion	Ratio	Lower	Upper
77	100		
97	20.8	10.7	32.1

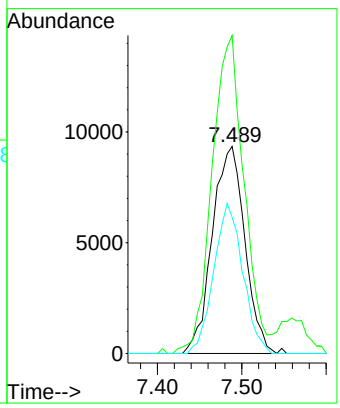




#27
cis-1,2-Dichloroethene
Concen: 9.466 ug/l
RT: 7.489 min Scan# 94
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 96 Resp: 25049

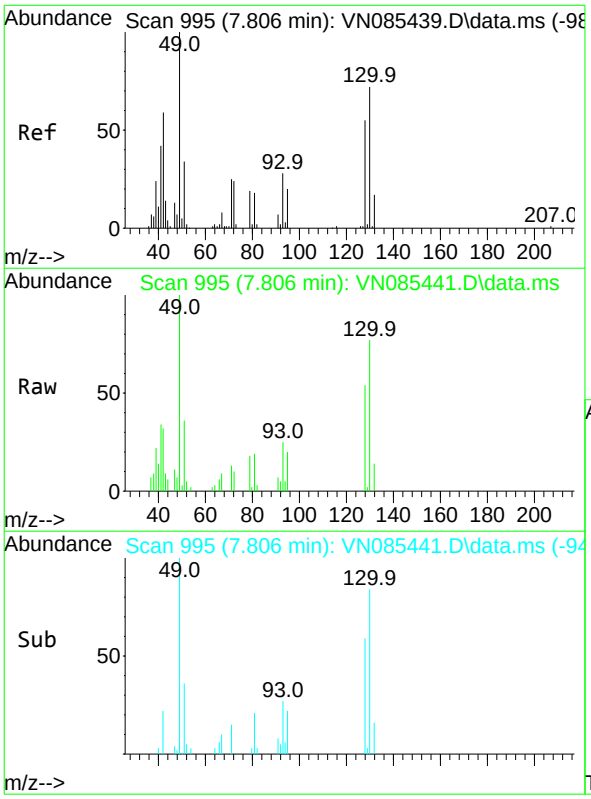
Ion	Ratio	Lower	Upper
96	100		
61	151.8	0.0	311.8
98	64.7	0.0	126.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

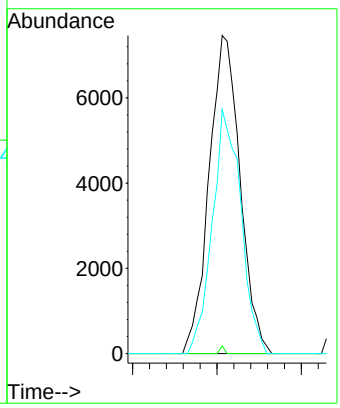
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

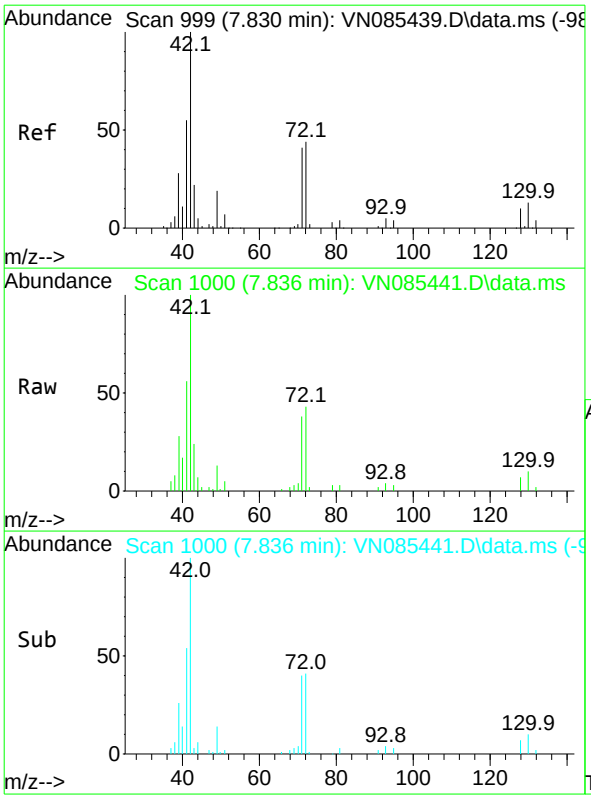


#28
Bromochloromethane
Concen: 8.863 ug/l
RT: 7.806 min Scan# 995
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 49 Resp: 19037

Ion	Ratio	Lower	Upper
49	100		
129	0.3	0.0	4.4
130	70.8	55.0	82.4

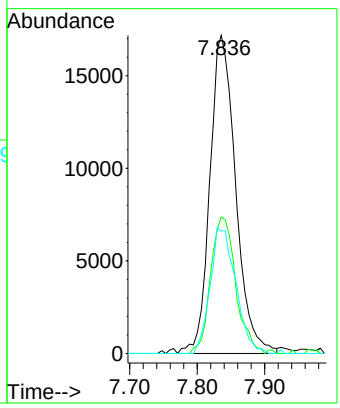




#29
Tetrahydrofuran
Concen: 47.881 ug/l
RT: 7.836 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 42 Resp: 45641

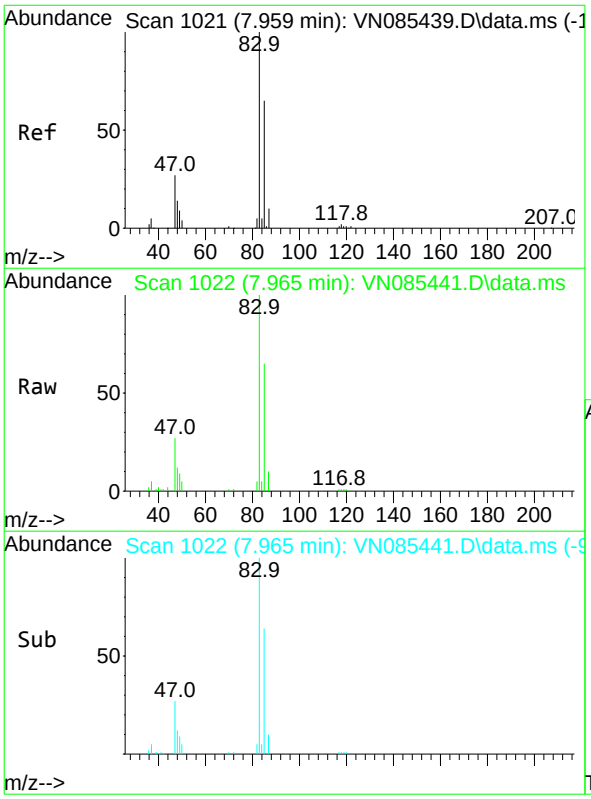
Ion	Ratio	Lower	Upper
42	100		
72	41.6	34.2	51.2
71	39.2	32.5	48.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

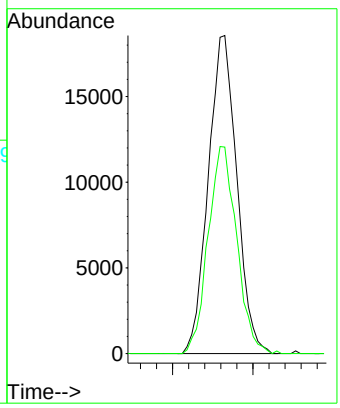
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

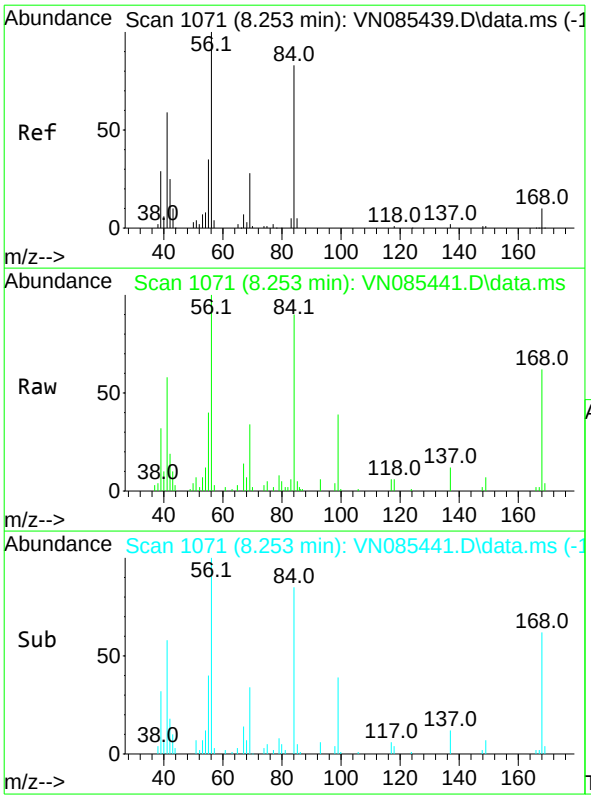


#30
Chloroform
Concen: 9.596 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 83 Resp: 45792

Ion	Ratio	Lower	Upper
83	100		
85	64.9	51.8	77.6

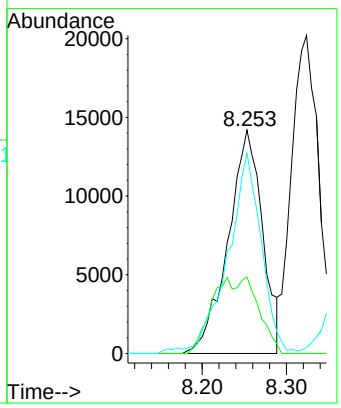




#31
Cyclohexane
Concen: 10.020 ug/l
RT: 8.253 min Scan# 10
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 56 Resp: 40211

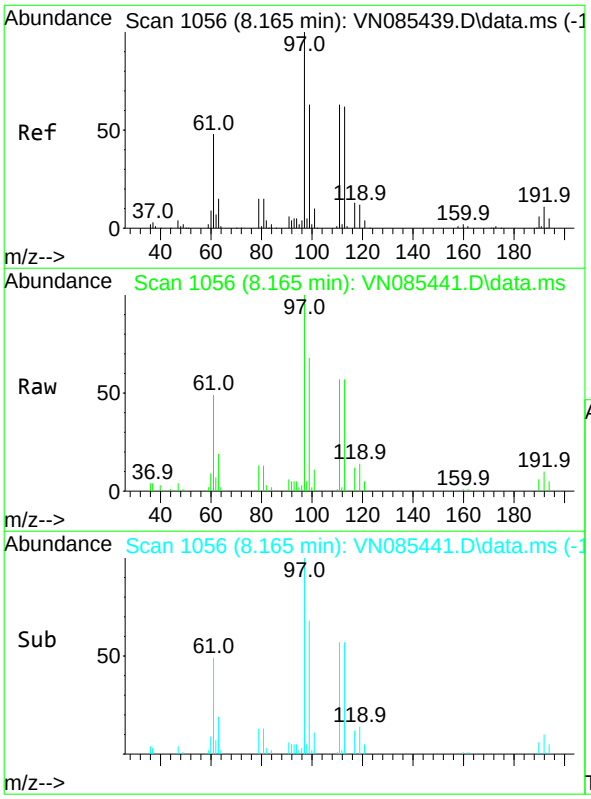
Ion	Ratio	Lower	Upper
56	100		
69	34.2	22.2	33.4#
84	87.2	66.4	99.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

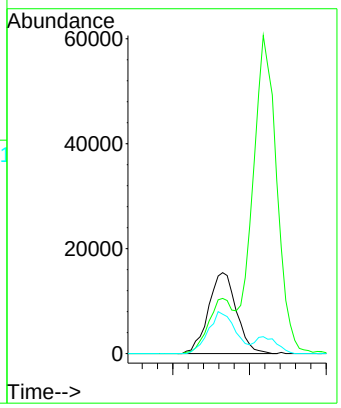
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

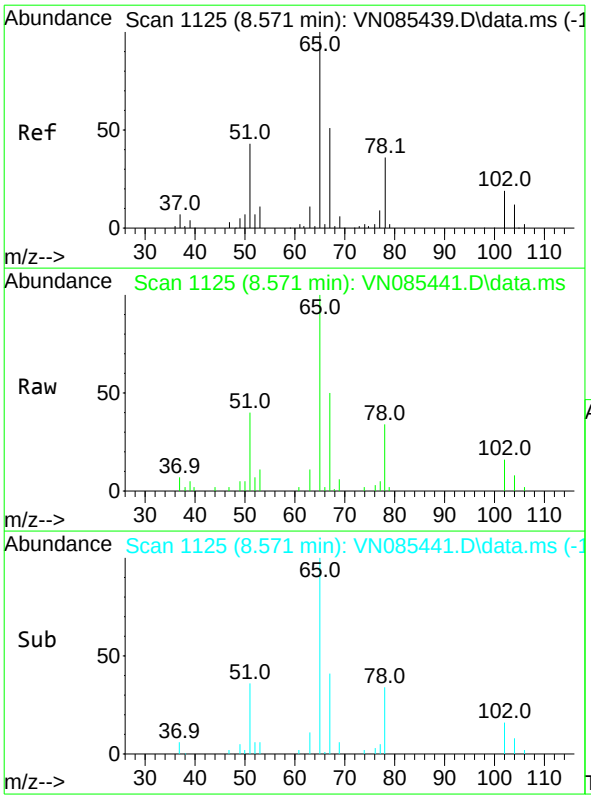


#32
1,1,1-Trichloroethane
Concen: 9.358 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 97 Resp: 39170

Ion	Ratio	Lower	Upper
97	100		
99	62.6	49.8	74.6
61	50.2	41.4	62.2

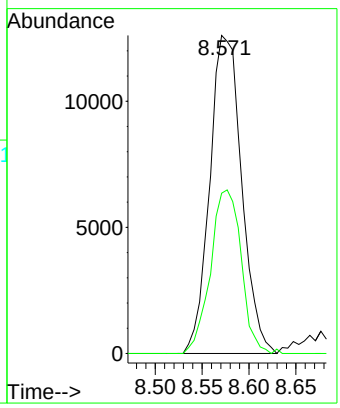




#33
1,2-Dichloroethane-d4
Concen: 9.442 ug/l
RT: 8.571 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 65 Resp: 29856

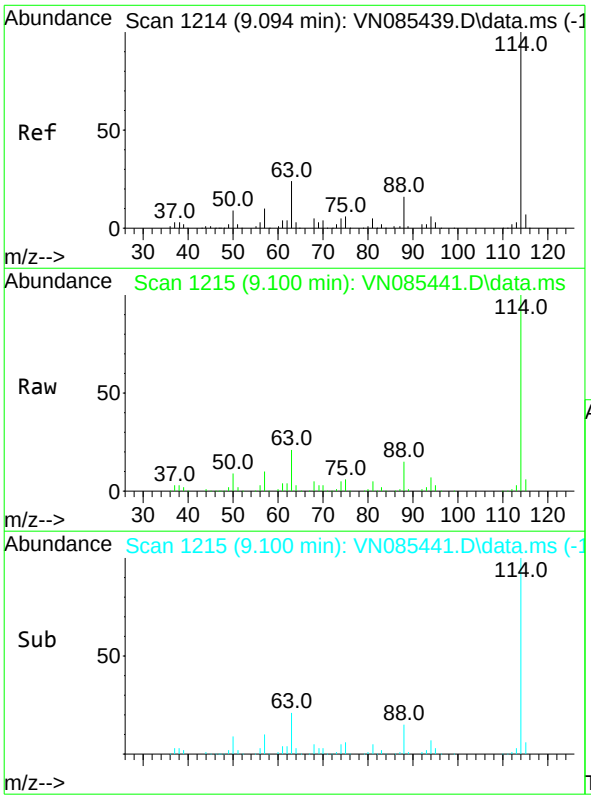
Ion	Ratio	Lower	Upper
65	100		
67	49.5	0.0	101.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

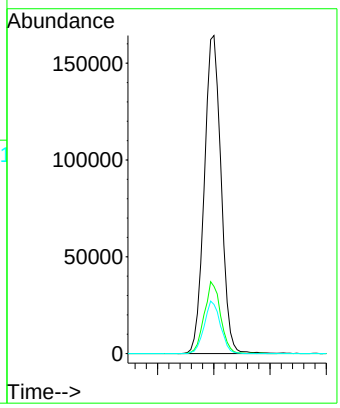
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

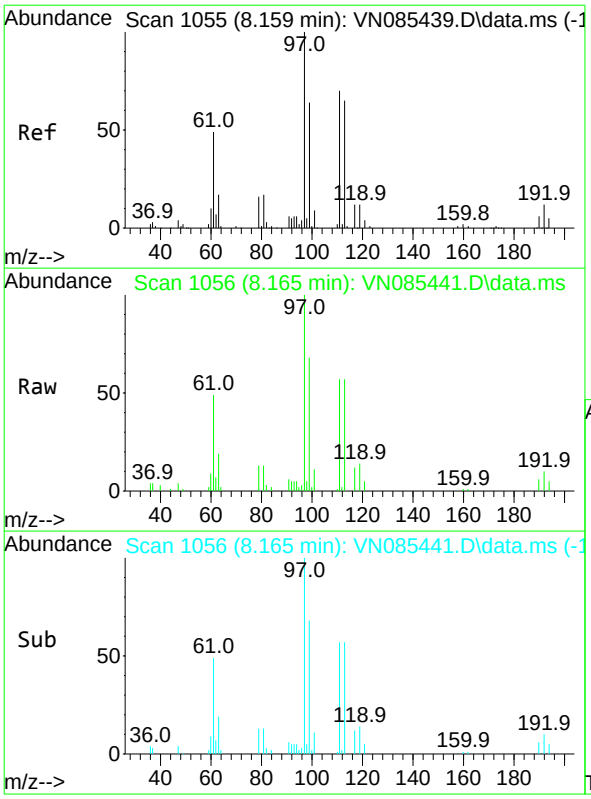


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:114 Resp: 340403

Ion	Ratio	Lower	Upper
114	100		
63	21.1	0.0	47.6
88	15.5	0.0	32.6

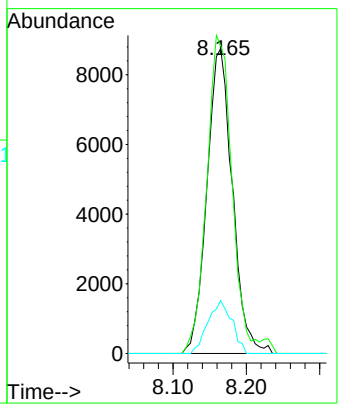




#35
Dibromofluoromethane
Concen: 8.939 ug/l
RT: 8.165 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:113 Resp: 21110

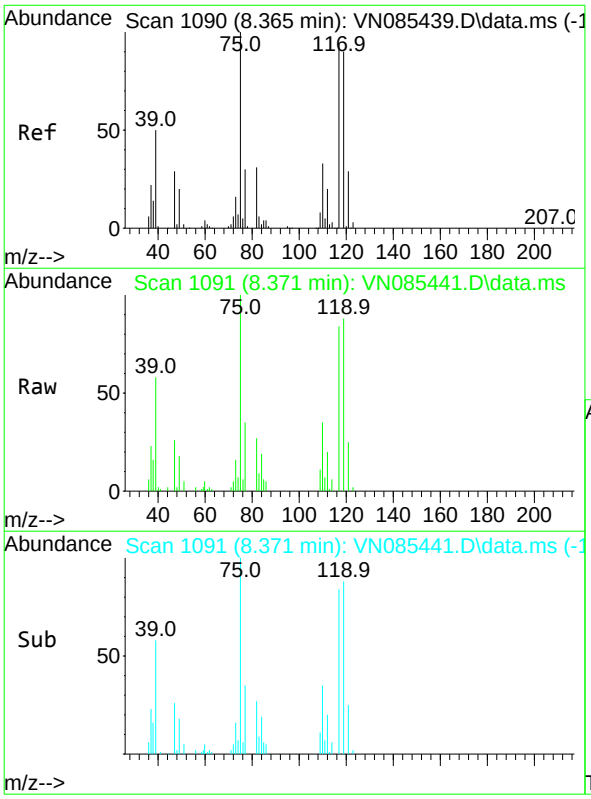
Ion	Ratio	Lower	Upper
113	100		
111	103.4	82.7	124.1
192	16.4	14.3	21.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

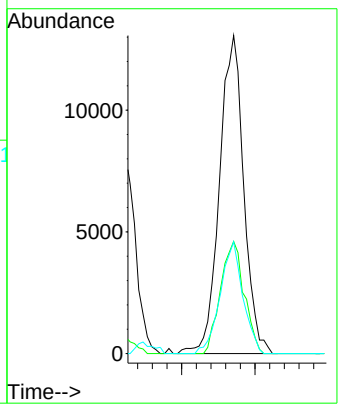
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

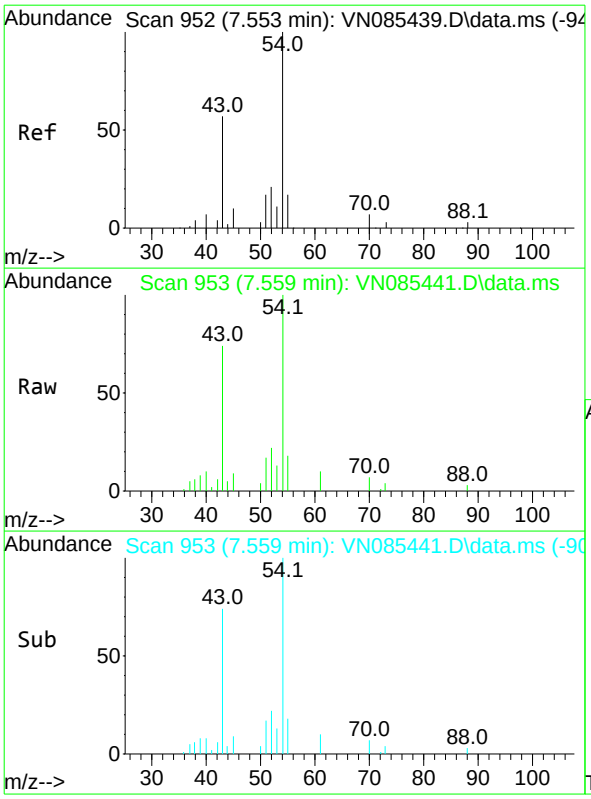


#36
1,1-Dichloropropene
Concen: 9.056 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 75 Resp: 30015

Ion	Ratio	Lower	Upper
75	100		
110	34.3	16.5	49.5
77	32.9	24.4	36.6

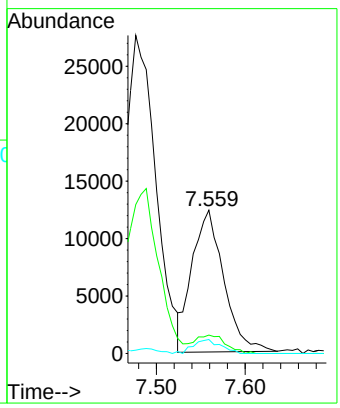




#37
Ethyl Acetate
Concen: 9.195 ug/l
RT: 7.559 min Scan# 95
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 43 Resp: 30760

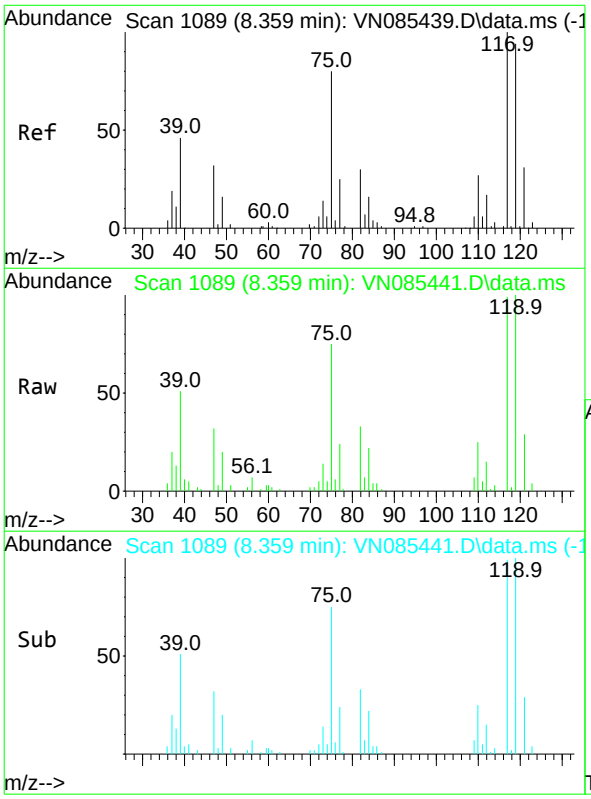
Ion	Ratio	Lower	Upper
43	100		
61	12.2	10.9	16.3
70	8.4	7.5	11.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

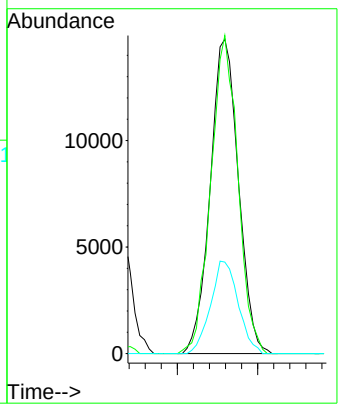
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

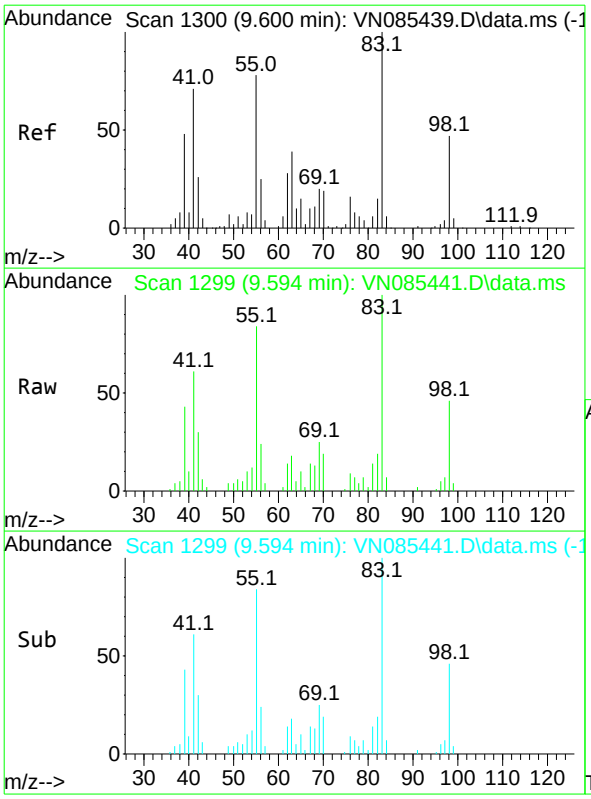


#38
Carbon Tetrachloride
Concen: 9.492 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:117 Resp: 36015

Ion	Ratio	Lower	Upper
117	100		
119	101.2	75.4	113.2
121	29.1	24.6	37.0

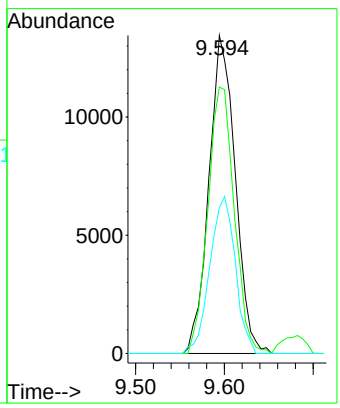




#39
Methylcyclohexane
Concen: 8.900 ug/l
RT: 9.594 min Scan# 12
Delta R.T. -0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 83 Resp: 27721

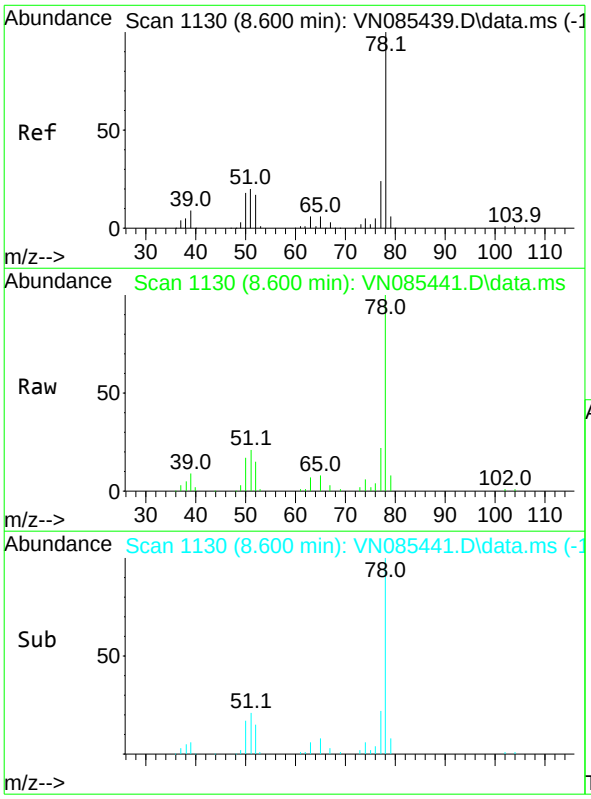
Ion	Ratio	Lower	Upper
83	100		
55	83.8	62.6	94.0
98	45.8	37.7	56.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

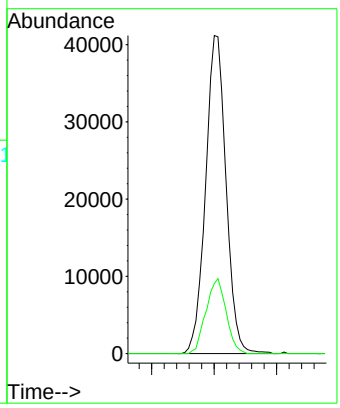
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

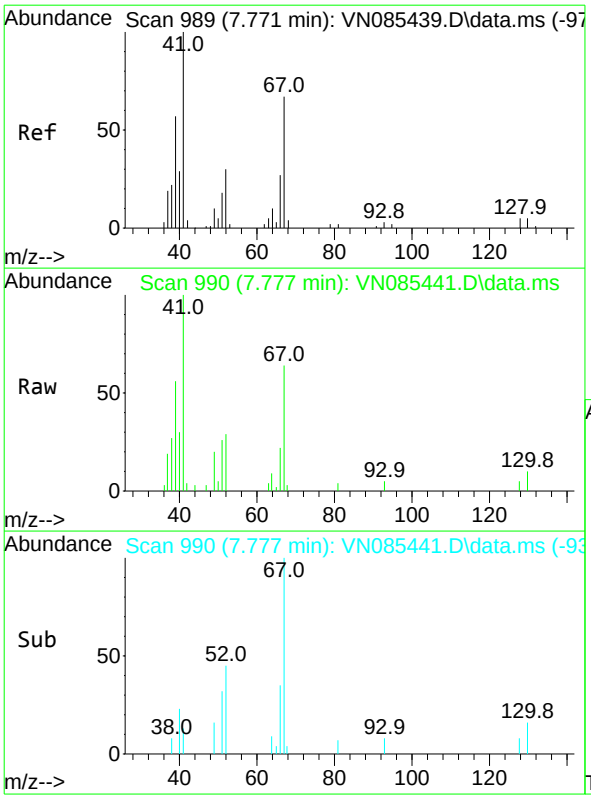


#40
Benzene
Concen: 9.407 ug/l
RT: 8.600 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 78 Resp: 93680

Ion	Ratio	Lower	Upper
78	100		
77	22.0	19.0	28.6

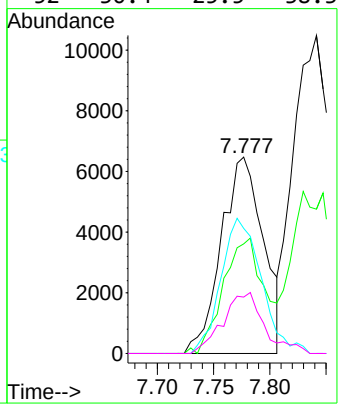




#41
Methacrylonitrile
Concen: 9.686 ug/l
RT: 7.777 min Scan# 99
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 41 Resp: 16859

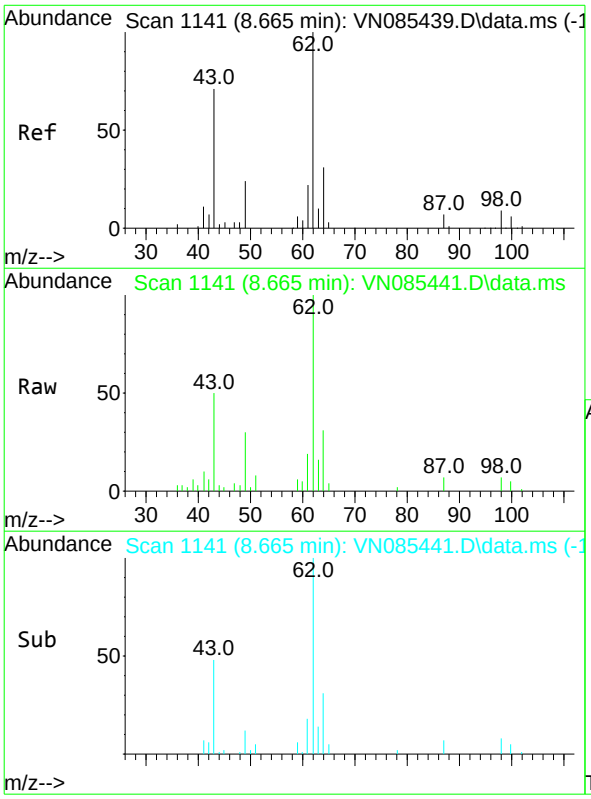
Ion	Ratio	Lower	Upper
41	100		
39	57.3	46.0	69.0
67	66.2	57.4	86.2
52	30.4	25.5	38.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

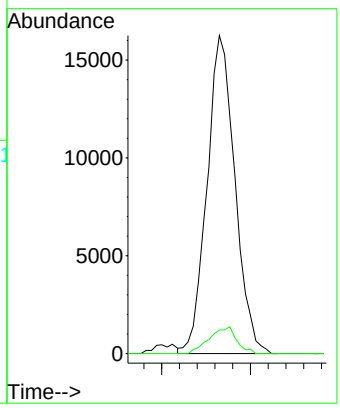
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

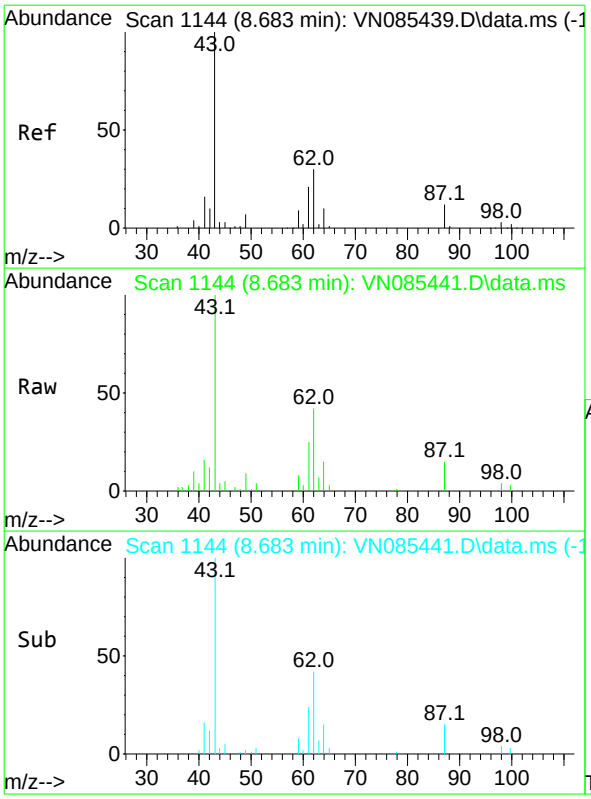


#42
1,2-Dichloroethane
Concen: 9.483 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 62 Resp: 35569

Ion	Ratio	Lower	Upper
62	100		
98	8.2	0.0	17.0

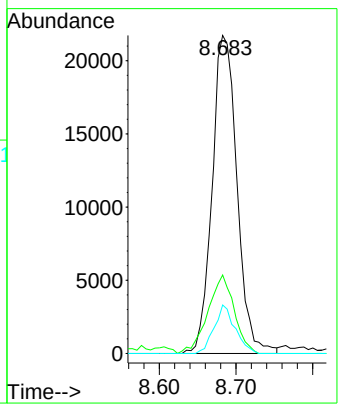




#43
Isopropyl Acetate
Concen: 9.127 ug/l
RT: 8.683 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 43 Resp: 48926

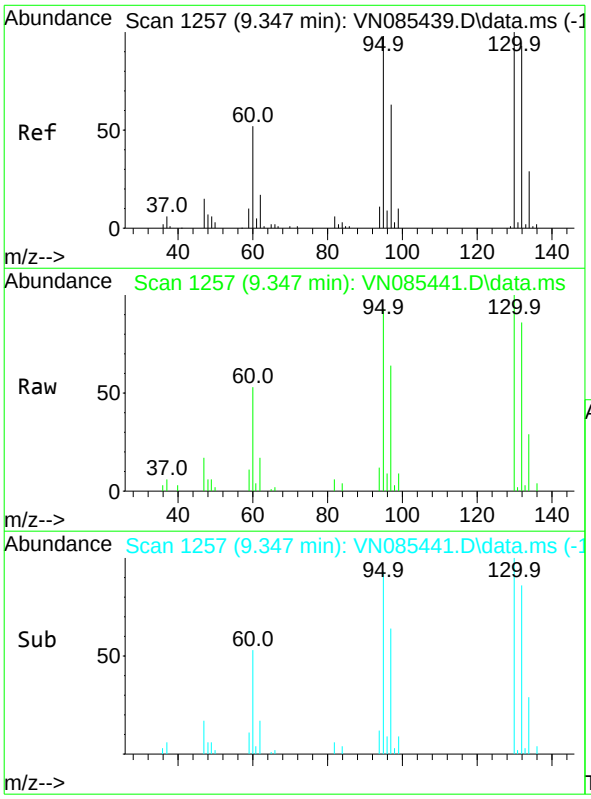
Ion	Ratio	Lower	Upper
43	100		
61	26.2	20.7	31.1
87	12.8	9.8	14.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

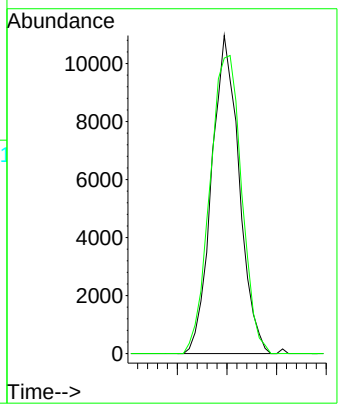
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

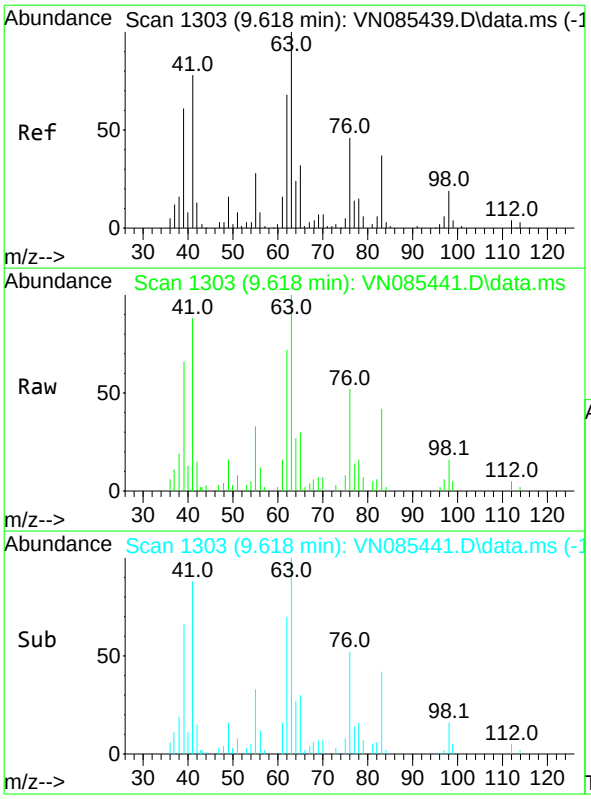


#44
Trichloroethene
Concen: 9.108 ug/l
RT: 9.347 min Scan# 1257
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:130 Resp: 21113

Ion	Ratio	Lower	Upper
130	100		
95	92.9	0.0	195.8

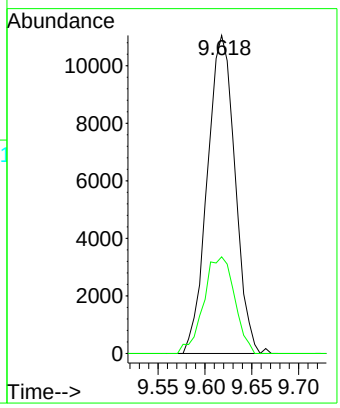




#45
1,2-Dichloropropane
Concen: 8.942 ug/l
RT: 9.618 min Scan# 13
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 63 Resp: 22747

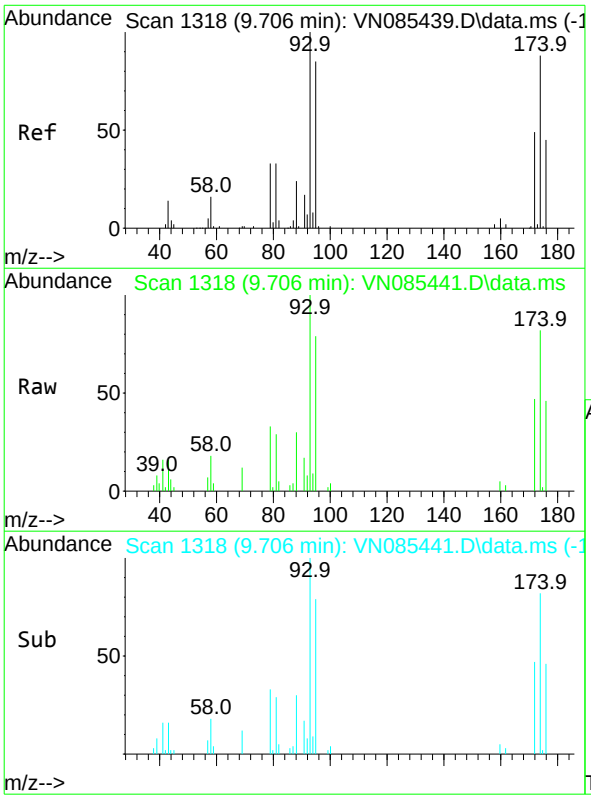
Ion	Ratio	Lower	Upper
63	100		
65	30.4	25.6	38.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

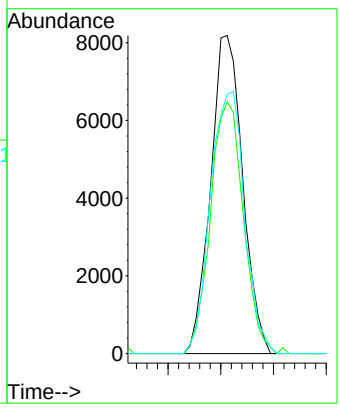
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

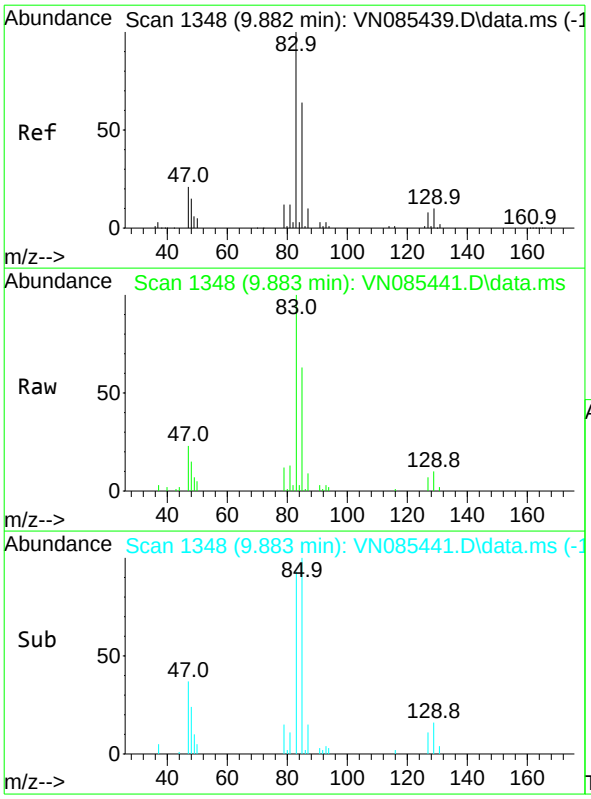


#46
Dibromomethane
Concen: 9.404 ug/l
RT: 9.706 min Scan# 1318
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 93 Resp: 17260

Ion	Ratio	Lower	Upper
93	100		
95	81.5	64.7	97.1
174	87.8	69.0	103.4

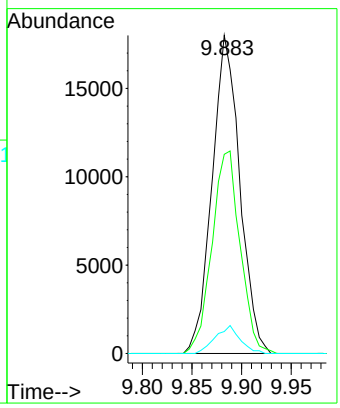




#47
Bromodichloromethane
Concen: 9.365 ug/l
RT: 9.883 min Scan# 13
Delta R.T. 0.001 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 83 Resp: 35020

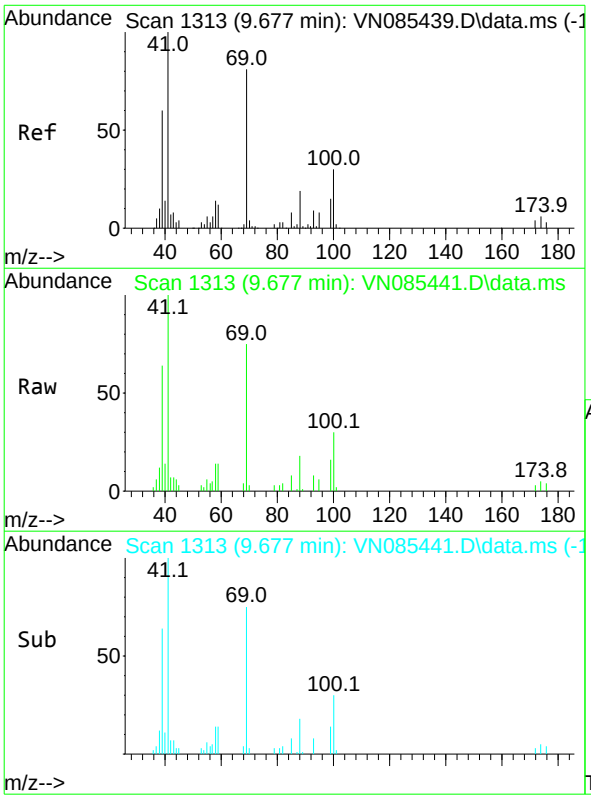
Ion	Ratio	Lower	Upper
83	100		
85	62.6	51.2	76.8
127	6.9	6.5	9.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

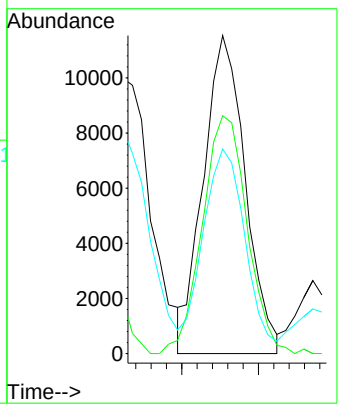
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

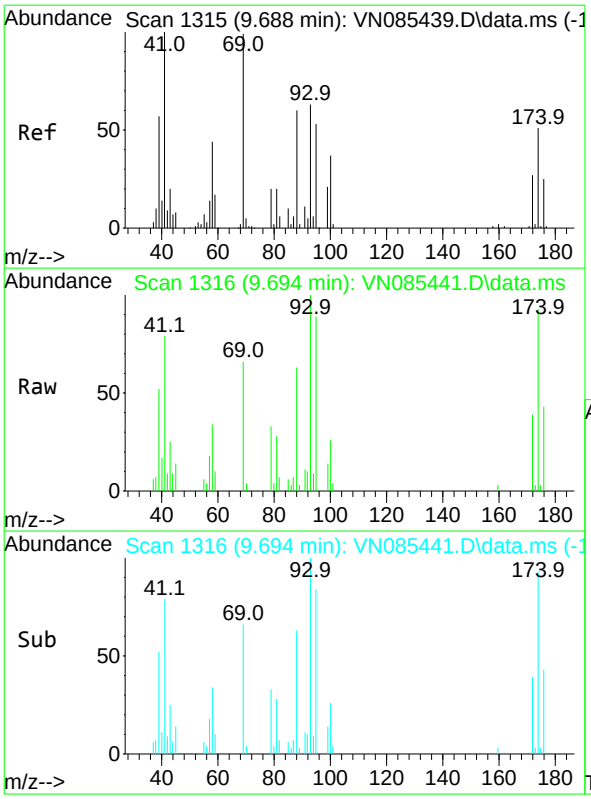


#48
Methyl methacrylate
Concen: 9.067 ug/l
RT: 9.677 min Scan# 1313
Delta R.T. -0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 41 Resp: 21873

Ion	Ratio	Lower	Upper
41	100		
69	80.0	64.7	97.1
39	65.2	49.0	73.6





#49
1,4-Dioxane
Concen: 190.382 ug/l
RT: 9.694 min Scan# 13
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

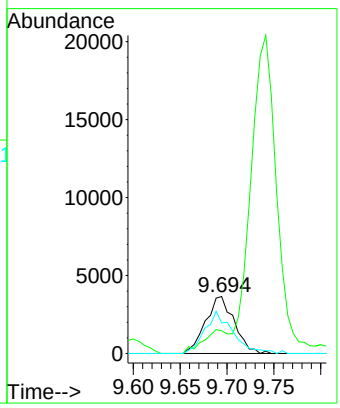
Tgt Ion: 88 Resp: 7734

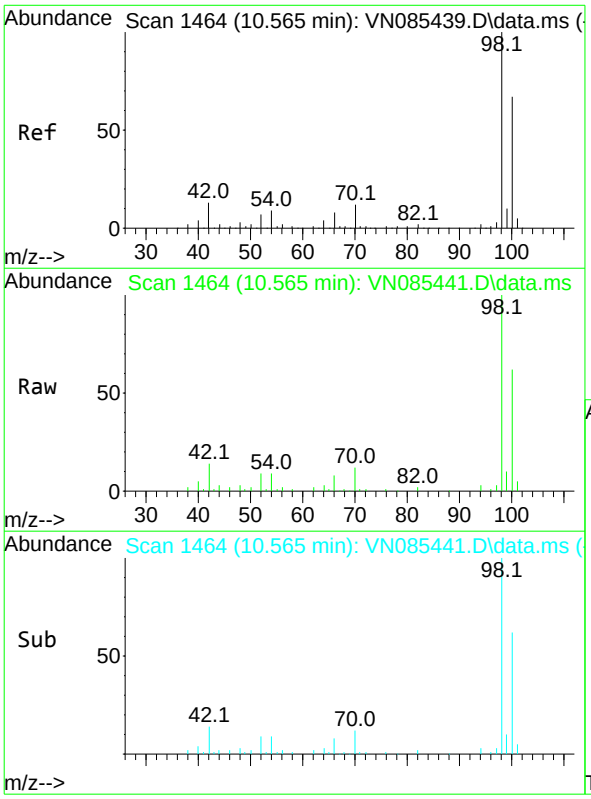
Ion	Ratio	Lower	Upper
88	100		
43	35.2	26.6	39.8
58	73.3	59.5	89.3

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

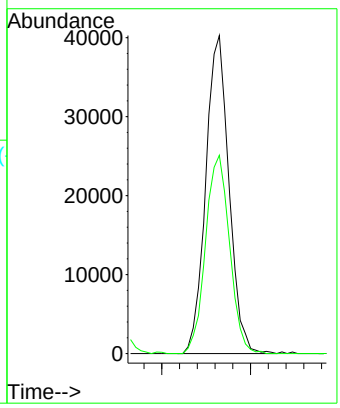


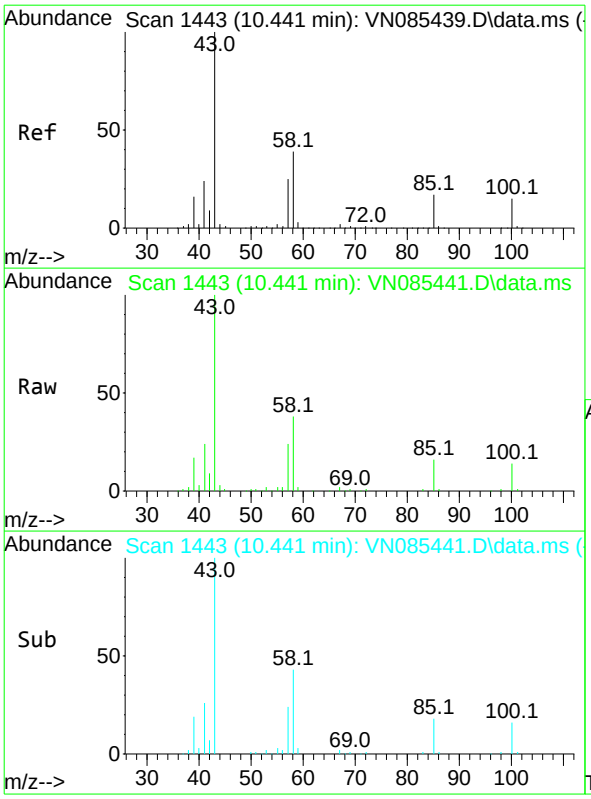


#50
Toluene-d8
Concen: 8.727 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 98 Resp: 73223

Ion	Ratio	Lower	Upper
98	100		
100	64.5	52.2	78.4

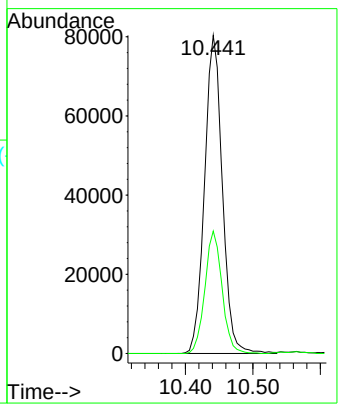




#51
4-Methyl-2-Pentanone
Concen: 47.254 ug/l
RT: 10.441 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 43 Resp: 146990

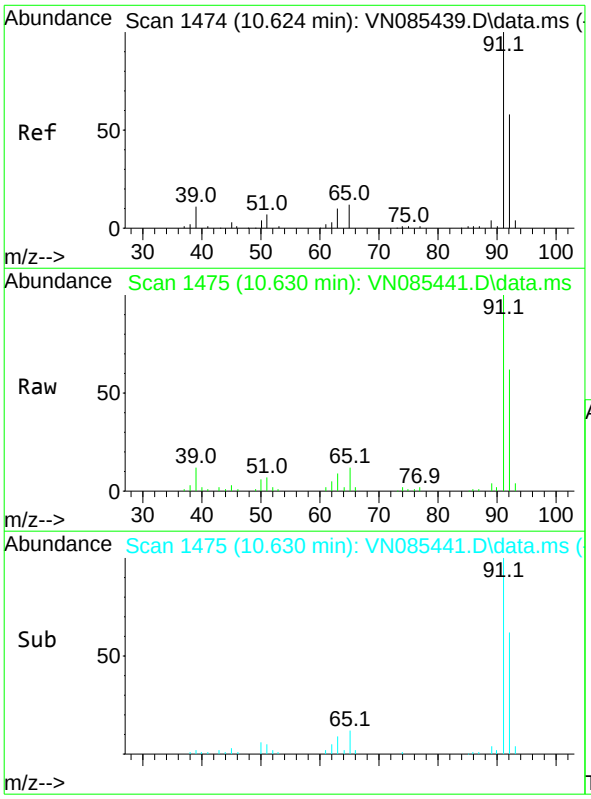
Ion	Ratio	Lower	Upper
43	100		
58	37.1	30.5	45.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

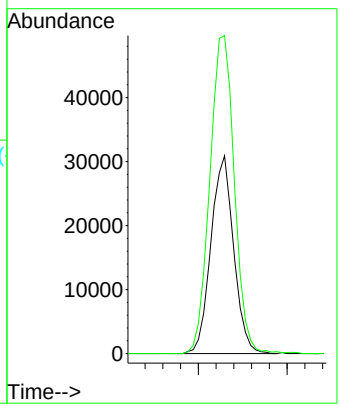
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

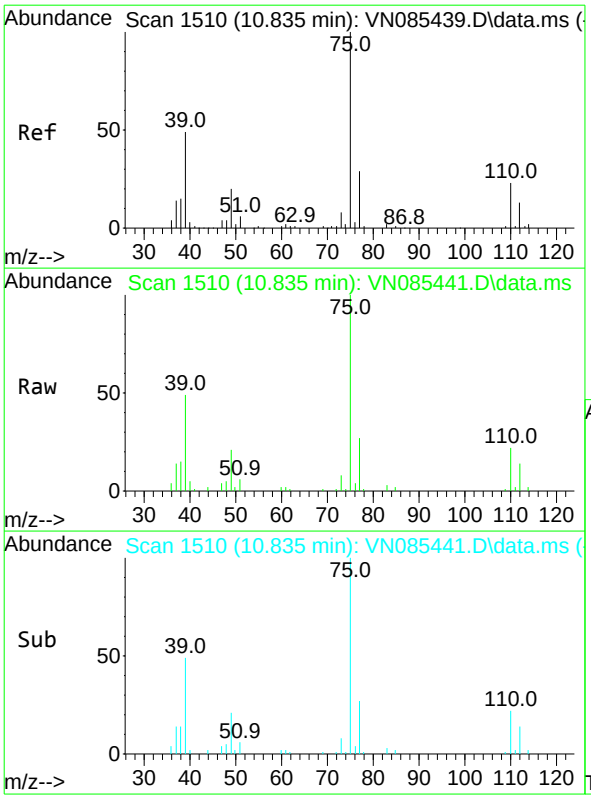


#52
Toluene
Concen: 9.527 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 92 Resp: 54976

Ion	Ratio	Lower	Upper
92	100		
91	173.7	139.2	208.8

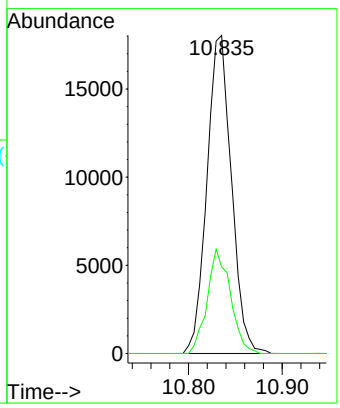




#53
t-1,3-Dichloropropene
Concen: 9.276 ug/l
RT: 10.835 min Scan# 15
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 75 Resp: 32780

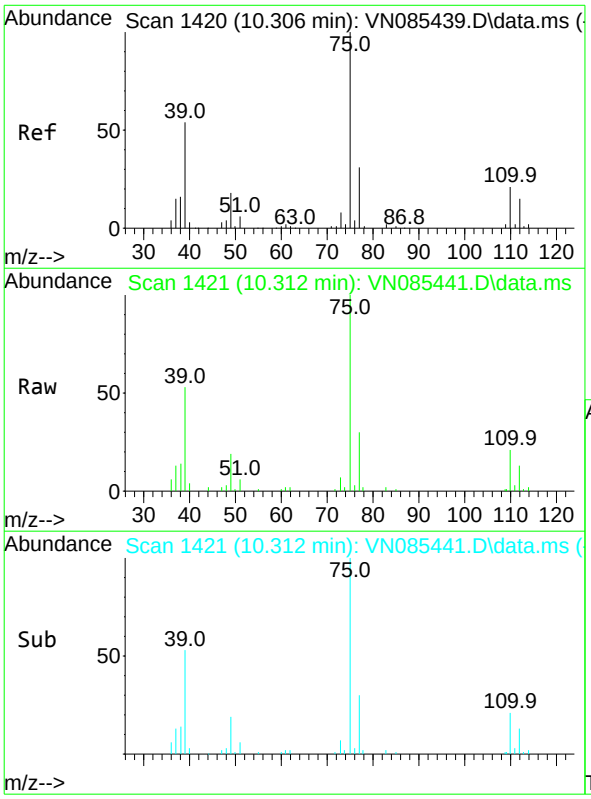
Ion	Ratio	Lower	Upper
75	100		
77	27.2	23.5	35.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

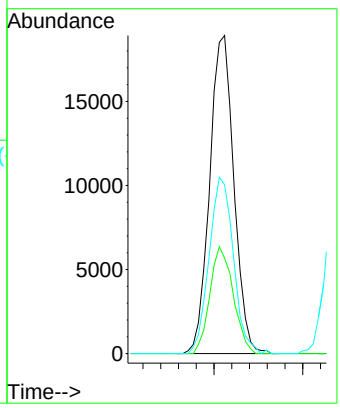
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

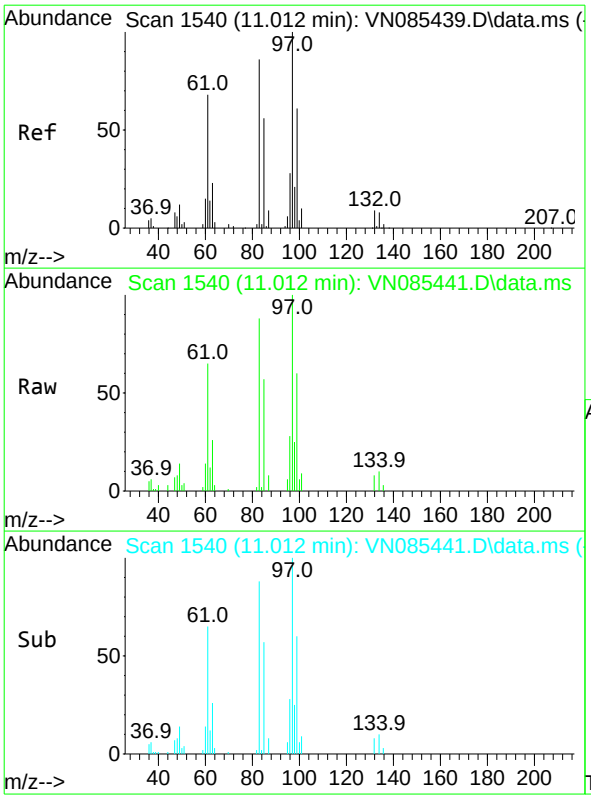


#54
cis-1,3-Dichloropropene
Concen: 9.512 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 75 Resp: 35904

Ion	Ratio	Lower	Upper
75	100		
77	30.0	25.0	37.4
39	53.1	43.1	64.7

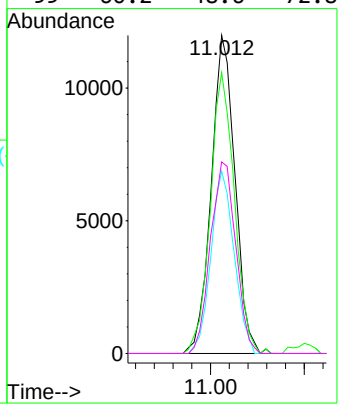




#55
1,1,2-Trichloroethane
Concen: 9.222 ug/l
RT: 11.012 min Scan# 15
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 97 Resp: 21060

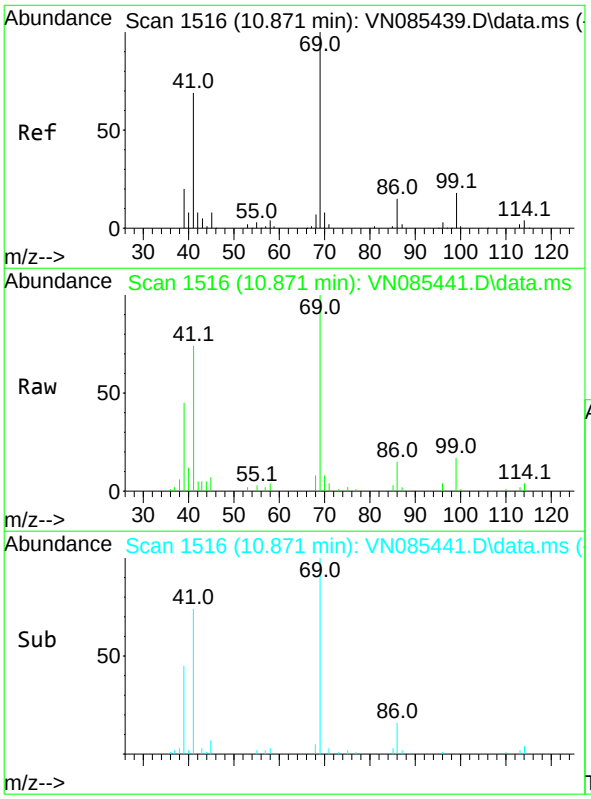
Ion	Ratio	Lower	Upper
97	100		
83	88.3	69.0	103.6
85	57.3	44.6	66.8
99	60.2	48.6	72.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

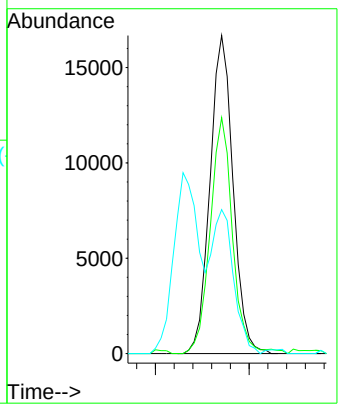
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

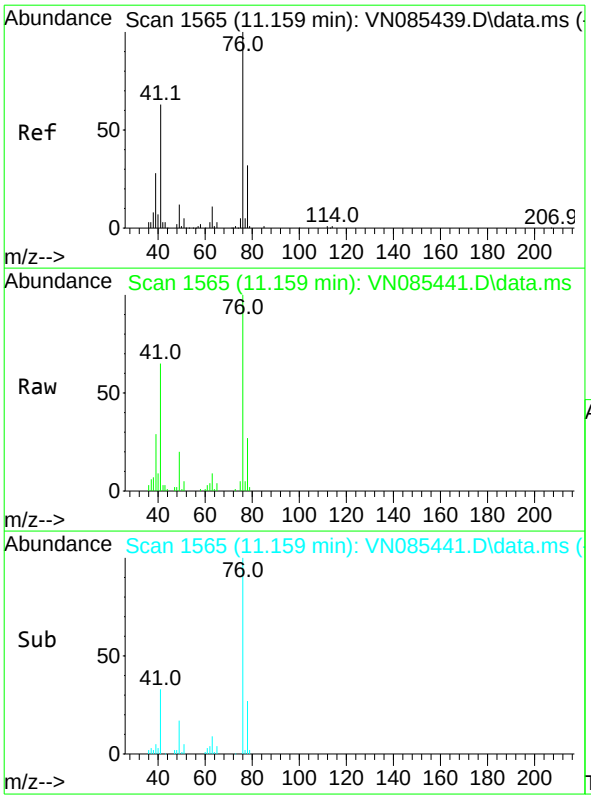


#56
Ethyl methacrylate
Concen: 9.042 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 69 Resp: 28454

Ion	Ratio	Lower	Upper
69	100		
41	72.1	54.6	82.0
39	43.4	32.4	48.6

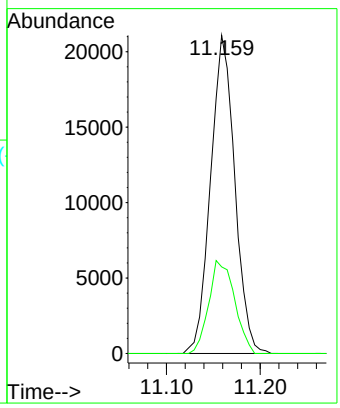




#57
1,3-Dichloropropane
Concen: 9.512 ug/l
RT: 11.159 min Scan# 15
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 76 Resp: 37768

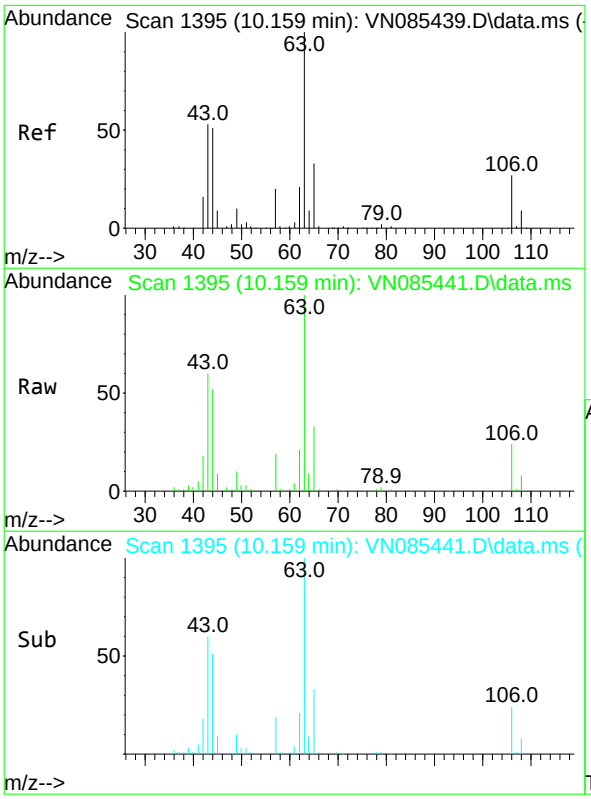
Ion	Ratio	Lower	Upper
76	100		
78	31.1	25.6	38.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

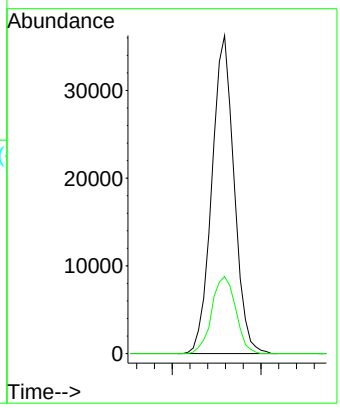
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

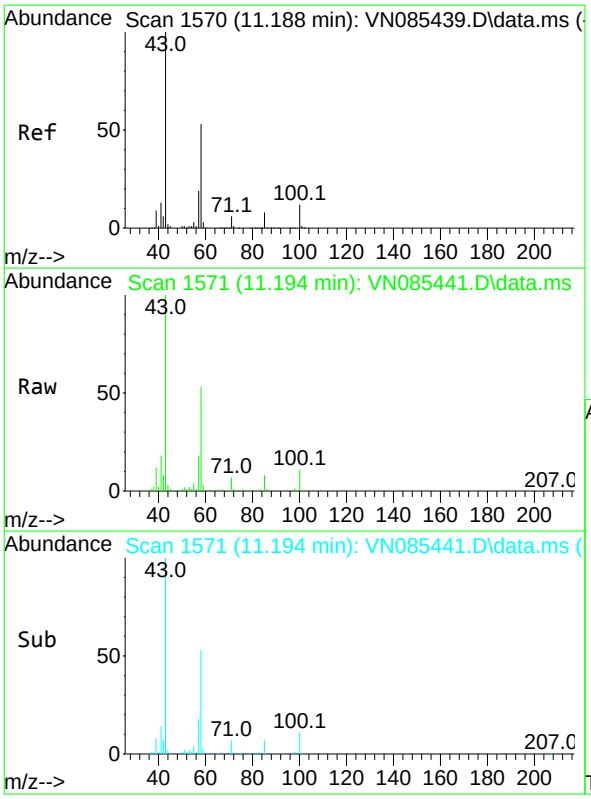


#58
2-Chloroethyl Vinyl ether
Concen: 43.550 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 63 Resp: 63110

Ion	Ratio	Lower	Upper
63	100		
106	26.1	21.6	32.4

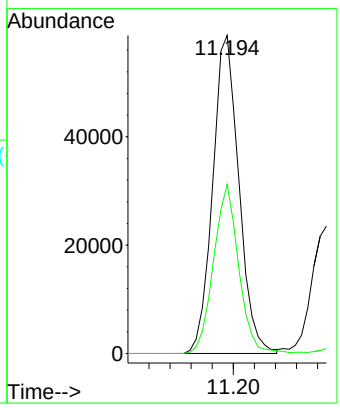




#59
2-Hexanone
Concen: 46.291 ug/l
RT: 11.194 min Scan# 15
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 43 Resp: 101318

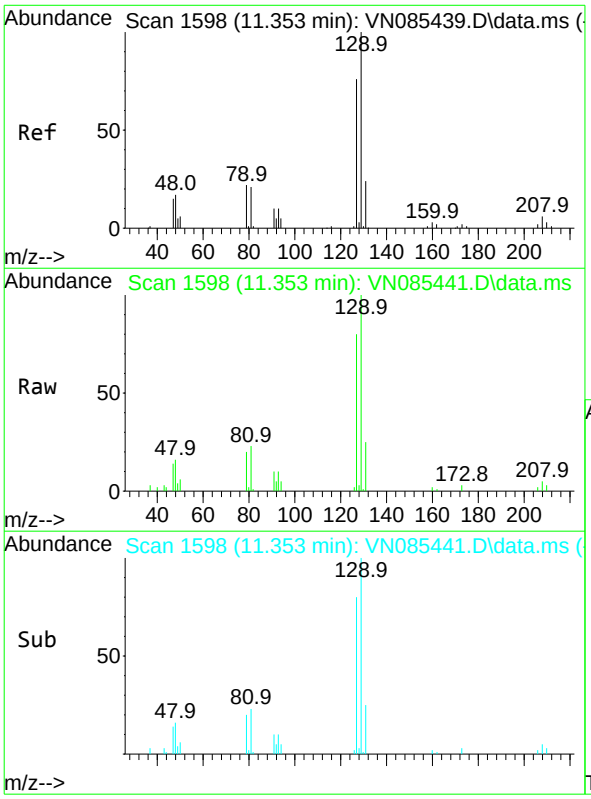
Ion	Ratio	Lower	Upper
43	100		
58	50.9	26.2	78.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

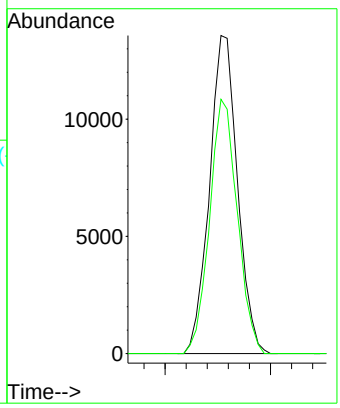
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

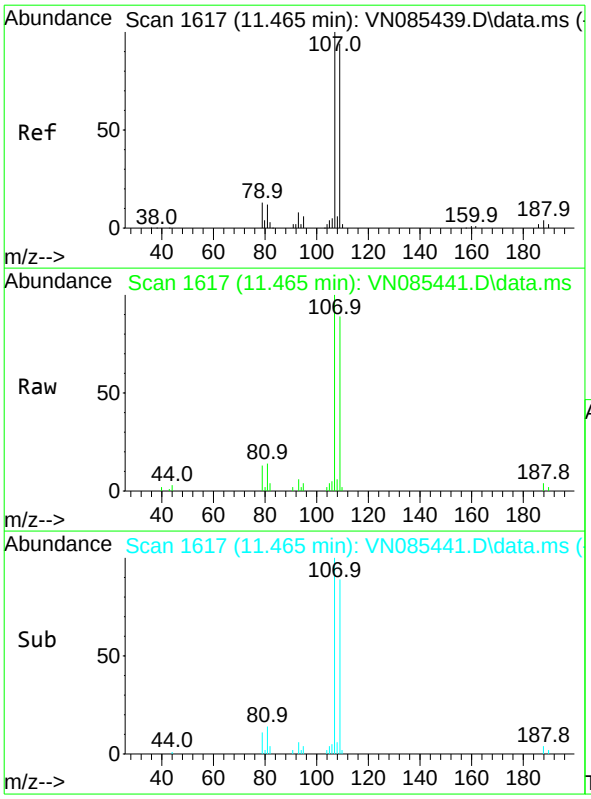


#60
Dibromochloromethane
Concen: 9.079 ug/l
RT: 11.353 min Scan# 1598
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:129 Resp: 25029

Ion	Ratio	Lower	Upper
129	100		
127	79.1	38.6	115.8

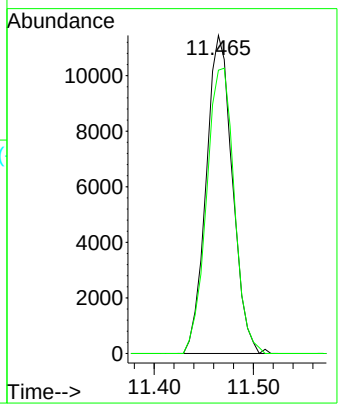




#61
1,2-Dibromoethane
Concen: 9.263 ug/l
RT: 11.465 min Scan# 16
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:107 Resp: 21055

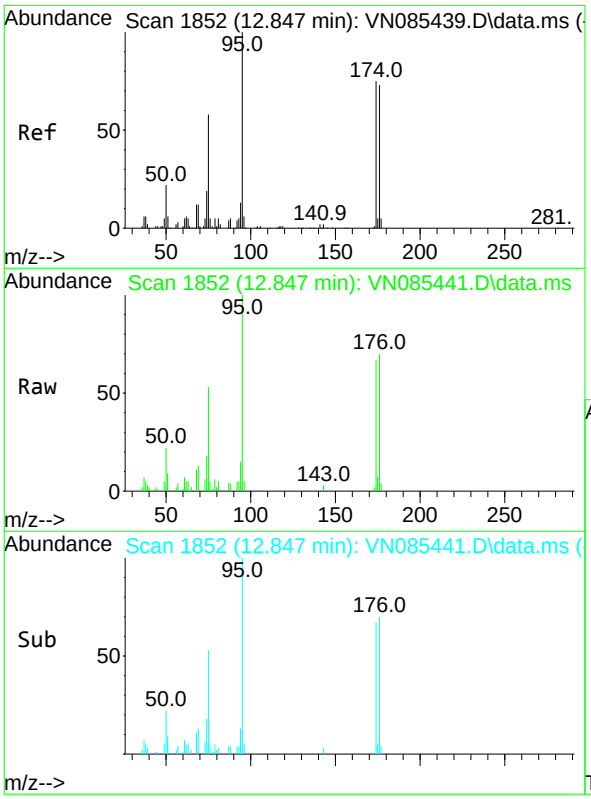
Ion	Ratio	Lower	Upper
107	100		
109	94.6	75.9	113.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

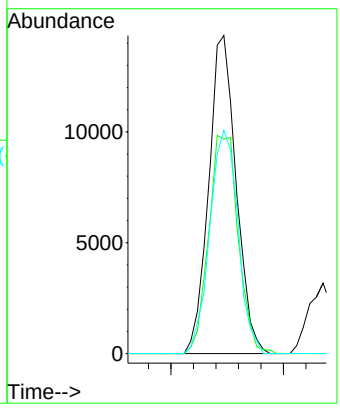
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

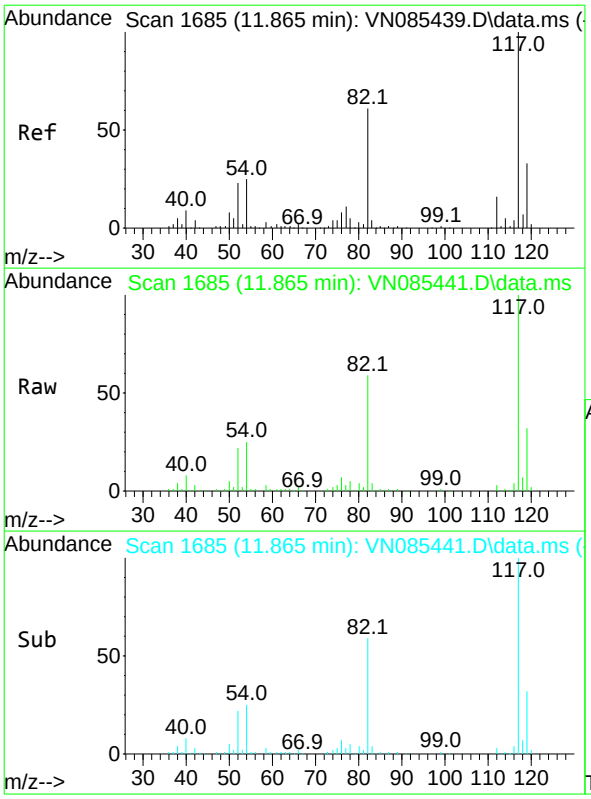


#62
4-Bromofluorobenzene
Concen: 8.476 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 95 Resp: 24327

Ion	Ratio	Lower	Upper
95	100		
174	73.9	0.0	145.0
176	72.1	0.0	142.4

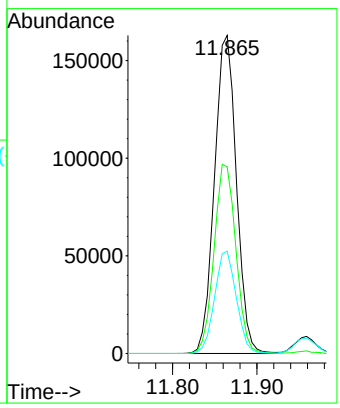




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 16
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:117 Resp: 294508

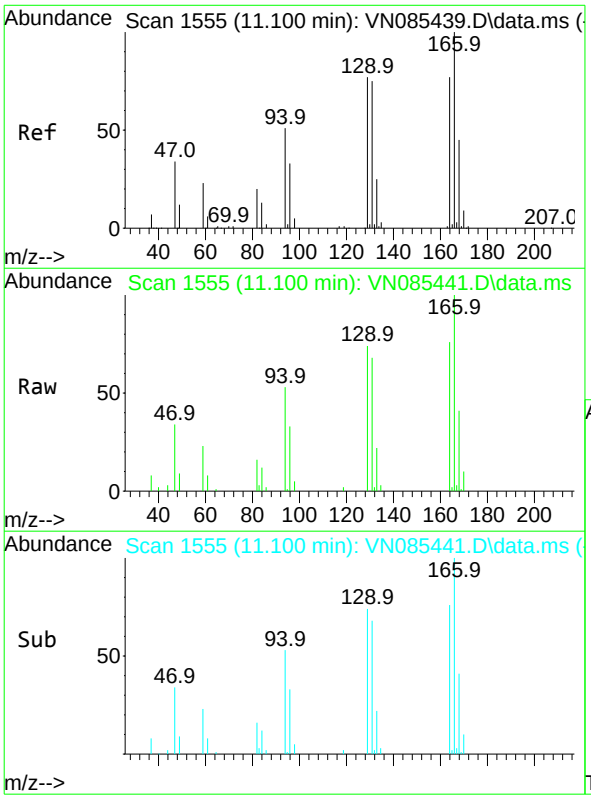
Ion	Ratio	Lower	Upper
117	100		
82	58.7	48.6	72.8
119	32.2	26.6	39.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

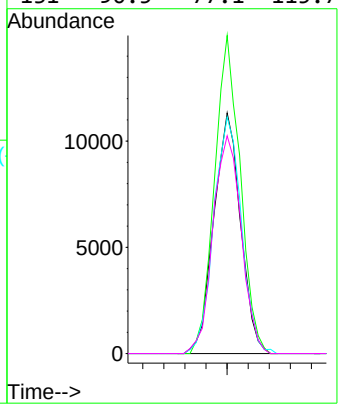
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

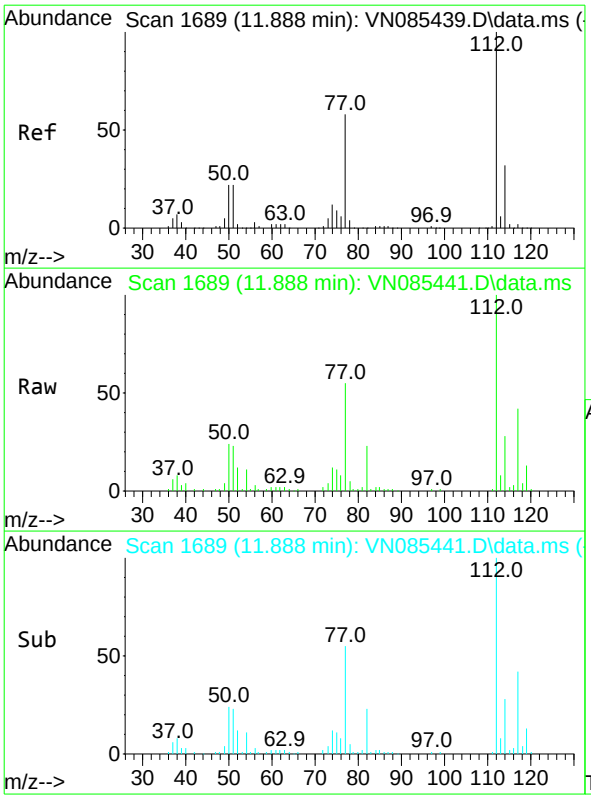


#64
Tetrachloroethene
Concen: 9.928 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:164 Resp: 19934

Ion	Ratio	Lower	Upper
164	100		
166	132.2	103.4	155.2
129	98.3	79.2	118.8
131	90.5	77.1	115.7

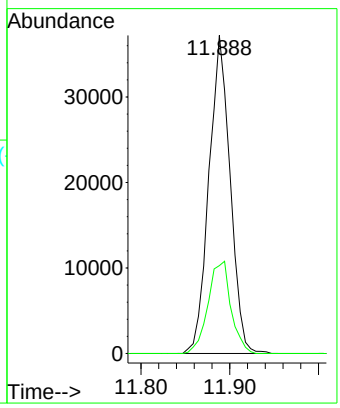




#65
Chlorobenzene
Concen: 9.560 ug/l
RT: 11.888 min Scan# 16
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:112 Resp: 61680

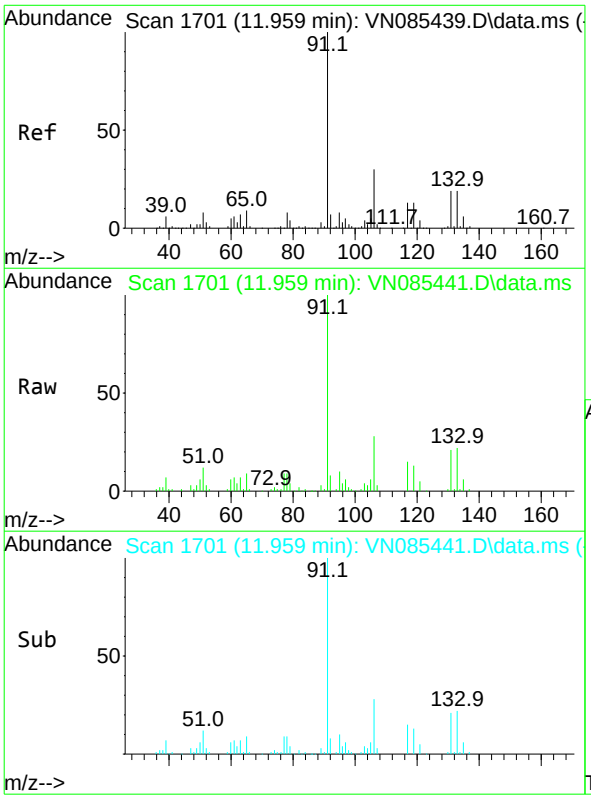
Ion	Ratio	Lower	Upper
112	100		
114	27.6	25.3	37.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

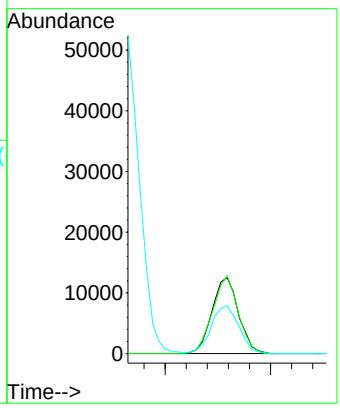
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

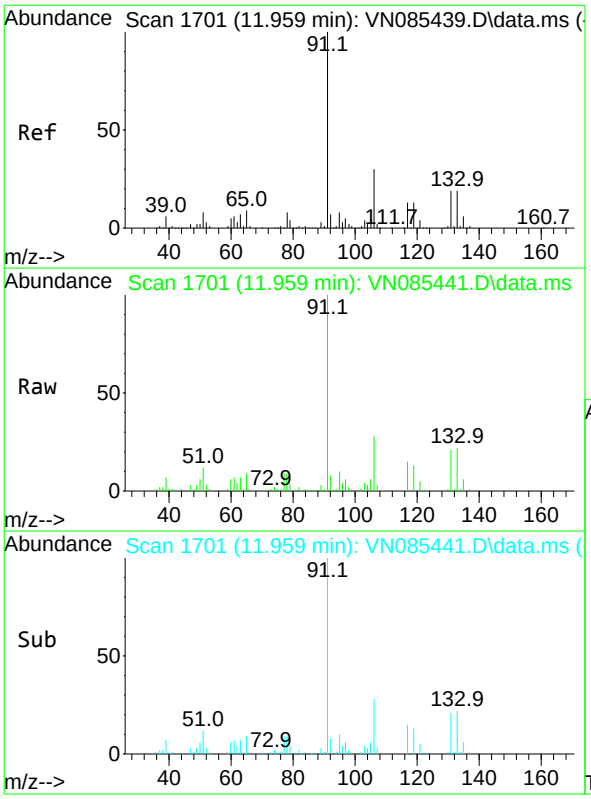


#66
1,1,1,2-Tetrachloroethane
Concen: 9.229 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:131 Resp: 21853

Ion	Ratio	Lower	Upper
131	100		
133	98.5	47.4	142.3
119	66.0	33.1	99.5

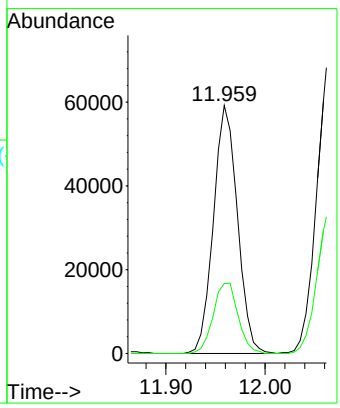




#67
Ethyl Benzene
Concen: 9.445 ug/l
RT: 11.959 min Scan# 17
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 91 Resp: 99248

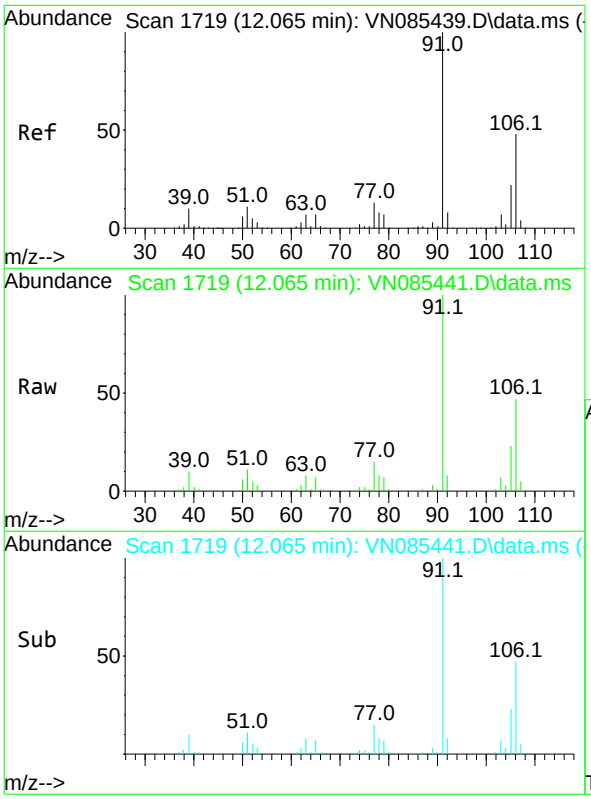
Ion	Ratio	Lower	Upper
91	100		
106	28.2	23.8	35.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

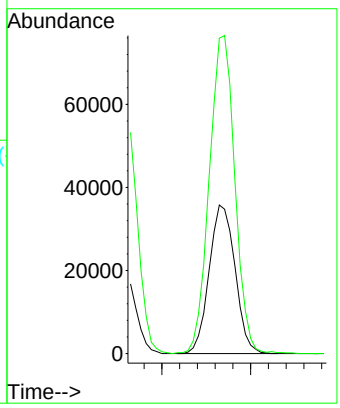
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

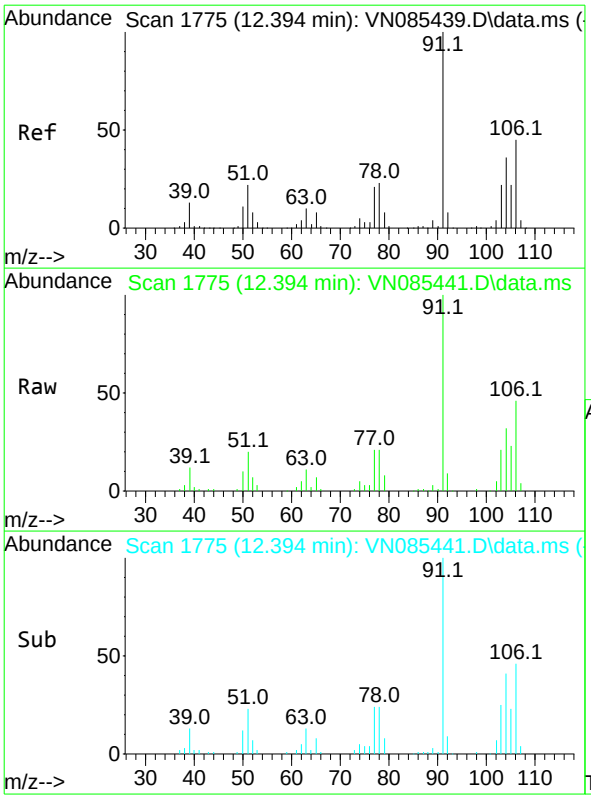


#68
m/p-Xylenes
Concen: 18.650 ug/l
RT: 12.065 min Scan# 1719
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:106 Resp: 72431

Ion	Ratio	Lower	Upper
106	100		
91	211.7	167.7	251.5

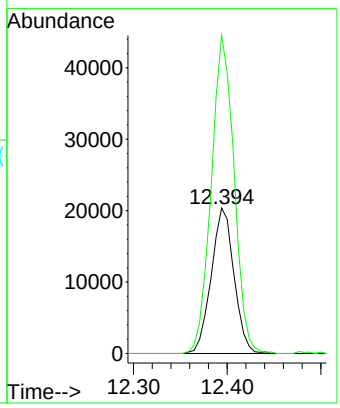




#69
o-Xylene
Concen: 9.264 ug/l
RT: 12.394 min Scan# 17
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:106 Resp: 34382

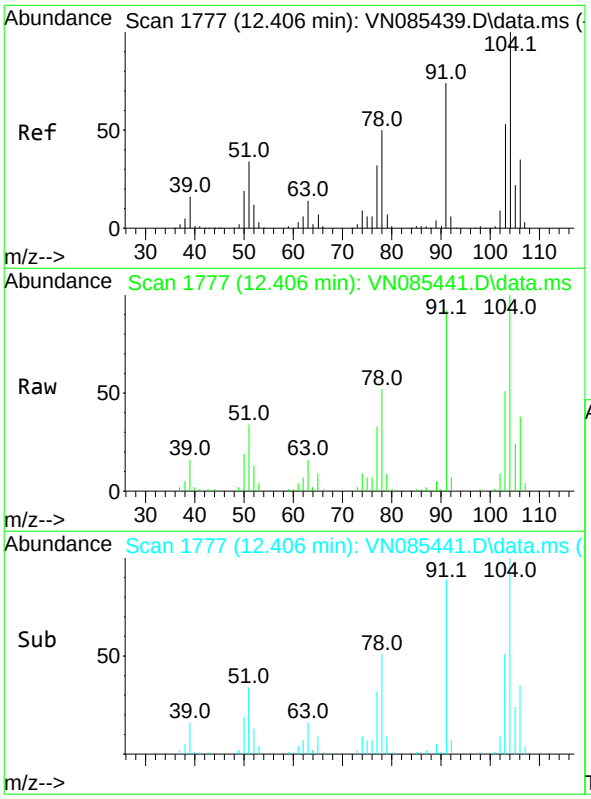
Ion	Ratio	Lower	Upper
106	100		
91	219.5	110.4	331.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

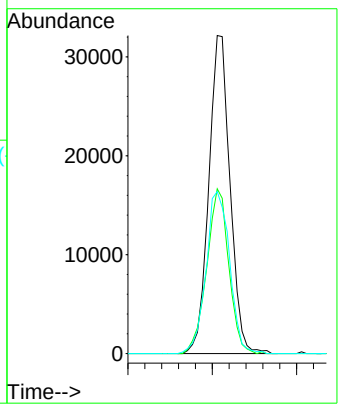
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

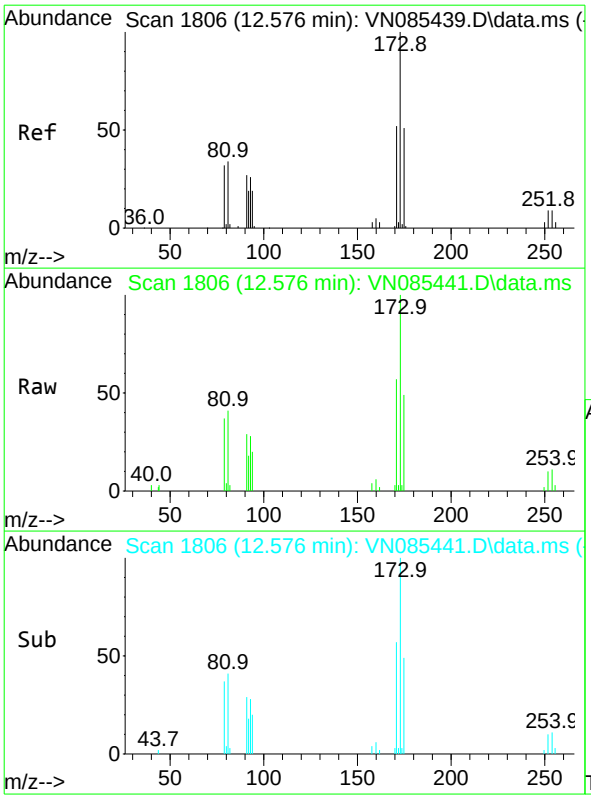


#70
Styrene
Concen: 9.163 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:104 Resp: 56285

Ion	Ratio	Lower	Upper
104	100		
78	53.8	42.5	63.7
103	56.8	43.8	65.8

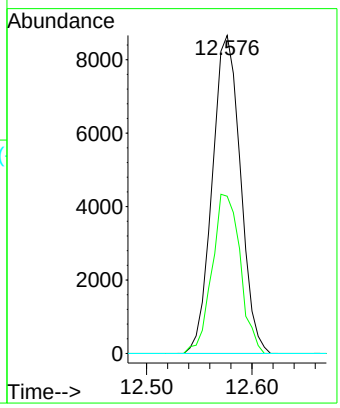




#71
Bromoform
Concen: 9.485 ug/l
RT: 12.576 min Scan# 18
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:173 Resp: 16071

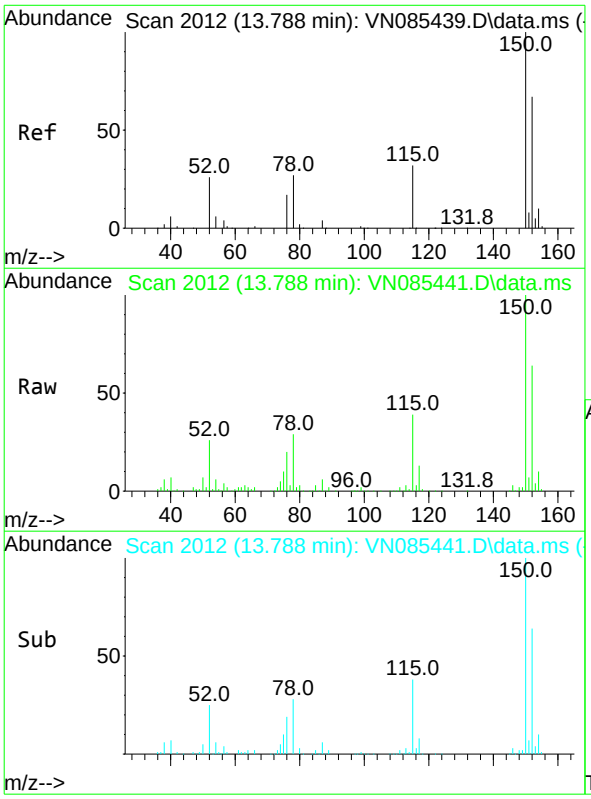
Ion	Ratio	Lower	Upper
173	100		
175	50.0	24.4	73.2
254	0.0	0.0	0.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

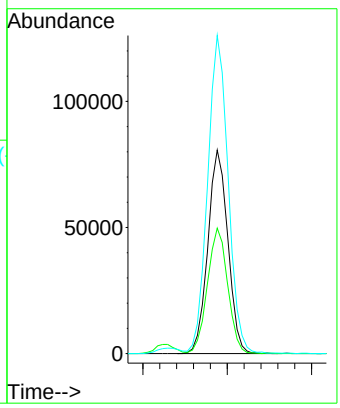
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

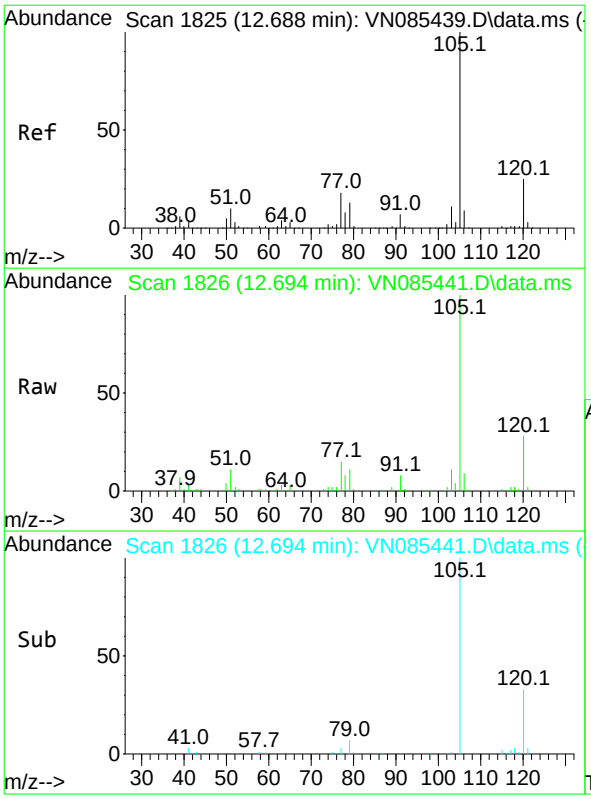


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:152 Resp: 132934

Ion	Ratio	Lower	Upper
152	100		
115	62.3	31.1	93.3
150	159.8	0.0	343.6

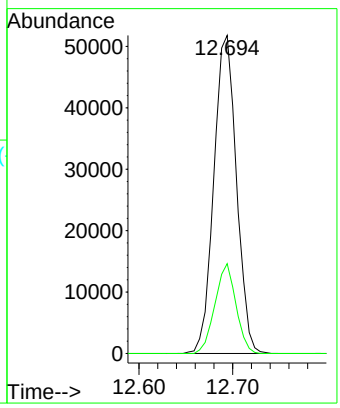




#73
Isopropylbenzene
Concen: 9.697 ug/l
RT: 12.694 min Scan# 18
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:105 Resp: 87003

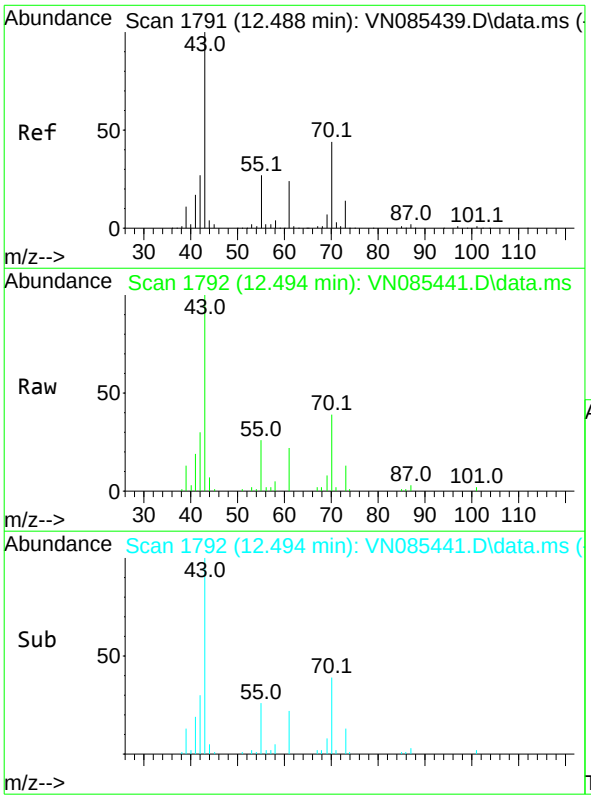
Ion	Ratio	Lower	Upper
105	100		
120	26.1	12.8	38.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

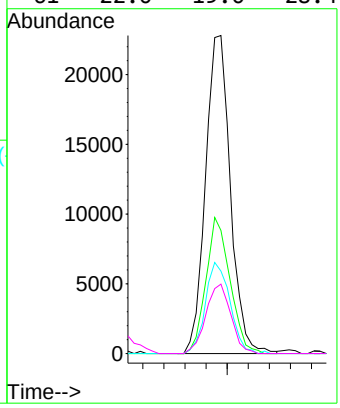
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

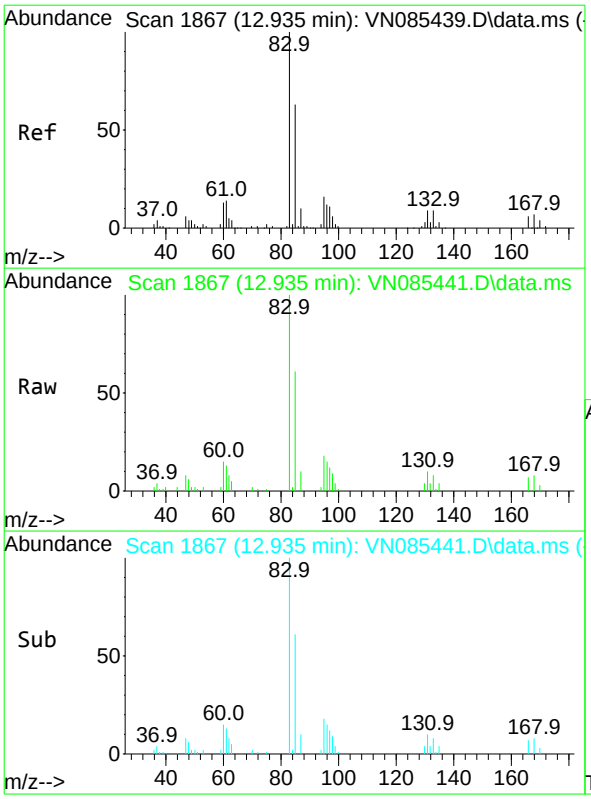


#74
N-amyl acetate
Concen: 9.260 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 43 Resp: 37343

Ion	Ratio	Lower	Upper
43	100		
70	41.4	34.0	51.0
55	28.5	21.4	32.2
61	22.0	19.0	28.4

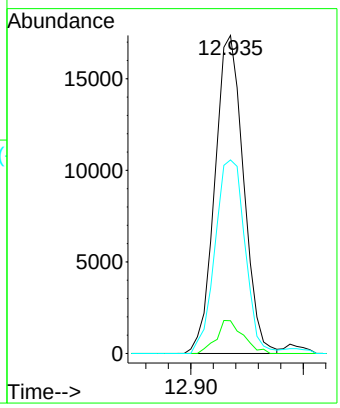




#75
1,1,2,2-Tetrachloroethane
Concen: 9.709 ug/l
RT: 12.935 min Scan# 18
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 83 Resp: 30770

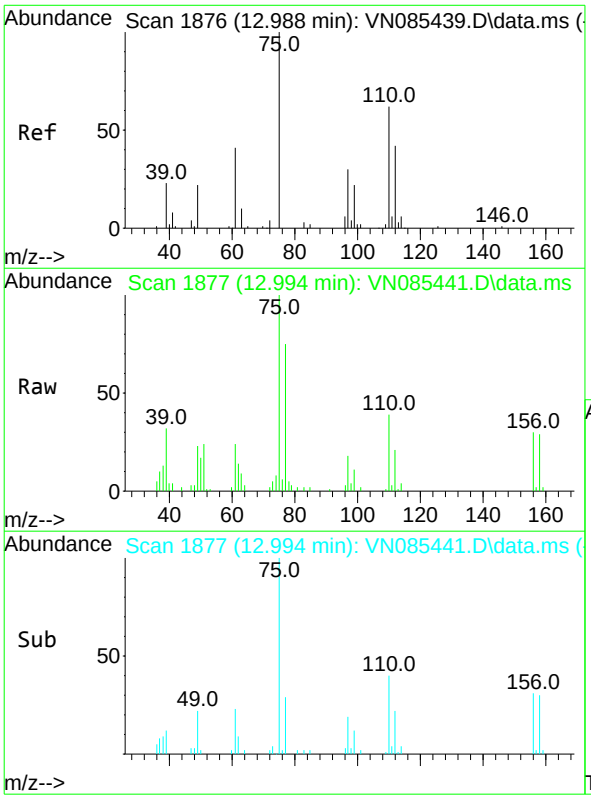
Ion	Ratio	Lower	Upper
83	100		
131	9.6	4.8	14.4
85	63.6	32.2	96.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

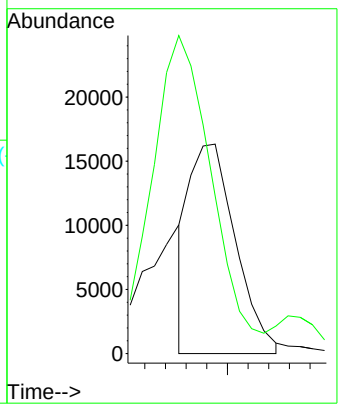
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

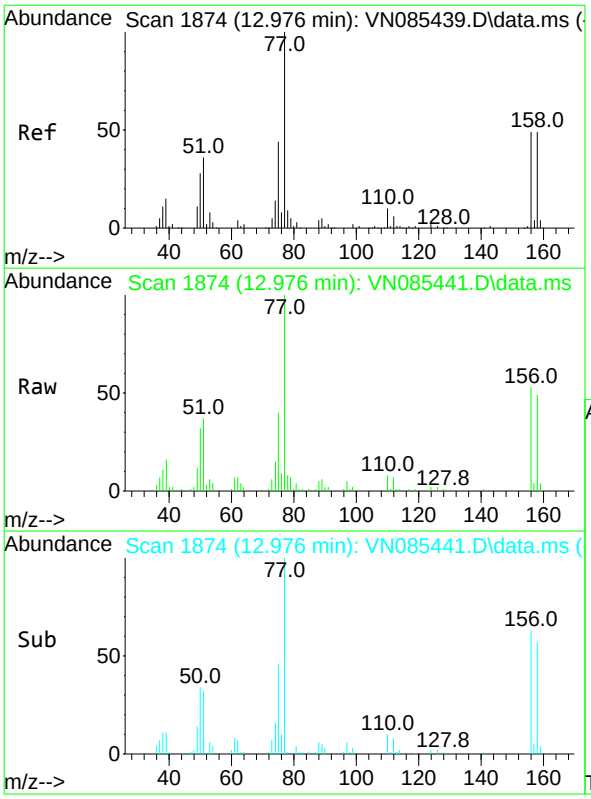


#76
1,2,3-Trichloropropane
Concen: 9.432 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 75 Resp: 25443

Ion	Ratio	Lower	Upper
75	100		
77	198.5	109.7	329.2

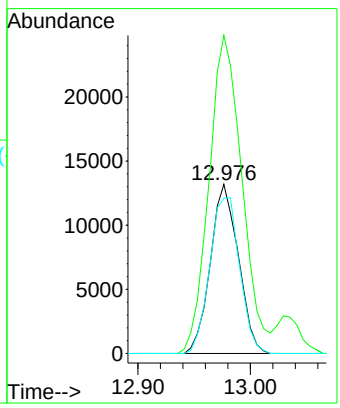




#77
Bromobenzene
Concen: 9.720 ug/l
RT: 12.976 min Scan# 18
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:156 Resp: 22784

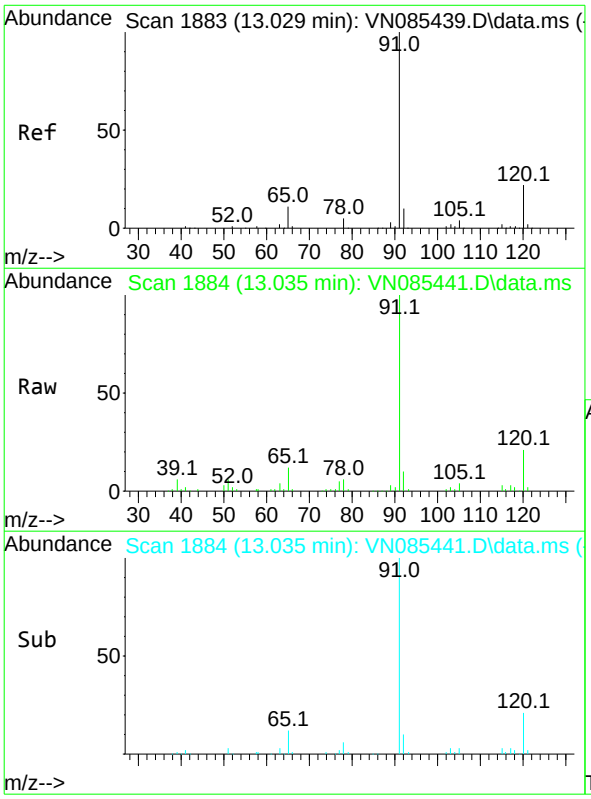
Ion	Ratio	Lower	Upper
156	100		
77	221.6	114.1	342.4
158	98.7	48.9	146.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

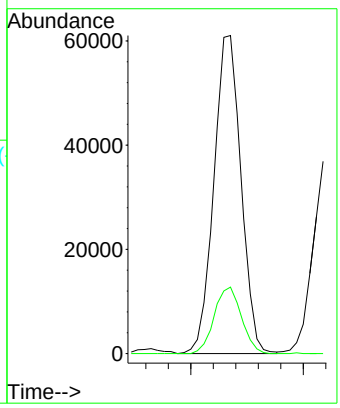
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

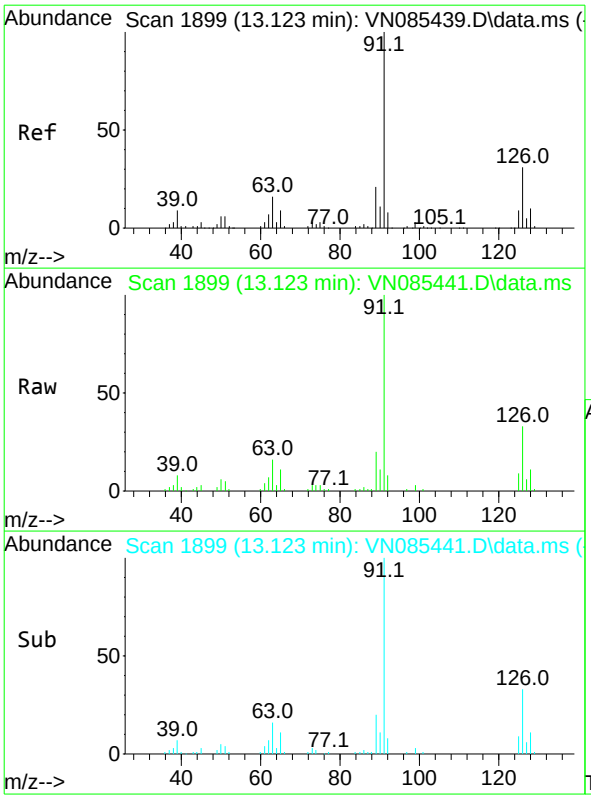


#78
n-propylbenzene
Concen: 9.628 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 91 Resp: 102262

Ion	Ratio	Lower	Upper
91	100		
120	20.9	10.9	32.6

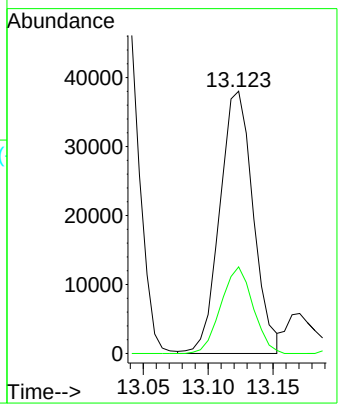




#79
2-Chlorotoluene
Concen: 9.943 ug/l
RT: 13.123 min Scan# 18
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 91 Resp: 68346

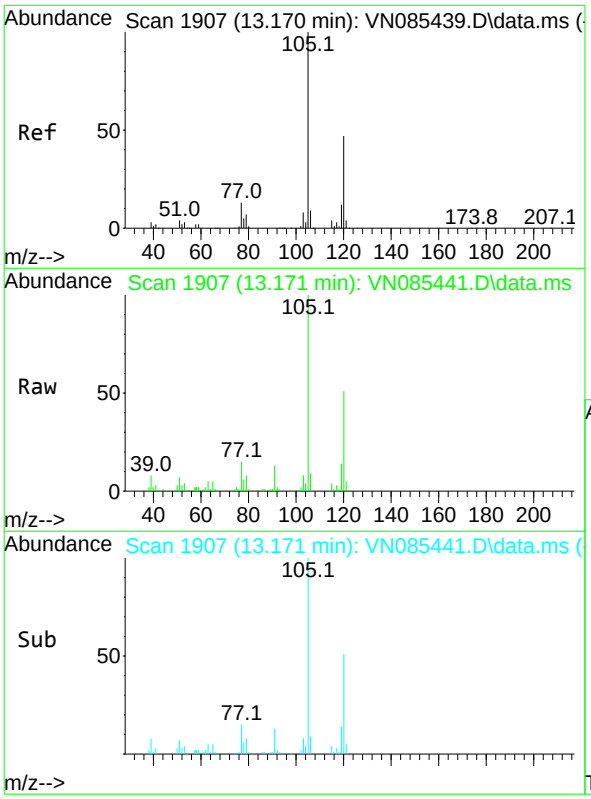
Ion	Ratio	Lower	Upper
91	100		
126	31.5	15.7	47.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

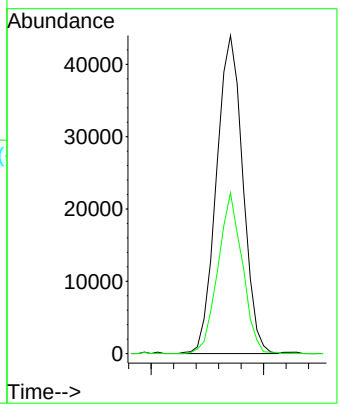
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

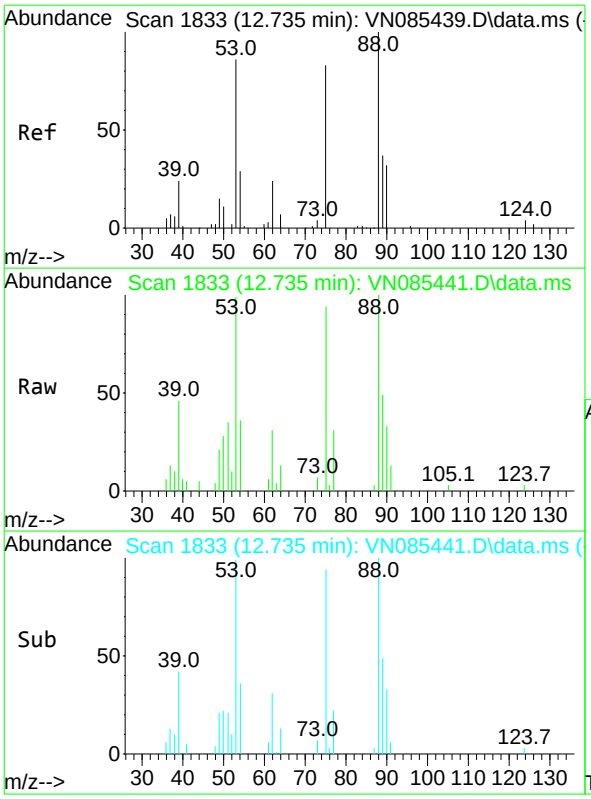


#80
1,3,5-Trimethylbenzene
Concen: 9.669 ug/l
RT: 13.171 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:105 Resp: 71656

Ion	Ratio	Lower	Upper
105	100		
120	46.8	23.9	71.7

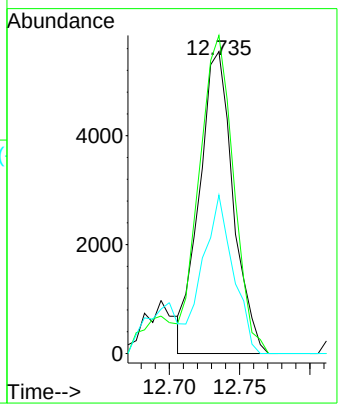




#81
trans-1,4-Dichloro-2-butene
Concen: 9.248 ug/l
RT: 12.735 min Scan# 18
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 75 Resp: 9236

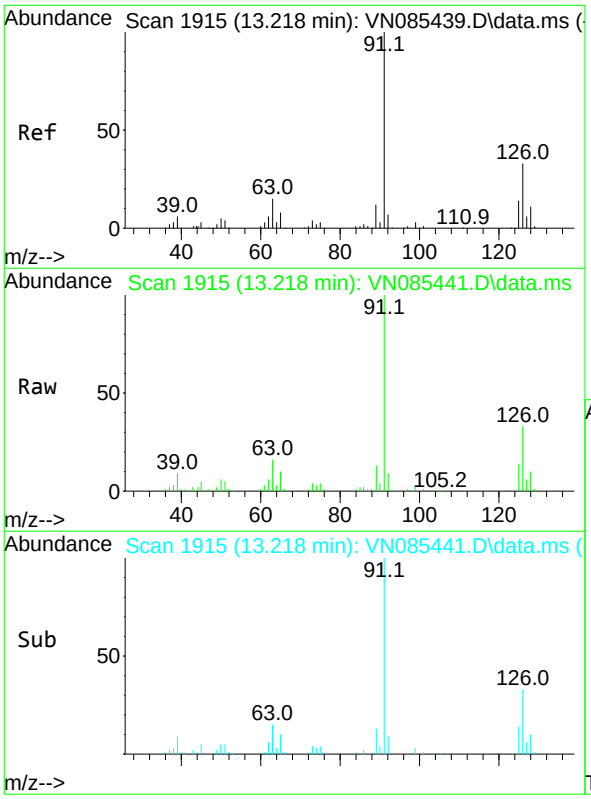
Ion	Ratio	Lower	Upper
75	100		
53	119.6	95.6	143.4
89	46.6	37.0	55.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

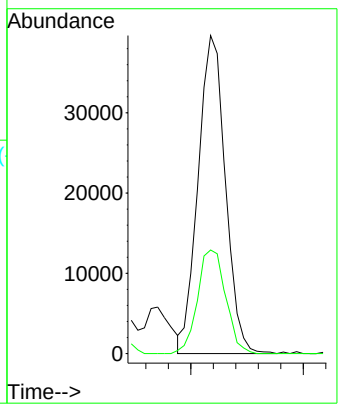
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

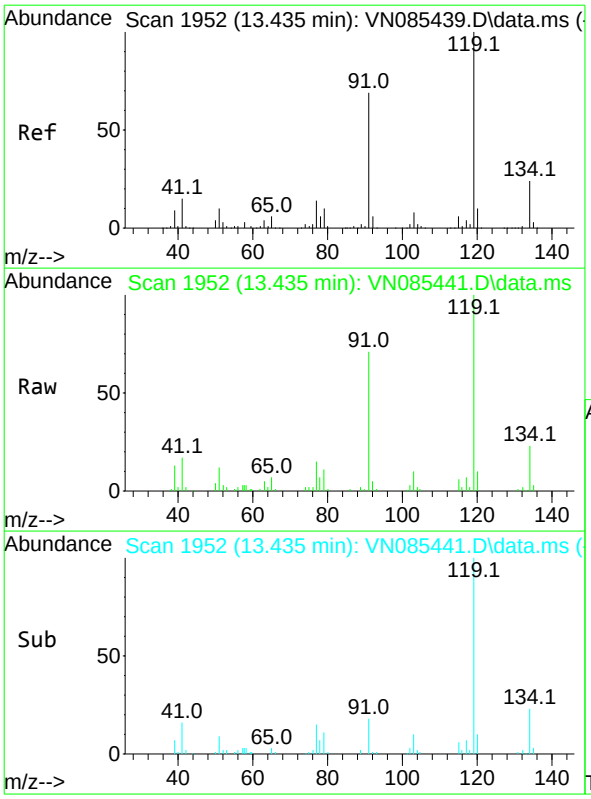


#82
4-Chlorotoluene
Concen: 9.756 ug/l
RT: 13.218 min Scan# 1915
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 91 Resp: 66773

Ion	Ratio	Lower	Upper
91	100		
126	33.6	15.9	47.7

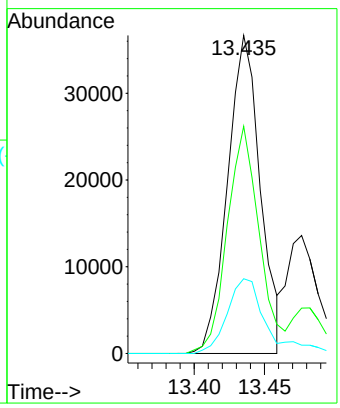




#83
tert-Butylbenzene
Concen: 9.553 ug/l
RT: 13.435 min Scan# 19
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:119 Resp: 59455

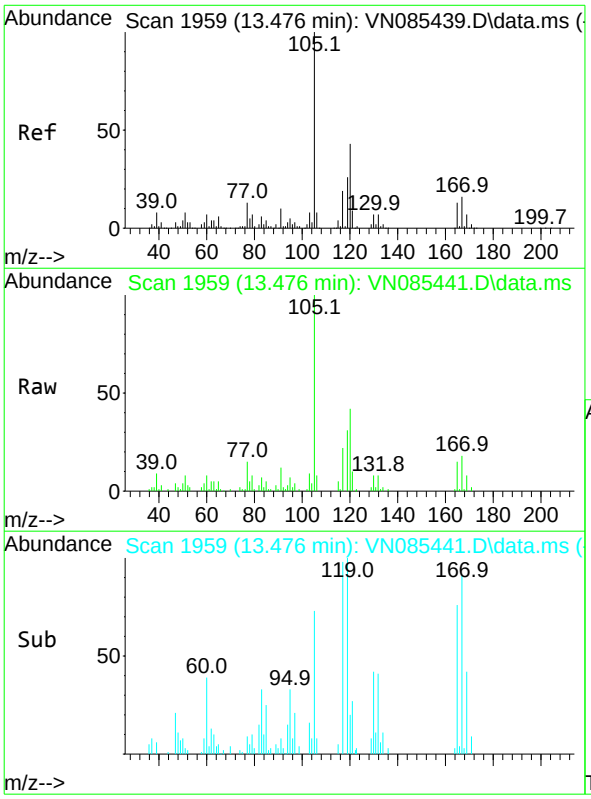
Ion	Ratio	Lower	Upper
119	100		
91	70.0	35.1	105.3
134	27.8	12.0	36.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

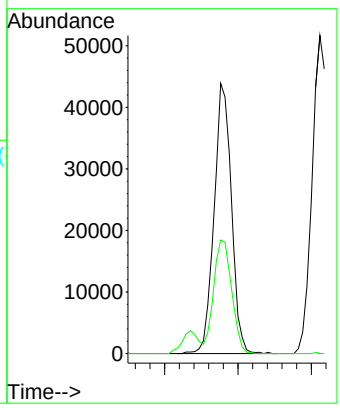
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

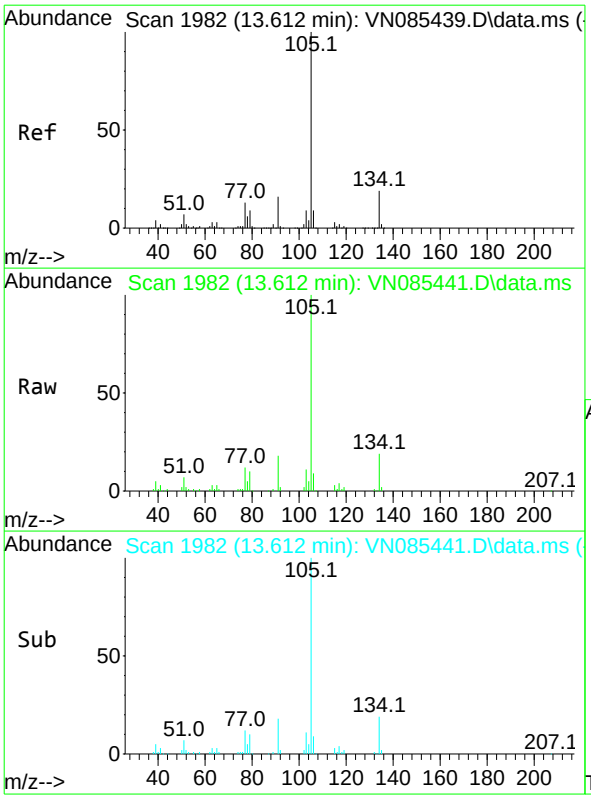


#84
1,2,4-Trimethylbenzene
Concen: 9.754 ug/l
RT: 13.476 min Scan# 1959
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:105 Resp: 72046

Ion	Ratio	Lower	Upper
105	100		
120	43.8	21.6	65.0

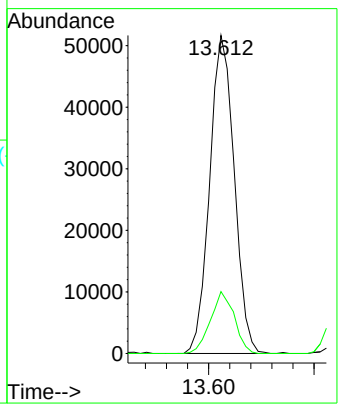




#85
sec-Butylbenzene
Concen: 9.699 ug/l
RT: 13.612 min Scan# 19
Delta R.T. -0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:105 Resp: 83662

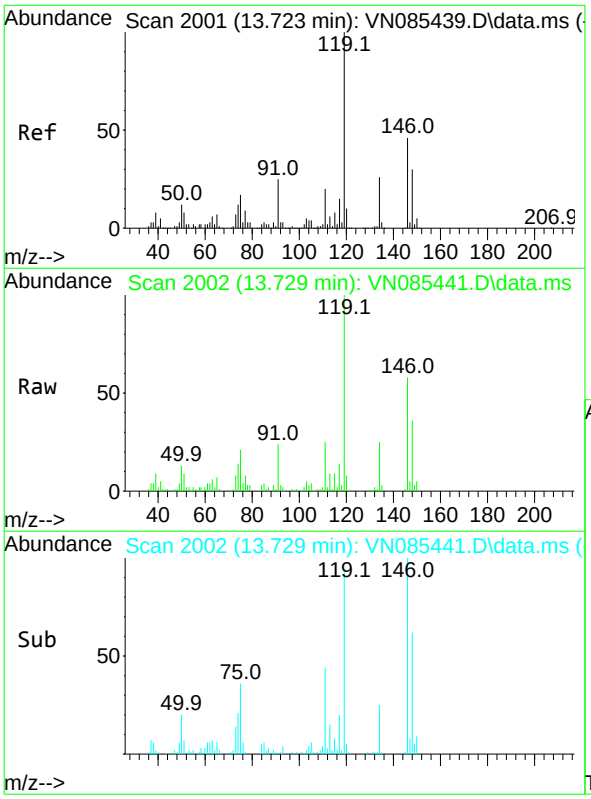
Ion	Ratio	Lower	Upper
105	100		
134	18.9	9.7	28.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

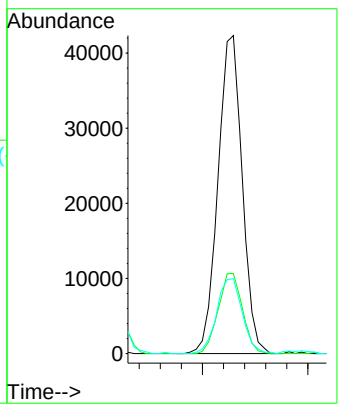
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

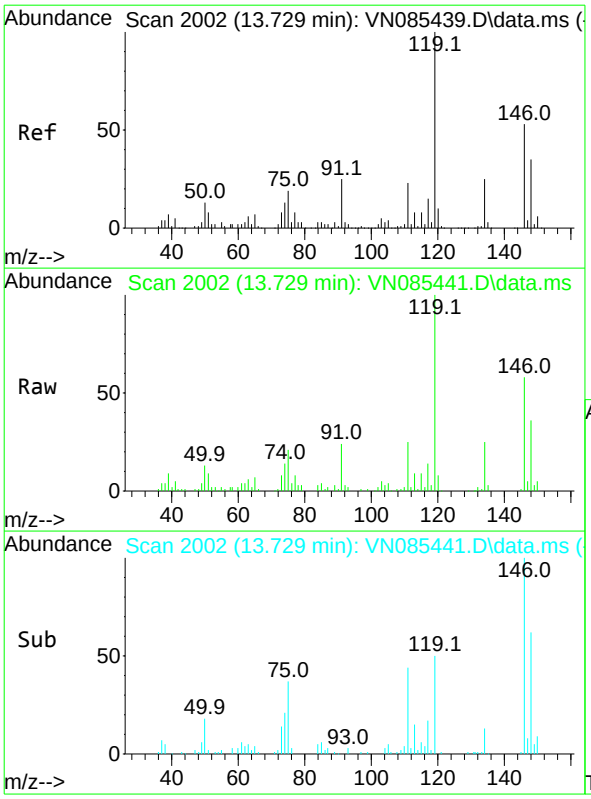


#86
p-Isopropyltoluene
Concen: 9.674 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:119 Resp: 67556

Ion	Ratio	Lower	Upper
119	100		
134	25.2	12.7	38.0
91	25.0	12.7	38.1

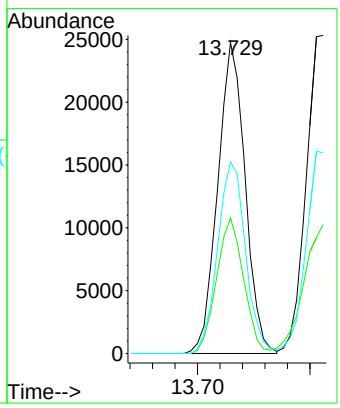




#87
1,3-Dichlorobenzene
Concen: 9.693 ug/l
RT: 13.729 min Scan# 20
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:146 Resp: 41843

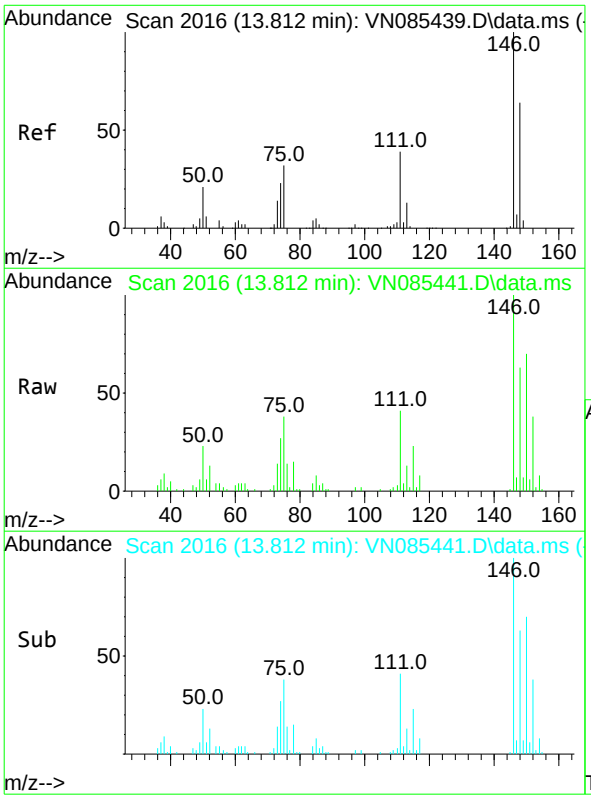
Ion	Ratio	Lower	Upper
146	100		
111	43.1	21.4	64.3
148	63.0	32.3	96.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

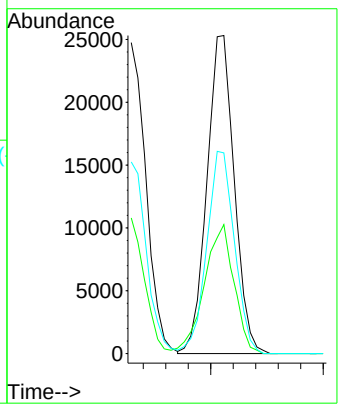
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

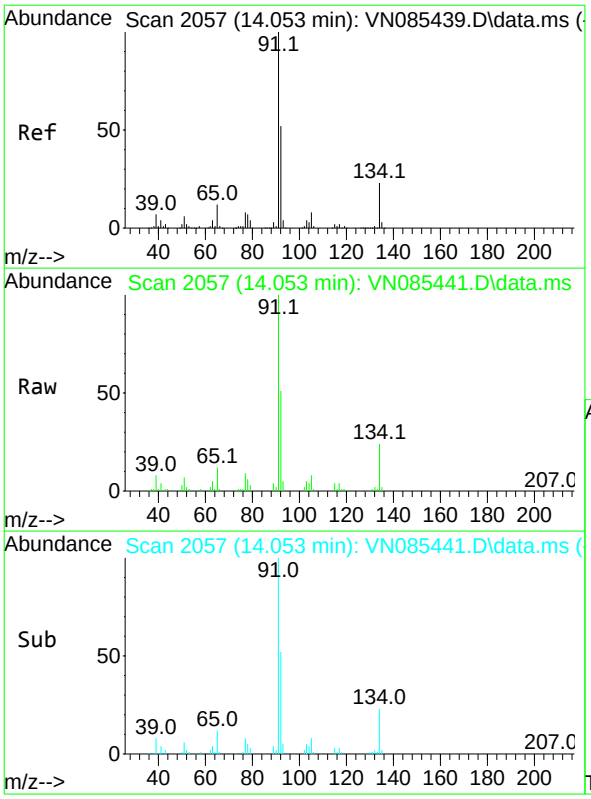


#88
1,4-Dichlorobenzene
Concen: 9.549 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:146 Resp: 42728

Ion	Ratio	Lower	Upper
146	100		
111	44.0	21.3	63.7
148	64.6	32.4	97.0

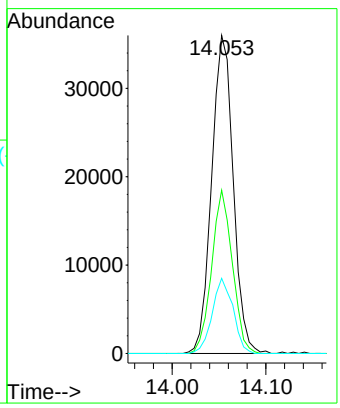




#89
n-Butylbenzene
Concen: 9.314 ug/l
RT: 14.053 min Scan# 20
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 91 Resp: 57632

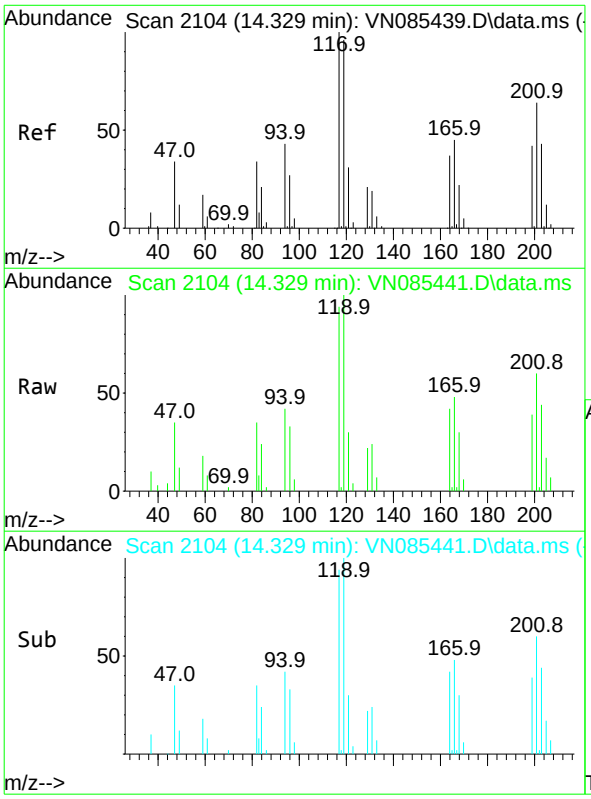
Ion	Ratio	Lower	Upper
91	100		
92	49.2	25.8	77.3
134	22.8	11.7	35.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

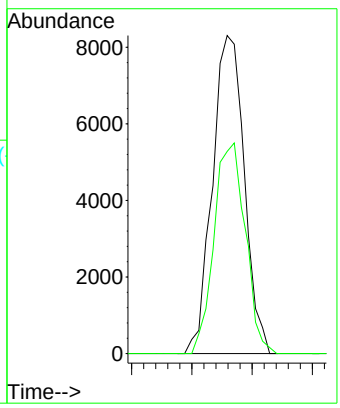
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

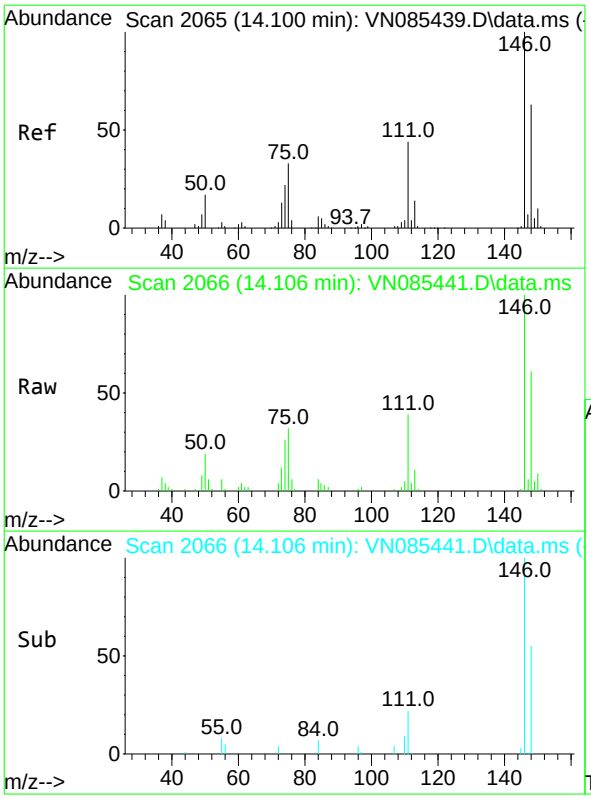


#90
Hexachloroethane
Concen: 9.294 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:117 Resp: 15261

Ion	Ratio	Lower	Upper
117	100		
201	65.0	33.7	101.0

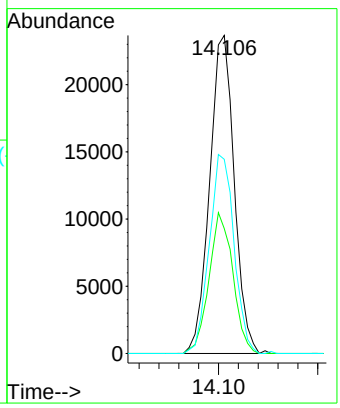




#91
1,2-Dichlorobenzene
Concen: 9.458 ug/l
RT: 14.106 min Scan# 20
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:146 Resp: 40726

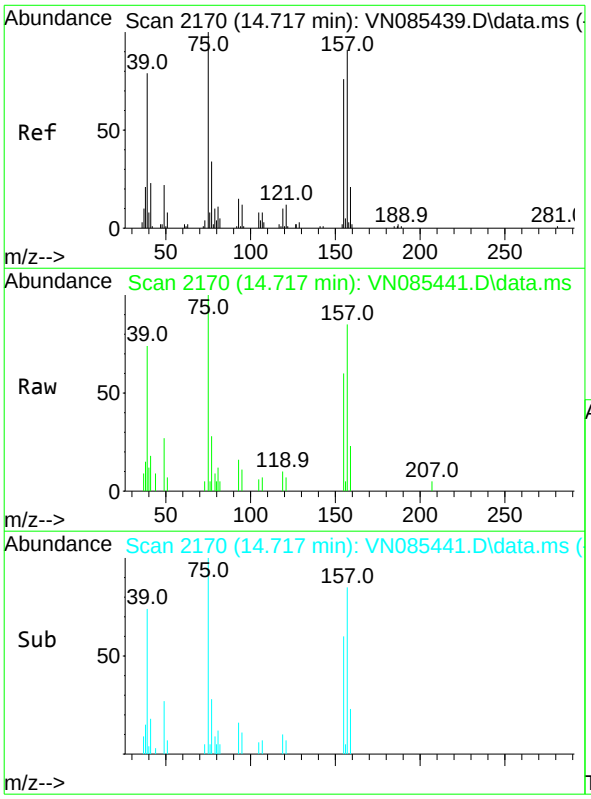
Ion	Ratio	Lower	Upper
146	100		
111	42.9	21.7	65.1
148	62.9	31.4	94.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

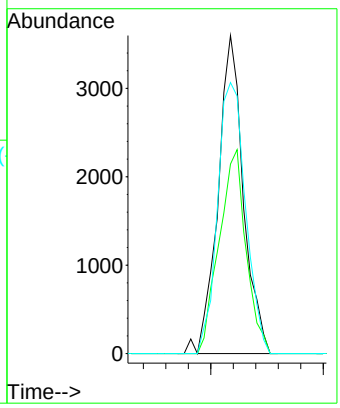
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

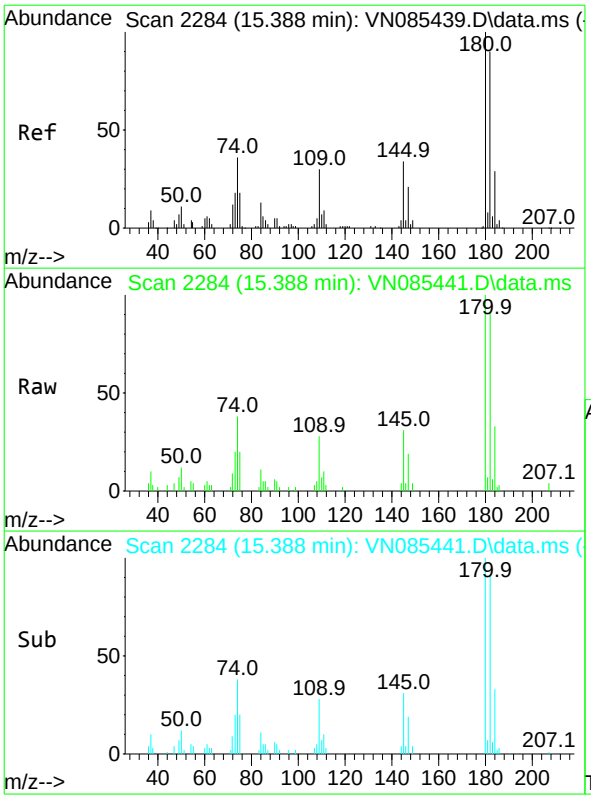


#92
1,2-Dibromo-3-Chloropropane
Concen: 9.744 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 75 Resp: 5639

Ion	Ratio	Lower	Upper
75	100		
155	67.9	36.4	109.2
157	94.1	45.4	136.1

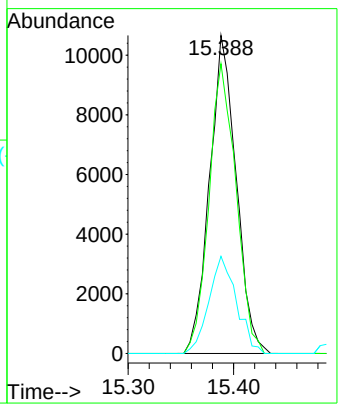




#93
1,2,4-Trichlorobenzene
Concen: 9.354 ug/l
RT: 15.388 min Scan# 22
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:180 Resp: 18720

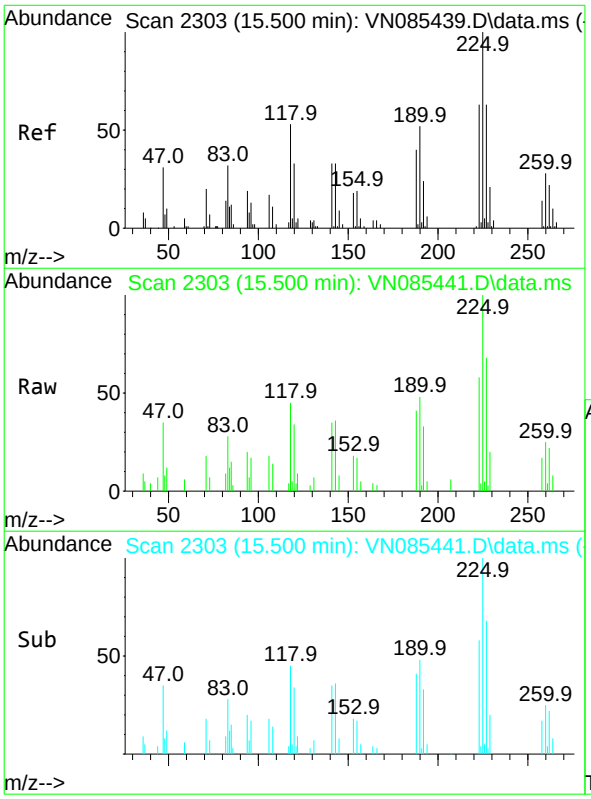
Ion	Ratio	Lower	Upper
180	100		
182	92.4	46.8	140.3
145	31.7	16.0	48.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

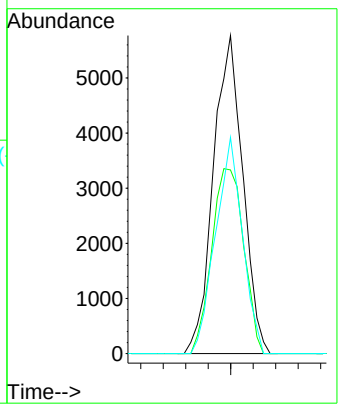
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

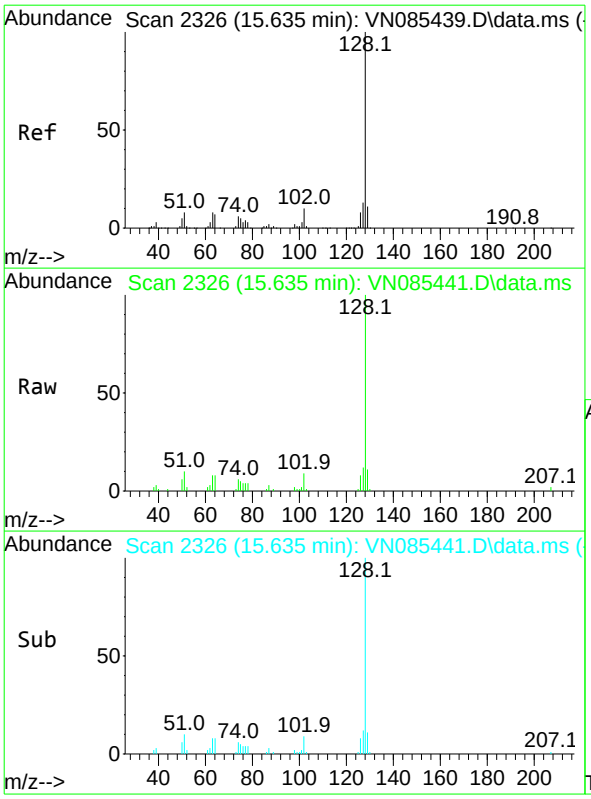


#94
Hexachlorobutadiene
Concen: 9.874 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:225 Resp: 10491

Ion	Ratio	Lower	Upper
225	100		
223	63.3	30.7	92.1
227	62.1	30.9	92.5

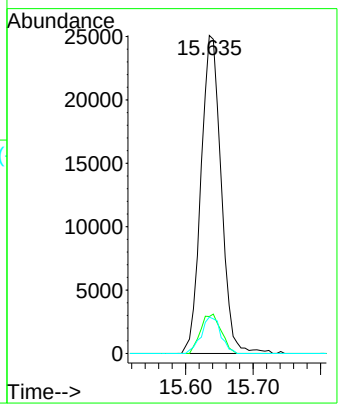




#95
Naphthalene
Concen: 8.717 ug/l
RT: 15.635 min Scan# 23
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:128 Resp: 52054

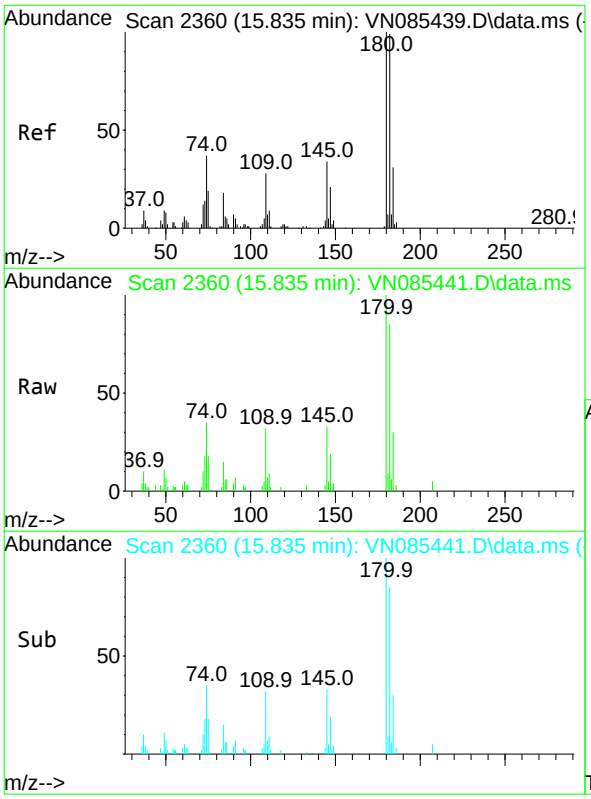
Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.6	16.0
129	11.2	8.8	13.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

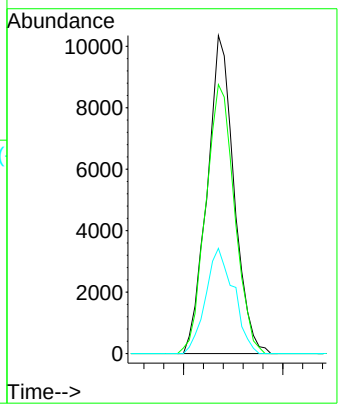
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#96
1,2,3-Trichlorobenzene
Concen: 9.605 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:180 Resp: 19450

Ion	Ratio	Lower	Upper
180	100		
182	90.3	47.4	142.2
145	34.7	16.9	50.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085442.D
Acq On : 14 Jan 2025 16:31
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 15 01:45:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	8.218	168	186556	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	9.100	114	324413	50.000	ug/l		0.00
63) Chlorobenzene-d5	11.865	117	282203	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	126086	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	8.577	65	17046	5.660	ug/l		0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 11.320%#				
35) Dibromofluoromethane	8.165	113	12102	5.377	ug/l		0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 10.760%#				
50) Toluene-d8	10.565	98	41328	5.168	ug/l		0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 10.340%#				
62) 4-Bromofluorobenzene	12.847	95	13520	4.943	ug/l		0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 9.880%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	2.124	85	13199	5.225	ug/l		97
3) Chloromethane	2.359	50	14526	5.311	ug/l		96
4) Vinyl Chloride	2.512	62	14564	5.298	ug/l		98
5) Bromomethane	2.953	94	9788	5.895	ug/l		98
6) Chloroethane	3.124	64	9430	5.411	ug/l		99
7) Trichlorofluoromethane	3.501	101	20098	5.039	ug/l		92
8) Diethyl Ether	3.959	74	6652	4.828	ug/l		100
9) 1,1,2-Trichlorotrifluo...	4.365	101	11917	5.305	ug/l		97
10) Methyl Iodide	4.583	142	12331	4.793	ug/l		99
11) Tert butyl alcohol	5.518	59	9075	26.318	ug/l	#	94
12) 1,1-Dichloroethene	4.342	96	10429	5.209	ug/l		96
13) Acrolein	4.171	56	9430	20.033	ug/l		97
14) Allyl chloride	5.030	41	16741	5.153	ug/l		97
15) Acrylonitrile	5.718	53	27869	25.445	ug/l		97
16) Acetone	4.430	43	25122	25.819	ug/l		97
17) Carbon Disulfide	4.706	76	32068	5.202	ug/l		96
18) Methyl Acetate	5.024	43	15106	5.106	ug/l		97
19) Methyl tert-butyl Ether	5.800	73	31439	4.836	ug/l		94
20) Methylene Chloride	5.271	84	12981	5.389	ug/l	#	83
21) trans-1,2-Dichloroethene	5.783	96	10614	4.960	ug/l	#	78
22) Diisopropyl ether	6.665	45	35785	4.962	ug/l	#	96
23) Vinyl Acetate	6.600	43	118439m	23.389	ug/l		
24) 1,1-Dichloroethane	6.565	63	22865	5.200	ug/l		99
25) 2-Butanone	7.483	43	36127	25.231	ug/l		99
26) 2,2-Dichloropropane	7.488	77	18398	5.175	ug/l		100
27) cis-1,2-Dichloroethene	7.488	96	12477	4.951	ug/l		99
28) Bromochloromethane	7.806	49	11096	5.424	ug/l		99
29) Tetrahydrofuran	7.841	42	21983	24.215	ug/l		99
30) Chloroform	7.959	83	23384	5.146	ug/l		98
31) Cyclohexane	8.247	56	22343	5.846	ug/l	#	92
32) 1,1,1-Trichloroethane	8.159	97	21416	5.372	ug/l		91
36) 1,1-Dichloropropene	8.371	75	15886	5.029	ug/l		96
37) Ethyl Acetate	7.553	43	16879m	5.294	ug/l		
38) Carbon Tetrachloride	8.359	117	18317	5.065	ug/l		96
39) Methylcyclohexane	9.600	83	14175	4.776	ug/l		98
40) Benzene	8.600	78	47833	5.040	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085442.D
Acq On : 14 Jan 2025 16:31
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 15 01:45:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	7.777	41	7380	4.449 ug/l	96
42) 1,2-Dichloroethane	8.671	62	18628	5.211 ug/l	98
43) Isopropyl Acetate	8.688	43	24792	4.853 ug/l	98
44) Trichloroethene	9.347	130	11133	5.039 ug/l	86
45) 1,2-Dichloropropane	9.618	63	12591	5.194 ug/l	92
46) Dibromomethane	9.700	93	8230	4.705 ug/l	91
47) Bromodichloromethane	9.888	83	18456	5.179 ug/l #	96
48) Methyl methacrylate	9.677	41	10574	4.599 ug/l	95
49) 1,4-Dioxane	9.694	88	3619	93.477 ug/l	97
51) 4-Methyl-2-Pentanone	10.441	43	71889	24.250 ug/l	98
52) Toluene	10.629	92	27098	4.928 ug/l	98
53) t-1,3-Dichloropropene	10.829	75	17099	5.077 ug/l	95
54) cis-1,3-Dichloropropene	10.306	75	17440	4.848 ug/l	97
55) 1,1,2-Trichloroethane	11.012	97	11311	5.197 ug/l	96
56) Ethyl methacrylate	10.871	69	14094	5.627 ug/l	94
57) 1,3-Dichloropropane	11.159	76	18945	5.006 ug/l	100
58) 2-Chloroethyl Vinyl ether	10.159	63	33210	24.047 ug/l	97
59) 2-Hexanone	11.194	43	49021	23.501 ug/l	94
60) Dibromochloromethane	11.353	129	13635	5.190 ug/l	96
61) 1,2-Dibromoethane	11.471	107	10419	4.810 ug/l	98
64) Tetrachloroethene	11.100	164	9756	5.071 ug/l	91
65) Chlorobenzene	11.888	112	31312	5.065 ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.959	131	11620	5.121 ug/l	98
67) Ethyl Benzene	11.965	91	48216	4.789 ug/l	98
68) m/p-Xylenes	12.065	106	34771	9.344 ug/l	99
69) o-Xylene	12.394	106	16419	4.617 ug/l	98
70) Styrene	12.412	104	26218	4.454 ug/l	99
71) Bromoform	12.576	173	8017	4.938 ug/l #	99
73) Isopropylbenzene	12.694	105	39811	4.678 ug/l	99
74) N-amyl acetate	12.488	43	17577	4.595 ug/l	95
75) 1,1,2,2-Tetrachloroethane	12.935	83	15483	5.151 ug/l	97
76) 1,2,3-Trichloropropane	12.994	75	12173m	4.758 ug/l	
77) Bromobenzene	12.982	156	11091	4.989 ug/l	99
78) n-propylbenzene	13.035	91	45450	4.512 ug/l	99
79) 2-Chlorotoluene	13.123	91	31932	4.898 ug/l	98
80) 1,3,5-Trimethylbenzene	13.170	105	31891	4.537 ug/l	100
81) trans-1,4-Dichloro-2-b...	12.729	75	4229	4.465 ug/l	90
82) 4-Chlorotoluene	13.218	91	31976	4.926 ug/l	100
83) tert-Butylbenzene	13.435	119	27597	4.675 ug/l	99
84) 1,2,4-Trimethylbenzene	13.482	105	32054	4.575 ug/l	98
85) sec-Butylbenzene	13.612	105	38148	4.663 ug/l	98
86) p-Isopropyltoluene	13.723	119	29856	4.584 ug/l	98
87) 1,3-Dichlorobenzene	13.729	146	20876	5.099 ug/l	98
88) 1,4-Dichlorobenzene	13.812	146	21982	5.179 ug/l	97
89) n-Butylbenzene	14.053	91	27437	4.675 ug/l	96
90) Hexachloroethane	14.329	117	7767	4.987 ug/l	100
91) 1,2-Dichlorobenzene	14.106	146	20177	4.940 ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.729	75	2872	5.232 ug/l	90
93) 1,2,4-Trichlorobenzene	15.388	180	9037	4.761 ug/l	94
94) Hexachlorobutadiene	15.500	225	5563	5.520 ug/l	98
95) Naphthalene	15.641	128	25047	4.422 ug/l	96
96) 1,2,3-Trichlorobenzene	15.841	180	8737	4.549 ug/l	99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085442.D
Acq On : 14 Jan 2025 16:31
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 15 01:45:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration

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

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

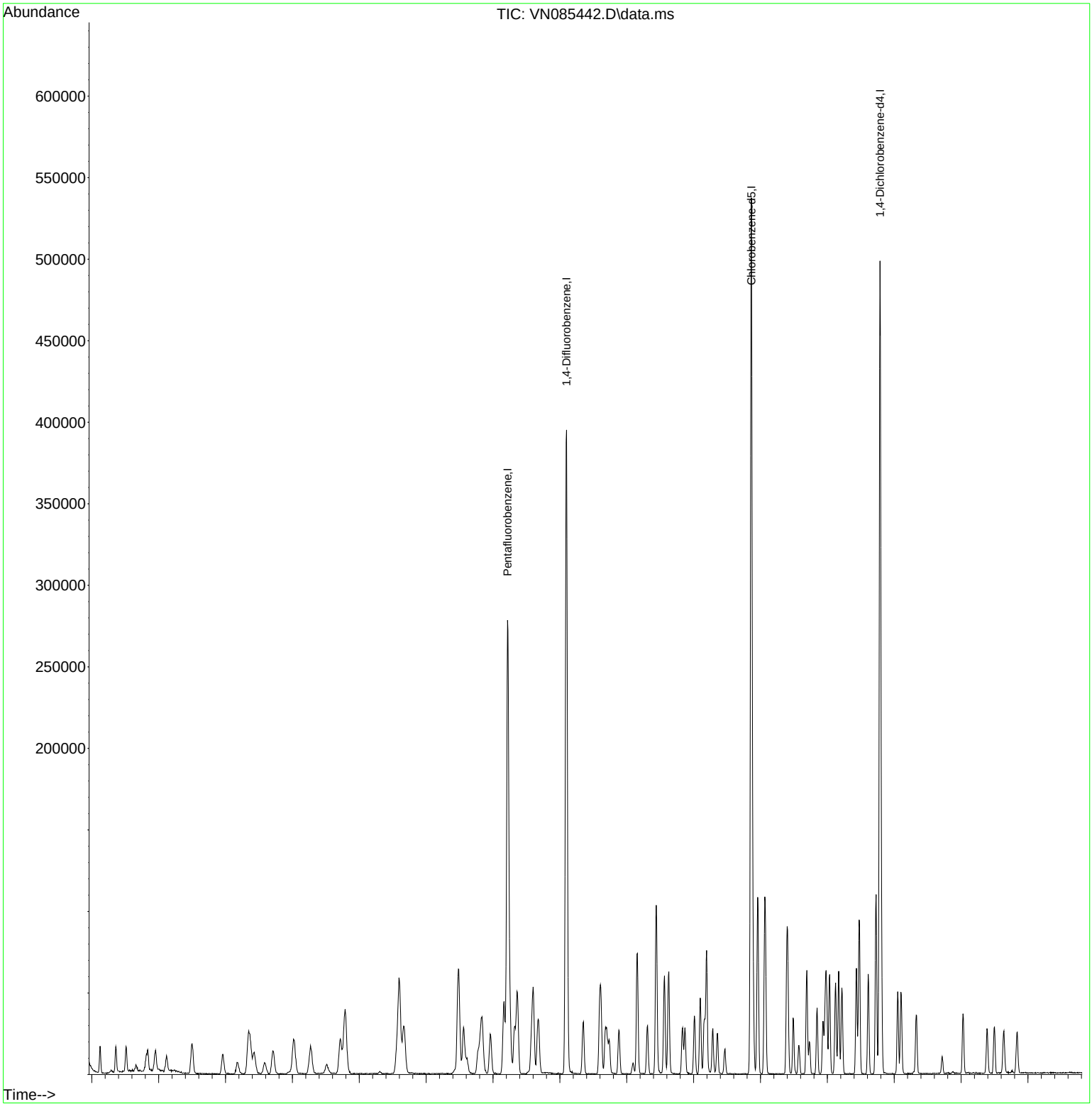
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085442.D
Acq On : 14 Jan 2025 16:31
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

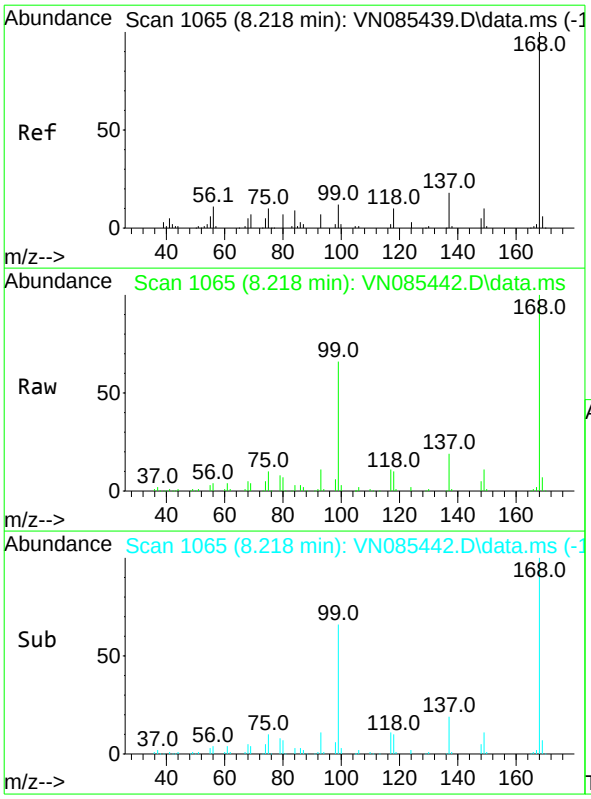
Quant Time: Jan 15 01:45:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

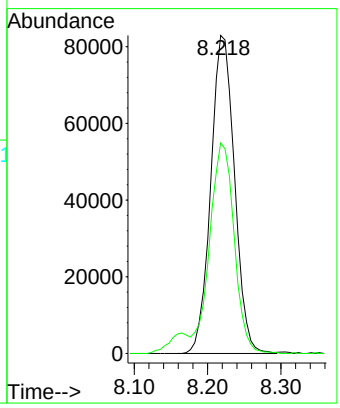




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion:168 Resp: 186556

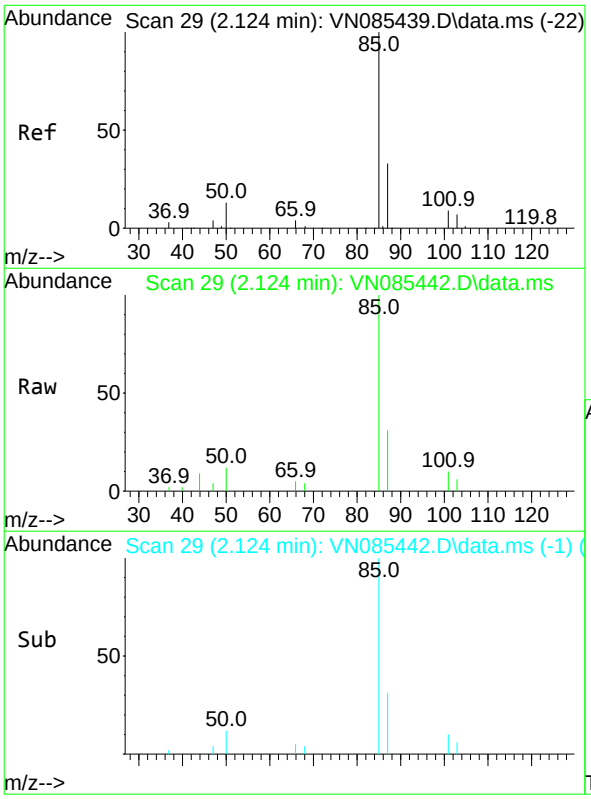
Ion	Ratio	Lower	Upper
168	100		
99	65.9	53.6	80.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

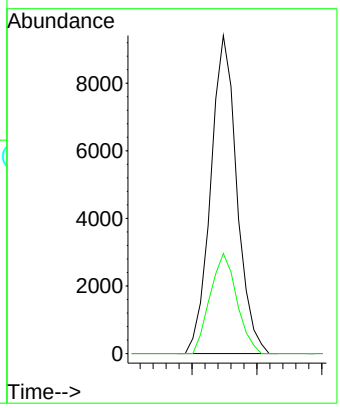
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

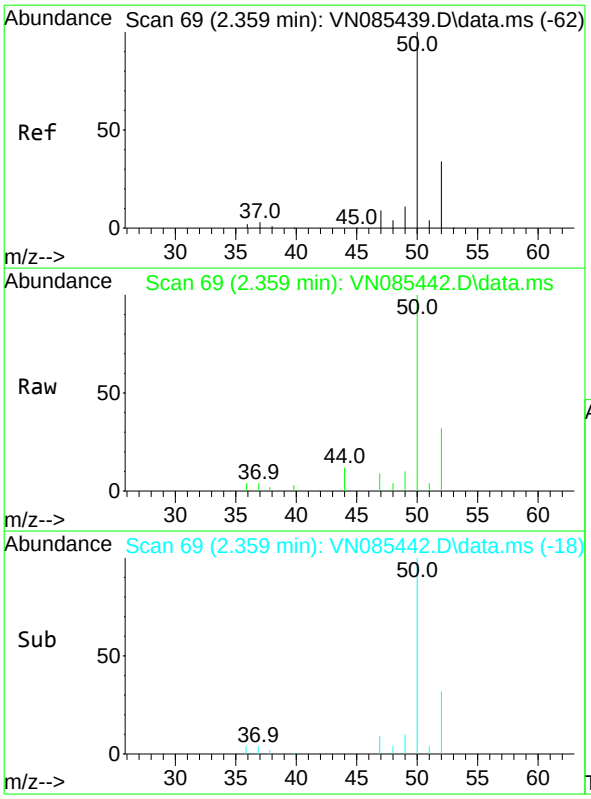


#2
Dichlorodifluoromethane
Concen: 5.225 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 85 Resp: 13199

Ion	Ratio	Lower	Upper
85	100		
87	31.5	16.7	50.1

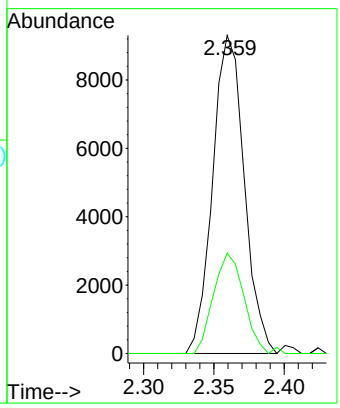




#3
Chloromethane
Concen: 5.311 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 50 Resp: 14526

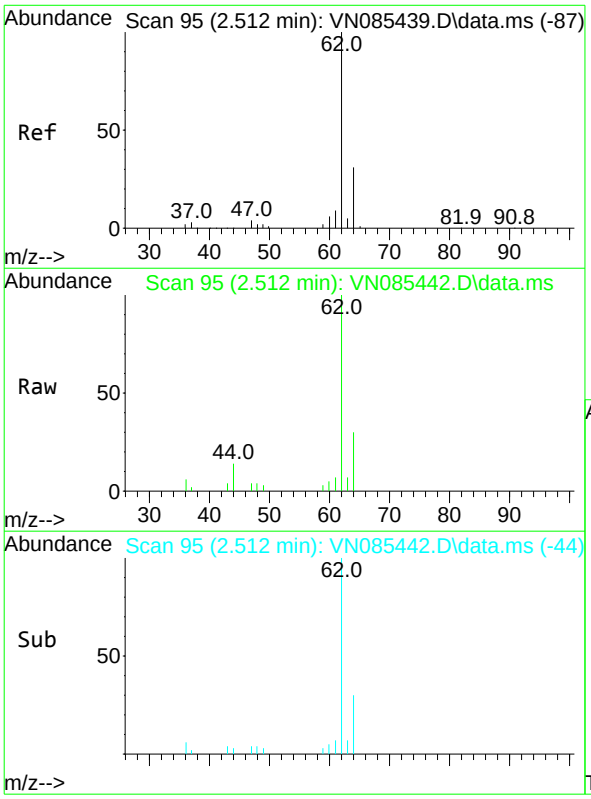
Ion	Ratio	Lower	Upper
50	100		
52	31.6	27.0	40.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

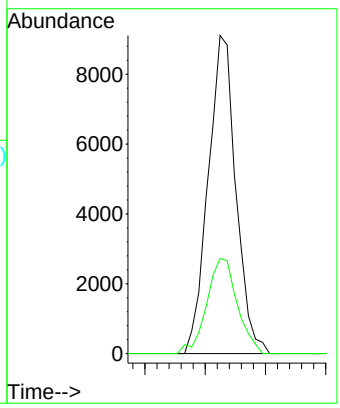
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

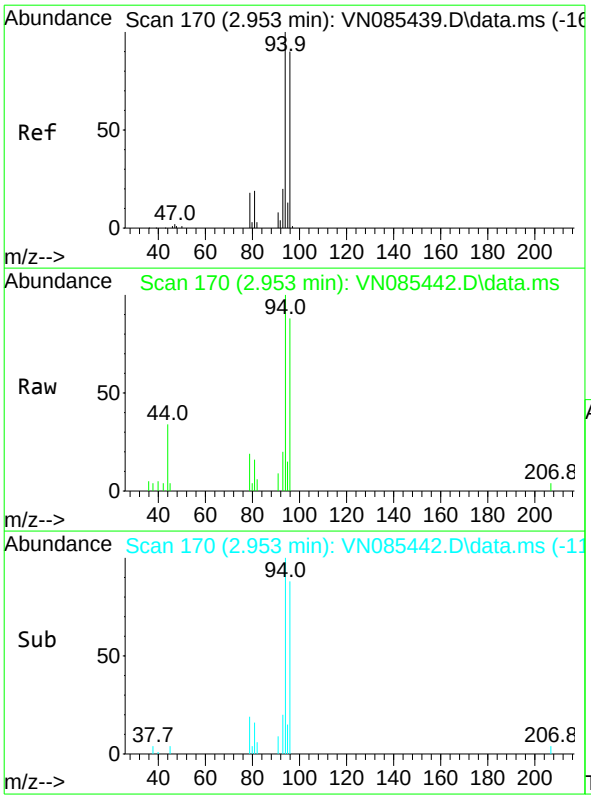


#4
Vinyl Chloride
Concen: 5.298 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 62 Resp: 14564

Ion	Ratio	Lower	Upper
62	100		
64	29.9	24.8	37.2

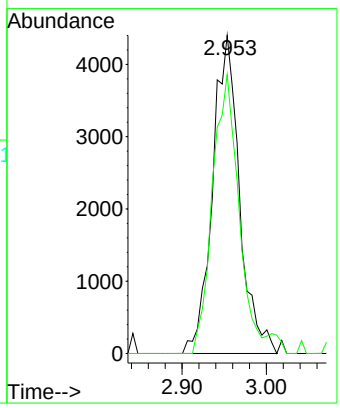




#5
Bromomethane
Concen: 5.895 ug/l
RT: 2.953 min Scan# 17
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 94 Resp: 9788

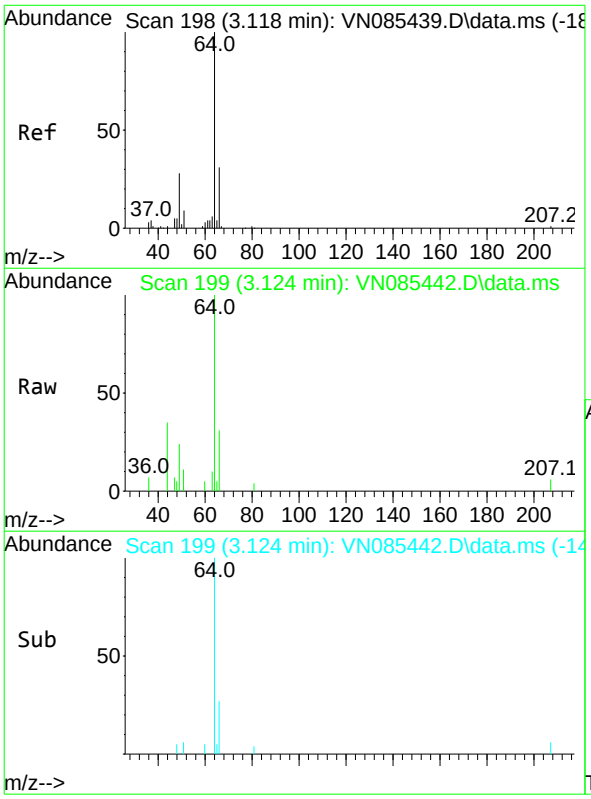
Ion	Ratio	Lower	Upper
94	100		
96	87.7	71.8	107.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

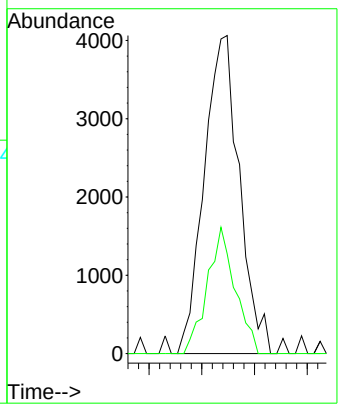
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

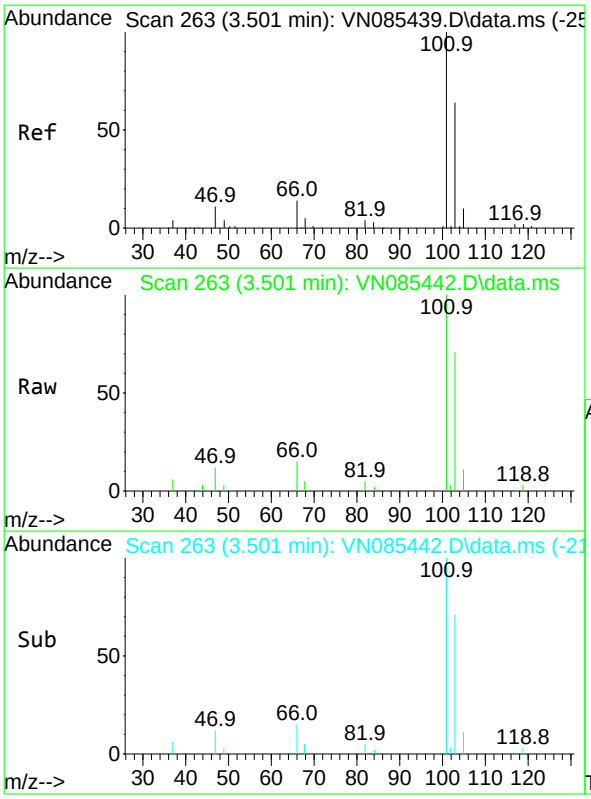


#6
Chloroethane
Concen: 5.411 ug/l
RT: 3.124 min Scan# 199
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 64 Resp: 9430

Ion	Ratio	Lower	Upper
64	100		
66	31.4	24.6	36.8

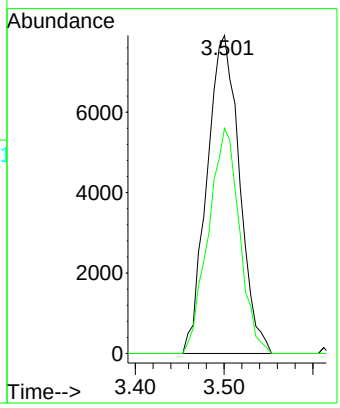




#7
Trichlorofluoromethane
Concen: 5.039 ug/l
RT: 3.501 min Scan# 26
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion:101 Resp: 20098

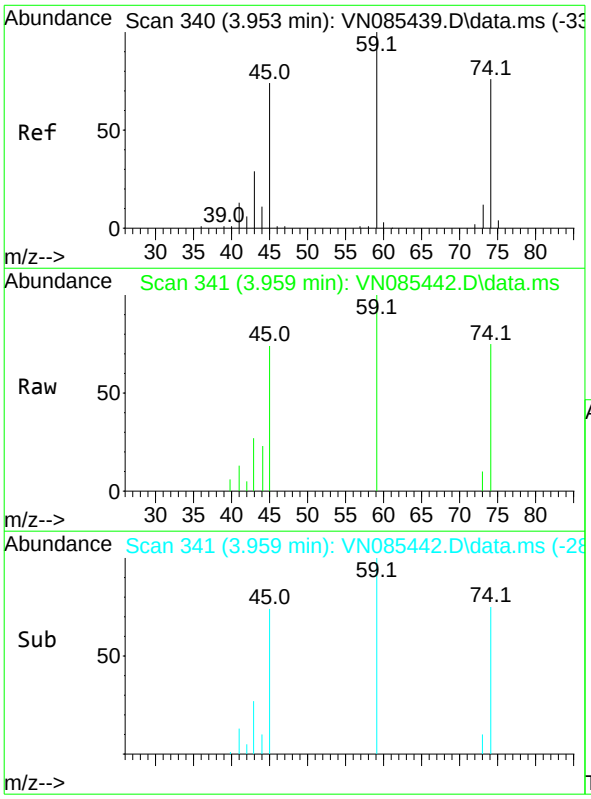
Ion	Ratio	Lower	Upper
101	100		
103	70.8	51.4	77.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

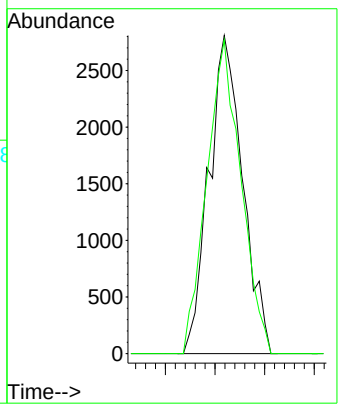
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

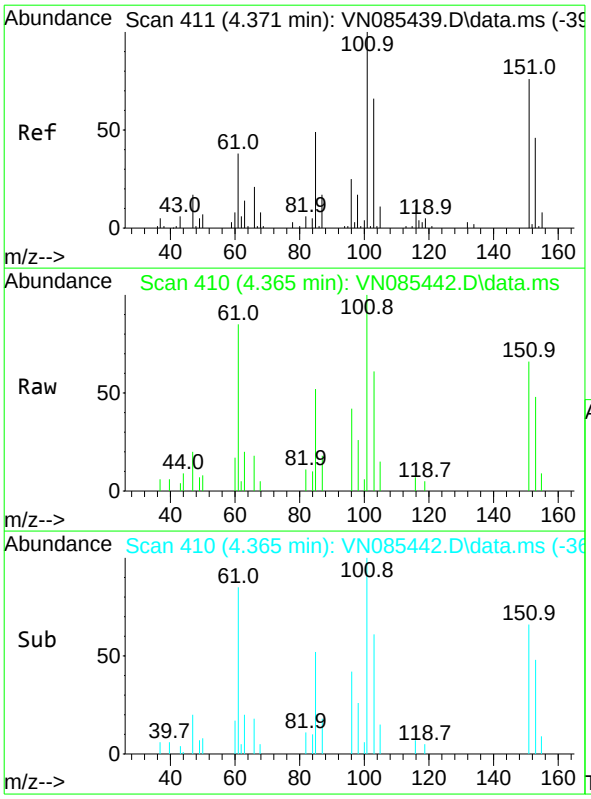


#8
Diethyl Ether
Concen: 4.828 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 74 Resp: 6652

Ion	Ratio	Lower	Upper
74	100		
45	99.5	49.7	149.1





#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.305 ug/l
RT: 4.365 min Scan# 41
Delta R.T. -0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

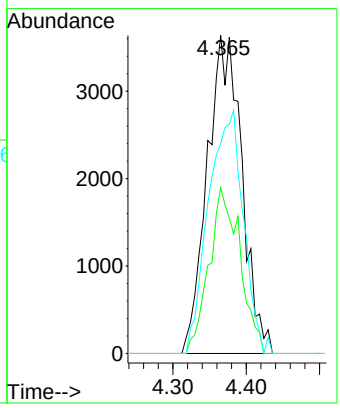
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

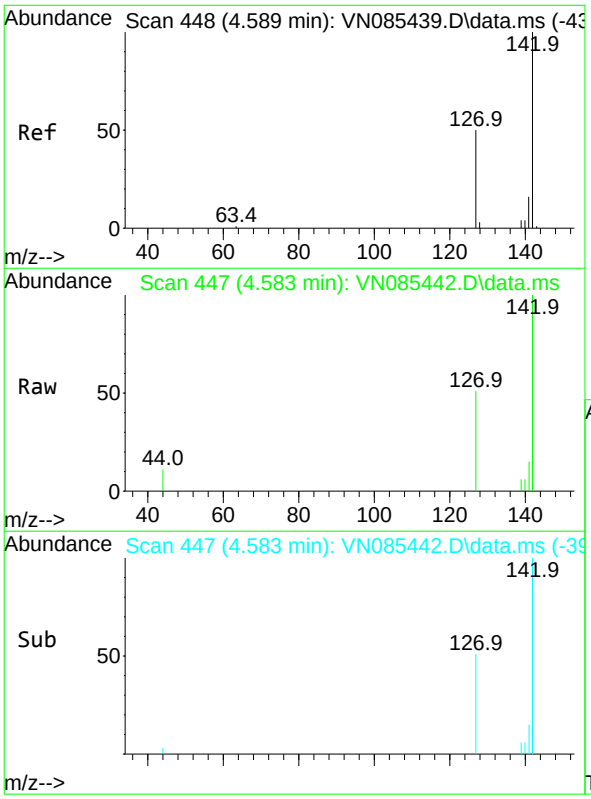
Tgt Ion:101 Resp: 11917

Ion	Ratio	Lower	Upper
101	100		
85	46.5	37.8	56.8
151	76.7	58.8	88.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

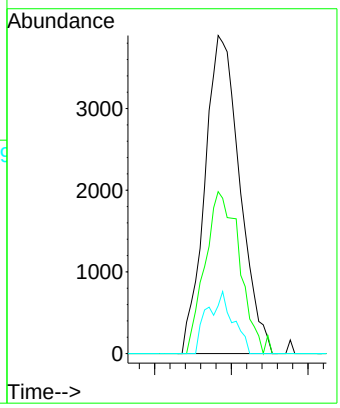


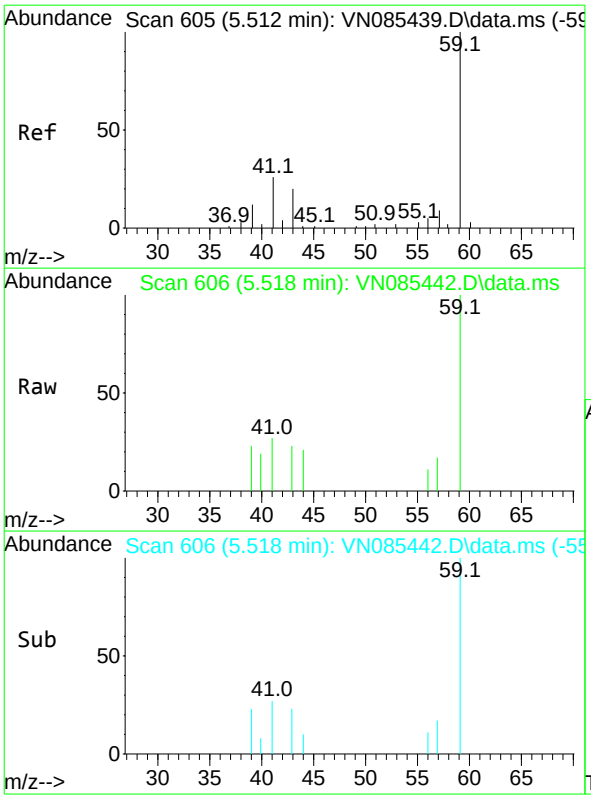


#10
Methyl Iodide
Concen: 4.793 ug/l
RT: 4.583 min Scan# 447
Delta R.T. -0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion:142 Resp: 12331

Ion	Ratio	Lower	Upper
142	100		
127	50.9	40.3	60.5
141	15.0	12.8	19.2

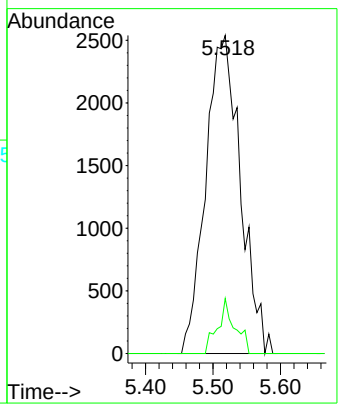




#11
Tert butyl alcohol
Concen: 26.318 ug/l
RT: 5.518 min Scan# 60
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 59 Resp: 9075

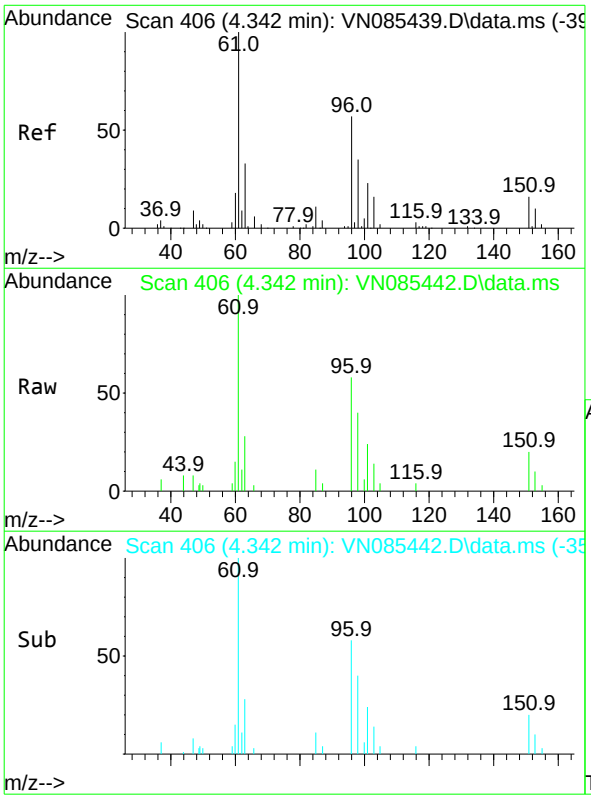
Ion	Ratio	Lower	Upper
59	100		
57	8.5	8.6	13.0#



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

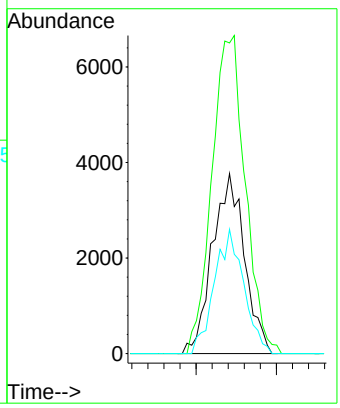
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

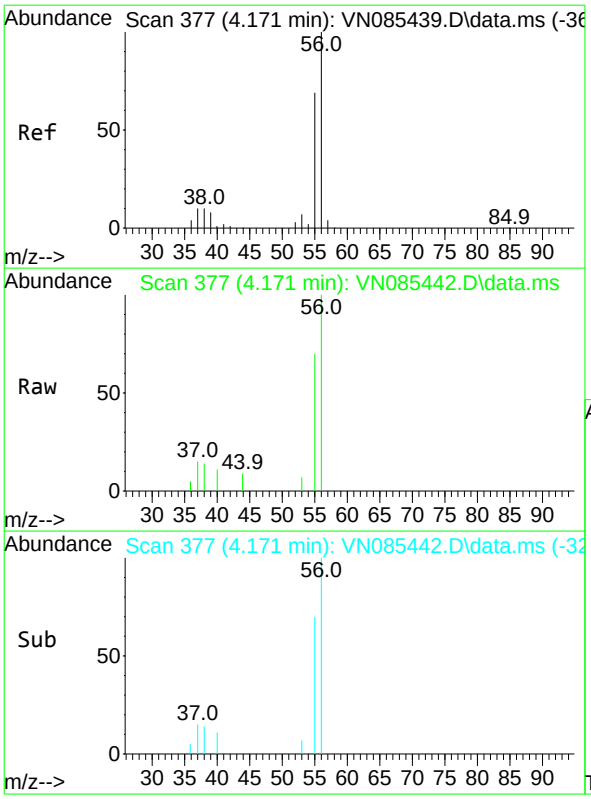


#12
1,1-Dichloroethene
Concen: 5.209 ug/l
RT: 4.342 min Scan# 406
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 96 Resp: 10429

Ion	Ratio	Lower	Upper
96	100		
61	172.7	141.0	211.4
98	69.0	49.0	73.6

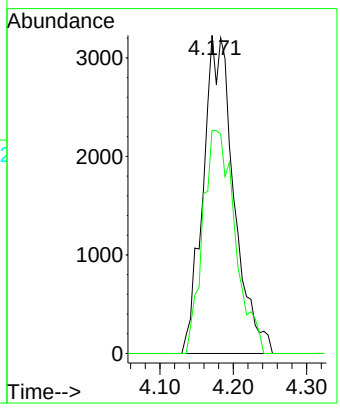




#13
Acrolein
Concen: 20.033 ug/l
RT: 4.171 min Scan# 37
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 56 Resp: 9430

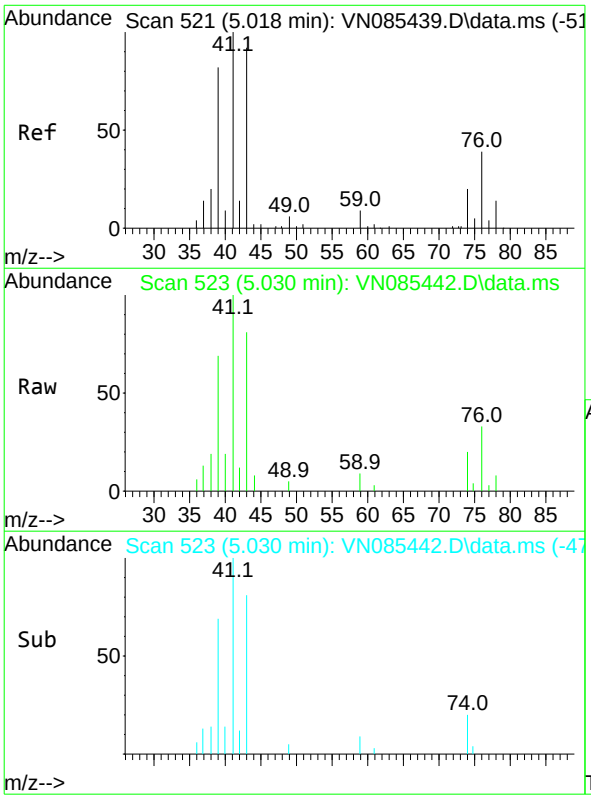
Ion	Ratio	Lower	Upper
56	100		
55	73.2	56.3	84.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

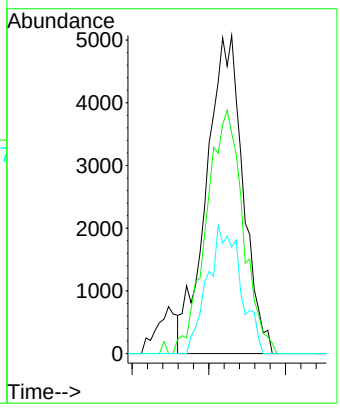
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

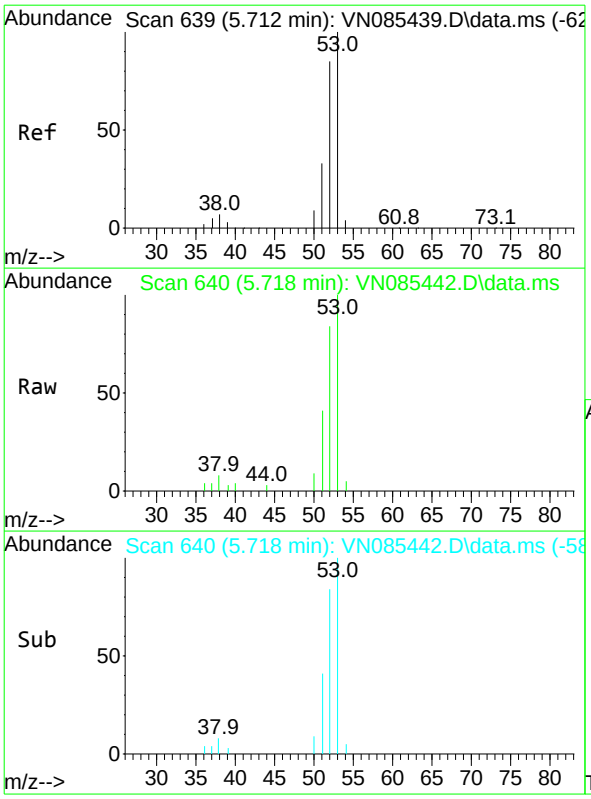


#14
Allyl chloride
Concen: 5.153 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.012 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 41 Resp: 16741

Ion	Ratio	Lower	Upper
41	100		
39	77.4	64.4	96.6
76	36.6	30.5	45.7

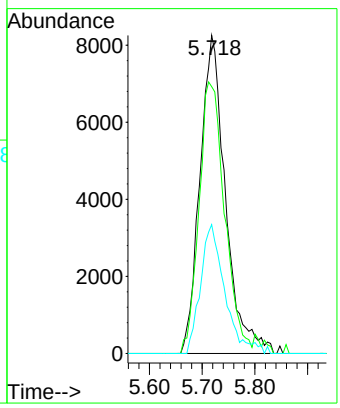




#15
Acrylonitrile
Concen: 25.445 ug/l
RT: 5.718 min Scan# 64
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 53 Resp: 27869

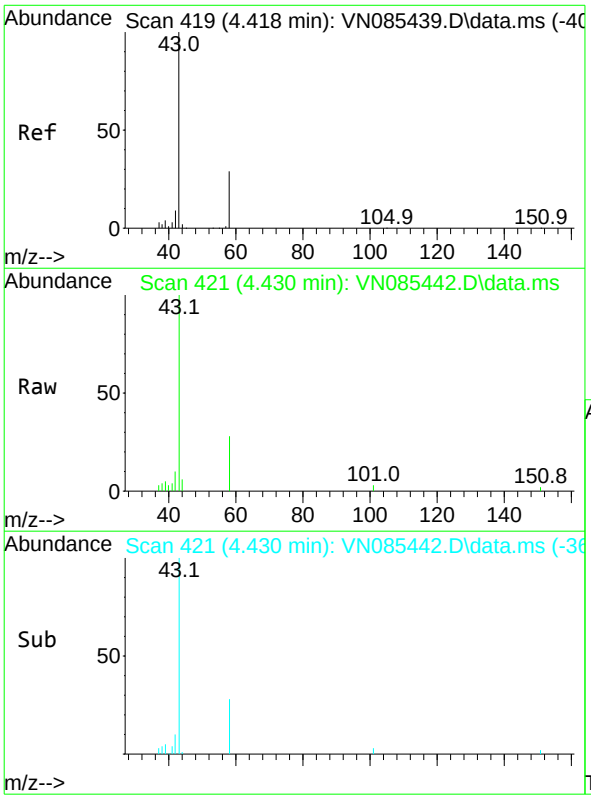
Ion	Ratio	Lower	Upper
53	100		
52	85.5	65.5	98.3
51	38.5	29.8	44.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

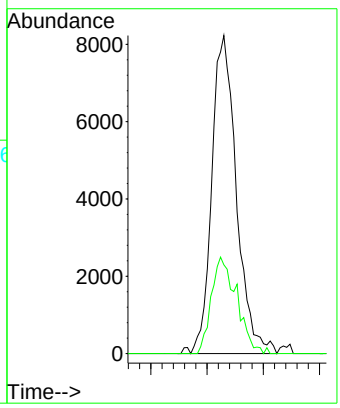
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

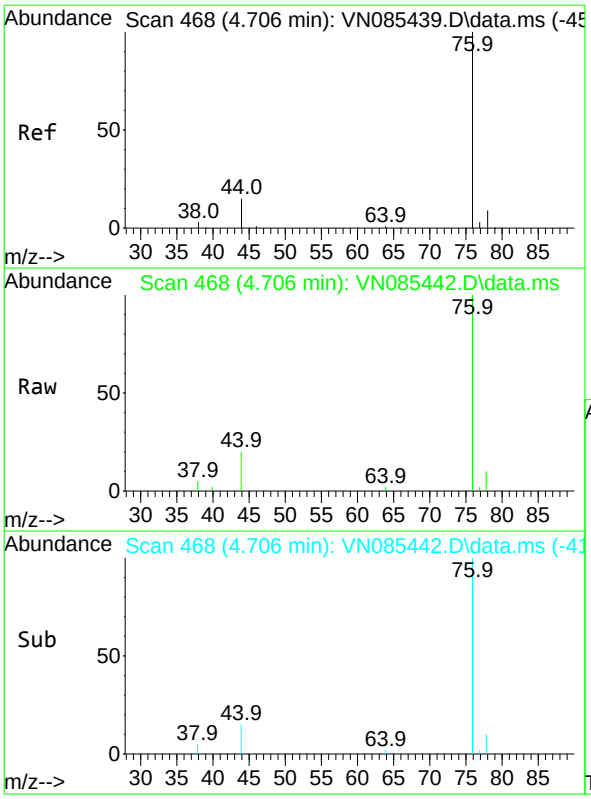


#16
Acetone
Concen: 25.819 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.012 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 43 Resp: 25122

Ion	Ratio	Lower	Upper
43	100		
58	27.9	23.8	35.6

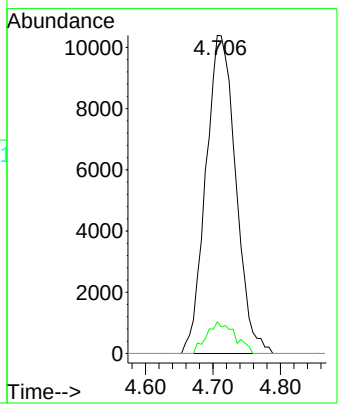




#17
Carbon Disulfide
Concen: 5.202 ug/l
RT: 4.706 min Scan# 46
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 76 Resp: 32068

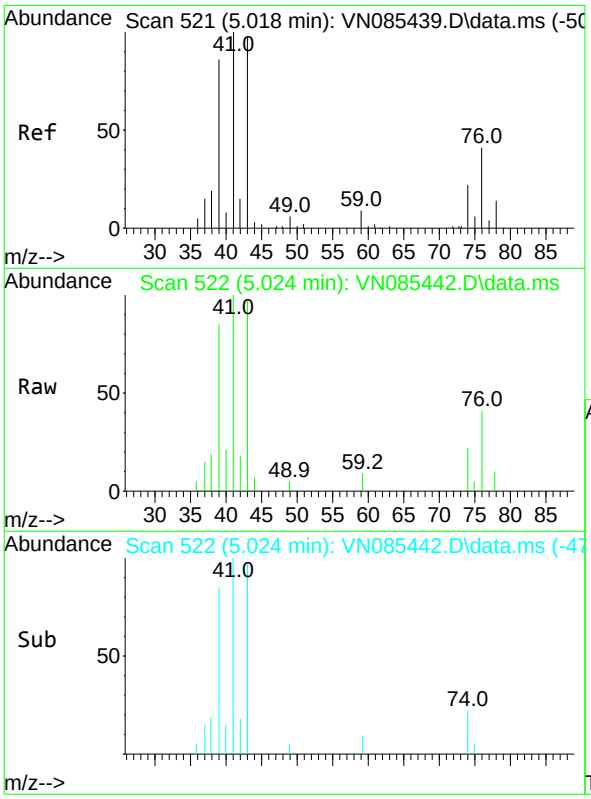
Ion	Ratio	Lower	Upper
76	100		
78	9.9	6.9	10.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

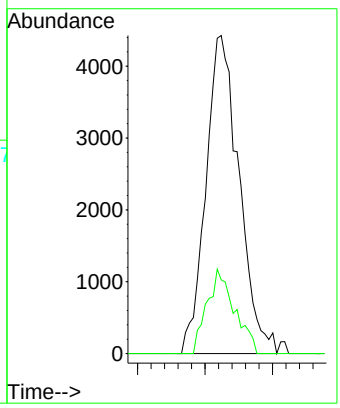
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

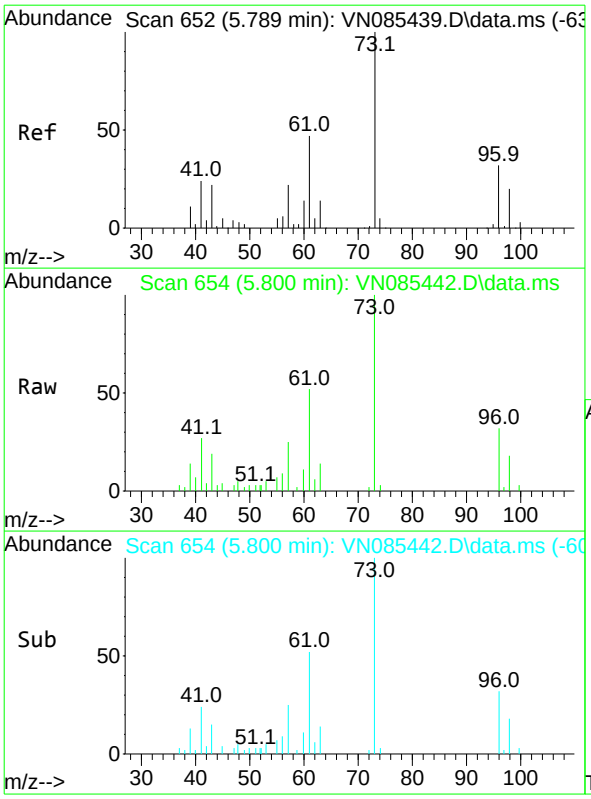


#18
Methyl Acetate
Concen: 5.106 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 43 Resp: 15106

Ion	Ratio	Lower	Upper
43	100		
74	22.0	18.6	28.0

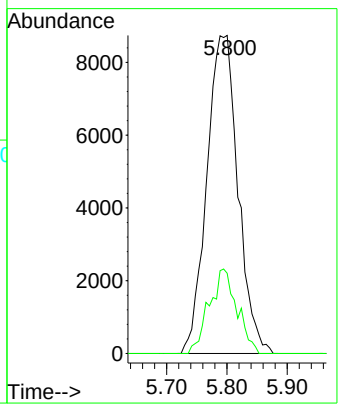




#19
Methyl tert-butyl Ether
Concen: 4.836 ug/l
RT: 5.800 min Scan# 65
Delta R.T. 0.012 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 73 Resp: 31439

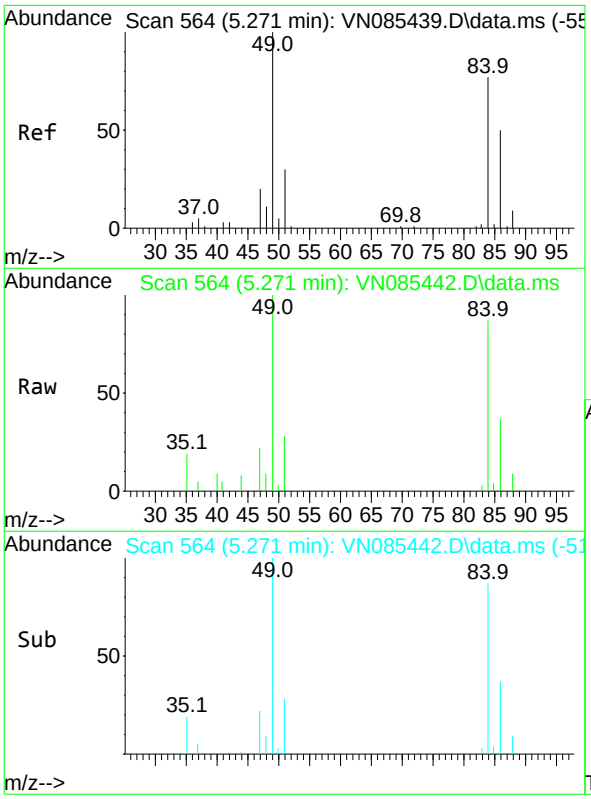
Ion	Ratio	Lower	Upper
73	100		
57	25.2	17.8	26.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

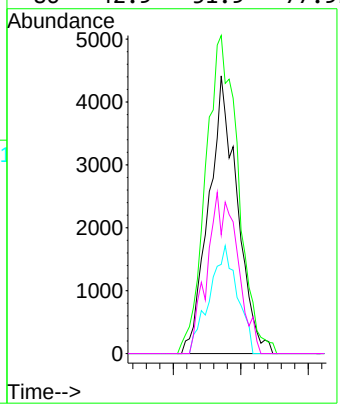
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

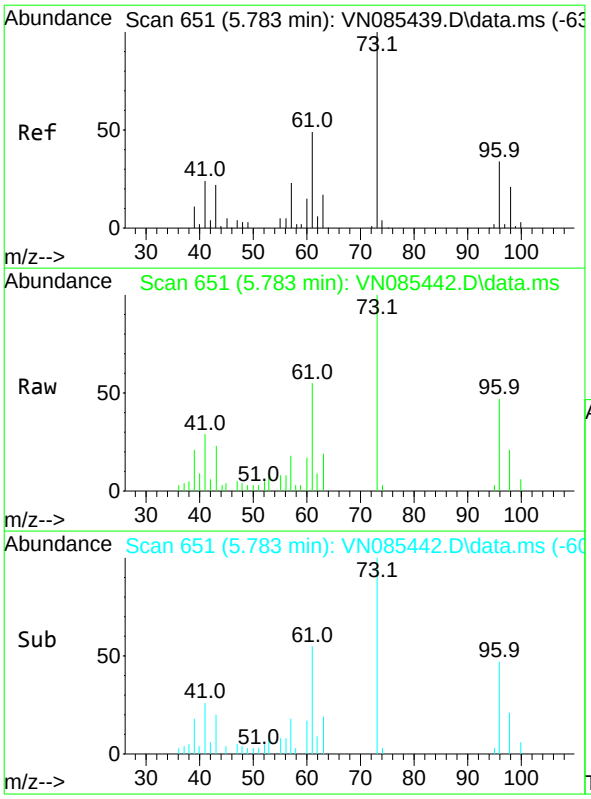


#20
Methylene Chloride
Concen: 5.389 ug/l
RT: 5.271 min Scan# 564
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 84 Resp: 12981

Ion	Ratio	Lower	Upper
84	100		
49	114.5	104.1	156.1
51	32.1	31.0	46.4
86	42.9	51.9	77.9#

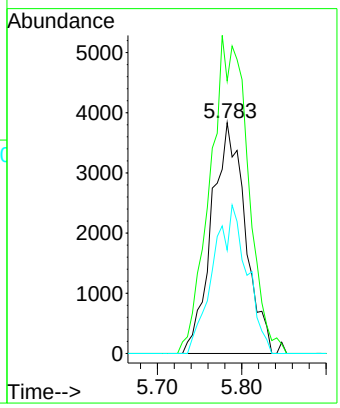




#21
trans-1,2-Dichloroethene
Concen: 4.960 ug/l
RT: 5.783 min Scan# 65
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 96 Resp: 10614

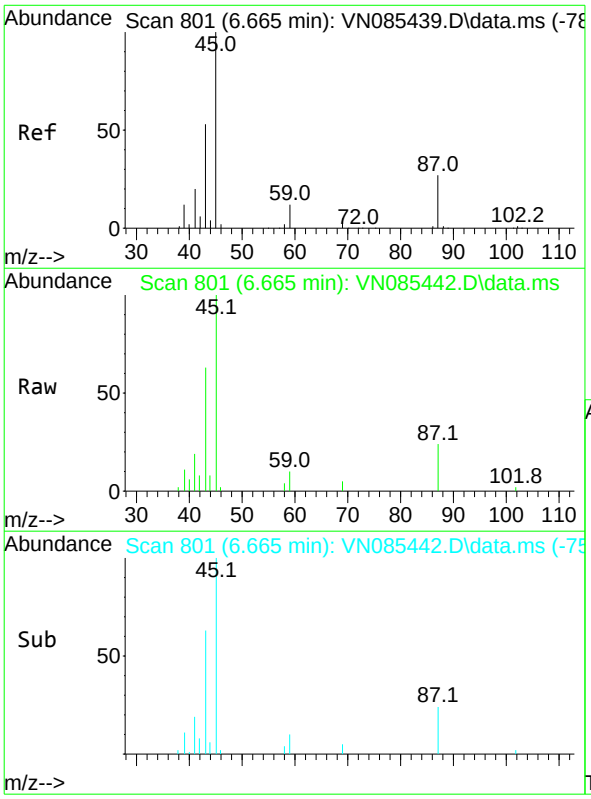
Ion	Ratio	Lower	Upper
96	100		
61	118.1	115.7	173.5
98	44.7	49.8	74.8#



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

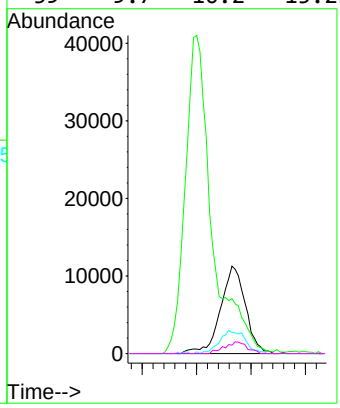
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

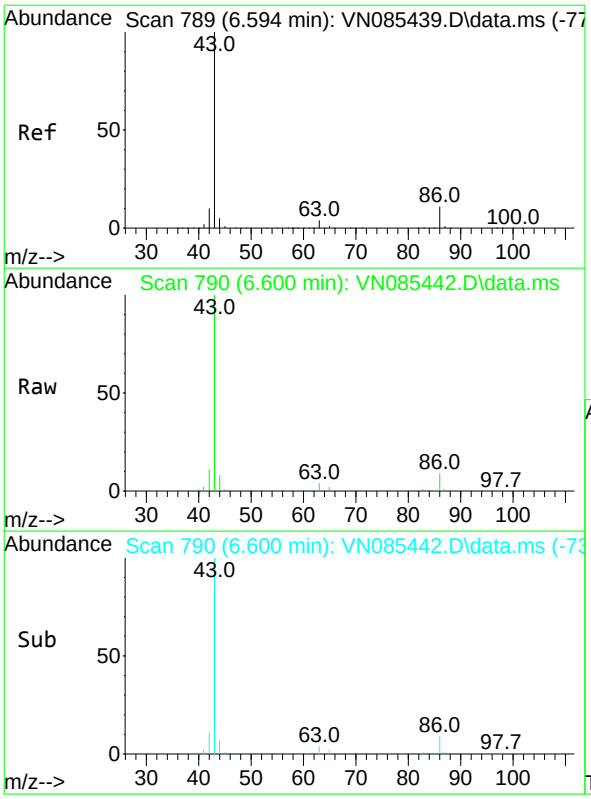


#22
Diisopropyl ether
Concen: 4.962 ug/l
RT: 6.665 min Scan# 801
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 45 Resp: 35785

Ion	Ratio	Lower	Upper
45	100		
43	58.3	45.0	67.6
87	24.2	21.8	32.8
59	9.7	10.2	15.2#

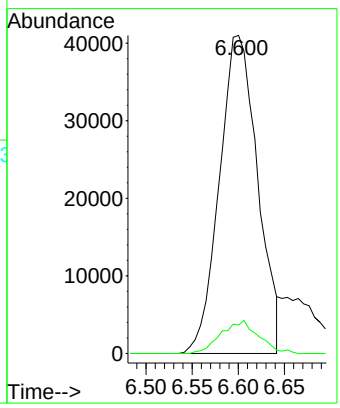




#23
Vinyl Acetate
Concen: 23.389 ug/l m
RT: 6.600 min Scan# 79
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 43 Resp: 118439

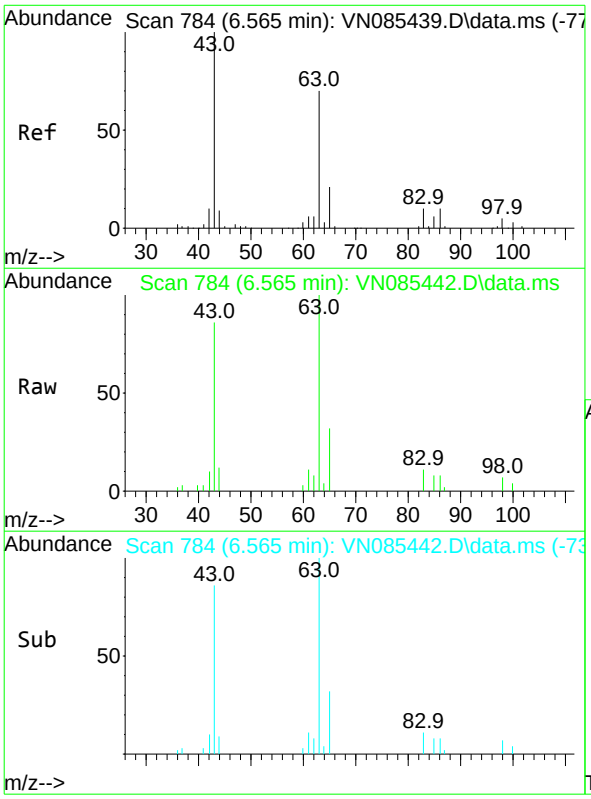
Ion	Ratio	Lower	Upper
43	100		
86	9.0	8.4	12.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

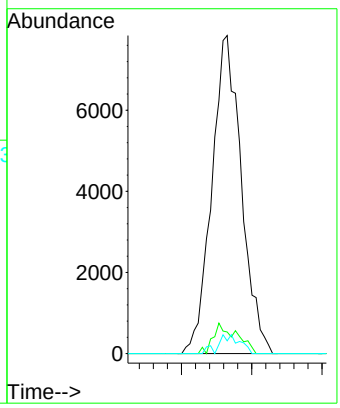
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

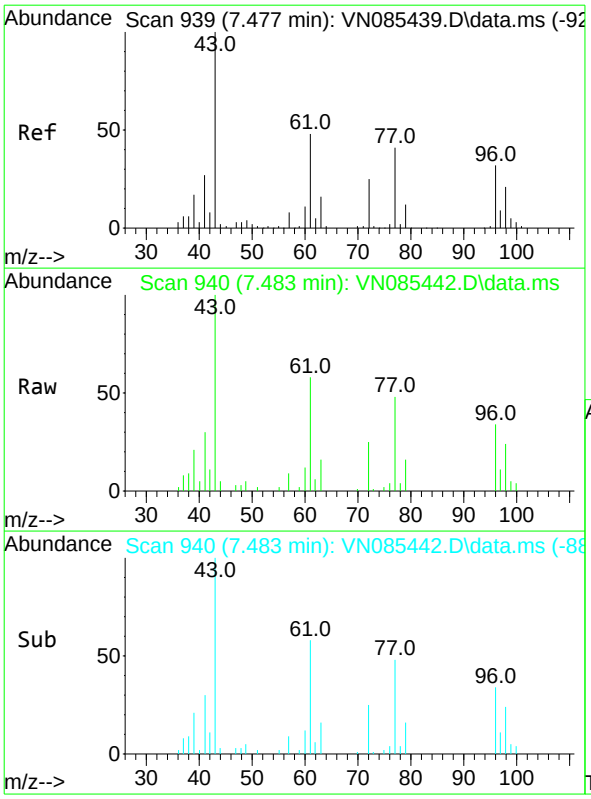


#24
1,1-Dichloroethane
Concen: 5.200 ug/l
RT: 6.565 min Scan# 784
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 63 Resp: 22865

Ion	Ratio	Lower	Upper
63	100		
98	6.8	3.3	9.8
100	4.0	2.0	6.0

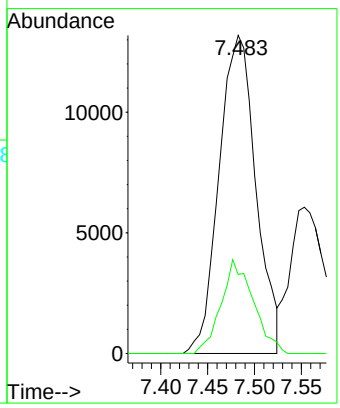




#25
2-Butanone
Concen: 25.231 ug/l
RT: 7.483 min Scan# 94
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 43 Resp: 36127

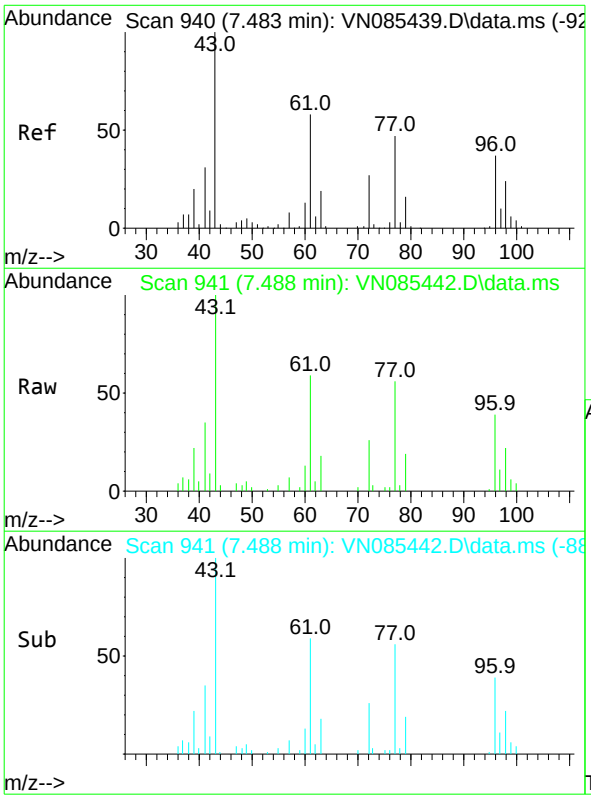
Ion	Ratio	Lower	Upper
43	100		
72	24.9	20.2	30.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

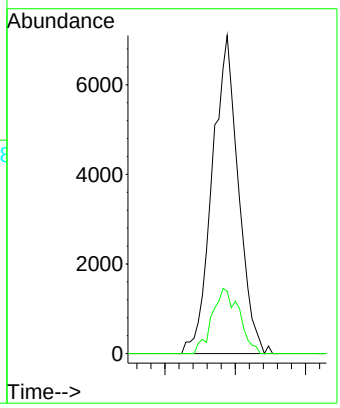
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

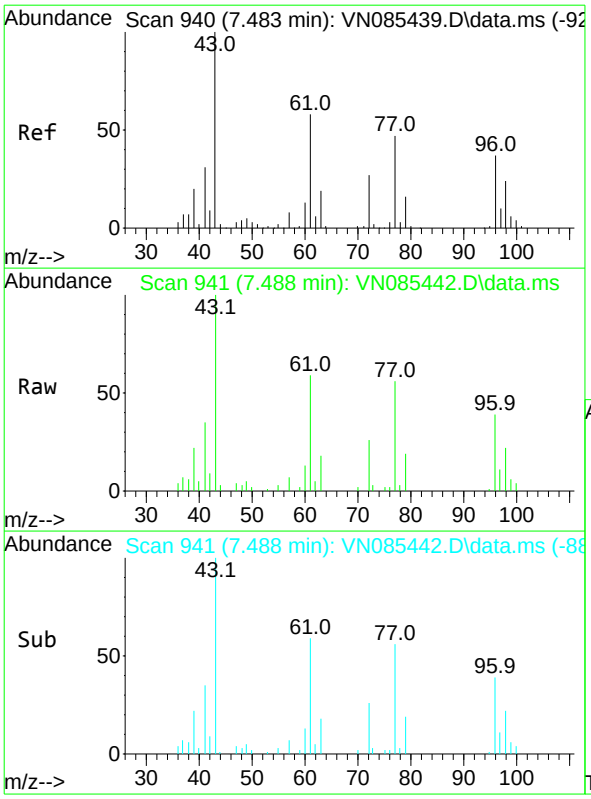


#26
2,2-Dichloropropane
Concen: 5.175 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 77 Resp: 18398

Ion	Ratio	Lower	Upper
77	100		
97	21.2	10.7	32.1

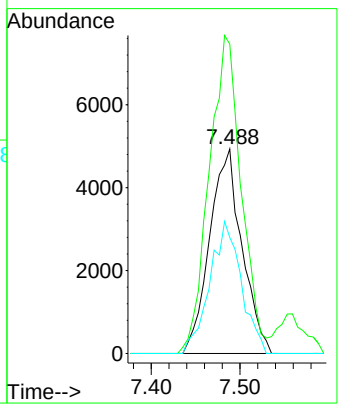




#27
cis-1,2-Dichloroethene
Concen: 4.951 ug/l
RT: 7.488 min Scan# 94
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 96 Resp: 12477

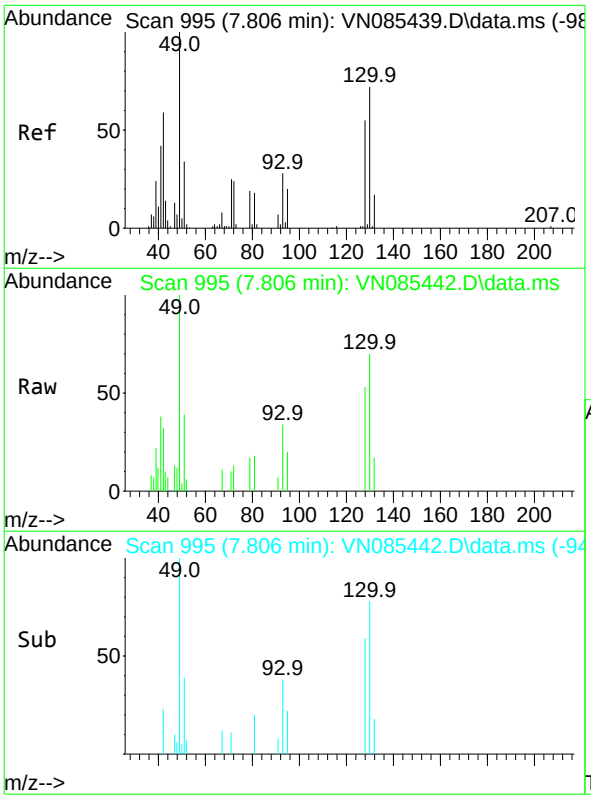
Ion	Ratio	Lower	Upper
96	100		
61	154.5	0.0	311.8
98	62.8	0.0	126.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

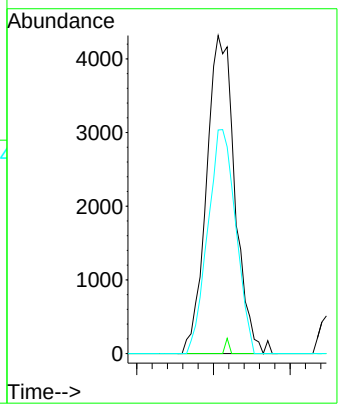
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

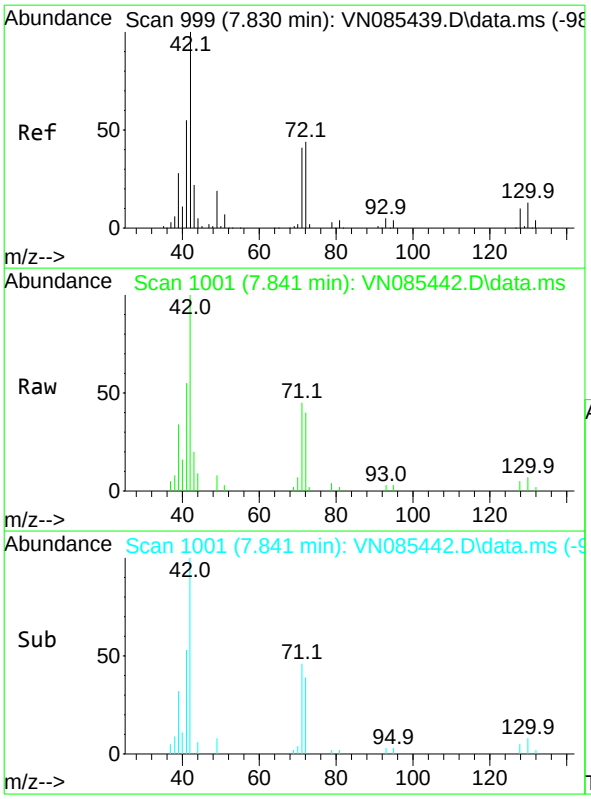


#28
Bromochloromethane
Concen: 5.424 ug/l
RT: 7.806 min Scan# 995
Delta R.T. -0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 49 Resp: 11096

Ion	Ratio	Lower	Upper
49	100		
129	0.7	0.0	4.4
130	69.5	55.0	82.4

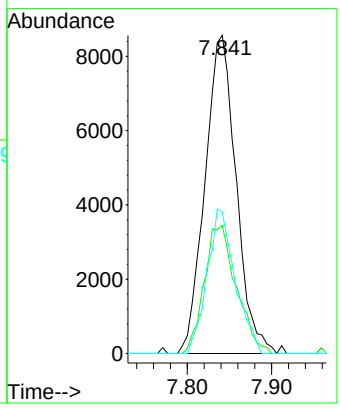




#29
Tetrahydrofuran
Concen: 24.215 ug/l
RT: 7.841 min Scan# 10
Delta R.T. 0.012 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 42 Resp: 21983

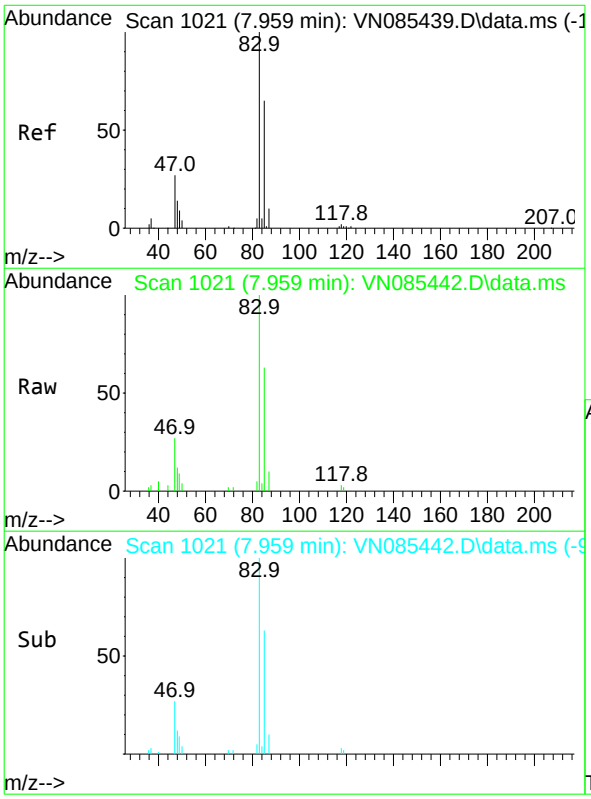
Ion	Ratio	Lower	Upper
42	100		
72	41.5	34.2	51.2
71	41.0	32.5	48.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

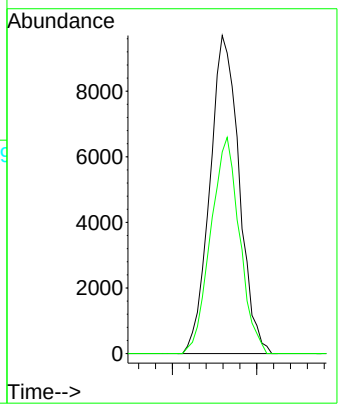
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

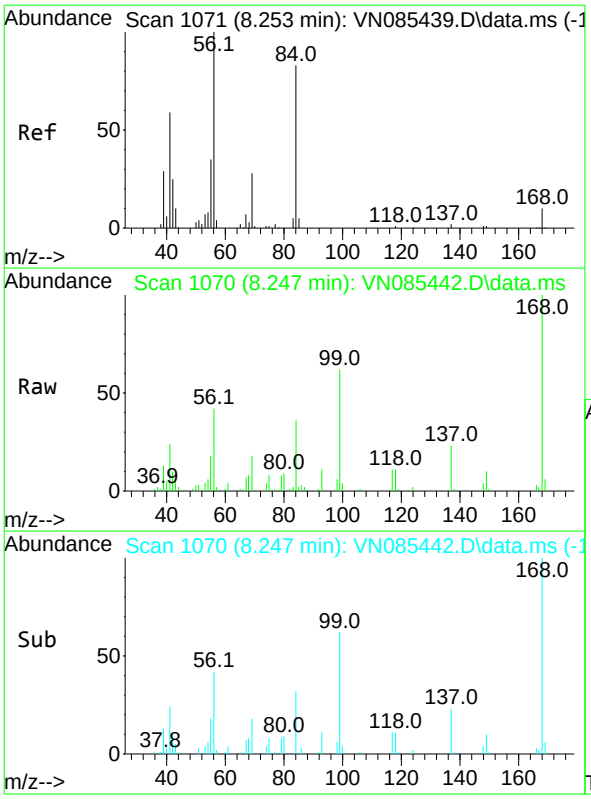


#30
Chloroform
Concen: 5.146 ug/l
RT: 7.959 min Scan# 1021
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 83 Resp: 23384

Ion	Ratio	Lower	Upper
83	100		
85	63.4	51.8	77.6

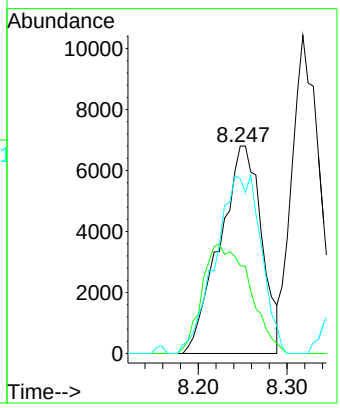




#31
Cyclohexane
Concen: 5.846 ug/l
RT: 8.247 min Scan# 10
Delta R.T. -0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 56 Resp: 22343

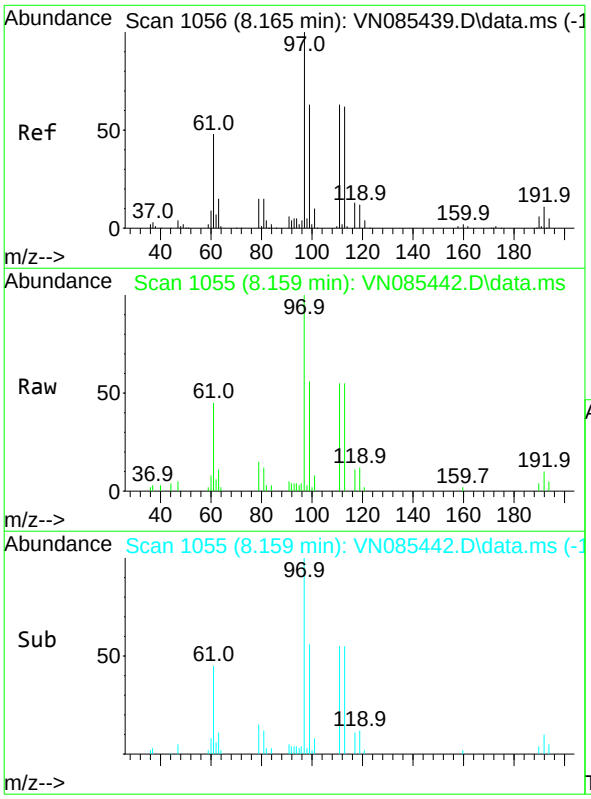
Ion	Ratio	Lower	Upper
56	100		
69	42.3	22.2	33.4#
84	84.3	66.4	99.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

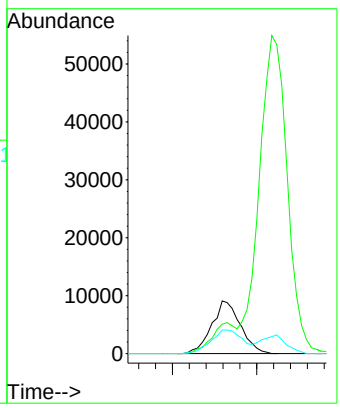
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

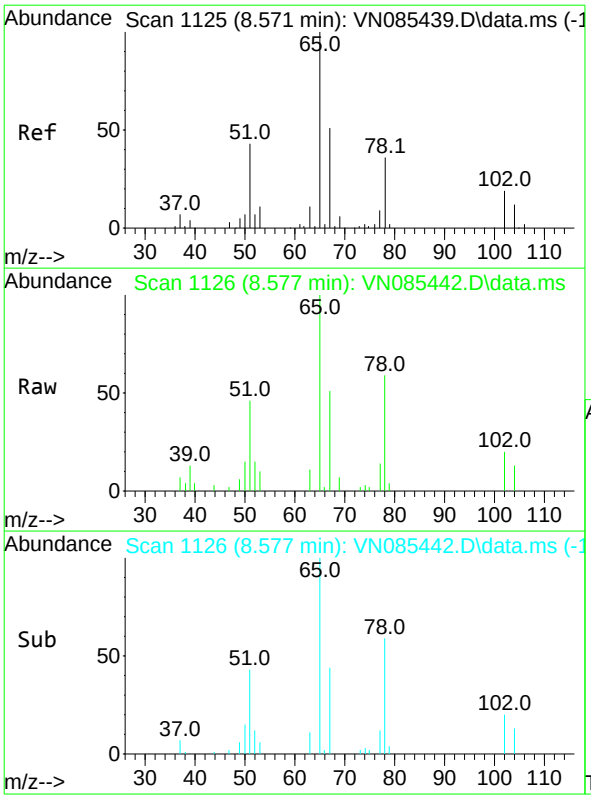


#32
1,1,1-Trichloroethane
Concen: 5.372 ug/l
RT: 8.159 min Scan# 1055
Delta R.T. -0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 97 Resp: 21416

Ion	Ratio	Lower	Upper
97	100		
99	50.5	49.8	74.6
61	50.1	41.4	62.2

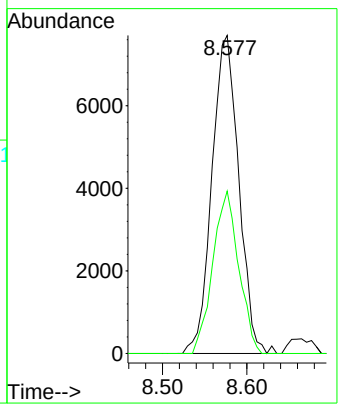




#33
1,2-Dichloroethane-d4
Concen: 5.660 ug/l
RT: 8.577 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 65 Resp: 17046

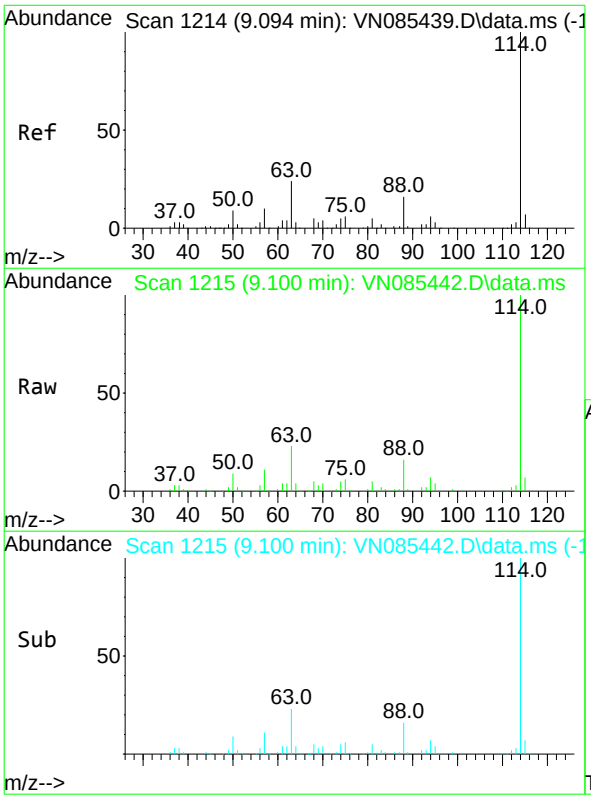
Ion	Ratio	Lower	Upper
65	100		
67	49.2	0.0	101.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

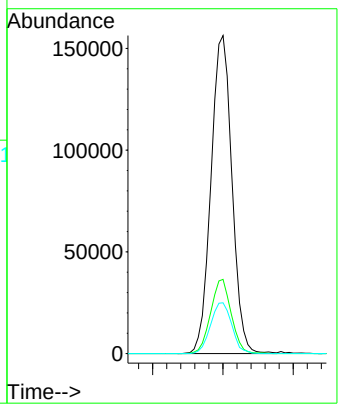
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

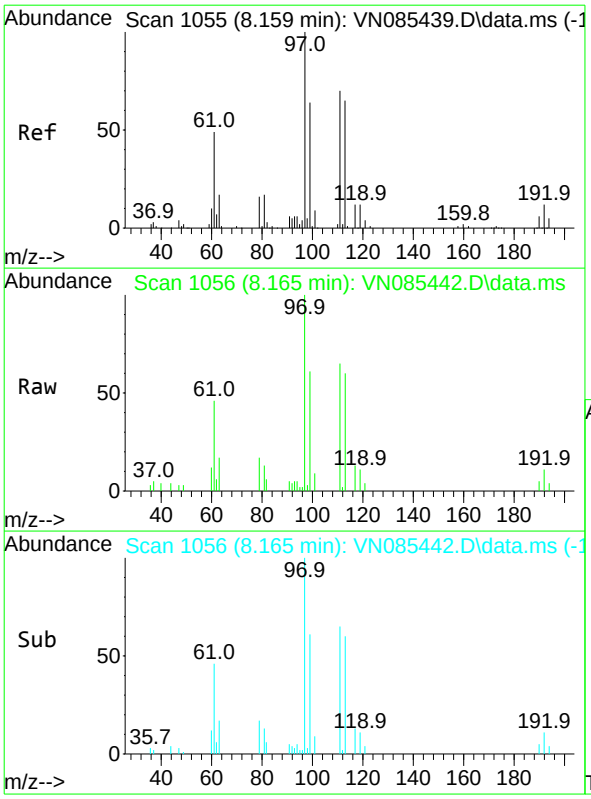


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion:114 Resp: 324413

Ion	Ratio	Lower	Upper
114	100		
63	23.3	0.0	47.6
88	16.0	0.0	32.6

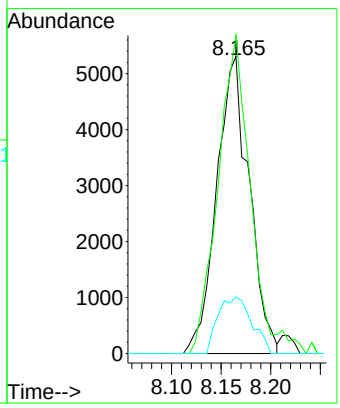




#35
Dibromofluoromethane
Concen: 5.377 ug/l
RT: 8.165 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion:113 Resp: 12102

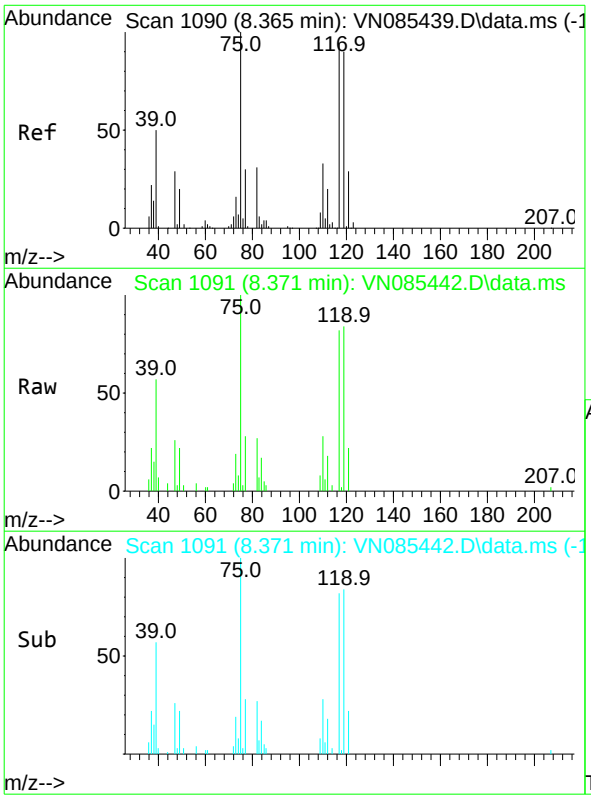
Ion	Ratio	Lower	Upper
113	100		
111	107.4	82.7	124.1
192	19.7	14.3	21.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

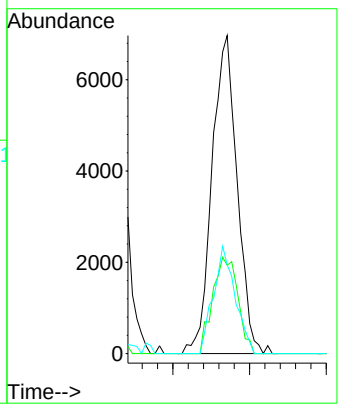
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

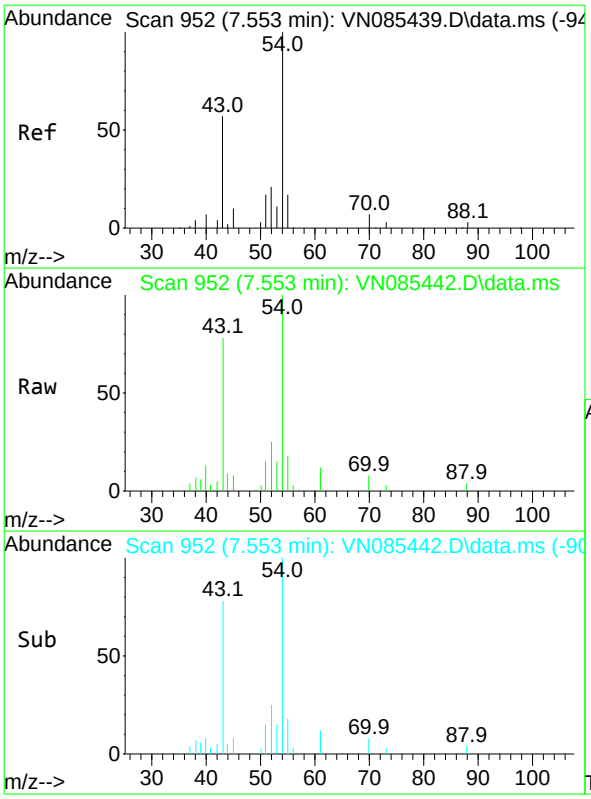


#36
1,1-Dichloropropene
Concen: 5.029 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 75 Resp: 15886

Ion	Ratio	Lower	Upper
75	100		
110	30.3	16.5	49.5
77	29.2	24.4	36.6

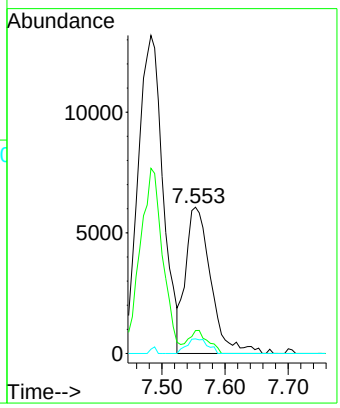




#37
Ethyl Acetate
Concen: 5.294 ug/l m
RT: 7.553 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 43 Resp: 16879

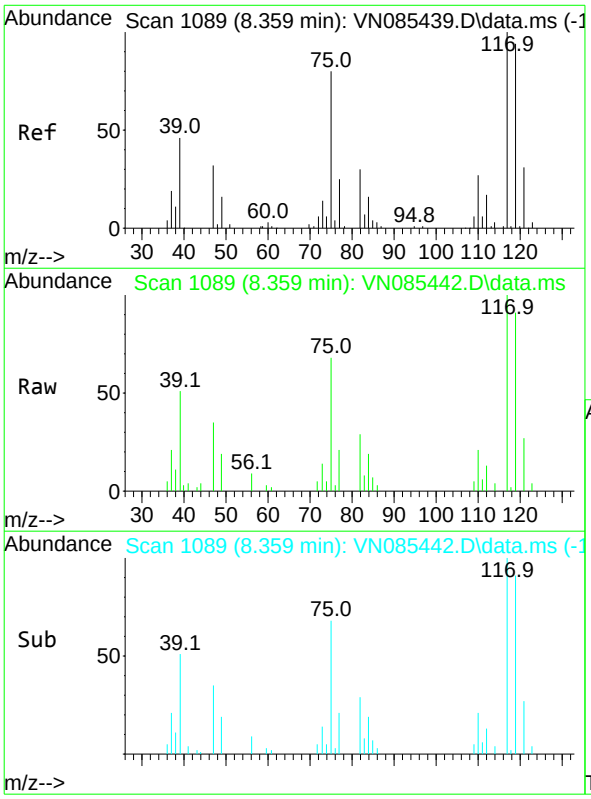
Ion	Ratio	Lower	Upper
43	100		
61	12.3	10.9	16.3
70	8.4	7.5	11.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

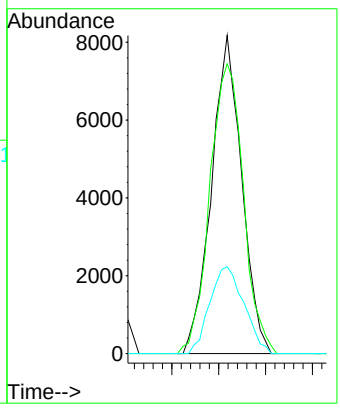
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

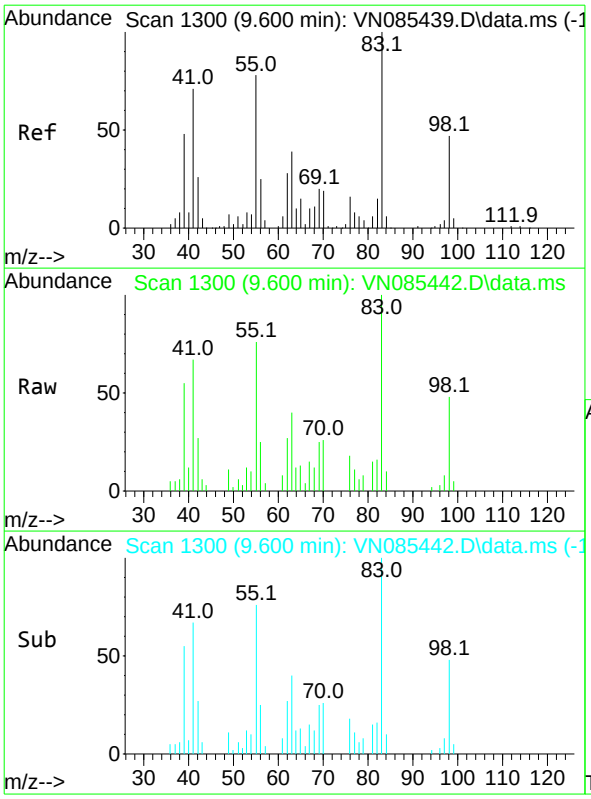


#38
Carbon Tetrachloride
Concen: 5.065 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion:117 Resp: 18317

Ion	Ratio	Lower	Upper
117	100		
119	91.1	75.4	113.2
121	27.3	24.6	37.0





#39
Methylcyclohexane
Concen: 4.776 ug/l
RT: 9.600 min Scan# 13
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

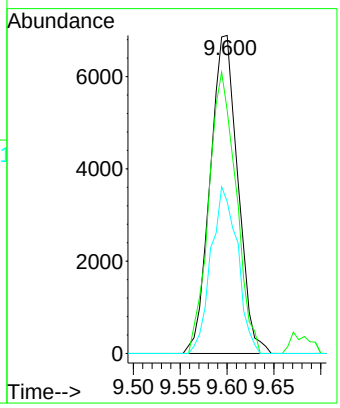
Tgt Ion: 83 Resp: 14175

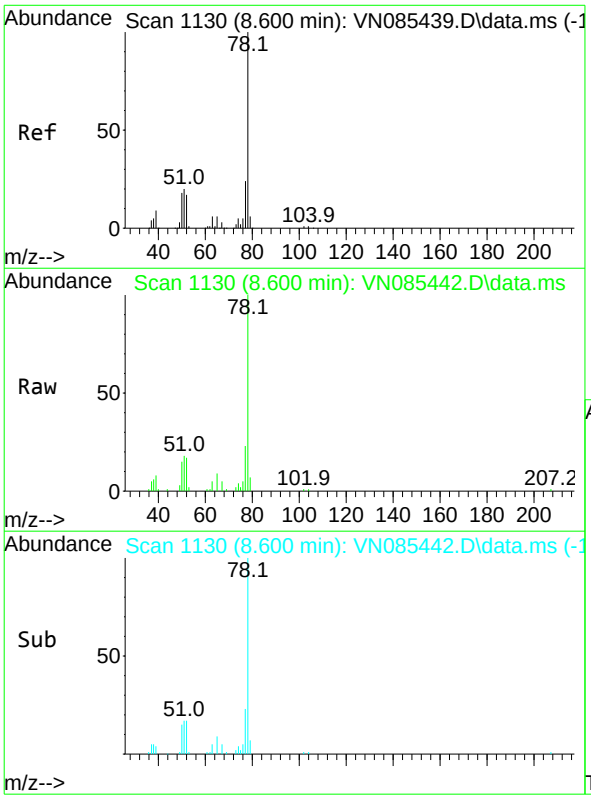
Ion	Ratio	Lower	Upper
83	100		
55	76.5	62.6	94.0
98	47.7	37.7	56.5

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

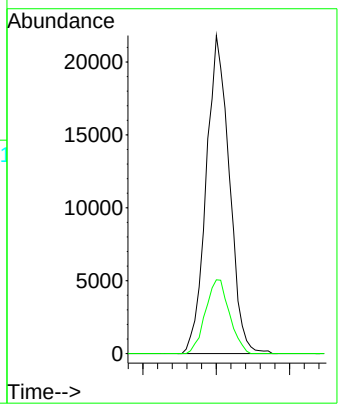


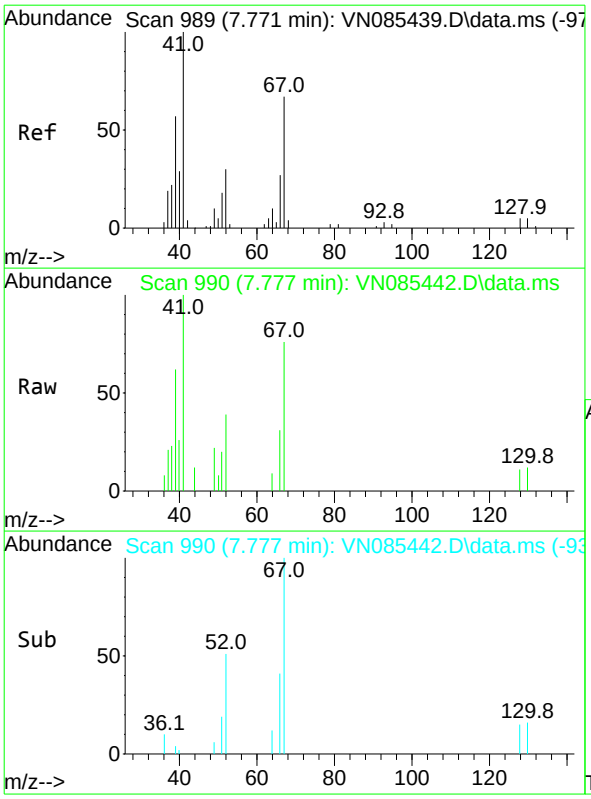


#40
Benzene
Concen: 5.040 ug/l
RT: 8.600 min Scan# 1130
Delta R.T. -0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 78 Resp: 47833

Ion	Ratio	Lower	Upper
78	100		
77	23.2	19.0	28.6

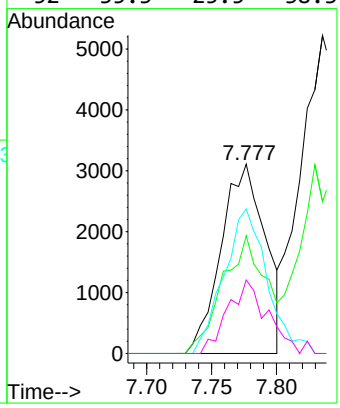




#41
Methacrylonitrile
Concen: 4.449 ug/l
RT: 7.777 min Scan# 99
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 41 Resp: 7380

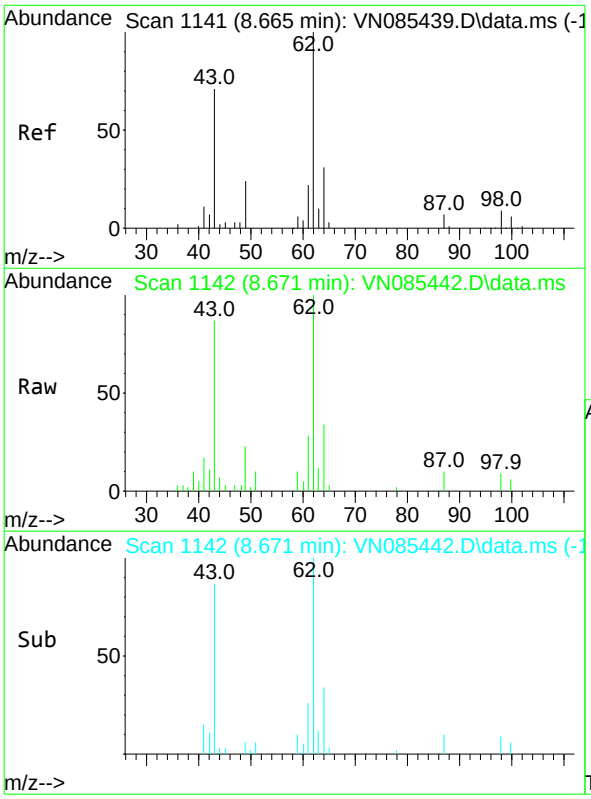
Ion	Ratio	Lower	Upper
41	100		
39	60.5	46.0	69.0
67	74.6	57.4	86.2
52	35.3	25.5	38.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

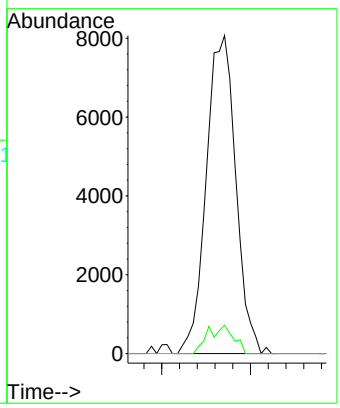
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

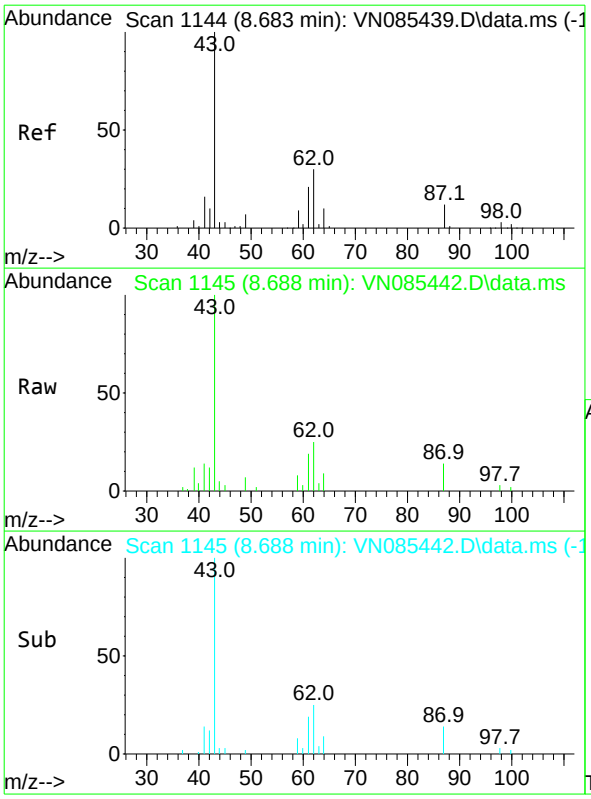


#42
1,2-Dichloroethane
Concen: 5.211 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 62 Resp: 18628

Ion	Ratio	Lower	Upper
62	100		
98	7.8	0.0	17.0

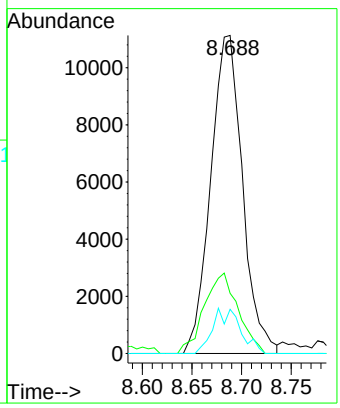




#43
Isopropyl Acetate
Concen: 4.853 ug/l
RT: 8.688 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 43 Resp: 24792

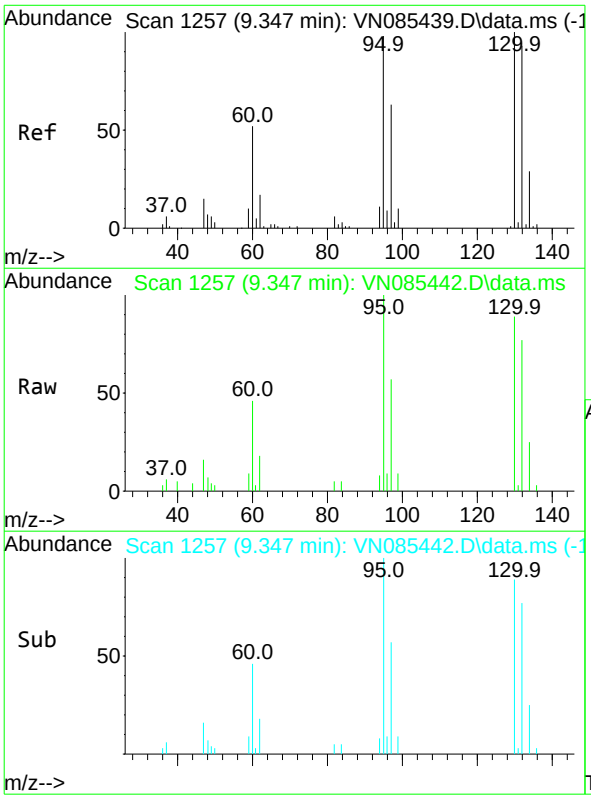
Ion	Ratio	Lower	Upper
43	100		
61	27.0	20.7	31.1
87	12.3	9.8	14.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

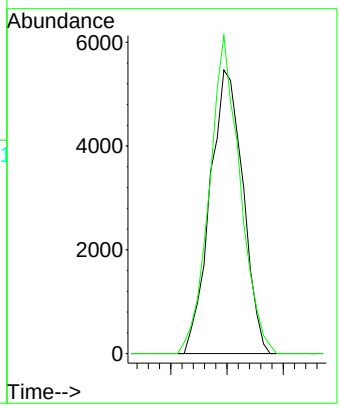
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

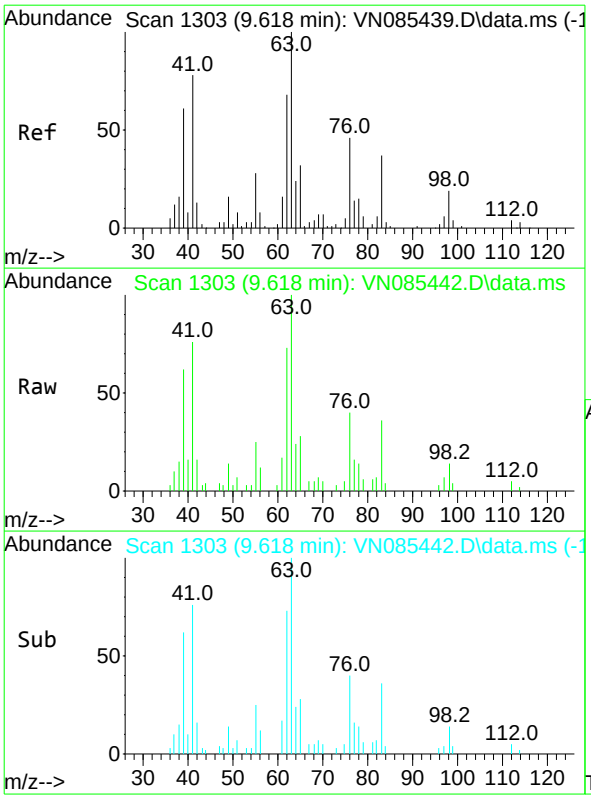


#44
Trichloroethene
Concen: 5.039 ug/l
RT: 9.347 min Scan# 1257
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion:130 Resp: 11133

Ion	Ratio	Lower	Upper
130	100		
95	112.2	0.0	195.8

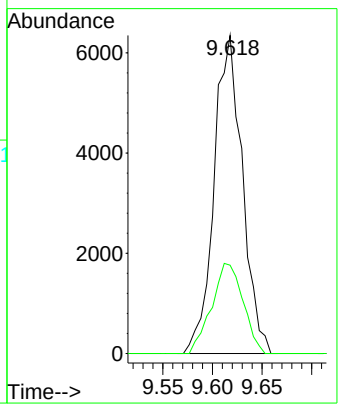




#45
1,2-Dichloropropane
Concen: 5.194 ug/l
RT: 9.618 min Scan# 13
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 63 Resp: 12591

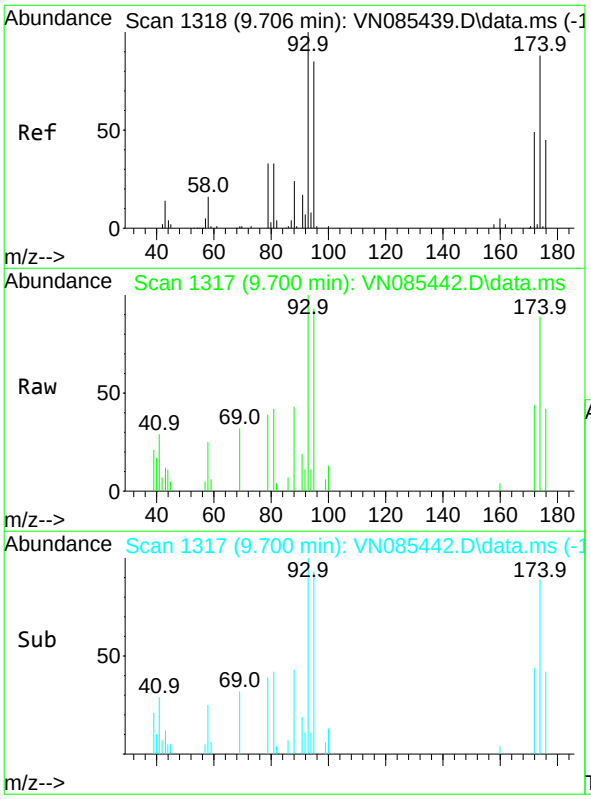
Ion	Ratio	Lower	Upper
63	100		
65	27.8	25.6	38.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

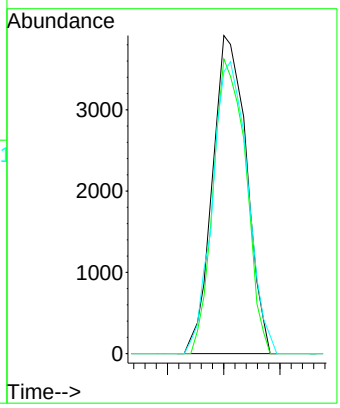
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

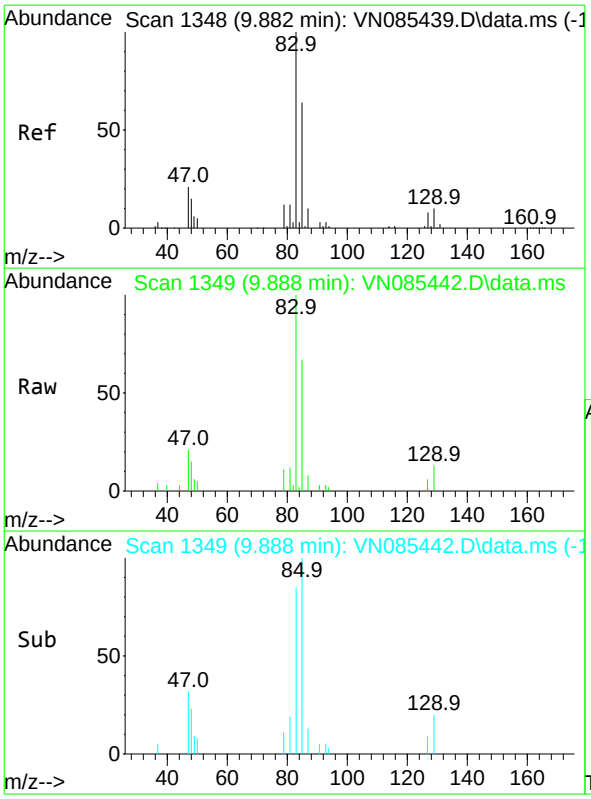


#46
Dibromomethane
Concen: 4.705 ug/l
RT: 9.700 min Scan# 1317
Delta R.T. -0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 93 Resp: 8230

Ion	Ratio	Lower	Upper
93	100		
95	88.7	64.7	97.1
174	95.0	69.0	103.4

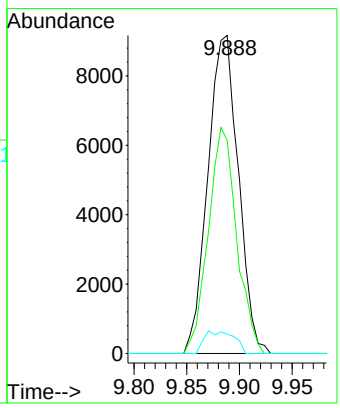




#47
Bromodichloromethane
Concen: 5.179 ug/l
RT: 9.888 min Scan# 13
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 83 Resp: 18456

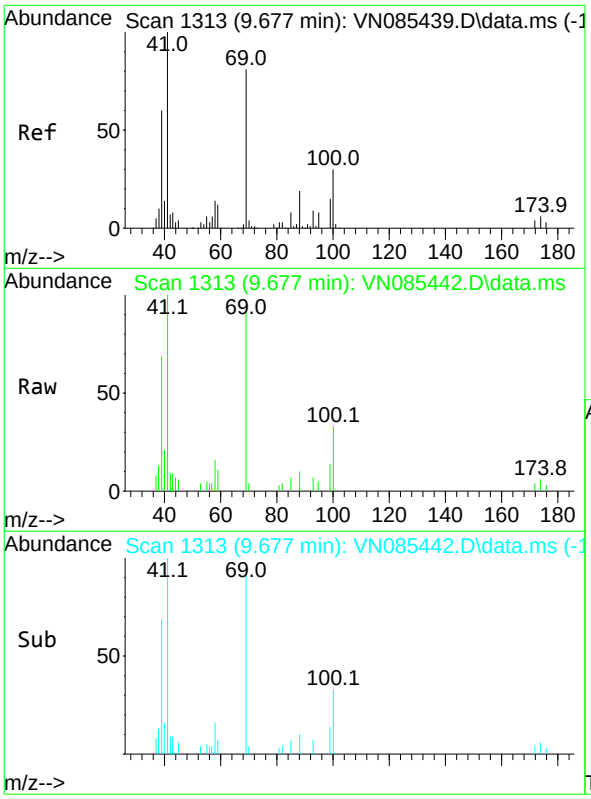
Ion	Ratio	Lower	Upper
83	100		
85	67.0	51.2	76.8
127	6.1	6.5	9.7#



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

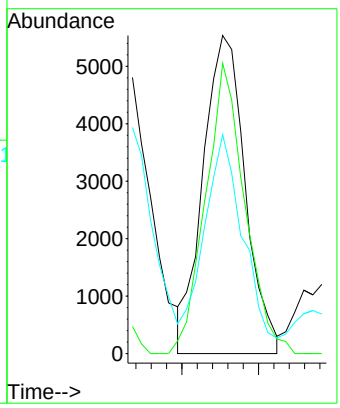
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

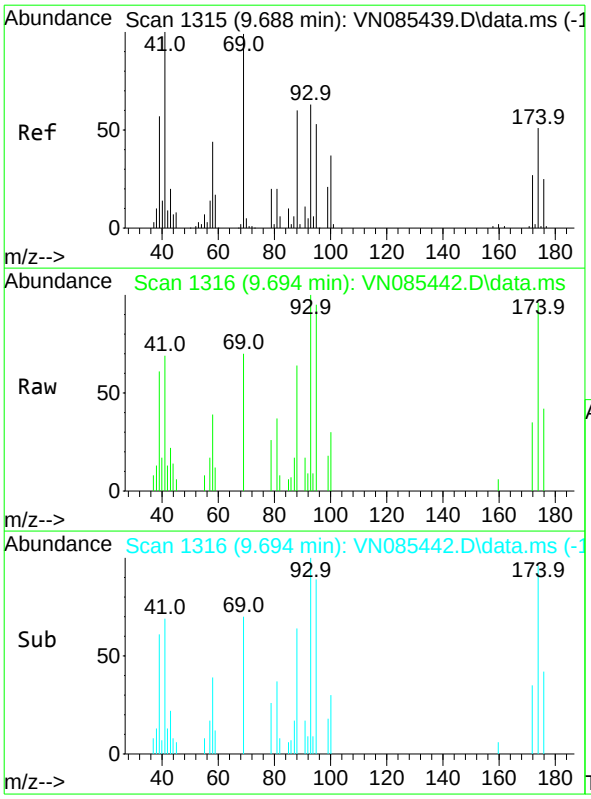


#48
Methyl methacrylate
Concen: 4.599 ug/l
RT: 9.677 min Scan# 1313
Delta R.T. -0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 41 Resp: 10574

Ion	Ratio	Lower	Upper
41	100		
69	84.9	64.7	97.1
39	65.3	49.0	73.6

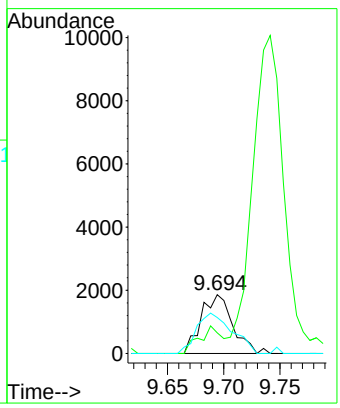




#49
1,4-Dioxane
Concen: 93.477 ug/l
RT: 9.694 min Scan# 13
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 88 Resp: 3619

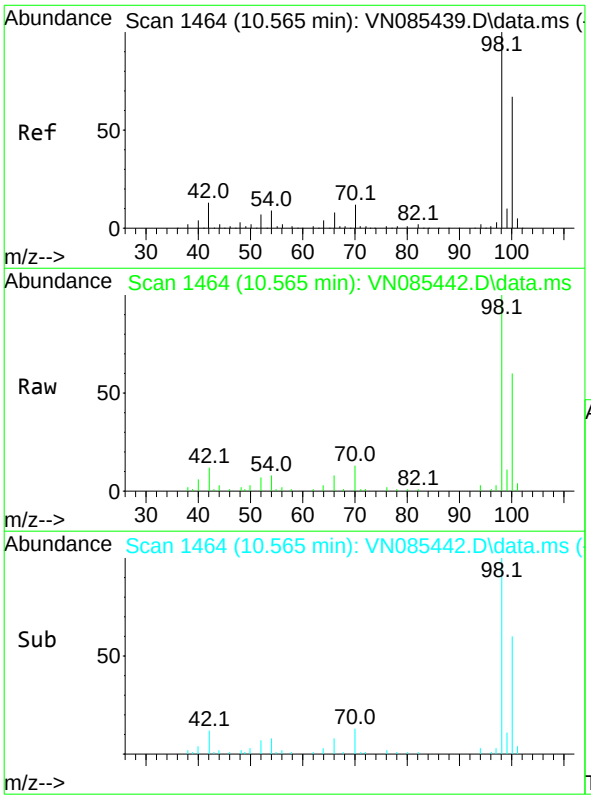
Ion	Ratio	Lower	Upper
88	100		
43	32.3	26.6	39.8
58	77.9	59.5	89.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

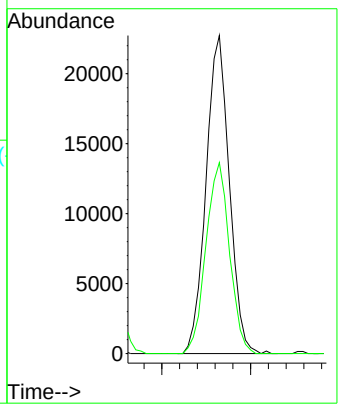
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

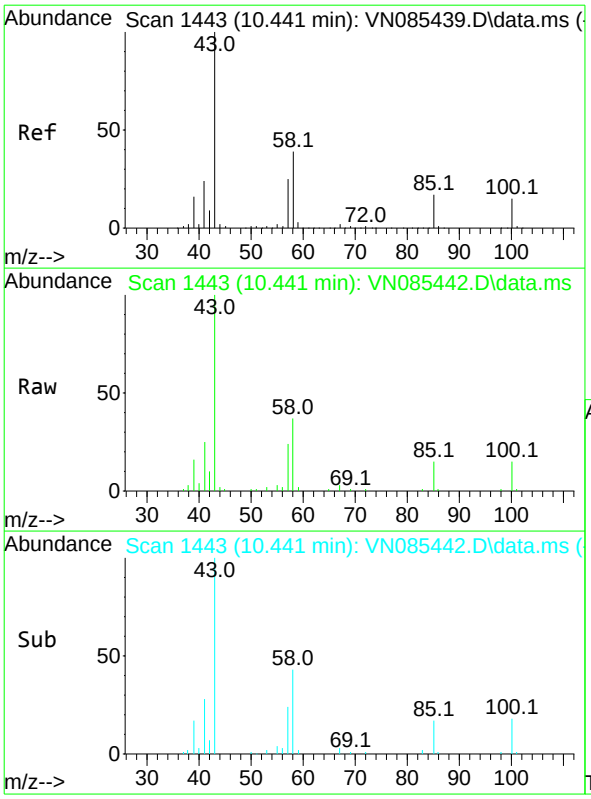


#50
Toluene-d8
Concen: 5.168 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 98 Resp: 41328

Ion	Ratio	Lower	Upper
98	100		
100	60.9	52.2	78.4

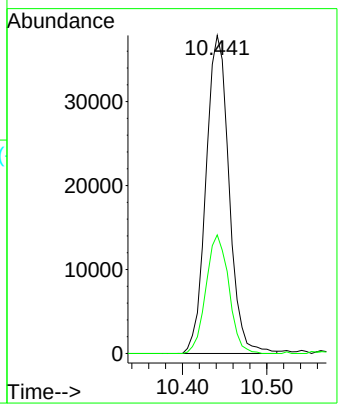




#51
4-Methyl-2-Pentanone
Concen: 24.250 ug/l
RT: 10.441 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 43 Resp: 71889

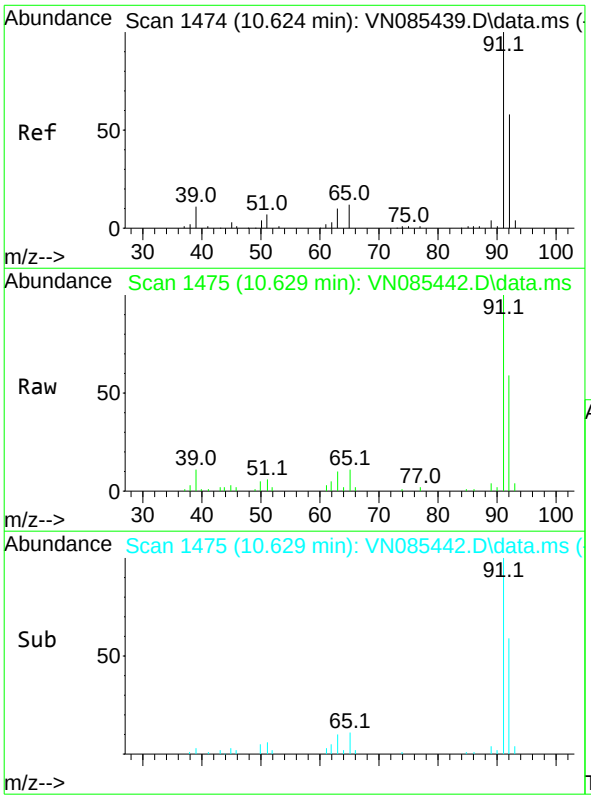
Ion	Ratio	Lower	Upper
43	100		
58	36.9	30.5	45.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

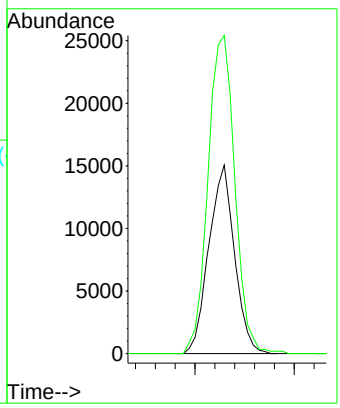
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

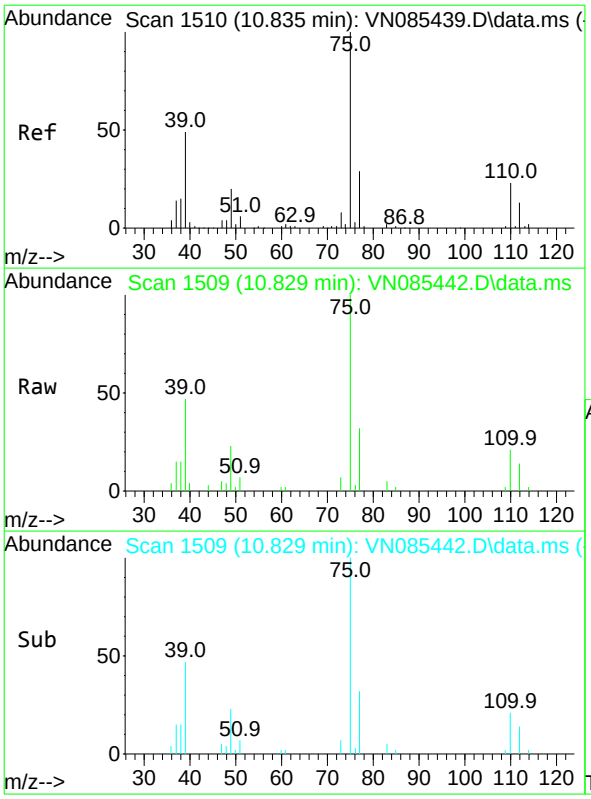


#52
Toluene
Concen: 4.928 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.005 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 92 Resp: 27098

Ion	Ratio	Lower	Upper
92	100		
91	176.4	139.2	208.8

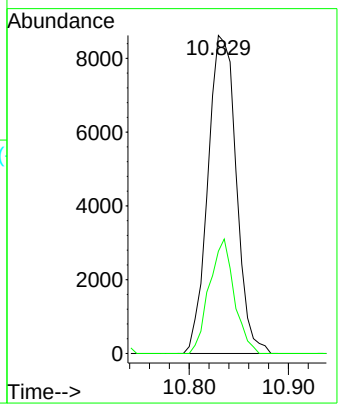




#53
t-1,3-Dichloropropene
Concen: 5.077 ug/l
RT: 10.829 min Scan# 15
Delta R.T. -0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 75 Resp: 17099

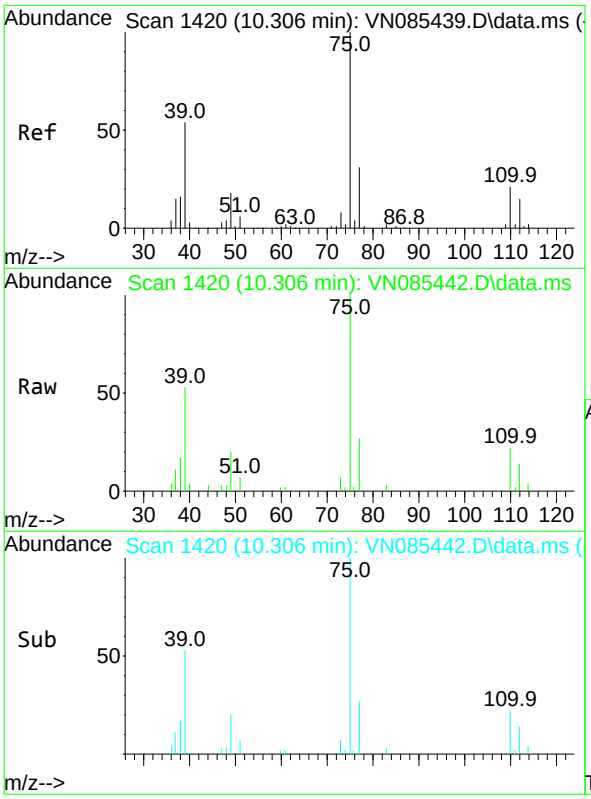
Ion	Ratio	Lower	Upper
75	100		
77	32.2	23.5	35.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

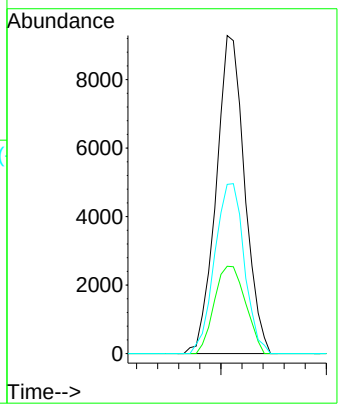
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

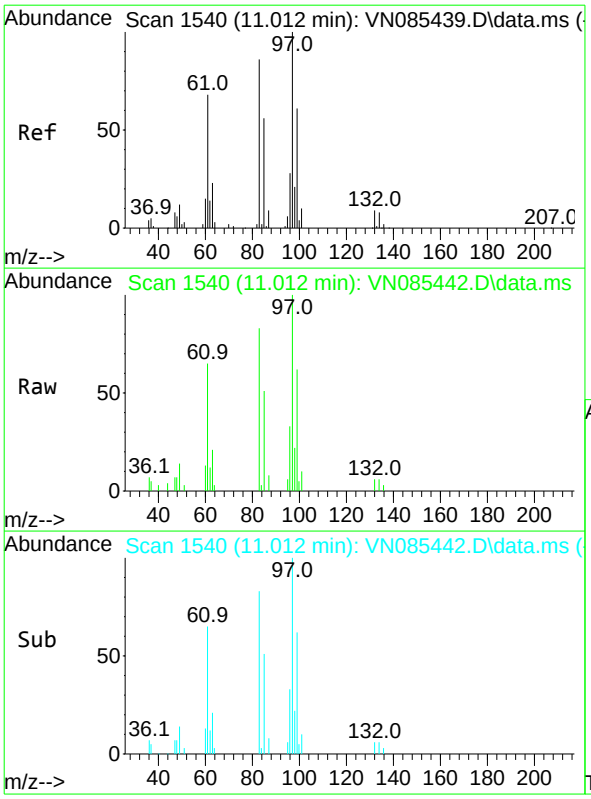


#54
cis-1,3-Dichloropropene
Concen: 4.848 ug/l
RT: 10.306 min Scan# 1420
Delta R.T. -0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 75 Resp: 17440

Ion	Ratio	Lower	Upper
75	100		
77	27.5	25.0	37.4
39	53.2	43.1	64.7

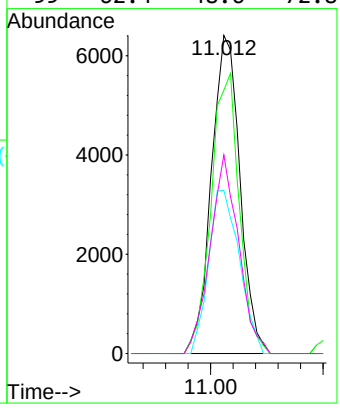




#55
1,1,2-Trichloroethane
Concen: 5.197 ug/l
RT: 11.012 min Scan# 15
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 97 Resp: 11311

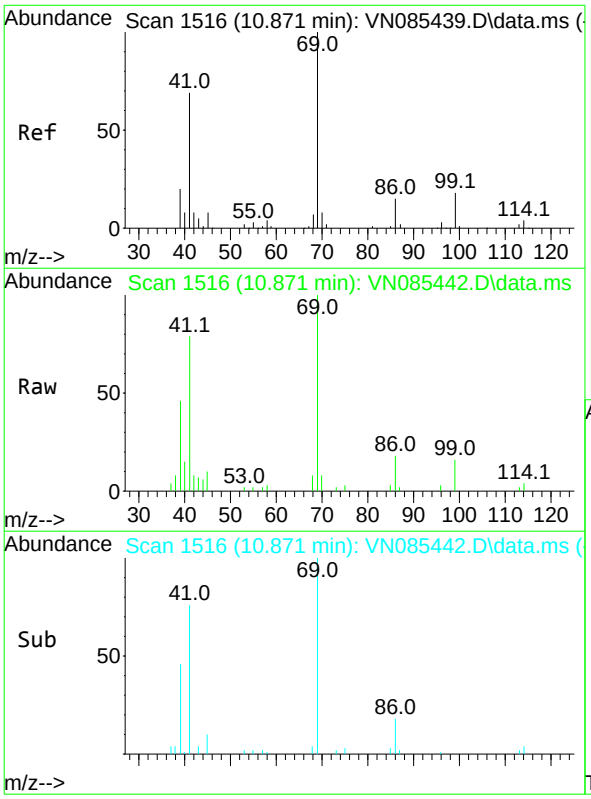
Ion	Ratio	Lower	Upper
97	100		
83	82.7	69.0	103.6
85	51.3	44.6	66.8
99	62.4	48.6	72.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

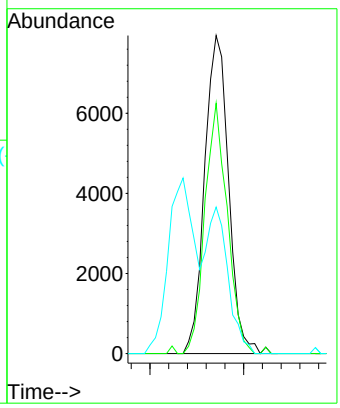
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

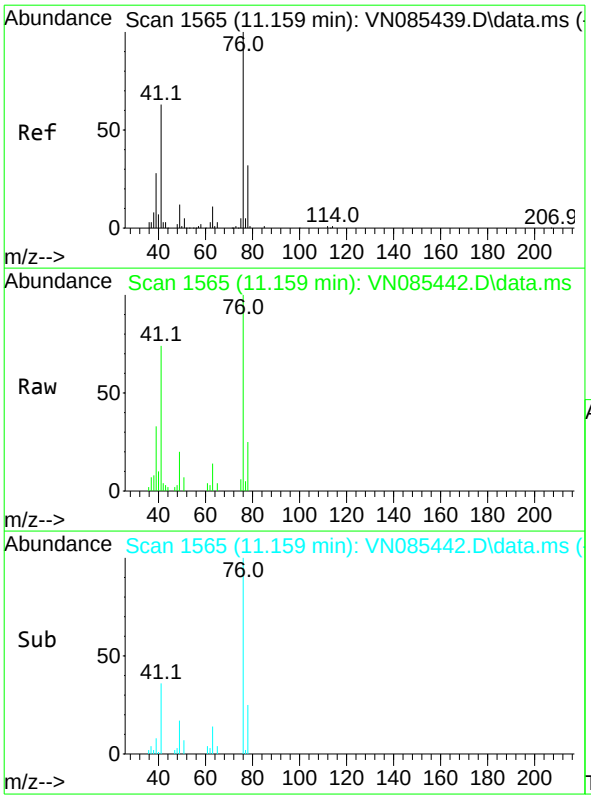


#56
Ethyl methacrylate
Concen: 5.627 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 69 Resp: 14094

Ion	Ratio	Lower	Upper
69	100		
41	73.8	54.6	82.0
39	42.6	32.4	48.6

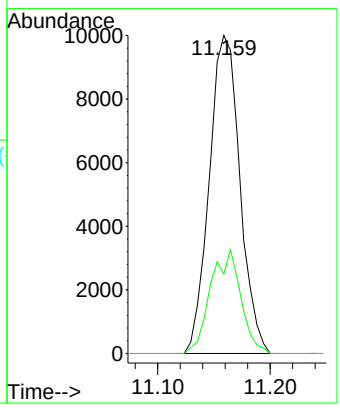




#57
1,3-Dichloropropane
Concen: 5.006 ug/l
RT: 11.159 min Scan# 15
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 76 Resp: 18945

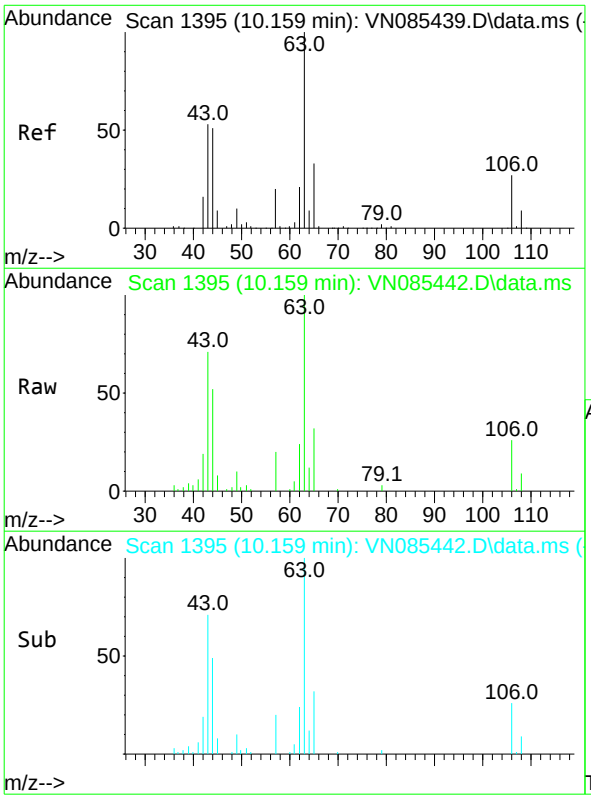
Ion	Ratio	Lower	Upper
76	100		
78	32.2	25.6	38.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

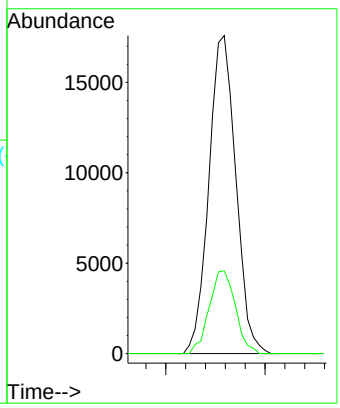
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

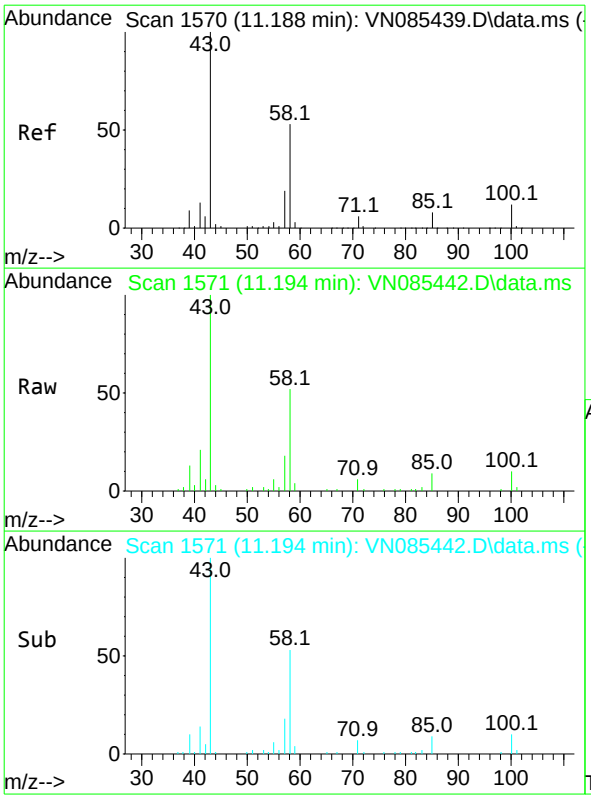


#58
2-Chloroethyl Vinyl ether
Concen: 24.047 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 63 Resp: 33210

Ion	Ratio	Lower	Upper
63	100		
106	25.2	21.6	32.4

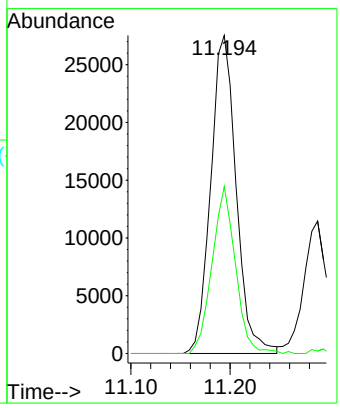




#59
2-Hexanone
Concen: 23.501 ug/l
RT: 11.194 min Scan# 15
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 43 Resp: 49021

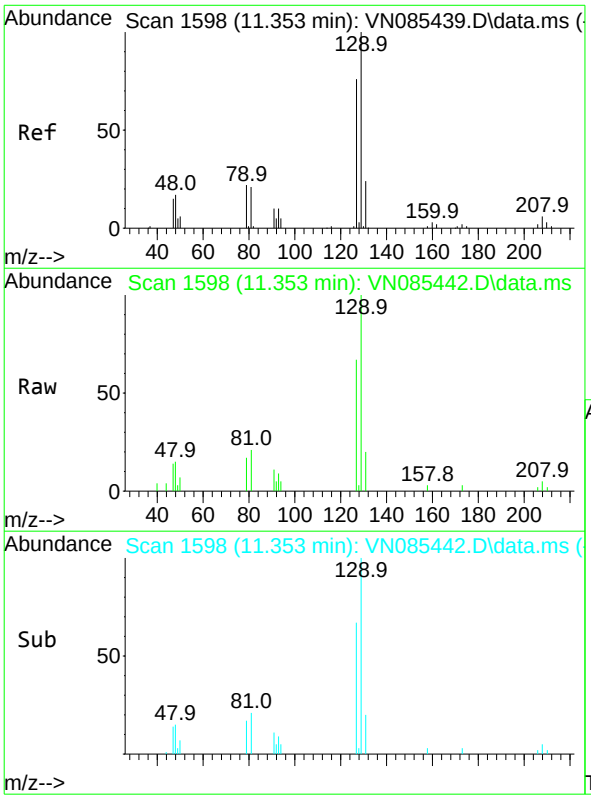
Ion	Ratio	Lower	Upper
43	100		
58	48.3	26.2	78.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

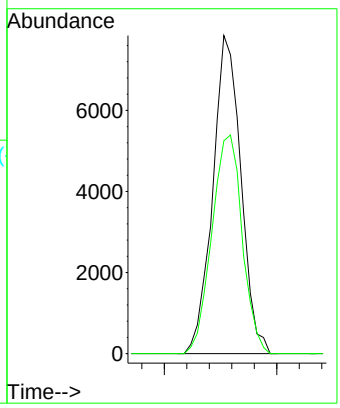
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

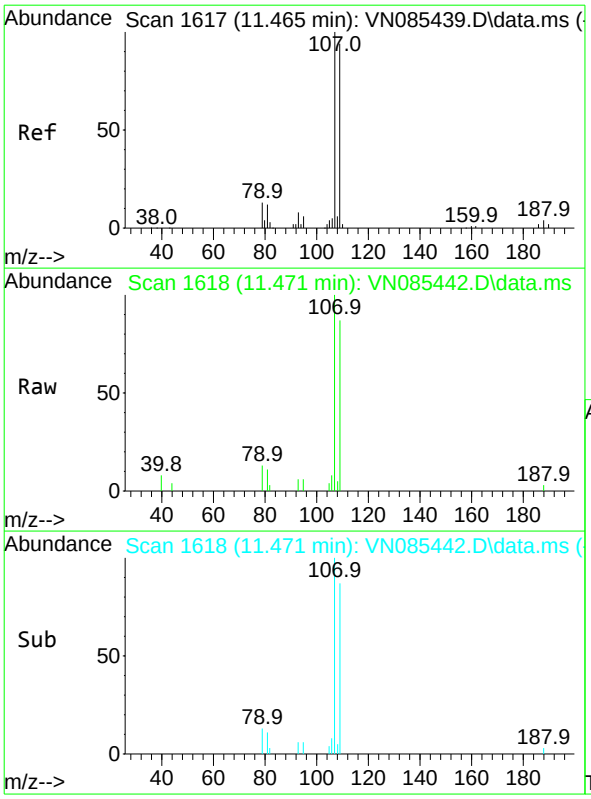


#60
Dibromochloromethane
Concen: 5.190 ug/l
RT: 11.353 min Scan# 1598
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion:129 Resp: 13635

Ion	Ratio	Lower	Upper
129	100		
127	73.9	38.6	115.8

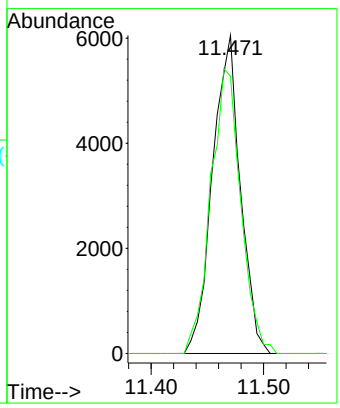




#61
1,2-Dibromoethane
Concen: 4.810 ug/l
RT: 11.471 min Scan# 16
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion:107 Resp: 10419

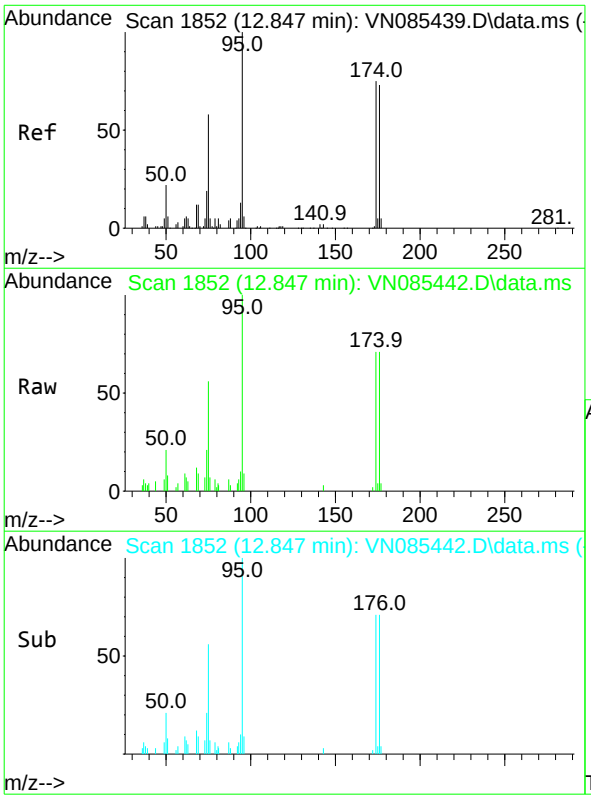
Ion	Ratio	Lower	Upper
107	100		
109	96.8	75.9	113.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

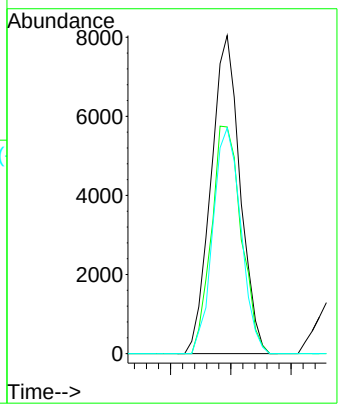
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

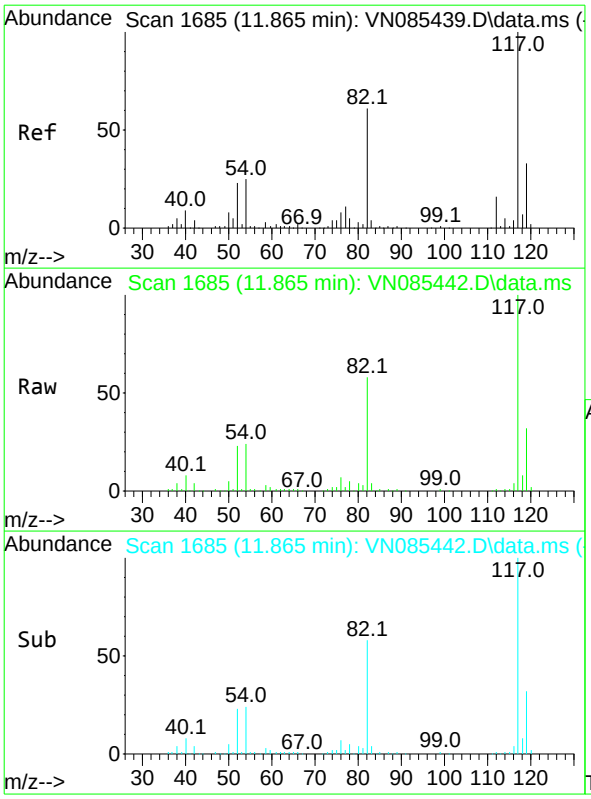


#62
4-Bromofluorobenzene
Concen: 4.943 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 95 Resp: 13520

Ion	Ratio	Lower	Upper
95	100		
174	73.2	0.0	145.0
176	68.0	0.0	142.4

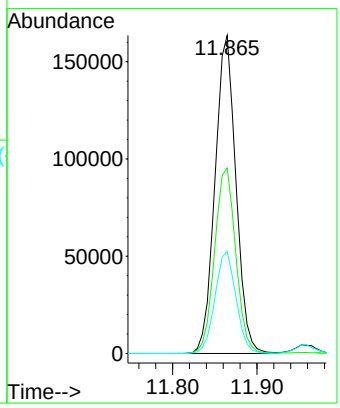




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 16
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion:117 Resp: 282203

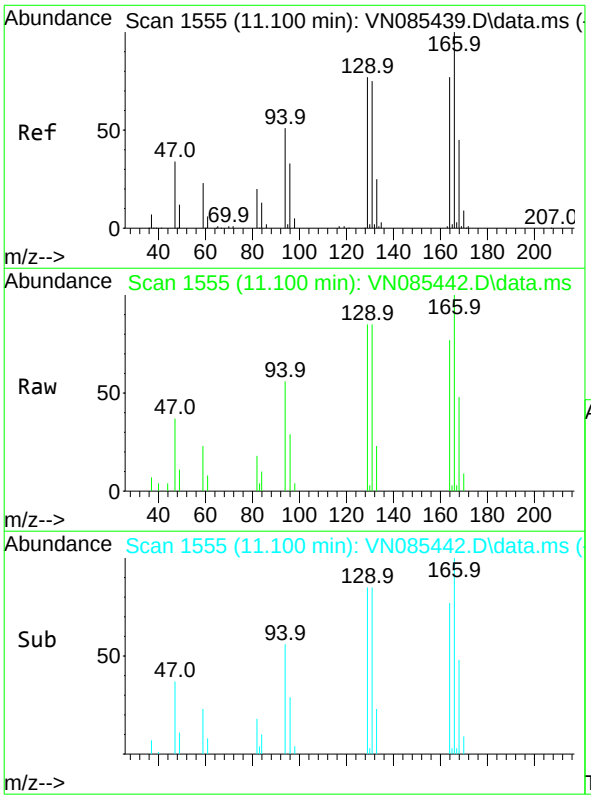
Ion	Ratio	Lower	Upper
117	100		
82	58.3	48.6	72.8
119	32.1	26.6	39.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

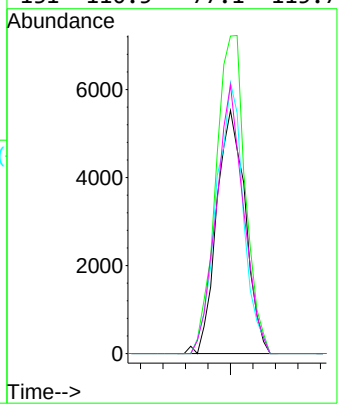
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

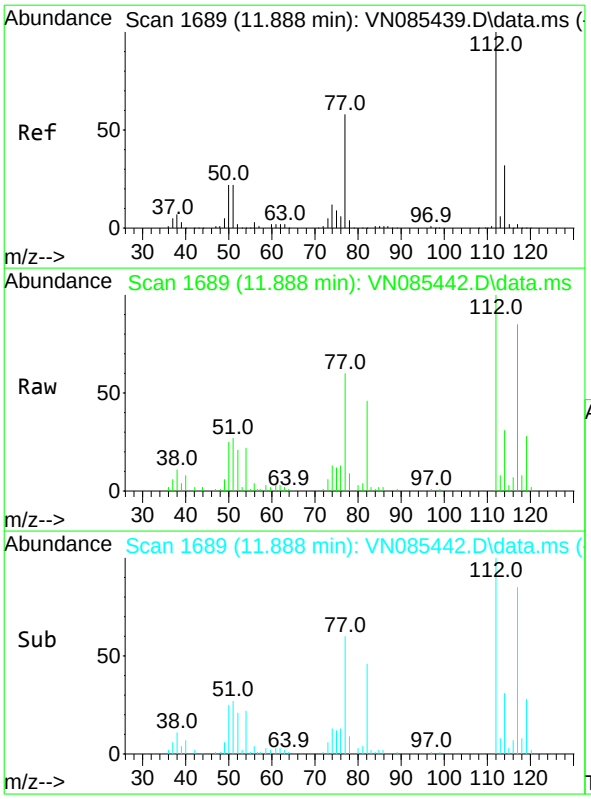


#64
Tetrachloroethene
Concen: 5.071 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion:164 Resp: 9756

Ion	Ratio	Lower	Upper
164	100		
166	130.6	103.4	155.2
129	111.5	79.2	118.8
131	110.5	77.1	115.7

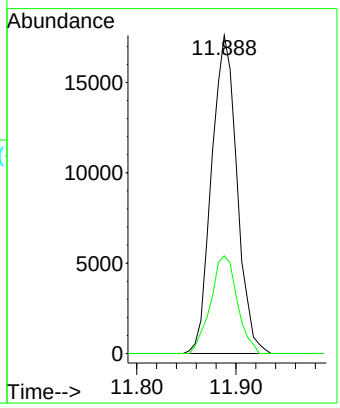




#65
Chlorobenzene
Concen: 5.065 ug/l
RT: 11.888 min Scan# 16
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion:112 Resp: 31312

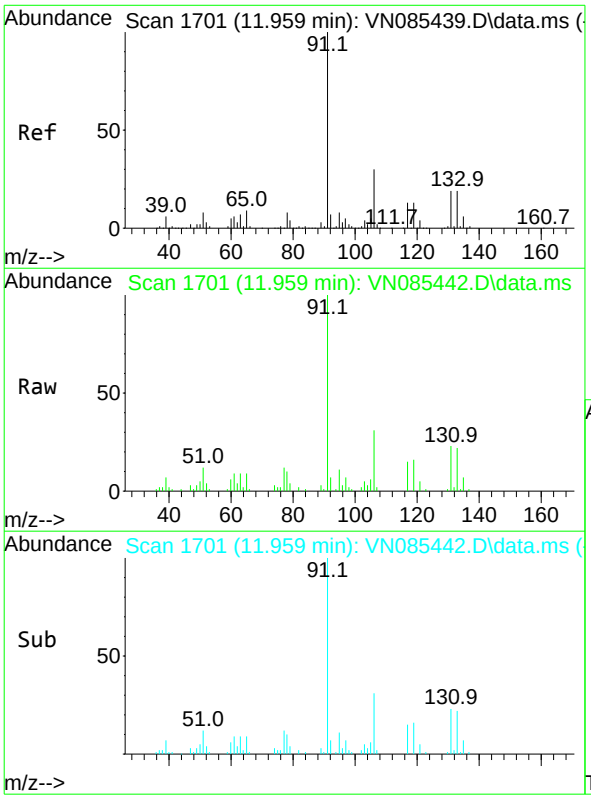
Ion	Ratio	Lower	Upper
112	100		
114	30.7	25.3	37.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

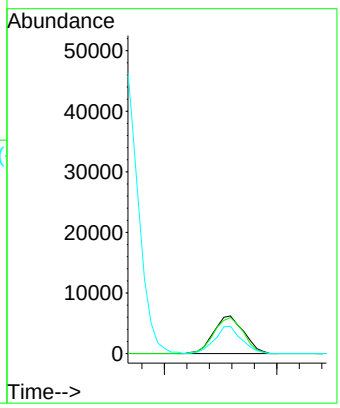
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

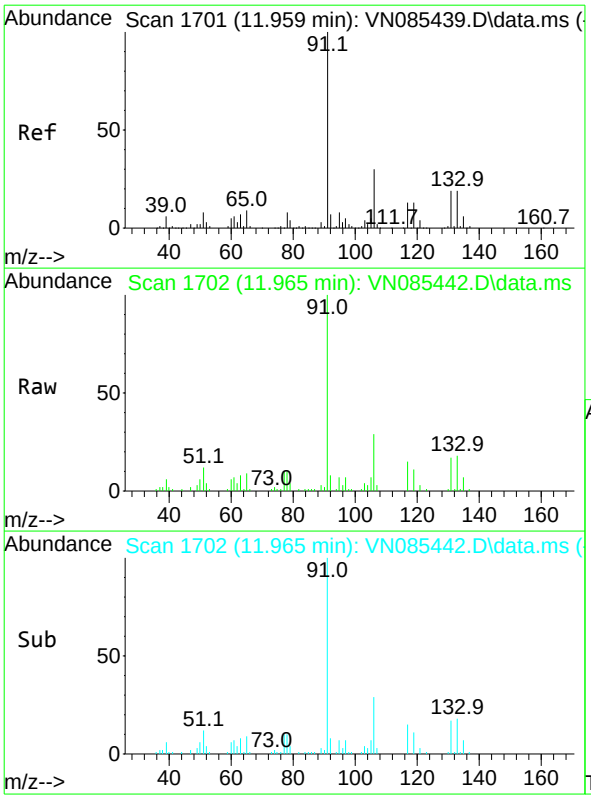


#66
1,1,1,2-Tetrachloroethane
Concen: 5.121 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion:131 Resp: 11620

Ion	Ratio	Lower	Upper
131	100		
133	92.7	47.4	142.3
119	65.0	33.1	99.5

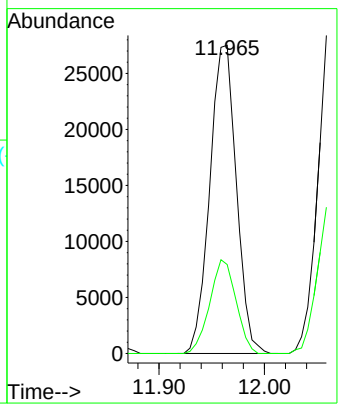




#67
Ethyl Benzene
Concen: 4.789 ug/l
RT: 11.965 min Scan# 17
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 91 Resp: 48216

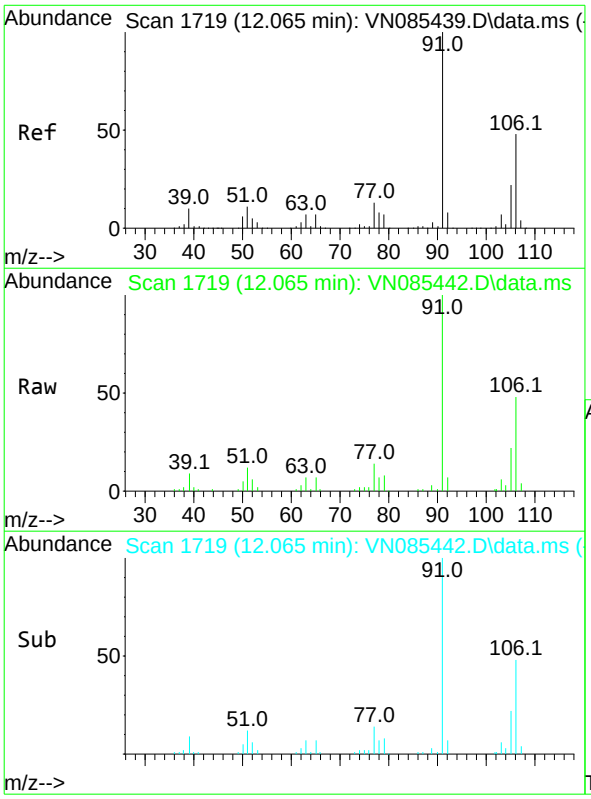
Ion	Ratio	Lower	Upper
91	100		
106	28.9	23.8	35.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

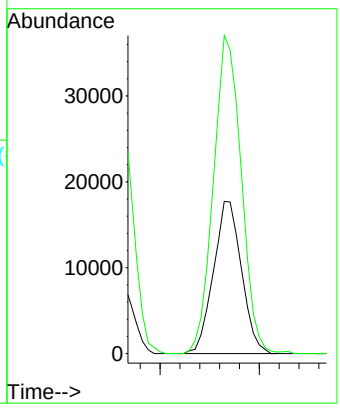
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

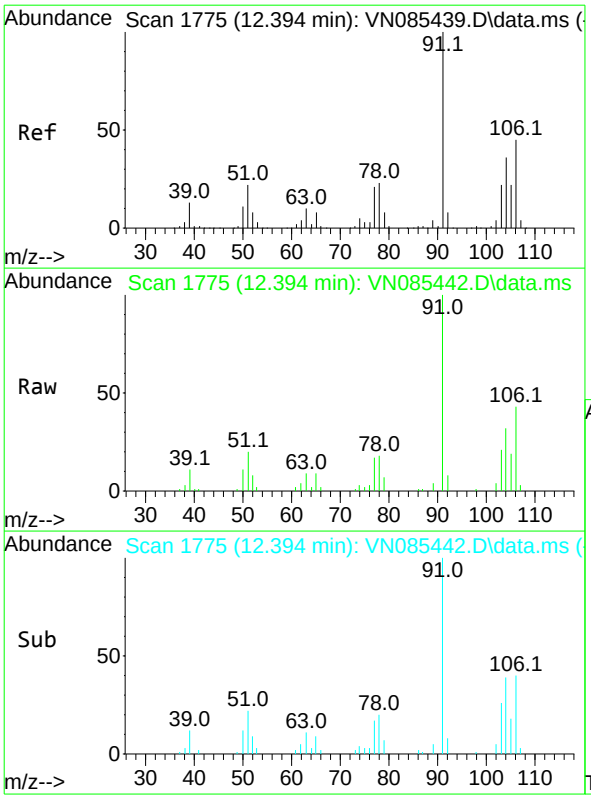


#68
m/p-Xylenes
Concen: 9.344 ug/l
RT: 12.065 min Scan# 1719
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion:106 Resp: 34771

Ion	Ratio	Lower	Upper
106	100		
91	207.9	167.7	251.5

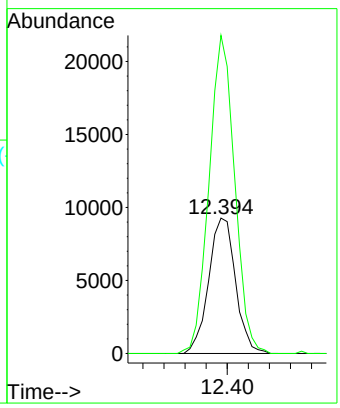




#69
o-Xylene
Concen: 4.617 ug/l
RT: 12.394 min Scan# 17
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion:106 Resp: 16419

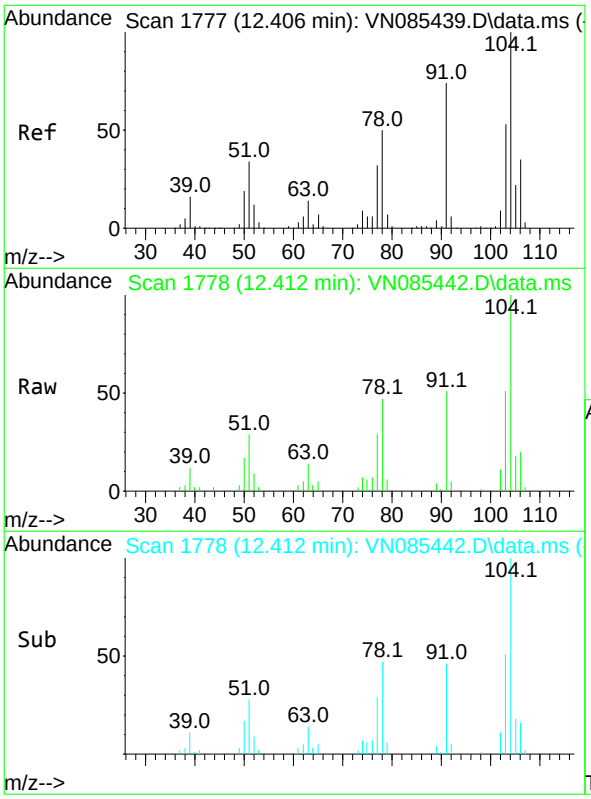
Ion	Ratio	Lower	Upper
106	100		
91	224.0	110.4	331.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

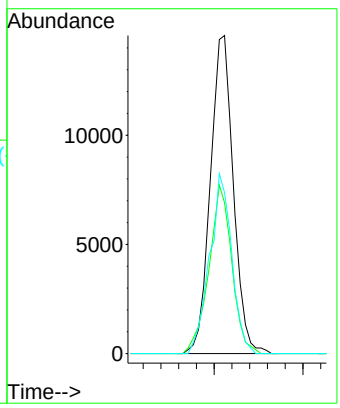
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

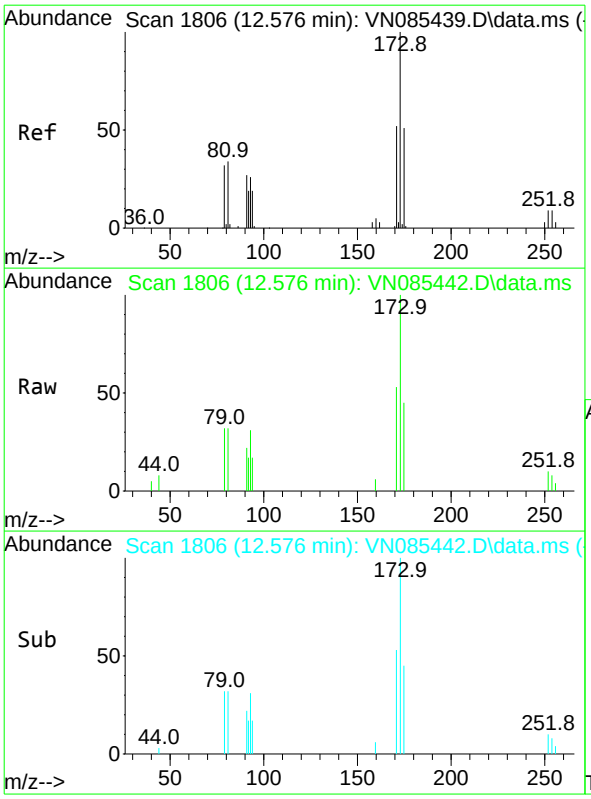


#70
Styrene
Concen: 4.454 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion:104 Resp: 26218

Ion	Ratio	Lower	Upper
104	100		
78	52.6	42.5	63.7
103	54.2	43.8	65.8

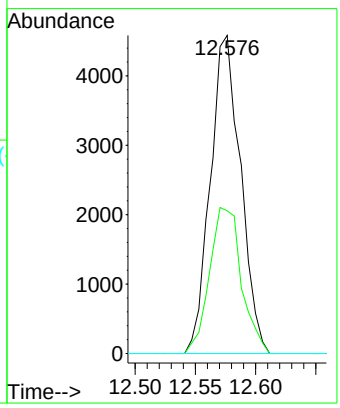




#71
Bromoform
Concen: 4.938 ug/l
RT: 12.576 min Scan# 18
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion:173 Resp: 8017

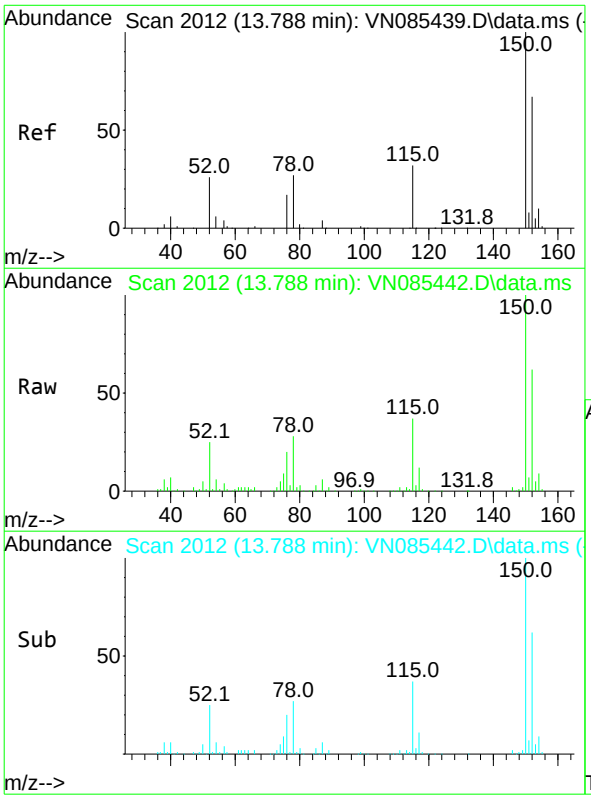
Ion	Ratio	Lower	Upper
173	100		
175	48.3	24.4	73.2
254	0.0	0.0	0.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

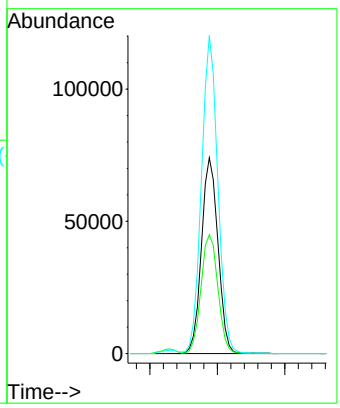
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

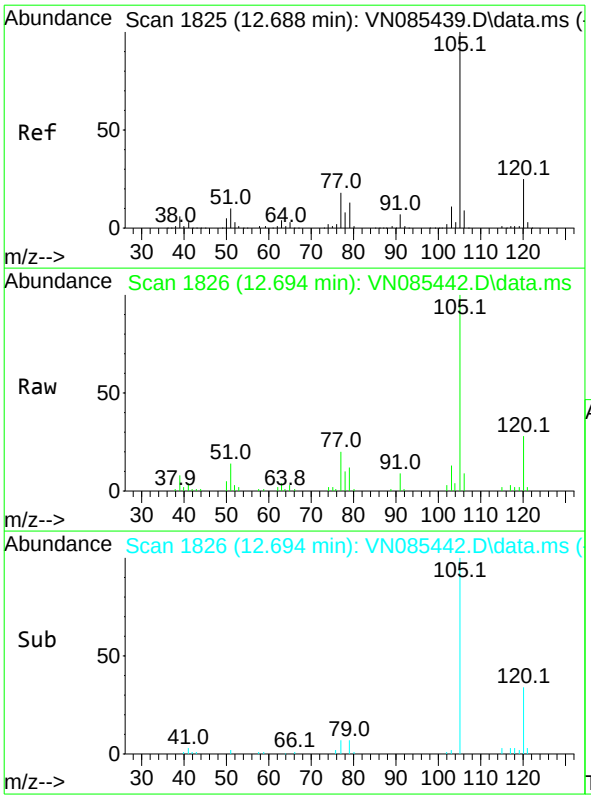


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion:152 Resp: 126086

Ion	Ratio	Lower	Upper
152	100		
115	62.0	31.1	93.3
150	160.7	0.0	343.6

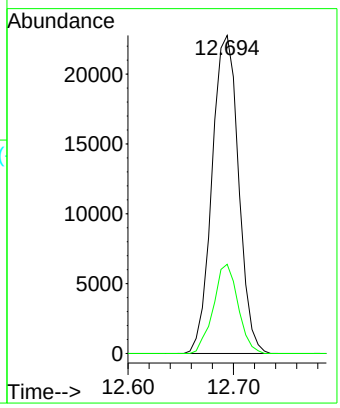




#73
Isopropylbenzene
Concen: 4.678 ug/l
RT: 12.694 min Scan# 18
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion:105 Resp: 39811

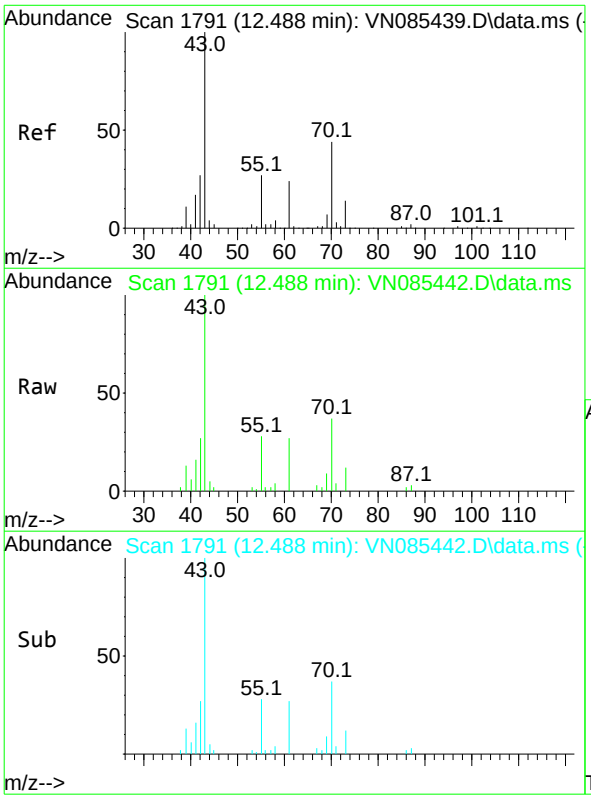
Ion	Ratio	Lower	Upper
105	100		
120	26.1	12.8	38.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

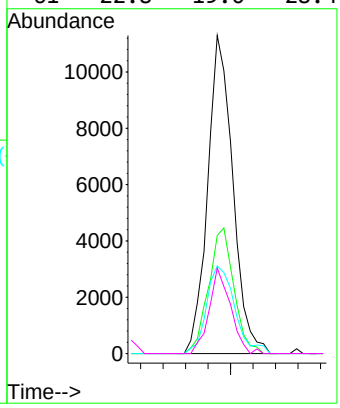
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

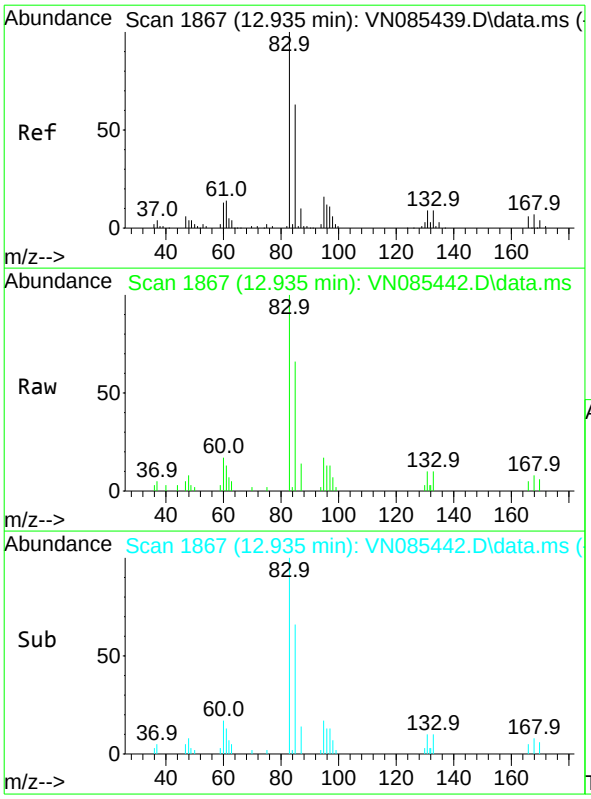


#74
N-amyl acetate
Concen: 4.595 ug/l
RT: 12.488 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 43 Resp: 17577

Ion	Ratio	Lower	Upper
43	100		
70	39.5	34.0	51.0
55	30.8	21.4	32.2
61	22.8	19.0	28.4

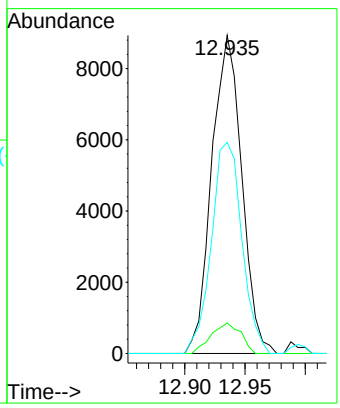




#75
1,1,2,2-Tetrachloroethane
Concen: 5.151 ug/l
RT: 12.935 min Scan# 18
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 83 Resp: 15483

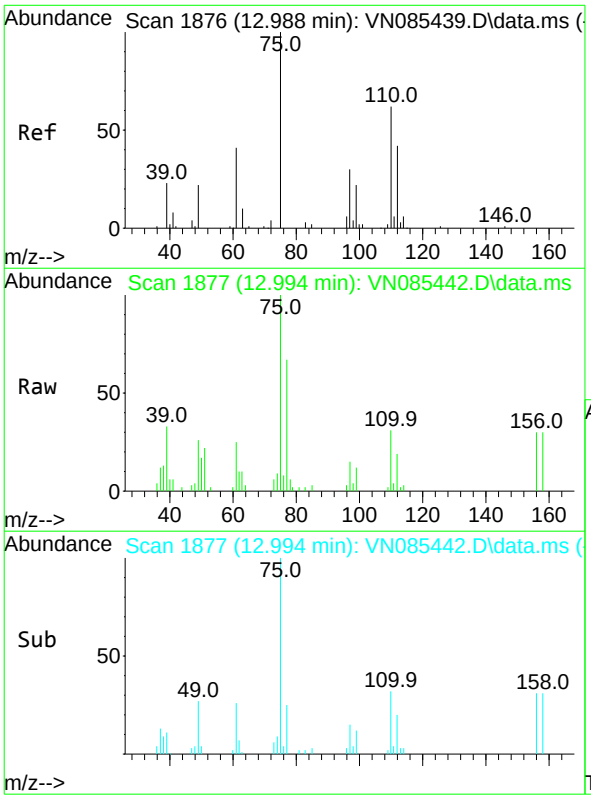
Ion	Ratio	Lower	Upper
83	100		
131	9.5	4.8	14.4
85	67.5	32.2	96.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

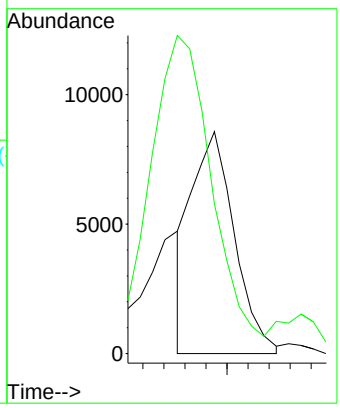
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

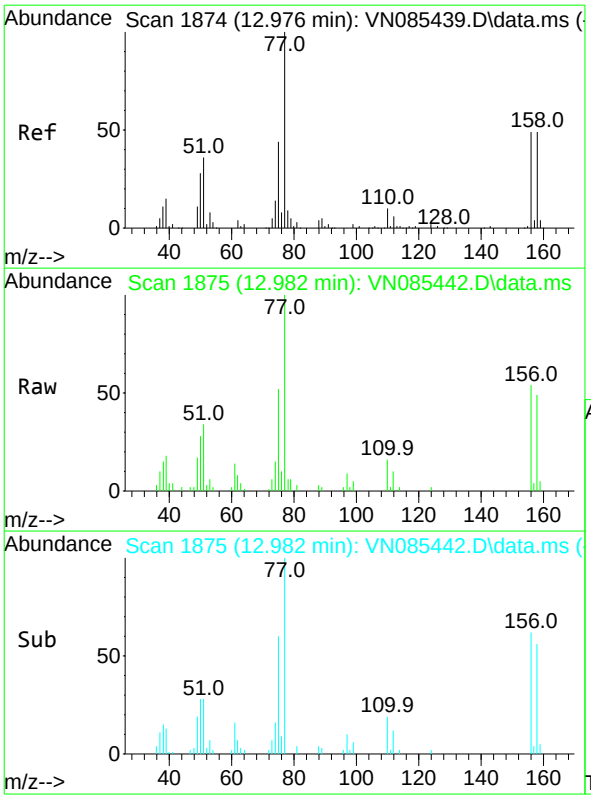


#76
1,2,3-Trichloropropane
Concen: 4.758 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 75 Resp: 12173

Ion	Ratio	Lower	Upper
75	100		
77	209.1	109.7	329.2

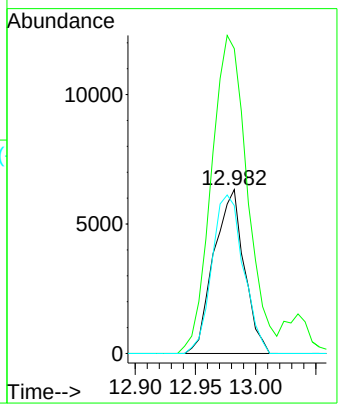




#77
Bromobenzene
Concen: 4.989 ug/l
RT: 12.982 min Scan# 18
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion:156 Resp: 11091

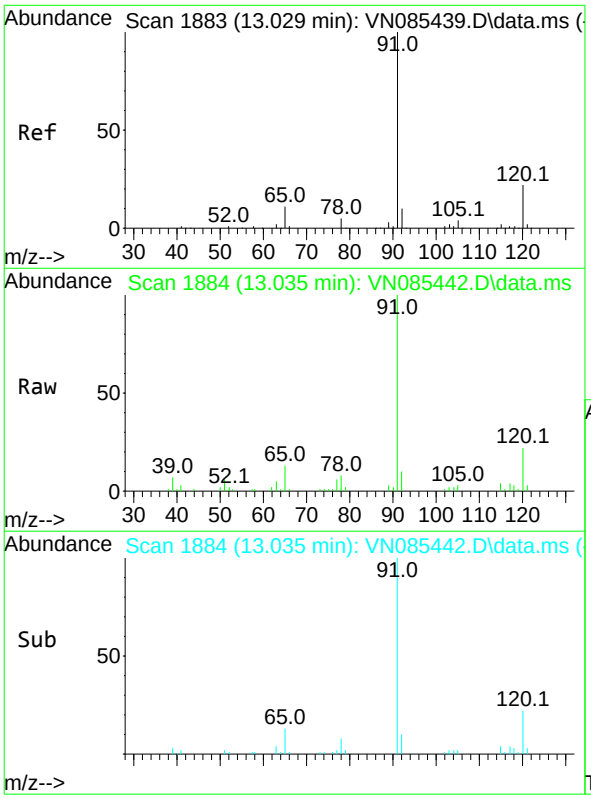
Ion	Ratio	Lower	Upper
156	100		
77	229.5	114.1	342.4
158	100.8	48.9	146.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

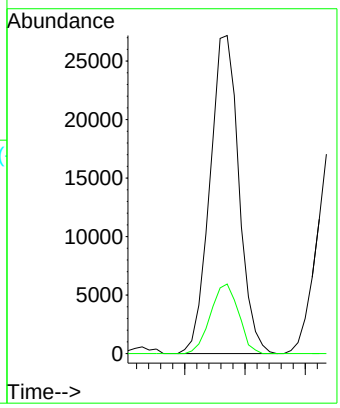
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

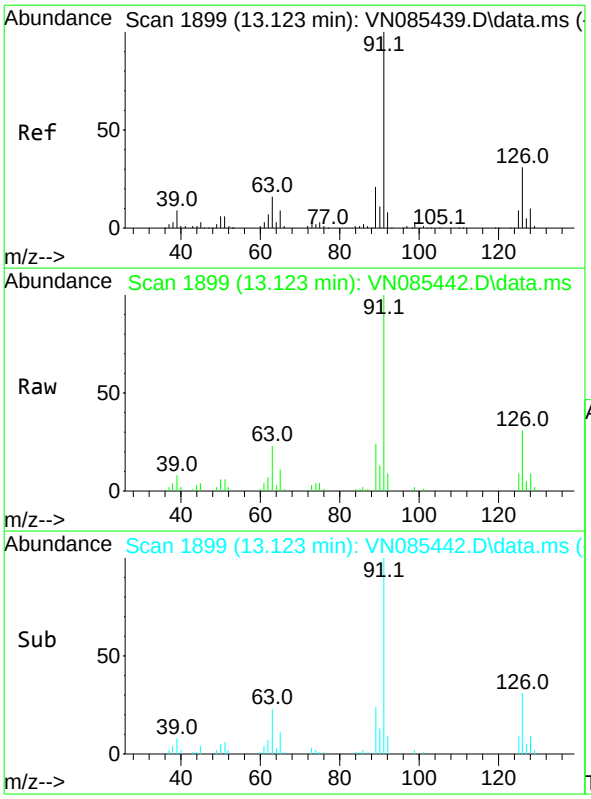


#78
n-propylbenzene
Concen: 4.512 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 91 Resp: 45450

Ion	Ratio	Lower	Upper
91	100		
120	21.1	10.9	32.6

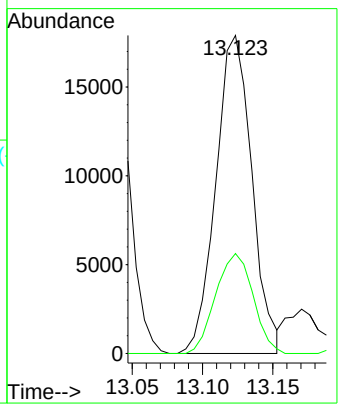




#79
2-Chlorotoluene
Concen: 4.898 ug/l
RT: 13.123 min Scan# 18
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 91 Resp: 31932

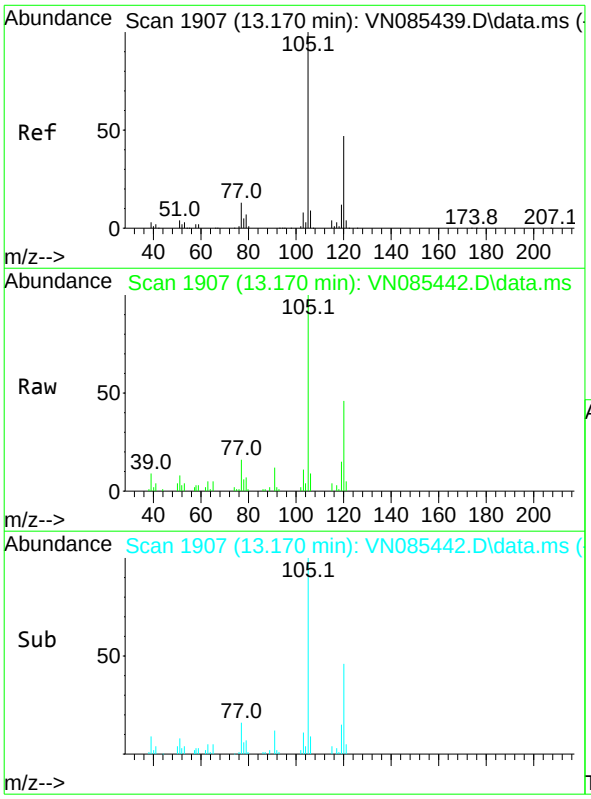
Ion	Ratio	Lower	Upper
91	100		
126	32.6	15.7	47.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

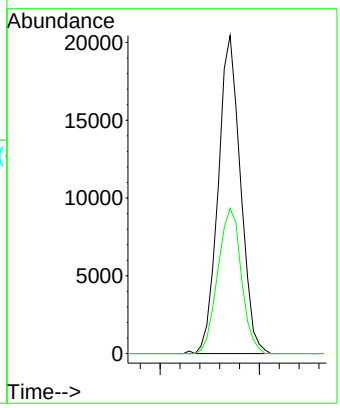
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

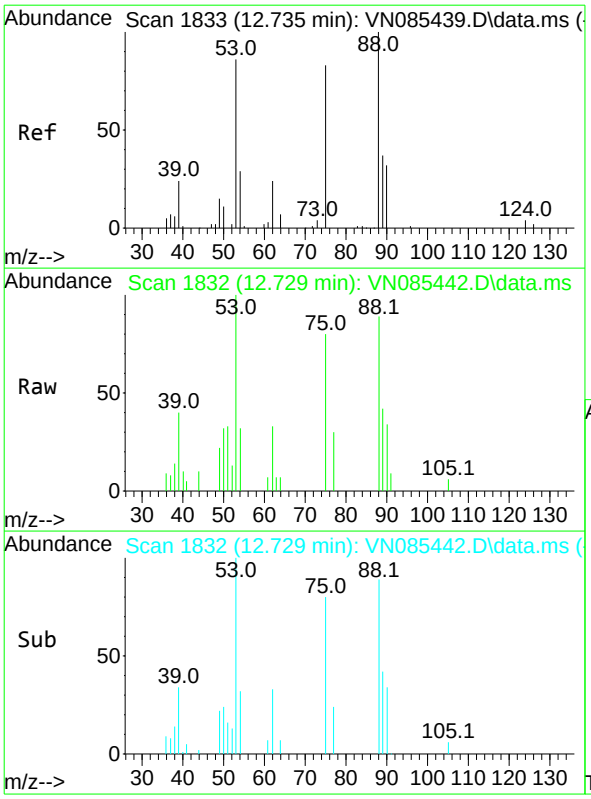


#80
1,3,5-Trimethylbenzene
Concen: 4.537 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion:105 Resp: 31891

Ion	Ratio	Lower	Upper
105	100		
120	48.1	23.9	71.7

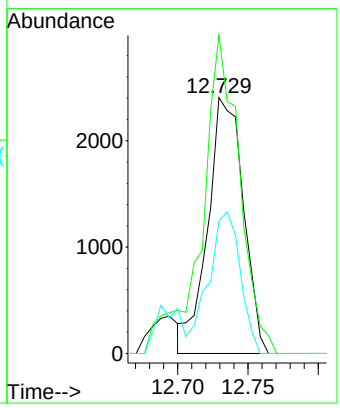




#81
trans-1,4-Dichloro-2-butene
Concen: 4.465 ug/l
RT: 12.729 min Scan# 18
Delta R.T. -0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 75 Resp: 4229

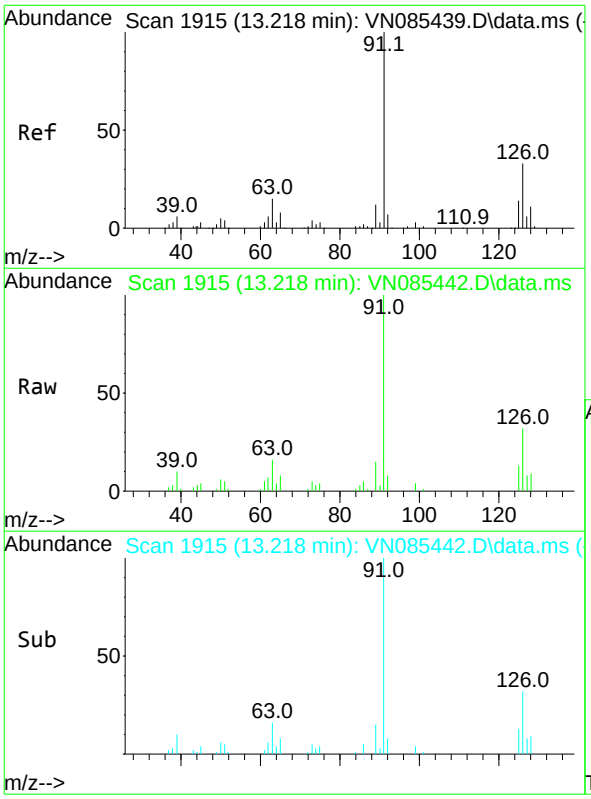
Ion	Ratio	Lower	Upper
75	100		
53	132.6	95.6	143.4
89	49.7	37.0	55.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

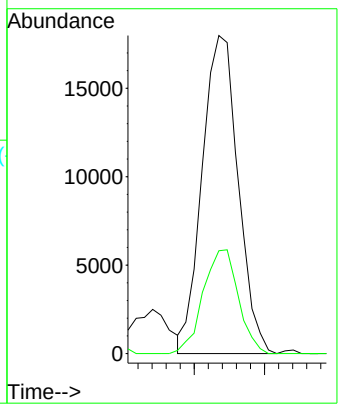
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

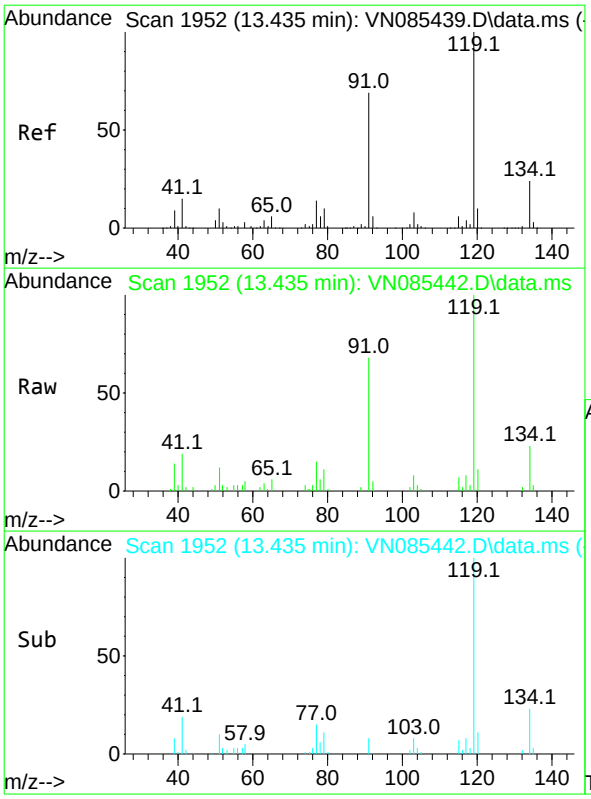


#82
4-Chlorotoluene
Concen: 4.926 ug/l
RT: 13.218 min Scan# 1915
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 91 Resp: 31976

Ion	Ratio	Lower	Upper
91	100		
126	31.9	15.9	47.7

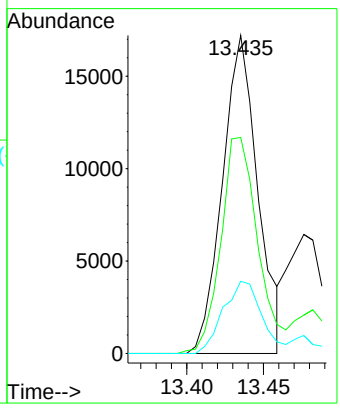




#83
tert-Butylbenzene
Concen: 4.675 ug/l
RT: 13.435 min Scan# 19
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion:119 Resp: 27597

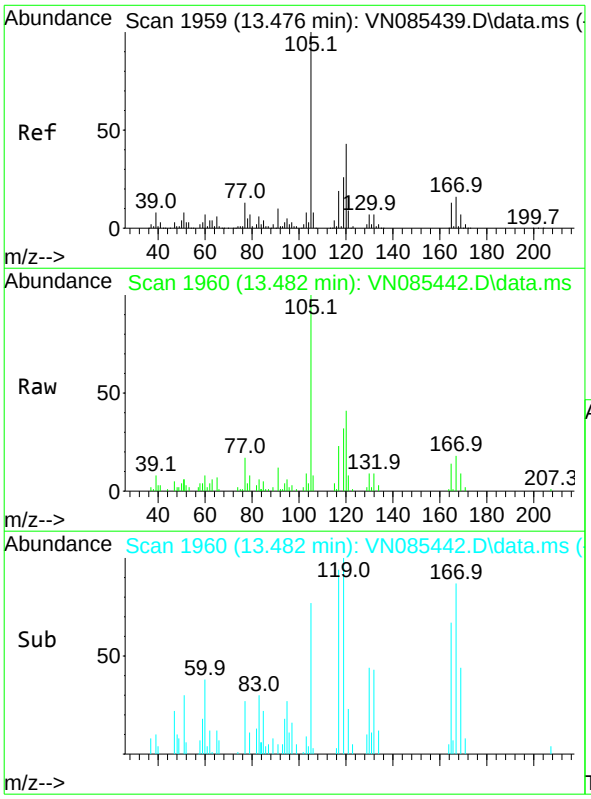
Ion	Ratio	Lower	Upper
119	100		
91	71.1	35.1	105.3
134	24.8	12.0	36.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

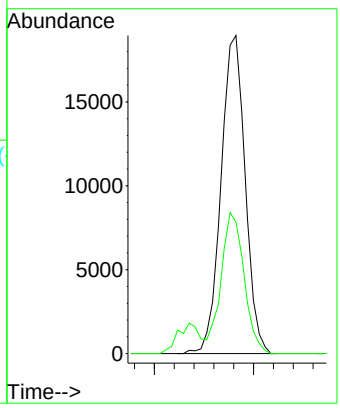
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

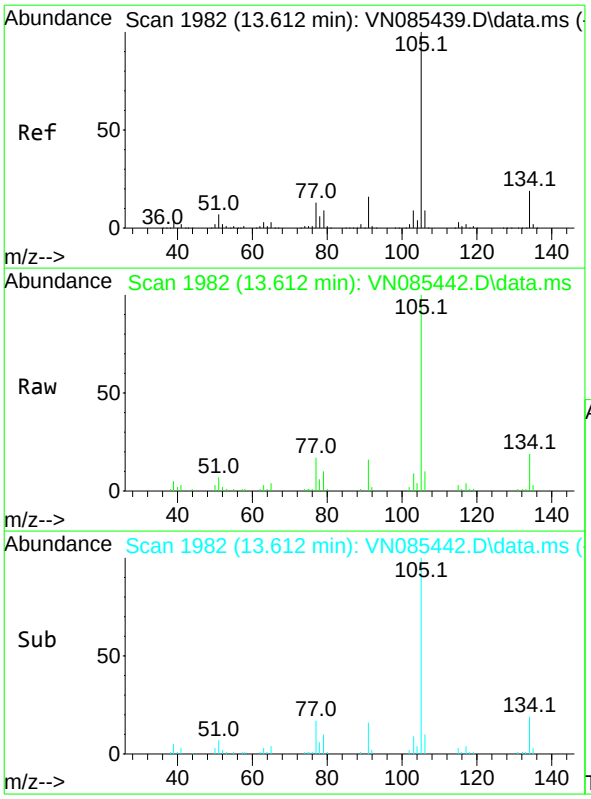


#84
1,2,4-Trimethylbenzene
Concen: 4.575 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion:105 Resp: 32054

Ion	Ratio	Lower	Upper
105	100		
120	42.0	21.6	65.0

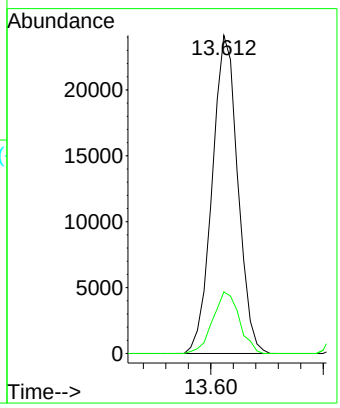




#85
sec-Butylbenzene
Concen: 4.663 ug/l
RT: 13.612 min Scan# 19
Delta R.T. -0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion:105 Resp: 38148

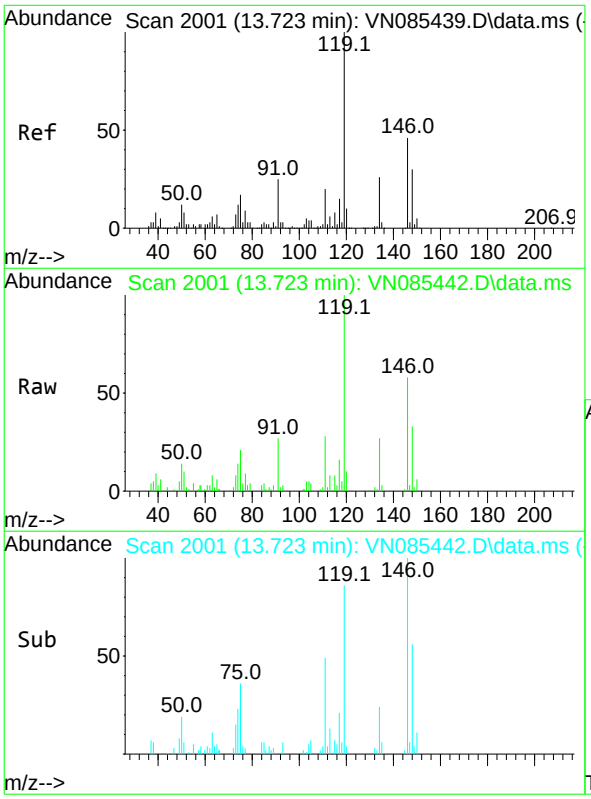
Ion	Ratio	Lower	Upper
105	100		
134	20.1	9.7	28.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

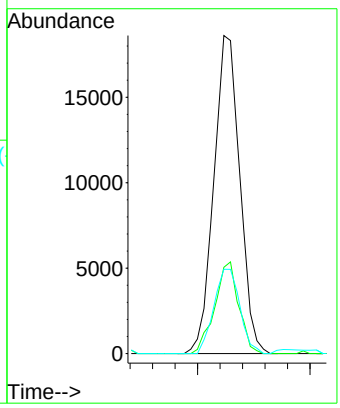
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

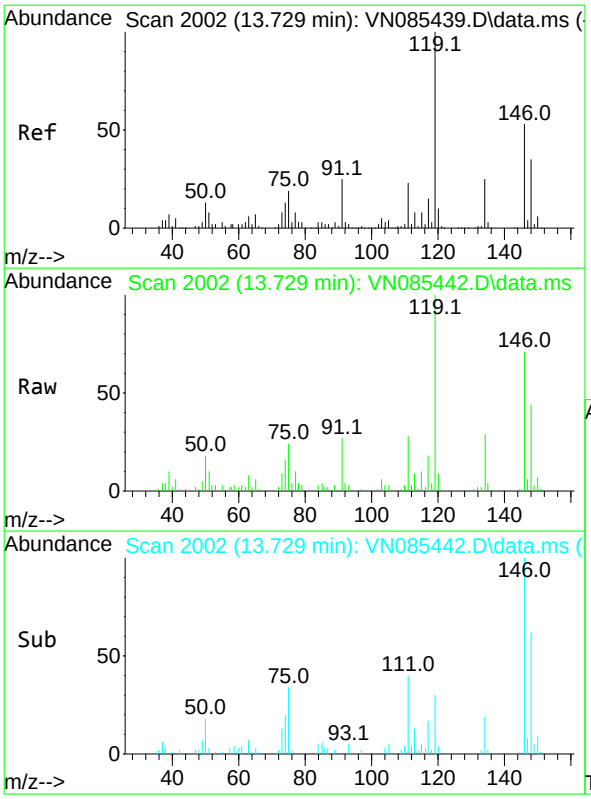


#86
p-Isopropyltoluene
Concen: 4.584 ug/l
RT: 13.723 min Scan# 2001
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion:119 Resp: 29856

Ion	Ratio	Lower	Upper
119	100		
134	26.5	12.7	38.0
91	26.5	12.7	38.1

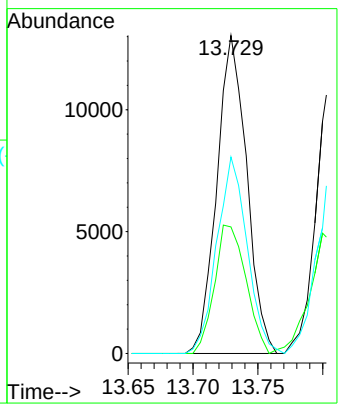




#87
1,3-Dichlorobenzene
Concen: 5.099 ug/l
RT: 13.729 min Scan# 20
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion:146 Resp: 20876

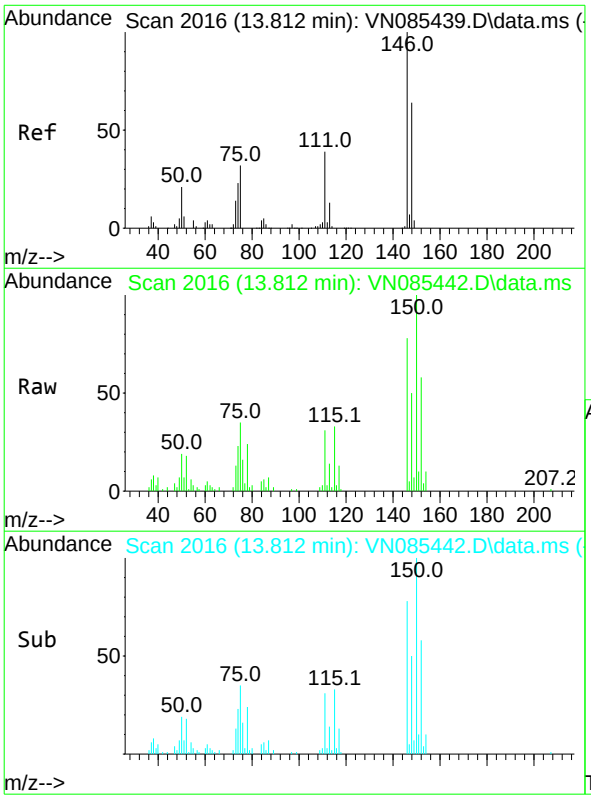
Ion	Ratio	Lower	Upper
146	100		
111	42.3	21.4	64.3
148	62.7	32.3	96.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

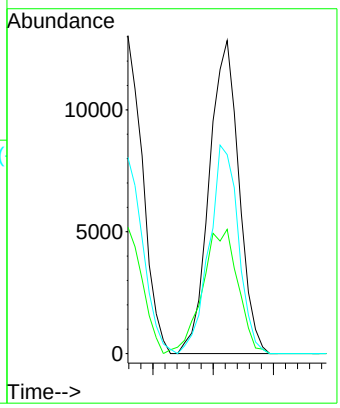
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

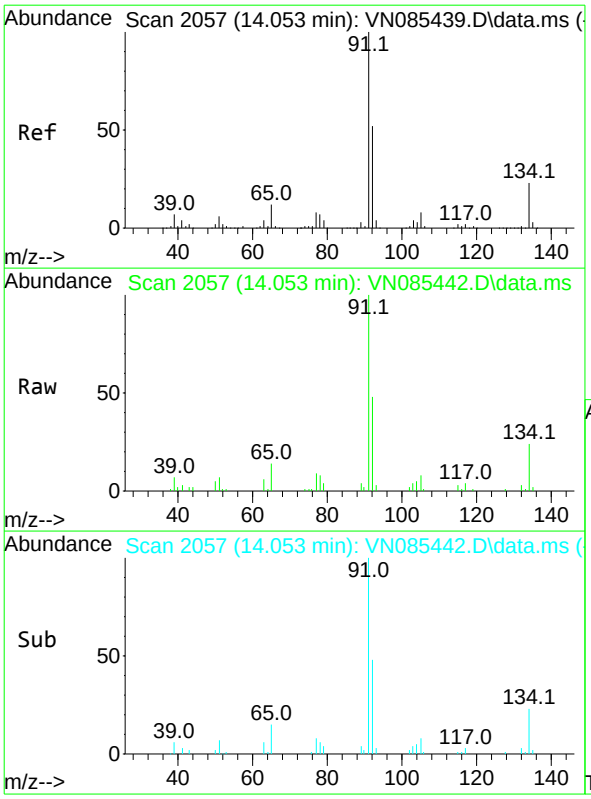


#88
1,4-Dichlorobenzene
Concen: 5.179 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion:146 Resp: 21982

Ion	Ratio	Lower	Upper
146	100		
111	47.1	21.3	63.7
148	65.5	32.4	97.0

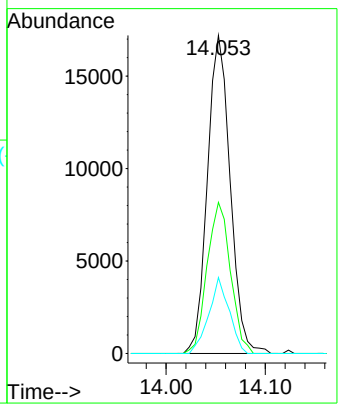




#89
n-Butylbenzene
Concen: 4.675 ug/l
RT: 14.053 min Scan# 20
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 91 Resp: 27437

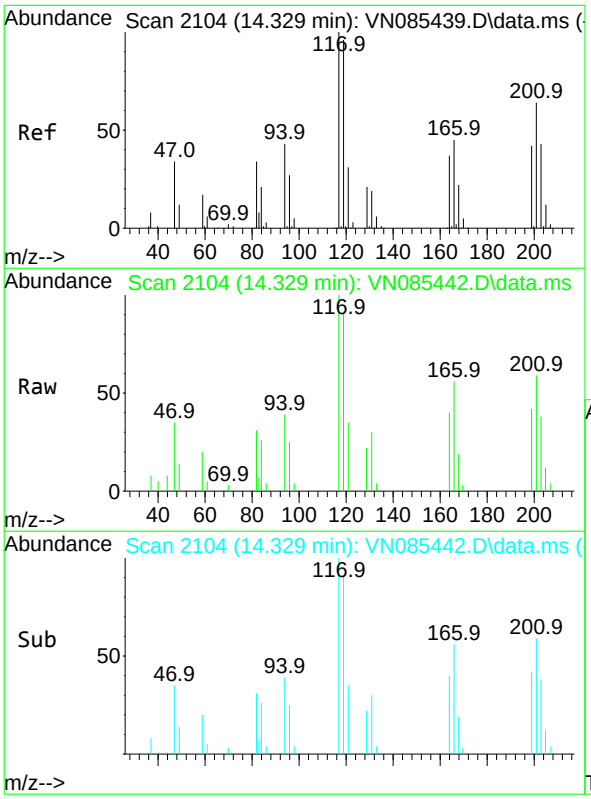
Ion	Ratio	Lower	Upper
91	100		
92	48.7	25.8	77.3
134	21.4	11.7	35.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

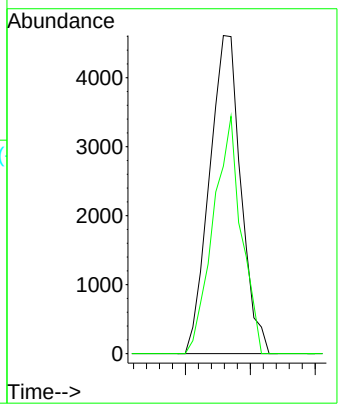
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

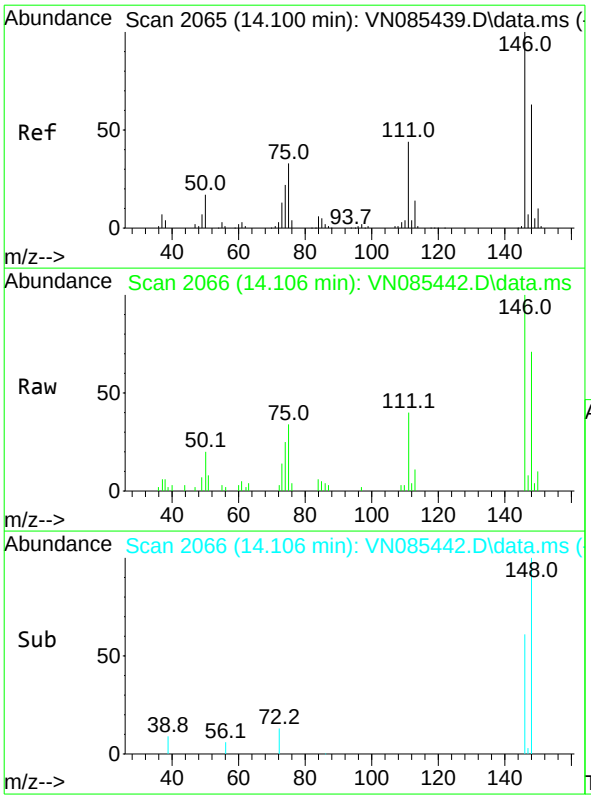


#90
Hexachloroethane
Concen: 4.987 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion:117 Resp: 7767

Ion	Ratio	Lower	Upper
117	100		
201	66.9	33.7	101.0

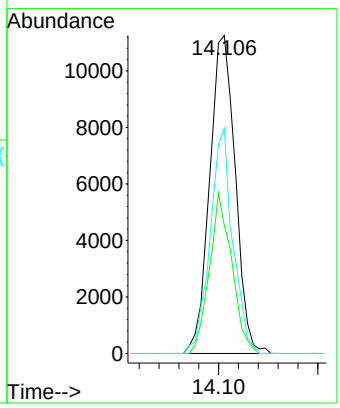




#91
1,2-Dichlorobenzene
Concen: 4.940 ug/l
RT: 14.106 min Scan# 20
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion:146 Resp: 20177

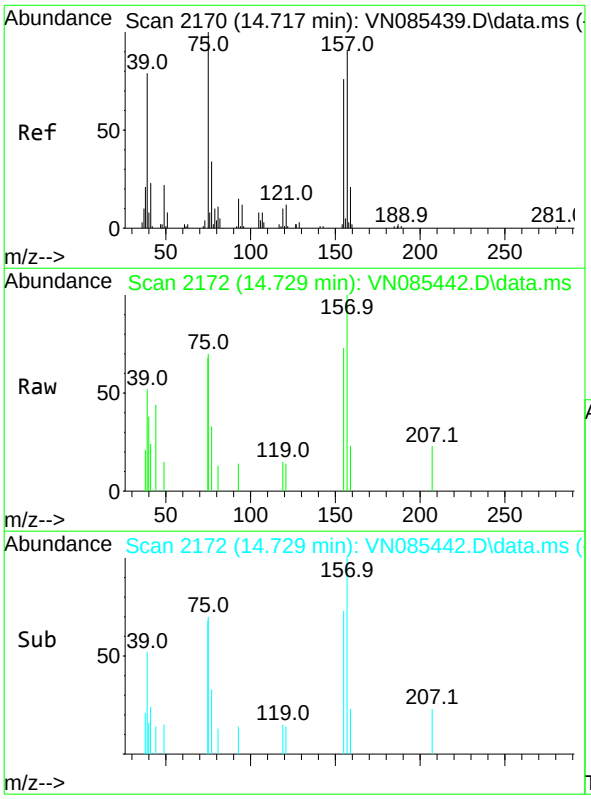
Ion	Ratio	Lower	Upper
146	100		
111	44.0	21.7	65.1
148	62.8	31.4	94.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

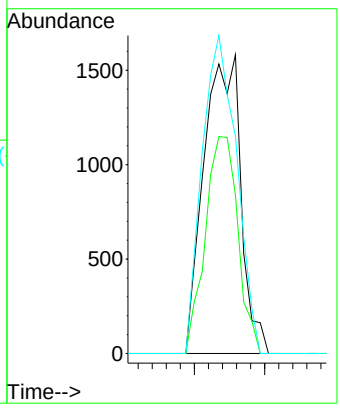
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

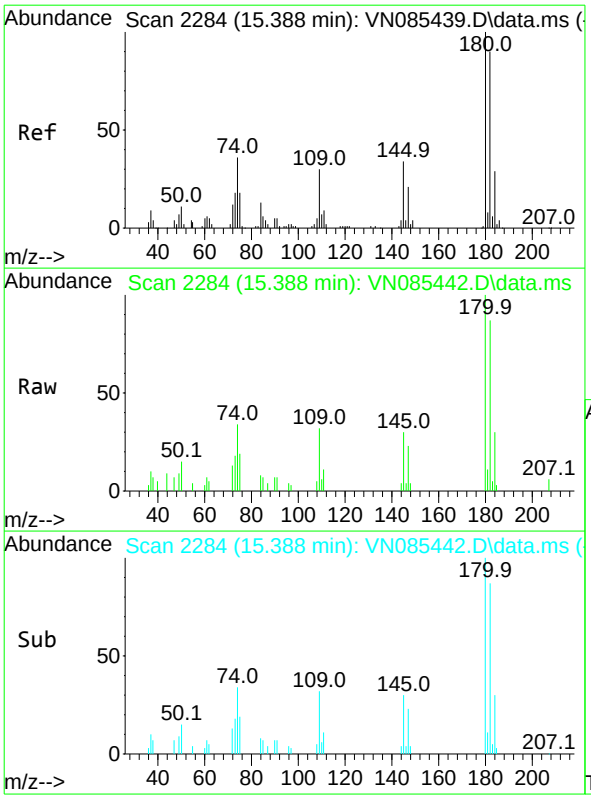


#92
1,2-Dibromo-3-Chloropropane
Concen: 5.232 ug/l
RT: 14.729 min Scan# 2172
Delta R.T. 0.012 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 75 Resp: 2872

Ion	Ratio	Lower	Upper
75	100		
155	64.2	36.4	109.2
157	99.8	45.4	136.1

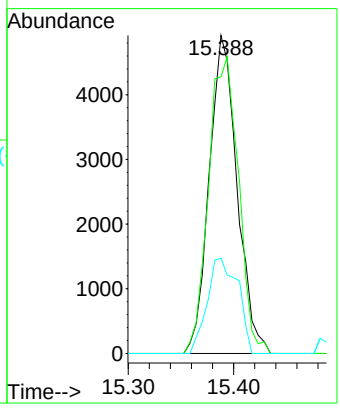




#93
1,2,4-Trichlorobenzene
Concen: 4.761 ug/l
RT: 15.388 min Scan# 22
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion:180 Resp: 9037

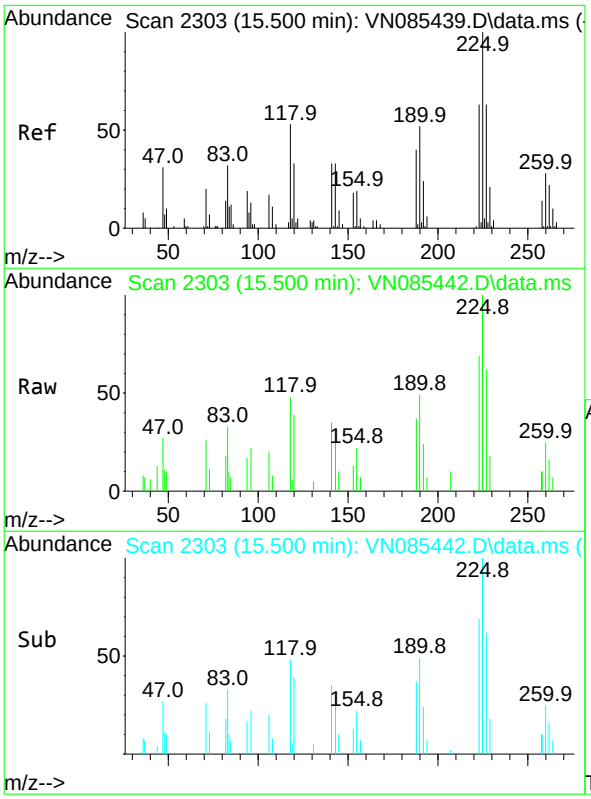
Ion	Ratio	Lower	Upper
180	100		
182	100.5	46.8	140.3
145	33.0	16.0	48.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

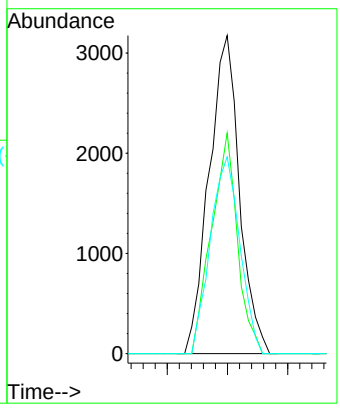
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

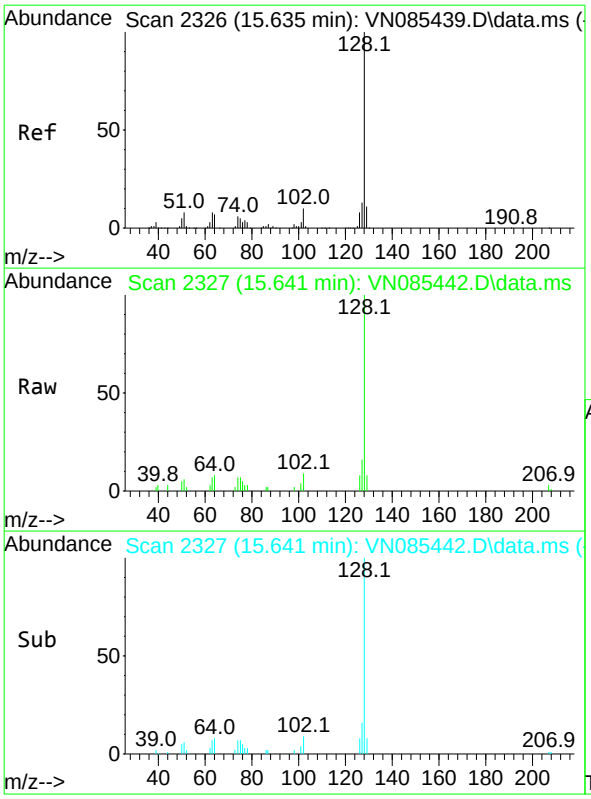


#94
Hexachlorobutadiene
Concen: 5.520 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion:225 Resp: 5563

Ion	Ratio	Lower	Upper
225	100		
223	59.2	30.7	92.1
227	60.1	30.9	92.5

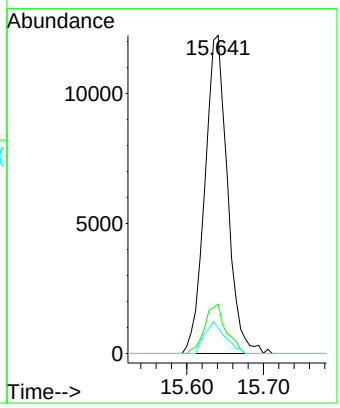




#95
Naphthalene
Concen: 4.422 ug/l
RT: 15.641 min Scan# 23
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion:128 Resp: 25047

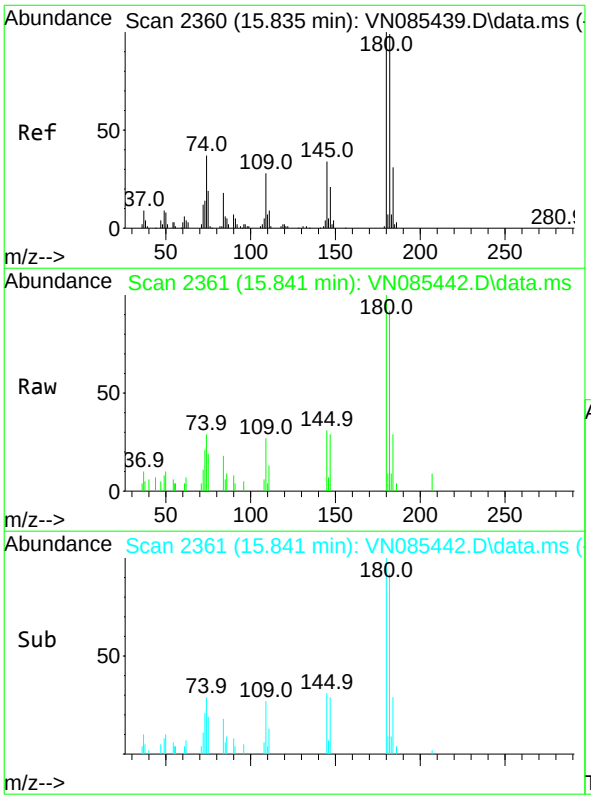
Ion	Ratio	Lower	Upper
128	100		
127	14.7	10.6	16.0
129	9.1	8.8	13.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

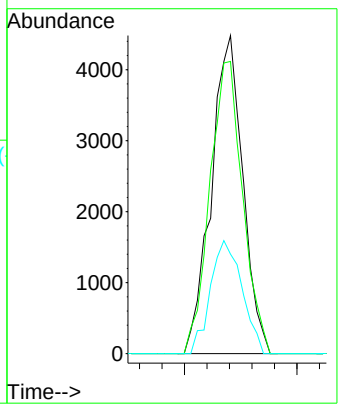
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#96
1,2,3-Trichlorobenzene
Concen: 4.549 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion:180 Resp: 8737

Ion	Ratio	Lower	Upper
180	100		
182	95.6	47.4	142.2
145	35.5	16.9	50.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085443.D
Acq On : 14 Jan 2025 17:19
Operator : JC\MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 15 01:46:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	8.224	168	166880	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	9.100	114	302938	50.000	ug/l		0.00
63) Chlorobenzene-d5	11.865	117	256851	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	99539	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	2.124	85	2382	1.054	ug/l		91
3) Chloromethane	2.359	50	2801	1.145	ug/l		93
4) Vinyl Chloride	2.512	62	2732	1.111	ug/l	#	81
6) Chloroethane	3.124	64	1809	1.160	ug/l		94
7) Trichlorofluoromethane	3.512	101	3860	1.082	ug/l		88
8) Diethyl Ether	3.953	74	1526	1.238	ug/l		81
9) 1,1,2-Trichlorotrifluo...	4.359	101	2156m	1.073	ug/l		
12) 1,1-Dichloroethene	4.330	96	1660	0.927	ug/l	#	67
14) Allyl chloride	5.024	41	3179	1.094	ug/l	#	85
15) Acrylonitrile	5.718	53	4967	5.070	ug/l	#	70
16) Acetone	4.436	43	5102	5.862	ug/l		92
17) Carbon Disulfide	4.706	76	6601	1.197	ug/l	#	87
18) Methyl Acetate	5.030	43	2908	1.099	ug/l	#	80
19) Methyl tert-butyl Ether	5.789	73	5156	0.887	ug/l	#	87
20) Methylene Chloride	5.265	84	2190	1.016	ug/l	#	87
21) trans-1,2-Dichloroethene	5.794	96	2110	1.102	ug/l	#	66
22) Diisopropyl ether	6.677	45	5691	0.882	ug/l	#	88
23) Vinyl Acetate	6.606	43	18526m	4.090	ug/l		
24) 1,1-Dichloroethane	6.583	63	4020m	1.022	ug/l		
25) 2-Butanone	7.483	43	6448m	5.034	ug/l		
26) 2,2-Dichloropropane	7.488	77	3104	0.976	ug/l		92
27) cis-1,2-Dichloroethene	7.477	96	2185	0.969	ug/l		92
28) Bromochloromethane	7.812	49	2082	1.138	ug/l	#	89
29) Tetrahydrofuran	7.835	42	3693	4.548	ug/l		98
30) Chloroform	7.965	83	4250	1.045	ug/l	#	80
32) 1,1,1-Trichloroethane	8.165	97	3678	1.031	ug/l	#	56
36) 1,1-Dichloropropene	8.371	75	3084	1.046	ug/l	#	84
37) Ethyl Acetate	7.577	43	3056m	1.026	ug/l		
38) Carbon Tetrachloride	8.359	117	3436	1.018	ug/l		90
39) Methylcyclohexane	9.600	83	2403	0.867	ug/l	#	87
40) Benzene	8.606	78	8480	0.957	ug/l		91
41) Methacrylonitrile	7.771	41	1458	0.941	ug/l	#	76
42) 1,2-Dichloroethane	8.665	62	3131	0.938	ug/l		91
43) Isopropyl Acetate	8.682	43	4803	1.007	ug/l	#	87
44) Trichloroethene	9.347	130	2133	1.034	ug/l		71
45) 1,2-Dichloropropane	9.618	63	2246	0.992	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085443.D
Acq On : 14 Jan 2025 17:19
Operator : JC\MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 15 01:46:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
46) Dibromomethane	9.706	93	1769	1.083 ug/l		92
47) Bromodichloromethane	9.882	83	2935	0.882 ug/l		90
48) Methyl methacrylate	9.677	41	1886	0.878 ug/l		96
49) 1,4-Dioxane	9.688	88	673	18.616 ug/l	#	47
51) 4-Methyl-2-Pentanone	10.441	43	11523	4.163 ug/l		93
52) Toluene	10.618	92	4180	0.814 ug/l		93
53) t-1,3-Dichloropropene	10.835	75	2522	0.802 ug/l		92
54) cis-1,3-Dichloropropene	10.312	75	2725	0.811 ug/l	#	83
55) 1,1,2-Trichloroethane	11.018	97	1901	0.935 ug/l		91
56) Ethyl methacrylate	10.871	69	1923	2.471 ug/l	#	88
57) 1,3-Dichloropropane	11.165	76	3113	0.881 ug/l		95
58) 2-Chloroethyl Vinyl ether	10.153	63	4929	3.822 ug/l		91
59) 2-Hexanone	11.194	43	7905	4.058 ug/l		87
60) Dibromochloromethane	11.359	129	2339	0.953 ug/l		98
61) 1,2-Dibromoethane	11.465	107	2022	1.000 ug/l		90
64) Tetrachloroethene	11.106	164	1658	0.947 ug/l	#	83
65) Chlorobenzene	11.888	112	5401	0.960 ug/l		93
66) 1,1,1,2-Tetrachloroethane	11.959	131	2185	1.058 ug/l	#	64
67) Ethyl Benzene	11.959	91	7347	0.802 ug/l		94
68) m/p-Xylenes	12.070	106	5059	1.494 ug/l		100
69) o-Xylene	12.394	106	2478	0.766 ug/l		97
70) Styrene	12.406	104	3812	0.712 ug/l		99
71) Bromoform	12.582	173	1208	0.818 ug/l	#	88
73) Isopropylbenzene	12.688	105	5506	0.820 ug/l		98
74) N-amyl acetate	12.494	43	2716	0.899 ug/l	#	87
75) 1,1,2,2-Tetrachloroethane	12.935	83	2616	1.102 ug/l	#	96
76) 1,2,3-Trichloropropane	12.982	75	2198m	1.088 ug/l		
77) Bromobenzene	12.976	156	1733	0.987 ug/l		97
78) n-propylbenzene	13.029	91	6424	0.808 ug/l		93
79) 2-Chlorotoluene	13.117	91	4483	0.871 ug/l		97
80) 1,3,5-Trimethylbenzene	13.165	105	4301	0.775 ug/l		90
82) 4-Chlorotoluene	13.223	91	4268	0.833 ug/l		99
83) tert-Butylbenzene	13.435	119	3753	0.805 ug/l		96
84) 1,2,4-Trimethylbenzene	13.482	105	3758	0.679 ug/l		93
85) sec-Butylbenzene	13.612	105	4614	0.714 ug/l		99
86) p-Isopropyltoluene	13.723	119	3538	0.716 ug/l		98
87) 1,3-Dichlorobenzene	13.723	146	3038	0.940 ug/l		95
88) 1,4-Dichlorobenzene	13.806	146	3517m	1.050 ug/l		
89) n-Butylbenzene	14.053	91	3527	0.761 ug/l		93
90) Hexachloroethane	14.341	117	1355	1.102 ug/l		99
91) 1,2-Dichlorobenzene	14.106	146	3515	1.090 ug/l		96
92) 1,2-Dibromo-3-Chloropr...	14.711	75	402	0.928 ug/l		74
93) 1,2,4-Trichlorobenzene	15.394	180	1310	0.874 ug/l	#	80
94) Hexachlorobutadiene	15.500	225	822	1.033 ug/l		89
95) Naphthalene	15.641	128	4210	0.941 ug/l	#	90
96) 1,2,3-Trichlorobenzene	15.835	180	1494	0.985 ug/l	#	86

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

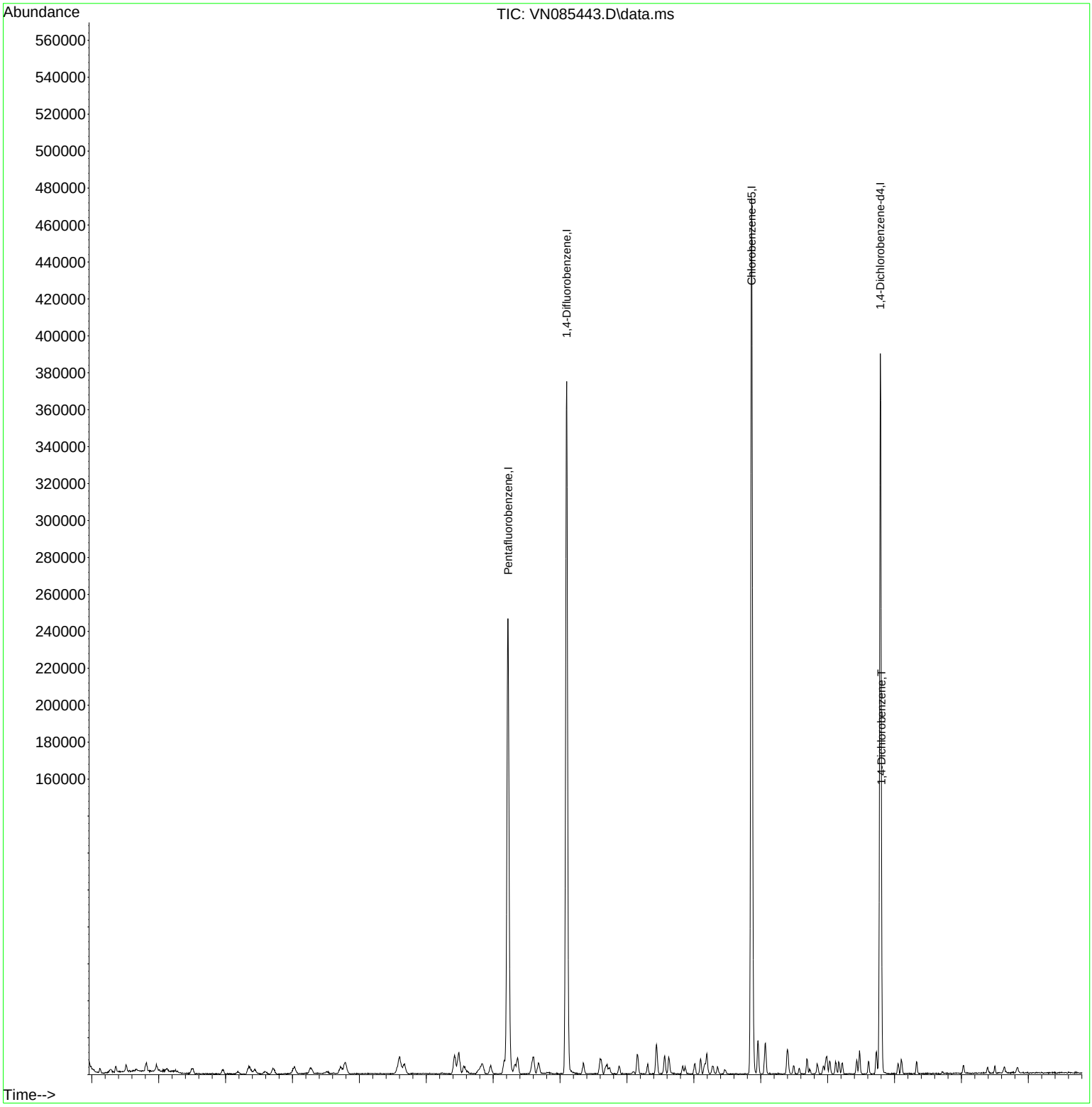
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085443.D
Acq On : 14 Jan 2025 17:19
Operator : JC\MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

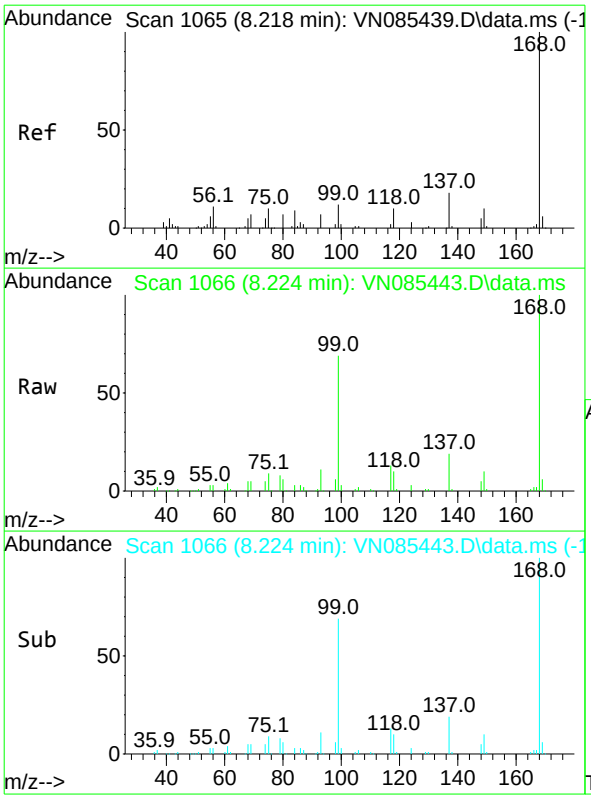
Quant Time: Jan 15 01:46:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

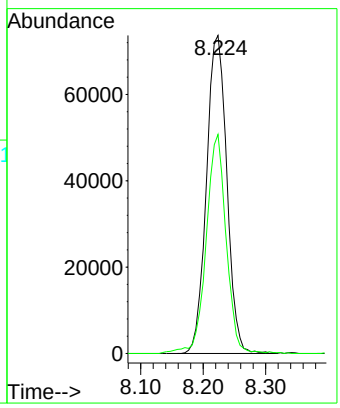




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion:168 Resp: 166880

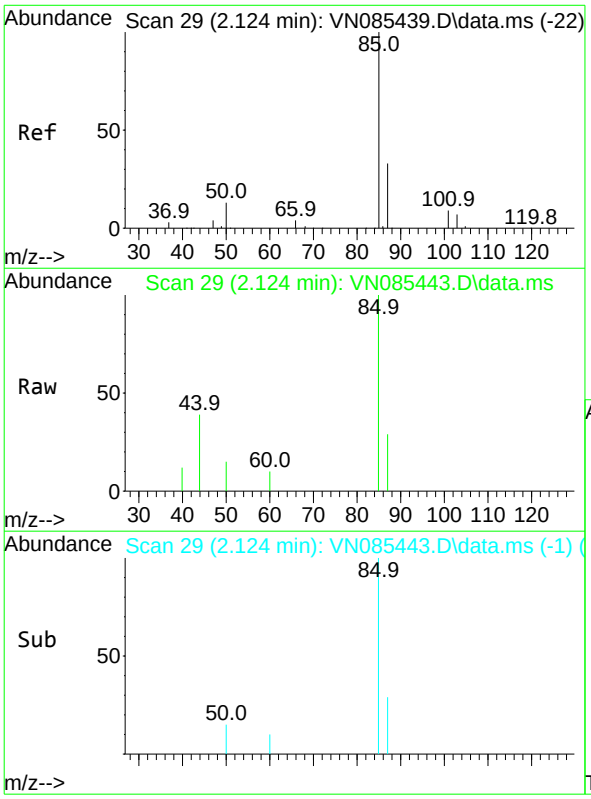
Ion	Ratio	Lower	Upper
168	100		
99	68.6	53.6	80.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

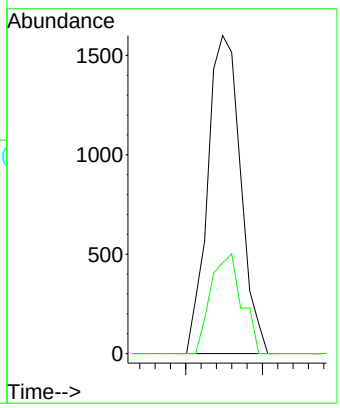
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

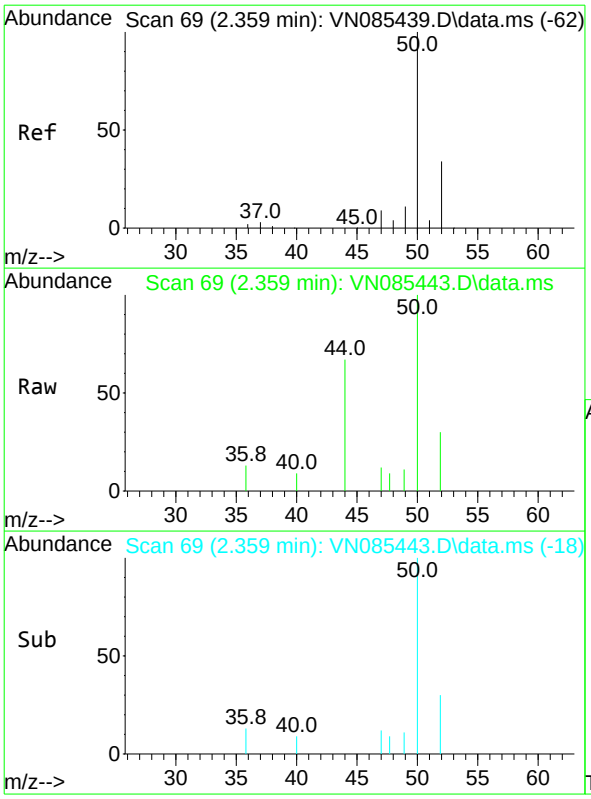


#2
Dichlorodifluoromethane
Concen: 1.054 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 85 Resp: 2382

Ion	Ratio	Lower	Upper
85	100		
87	28.5	16.7	50.1

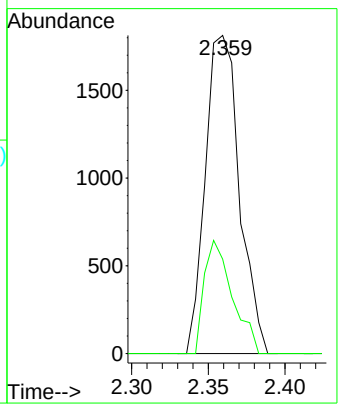




#3
Chloromethane
Concen: 1.145 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 50 Resp: 2801

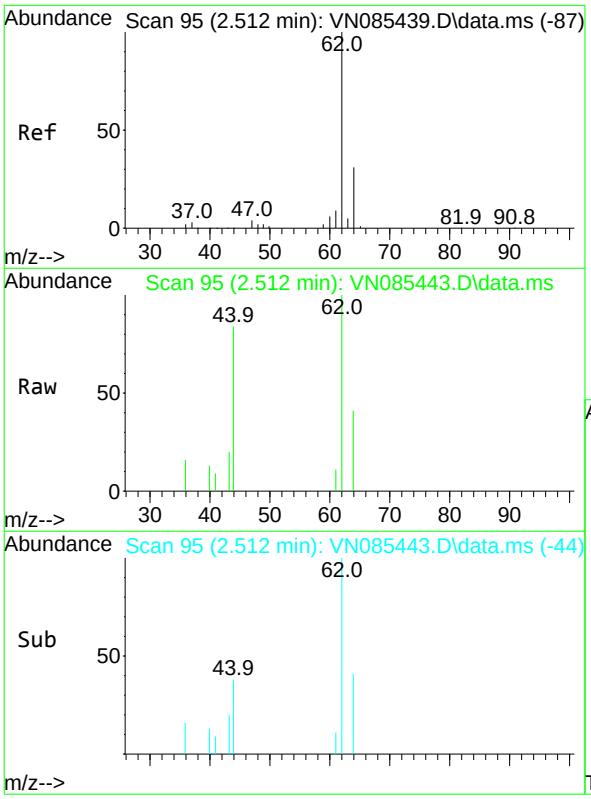
Ion	Ratio	Lower	Upper
50	100		
52	29.7	27.0	40.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

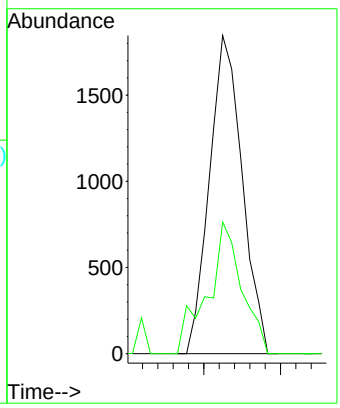
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

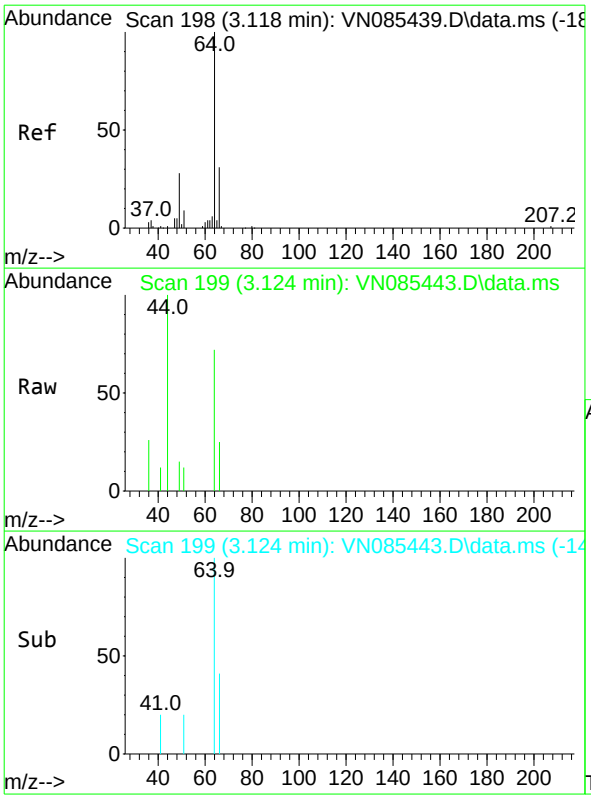


#4
Vinyl Chloride
Concen: 1.111 ug/l
RT: 2.512 min Scan# 95
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 62 Resp: 2732

Ion	Ratio	Lower	Upper
62	100		
64	41.4	24.8	37.2#

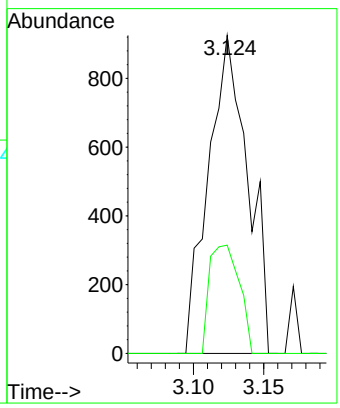




#6
Chloroethane
Concen: 1.160 ug/l
RT: 3.124 min Scan# 19
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 64 Resp: 1809

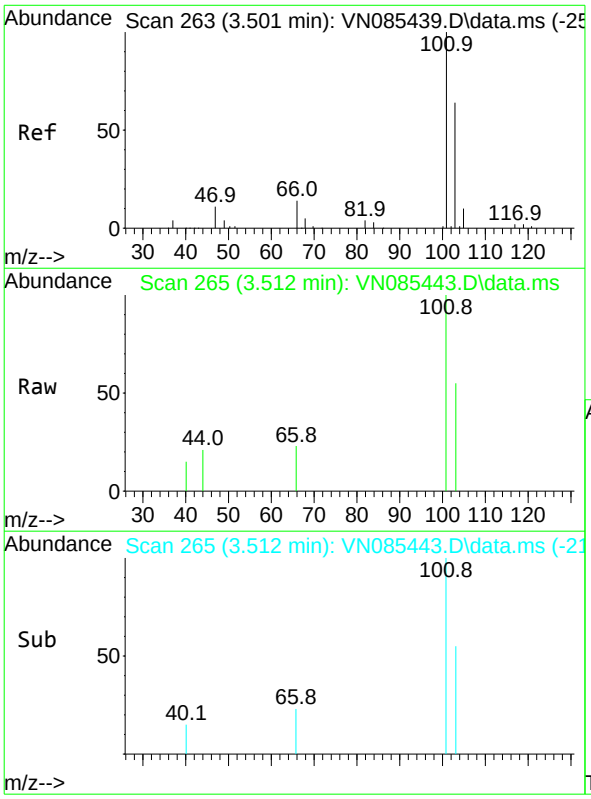
Ion	Ratio	Lower	Upper
64	100		
66	34.1	24.6	36.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

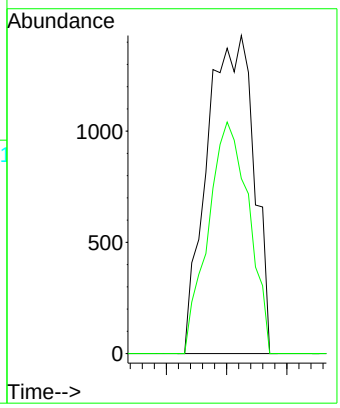
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

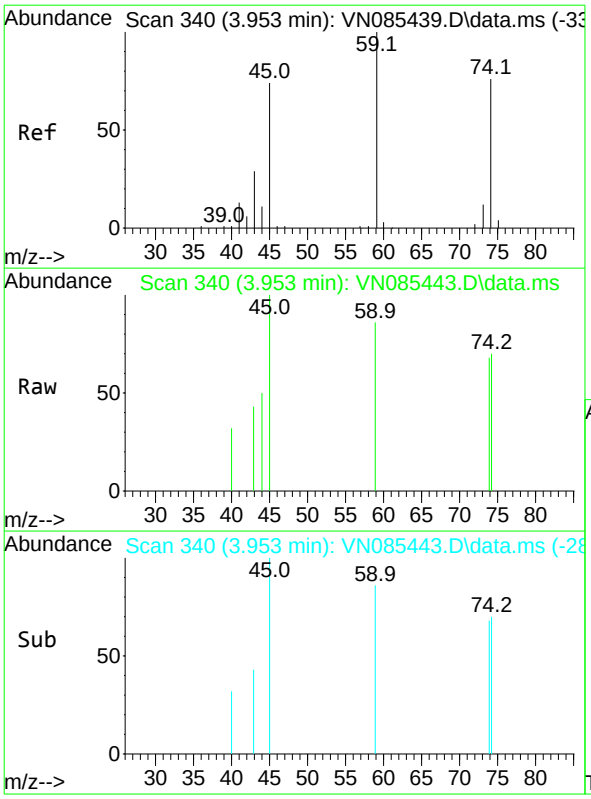


#7
Trichlorofluoromethane
Concen: 1.082 ug/l
RT: 3.512 min Scan# 265
Delta R.T. 0.012 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion:101 Resp: 3860

Ion	Ratio	Lower	Upper
101	100		
103	55.0	51.4	77.2

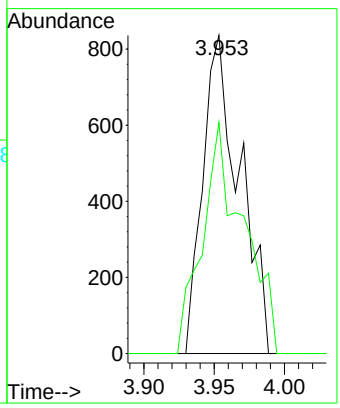




#8
Diethyl Ether
Concen: 1.238 ug/l
RT: 3.953 min Scan# 34
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 74 Resp: 1526

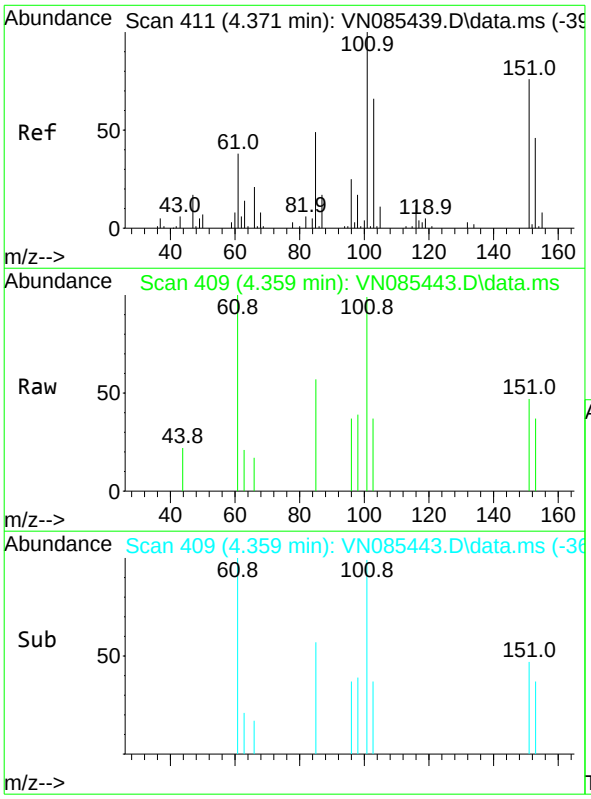
Ion	Ratio	Lower	Upper
74	100		
45	80.9	49.7	149.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

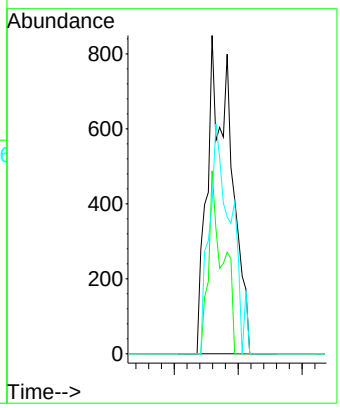
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

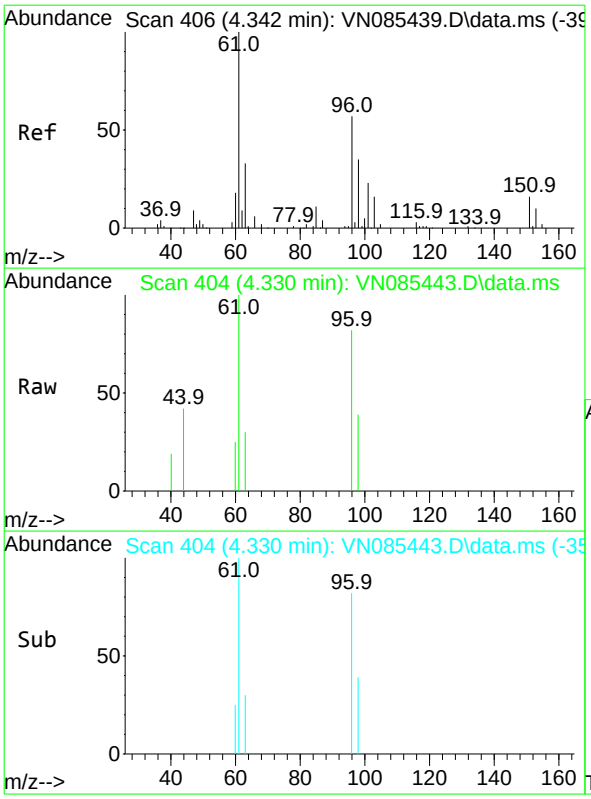


#9
1,1,2-Trichlorotrifluoroethane
Concen: 1.073 ug/l m
RT: 4.359 min Scan# 409
Delta R.T. -0.012 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion:101 Resp: 2156

Ion	Ratio	Lower	Upper
101	100		
85	35.3	37.8	56.8#
151	66.4	58.8	88.2

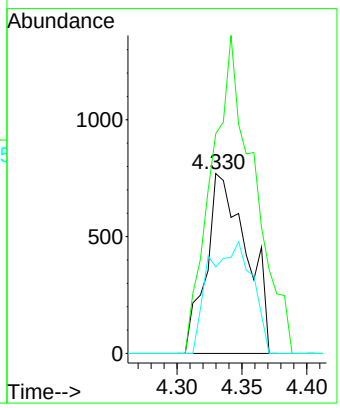




#12
1,1-Dichloroethene
Concen: 0.927 ug/l
RT: 4.330 min Scan# 40
Delta R.T. -0.012 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 96 Resp: 1660

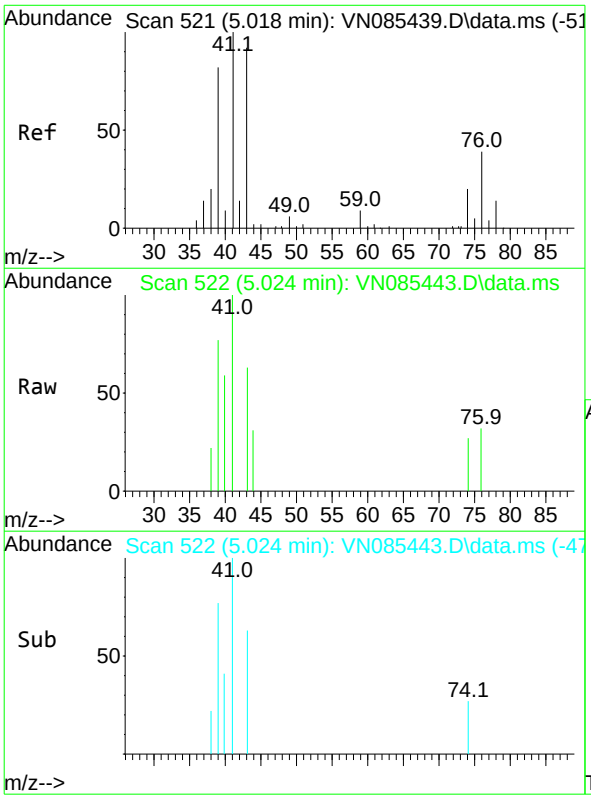
Ion	Ratio	Lower	Upper
96	100		
61	122.1	141.0	211.4#
98	48.1	49.0	73.6#



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

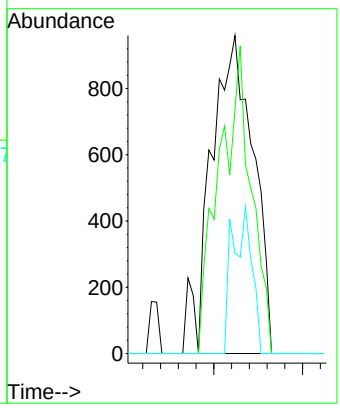
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

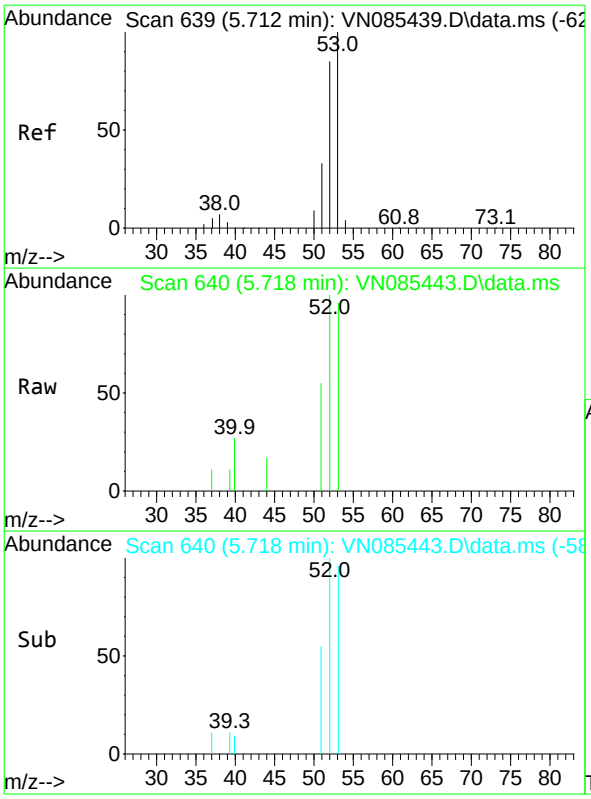


#14
Allyl chloride
Concen: 1.094 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 41 Resp: 3179

Ion	Ratio	Lower	Upper
41	100		
39	73.1	64.4	96.6
76	21.4	30.5	45.7#

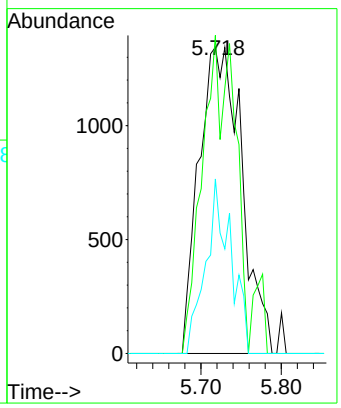




#15
Acrylonitrile
Concen: 5.070 ug/l
RT: 5.718 min Scan# 64
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 53 Resp: 4967

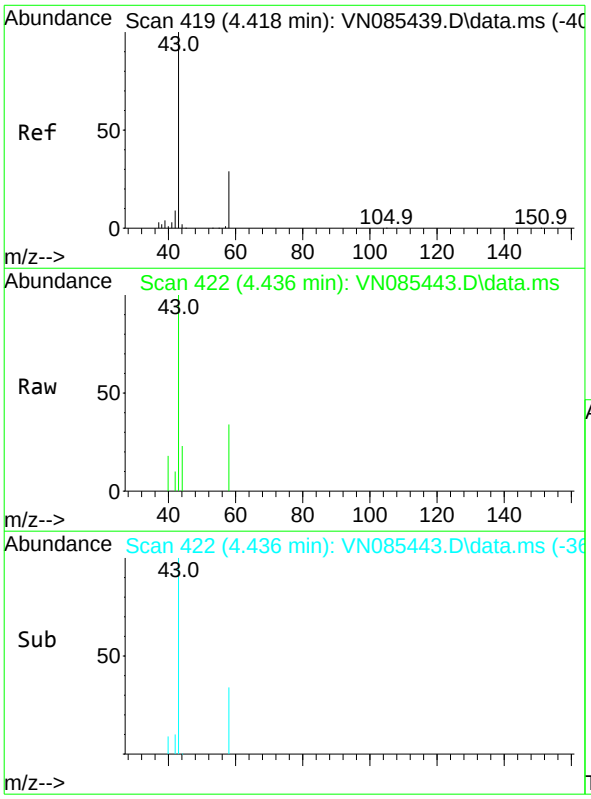
Ion	Ratio	Lower	Upper
53	100		
52	45.1	65.5	98.3#
51	33.3	29.8	44.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

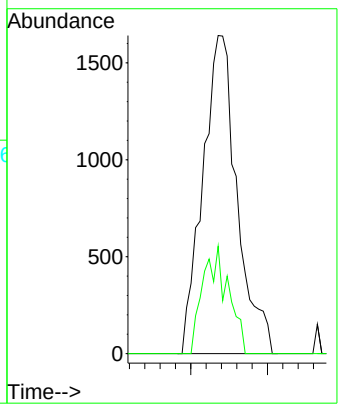
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

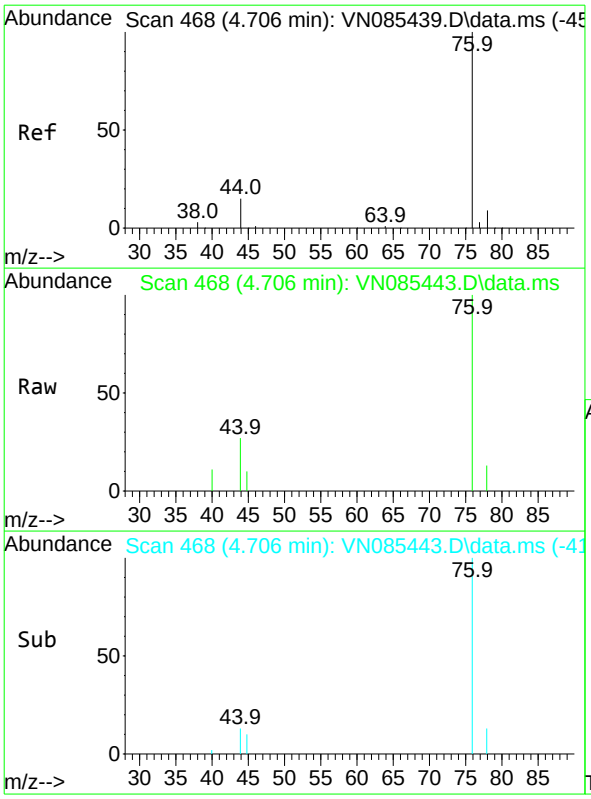


#16
Acetone
Concen: 5.862 ug/l
RT: 4.436 min Scan# 422
Delta R.T. 0.018 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 43 Resp: 5102

Ion	Ratio	Lower	Upper
43	100		
58	33.8	23.8	35.6

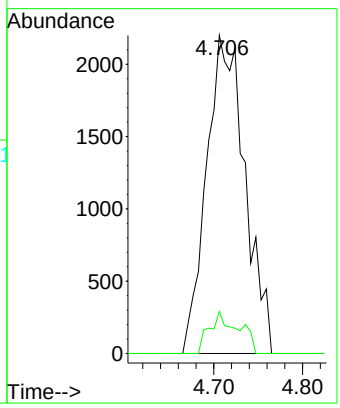




#17
Carbon Disulfide
Concen: 1.197 ug/l
RT: 4.706 min Scan# 46
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 76 Resp: 6601

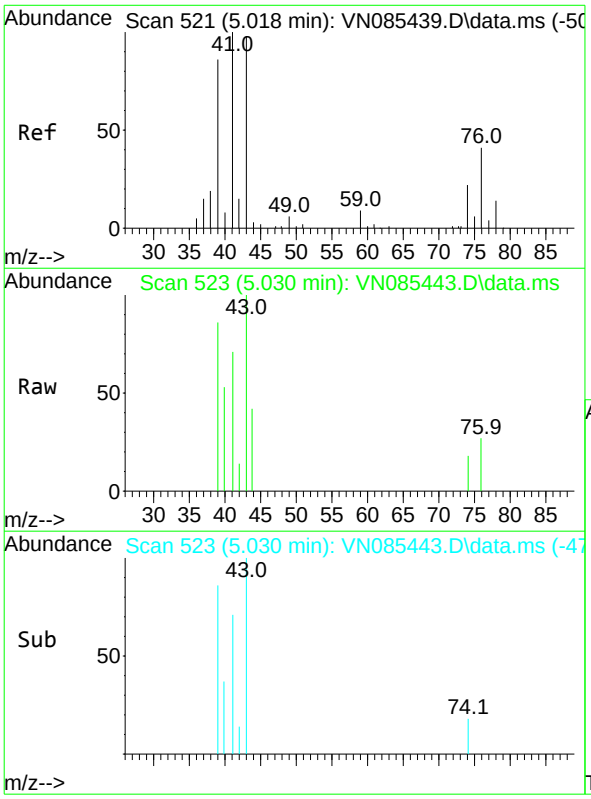
Ion	Ratio	Lower	Upper
76	100		
78	13.2	6.9	10.3#



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

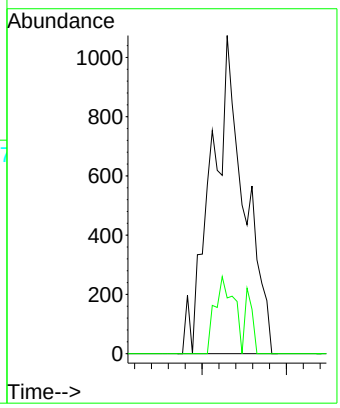
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

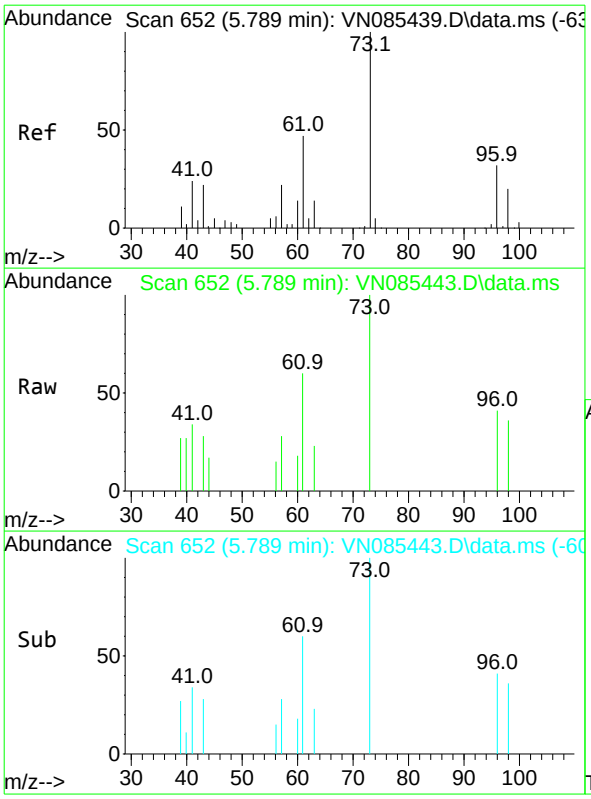


#18
Methyl Acetate
Concen: 1.099 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.012 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 43 Resp: 2908

Ion	Ratio	Lower	Upper
43	100		
74	13.8	18.6	28.0#





#19
Methyl tert-butyl Ether
Concen: 0.887 ug/l
RT: 5.789 min Scan# 65
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

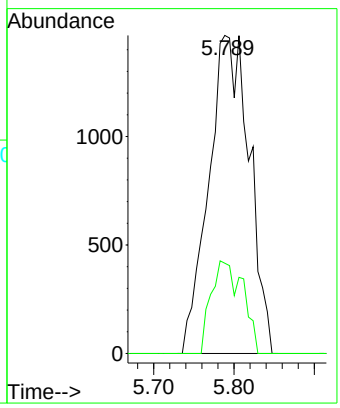
Tgt Ion: 73 Resp: 5156

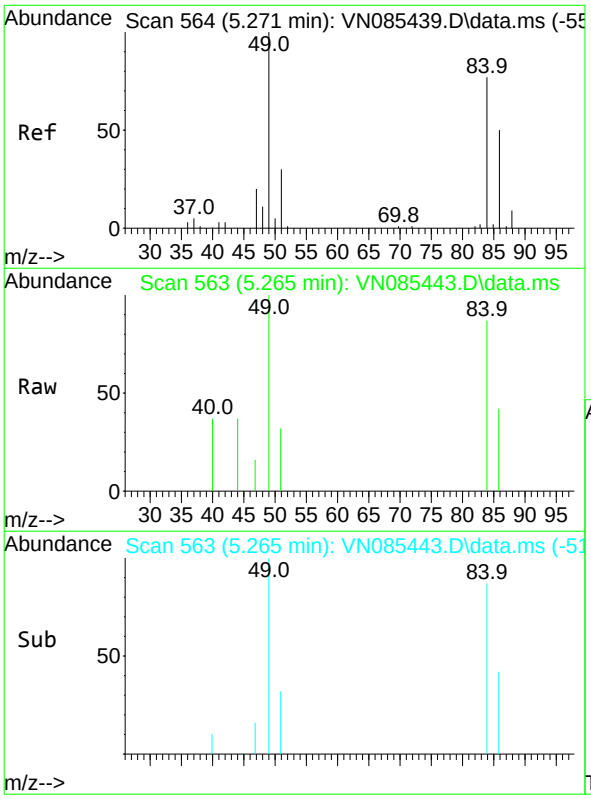
Ion	Ratio	Lower	Upper
73	100		
57	28.4	17.8	26.8#

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

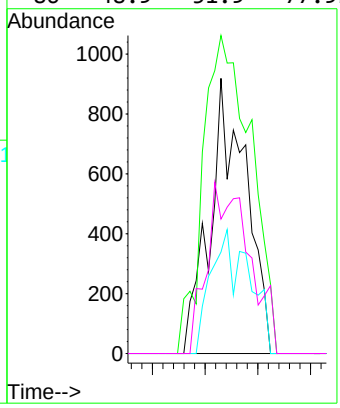


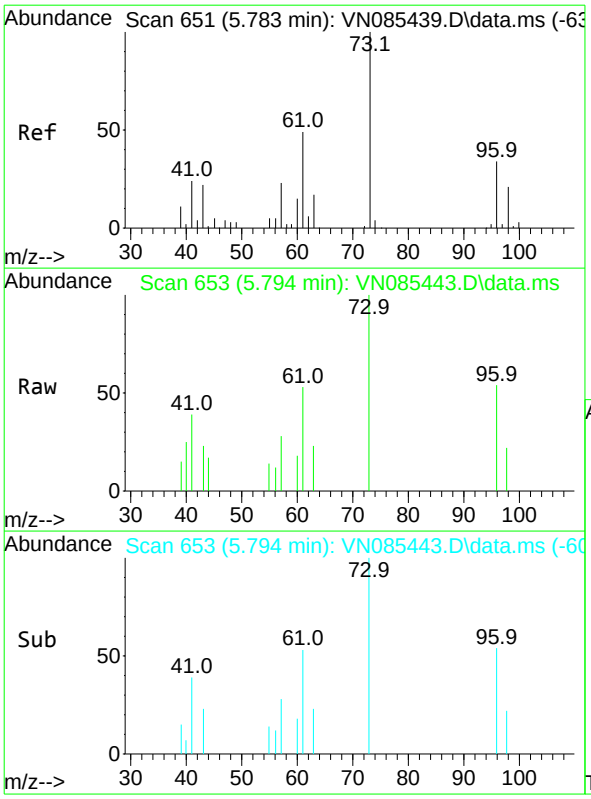


#20
Methylene Chloride
Concen: 1.016 ug/l
RT: 5.265 min Scan# 563
Delta R.T. -0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 84 Resp: 2190

Ion	Ratio	Lower	Upper
84	100		
49	115.6	104.1	156.1
51	36.9	31.0	46.4
86	48.9	51.9	77.9#

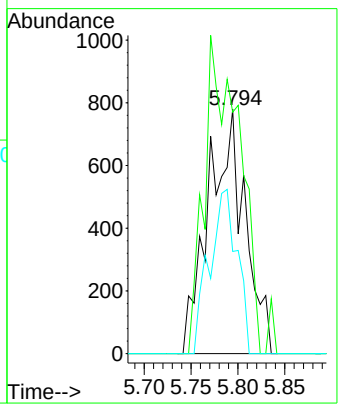




#21
trans-1,2-Dichloroethene
Concen: 1.102 ug/l
RT: 5.794 min Scan# 65
Delta R.T. 0.012 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 96 Resp: 2110

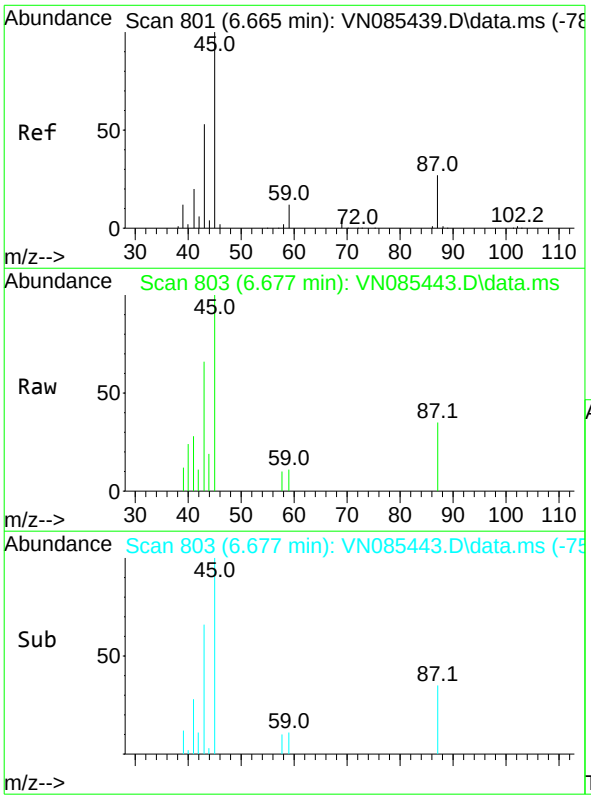
Ion	Ratio	Lower	Upper
96	100		
61	98.7	115.7	173.5#
98	41.8	49.8	74.8#



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

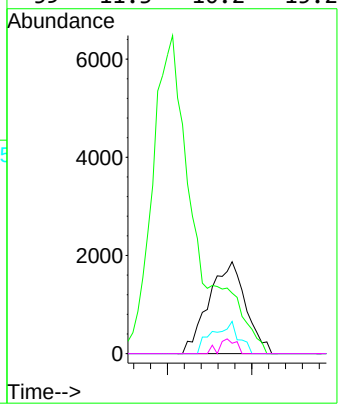
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

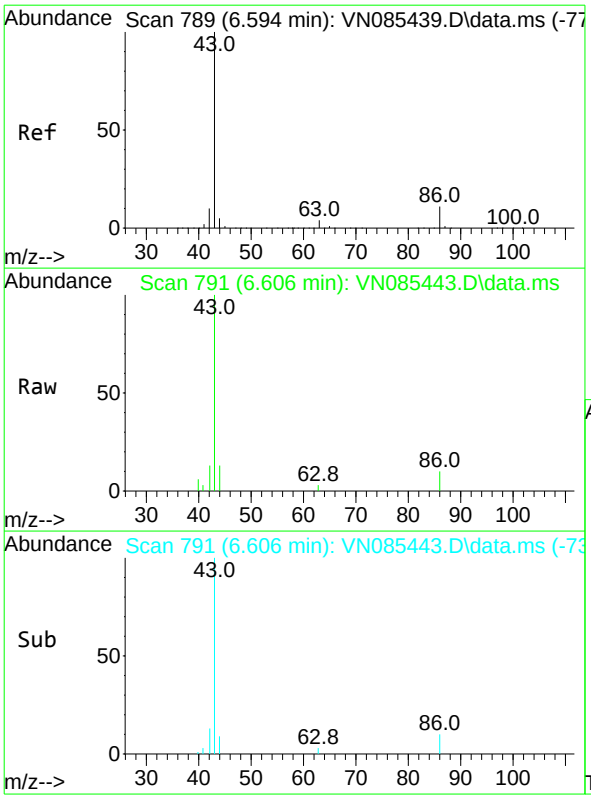


#22
Diisopropyl ether
Concen: 0.882 ug/l
RT: 6.677 min Scan# 803
Delta R.T. 0.012 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 45 Resp: 5691

Ion	Ratio	Lower	Upper
45	100		
43	65.9	45.0	67.6
87	35.0	21.8	32.8#
59	11.3	10.2	15.2

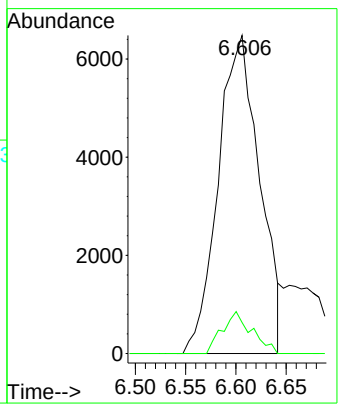




#23
Vinyl Acetate
Concen: 4.090 ug/l m
RT: 6.606 min Scan# 79
Delta R.T. 0.012 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 43 Resp: 18526

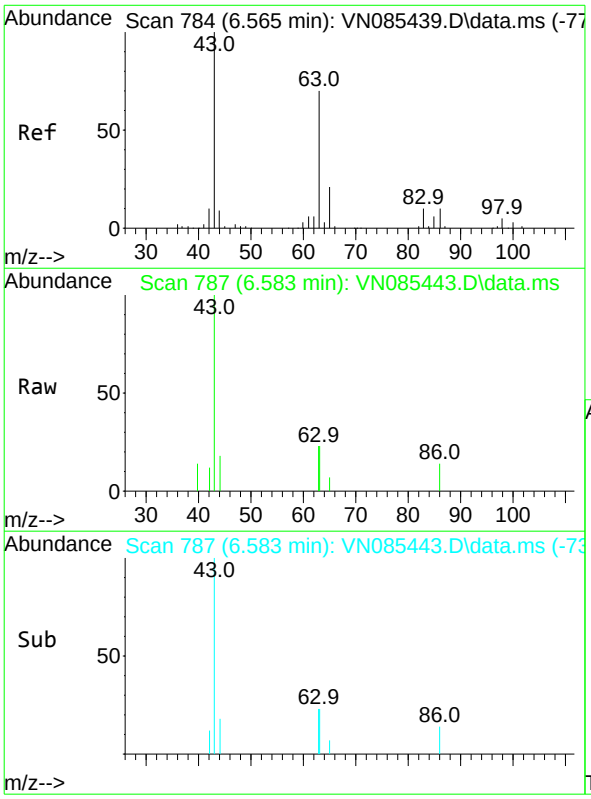
Ion	Ratio	Lower	Upper
43	100		
86	9.8	8.4	12.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

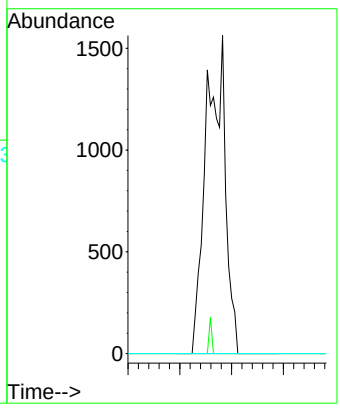
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

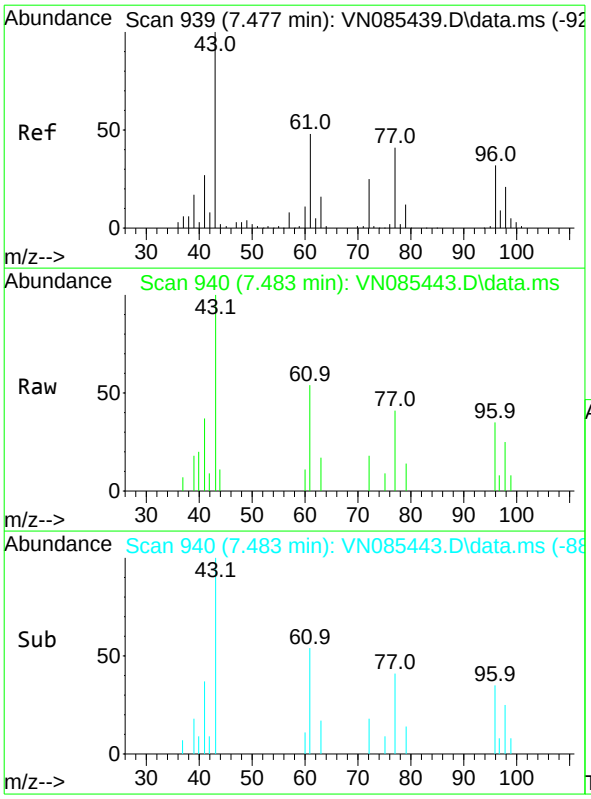


#24
1,1-Dichloroethane
Concen: 1.022 ug/l m
RT: 6.583 min Scan# 787
Delta R.T. 0.018 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 63 Resp: 4020

Ion	Ratio	Lower	Upper
63	100		
98	0.0	3.3	9.8#
100	0.0	2.0	6.0#

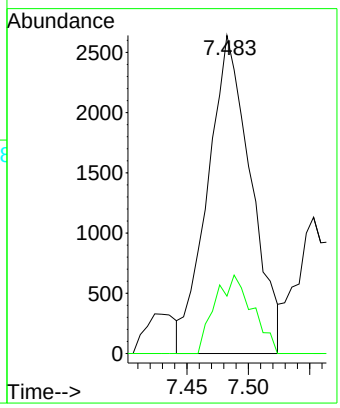




#25
2-Butanone
Concen: 5.034 ug/l m
RT: 7.483 min Scan# 94
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 43 Resp: 6448

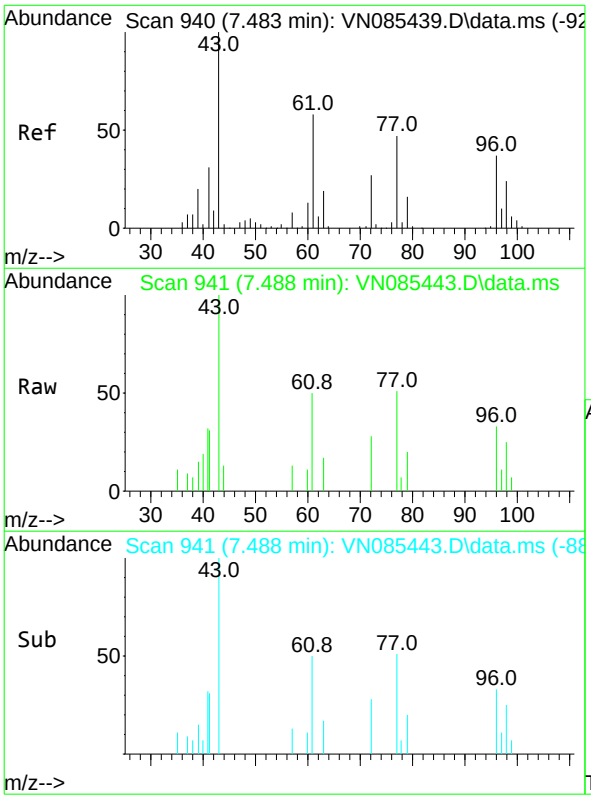
Ion	Ratio	Lower	Upper
43	100		
72	18.0	20.2	30.4#



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

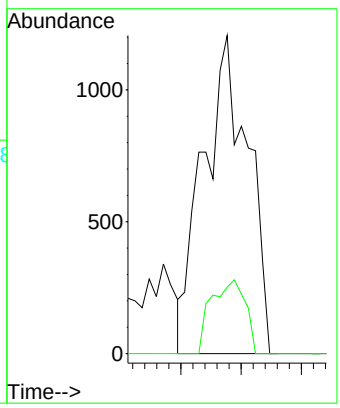
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

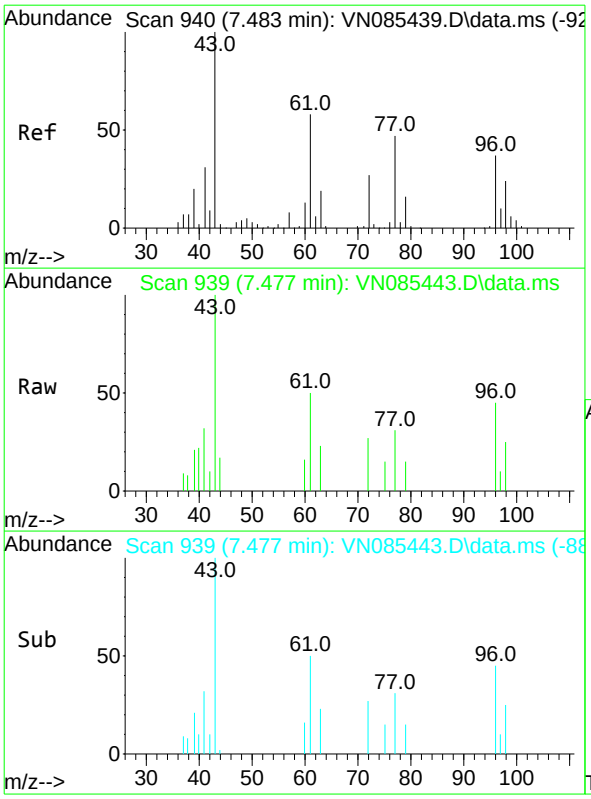


#26
2,2-Dichloropropane
Concen: 0.976 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 77 Resp: 3104

Ion	Ratio	Lower	Upper
77	100		
97	17.7	10.7	32.1

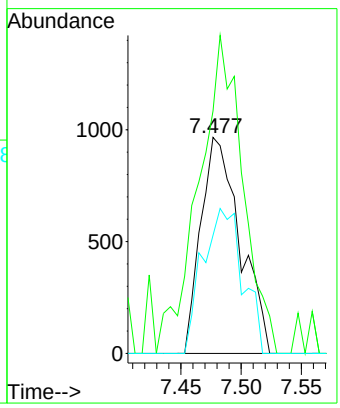




#27
cis-1,2-Dichloroethene
Concen: 0.969 ug/l
RT: 7.477 min Scan# 93
Delta R.T. -0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 96 Resp: 2185

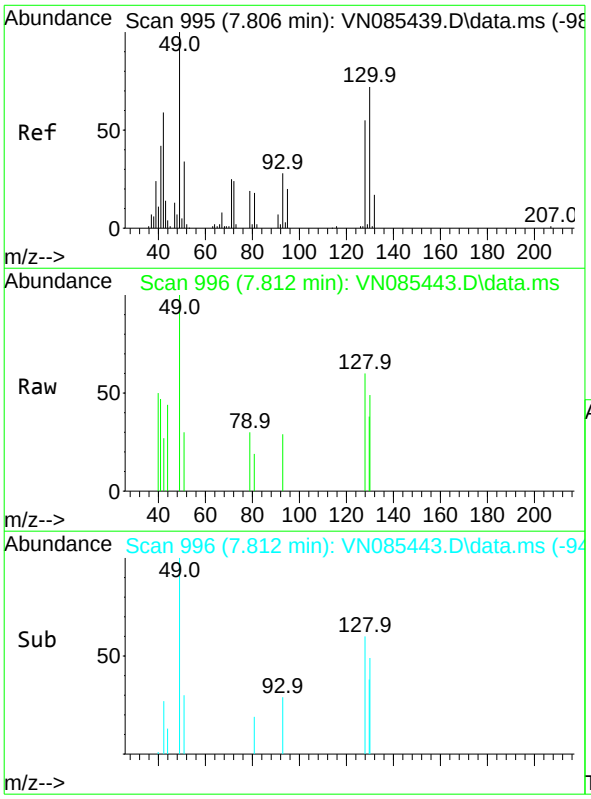
Ion	Ratio	Lower	Upper
96	100		
61	166.1	0.0	311.8
98	68.7	0.0	126.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

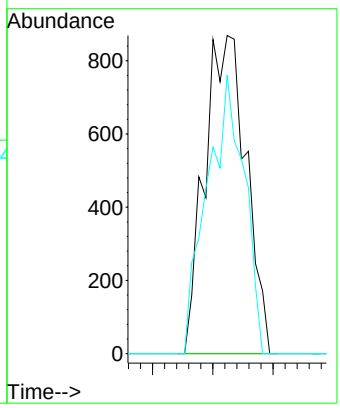
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

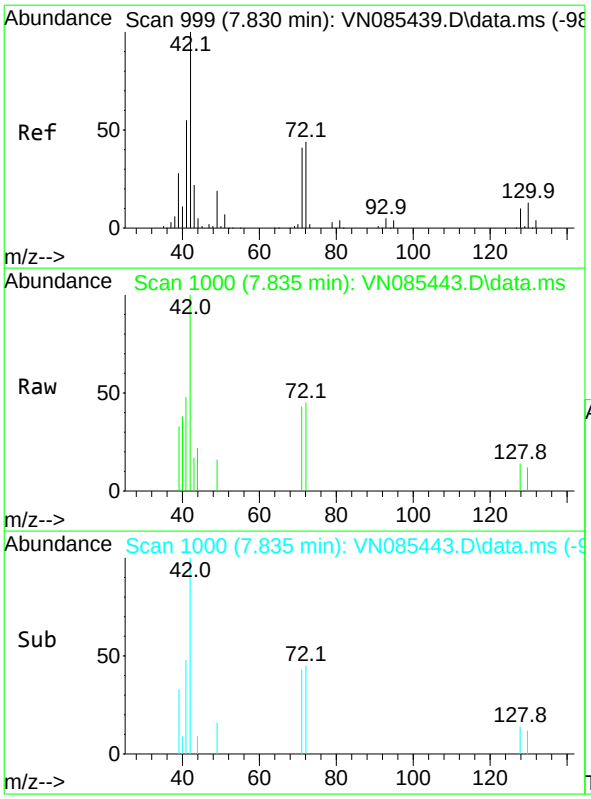


#28
Bromochloromethane
Concen: 1.138 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 49 Resp: 2082

Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.4
130	78.0	55.0	82.4

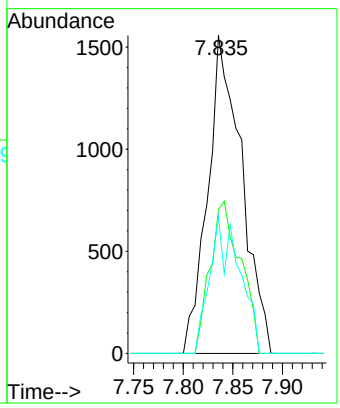




#29
Tetrahydrofuran
Concen: 4.548 ug/l
RT: 7.835 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 42 Resp: 3693

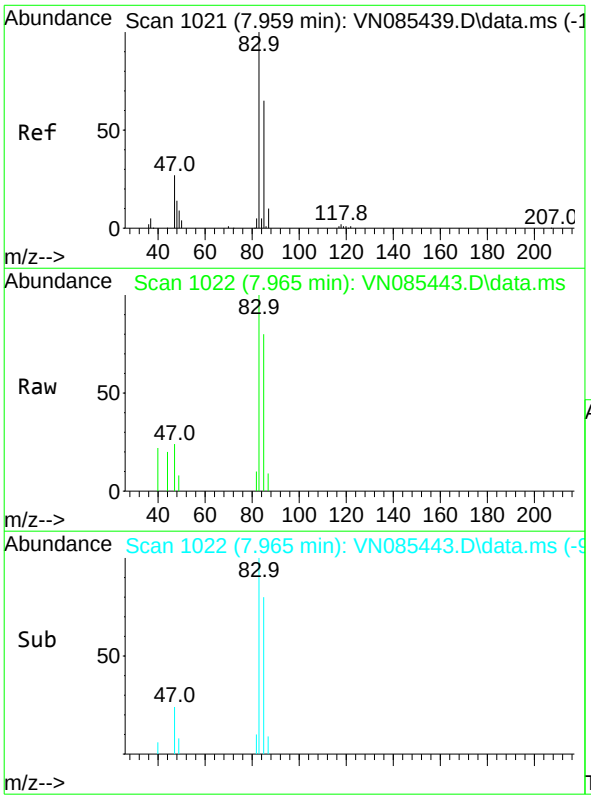
Ion	Ratio	Lower	Upper
42	100		
72	43.1	34.2	51.2
71	37.9	32.5	48.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

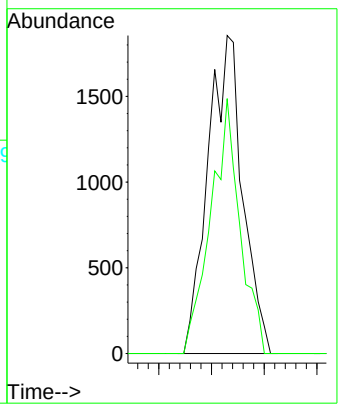
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

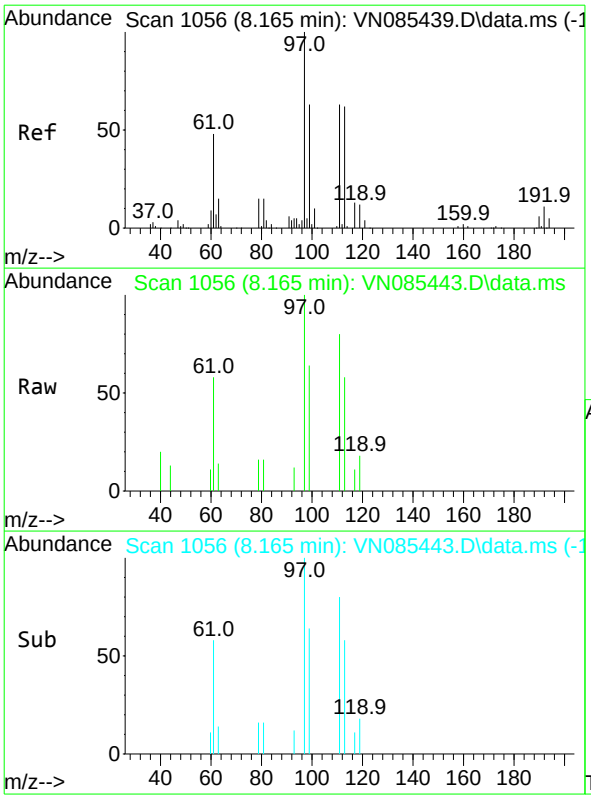


#30
Chloroform
Concen: 1.045 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 83 Resp: 4250

Ion	Ratio	Lower	Upper
83	100		
85	80.2	51.8	77.6#

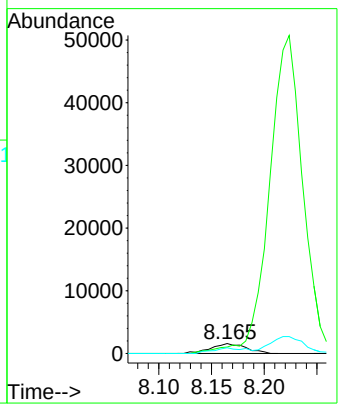




#32
1,1,1-Trichloroethane
Concen: 1.031 ug/l
RT: 8.165 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 97 Resp: 3678

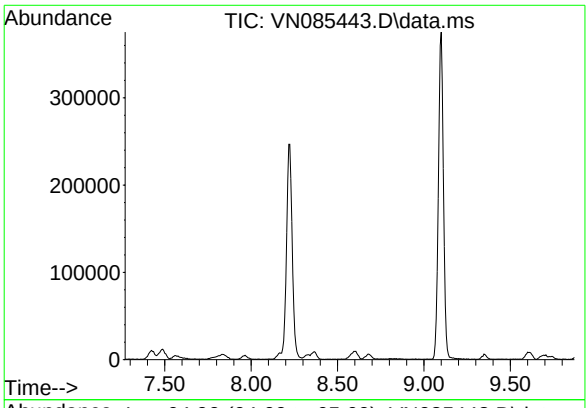
Ion	Ratio	Lower	Upper
97	100		
99	0.0	49.8	74.6#
61	52.2	41.4	62.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

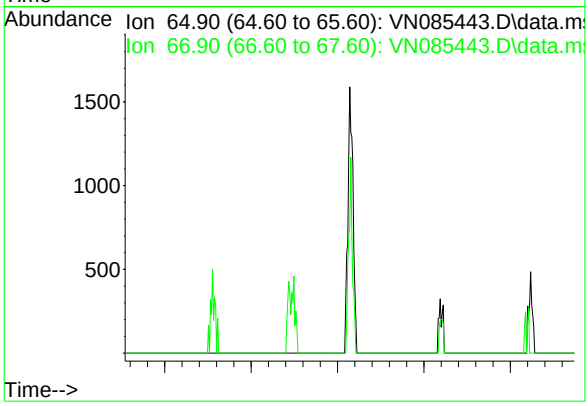


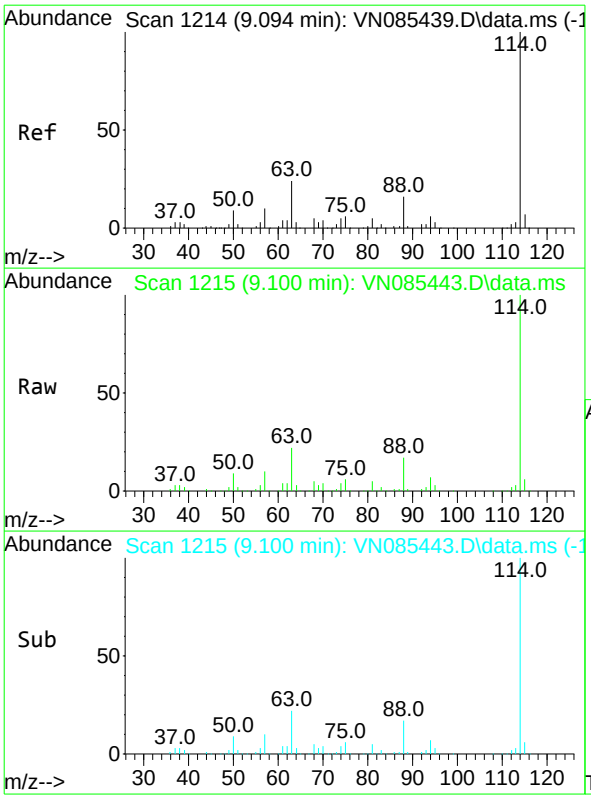
#33
1,2-Dichloroethane-d4
Concen: 0.000 ug/l
Expected RT: 8.57 min

Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 65

Sig	Exp Ratio
65	100
67	50.8

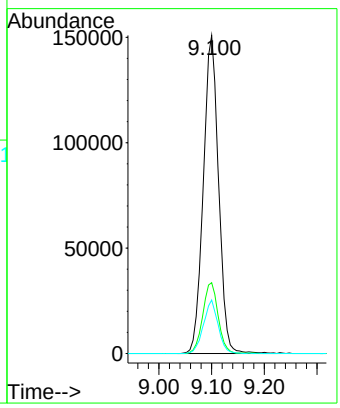




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 12
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion:114 Resp: 302938

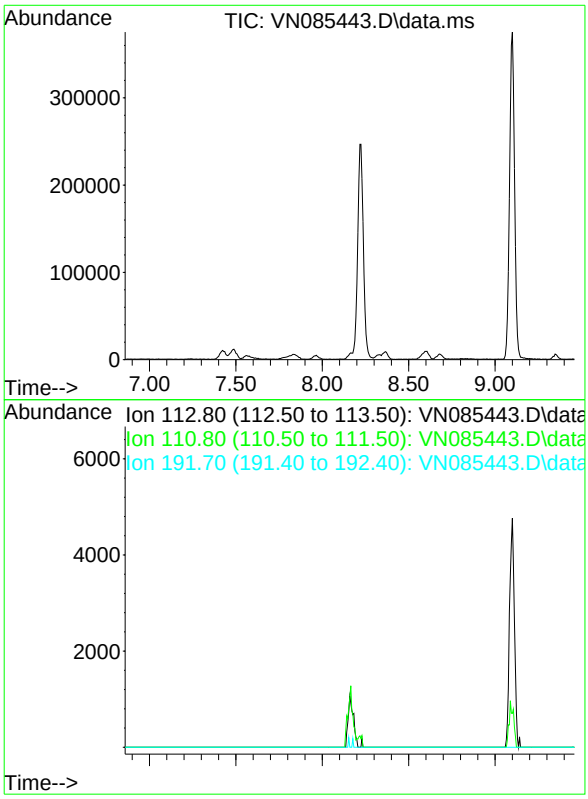
Ion	Ratio	Lower	Upper
114	100		
63	22.3	0.0	47.6
88	16.8	0.0	32.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

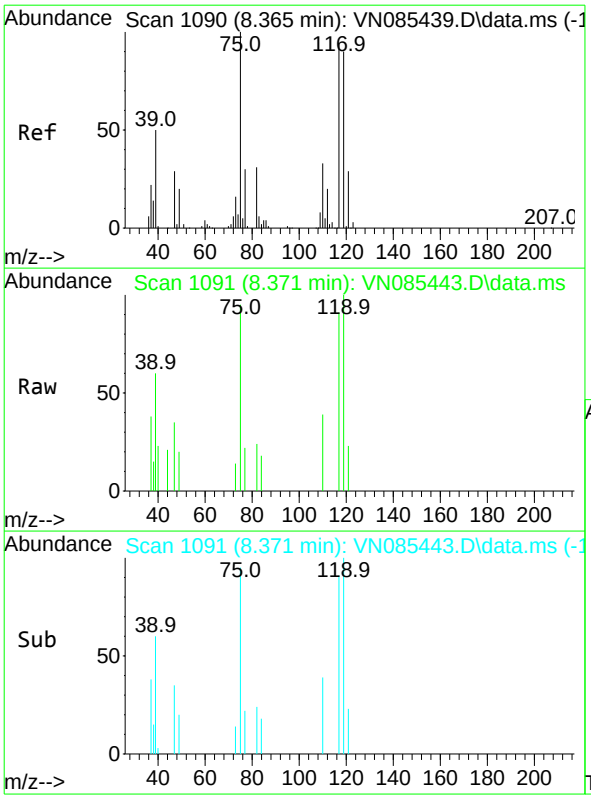


#35
Dibromofluoromethane
Concen: 0.000 ug/l
Expected RT: 8.16 min

Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 113

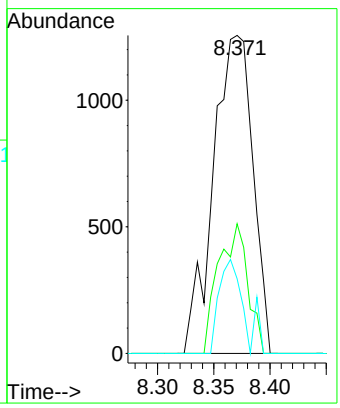
Sig	Exp Ratio
113	100
111	103.4
192	17.9



#36
1,1-Dichloropropene
Concen: 1.046 ug/l
RT: 8.371 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 75 Resp: 3084

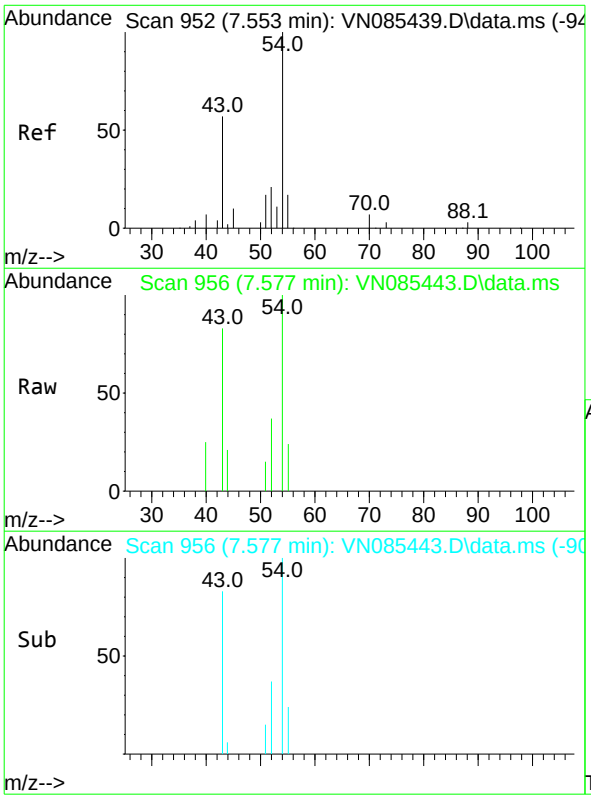
Ion	Ratio	Lower	Upper
75	100		
110	30.1	16.5	49.5
77	15.9	24.4	36.6#



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

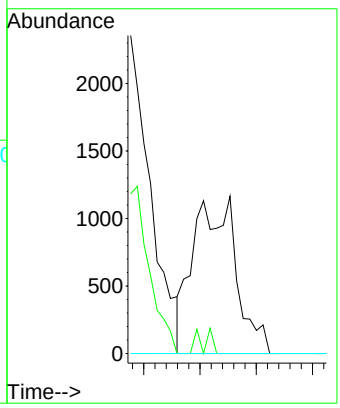
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

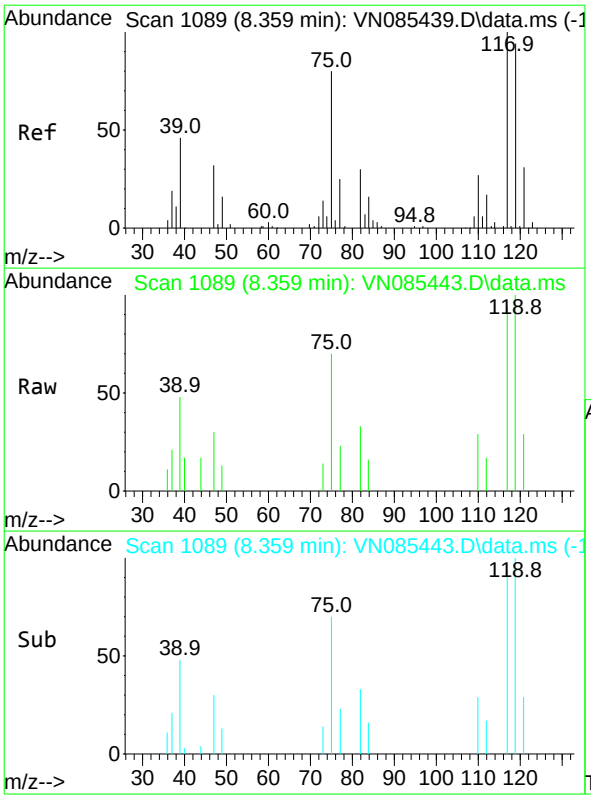


#37
Ethyl Acetate
Concen: 1.026 ug/l m
RT: 7.577 min Scan# 956
Delta R.T. 0.023 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 43 Resp: 3056

Ion	Ratio	Lower	Upper
43	100		
61	4.3	10.9	16.3#
70	0.0	7.5	11.3#

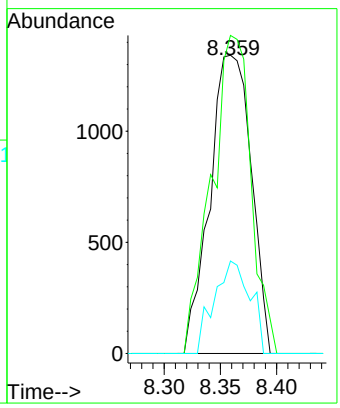




#38
Carbon Tetrachloride
Concen: 1.018 ug/l
RT: 8.359 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion:117 Resp: 3436

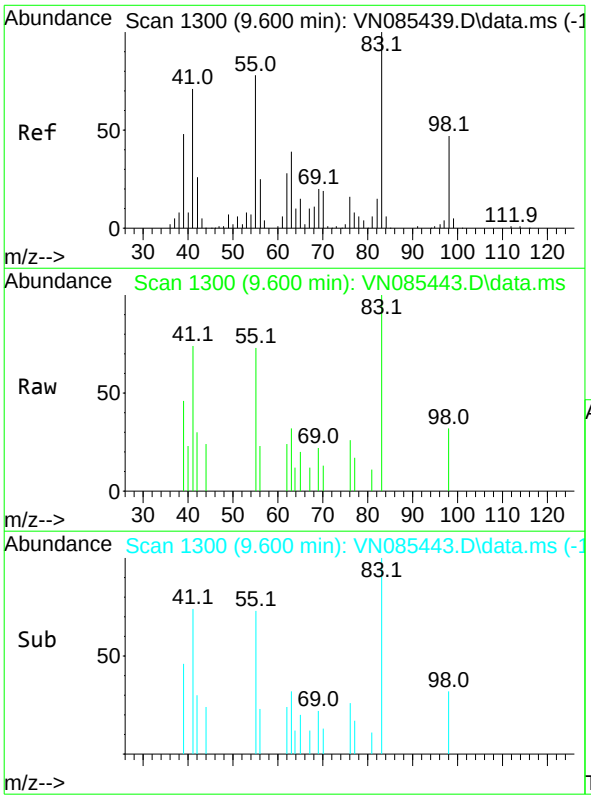
Ion	Ratio	Lower	Upper
117	100		
119	106.6	75.4	113.2
121	31.0	24.6	37.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

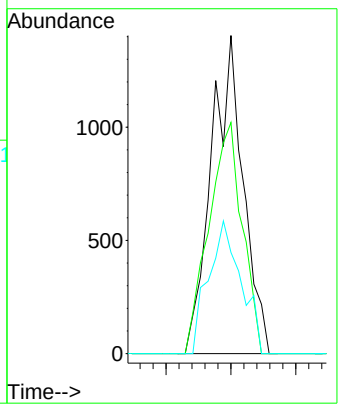
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

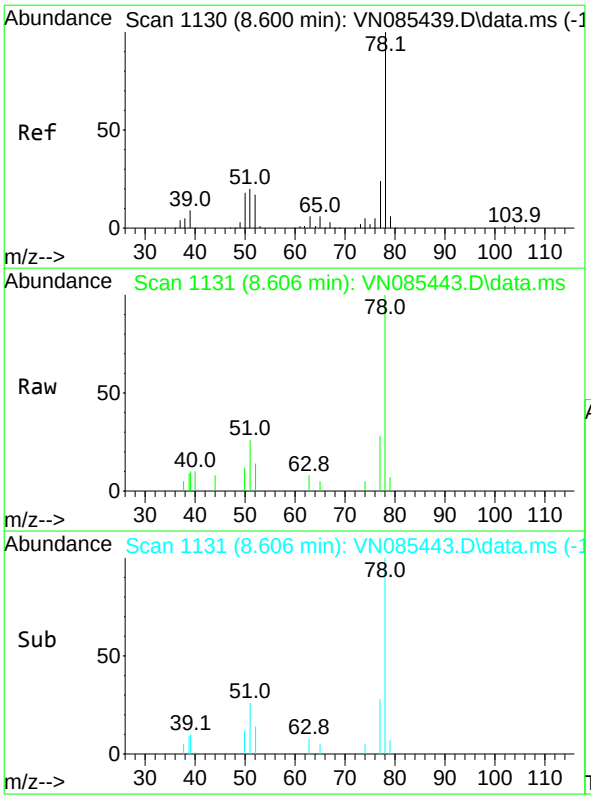


#39
Methylcyclohexane
Concen: 0.867 ug/l
RT: 9.600 min Scan# 1300
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 83 Resp: 2403

Ion	Ratio	Lower	Upper
83	100		
55	72.7	62.6	94.0
98	31.8	37.7	56.5#

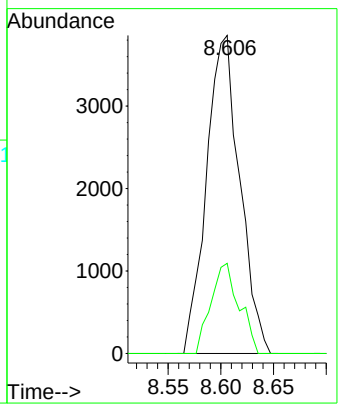




#40
Benzene
Concen: 0.957 ug/l
RT: 8.606 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 78 Resp: 8480

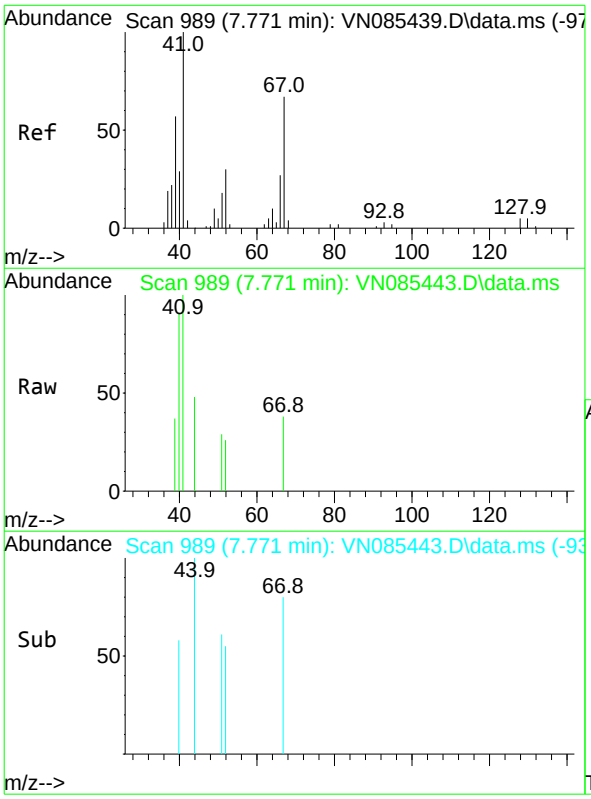
Ion	Ratio	Lower	Upper
78	100		
77	28.3	19.0	28.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

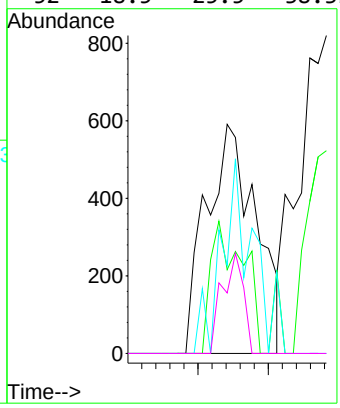
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

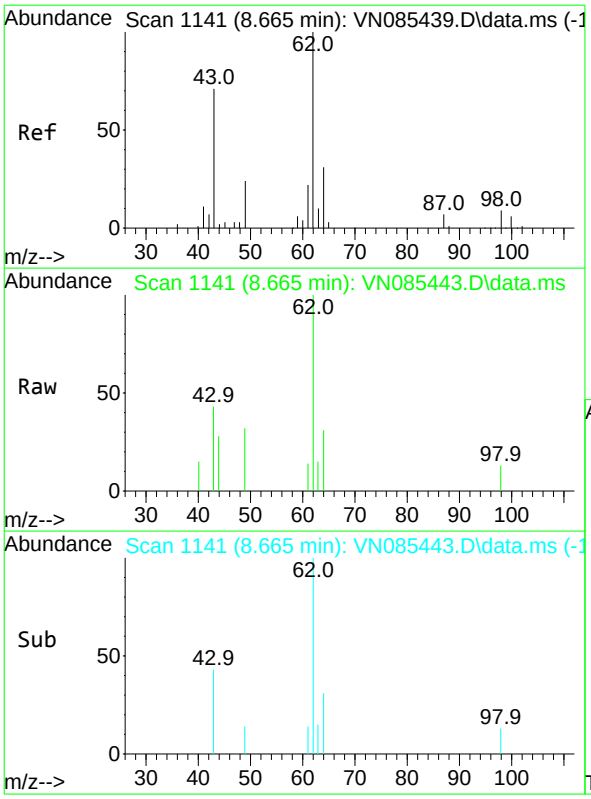


#41
Methacrylonitrile
Concen: 0.941 ug/l
RT: 7.771 min Scan# 989
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 41 Resp: 1458

Ion	Ratio	Lower	Upper
41	100		
39	37.6	46.0	69.0#
67	53.8	57.4	86.2#
52	18.5	25.5	38.3#

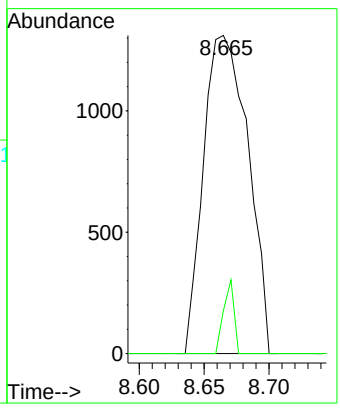




#42
1,2-Dichloroethane
Concen: 0.938 ug/l
RT: 8.665 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 62 Resp: 3131

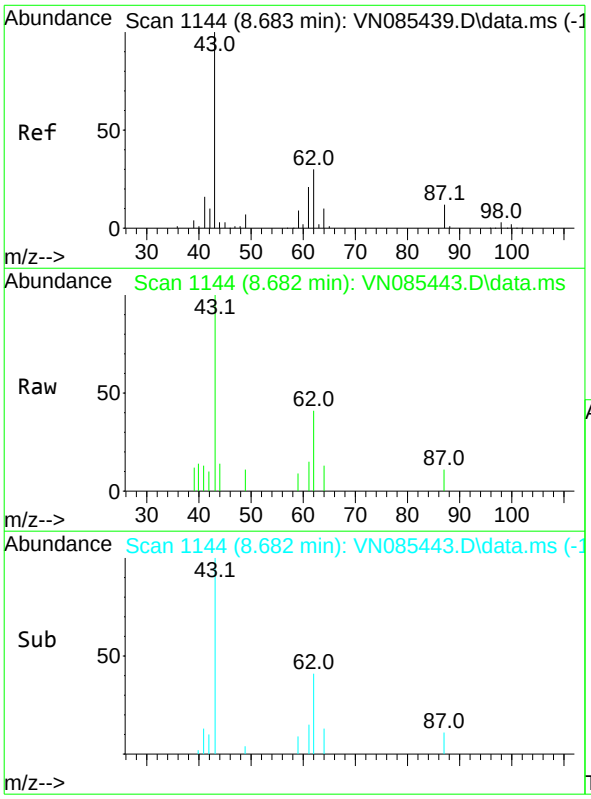
Ion	Ratio	Lower	Upper
62	100		
98	5.4	0.0	17.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

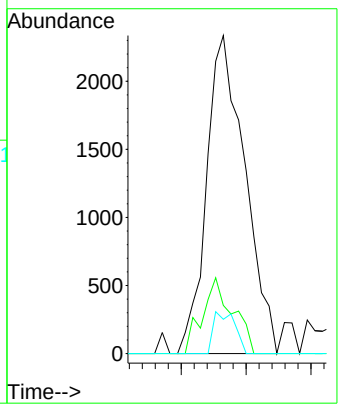
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

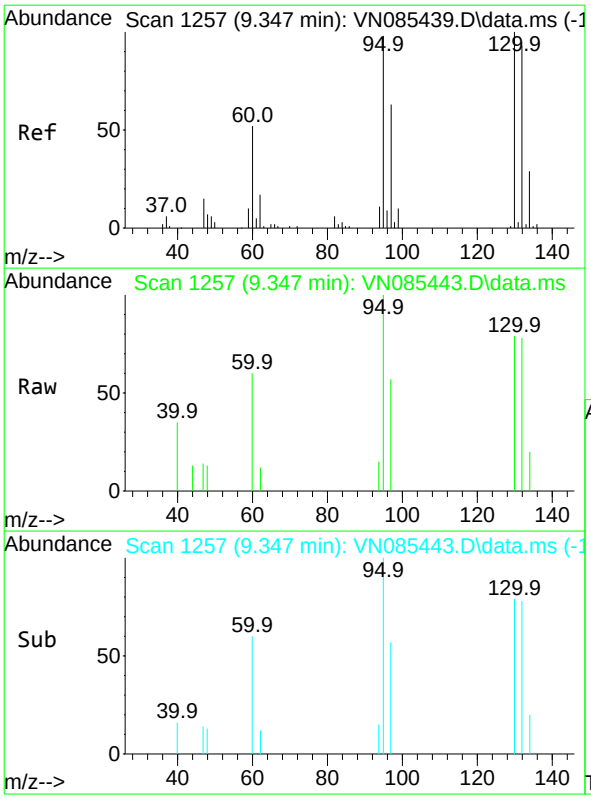


#43
Isopropyl Acetate
Concen: 1.007 ug/l
RT: 8.682 min Scan# 1144
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 43 Resp: 4803

Ion	Ratio	Lower	Upper
43	100		
61	18.9	20.7	31.1#
87	7.3	9.8	14.8#

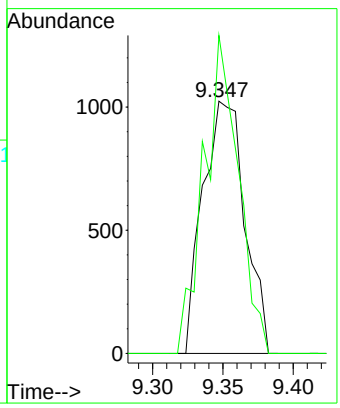




#44
Trichloroethene
Concen: 1.034 ug/l
RT: 9.347 min Scan# 12
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion:130 Resp: 2133

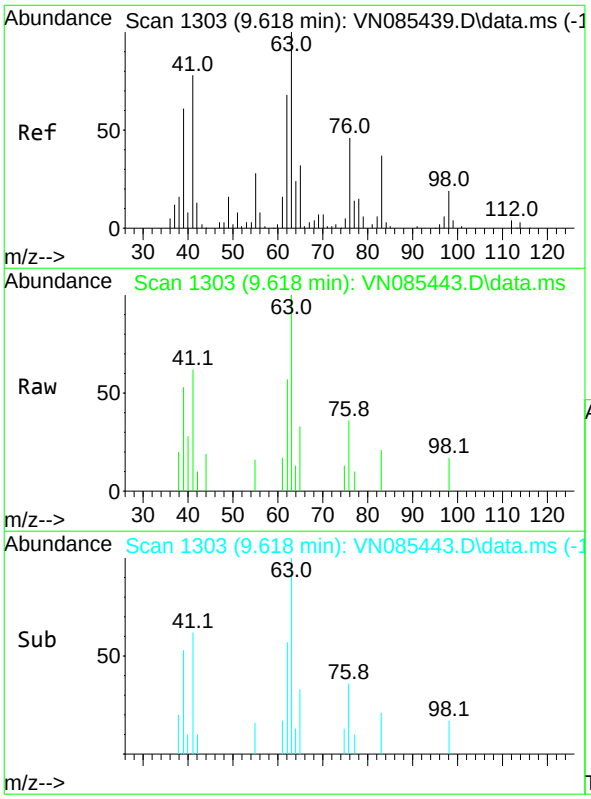
Ion	Ratio	Lower	Upper
130	100		
95	126.1	0.0	195.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

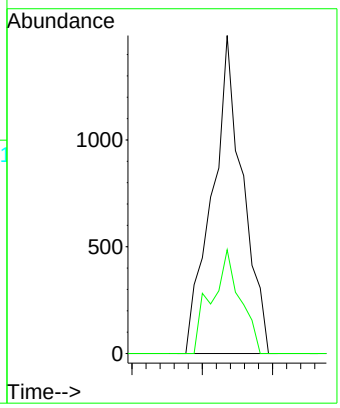
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

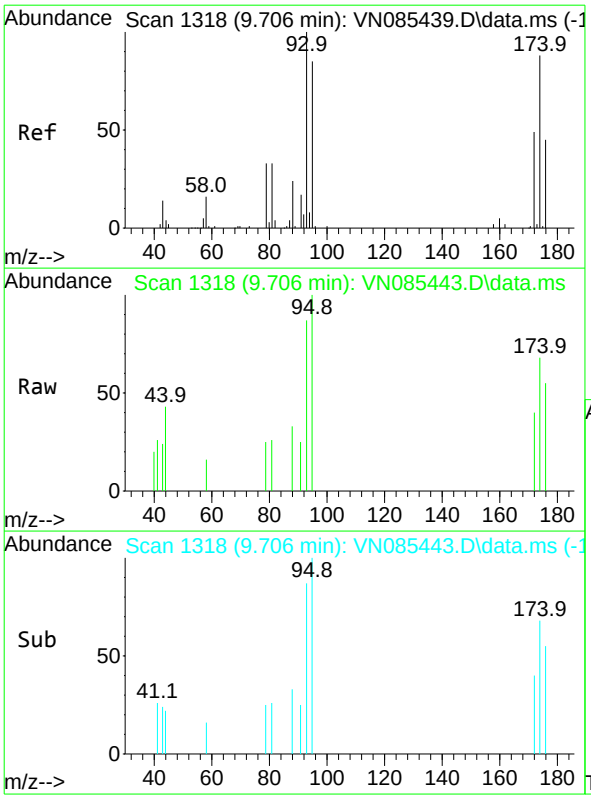


#45
1,2-Dichloropropane
Concen: 0.992 ug/l
RT: 9.618 min Scan# 1303
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 63 Resp: 2246

Ion	Ratio	Lower	Upper
63	100		
65	32.6	25.6	38.4

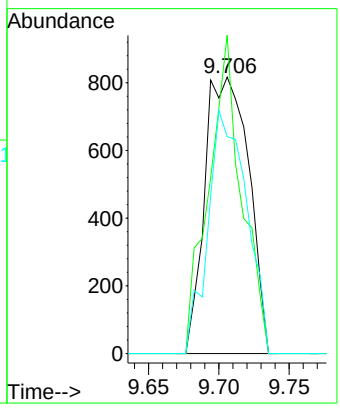




#46
Dibromomethane
Concen: 1.083 ug/l
RT: 9.706 min Scan# 13
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 93 Resp: 1769

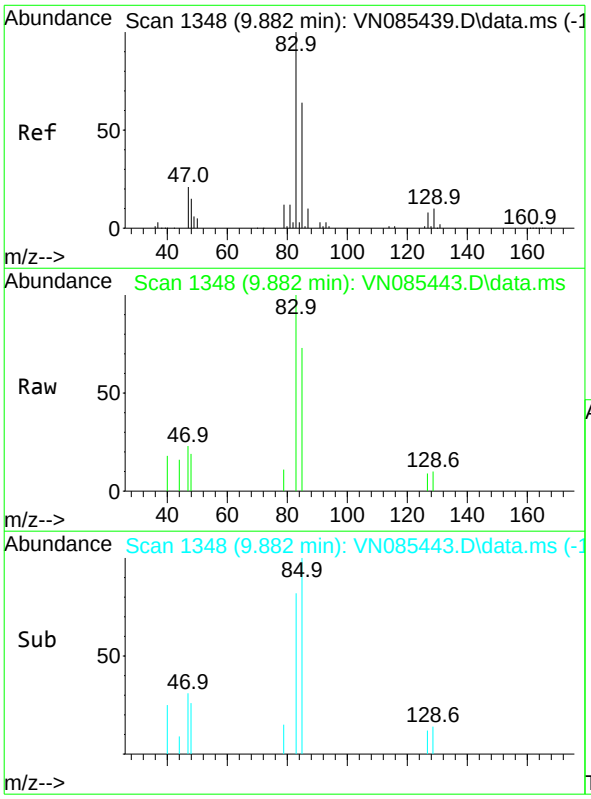
Ion	Ratio	Lower	Upper
93	100		
95	86.5	64.7	97.1
174	77.4	69.0	103.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

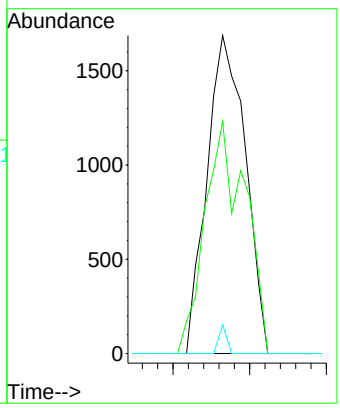
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

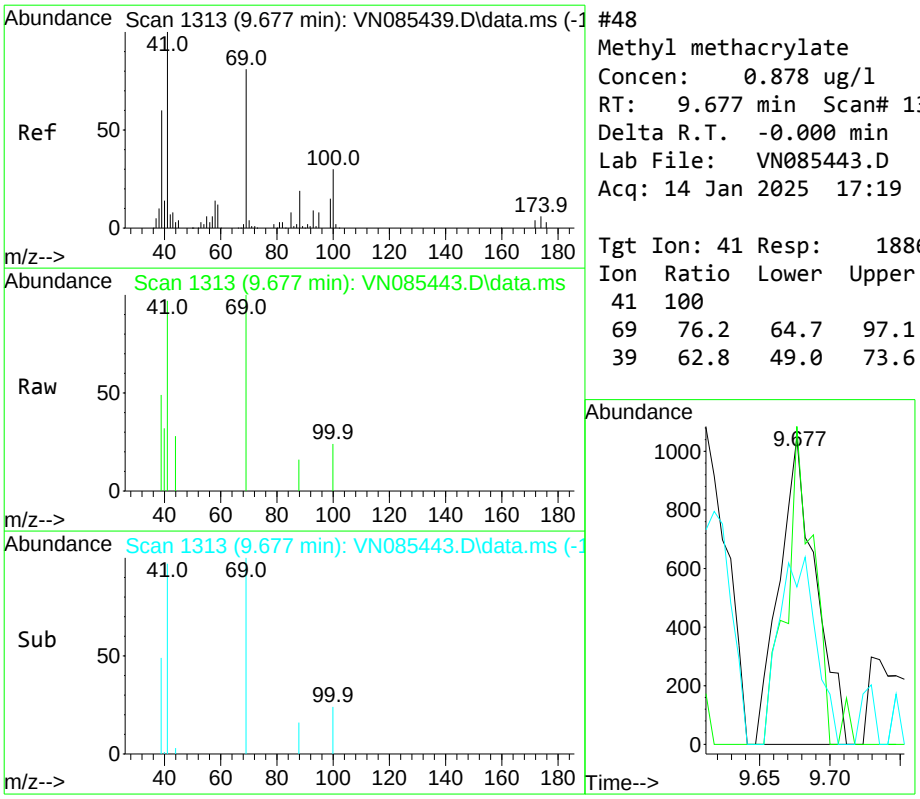


#47
Bromodichloromethane
Concen: 0.882 ug/l
RT: 9.882 min Scan# 1348
Delta R.T. 0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 83 Resp: 2935

Ion	Ratio	Lower	Upper
83	100		
85	72.9	51.2	76.8
127	9.0	6.5	9.7





#48
Methyl methacrylate
Concen: 0.878 ug/l
RT: 9.677 min Scan# 13
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

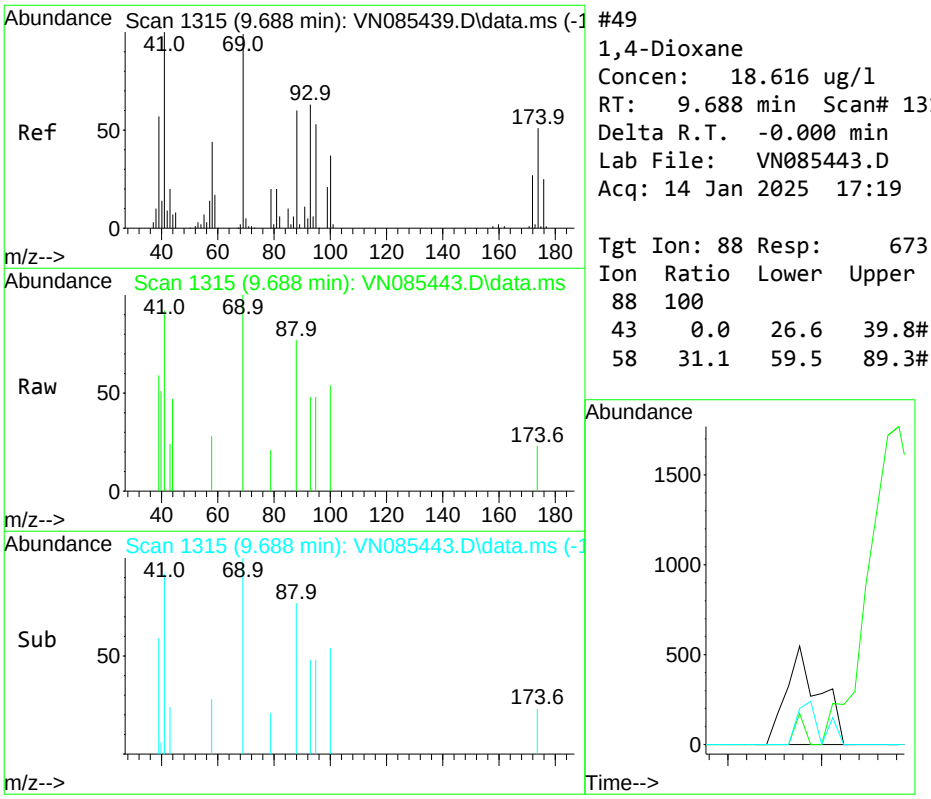
Tgt Ion: 41 Resp: 1886

Ion	Ratio	Lower	Upper
41	100		
69	76.2	64.7	97.1
39	62.8	49.0	73.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

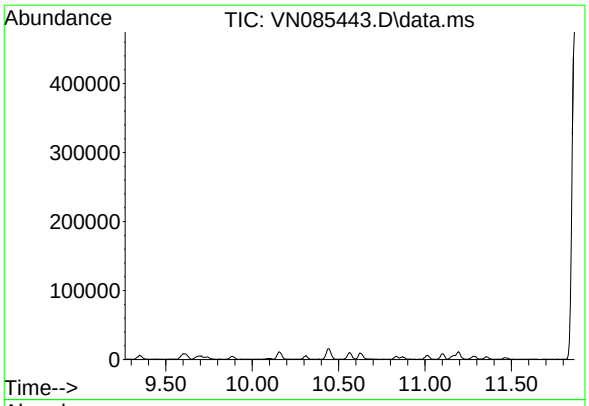
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#49
1,4-Dioxane
Concen: 18.616 ug/l
RT: 9.688 min Scan# 1315
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 88 Resp: 673

Ion	Ratio	Lower	Upper
88	100		
43	0.0	26.6	39.8#
58	31.1	59.5	89.3#



#50
Toluene-d8
Concen: 0.000 ug/l
Expected RT: 10.56 min

Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

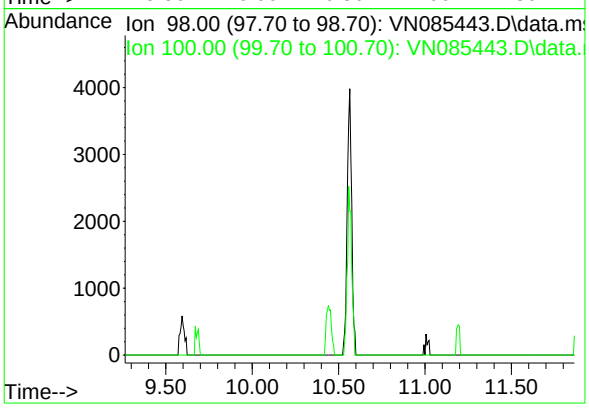
Tgt Ion: 98

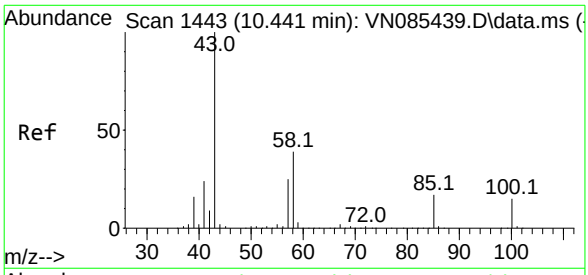
Sig	Exp Ratio
98	100
100	65.3

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

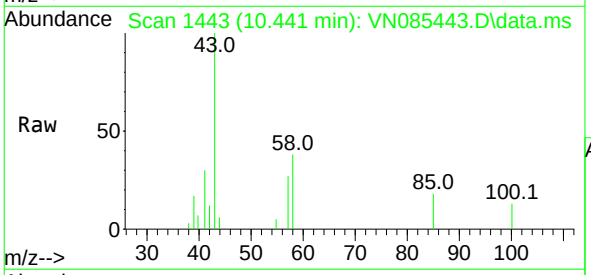


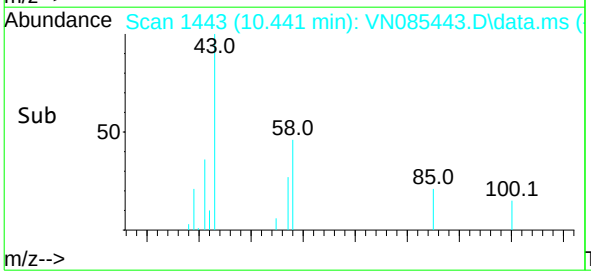


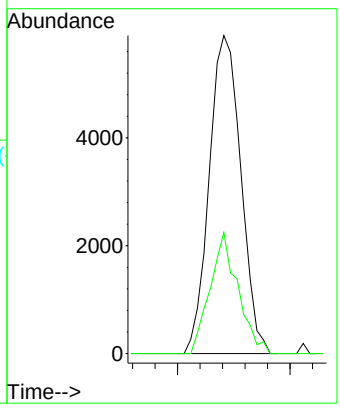
#51
4-Methyl-2-Pentanone
Concen: 4.163 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

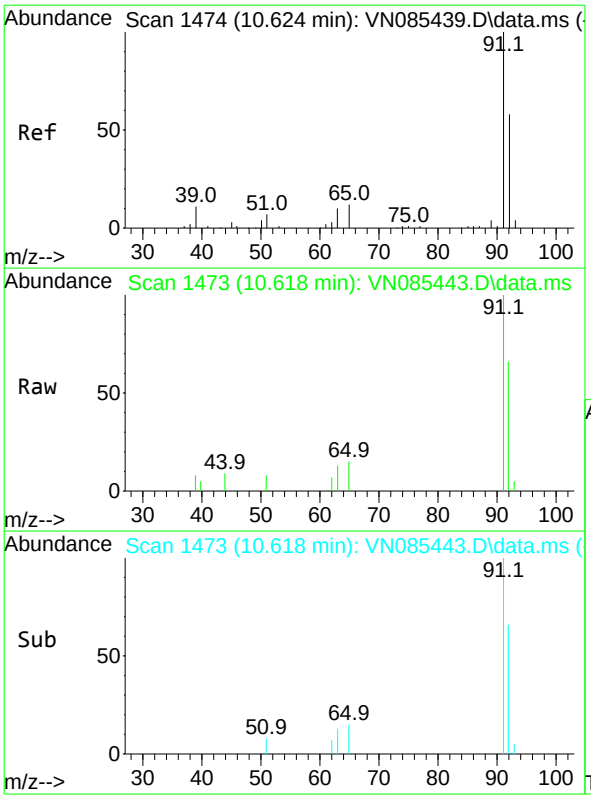
Tgt Ion: 43 Resp: 11523

Ion	Ratio	Lower	Upper
43	100		
58	33.6	30.5	45.7





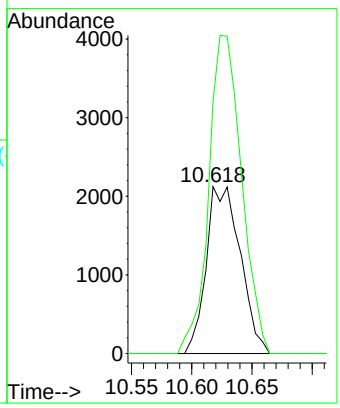




#52
Toluene
Concen: 0.814 ug/l
RT: 10.618 min Scan# 14
Delta R.T. -0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 92 Resp: 4180

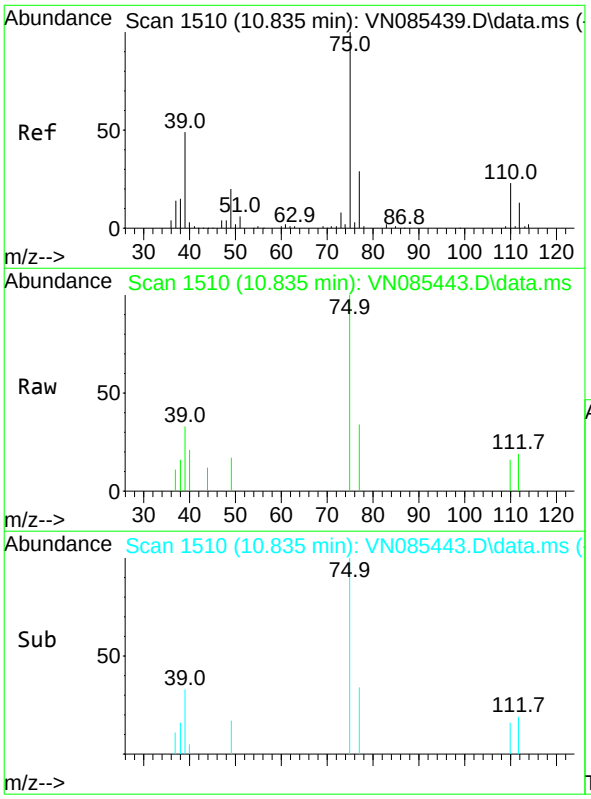
Ion	Ratio	Lower	Upper
92	100		
91	183.9	139.2	208.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

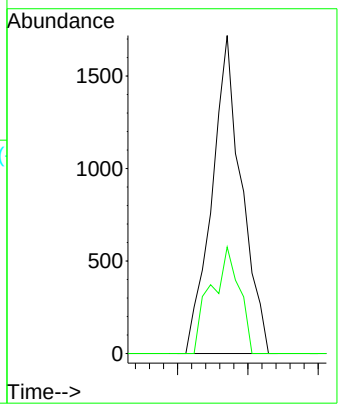
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

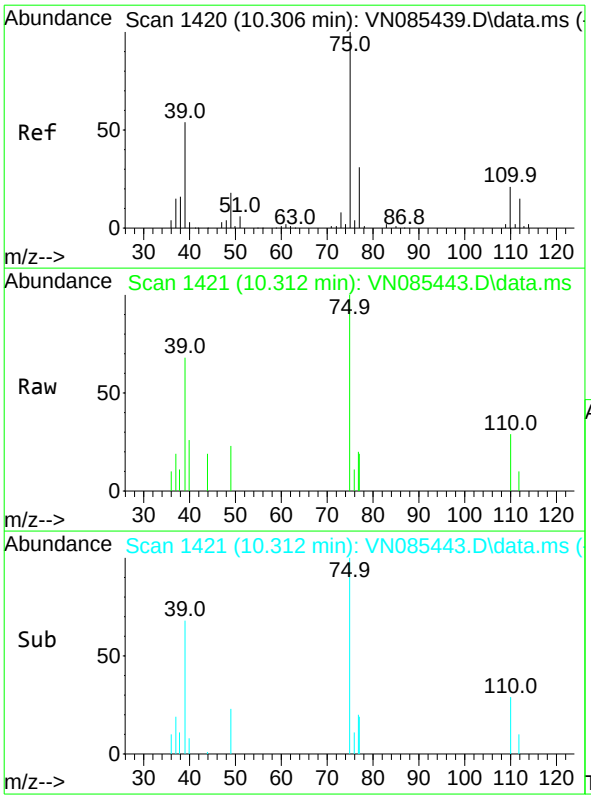


#53
t-1,3-Dichloropropene
Concen: 0.802 ug/l
RT: 10.835 min Scan# 1510
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 75 Resp: 2522

Ion	Ratio	Lower	Upper
75	100		
77	33.5	23.5	35.3

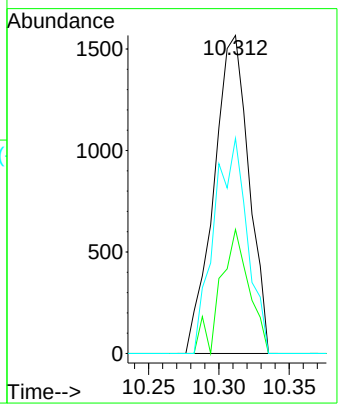




#54
cis-1,3-Dichloropropene
Concen: 0.811 ug/l
RT: 10.312 min Scan# 14
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 75 Resp: 2725

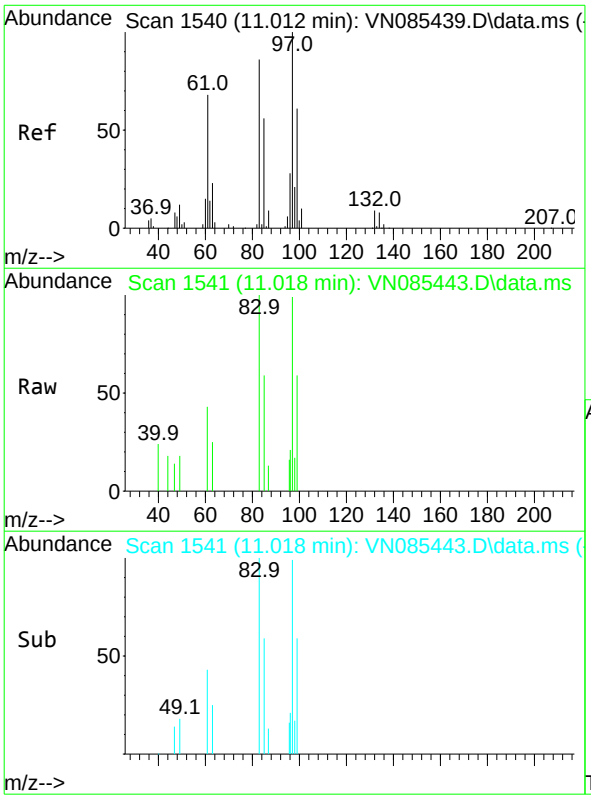
Ion	Ratio	Lower	Upper
75	100		
77	39.0	25.0	37.4#
39	67.6	43.1	64.7#



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

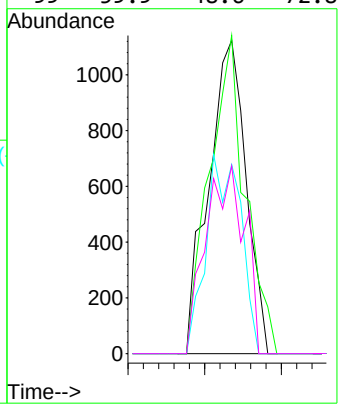
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

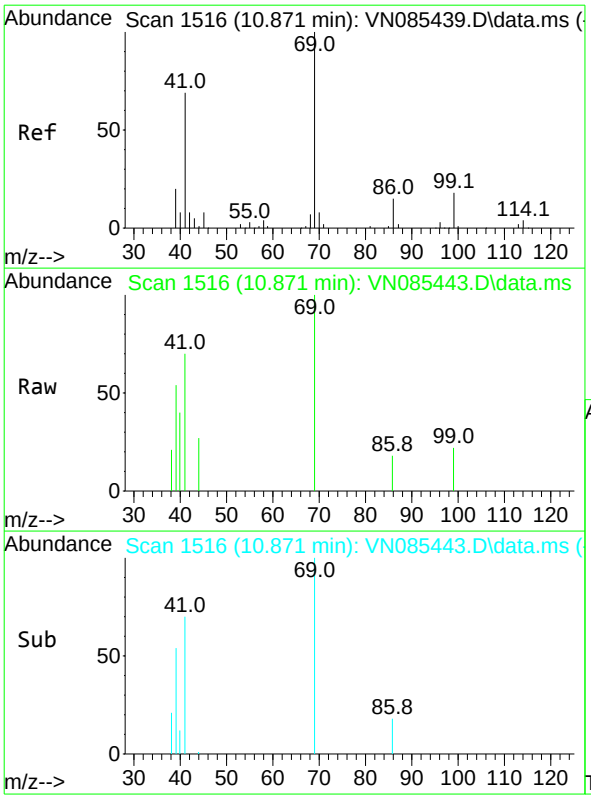


#55
1,1,2-Trichloroethane
Concen: 0.935 ug/l
RT: 11.018 min Scan# 1541
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 97 Resp: 1901

Ion	Ratio	Lower	Upper
97	100		
83	101.5	69.0	103.6
85	60.3	44.6	66.8
99	59.9	48.6	72.8





#56
Ethyl methacrylate
Concen: 2.471 ug/l
RT: 10.871 min Scan# 15
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

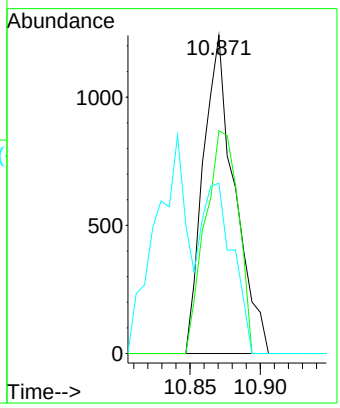
Tgt Ion: 69 Resp: 1923

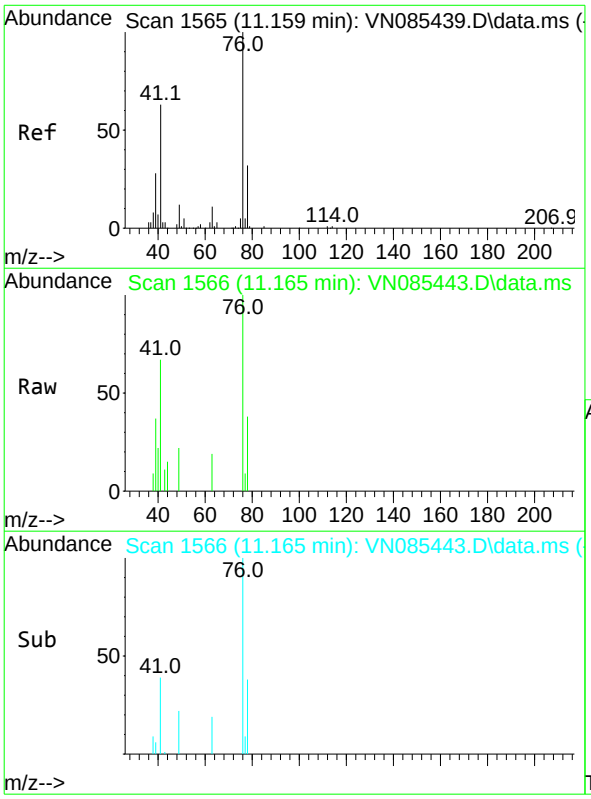
Ion	Ratio	Lower	Upper
69	100		
41	74.4	54.6	82.0
39	52.4	32.4	48.6#

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

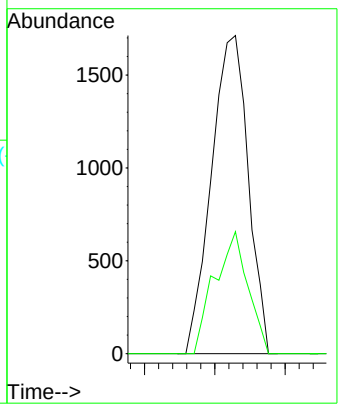


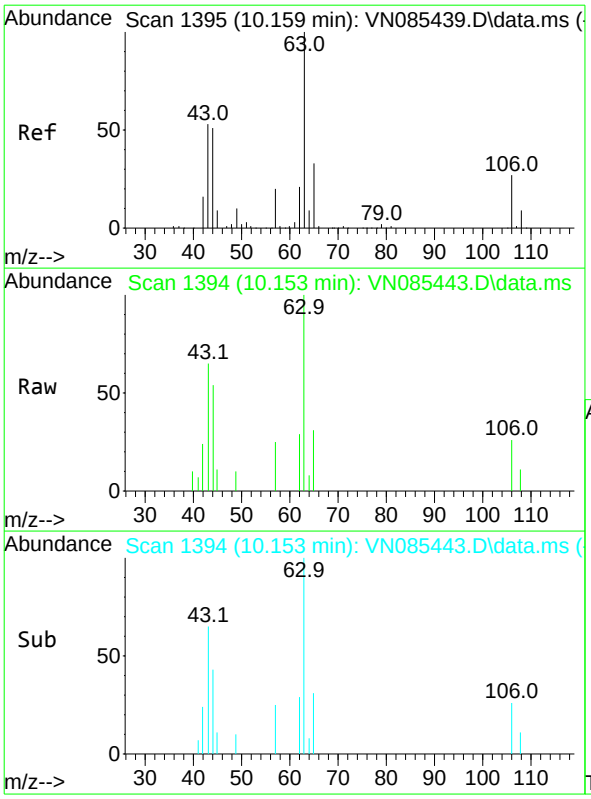


#57
1,3-Dichloropropane
Concen: 0.881 ug/l
RT: 11.165 min Scan# 1566
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 76 Resp: 3113

Ion	Ratio	Lower	Upper
76	100		
78	34.9	25.6	38.4

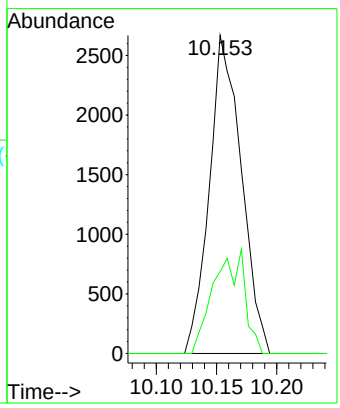




#58
2-Chloroethyl Vinyl ether
Concen: 3.822 ug/l
RT: 10.153 min Scan# 13
Delta R.T. -0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 63 Resp: 4929

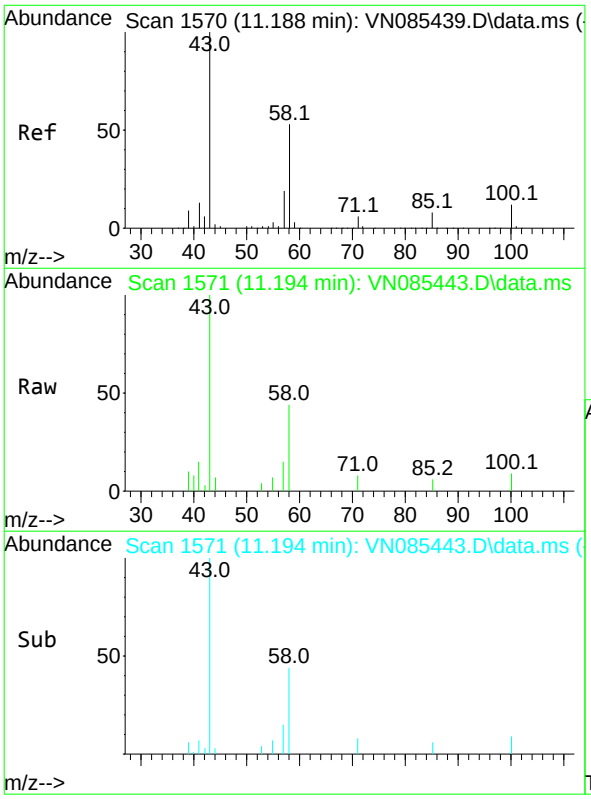
Ion	Ratio	Lower	Upper
63	100		
106	31.7	21.6	32.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

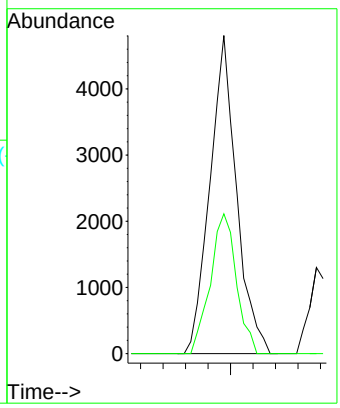
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

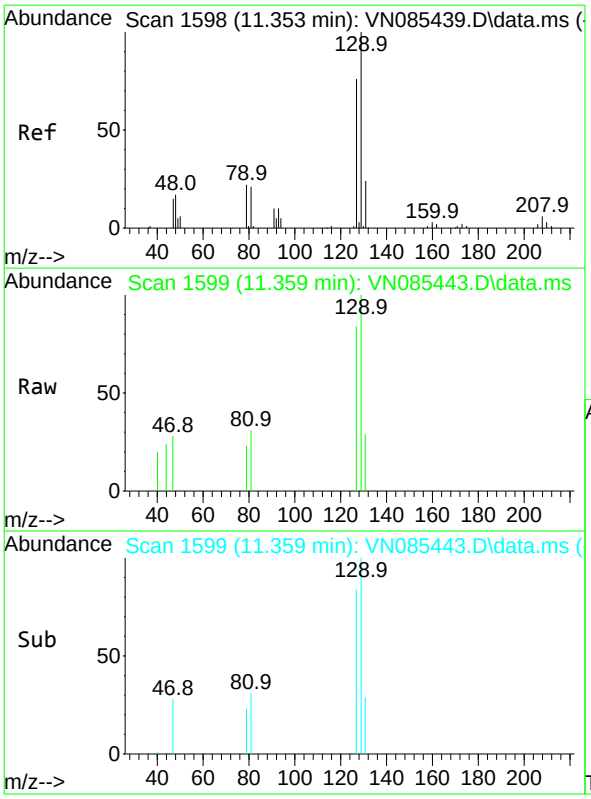


#59
2-Hexanone
Concen: 4.058 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 43 Resp: 7905

Ion	Ratio	Lower	Upper
43	100		
58	42.9	26.2	78.6

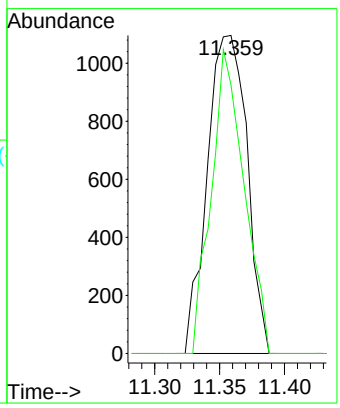




#60
Dibromochloromethane
Concen: 0.953 ug/l
RT: 11.359 min Scan# 15
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion:129 Resp: 2339

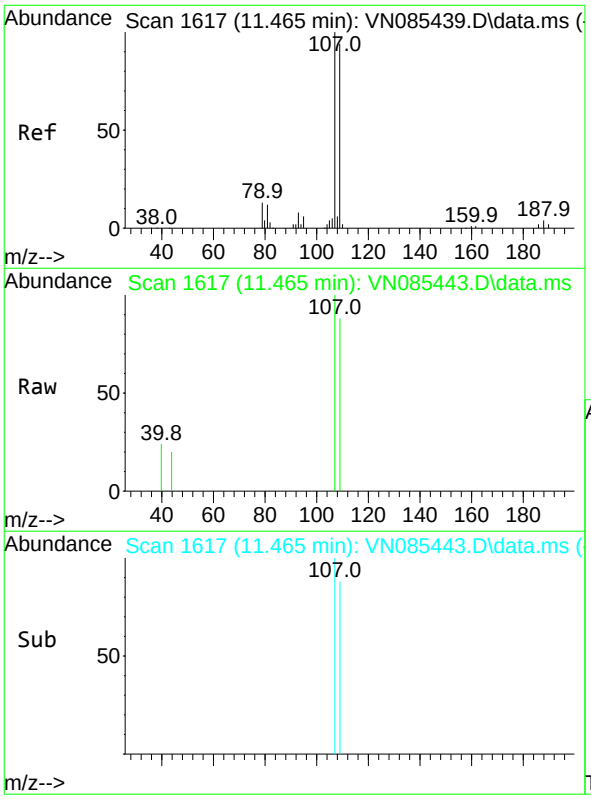
Ion	Ratio	Lower	Upper
129	100		
127	78.9	38.6	115.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

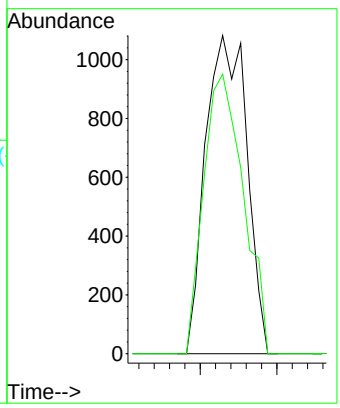
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

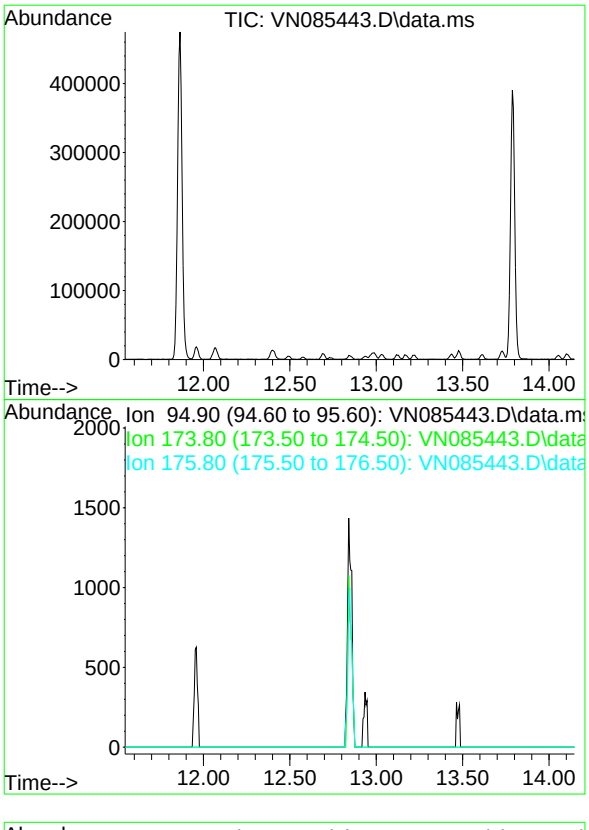


#61
1,2-Dibromoethane
Concen: 1.000 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion:107 Resp: 2022

Ion	Ratio	Lower	Upper
107	100		
109	84.8	75.9	113.9





#62
4-Bromofluorobenzene
Concen: 0.000 ug/l
Expected RT: 12.85 min

Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

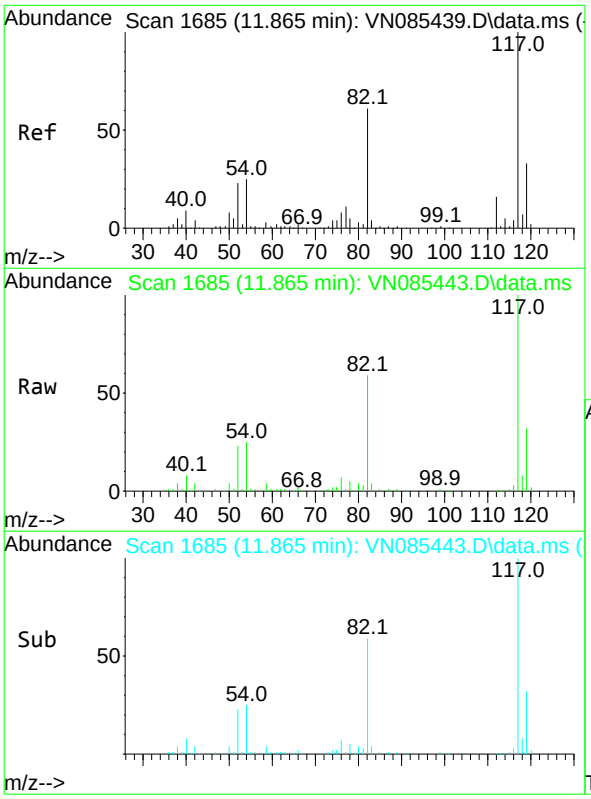
Tgt Ion: 95

Sig	Exp Ratio
95	100
174	72.5
176	71.2

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

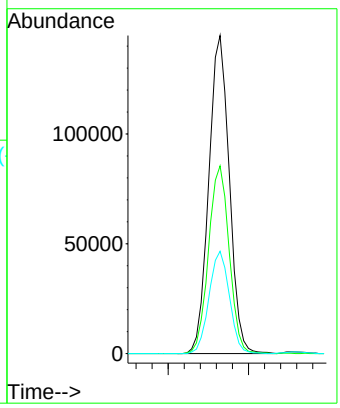
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

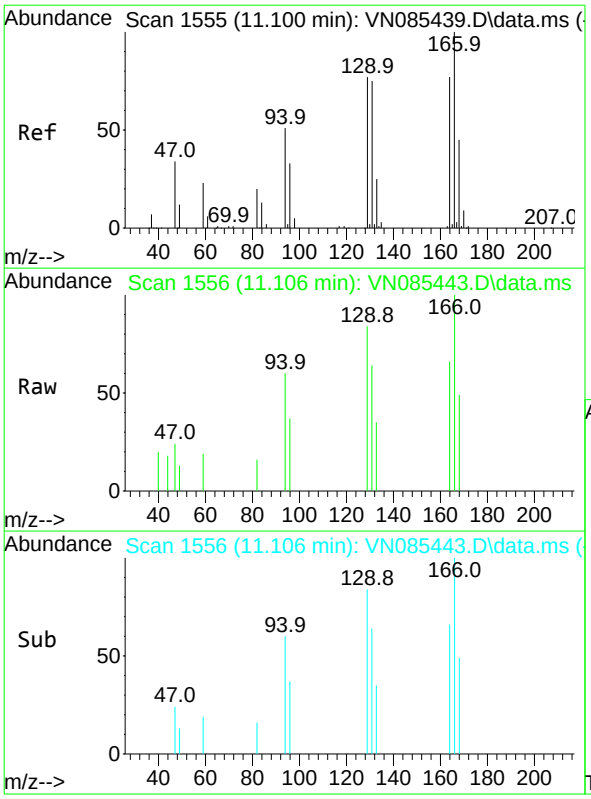


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion:117 Resp: 256851

Ion	Ratio	Lower	Upper
117	100		
82	59.0	48.6	72.8
119	32.2	26.6	39.8

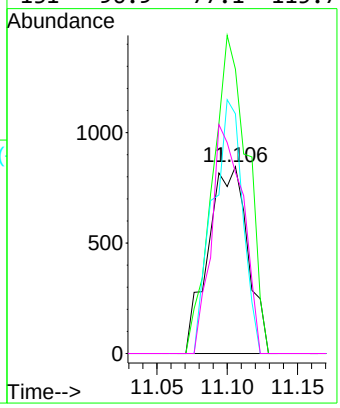




#64
Tetrachloroethene
Concen: 0.947 ug/l
RT: 11.106 min Scan# 15
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion:164 Resp: 1658

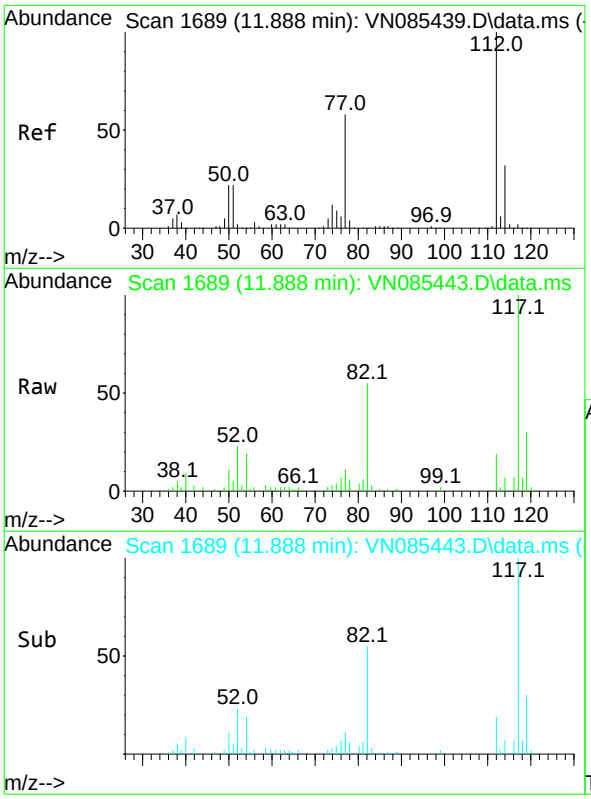
Ion	Ratio	Lower	Upper
164	100		
166	152.1	103.4	155.2
129	128.3	79.2	118.8#
131	96.9	77.1	115.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

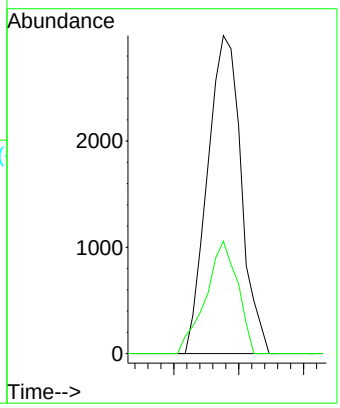
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

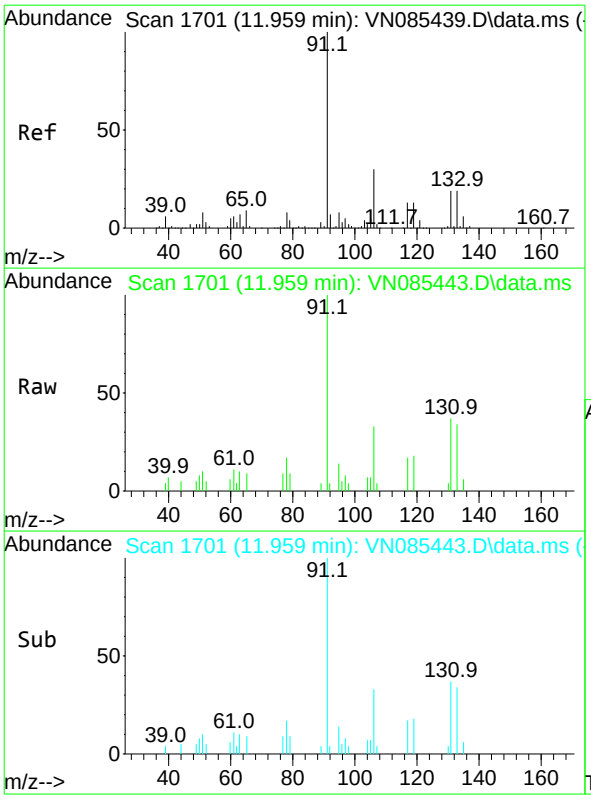


#65
Chlorobenzene
Concen: 0.960 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion:112 Resp: 5401

Ion	Ratio	Lower	Upper
112	100		
114	35.3	25.3	37.9

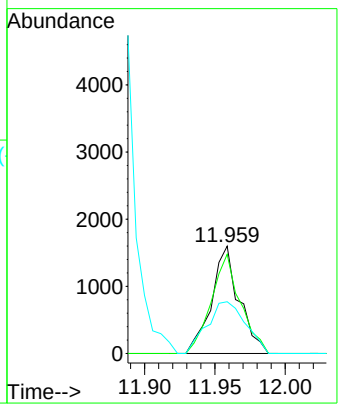




#66
1,1,1,2-Tetrachloroethane
Concen: 1.058 ug/l
RT: 11.959 min Scan# 17
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion:131 Resp: 2185

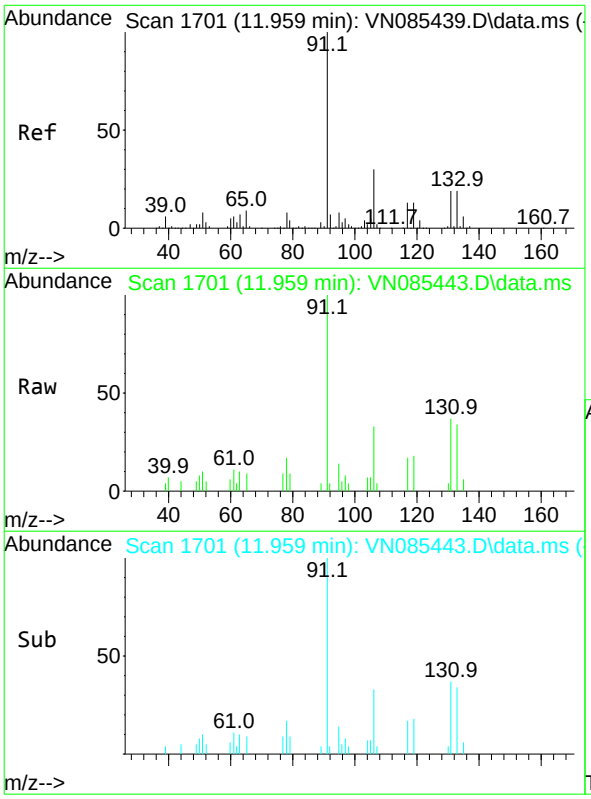
Ion	Ratio	Lower	Upper
131	100		
133	97.7	47.4	142.3
119	0.0	33.1	99.5#



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

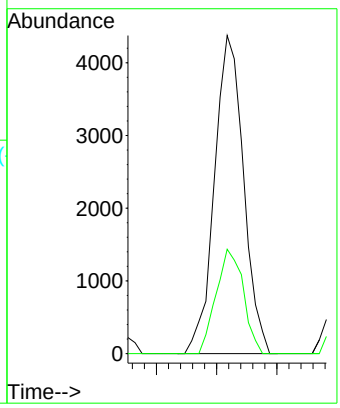
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

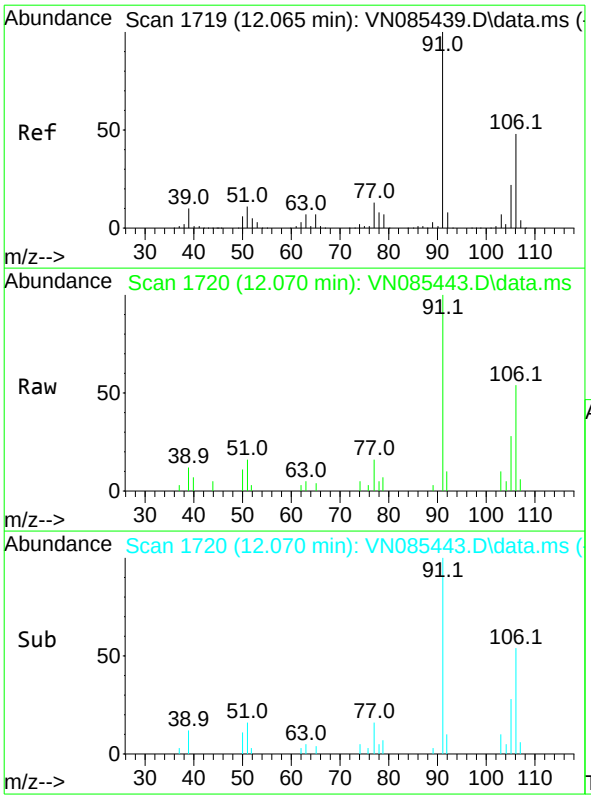


#67
Ethyl Benzene
Concen: 0.802 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 91 Resp: 7347

Ion	Ratio	Lower	Upper
91	100		
106	32.8	23.8	35.8

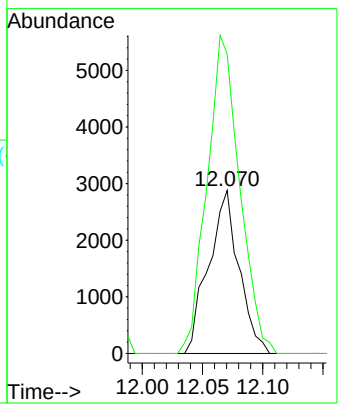




#68
m/p-Xylenes
Concen: 1.494 ug/l
RT: 12.070 min Scan# 17
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion:106 Resp: 5059

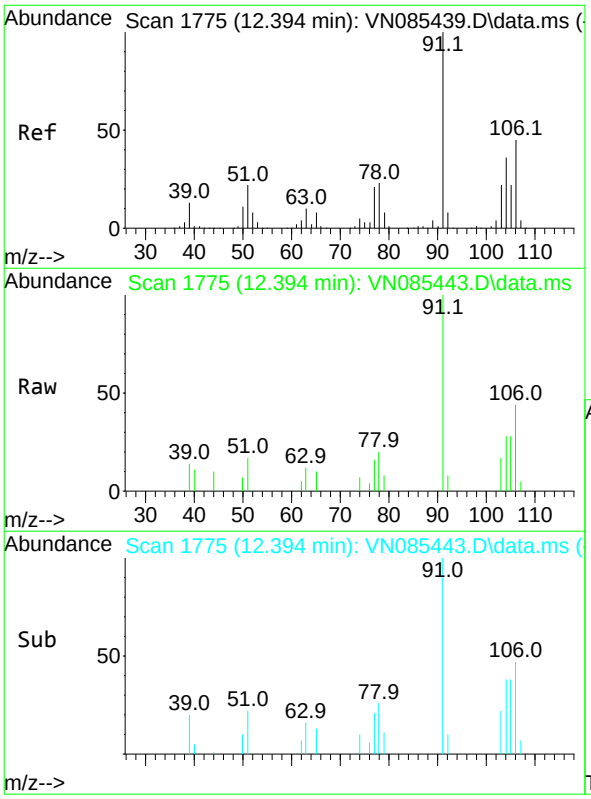
Ion	Ratio	Lower	Upper
106	100		
91	209.3	167.7	251.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

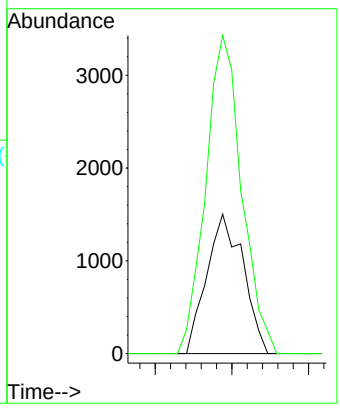
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

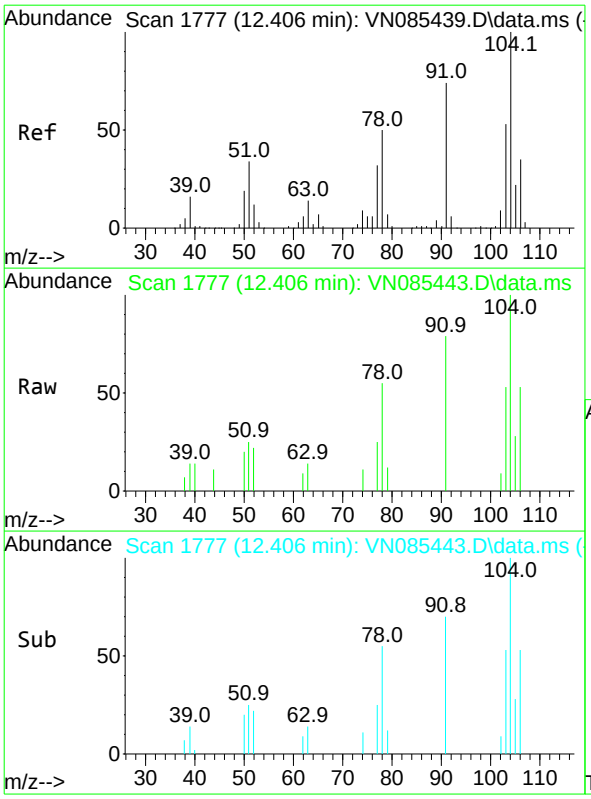


#69
o-Xylene
Concen: 0.766 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion:106 Resp: 2478

Ion	Ratio	Lower	Upper
106	100		
91	225.4	110.4	331.2

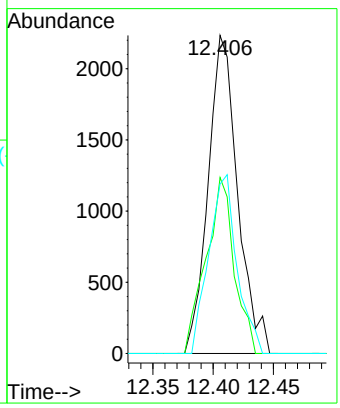




#70
Styrene
Concen: 0.712 ug/l
RT: 12.406 min Scan# 17
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion:104 Resp: 3812

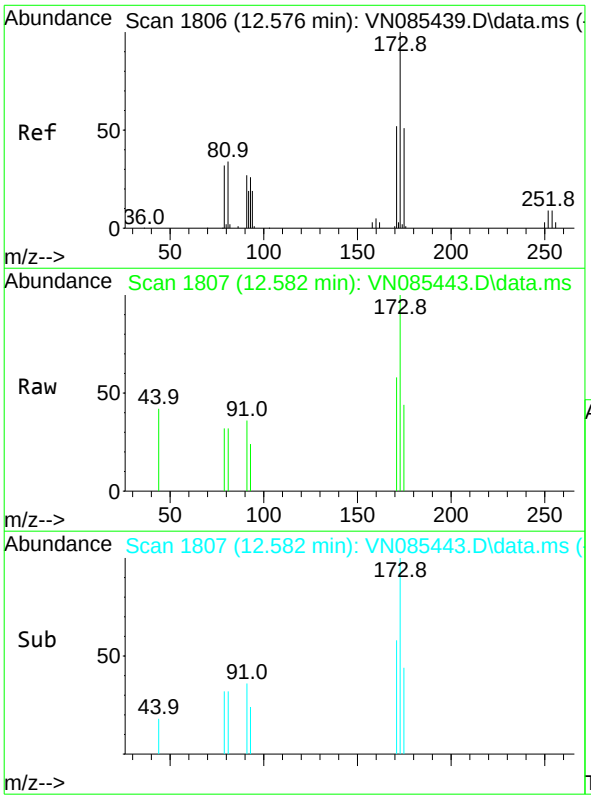
Ion	Ratio	Lower	Upper
104	100		
78	52.9	42.5	63.7
103	53.7	43.8	65.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

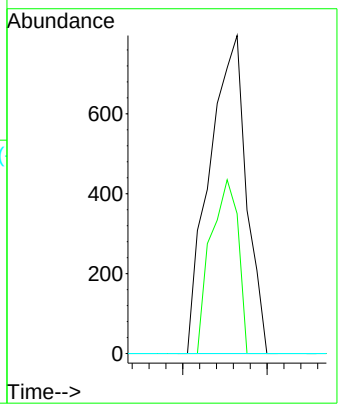
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

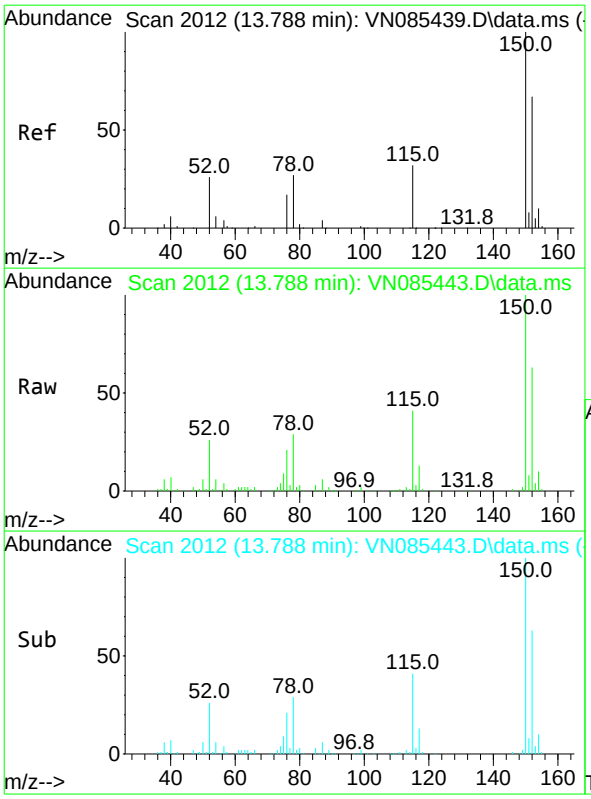


#71
Bromoform
Concen: 0.818 ug/l
RT: 12.582 min Scan# 1807
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion:173 Resp: 1208

Ion	Ratio	Lower	Upper
173	100		
175	40.7	24.4	73.2
254	0.0	0.0	0.0

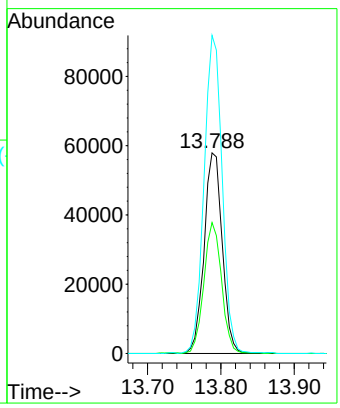




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion:152 Resp: 99539

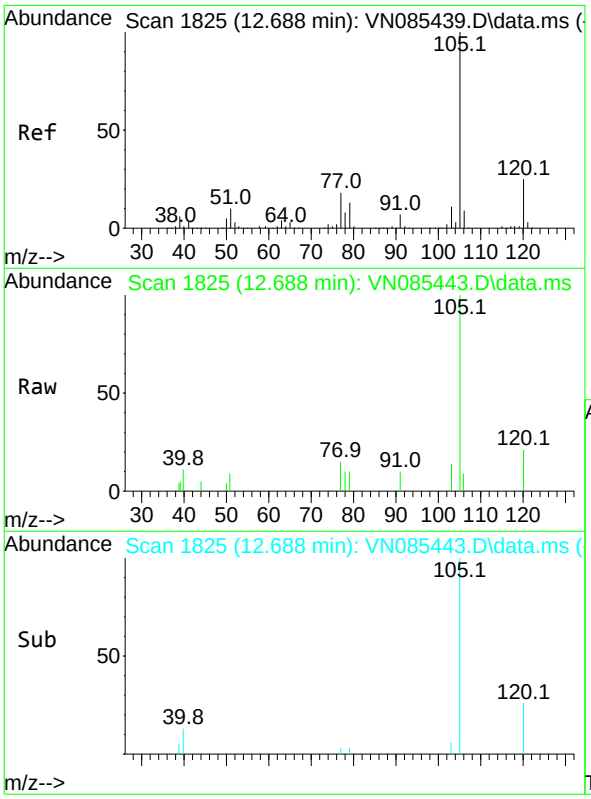
Ion	Ratio	Lower	Upper
152	100		
115	63.8	31.1	93.3
150	158.5	0.0	343.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

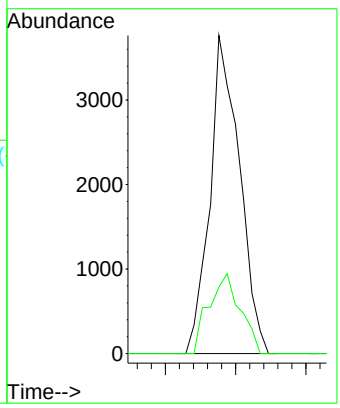
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

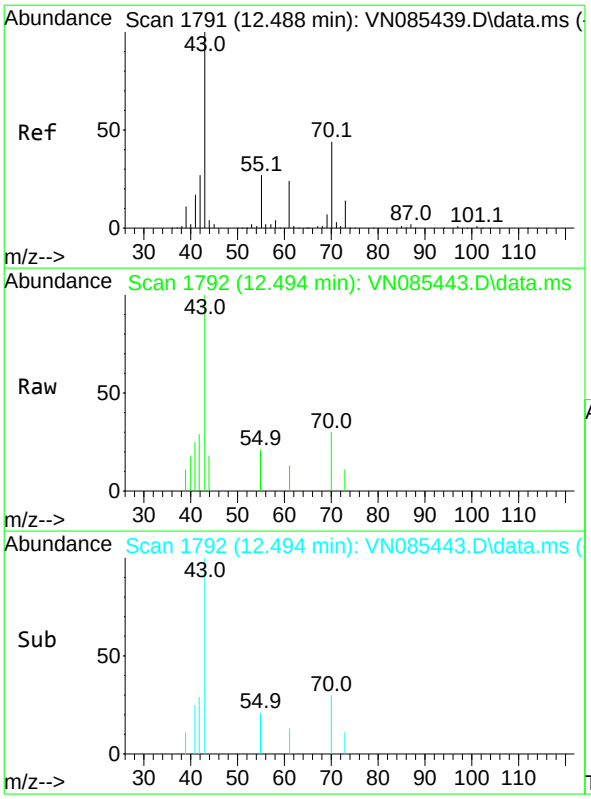


#73
Isopropylbenzene
Concen: 0.820 ug/l
RT: 12.688 min Scan# 1825
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion:105 Resp: 5506

Ion	Ratio	Lower	Upper
105	100		
120	26.7	12.8	38.3

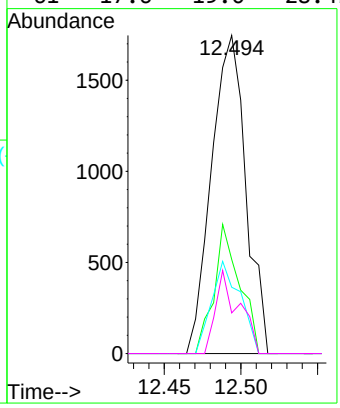




#74
N-amyl acetate
Concen: 0.899 ug/l
RT: 12.494 min Scan# 17
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 43 Resp: 2716

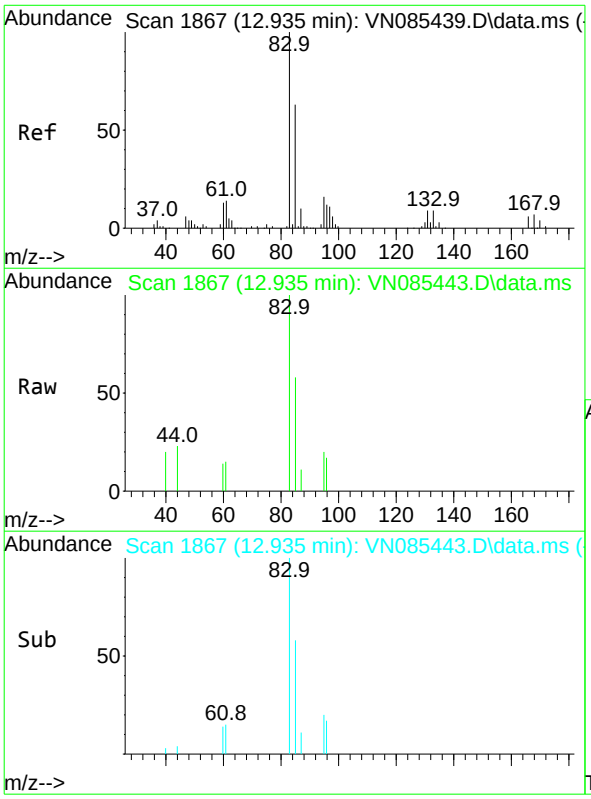
Ion	Ratio	Lower	Upper
43	100		
70	30.4	34.0	51.0#
55	24.2	21.4	32.2
61	17.6	19.0	28.4#



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

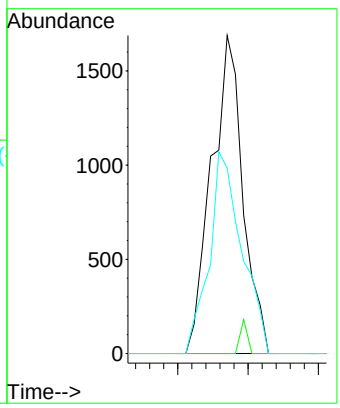
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

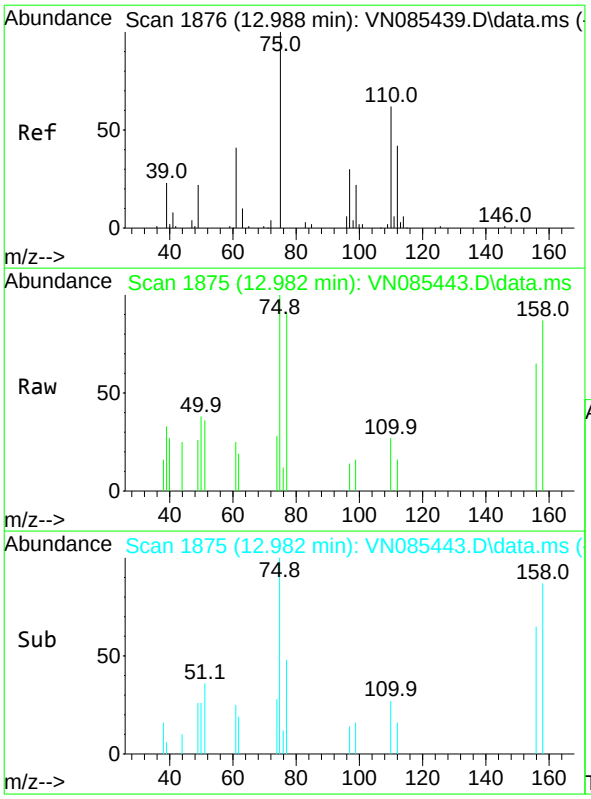


#75
1,1,2,2-Tetrachloroethane
Concen: 1.102 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 83 Resp: 2616

Ion	Ratio	Lower	Upper
83	100		
131	2.4	4.8	14.4#
85	65.7	32.2	96.6

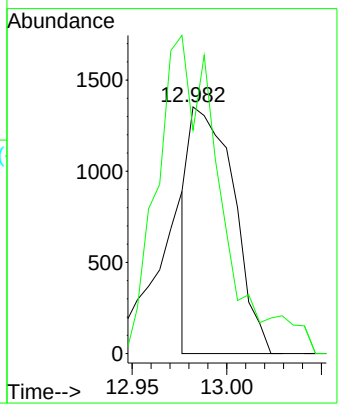




#76
1,2,3-Trichloropropane
Concen: 1.088 ug/l m
RT: 12.982 min Scan# 18
Delta R.T. -0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 75 Resp: 2198

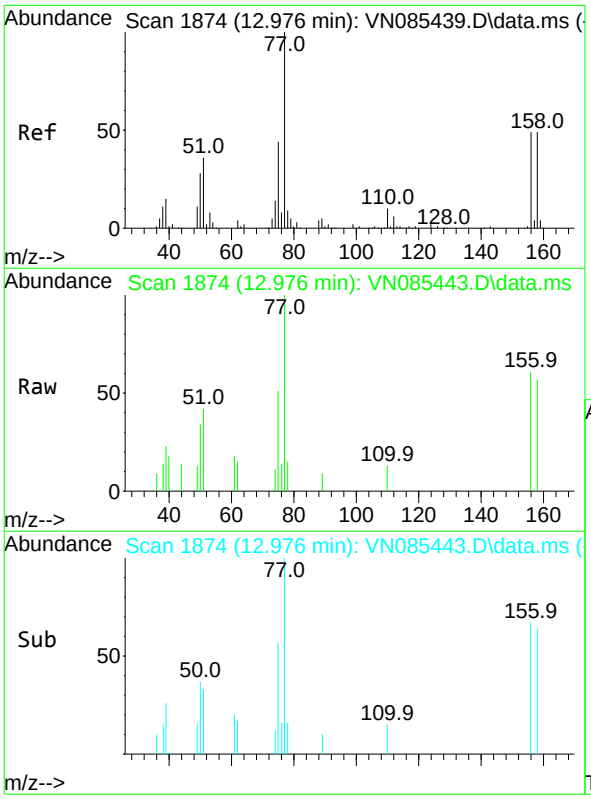
Ion	Ratio	Lower	Upper
75	100		
77	184.2	109.7	329.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

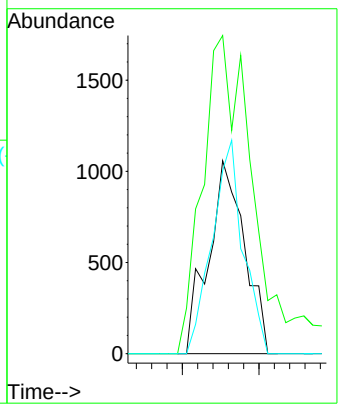
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

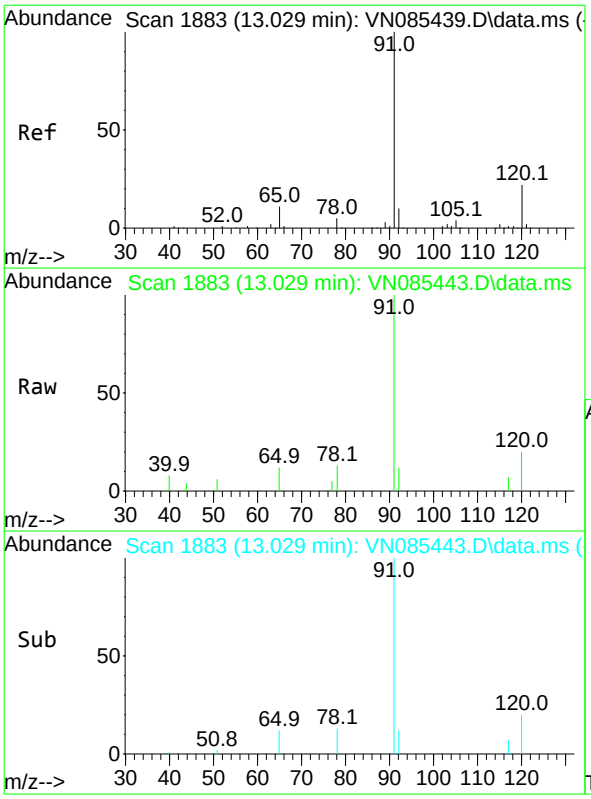


#77
Bromobenzene
Concen: 0.987 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion:156 Resp: 1733

Ion	Ratio	Lower	Upper
156	100		
77	233.6	114.1	342.4
158	94.9	48.9	146.8

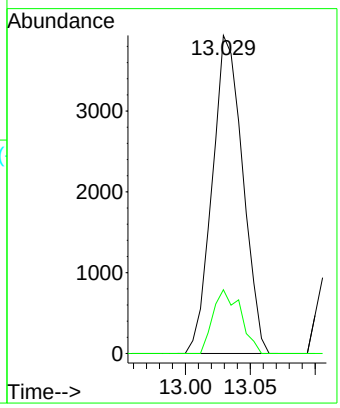




#78
n-propylbenzene
Concen: 0.808 ug/l
RT: 13.029 min Scan# 18
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 91 Resp: 6424

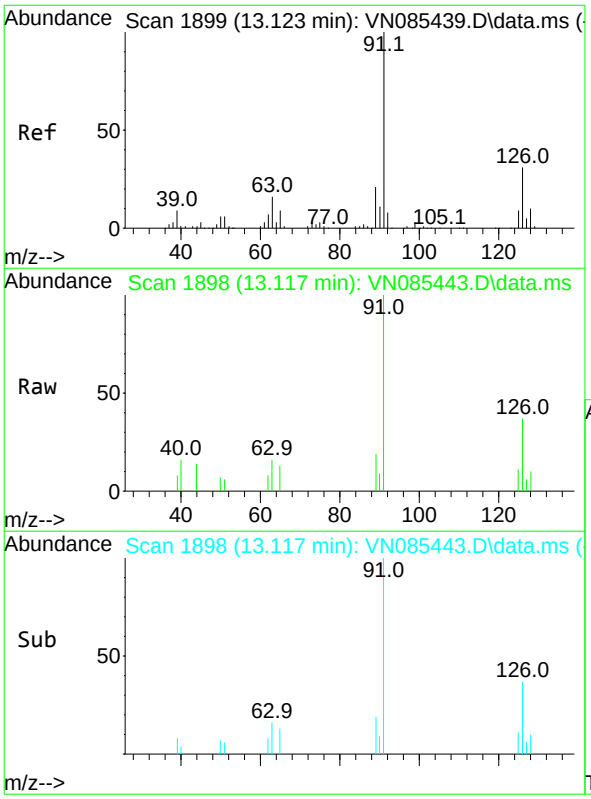
Ion	Ratio	Lower	Upper
91	100		
120	18.2	10.9	32.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

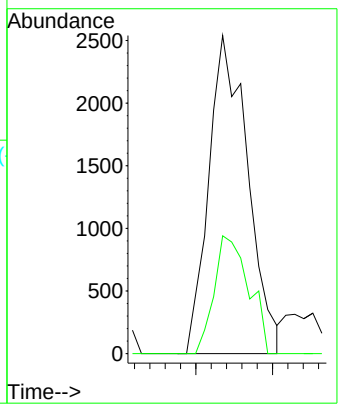
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

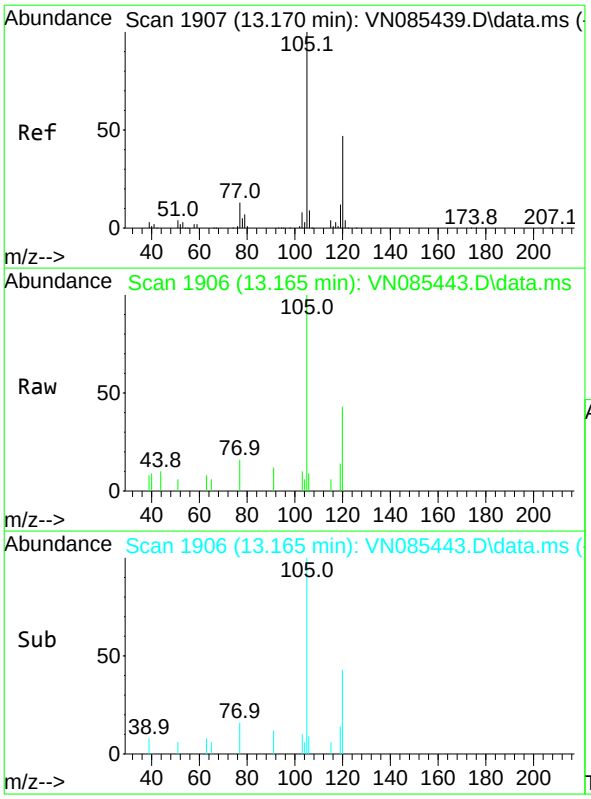


#79
2-Chlorotoluene
Concen: 0.871 ug/l
RT: 13.117 min Scan# 1898
Delta R.T. -0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 91 Resp: 4483

Ion	Ratio	Lower	Upper
91	100		
126	32.9	15.7	47.1

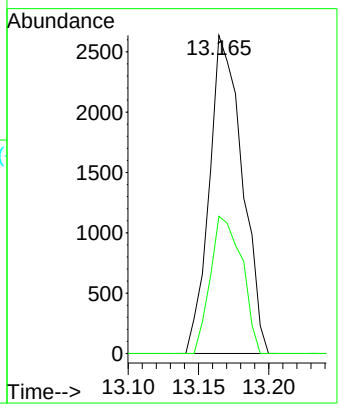




#80
1,3,5-Trimethylbenzene
Concen: 0.775 ug/l
RT: 13.165 min Scan# 19
Delta R.T. -0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion:105 Resp: 4301

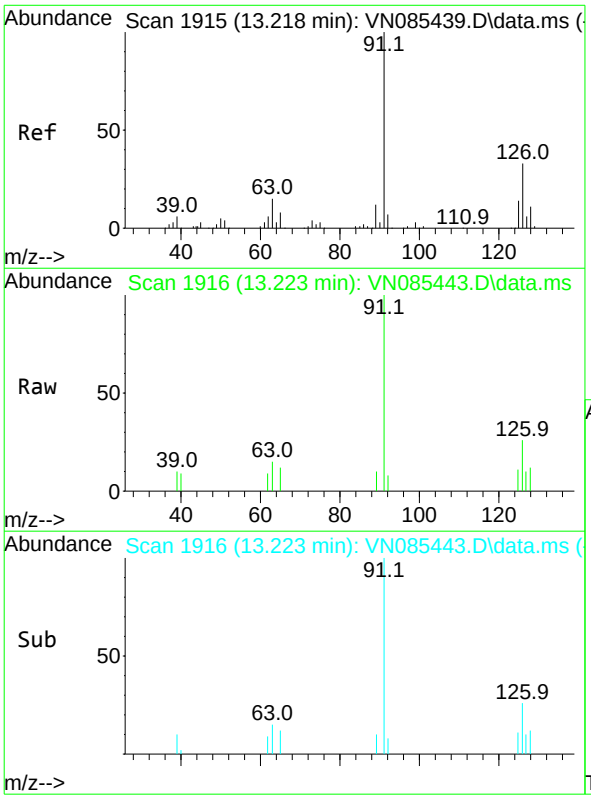
Ion	Ratio	Lower	Upper
105	100		
120	41.2	23.9	71.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

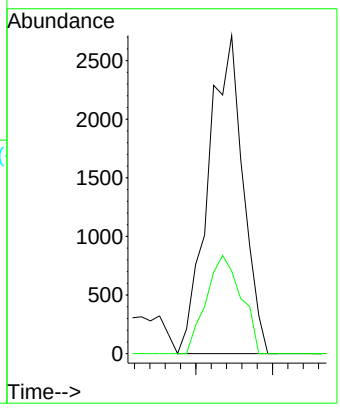
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

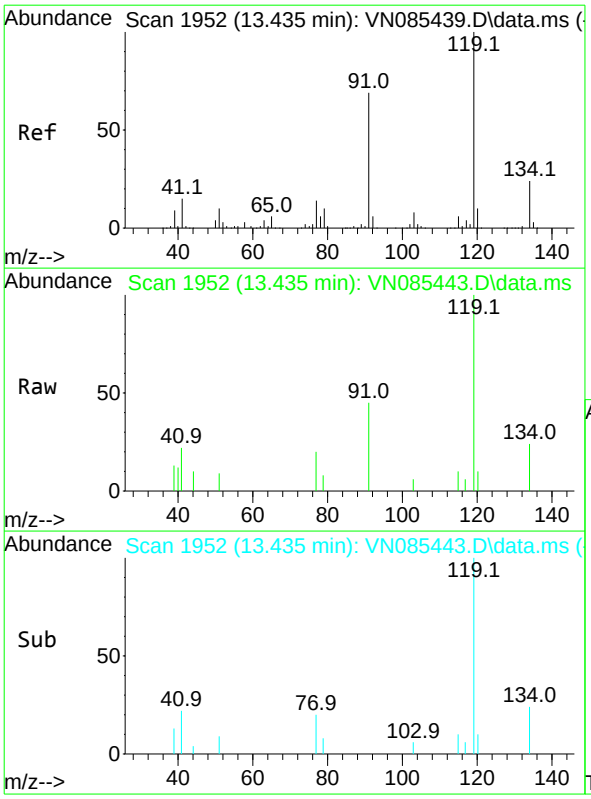


#82
4-Chlorotoluene
Concen: 0.833 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 91 Resp: 4268

Ion	Ratio	Lower	Upper
91	100		
126	31.0	15.9	47.7

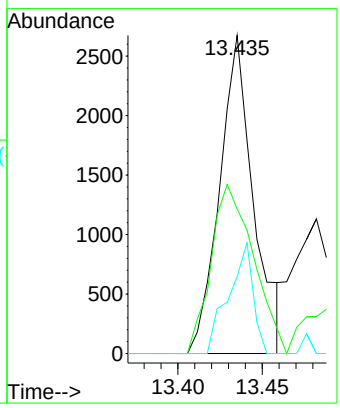




#83
tert-Butylbenzene
Concen: 0.805 ug/l
RT: 13.435 min Scan# 19
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion:119 Resp: 3753

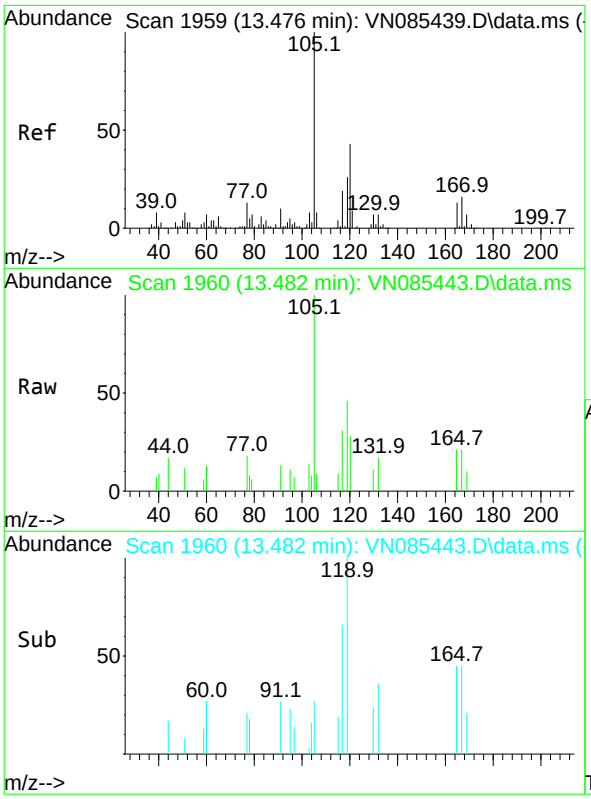
Ion	Ratio	Lower	Upper
119	100		
91	65.9	35.1	105.3
134	24.9	12.0	36.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

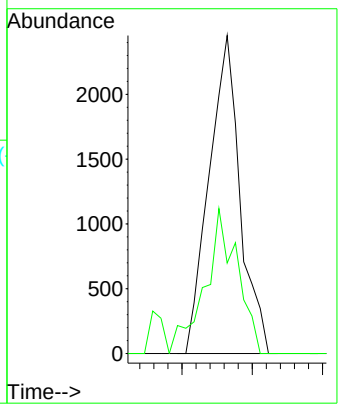
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

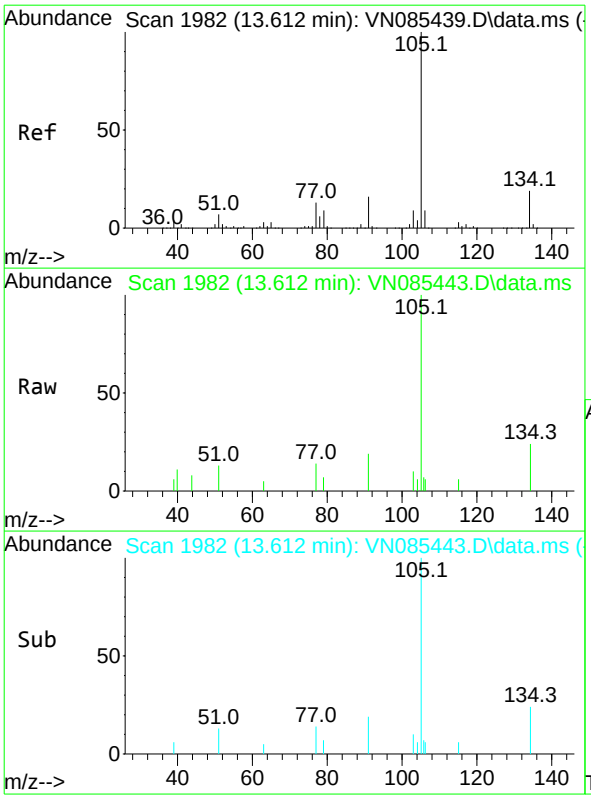


#84
1,2,4-Trimethylbenzene
Concen: 0.679 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion:105 Resp: 3758

Ion	Ratio	Lower	Upper
105	100		
120	47.7	21.6	65.0

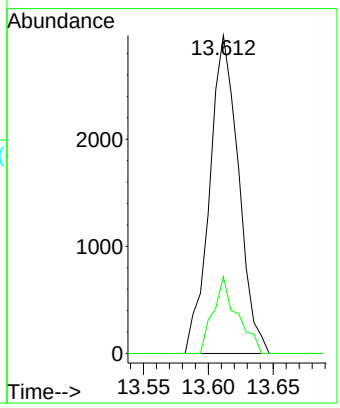




#85
sec-Butylbenzene
Concen: 0.714 ug/l
RT: 13.612 min Scan# 19
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion:105 Resp: 4614

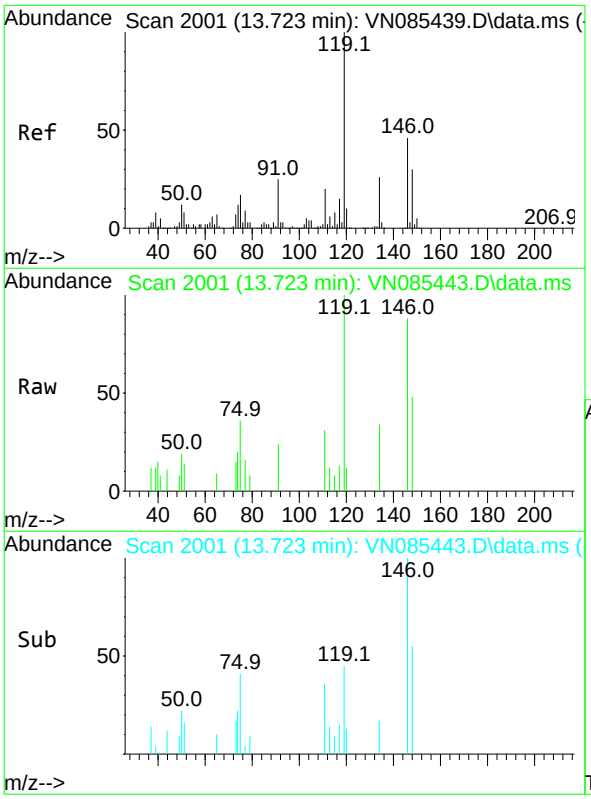
Ion	Ratio	Lower	Upper
105	100		
134	19.9	9.7	28.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

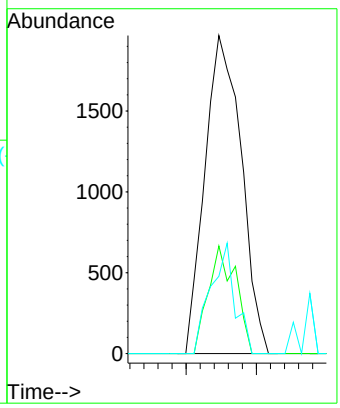
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

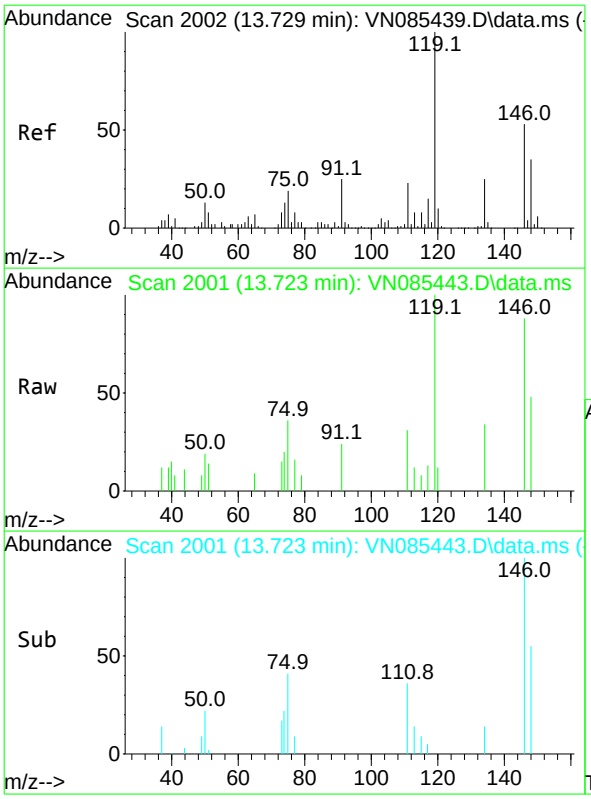


#86
p-Isopropyltoluene
Concen: 0.716 ug/l
RT: 13.723 min Scan# 2001
Delta R.T. 0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion:119 Resp: 3538

Ion	Ratio	Lower	Upper
119	100		
134	25.6	12.7	38.0
91	23.2	12.7	38.1

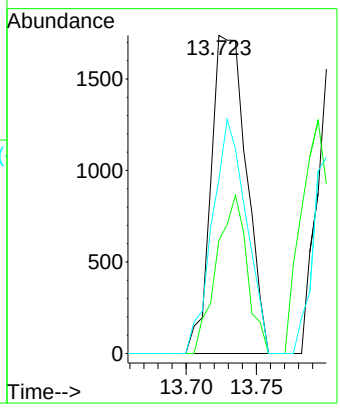




#87
1,3-Dichlorobenzene
Concen: 0.940 ug/l
RT: 13.723 min Scan# 20
Delta R.T. -0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion:146 Resp: 3038

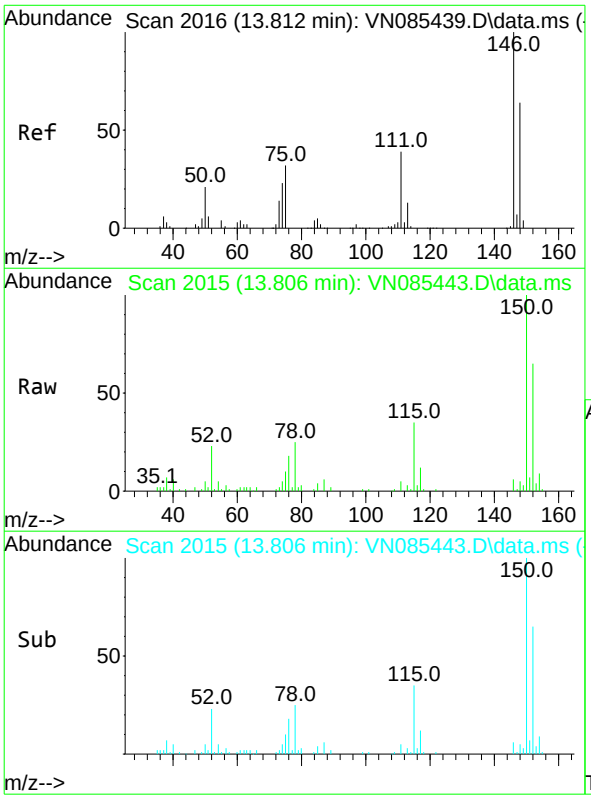
Ion	Ratio	Lower	Upper
146	100		
111	43.0	21.4	64.3
148	70.9	32.3	96.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

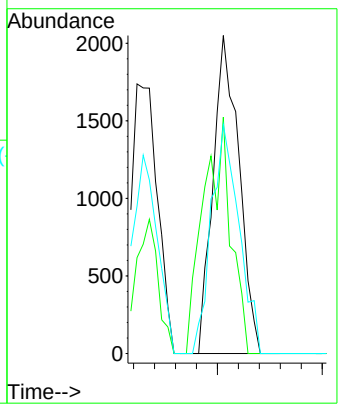
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

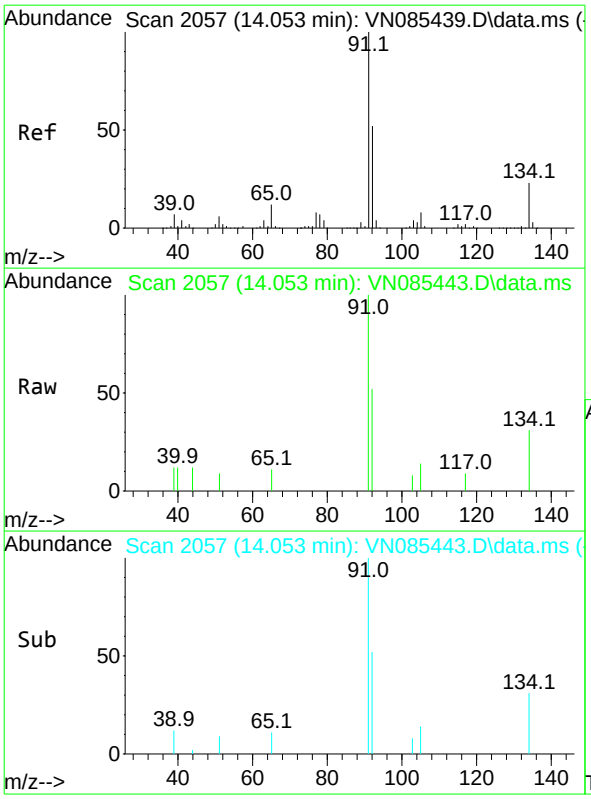


#88
1,4-Dichlorobenzene
Concen: 1.050 ug/l m
RT: 13.806 min Scan# 2015
Delta R.T. -0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion:146 Resp: 3517

Ion	Ratio	Lower	Upper
146	100		
111	37.2	21.3	63.7
148	61.2	32.4	97.0

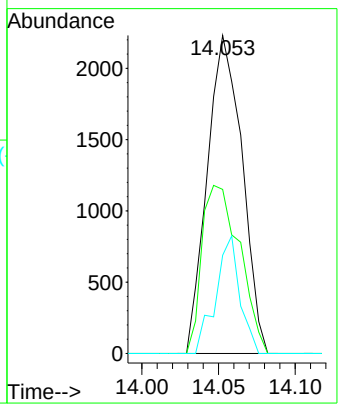




#89
n-Butylbenzene
Concen: 0.761 ug/l
RT: 14.053 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 91 Resp: 3527

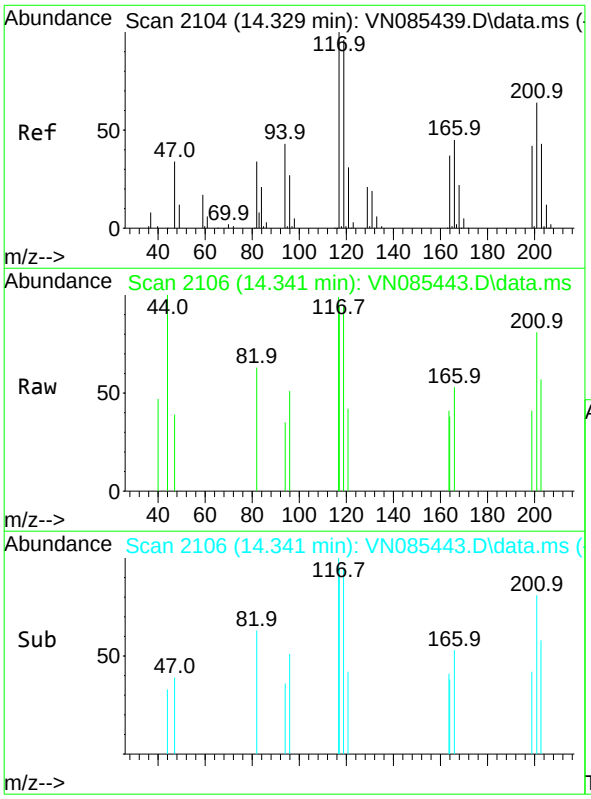
Ion	Ratio	Lower	Upper
91	100		
92	57.2	25.8	77.3
134	25.5	11.7	35.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

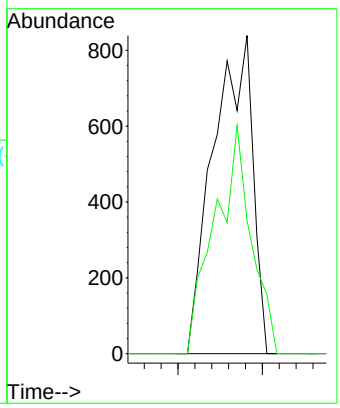
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

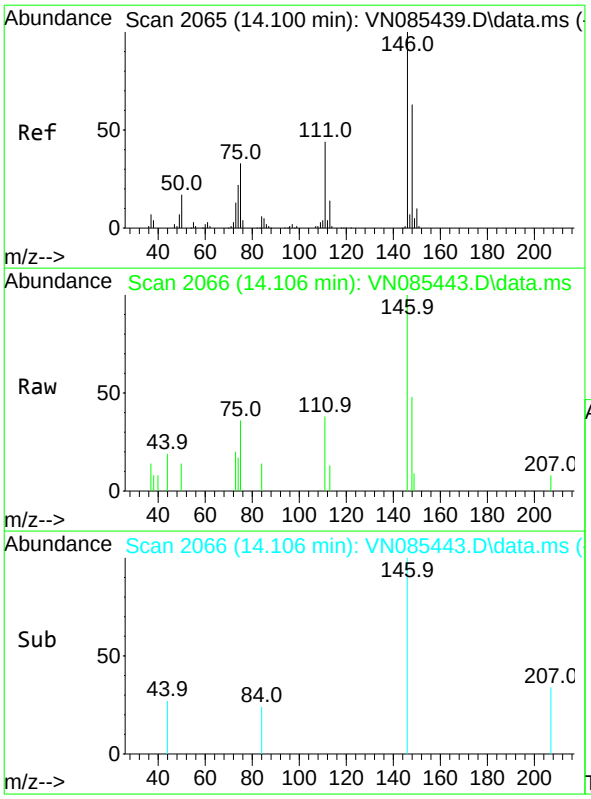


#90
Hexachloroethane
Concen: 1.102 ug/l
RT: 14.341 min Scan# 2106
Delta R.T. 0.012 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion:117 Resp: 1355

Ion	Ratio	Lower	Upper
117	100		
201	66.5	33.7	101.0

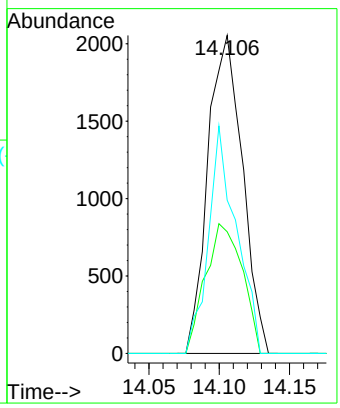




#91
1,2-Dichlorobenzene
Concen: 1.090 ug/l
RT: 14.106 min Scan# 20
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion:146 Resp: 3515

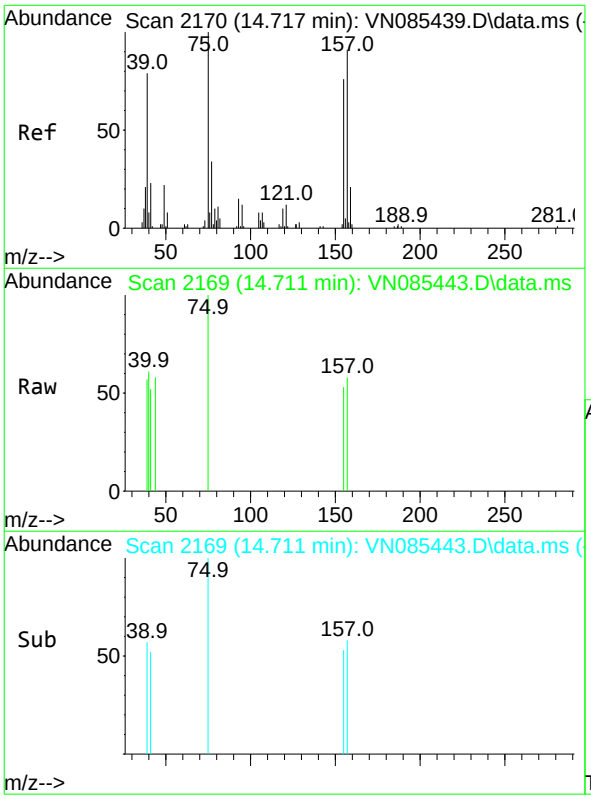
Ion	Ratio	Lower	Upper
146	100		
111	43.4	21.7	65.1
148	57.8	31.4	94.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

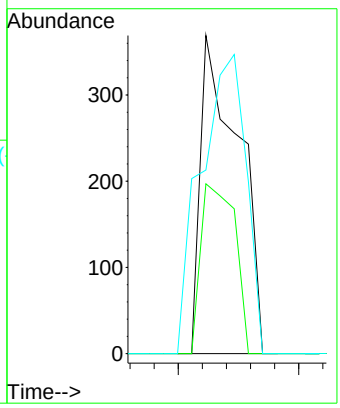
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

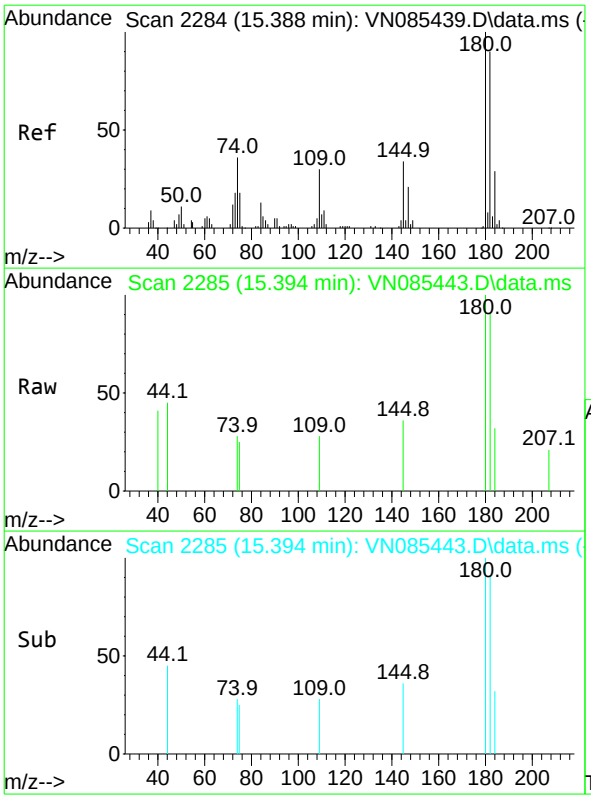


#92
1,2-Dibromo-3-Chloropropane
Concen: 0.928 ug/l
RT: 14.711 min Scan# 2169
Delta R.T. -0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 75 Resp: 402

Ion	Ratio	Lower	Upper
75	100		
155	48.0	36.4	109.2
157	112.7	45.4	136.1

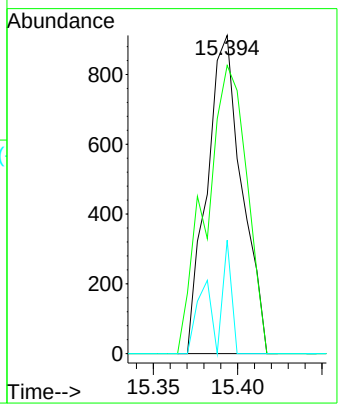




#93
1,2,4-Trichlorobenzene
Concen: 0.874 ug/l
RT: 15.394 min Scan# 22
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion:180 Resp: 1310

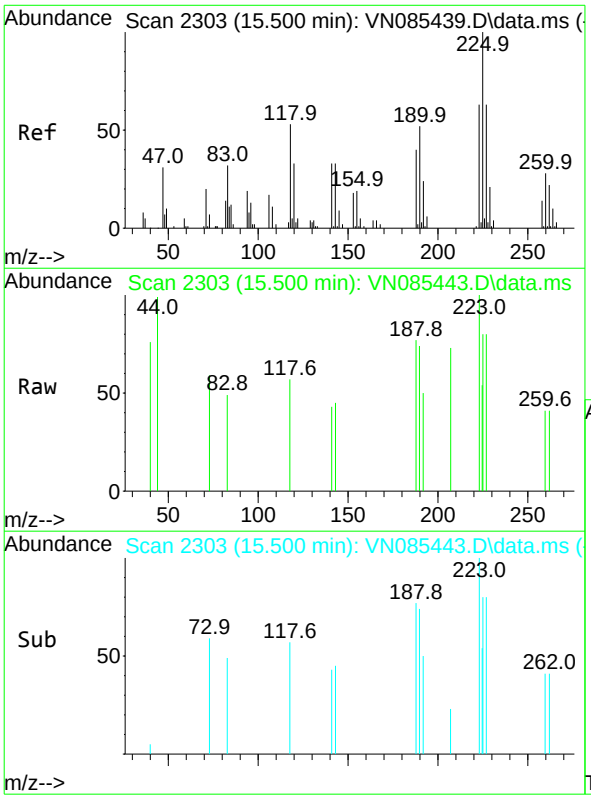
Ion	Ratio	Lower	Upper
180	100		
182	106.3	46.8	140.3
145	9.7	16.0	48.0#



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

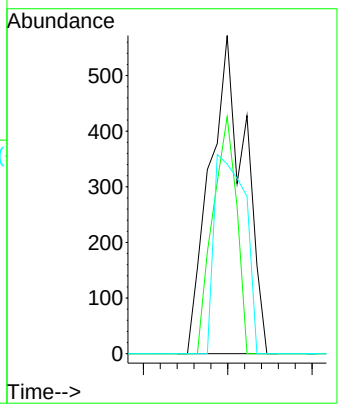
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

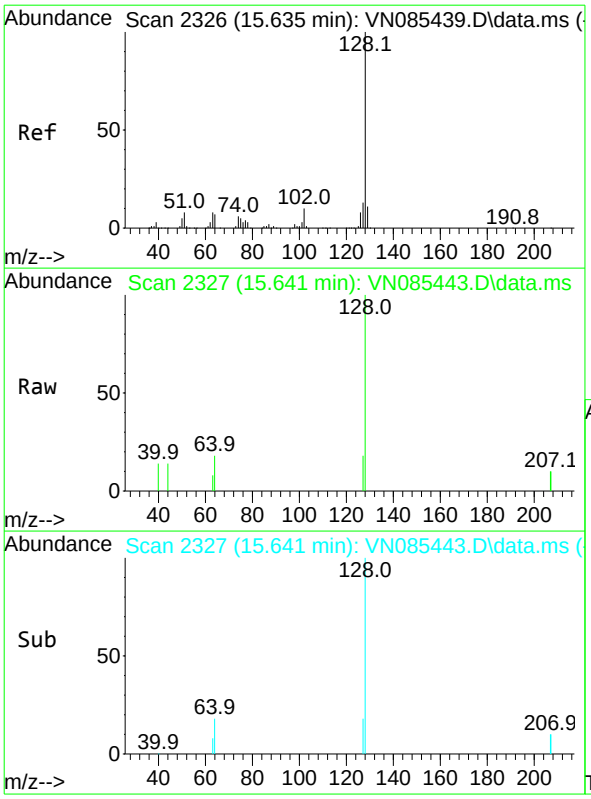


#94
Hexachlorobutadiene
Concen: 1.033 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion:225 Resp: 822

Ion	Ratio	Lower	Upper
225	100		
223	50.7	30.7	92.1
227	55.7	30.9	92.5

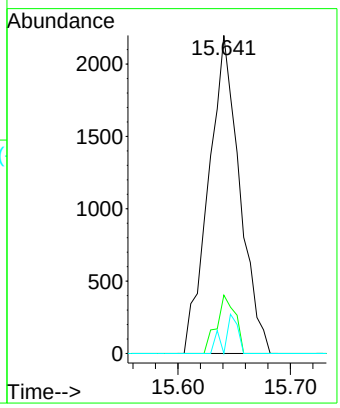




#95
Naphthalene
Concen: 0.941 ug/l
RT: 15.641 min Scan# 23
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion:128 Resp: 4210

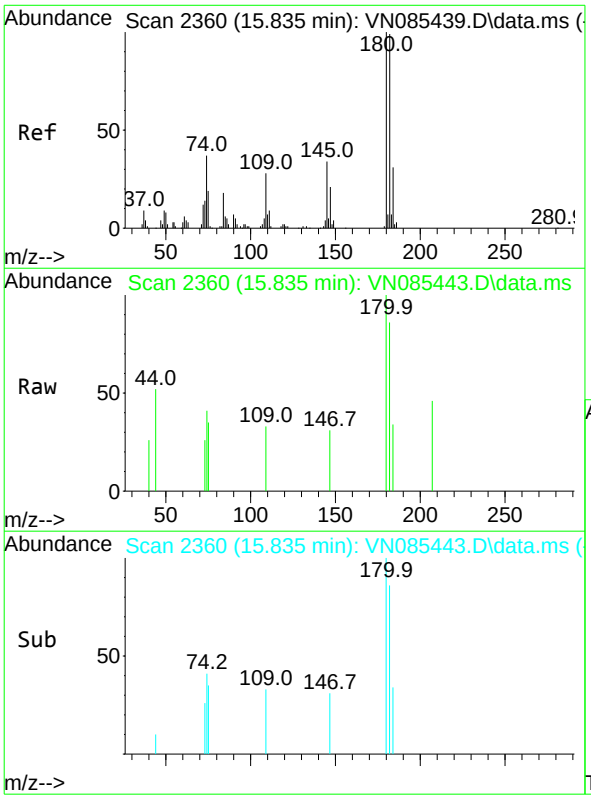
Ion	Ratio	Lower	Upper
128	100		
127	11.1	10.6	16.0
129	5.3	8.8	13.2#



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

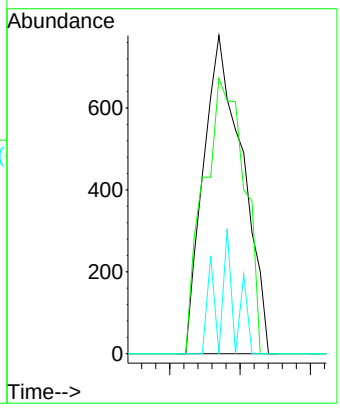
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#96
1,2,3-Trichlorobenzene
Concen: 0.985 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion:180 Resp: 1494

Ion	Ratio	Lower	Upper
180	100		
182	90.2	47.4	142.2
145	11.8	16.9	50.7#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085445.D
Acq On : 14 Jan 2025 18:06
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 15 02:20:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Manual Integrations APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.218	168	219757	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	370487	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	320948	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	158525	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	176594	49.782	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 99.560%			
35) Dibromofluoromethane	8.165	113	130487	50.768	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.540%			
50) Toluene-d8	10.565	98	477630	52.302	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 104.600%			
62) 4-Bromofluorobenzene	12.847	95	165249	52.899	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 105.800%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	130242	43.772	ug/l	100
3) Chloromethane	2.360	50	138152	42.883	ug/l	99
4) Vinyl Chloride	2.513	62	138316	42.715	ug/l	99
5) Bromomethane	2.954	94	80019	40.910	ug/l	91
6) Chloroethane	3.124	64	86837	42.299	ug/l	99
7) Trichlorofluoromethane	3.501	101	206526	43.956	ug/l	99
8) Diethyl Ether	3.959	74	69545	42.846	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.371	101	118310	44.706	ug/l	98
10) Methyl Iodide	4.595	142	140190	46.259	ug/l	98
11) Tert butyl alcohol	5.518	59	83933	206.633	ug/l	99
12) 1,1-Dichloroethene	4.342	96	106880	45.317	ug/l	98
13) Acrolein	4.177	56	135720	244.765	ug/l	99
14) Allyl chloride	5.024	41	170308	44.501	ug/l	99
15) Acrylonitrile	5.712	53	294062	227.920	ug/l	99
16) Acetone	4.418	43	245248	213.971	ug/l	98
17) Carbon Disulfide	4.712	76	300215	41.342	ug/l	100
18) Methyl Acetate	5.018	43	156938	45.028	ug/l	100
19) Methyl tert-butyl Ether	5.795	73	365819	47.768	ug/l	100
20) Methylene Chloride	5.271	84	122059	43.017	ug/l	98
21) trans-1,2-Dichloroethene	5.783	96	112597	44.672	ug/l	93
22) Diisopropyl ether	6.665	45	399206	46.996	ug/l	99
23) Vinyl Acetate	6.601	43	1471068	247.459	ug/l	100
24) 1,1-Dichloroethane	6.571	63	228489	44.114	ug/l	98
25) 2-Butanone	7.477	43	386125	228.924	ug/l	100
26) 2,2-Dichloropropane	7.489	77	199303	47.593	ug/l	99
27) cis-1,2-Dichloroethene	7.483	96	134920	45.446	ug/l	98
28) Bromochloromethane	7.812	49	106323	44.122	ug/l	100
29) Tetrahydrofuran	7.836	42	255650	239.065	ug/l	99
30) Chloroform	7.965	83	235923	44.071	ug/l	98
31) Cyclohexane	8.253	56	193034	42.878	ug/l	93
32) 1,1,1-Trichloroethane	8.165	97	208172	44.332	ug/l	99
36) 1,1-Dichloropropene	8.365	75	161834	44.863	ug/l	98
37) Ethyl Acetate	7.559	43	160656	44.123	ug/l	97
38) Carbon Tetrachloride	8.359	117	183592	44.456	ug/l	99
39) Methylcyclohexane	9.600	83	168431	49.687	ug/l	98
40) Benzene	8.600	78	494871	45.657	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085445.D
Acq On : 14 Jan 2025 18:06
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 15 02:20:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Manual Integrations APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.777	41	89326	47.155	ug/l		99
42) 1,2-Dichloroethane	8.665	62	185663	45.481	ug/l		100
43) Isopropyl Acetate	8.683	43	265107	45.440	ug/l		99
44) Trichloroethene	9.347	130	110058	43.622	ug/l		96
45) 1,2-Dichloropropane	9.618	63	123876	44.744	ug/l		97
46) Dibromomethane	9.700	93	88325	44.214	ug/l		98
47) Bromodichloromethane	9.889	83	185808	45.655	ug/l		99
48) Methyl methacrylate	9.677	41	131142	49.948	ug/l		97
49) 1,4-Dioxane	9.689	88	35051	792.760	ug/l		98
51) 4-Methyl-2-Pentanone	10.441	43	832426	245.877	ug/l		99
52) Toluene	10.630	92	301911	48.073	ug/l		99
53) t-1,3-Dichloropropene	10.830	75	183680	47.757	ug/l		94
54) cis-1,3-Dichloropropene	10.312	75	196307	47.783	ug/l		98
55) 1,1,2-Trichloroethane	11.012	97	114757	46.173	ug/l		97
56) Ethyl methacrylate	10.871	69	182170	43.762	ug/l		98
57) 1,3-Dichloropropane	11.159	76	202583	46.877	ug/l		100
58) 2-Chloroethyl Vinyl ether	10.159	63	403949	256.116	ug/l		99
59) 2-Hexanone	11.194	43	598433	251.213	ug/l		100
60) Dibromochloromethane	11.353	129	137831	45.935	ug/l		99
61) 1,2-Dibromoethane	11.465	107	110926	44.837	ug/l		100
64) Tetrachloroethene	11.100	164	98211	44.886	ug/l		96
65) Chlorobenzene	11.888	112	322723	45.901	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.959	131	115379	44.712	ug/l		99
67) Ethyl Benzene	11.959	91	577059	50.391	ug/l		97
68) m/p-Xylenes	12.071	106	437367	103.341	ug/l		100
69) o-Xylene	12.394	106	210698	52.093	ug/l		99
70) Styrene	12.406	104	355459	53.103	ug/l		100
71) Bromoform	12.577	173	90693	49.119	ug/l	#	100
73) Isopropylbenzene	12.694	105	534428	49.951	ug/l		99
74) N-amyl acetate	12.488	43	234342	48.730	ug/l		100
75) 1,1,2,2-Tetrachloroethane	12.935	83	164882	43.627	ug/l		100
76) 1,2,3-Trichloropropane	12.988	75	134976m	41.891	ug/l		
77) Bromobenzene	12.977	156	128968	46.138	ug/l		97
78) n-propylbenzene	13.029	91	645977	51.001	ug/l		100
79) 2-Chlorotoluene	13.124	91	392404	47.870	ug/l		99
80) 1,3,5-Trimethylbenzene	13.171	105	456048	51.604	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.735	75	58623m	49.226	ug/l		
82) 4-Chlorotoluene	13.218	91	398110	48.776	ug/l		100
83) tert-Butylbenzene	13.435	119	378478	50.997	ug/l		98
84) 1,2,4-Trimethylbenzene	13.477	105	457340	51.922	ug/l		100
85) sec-Butylbenzene	13.612	105	532578	51.777	ug/l		100
86) p-Isopropyltoluene	13.729	119	440284	47.795	ug/l		100
87) 1,3-Dichlorobenzene	13.729	146	236387	45.920	ug/l		99
88) 1,4-Dichlorobenzene	13.806	146	235319	44.102	ug/l		99
89) n-Butylbenzene	14.053	91	373227	50.578	ug/l		99
90) Hexachloroethane	14.329	117	88538	45.215	ug/l		100
91) 1,2-Dichlorobenzene	14.100	146	231646	45.113	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.718	75	31899	46.221	ug/l		97
93) 1,2,4-Trichlorobenzene	15.388	180	109157	45.739	ug/l		98
94) Hexachlorobutadiene	15.500	225	53358	42.112	ug/l		99
95) Naphthalene	15.641	128	335535	47.116	ug/l		100
96) 1,2,3-Trichlorobenzene	15.835	180	107583	44.551	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085445.D
Acq On : 14 Jan 2025 18:06
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Manual Integrations APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 15 02:20:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 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

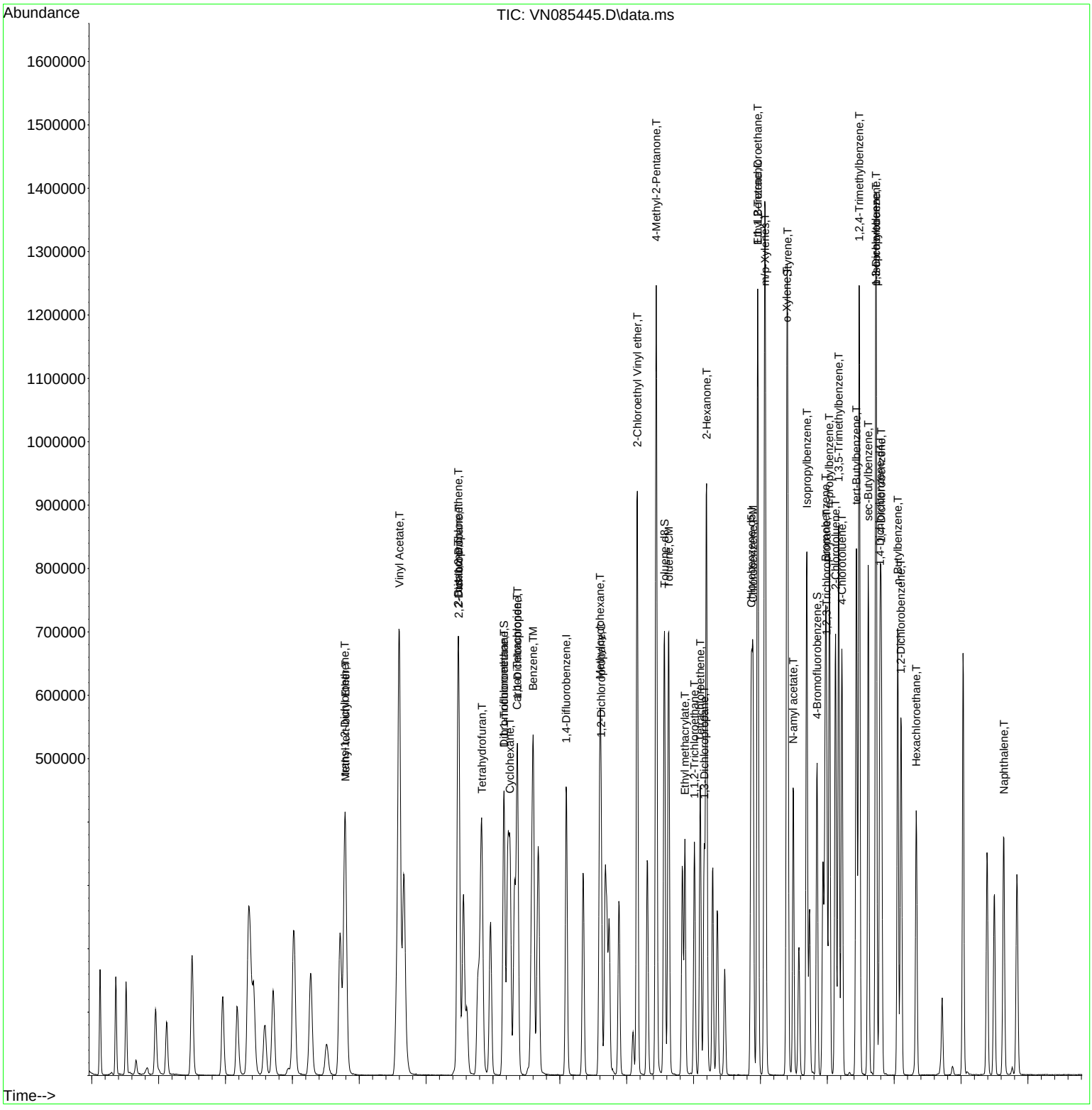
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085445.D
Acq On : 14 Jan 2025 18:06
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

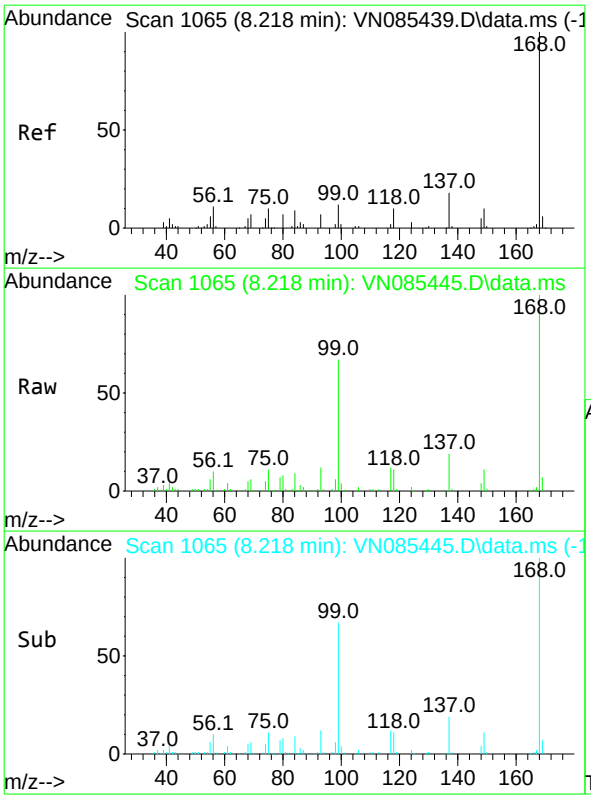
Quant Time: Jan 15 02:20:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Manual Integrations APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

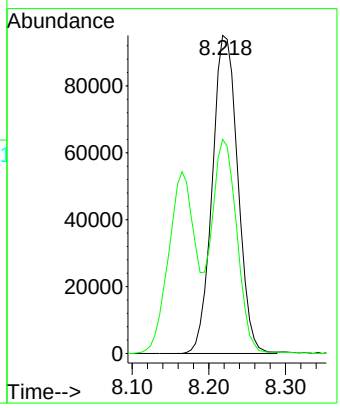




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 10
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion:168 Resp: 219757

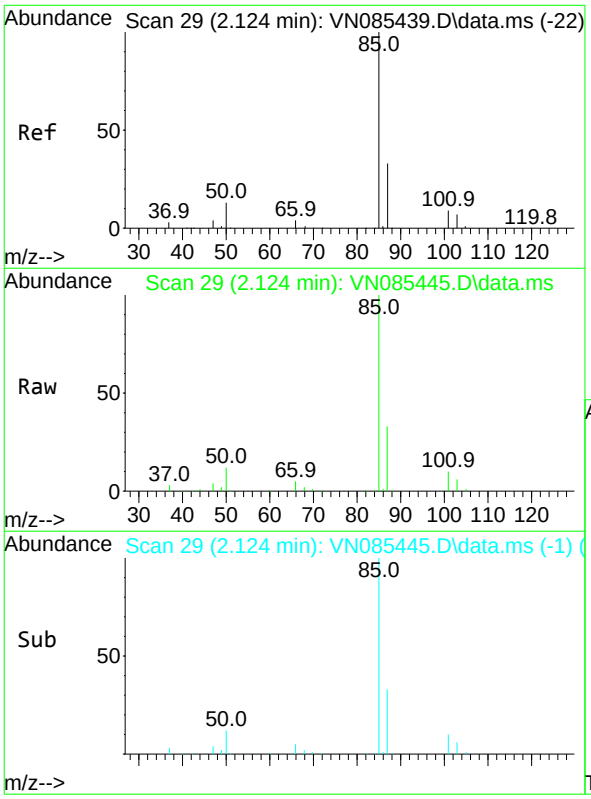
Ion	Ratio	Lower	Upper
168	100		
99	66.9	53.6	80.4



Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Manual Integrations APPROVED

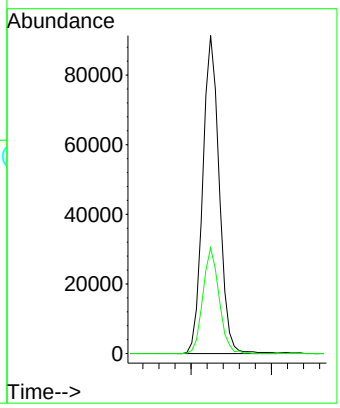
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

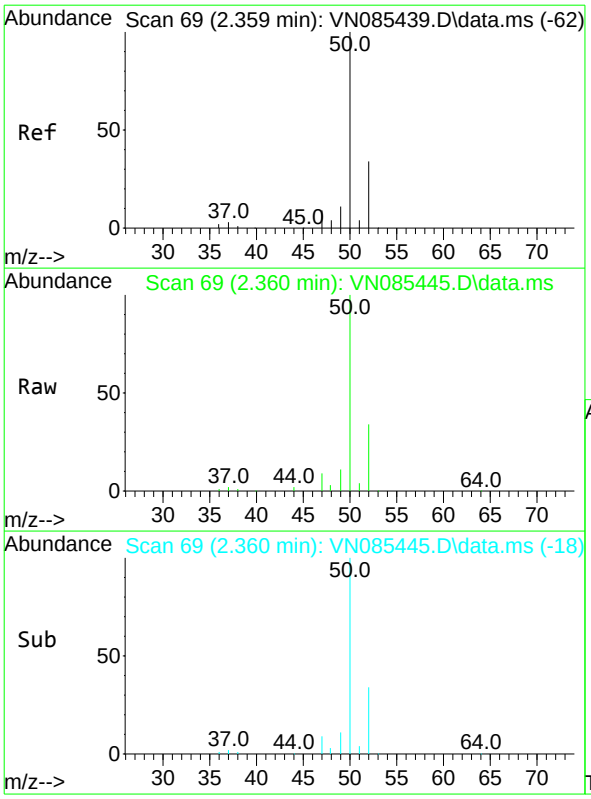


#2
Dichlorodifluoromethane
Concen: 43.772 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 85 Resp: 130242

Ion	Ratio	Lower	Upper
85	100		
87	33.2	16.7	50.1

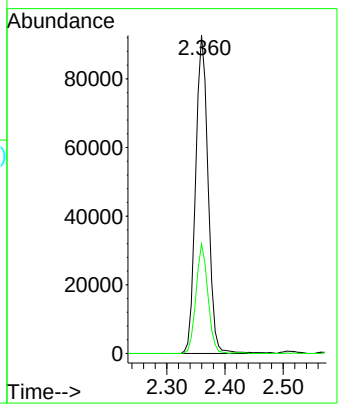




#3
Chloromethane
Concen: 42.883 ug/l
RT: 2.360 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 50 Resp: 138152

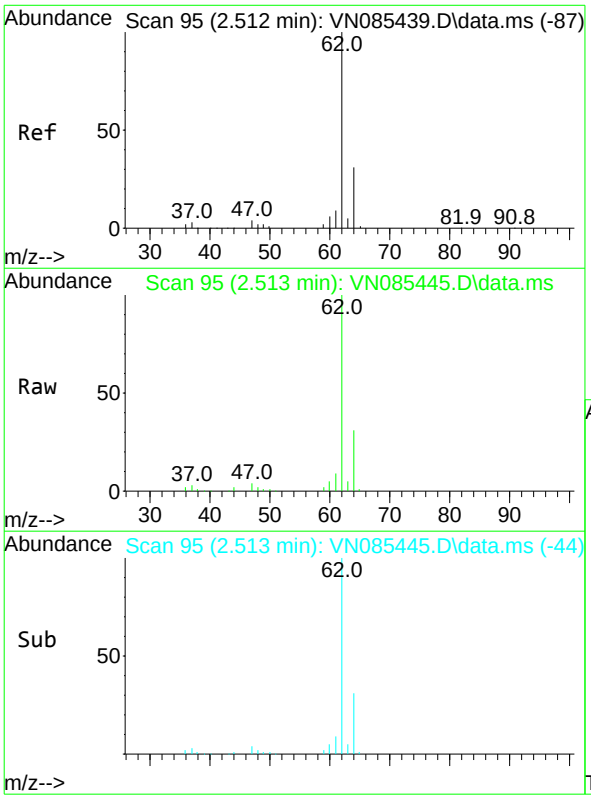
Ion	Ratio	Lower	Upper
50	100		
52	34.4	27.0	40.6



Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Manual Integrations APPROVED

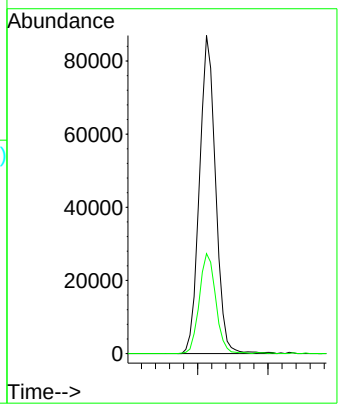
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

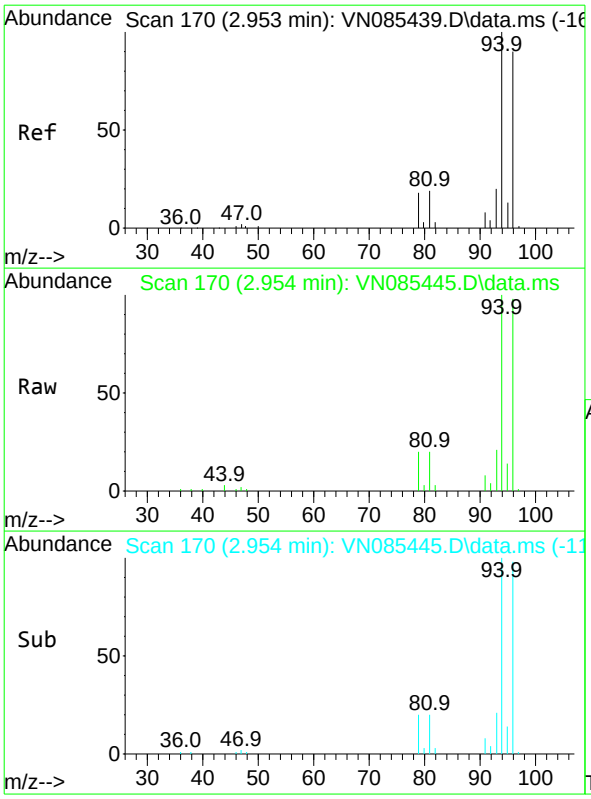


#4
Vinyl Chloride
Concen: 42.715 ug/l
RT: 2.513 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 62 Resp: 138316

Ion	Ratio	Lower	Upper
62	100		
64	31.4	24.8	37.2

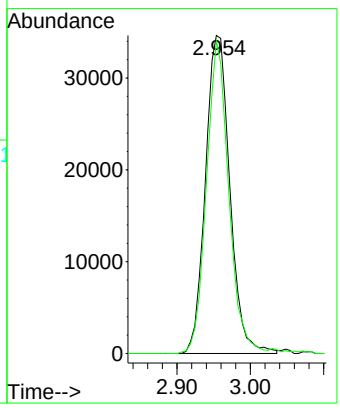




#5
Bromomethane
Concen: 40.910 ug/l
RT: 2.954 min Scan# 17
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 94 Resp: 80019

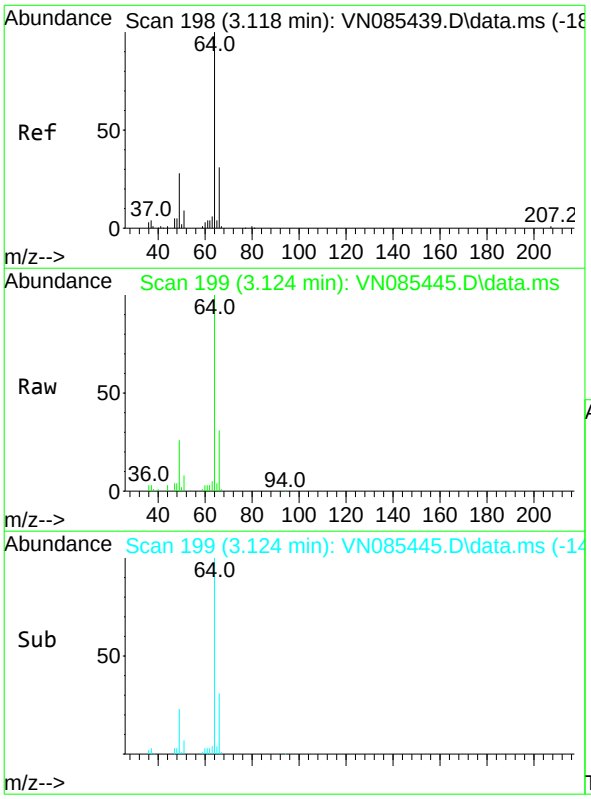
Ion	Ratio	Lower	Upper
94	100		
96	98.2	71.8	107.6



Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Manual Integrations APPROVED

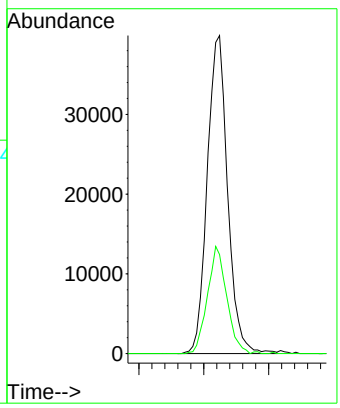
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

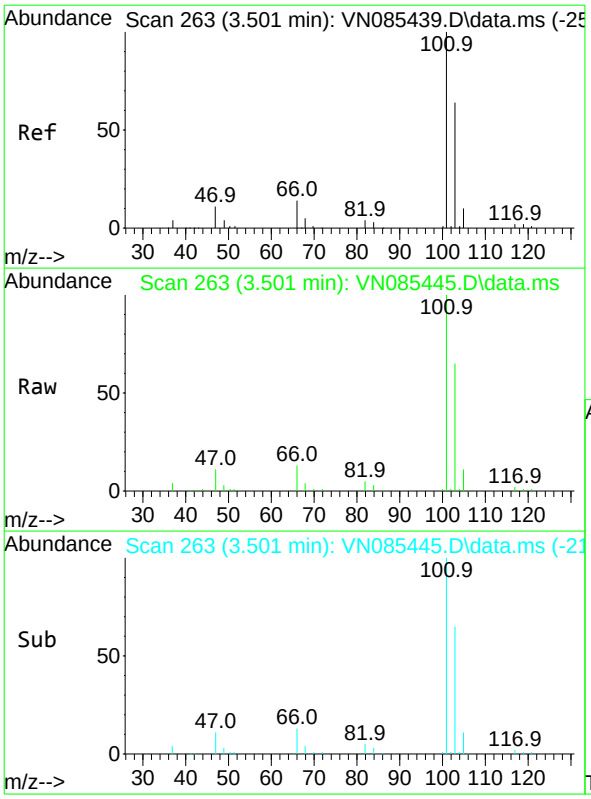


#6
Chloroethane
Concen: 42.299 ug/l
RT: 3.124 min Scan# 199
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 64 Resp: 86837

Ion	Ratio	Lower	Upper
64	100		
66	31.1	24.6	36.8

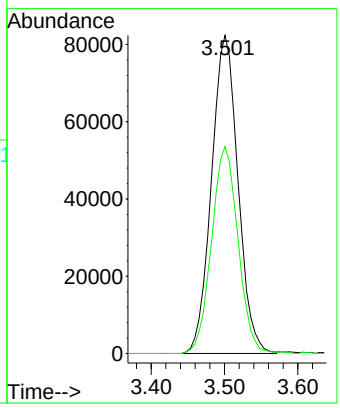




#7
Trichlorofluoromethane
Concen: 43.956 ug/l
RT: 3.501 min Scan# 26
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion:101 Resp: 206526

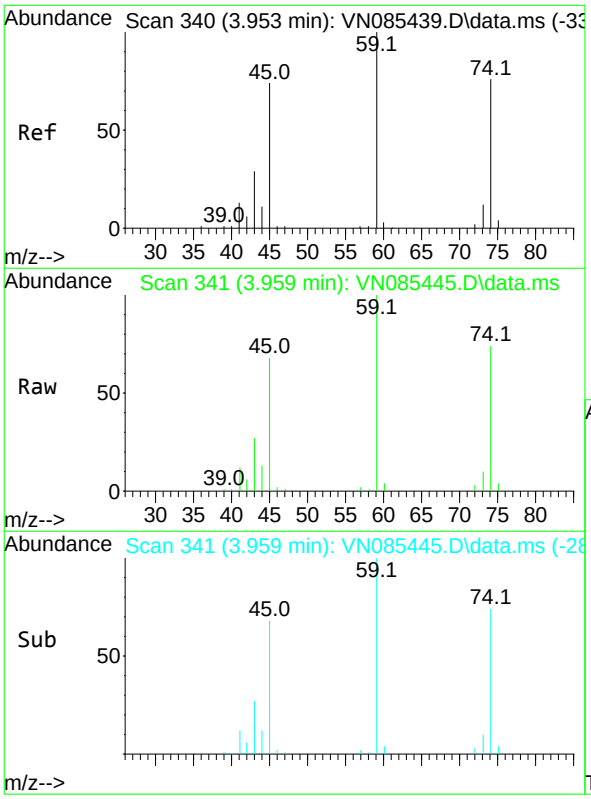
Ion	Ratio	Lower	Upper
101	100		
103	65.1	51.4	77.2



Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Manual Integrations APPROVED

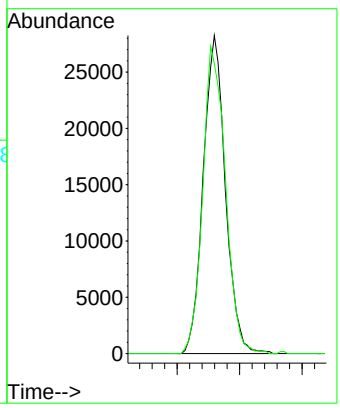
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

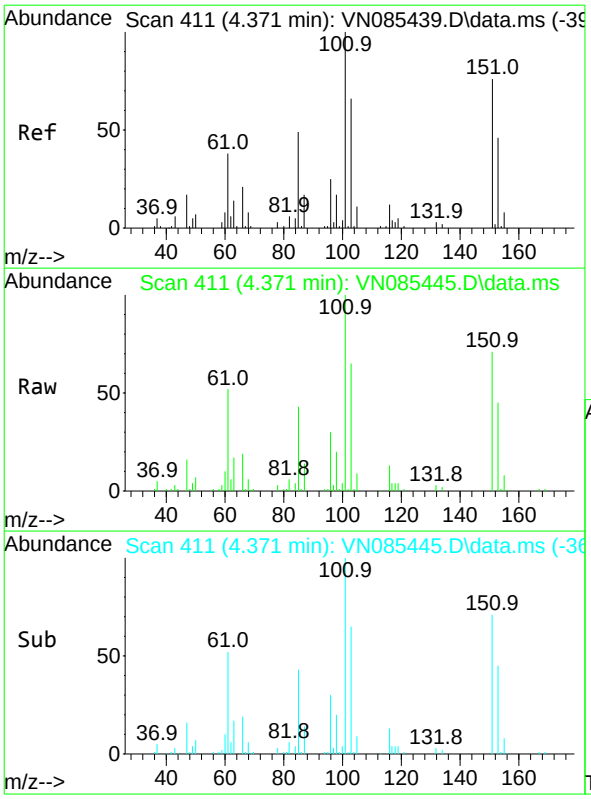


#8
Diethyl Ether
Concen: 42.846 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 74 Resp: 69545

Ion	Ratio	Lower	Upper
74	100		
45	99.0	49.7	149.1

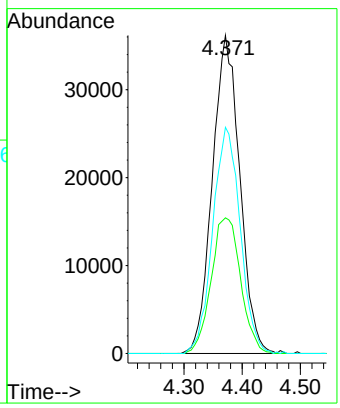




#9
1,1,2-Trichlorotrifluoroethane
Concen: 44.706 ug/l
RT: 4.371 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion:101 Resp: 118310

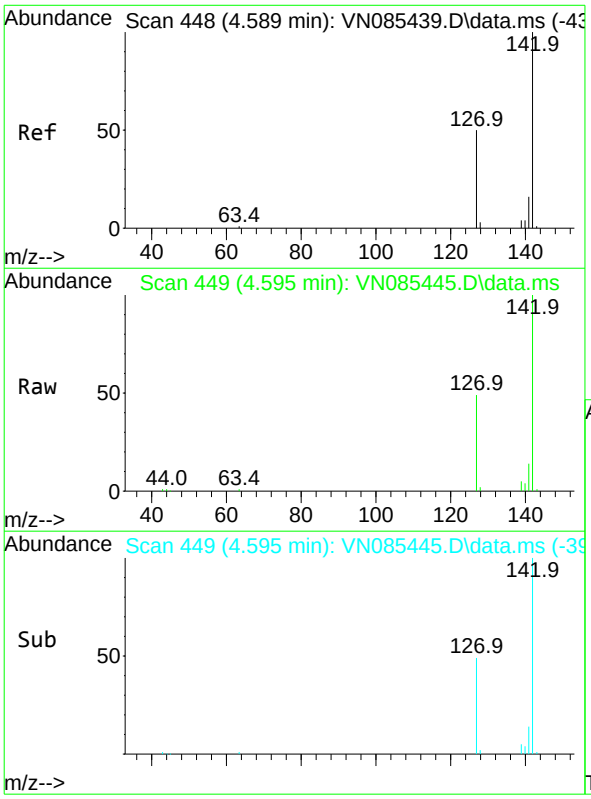
Ion	Ratio	Lower	Upper
101	100		
85	45.9	37.8	56.8
151	71.5	58.8	88.2



Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Manual Integrations APPROVED

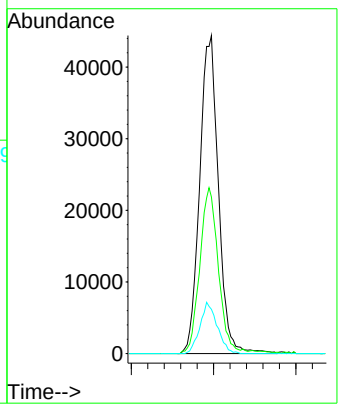
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

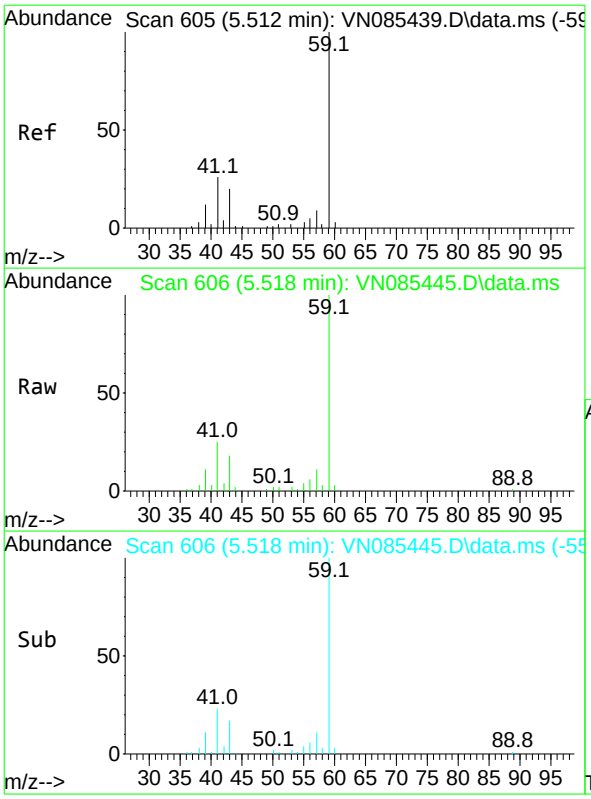


#10
Methyl Iodide
Concen: 46.259 ug/l
RT: 4.595 min Scan# 449
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion:142 Resp: 140190

Ion	Ratio	Lower	Upper
142	100		
127	49.2	40.3	60.5
141	13.9	12.8	19.2

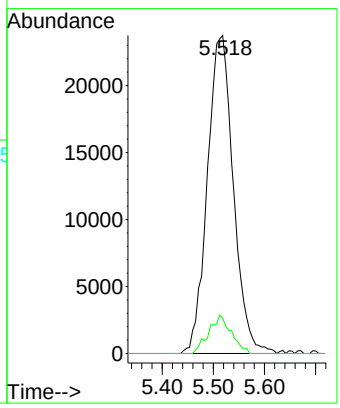




#11
Tert butyl alcohol
Concen: 206.633 ug/l
RT: 5.518 min Scan# 60
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 59 Resp: 83933

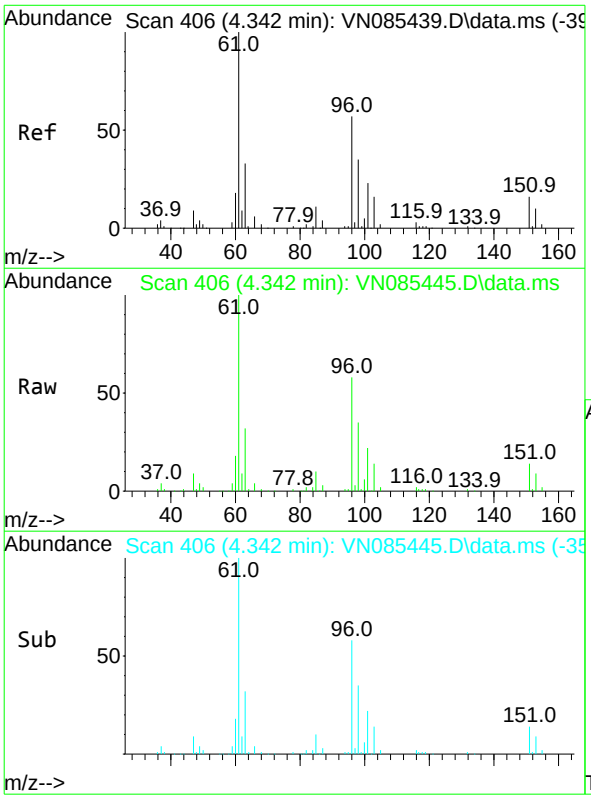
Ion	Ratio	Lower	Upper
59	100		
57	10.4	8.6	13.0



Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Manual Integrations APPROVED

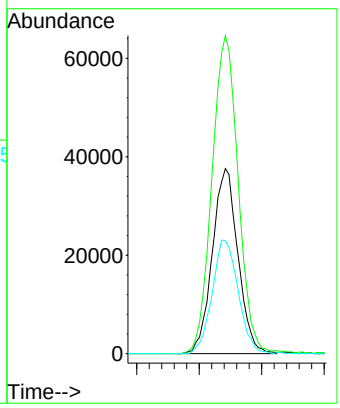
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

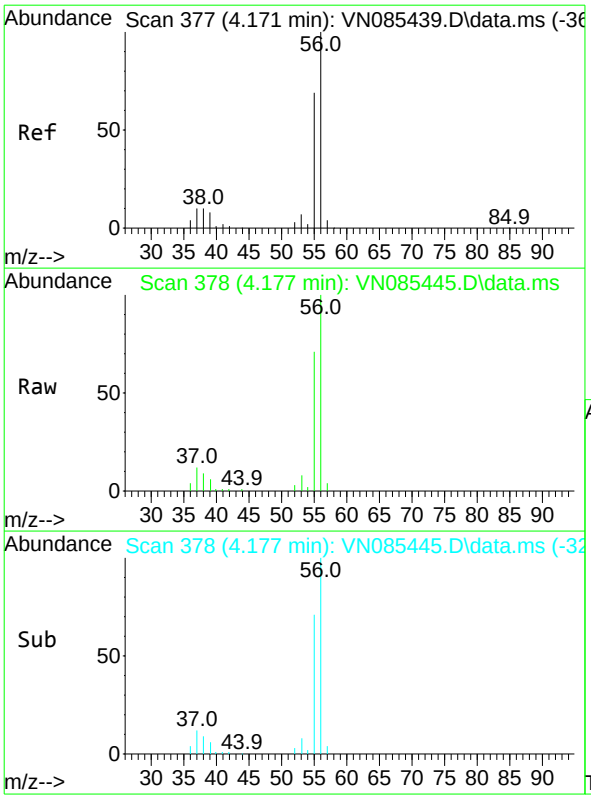


#12
1,1-Dichloroethene
Concen: 45.317 ug/l
RT: 4.342 min Scan# 406
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 96 Resp: 106880

Ion	Ratio	Lower	Upper
96	100		
61	171.9	141.0	211.4
98	61.0	49.0	73.6

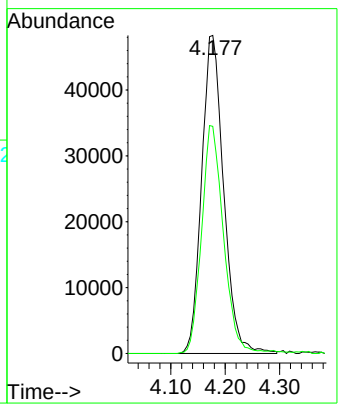




#13
Acrolein
Concen: 244.765 ug/l
RT: 4.177 min Scan# 37
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 56 Resp: 135720

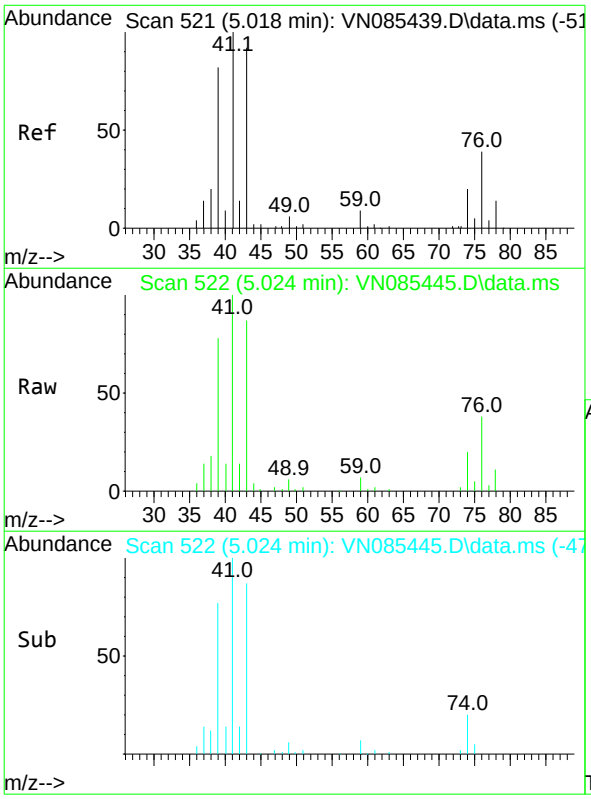
Ion	Ratio	Lower	Upper
56	100		
55	70.9	56.3	84.5



Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Manual Integrations APPROVED

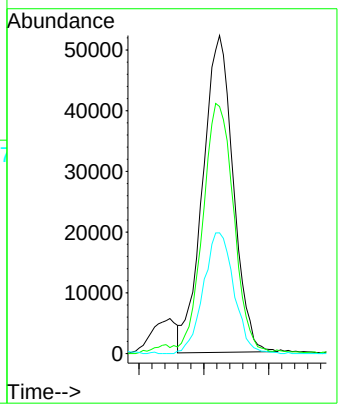
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

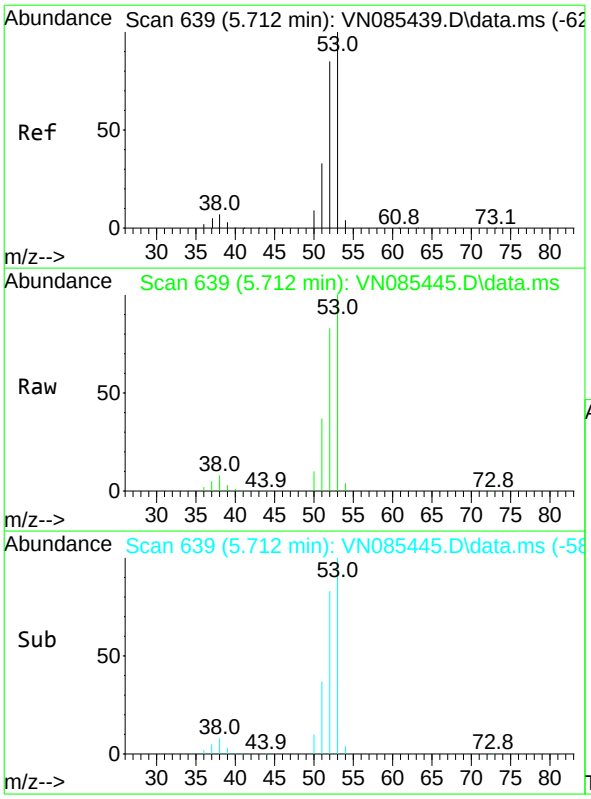


#14
Allyl chloride
Concen: 44.501 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 41 Resp: 170308

Ion	Ratio	Lower	Upper
41	100		
39	78.9	64.4	96.6
76	38.2	30.5	45.7

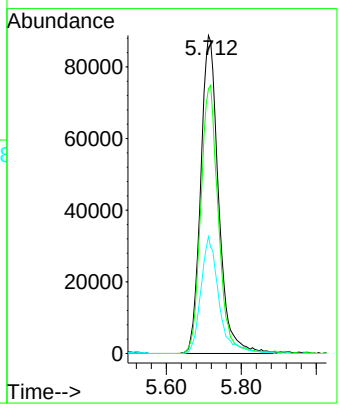




#15
Acrylonitrile
Concen: 227.920 ug/l
RT: 5.712 min Scan# 63
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 53 Resp: 294062

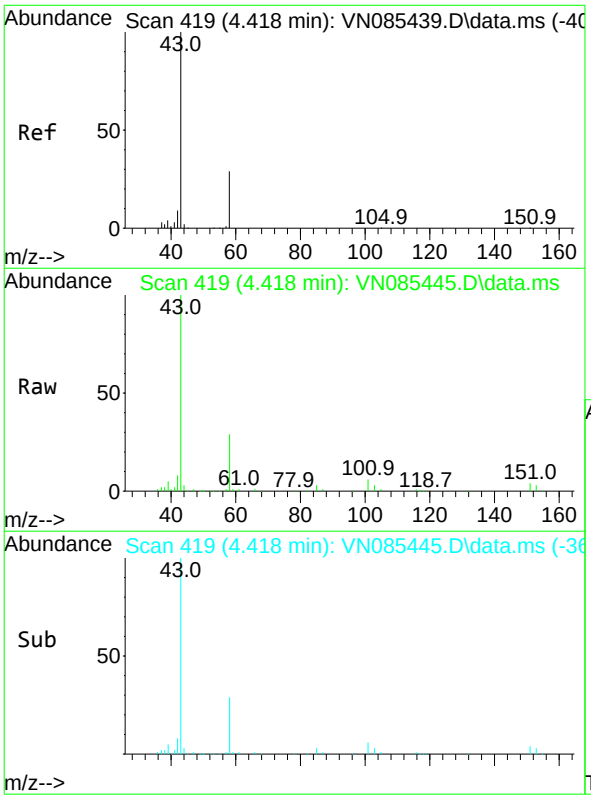
Ion	Ratio	Lower	Upper
53	100		
52	82.7	65.5	98.3
51	36.8	29.8	44.8



Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Manual Integrations APPROVED

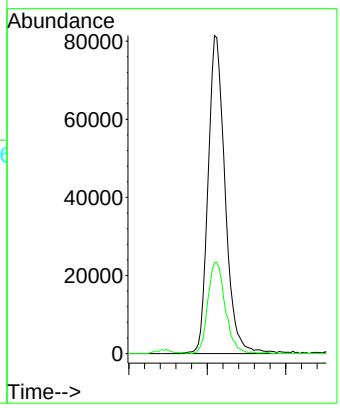
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

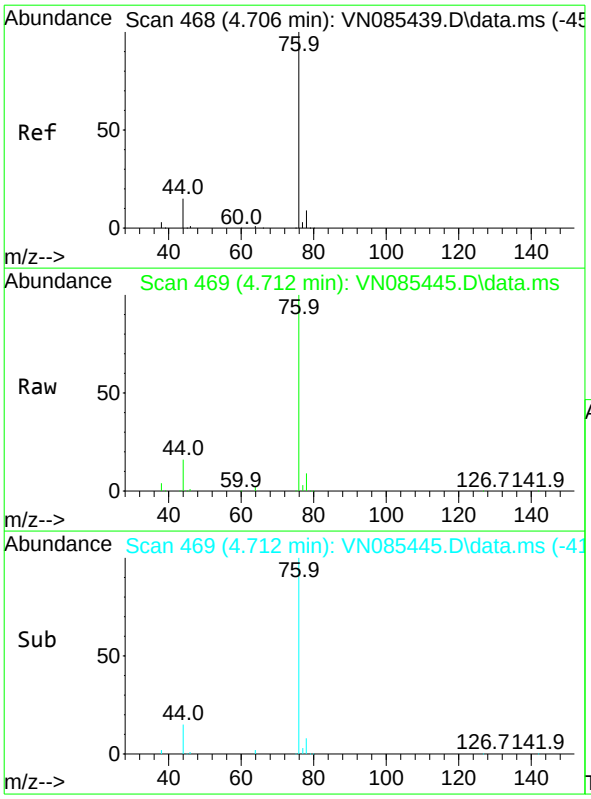


#16
Acetone
Concen: 213.971 ug/l
RT: 4.418 min Scan# 419
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 43 Resp: 245248

Ion	Ratio	Lower	Upper
43	100		
58	28.4	23.8	35.6

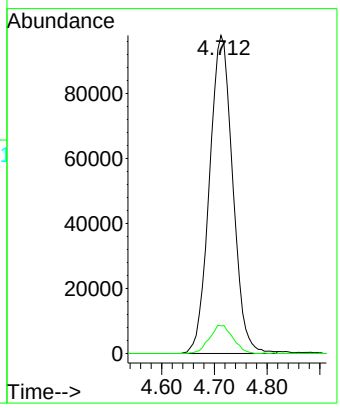




#17
Carbon Disulfide
Concen: 41.342 ug/l
RT: 4.712 min Scan# 46
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 76 Resp: 300215

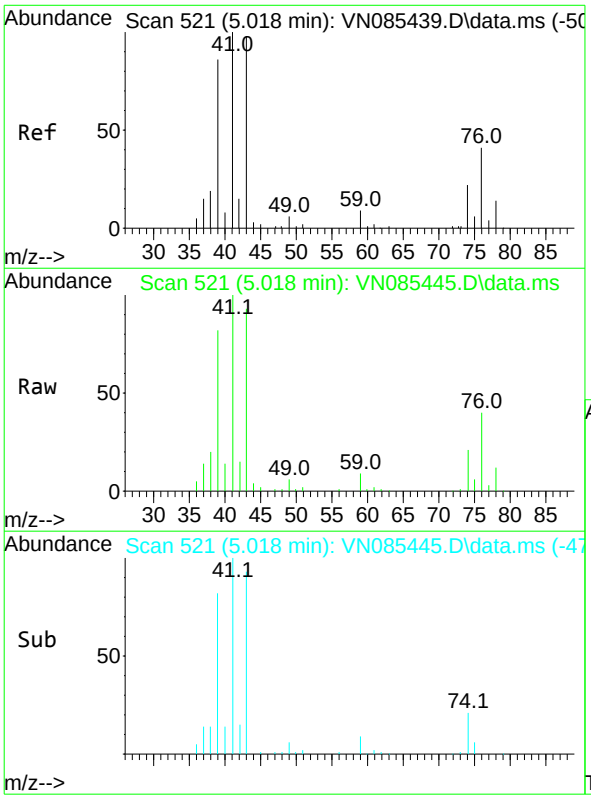
Ion	Ratio	Lower	Upper
76	100		
78	8.7	6.9	10.3



Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Manual Integrations APPROVED

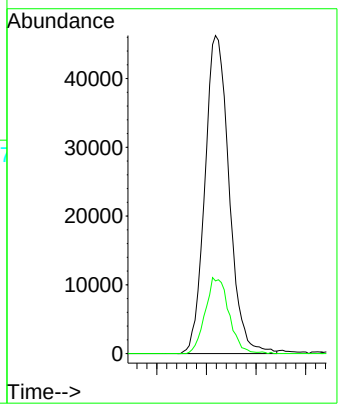
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

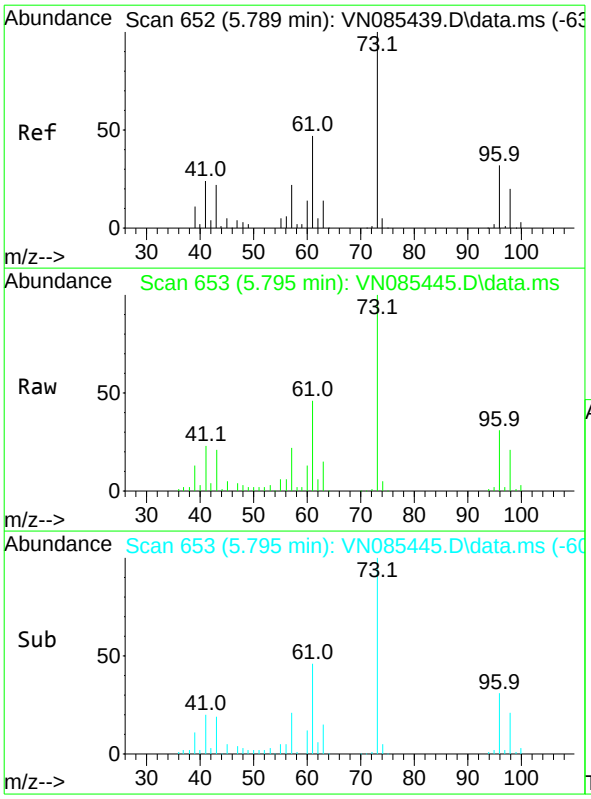


#18
Methyl Acetate
Concen: 45.028 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 43 Resp: 156938

Ion	Ratio	Lower	Upper
43	100		
74	23.4	18.6	28.0

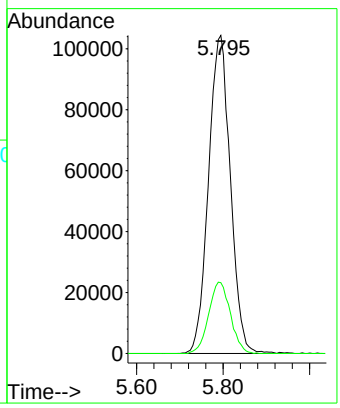




#19
Methyl tert-butyl Ether
Concen: 47.768 ug/l
RT: 5.795 min Scan# 65
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 73 Resp: 365819

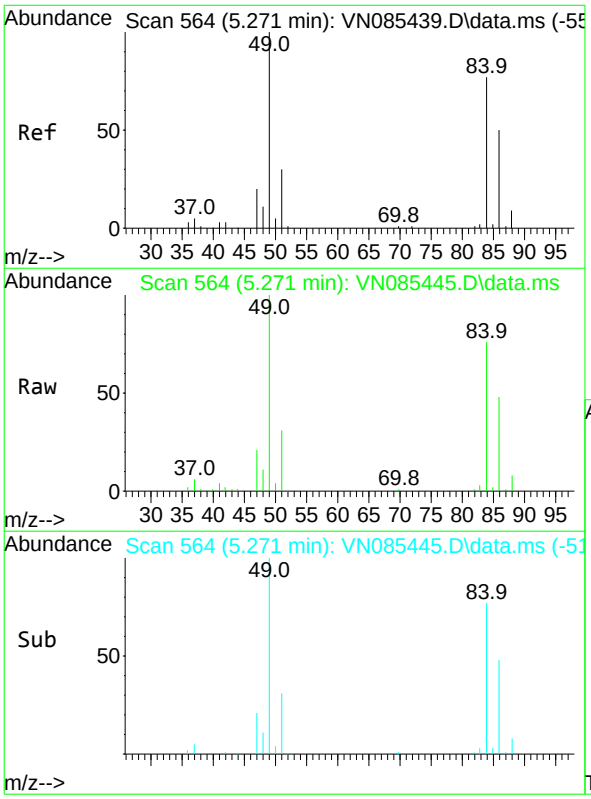
Ion	Ratio	Lower	Upper
73	100		
57	22.3	17.8	26.8



Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Manual Integrations APPROVED

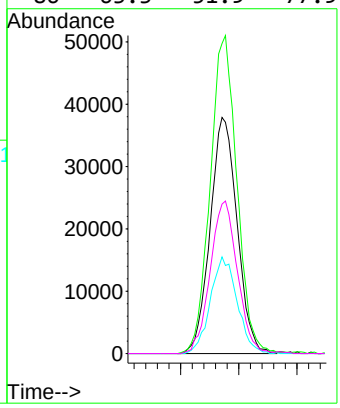
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

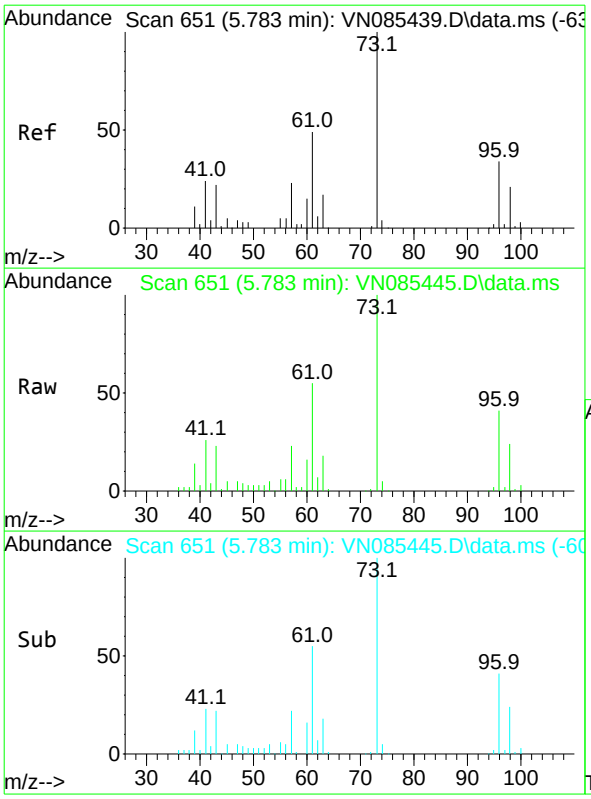


#20
Methylene Chloride
Concen: 43.017 ug/l
RT: 5.271 min Scan# 564
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 84 Resp: 122059

Ion	Ratio	Lower	Upper
84	100		
49	131.3	104.1	156.1
51	41.0	31.0	46.4
86	63.3	51.9	77.9

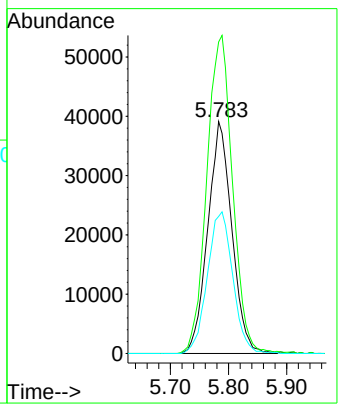




#21
trans-1,2-Dichloroethene
Concen: 44.672 ug/l
RT: 5.783 min Scan# 65
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 96 Resp: 112597

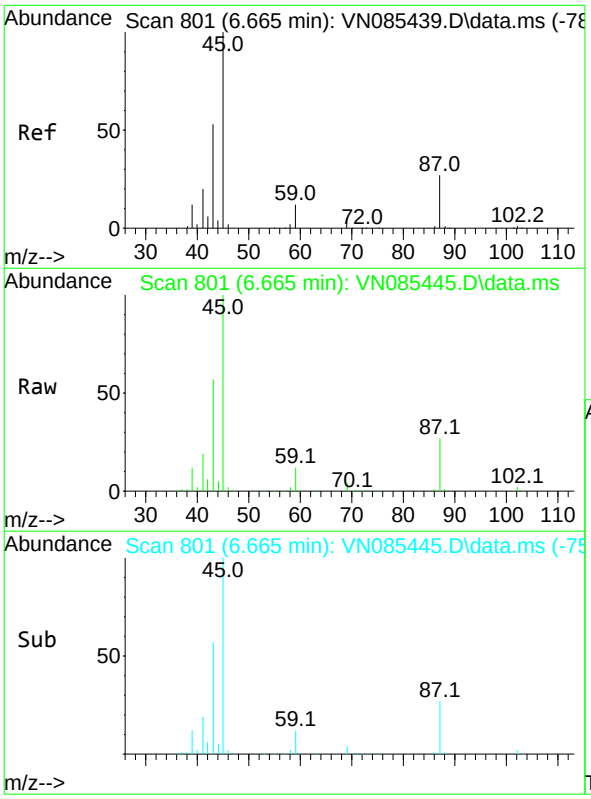
Ion	Ratio	Lower	Upper
96	100		
61	134.3	115.7	173.5
98	59.1	49.8	74.8



Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Manual Integrations APPROVED

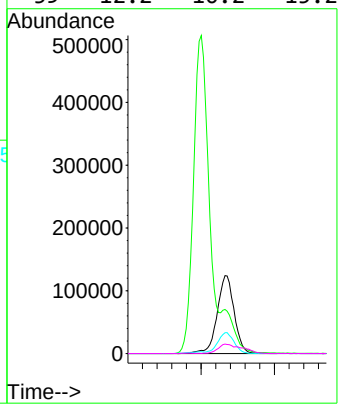
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

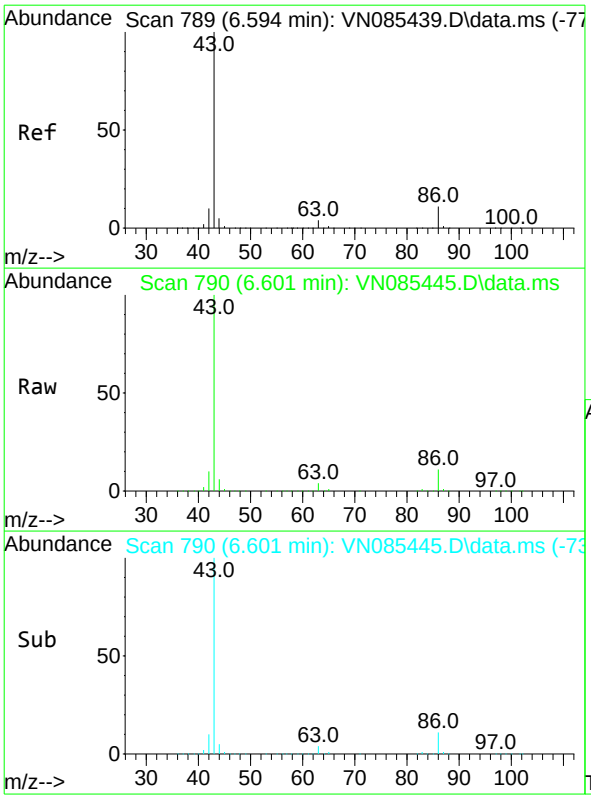


#22
Diisopropyl ether
Concen: 46.996 ug/l
RT: 6.665 min Scan# 801
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 45 Resp: 399206

Ion	Ratio	Lower	Upper
45	100		
43	56.0	45.0	67.6
87	26.8	21.8	32.8
59	12.2	10.2	15.2

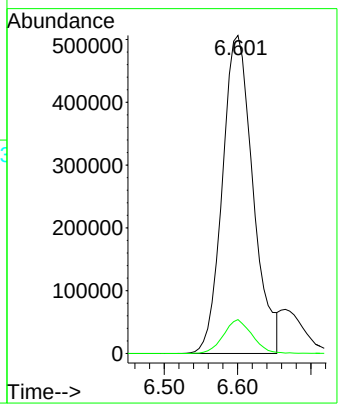




#23
Vinyl Acetate
Concen: 247.459 ug/l
RT: 6.601 min Scan# 79
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 43 Resp: 1471068

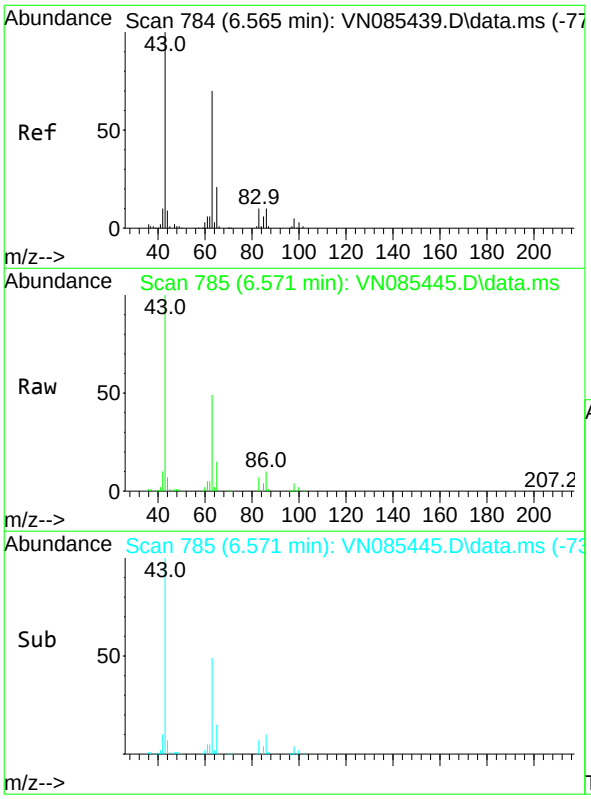
Ion	Ratio	Lower	Upper
43	100		
86	10.7	8.4	12.6



Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Manual Integrations APPROVED

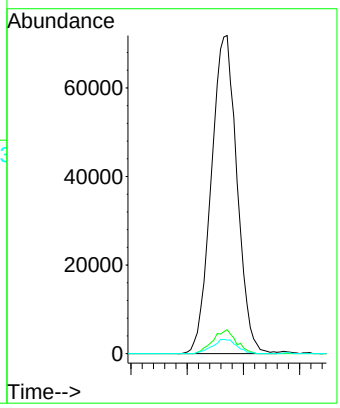
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

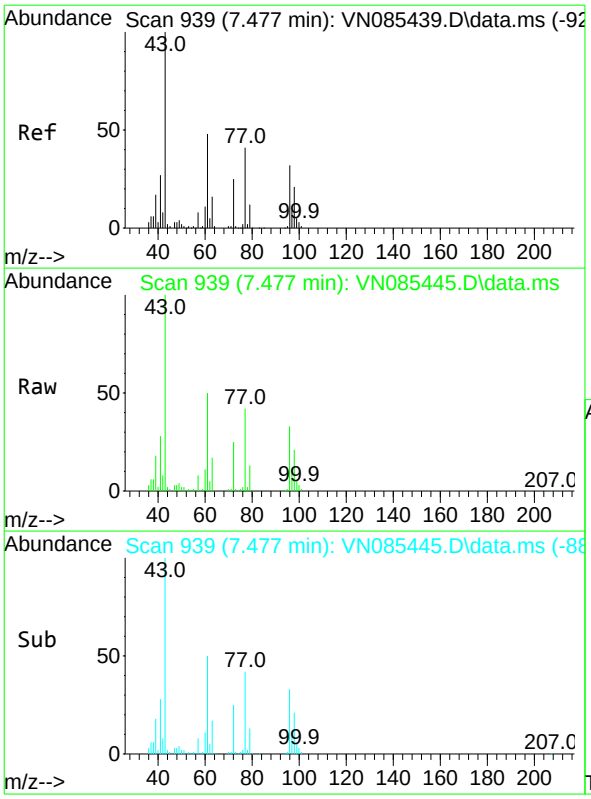


#24
1,1-Dichloroethane
Concen: 44.114 ug/l
RT: 6.571 min Scan# 785
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 63 Resp: 228489

Ion	Ratio	Lower	Upper
63	100		
98	7.5	3.3	9.8
100	4.2	2.0	6.0

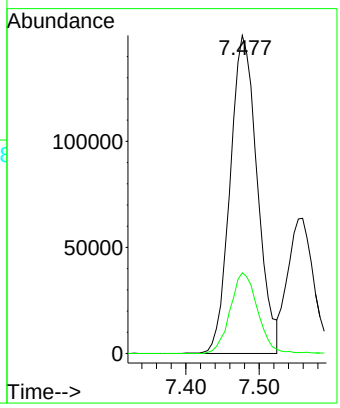




#25
2-Butanone
Concen: 228.924 ug/l
RT: 7.477 min Scan# 93
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 43 Resp: 386125

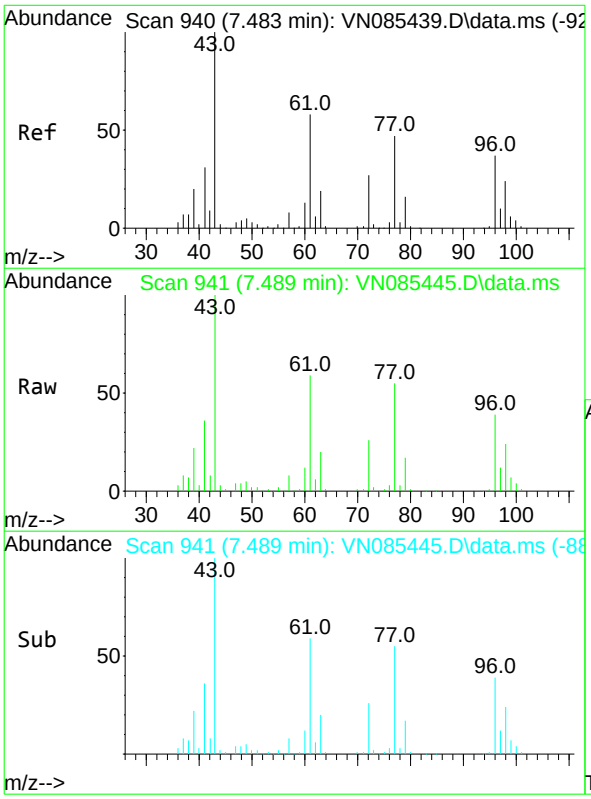
Ion	Ratio	Lower	Upper
43	100		
72	25.4	20.2	30.4



Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Manual Integrations APPROVED

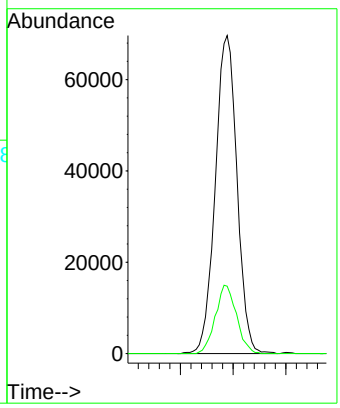
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

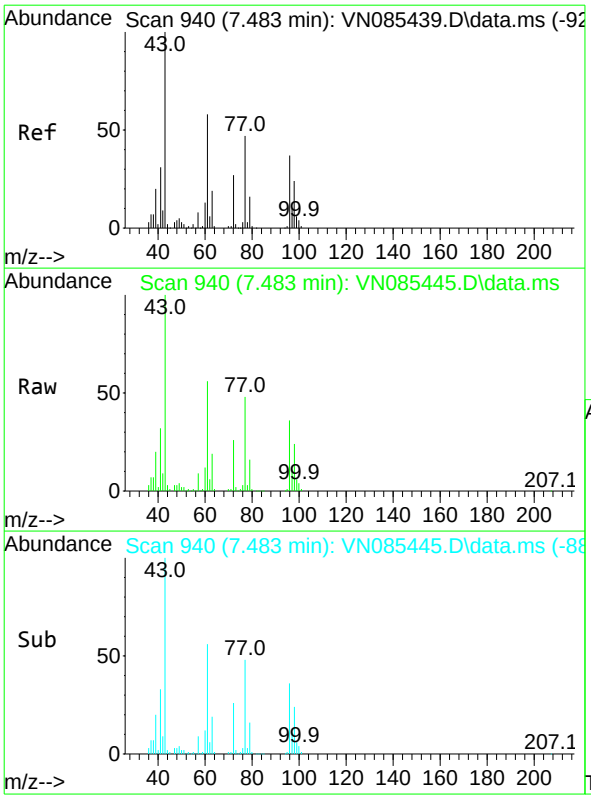


#26
2,2-Dichloropropane
Concen: 47.593 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 77 Resp: 199303

Ion	Ratio	Lower	Upper
77	100		
97	20.9	10.7	32.1

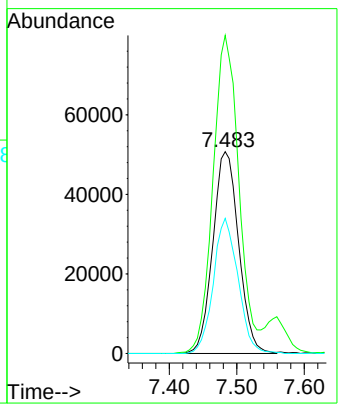




#27
cis-1,2-Dichloroethene
Concen: 45.446 ug/l
RT: 7.483 min Scan# 94
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 96 Resp: 134920

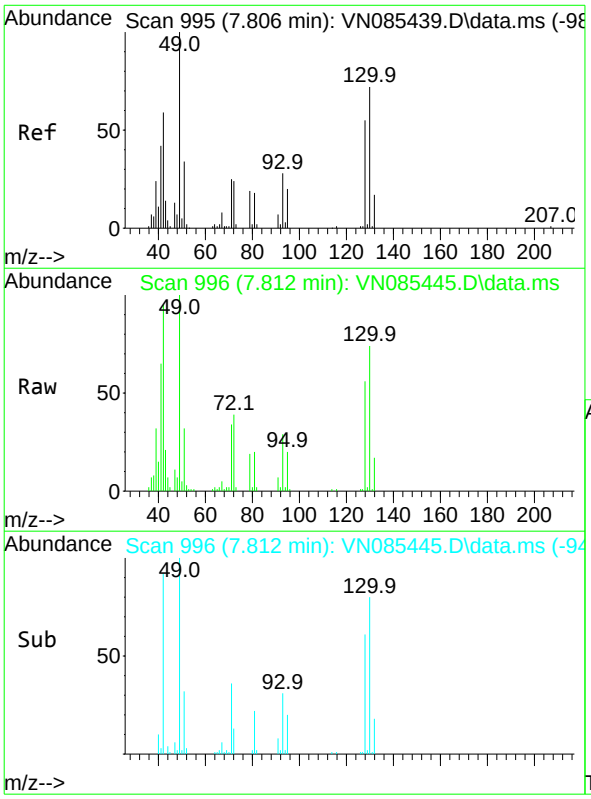
Ion	Ratio	Lower	Upper
96	100		
61	158.0	0.0	311.8
98	64.1	0.0	126.0



Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Manual Integrations APPROVED

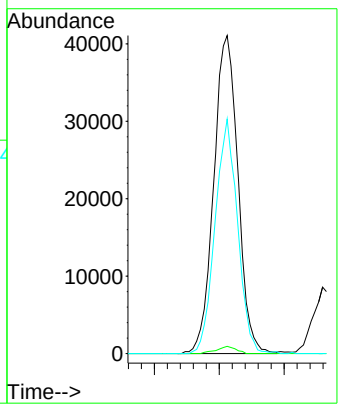
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

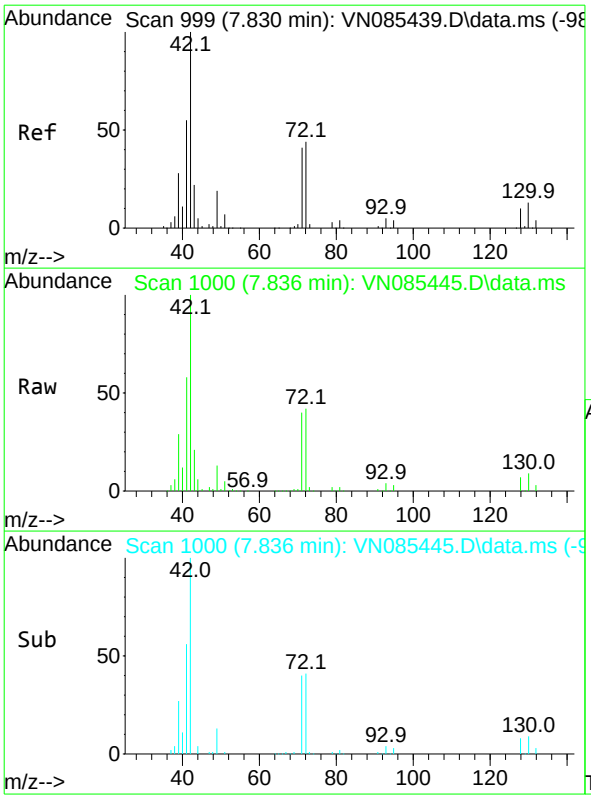


#28
Bromochloromethane
Concen: 44.122 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 49 Resp: 106323

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	4.4
130	68.6	55.0	82.4

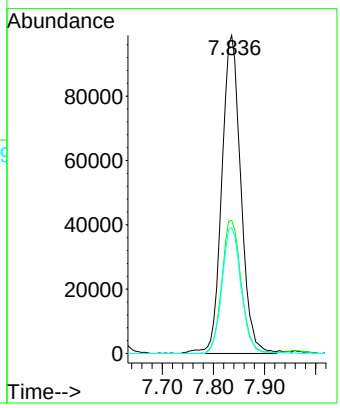




#29
Tetrahydrofuran
Concen: 239.065 ug/l
RT: 7.836 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 42 Resp: 255650

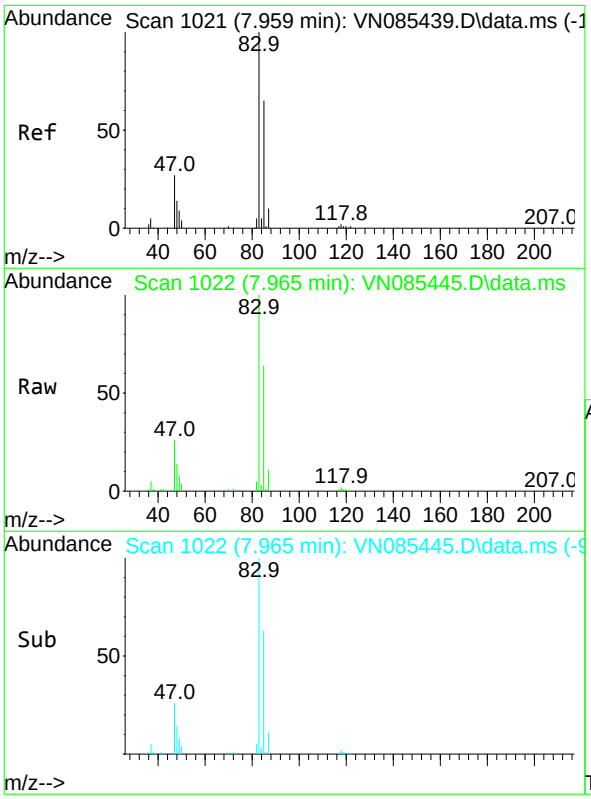
Ion	Ratio	Lower	Upper
42	100		
72	42.5	34.2	51.2
71	39.9	32.5	48.7



Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Manual Integrations APPROVED

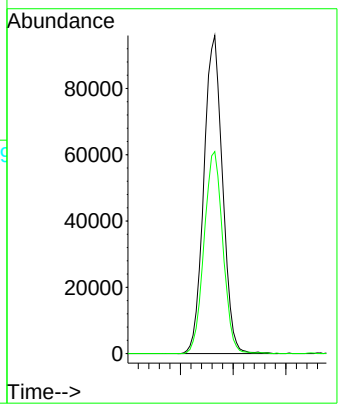
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

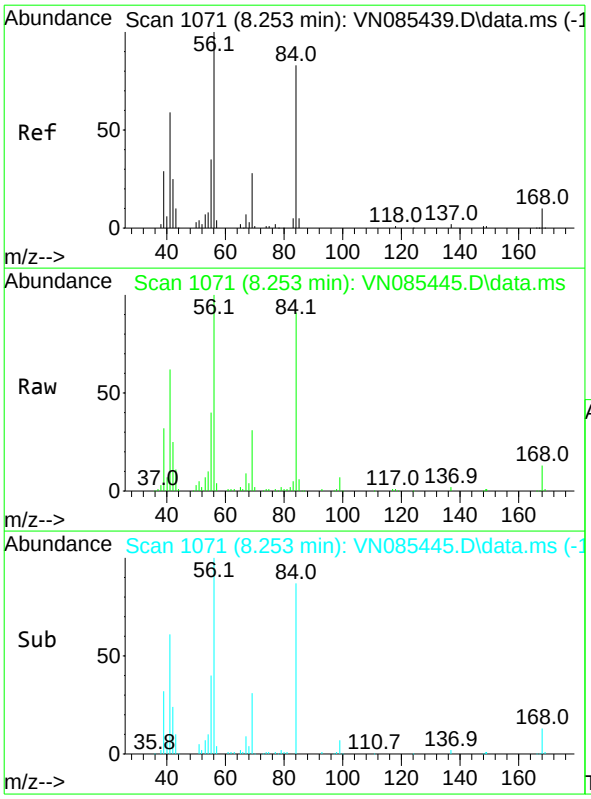


#30
Chloroform
Concen: 44.071 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 83 Resp: 235923

Ion	Ratio	Lower	Upper
83	100		
85	63.5	51.8	77.6

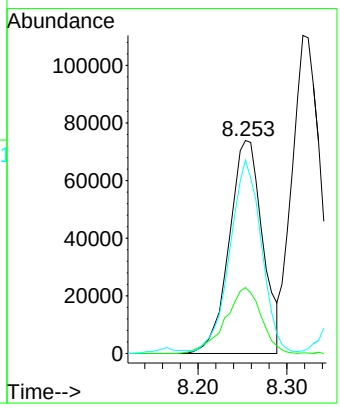




#31
Cyclohexane
Concen: 42.878 ug/l
RT: 8.253 min Scan# 10
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 56 Resp: 193034

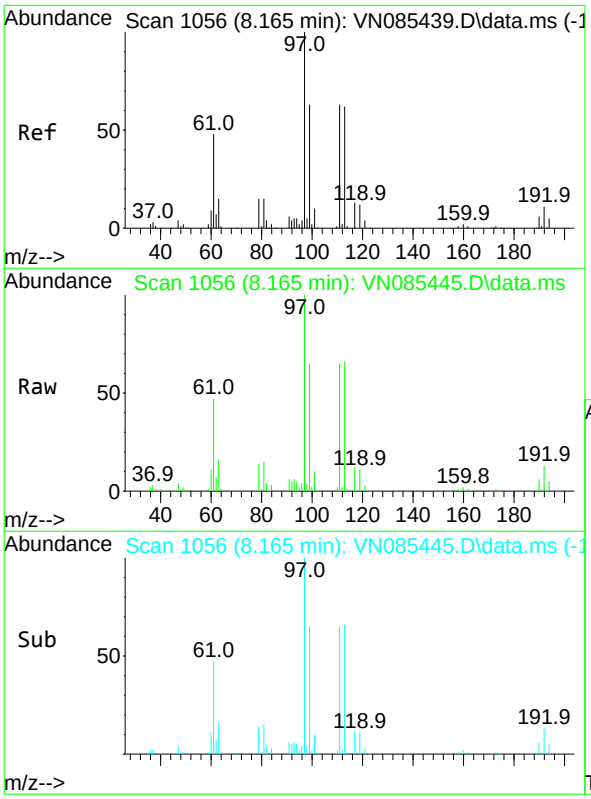
Ion	Ratio	Lower	Upper
56	100		
69	30.5	22.2	33.4
84	89.4	66.4	99.6



Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Manual Integrations APPROVED

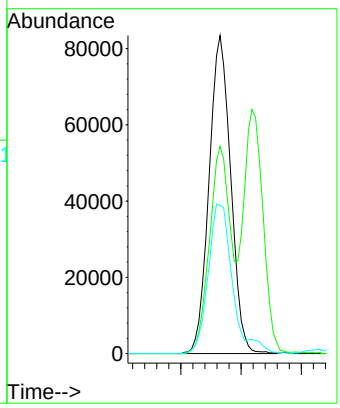
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

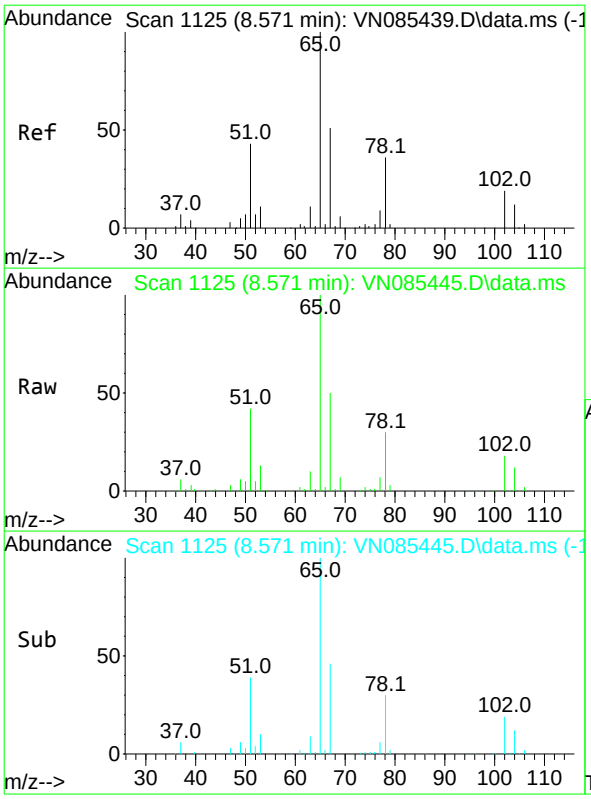


#32
1,1,1-Trichloroethane
Concen: 44.332 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 97 Resp: 208172

Ion	Ratio	Lower	Upper
97	100		
99	61.8	49.8	74.6
61	52.8	41.4	62.2

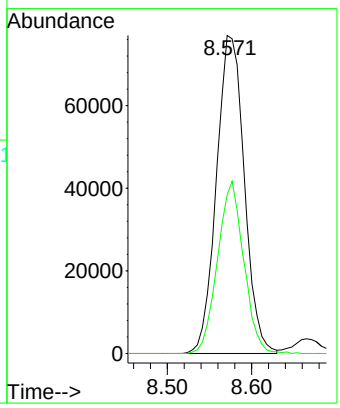




#33
1,2-Dichloroethane-d4
Concen: 49.782 ug/l
RT: 8.571 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 65 Resp: 176594

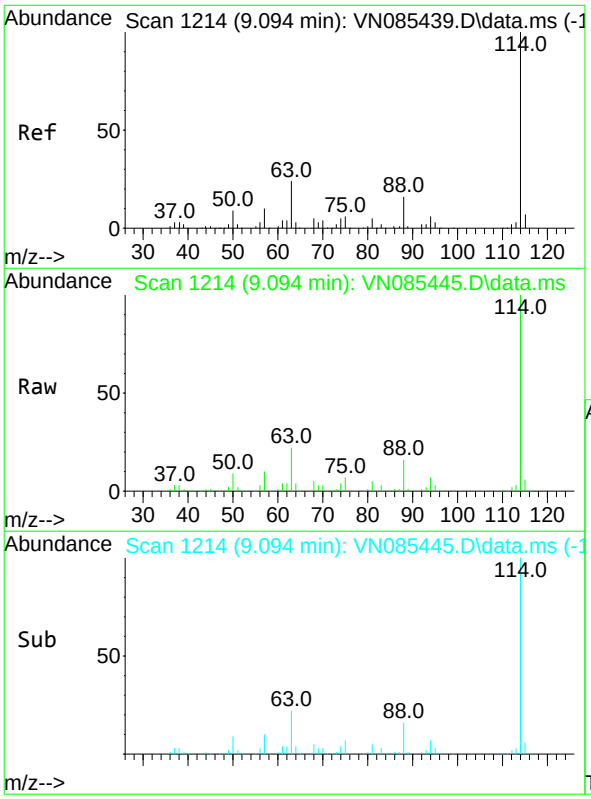
Ion	Ratio	Lower	Upper
65	100		
67	50.9	0.0	101.6



Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Manual Integrations APPROVED

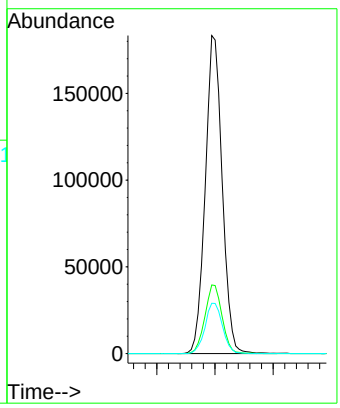
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

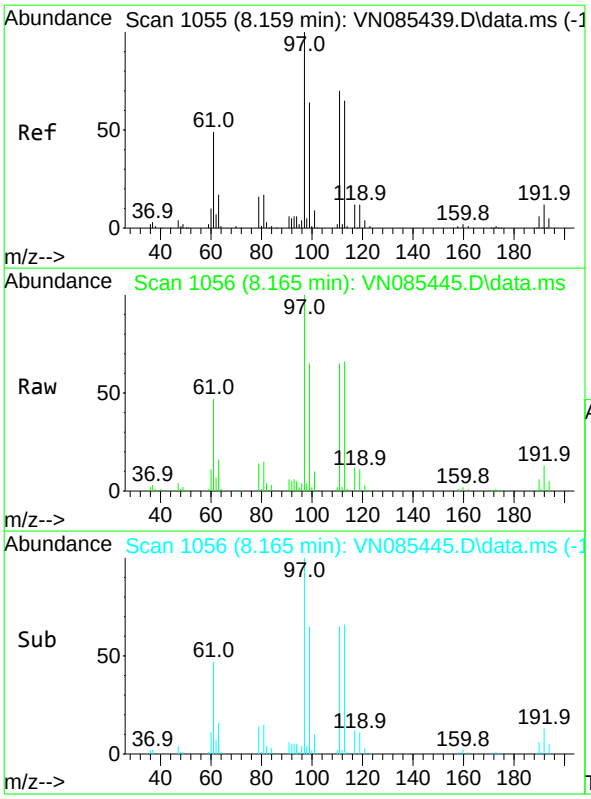


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.094 min Scan# 1214
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion:114 Resp: 370487

Ion	Ratio	Lower	Upper
114	100		
63	21.6	0.0	47.6
88	15.8	0.0	32.6

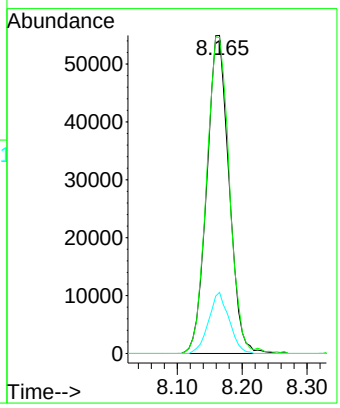




#35
Dibromofluoromethane
Concen: 50.768 ug/l
RT: 8.165 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion:113 Resp: 130487

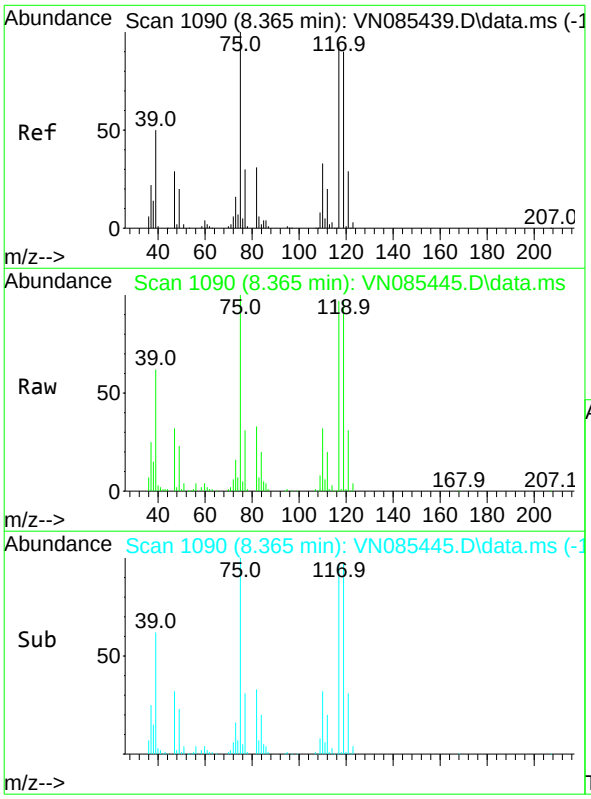
Ion	Ratio	Lower	Upper
113	100		
111	102.5	82.7	124.1
192	17.7	14.3	21.5



Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Manual Integrations APPROVED

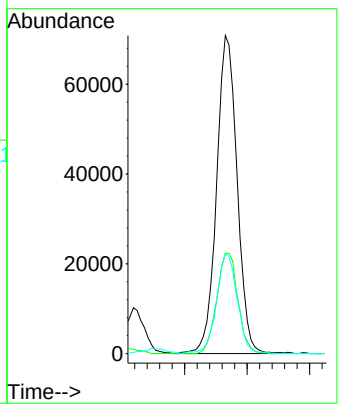
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

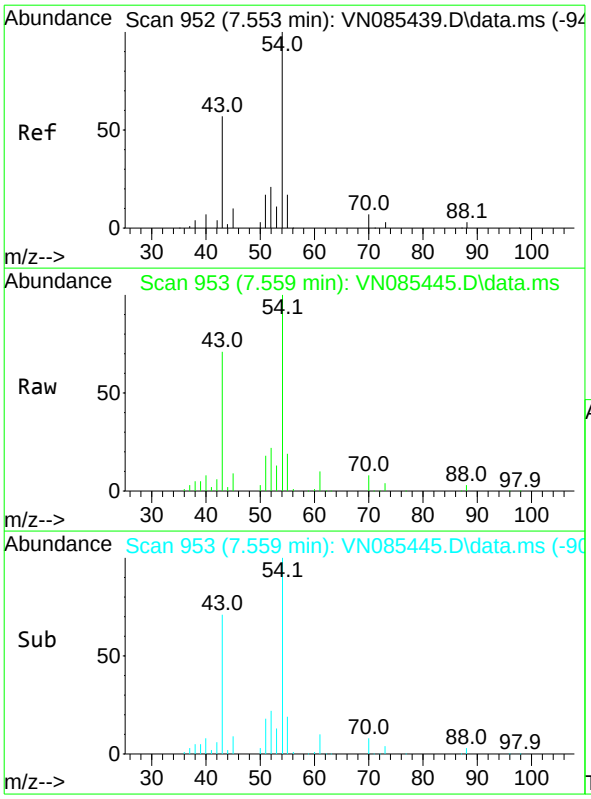


#36
1,1-Dichloropropene
Concen: 44.863 ug/l
RT: 8.365 min Scan# 1090
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 75 Resp: 161834

Ion	Ratio	Lower	Upper
75	100		
110	32.4	16.5	49.5
77	31.8	24.4	36.6

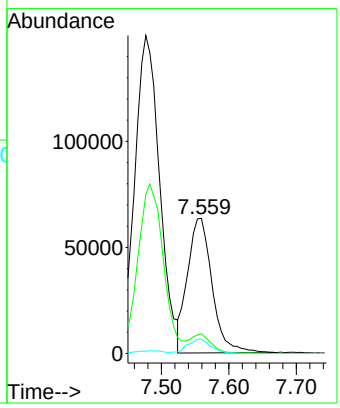




#37
Ethyl Acetate
Concen: 44.123 ug/l
RT: 7.559 min Scan# 95
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 43 Resp: 160656

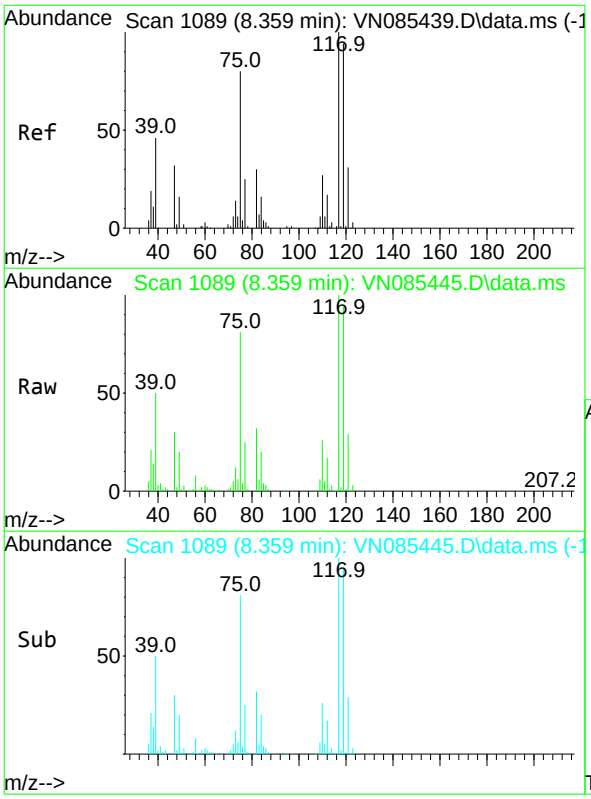
Ion	Ratio	Lower	Upper
43	100		
61	11.9	10.9	16.3
70	10.2	7.5	11.3



Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Manual Integrations APPROVED

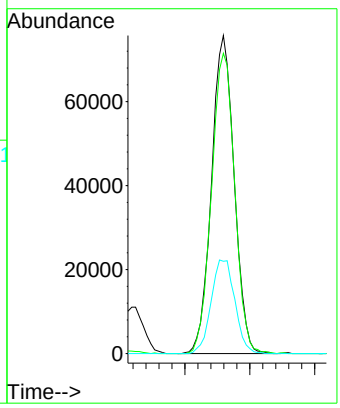
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

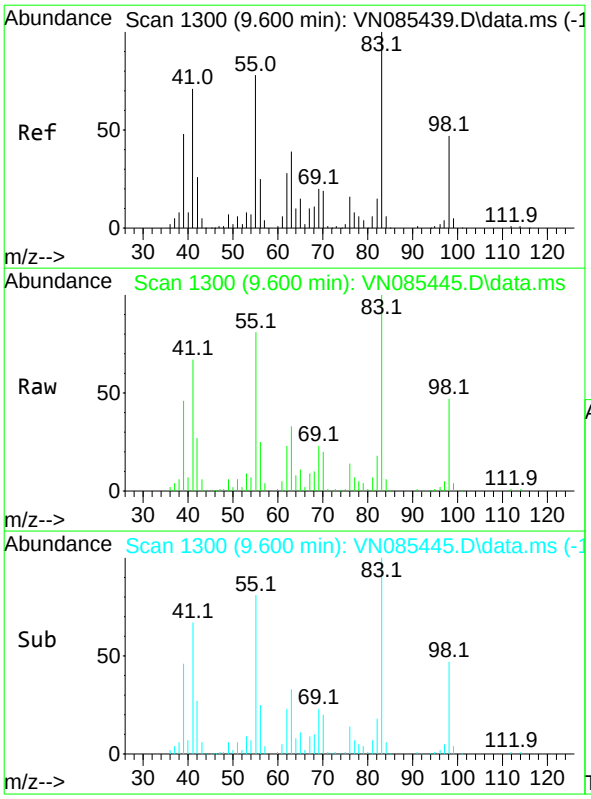


#38
Carbon Tetrachloride
Concen: 44.456 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion:117 Resp: 183592

Ion	Ratio	Lower	Upper
117	100		
119	94.4	75.4	113.2
121	29.0	24.6	37.0

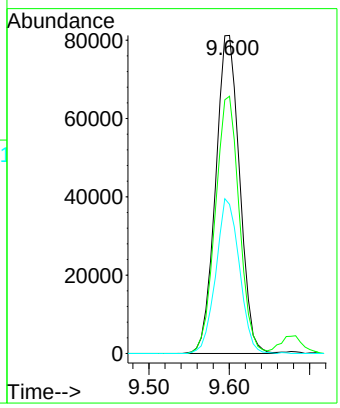




#39
Methylcyclohexane
Concen: 49.687 ug/l
RT: 9.600 min Scan# 13
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 83 Resp: 168431

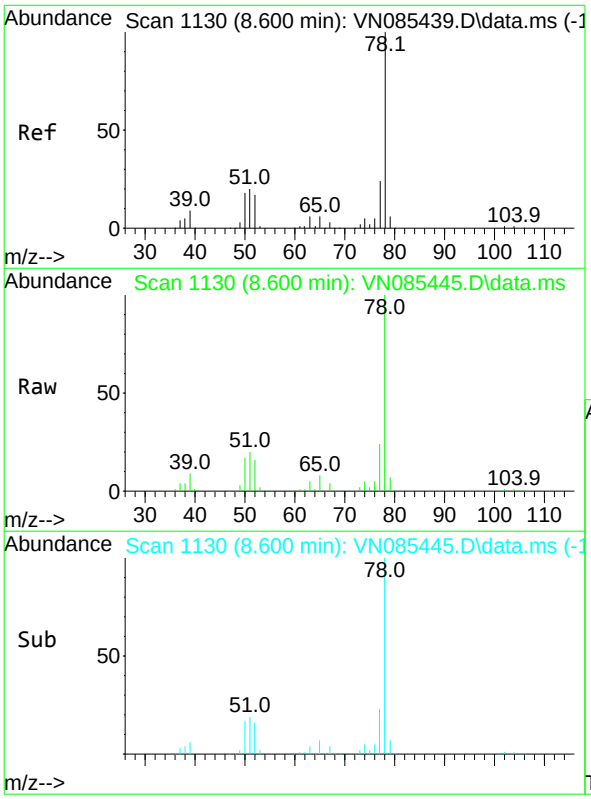
Ion	Ratio	Lower	Upper
83	100		
55	80.9	62.6	94.0
98	46.9	37.7	56.5



Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Manual Integrations APPROVED

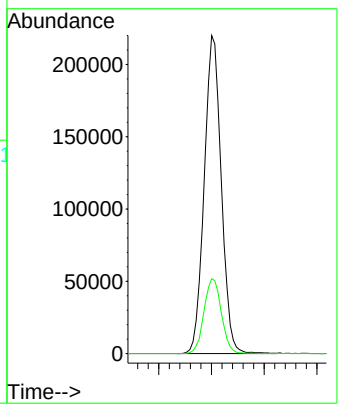
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

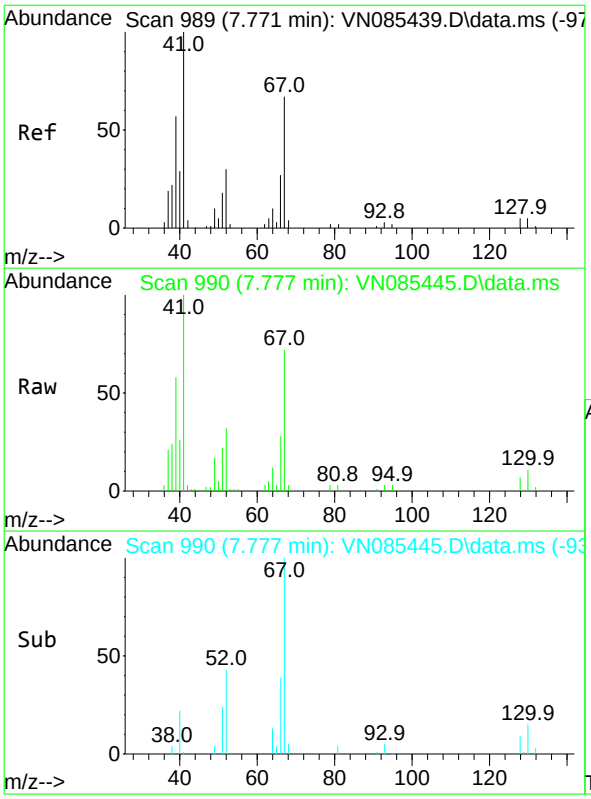


#40
Benzene
Concen: 45.657 ug/l
RT: 8.600 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 78 Resp: 494871

Ion	Ratio	Lower	Upper
78	100		
77	23.5	19.0	28.6

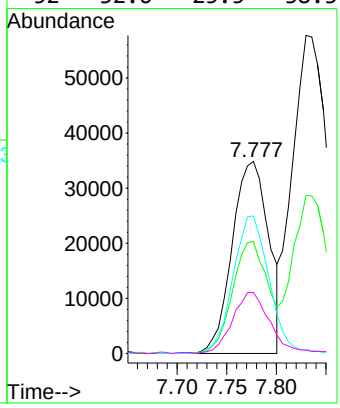




#41
Methacrylonitrile
Concen: 47.155 ug/l
RT: 7.777 min Scan# 99
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 41 Resp: 89326

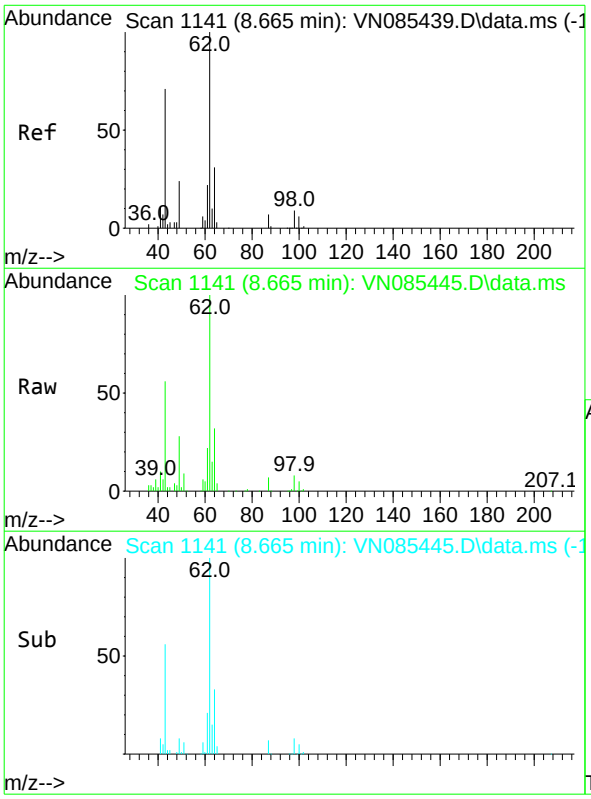
Ion	Ratio	Lower	Upper
41	100		
39	56.6	46.0	69.0
67	70.9	57.4	86.2
52	32.6	25.5	38.3



Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Manual Integrations APPROVED

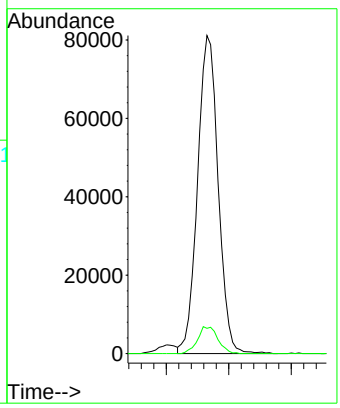
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

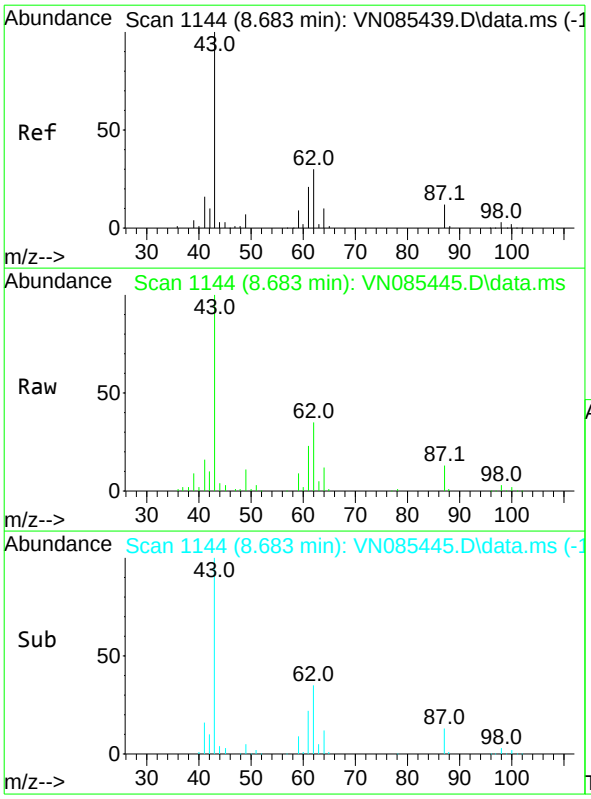


#42
1,2-Dichloroethane
Concen: 45.481 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 62 Resp: 185663

Ion	Ratio	Lower	Upper
62	100		
98	8.3	0.0	17.0

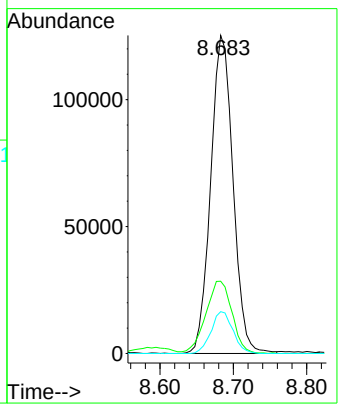




#43
Isopropyl Acetate
Concen: 45.440 ug/l
RT: 8.683 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 43 Resp: 265107

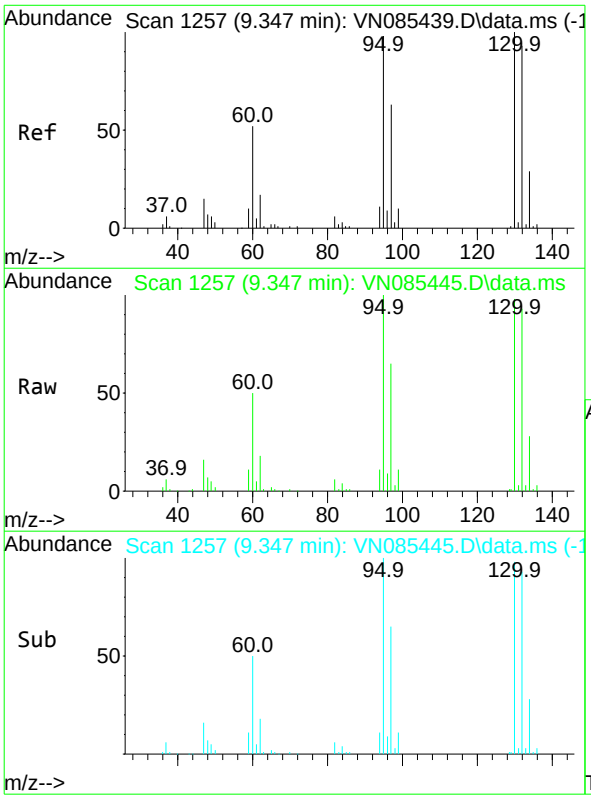
Ion	Ratio	Lower	Upper
43	100		
61	26.7	20.7	31.1
87	12.9	9.8	14.8



Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Manual Integrations APPROVED

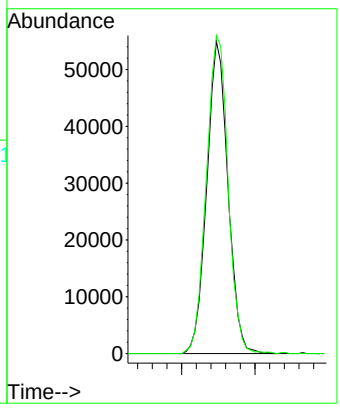
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

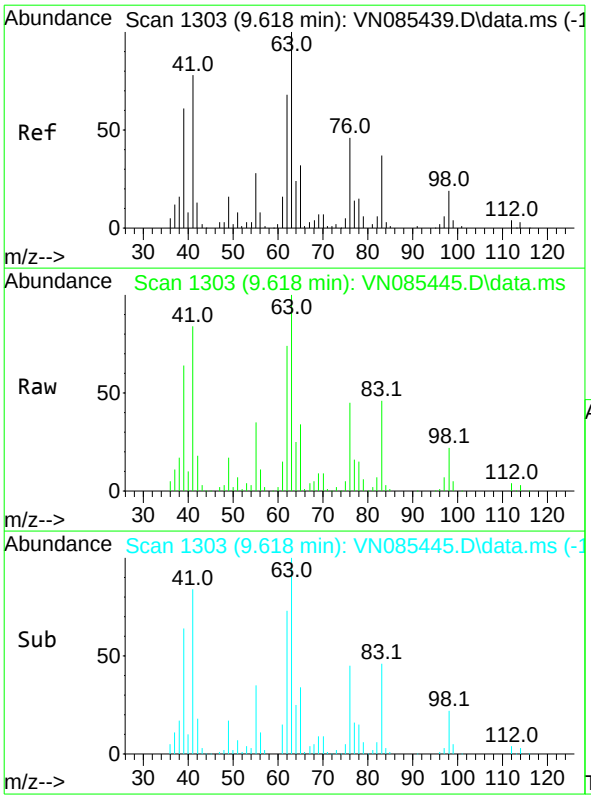


#44
Trichloroethene
Concen: 43.622 ug/l
RT: 9.347 min Scan# 1257
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion:130 Resp: 110058

Ion	Ratio	Lower	Upper
130	100		
95	101.9	0.0	195.8

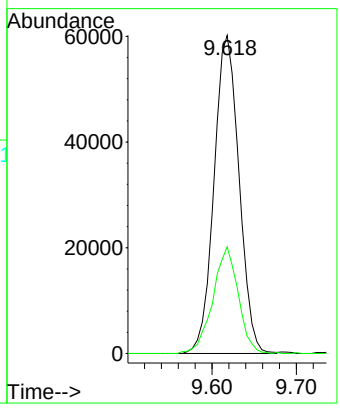




#45
1,2-Dichloropropane
Concen: 44.744 ug/l
RT: 9.618 min Scan# 13
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 63 Resp: 123876

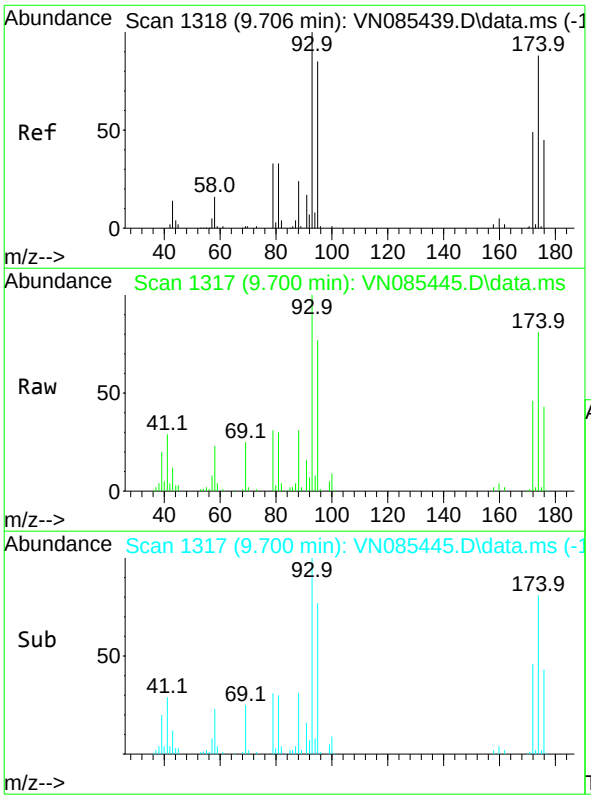
Ion	Ratio	Lower	Upper
63	100		
65	33.5	25.6	38.4



Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Manual Integrations APPROVED

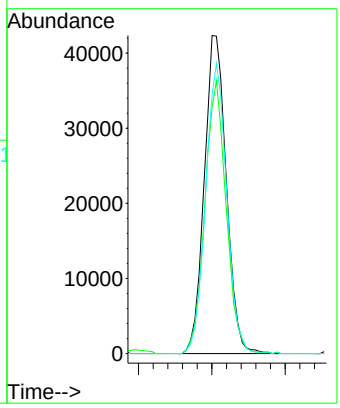
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

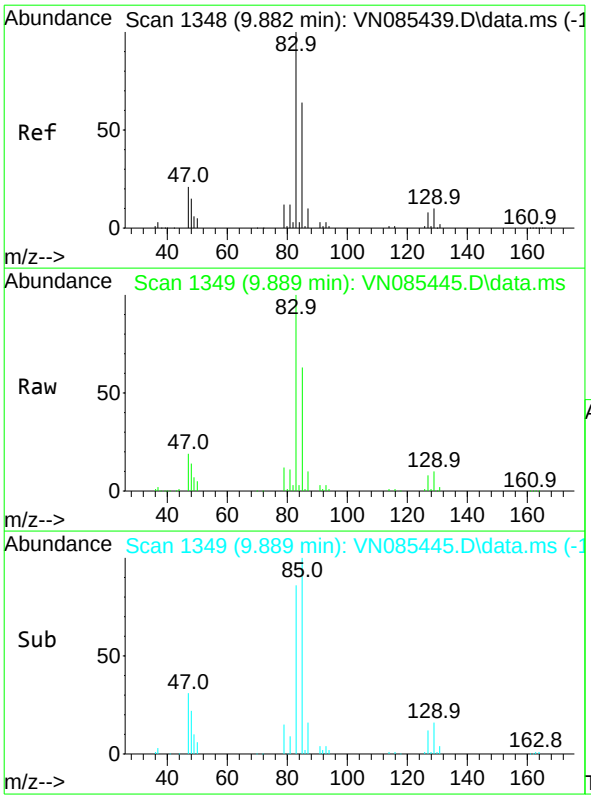


#46
Dibromomethane
Concen: 44.214 ug/l
RT: 9.700 min Scan# 1317
Delta R.T. -0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 93 Resp: 88325

Ion	Ratio	Lower	Upper
93	100		
95	82.9	64.7	97.1
174	88.0	69.0	103.4

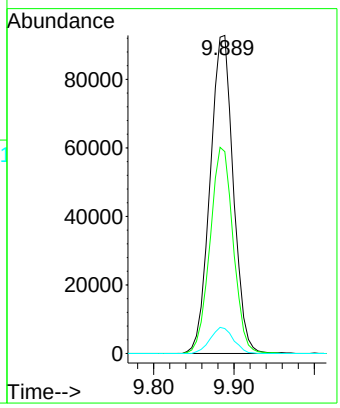




#47
Bromodichloromethane
Concen: 45.655 ug/l
RT: 9.889 min Scan# 13
Delta R.T. 0.007 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 83 Resp: 185808

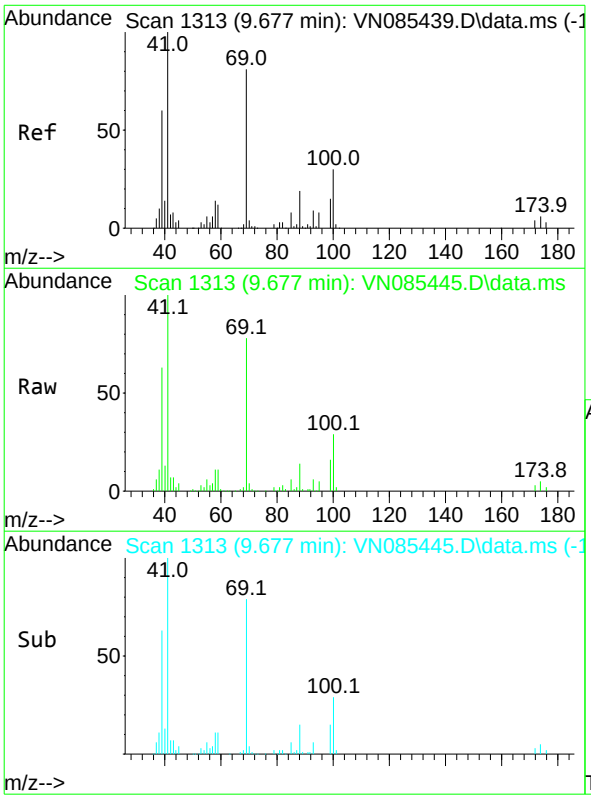
Ion	Ratio	Lower	Upper
83	100		
85	63.5	51.2	76.8
127	7.8	6.5	9.7



Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Manual Integrations APPROVED

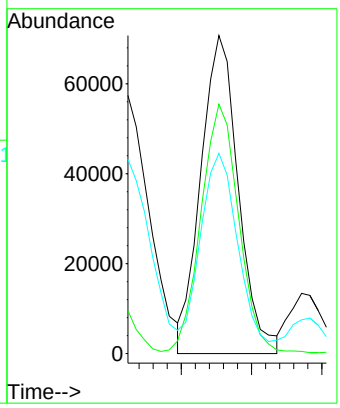
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

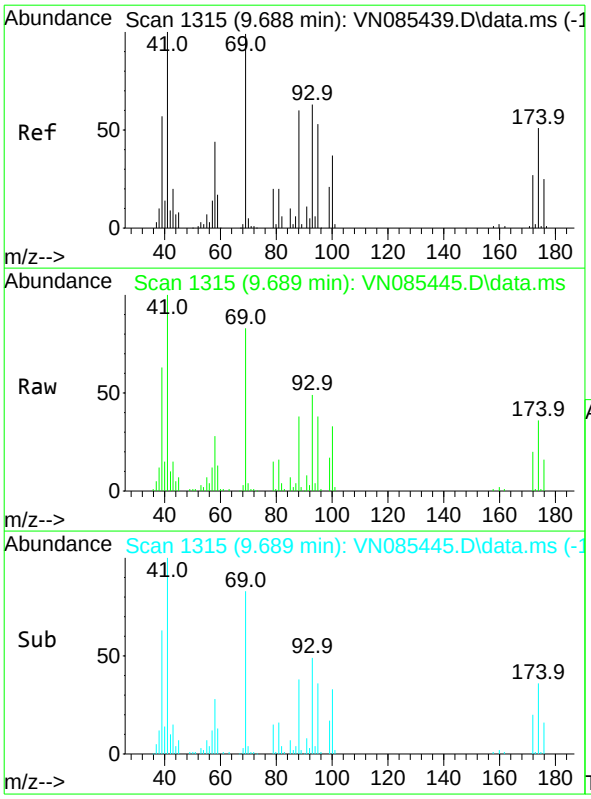


#48
Methyl methacrylate
Concen: 49.948 ug/l
RT: 9.677 min Scan# 1313
Delta R.T. -0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 41 Resp: 131142

Ion	Ratio	Lower	Upper
41	100		
69	78.6	64.7	97.1
39	63.3	49.0	73.6

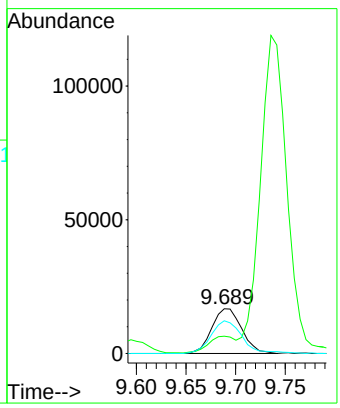




#49
1,4-Dioxane
Concen: 792.760 ug/l
RT: 9.689 min Scan# 13
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 88 Resp: 35051

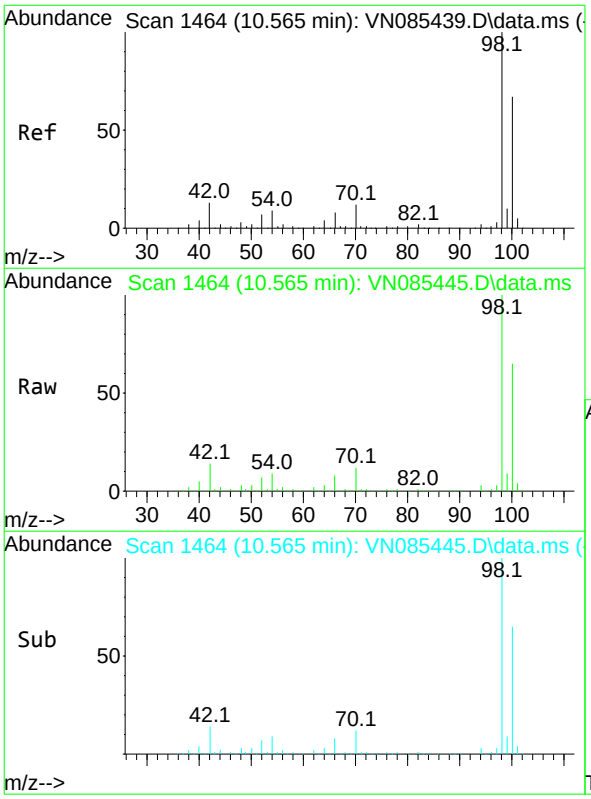
Ion	Ratio	Lower	Upper
88	100		
43	33.8	26.6	39.8
58	76.1	59.5	89.3



Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Manual Integrations APPROVED

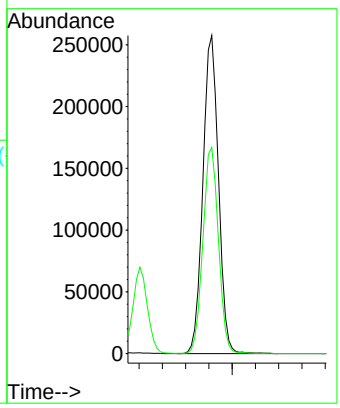
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

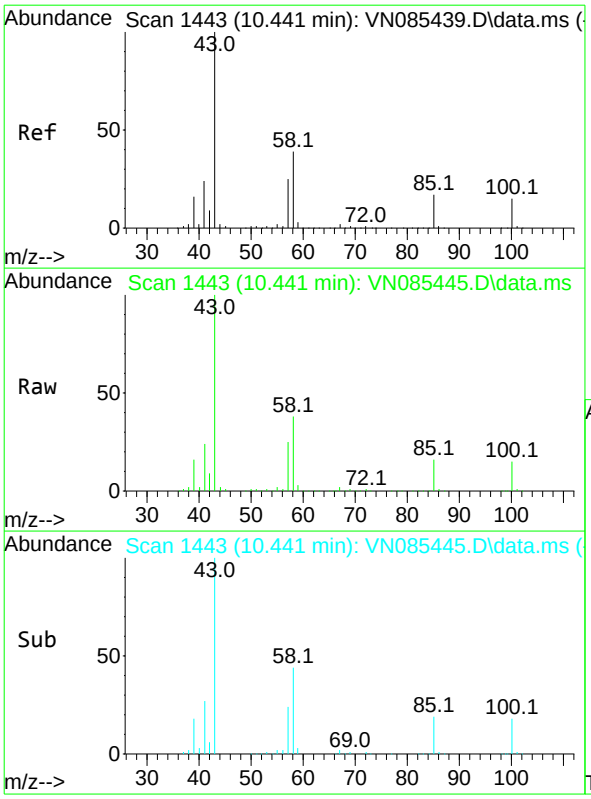


#50
Toluene-d8
Concen: 52.302 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 98 Resp: 477630

Ion	Ratio	Lower	Upper
98	100		
100	64.7	52.2	78.4

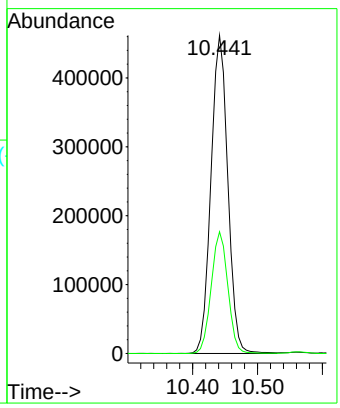




#51
4-Methyl-2-Pentanone
Concen: 245.877 ug/l
RT: 10.441 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 43 Resp: 832426

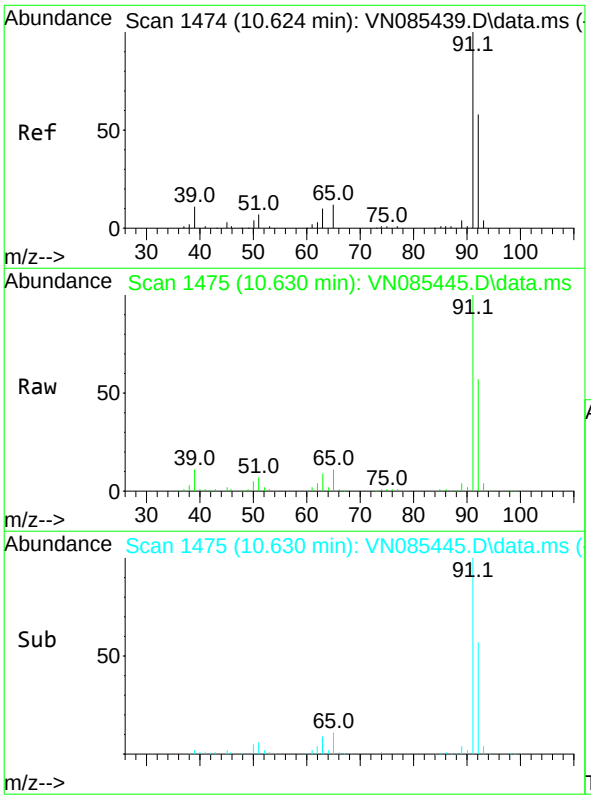
Ion	Ratio	Lower	Upper
43	100		
58	37.8	30.5	45.7



Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Manual Integrations APPROVED

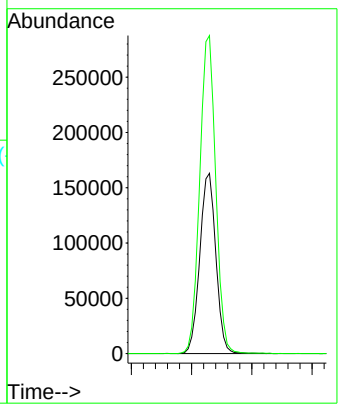
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

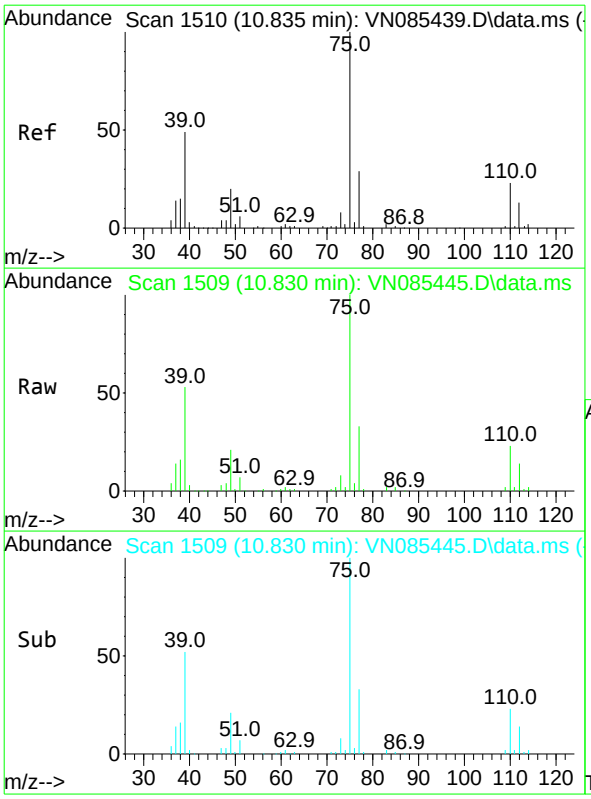


#52
Toluene
Concen: 48.073 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 92 Resp: 301911

Ion	Ratio	Lower	Upper
92	100		
91	175.7	139.2	208.8

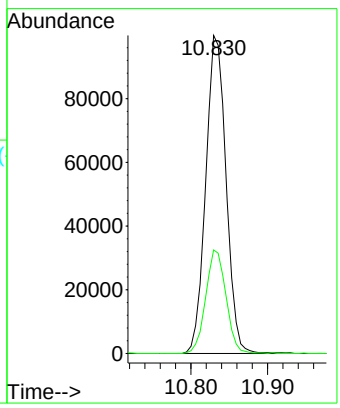




#53
t-1,3-Dichloropropene
Concen: 47.757 ug/l
RT: 10.830 min Scan# 15
Delta R.T. -0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 75 Resp: 183680

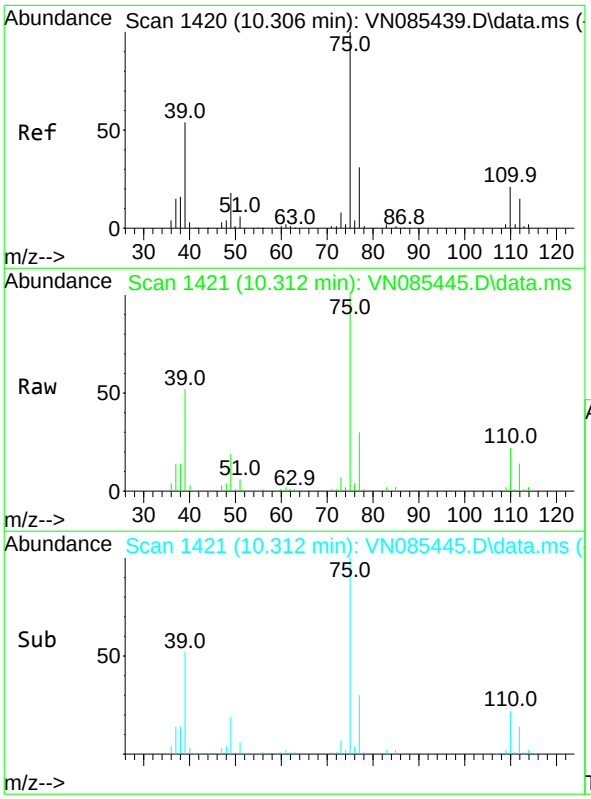
Ion	Ratio	Lower	Upper
75	100		
77	32.6	23.5	35.3



Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Manual Integrations APPROVED

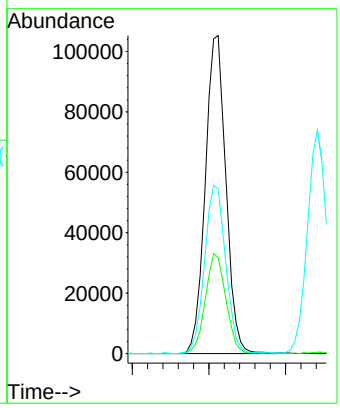
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

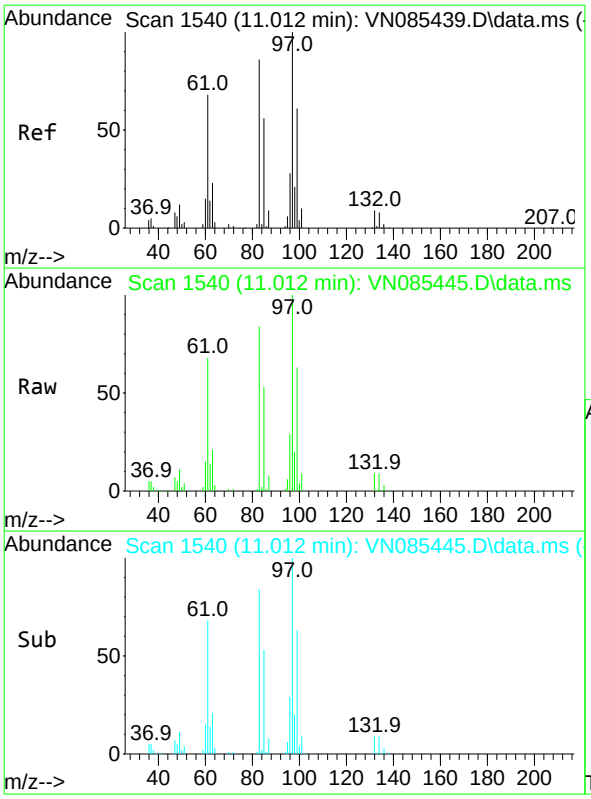


#54
cis-1,3-Dichloropropene
Concen: 47.783 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 75 Resp: 196307

Ion	Ratio	Lower	Upper
75	100		
77	30.2	25.0	37.4
39	51.9	43.1	64.7

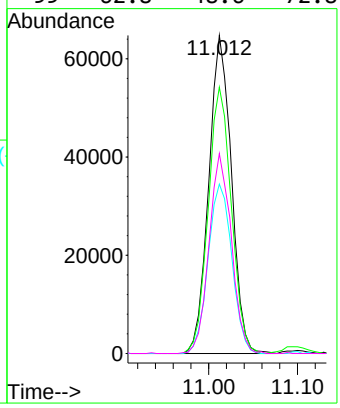




#55
1,1,2-Trichloroethane
Concen: 46.173 ug/l
RT: 11.012 min Scan# 15
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 97 Resp: 114757

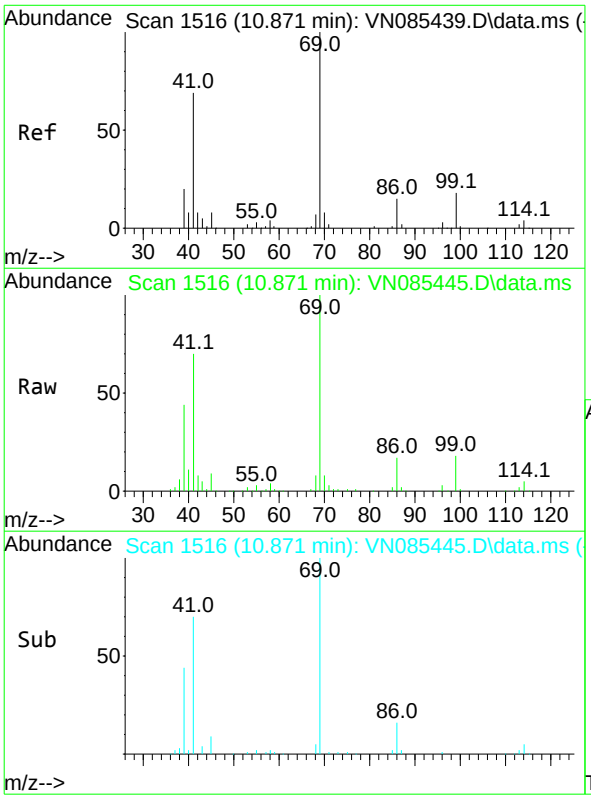
Ion	Ratio	Lower	Upper
97	100		
83	83.7	69.0	103.6
85	53.2	44.6	66.8
99	62.8	48.6	72.8



Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Manual Integrations APPROVED

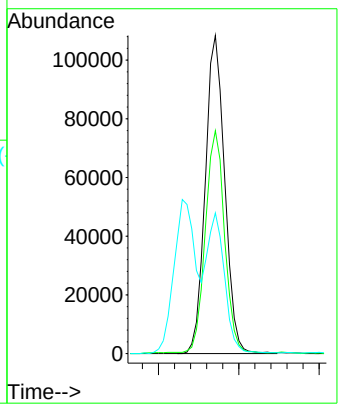
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

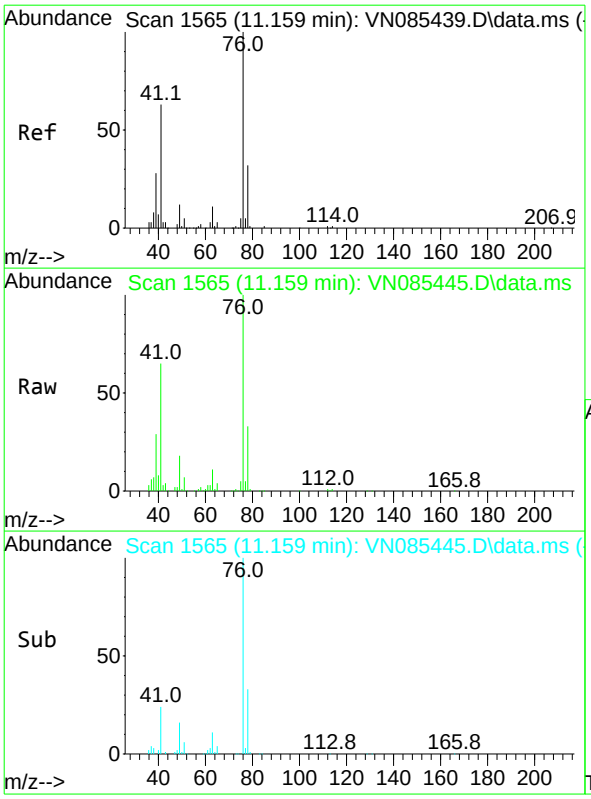


#56
Ethyl methacrylate
Concen: 43.762 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 69 Resp: 182170

Ion	Ratio	Lower	Upper
69	100		
41	70.4	54.6	82.0
39	40.2	32.4	48.6

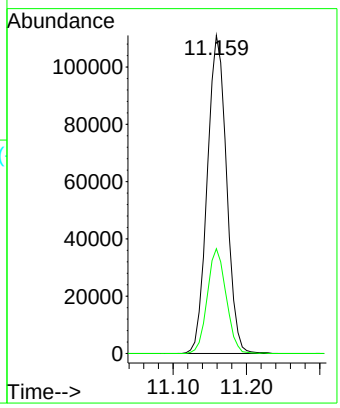




#57
1,3-Dichloropropane
Concen: 46.877 ug/l
RT: 11.159 min Scan# 15
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 76 Resp: 202583

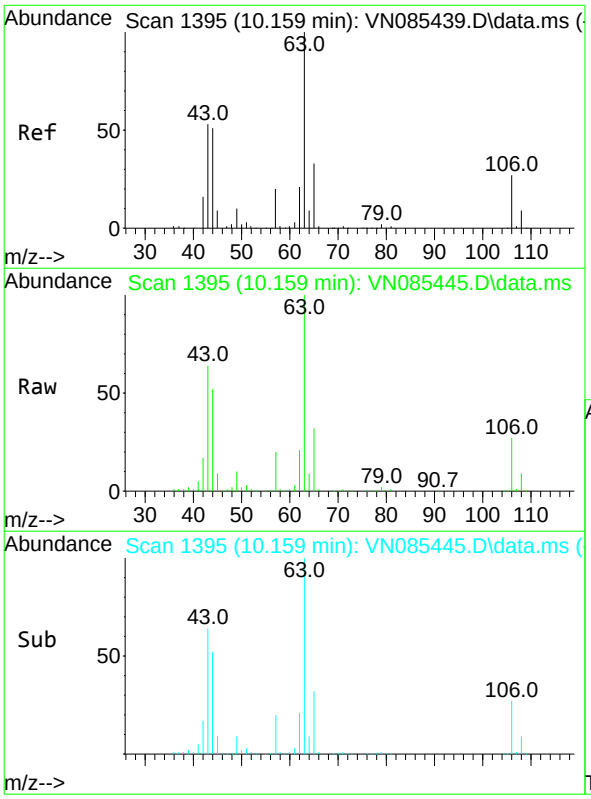
Ion	Ratio	Lower	Upper
76	100		
78	32.1	25.6	38.4



Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Manual Integrations APPROVED

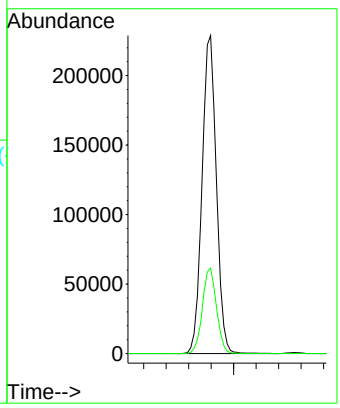
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

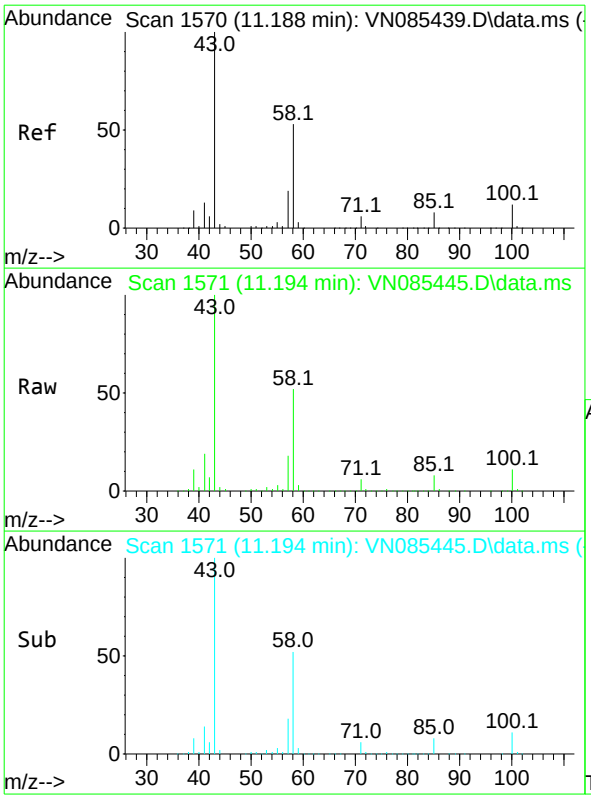


#58
2-Chloroethyl Vinyl ether
Concen: 256.116 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 63 Resp: 403949

Ion	Ratio	Lower	Upper
63	100		
106	26.4	21.6	32.4

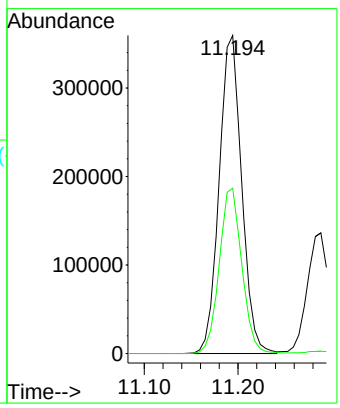




#59
2-Hexanone
Concen: 251.213 ug/l
RT: 11.194 min Scan# 15
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 43 Resp: 598433

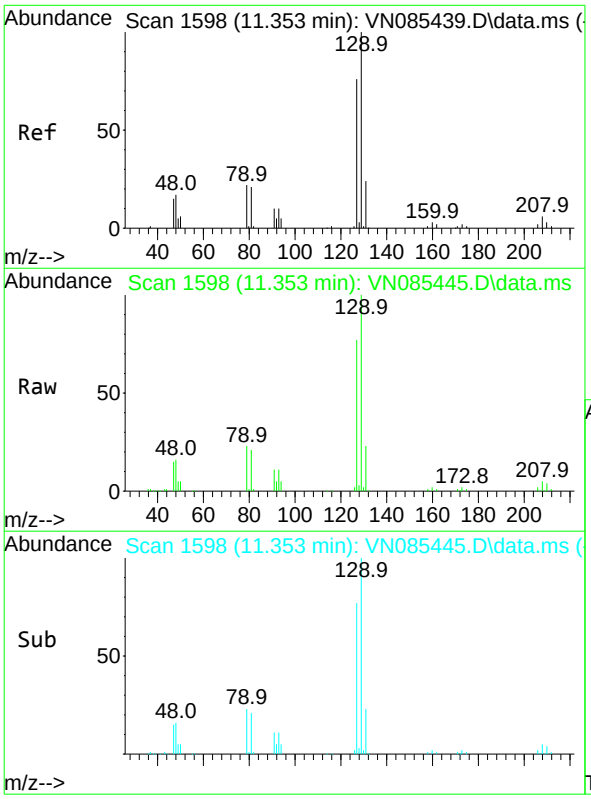
Ion	Ratio	Lower	Upper
43	100		
58	52.1	26.2	78.6



Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Manual Integrations APPROVED

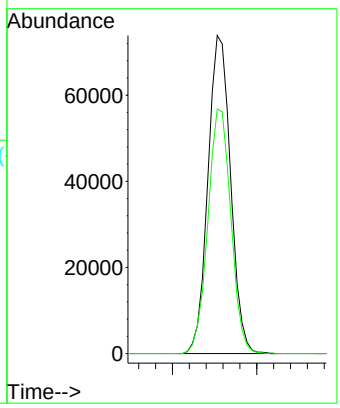
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

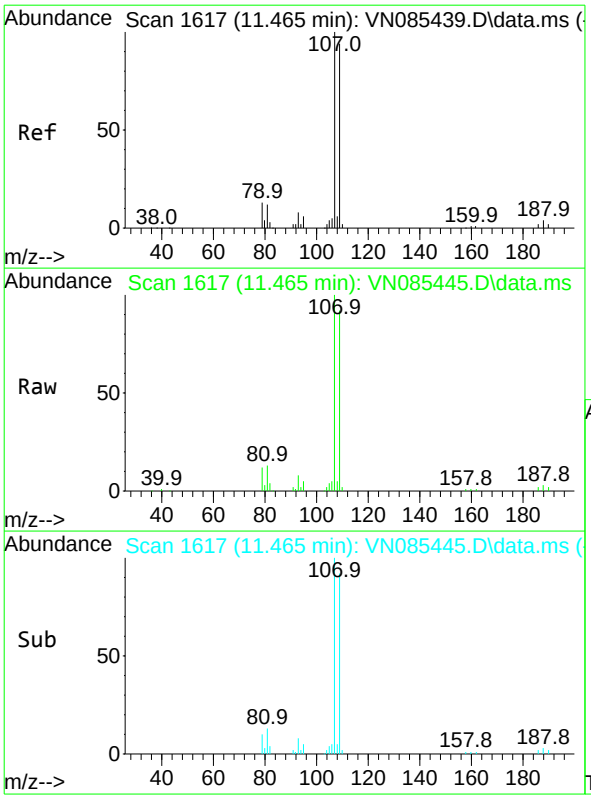


#60
Dibromochloromethane
Concen: 45.935 ug/l
RT: 11.353 min Scan# 1598
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion:129 Resp: 137831

Ion	Ratio	Lower	Upper
129	100		
127	78.1	38.6	115.8

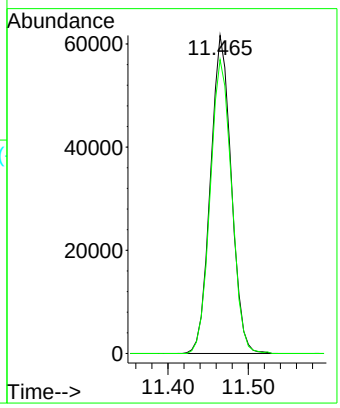




#61
1,2-Dibromoethane
Concen: 44.837 ug/l
RT: 11.465 min Scan# 16
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion:107 Resp: 110926

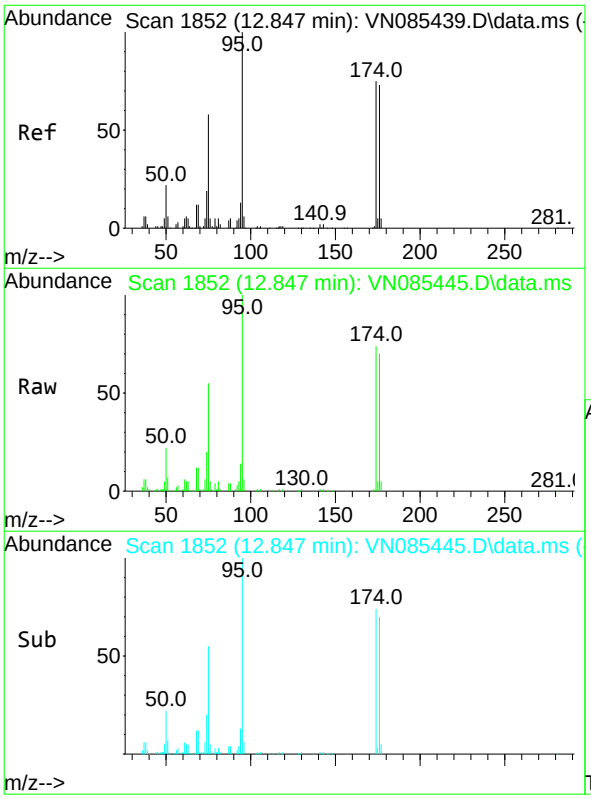
Ion	Ratio	Lower	Upper
107	100		
109	94.7	75.9	113.9



Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Manual Integrations APPROVED

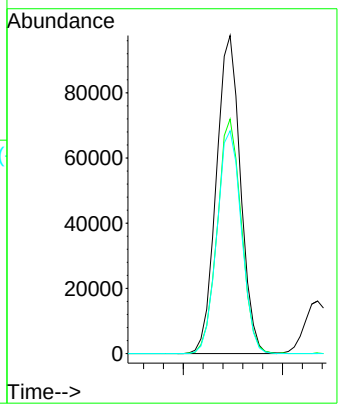
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

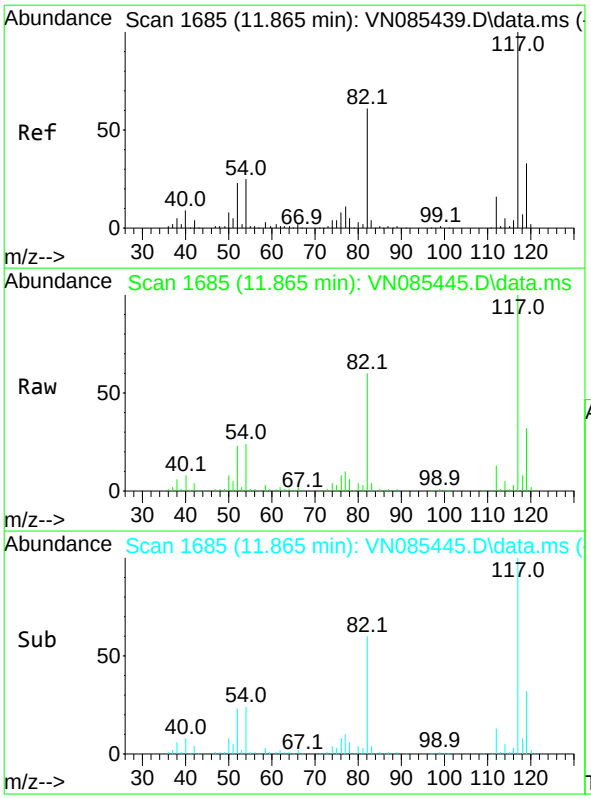


#62
4-Bromofluorobenzene
Concen: 52.899 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 95 Resp: 165249

Ion	Ratio	Lower	Upper
95	100		
174	73.1	0.0	145.0
176	70.8	0.0	142.4

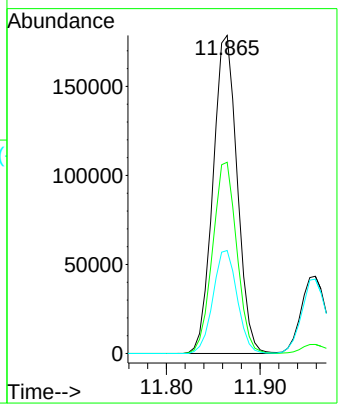




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 16
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion:117 Resp: 320948

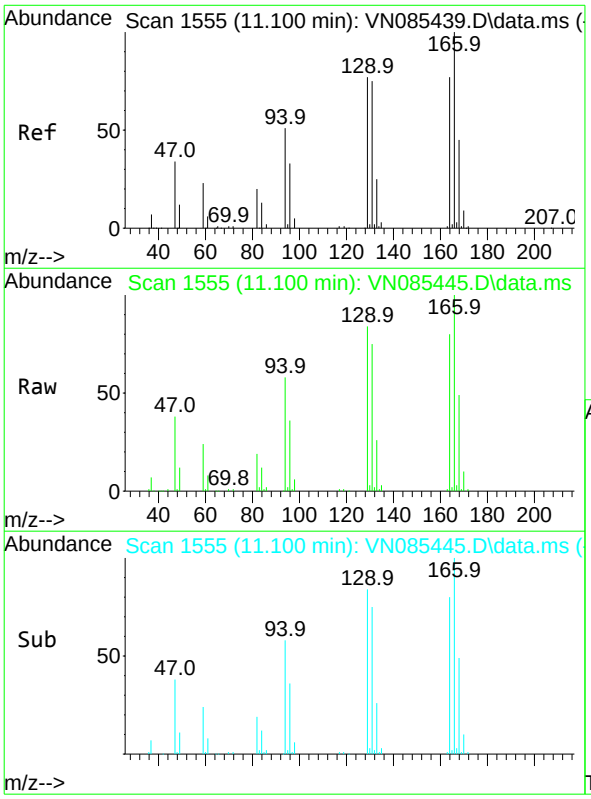
Ion	Ratio	Lower	Upper
117	100		
82	60.1	48.6	72.8
119	32.4	26.6	39.8



Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Manual Integrations APPROVED

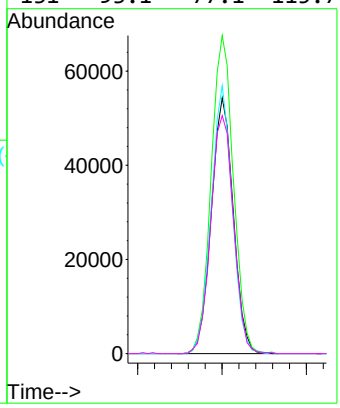
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

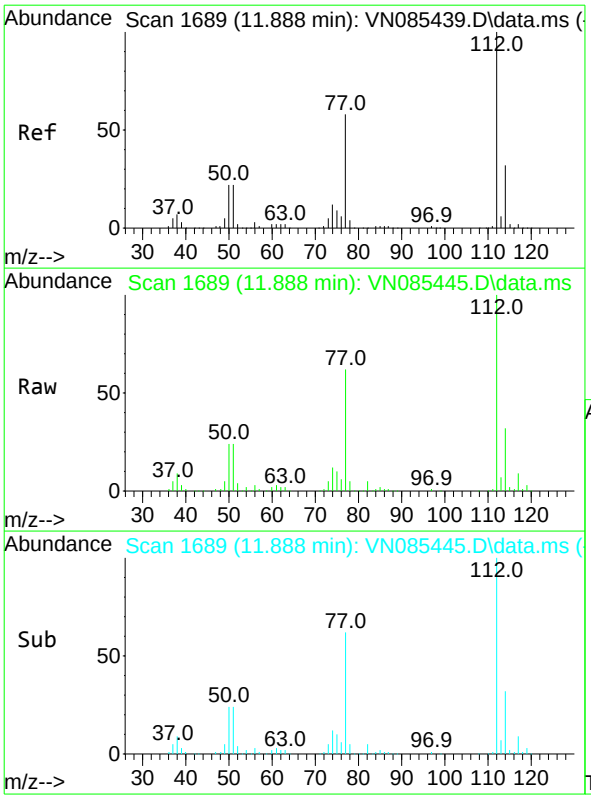


#64
Tetrachloroethene
Concen: 44.886 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion:164 Resp: 98211

Ion	Ratio	Lower	Upper
164	100		
166	124.4	103.4	155.2
129	104.8	79.2	118.8
131	93.1	77.1	115.7

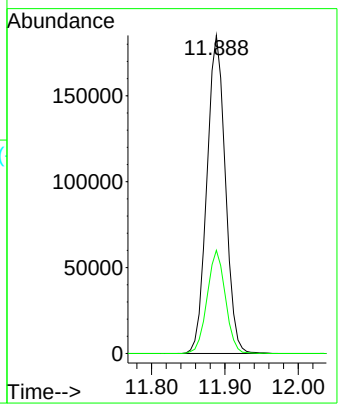




#65
Chlorobenzene
Concen: 45.901 ug/l
RT: 11.888 min Scan# 16
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion:112 Resp: 322723

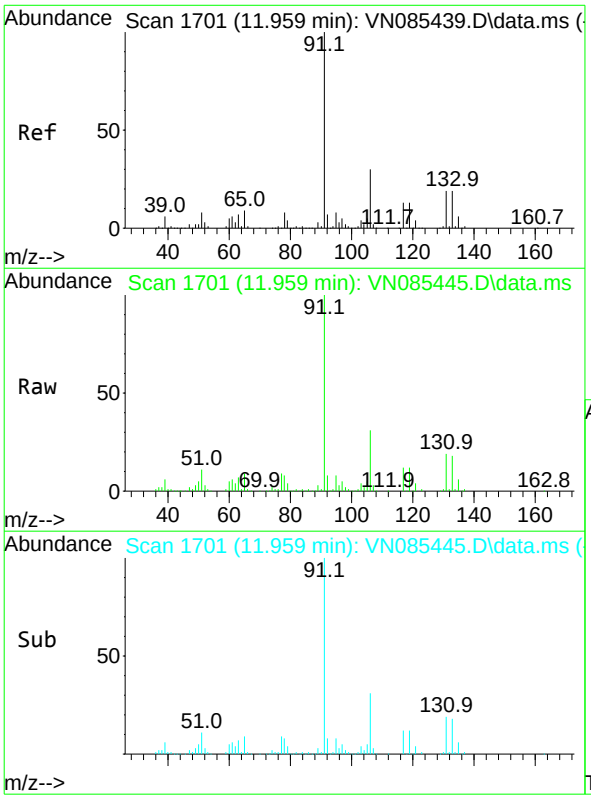
Ion	Ratio	Lower	Upper
112	100		
114	32.4	25.3	37.9



Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Manual Integrations APPROVED

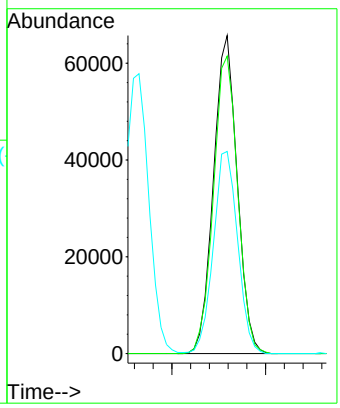
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

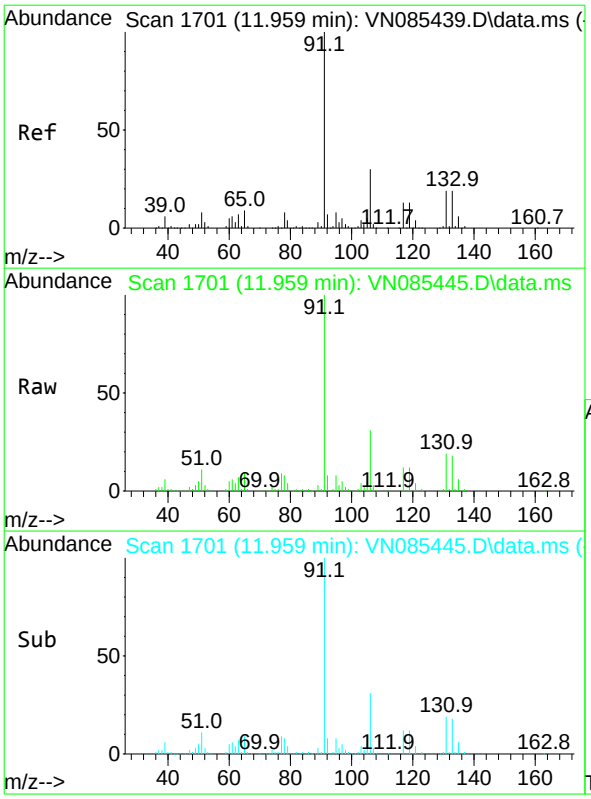


#66
1,1,1,2-Tetrachloroethane
Concen: 44.712 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion:131 Resp: 115379

Ion	Ratio	Lower	Upper
131	100		
133	95.8	47.4	142.3
119	65.2	33.1	99.5

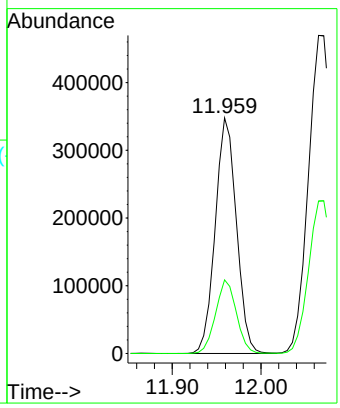




#67
Ethyl Benzene
Concen: 50.391 ug/l
RT: 11.959 min Scan# 17
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 91 Resp: 577059

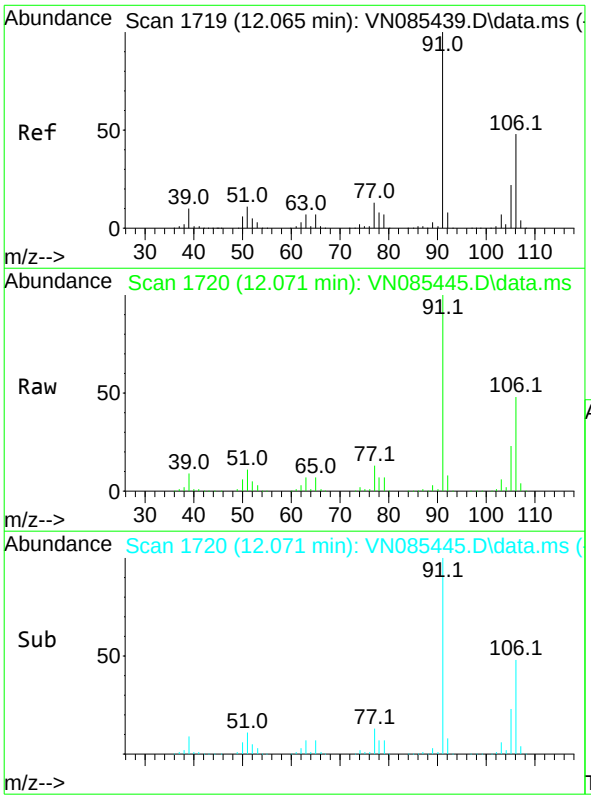
Ion	Ratio	Lower	Upper
91	100		
106	31.2	23.8	35.8



Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Manual Integrations APPROVED

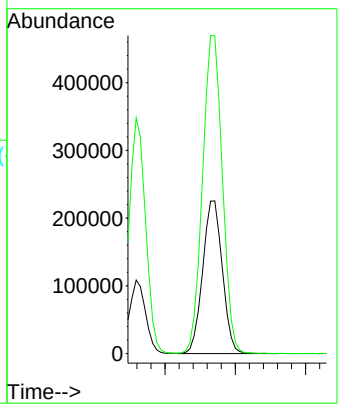
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

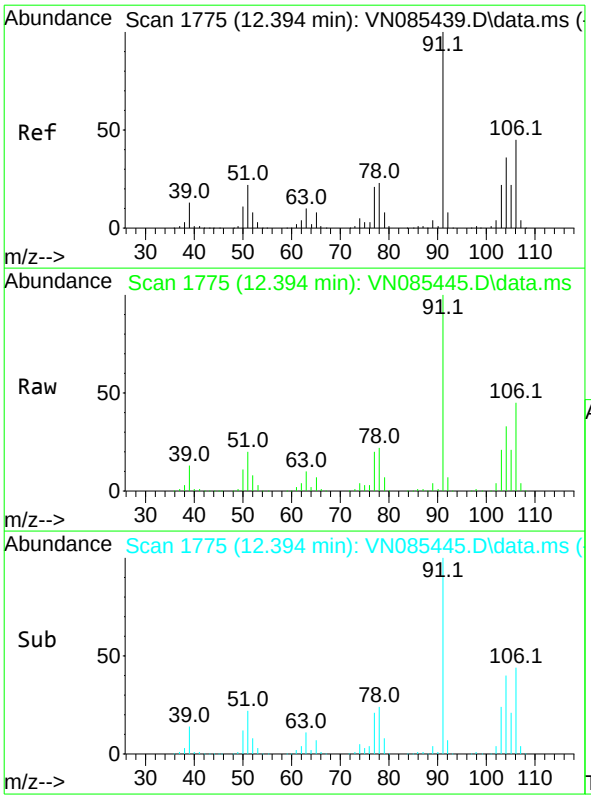


#68
m/p-Xylenes
Concen: 103.341 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion:106 Resp: 437367

Ion	Ratio	Lower	Upper
106	100		
91	210.1	167.7	251.5

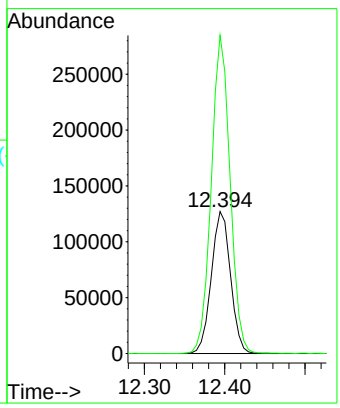




#69
o-Xylene
Concen: 52.093 ug/l
RT: 12.394 min Scan# 17
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion:106 Resp: 210698

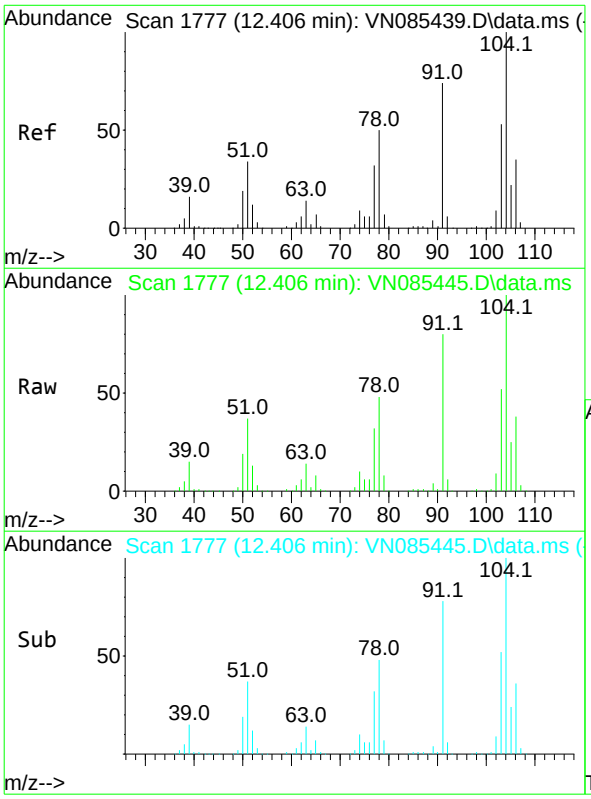
Ion	Ratio	Lower	Upper
106	100		
91	219.9	110.4	331.2



Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Manual Integrations APPROVED

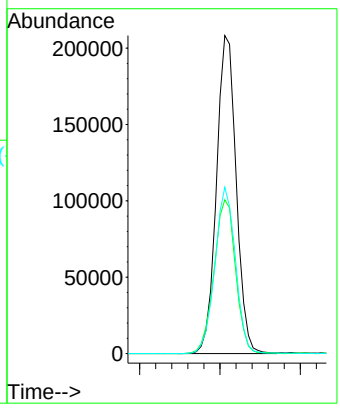
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

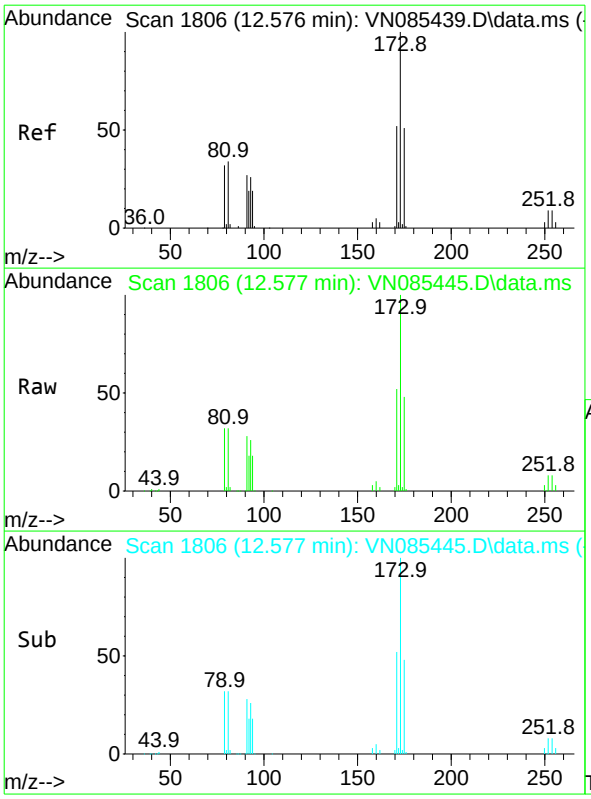


#70
Styrene
Concen: 53.103 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion:104 Resp: 355459

Ion	Ratio	Lower	Upper
104	100		
78	52.8	42.5	63.7
103	54.5	43.8	65.8

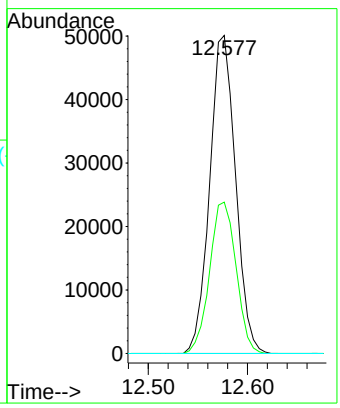




#71
Bromoform
Concen: 49.119 ug/l
RT: 12.577 min Scan# 18
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion:173 Resp: 90693

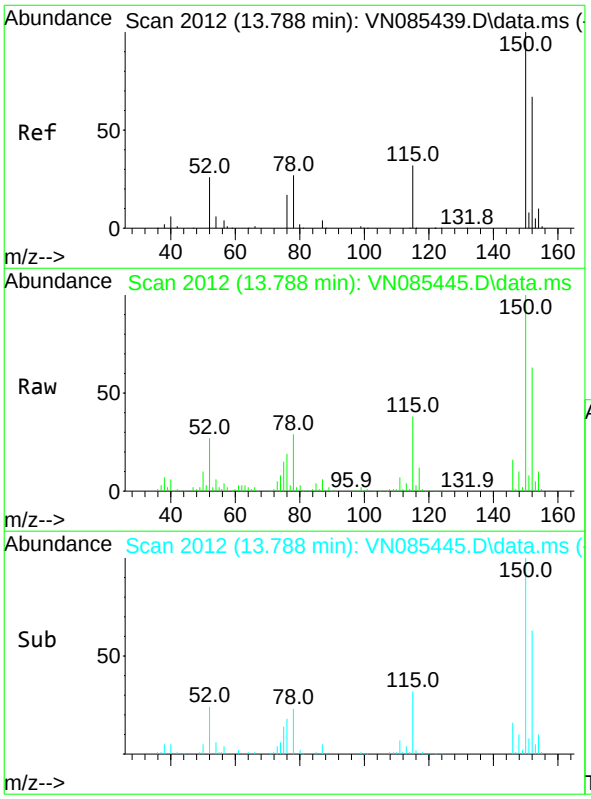
Ion	Ratio	Lower	Upper
173	100		
175	48.7	24.4	73.2
254	0.0	0.0	0.0



Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Manual Integrations APPROVED

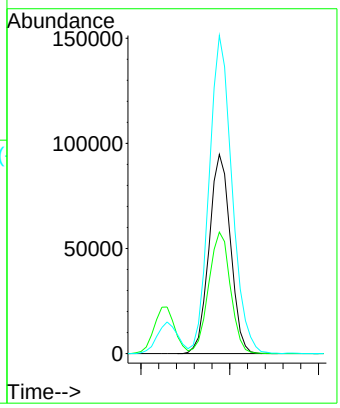
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

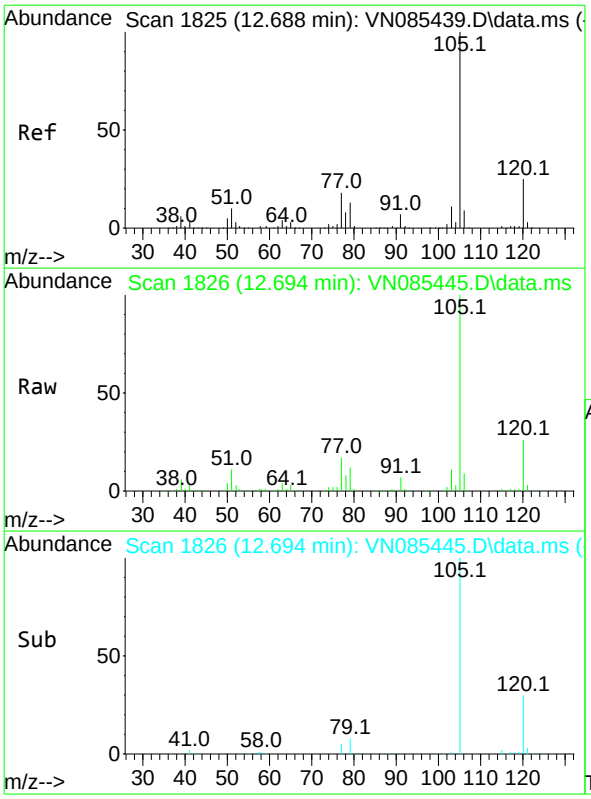


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion:152 Resp: 158525

Ion	Ratio	Lower	Upper
152	100		
115	62.2	31.1	93.3
150	171.0	0.0	343.6

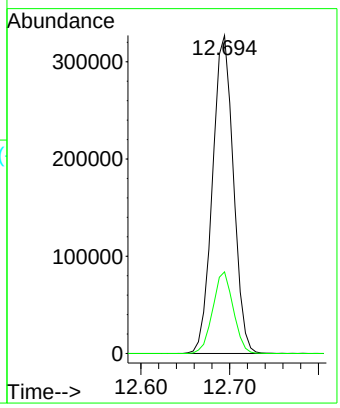




#73
Isopropylbenzene
Concen: 49.951 ug/l
RT: 12.694 min Scan# 18
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion:105 Resp: 534428

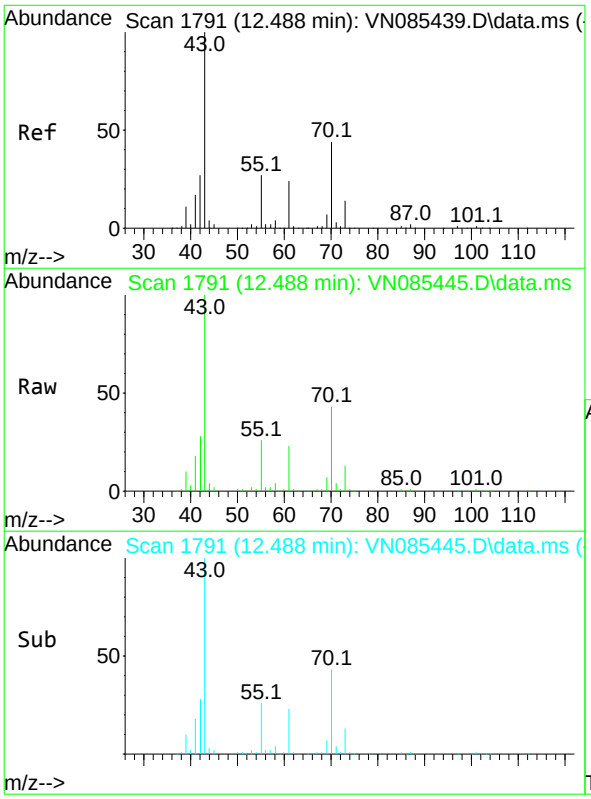
Ion	Ratio	Lower	Upper
105	100		
120	25.2	12.8	38.3



Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Manual Integrations APPROVED

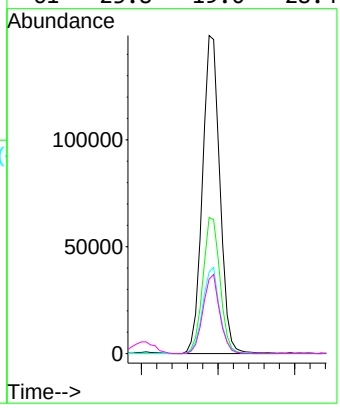
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

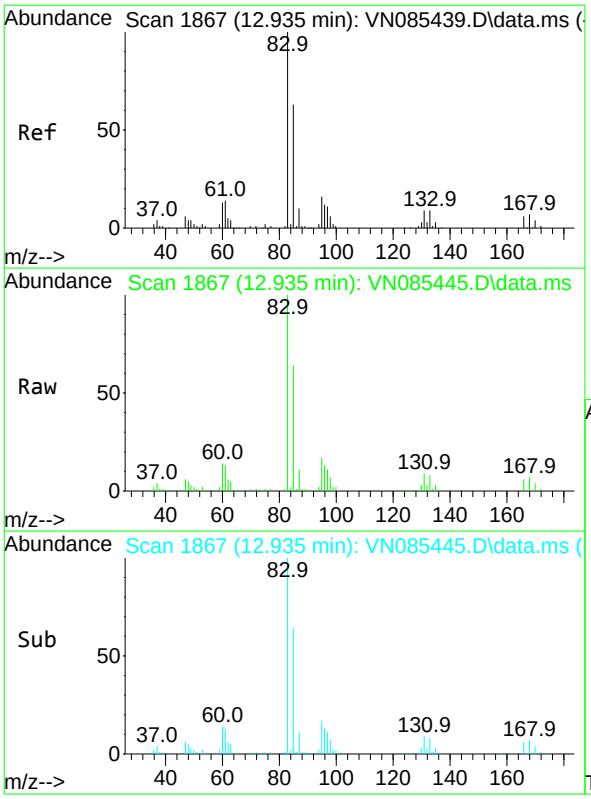


#74
N-amyl acetate
Concen: 48.730 ug/l
RT: 12.488 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 43 Resp: 234342

Ion	Ratio	Lower	Upper
43	100		
70	42.2	34.0	51.0
55	26.5	21.4	32.2
61	23.8	19.0	28.4

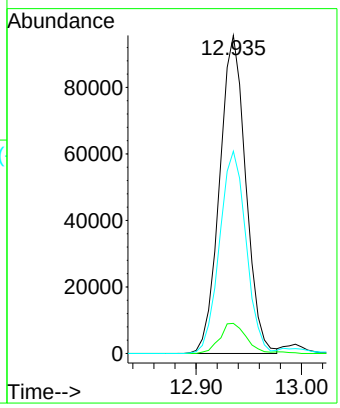




#75
1,1,2,2-Tetrachloroethane
Concen: 43.627 ug/l
RT: 12.935 min Scan# 18
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 83 Resp: 164882

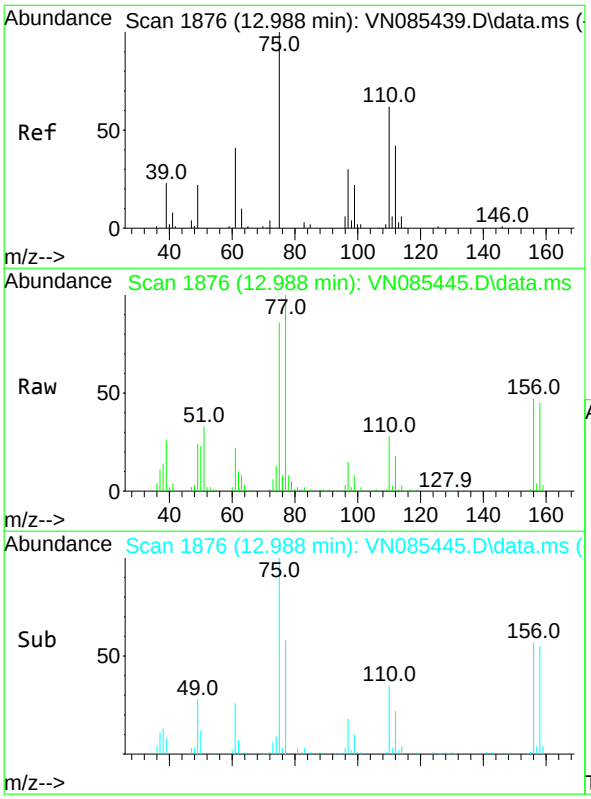
Ion	Ratio	Lower	Upper
83	100		
131	9.9	4.8	14.4
85	64.6	32.2	96.6



Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Manual Integrations APPROVED

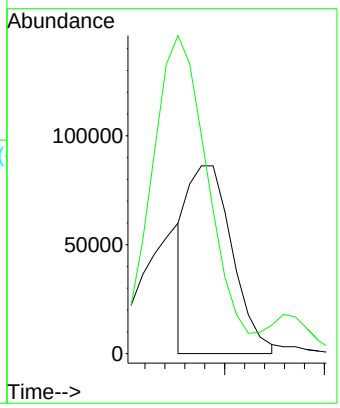
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

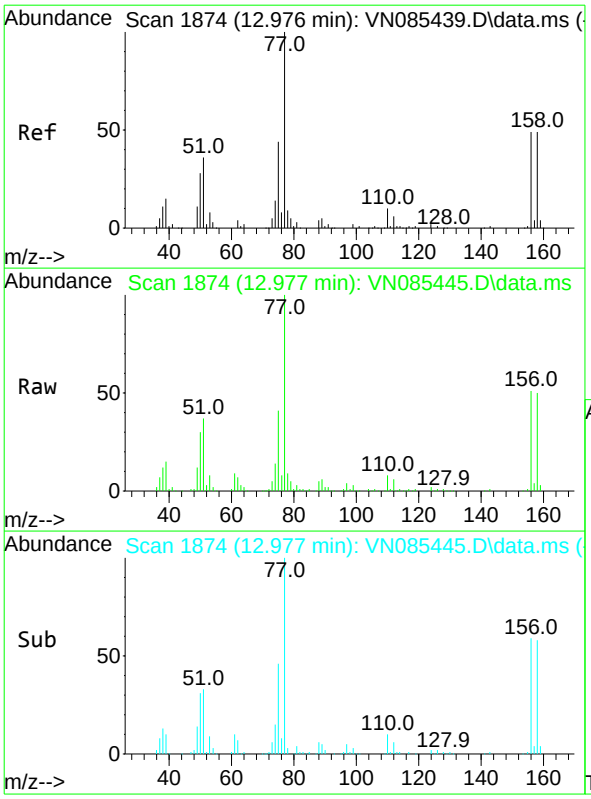


#76
1,2,3-Trichloropropane
Concen: 41.891 ug/l m
RT: 12.988 min Scan# 1876
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 75 Resp: 134976

Ion	Ratio	Lower	Upper
75	100		
77	213.9	109.7	329.2

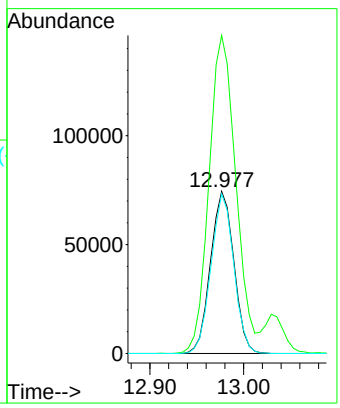




#77
Bromobenzene
Concen: 46.138 ug/l
RT: 12.977 min Scan# 18
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion:156 Resp: 128968

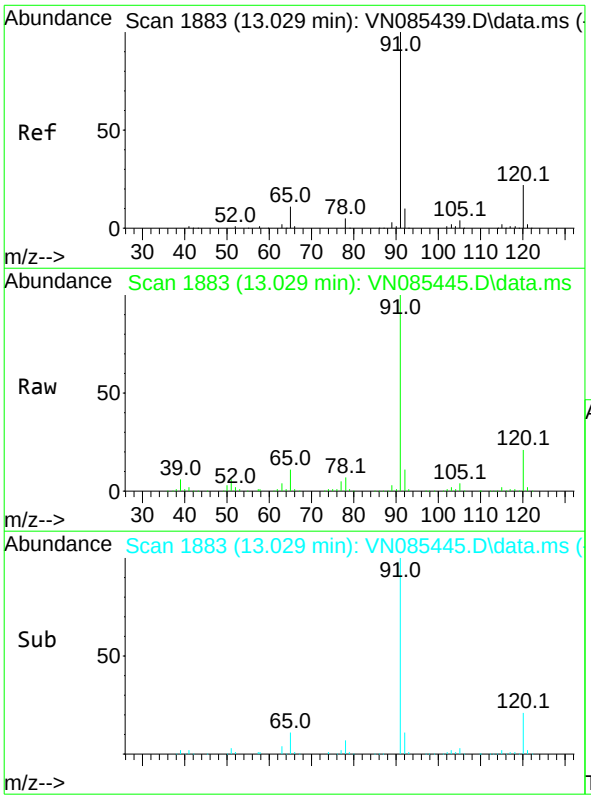
Ion	Ratio	Lower	Upper
156	100		
77	223.8	114.1	342.4
158	95.7	48.9	146.8



Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Manual Integrations
APPROVED

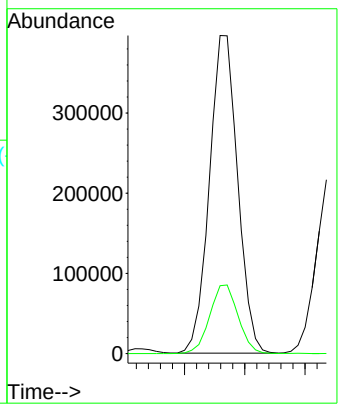
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

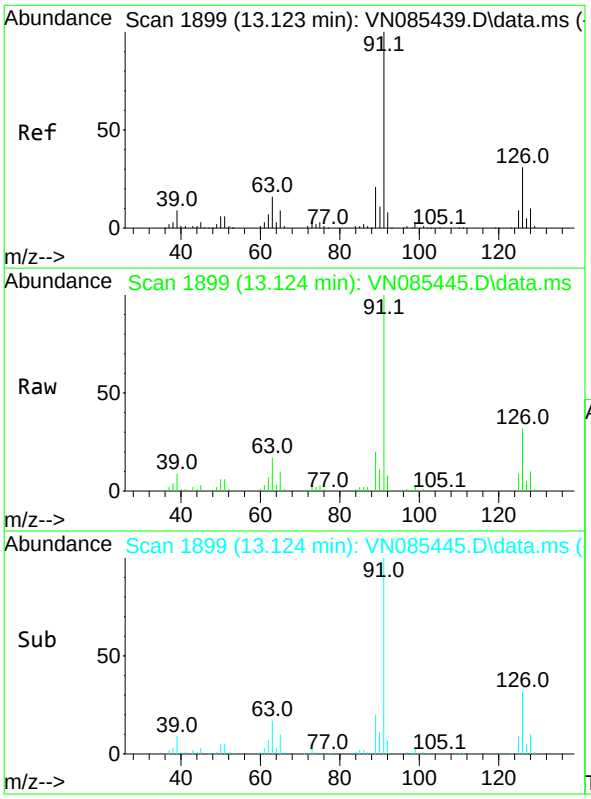


#78
n-propylbenzene
Concen: 51.001 ug/l
RT: 13.029 min Scan# 1883
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 91 Resp: 645977

Ion	Ratio	Lower	Upper
91	100		
120	21.7	10.9	32.6

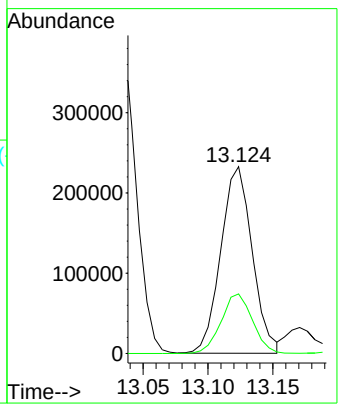




#79
2-Chlorotoluene
Concen: 47.870 ug/l
RT: 13.124 min Scan# 18
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 91 Resp: 392404

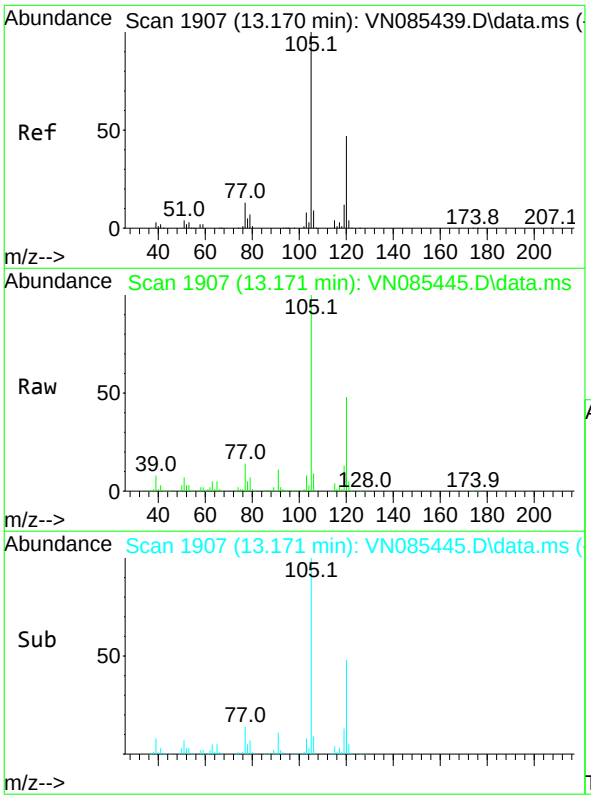
Ion	Ratio	Lower	Upper
91	100		
126	31.8	15.7	47.1



Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Manual Integrations APPROVED

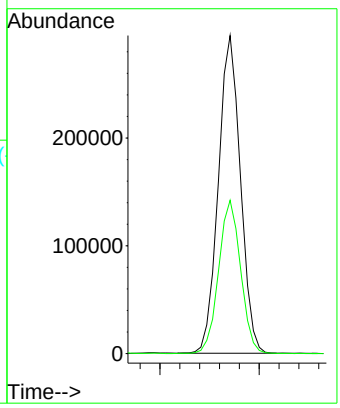
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

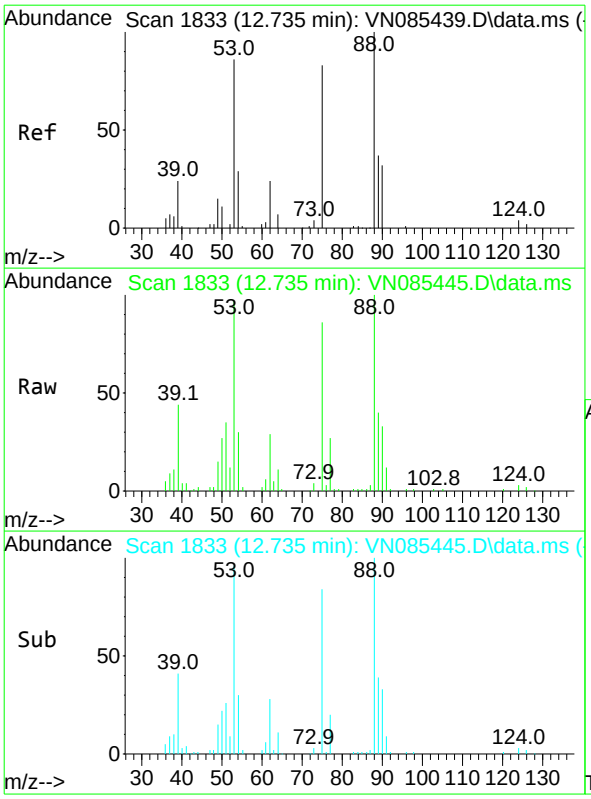


#80
1,3,5-Trimethylbenzene
Concen: 51.604 ug/l
RT: 13.171 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion:105 Resp: 456048

Ion	Ratio	Lower	Upper
105	100		
120	48.1	23.9	71.7

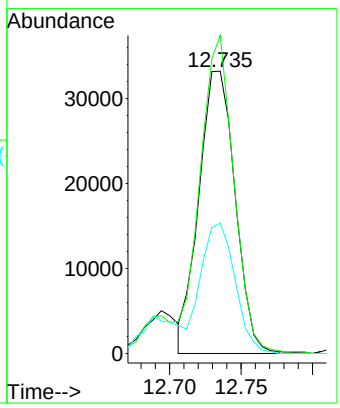




#81
trans-1,4-Dichloro-2-butene
Concen: 49.226 ug/l m
RT: 12.735 min Scan# 18
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 75 Resp: 58623

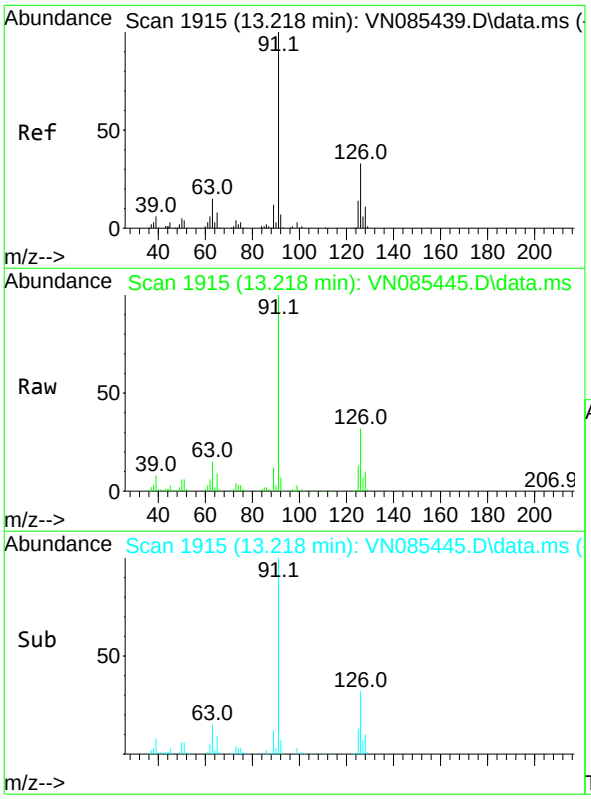
Ion	Ratio	Lower	Upper
75	100		
53	118.0	95.6	143.4
89	43.3	37.0	55.6



Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Manual Integrations APPROVED

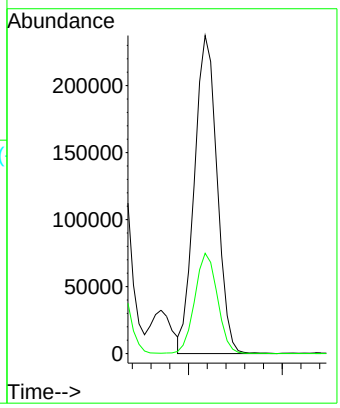
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

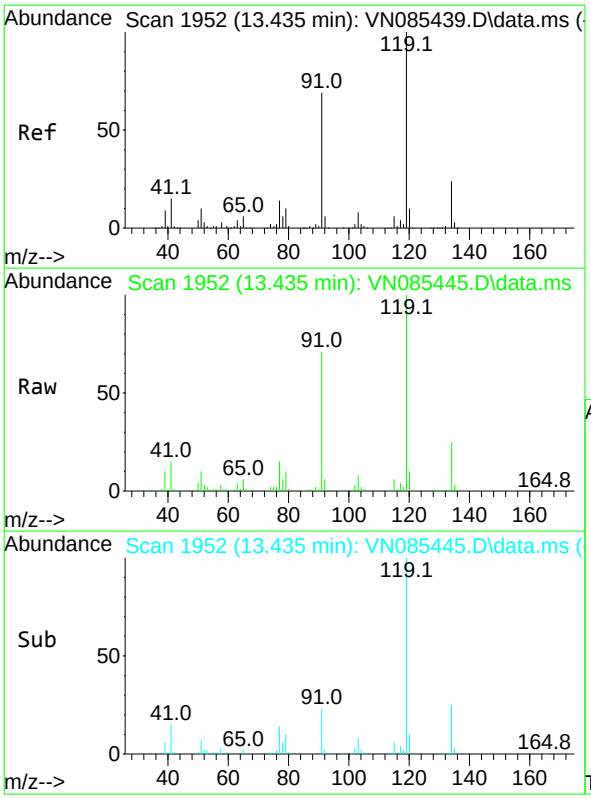


#82
4-Chlorotoluene
Concen: 48.776 ug/l
RT: 13.218 min Scan# 1915
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 91 Resp: 398110

Ion	Ratio	Lower	Upper
91	100		
126	31.6	15.9	47.7

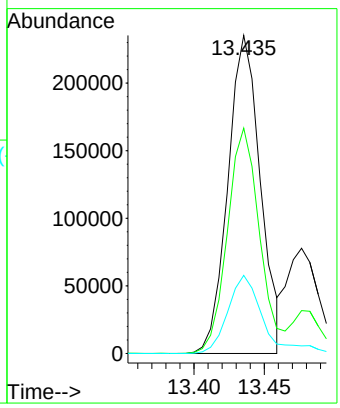




#83
tert-Butylbenzene
Concen: 50.997 ug/l
RT: 13.435 min Scan# 19
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion:119 Resp: 378478

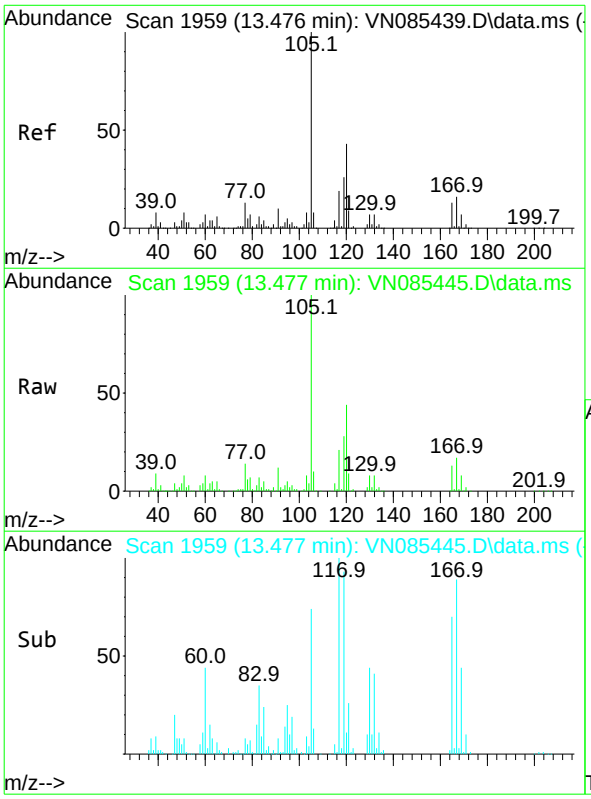
Ion	Ratio	Lower	Upper
119	100		
91	70.6	35.1	105.3
134	26.7	12.0	36.1



Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Manual Integrations APPROVED

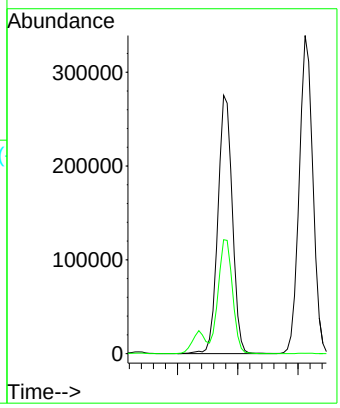
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

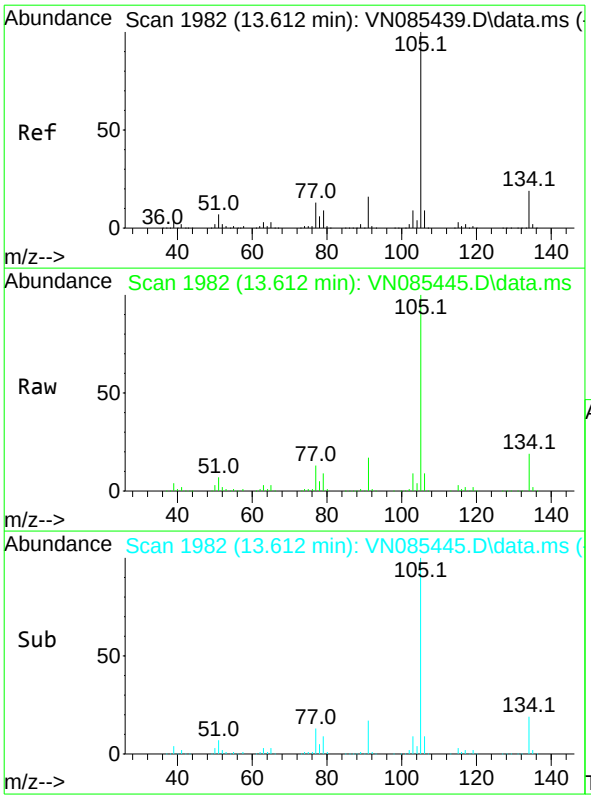


#84
1,2,4-Trimethylbenzene
Concen: 51.922 ug/l
RT: 13.477 min Scan# 1959
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion:105 Resp: 457340

Ion	Ratio	Lower	Upper
105	100		
120	43.6	21.6	65.0

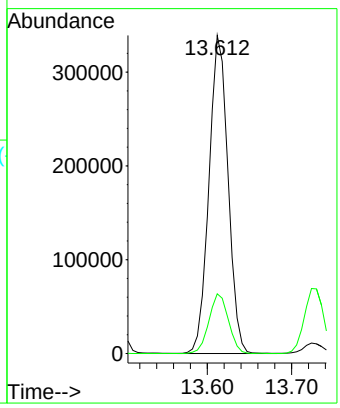




#85
sec-Butylbenzene
Concen: 51.777 ug/l
RT: 13.612 min Scan# 19
Delta R.T. -0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion:105 Resp: 532578

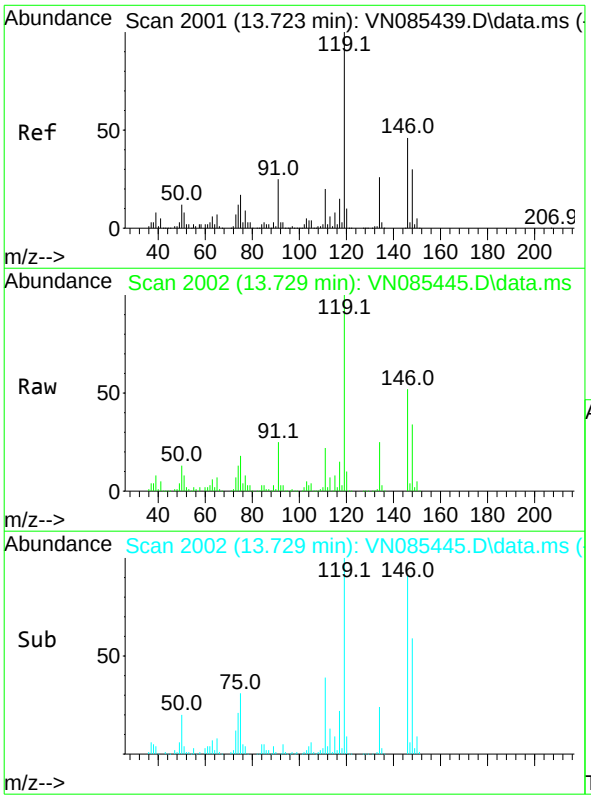
Ion	Ratio	Lower	Upper
105	100		
134	19.2	9.7	28.9



Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Manual Integrations APPROVED

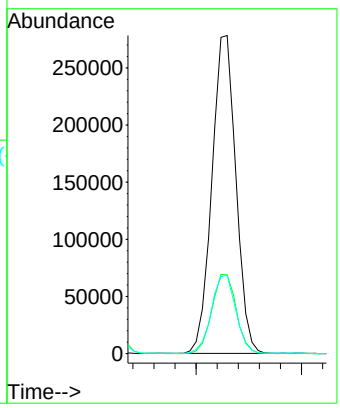
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

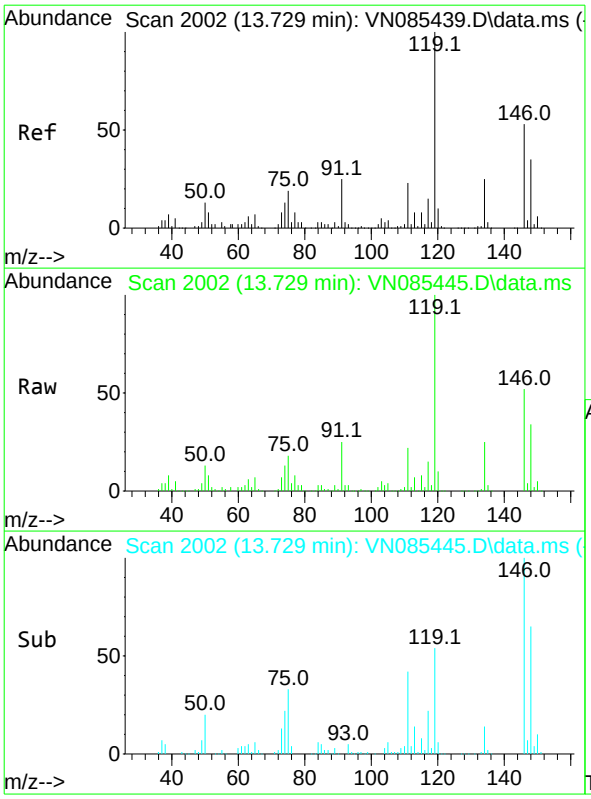


#86
p-Isopropyltoluene
Concen: 47.795 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion:119 Resp: 440284

Ion	Ratio	Lower	Upper
119	100		
134	25.3	12.7	38.0
91	25.0	12.7	38.1

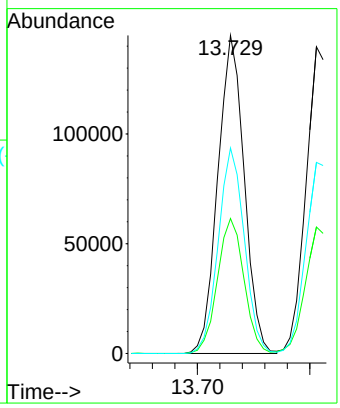




#87
1,3-Dichlorobenzene
Concen: 45.920 ug/l
RT: 13.729 min Scan# 20
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion:146 Resp: 236387

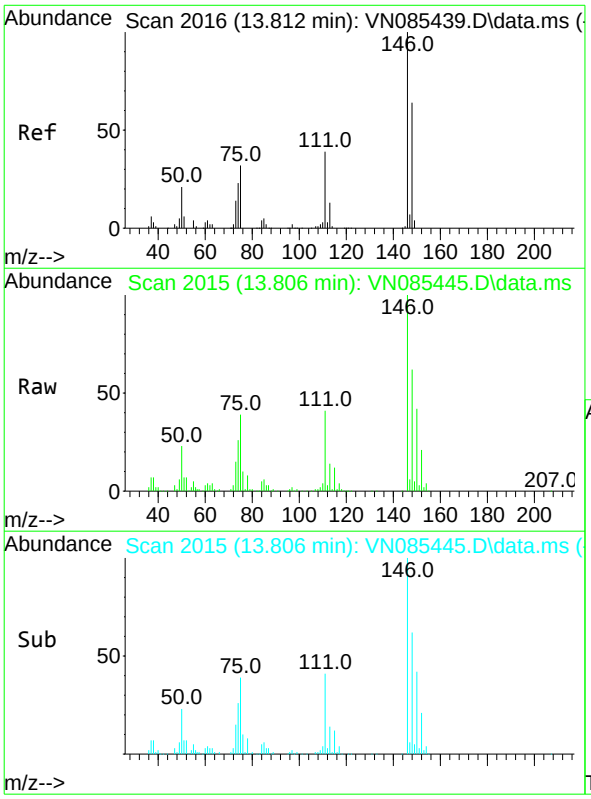
Ion	Ratio	Lower	Upper
146	100		
111	42.6	21.4	64.3
148	63.8	32.3	96.9



Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Manual Integrations APPROVED

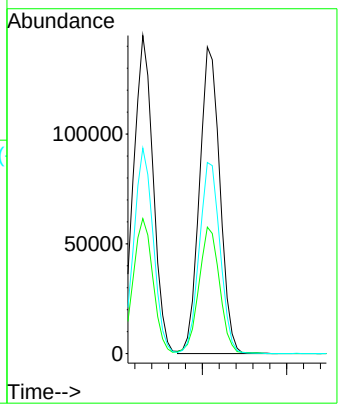
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

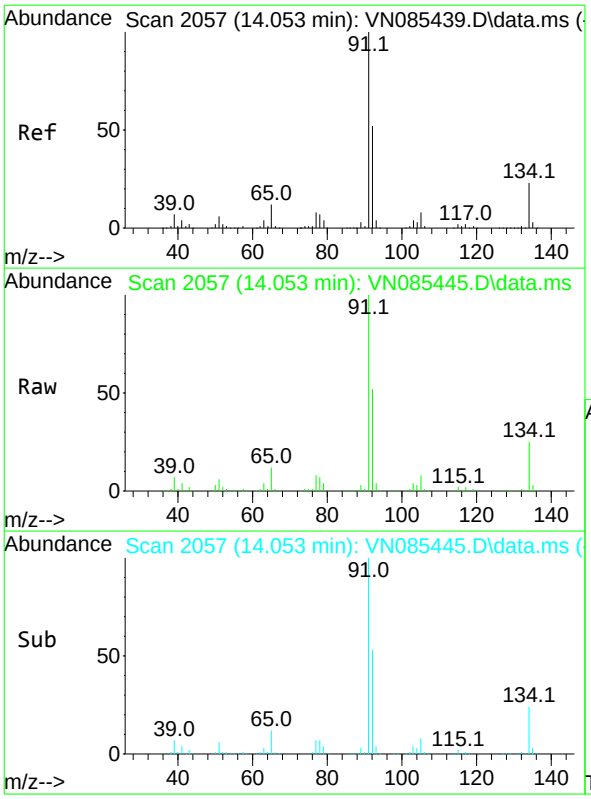


#88
1,4-Dichlorobenzene
Concen: 44.102 ug/l
RT: 13.806 min Scan# 2015
Delta R.T. -0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion:146 Resp: 235319

Ion	Ratio	Lower	Upper
146	100		
111	41.9	21.3	63.7
148	63.5	32.4	97.0

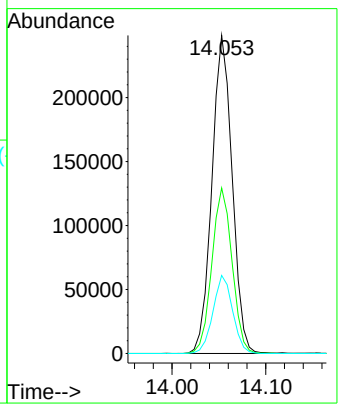




#89
n-Butylbenzene
Concen: 50.578 ug/l
RT: 14.053 min Scan# 20
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 91 Resp: 373227

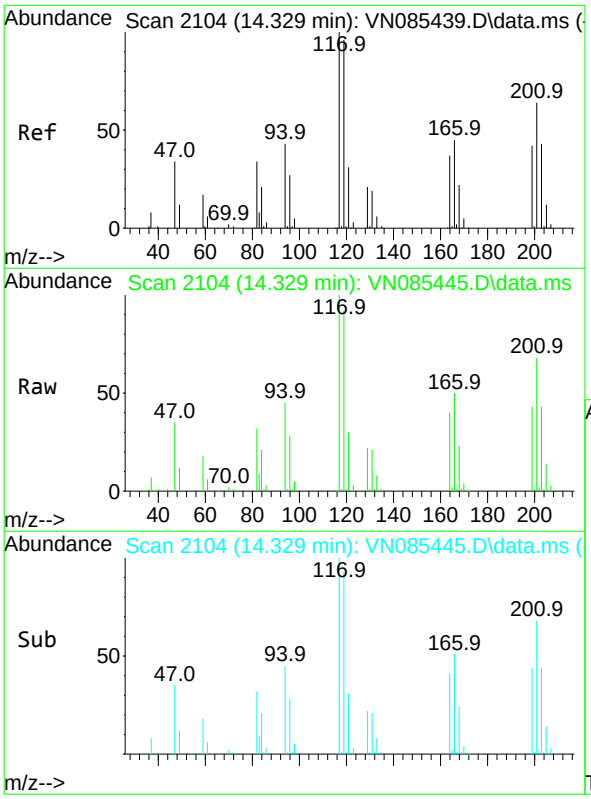
Ion	Ratio	Lower	Upper
91	100		
92	51.9	25.8	77.3
134	23.8	11.7	35.1



Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Manual Integrations APPROVED

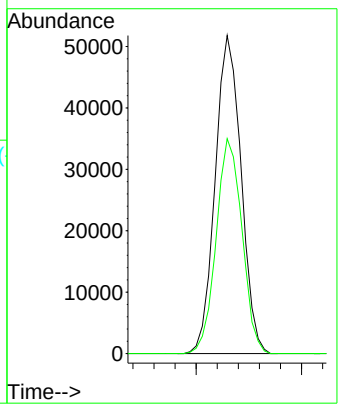
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

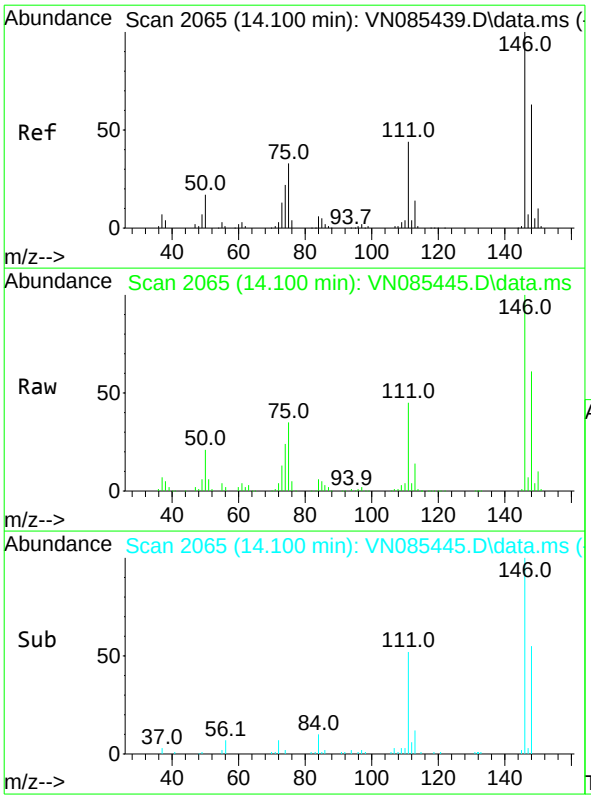


#90
Hexachloroethane
Concen: 45.215 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion:117 Resp: 88538

Ion	Ratio	Lower	Upper
117	100		
201	67.2	33.7	101.0

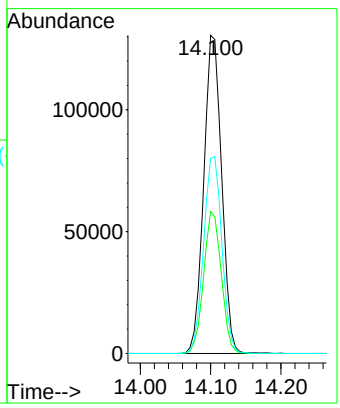




#91
1,2-Dichlorobenzene
Concen: 45.113 ug/l
RT: 14.100 min Scan# 20
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion:146 Resp: 231646

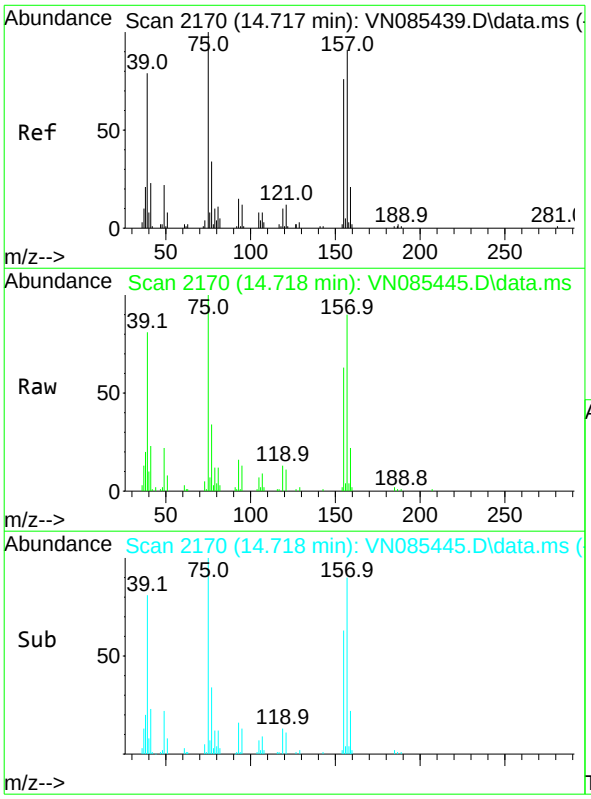
Ion	Ratio	Lower	Upper
146	100		
111	43.9	21.7	65.1
148	63.1	31.4	94.2



Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Manual Integrations
APPROVED

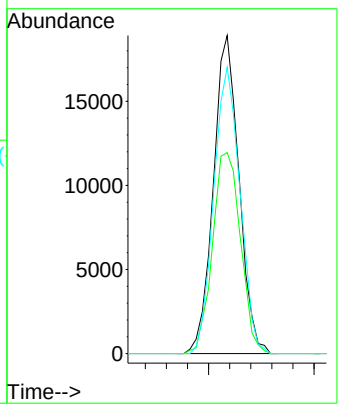
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

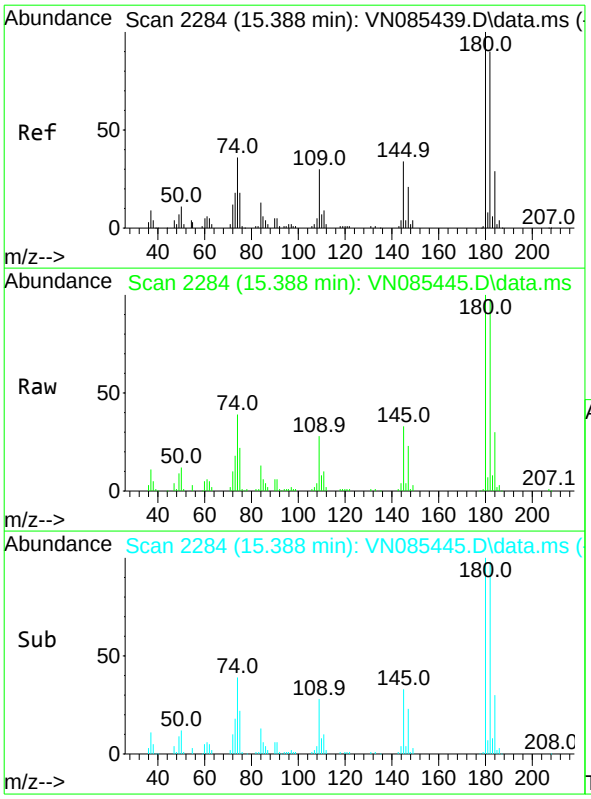


#92
1,2-Dibromo-3-Chloropropane
Concen: 46.221 ug/l
RT: 14.718 min Scan# 2170
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 75 Resp: 31899

Ion	Ratio	Lower	Upper
75	100		
155	69.0	36.4	109.2
157	92.3	45.4	136.1

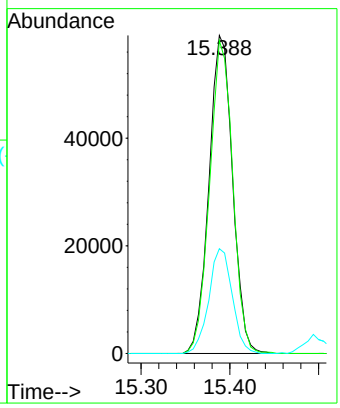




#93
1,2,4-Trichlorobenzene
Concen: 45.739 ug/l
RT: 15.388 min Scan# 22
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion:180 Resp: 109157

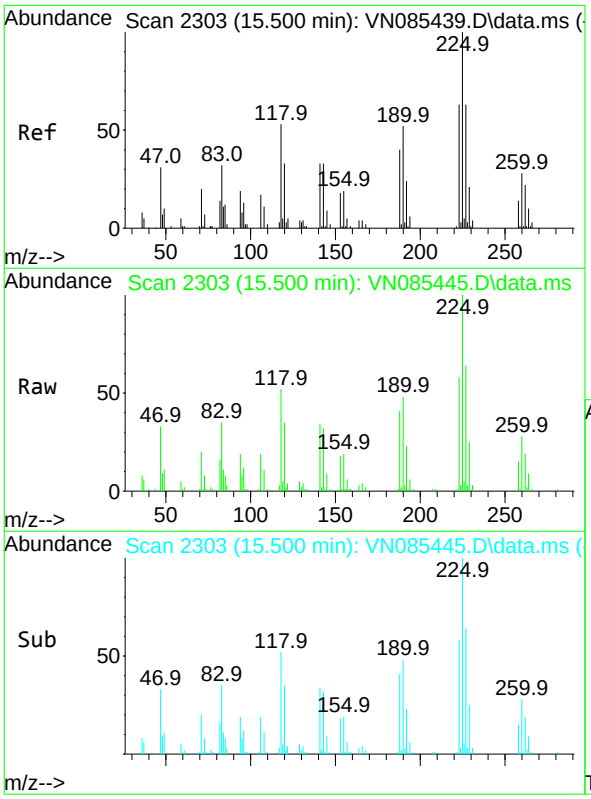
Ion	Ratio	Lower	Upper
180	100		
182	96.3	46.8	140.3
145	32.7	16.0	48.0



Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Manual Integrations APPROVED

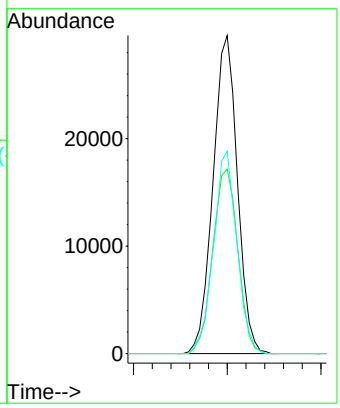
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

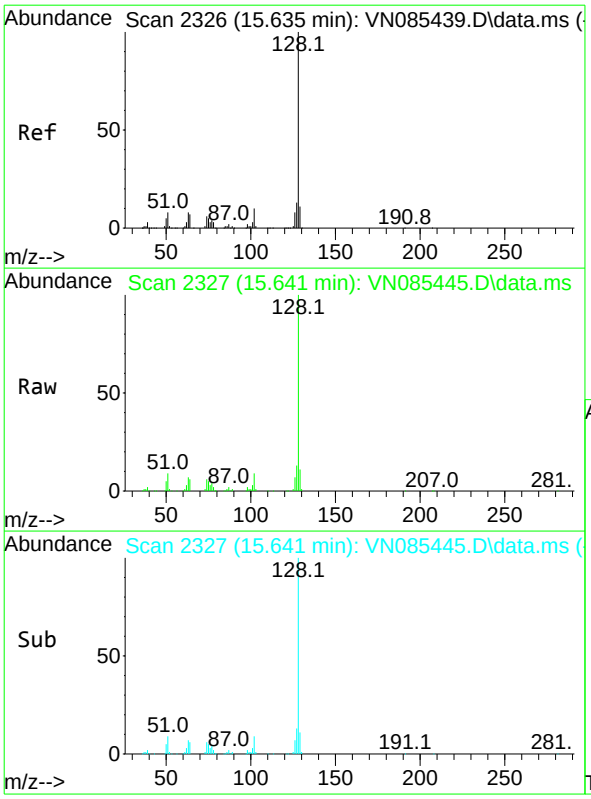


#94
Hexachlorobutadiene
Concen: 42.112 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion:225 Resp: 53358

Ion	Ratio	Lower	Upper
225	100		
223	59.8	30.7	92.1
227	61.2	30.9	92.5

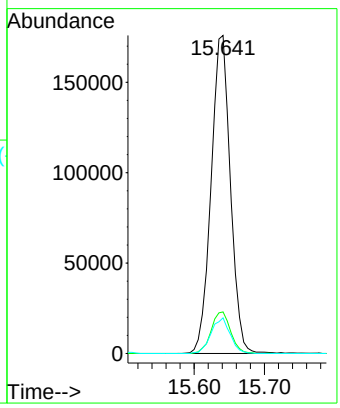




#95
Naphthalene
Concen: 47.116 ug/l
RT: 15.641 min Scan# 23
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion:128 Resp: 335535

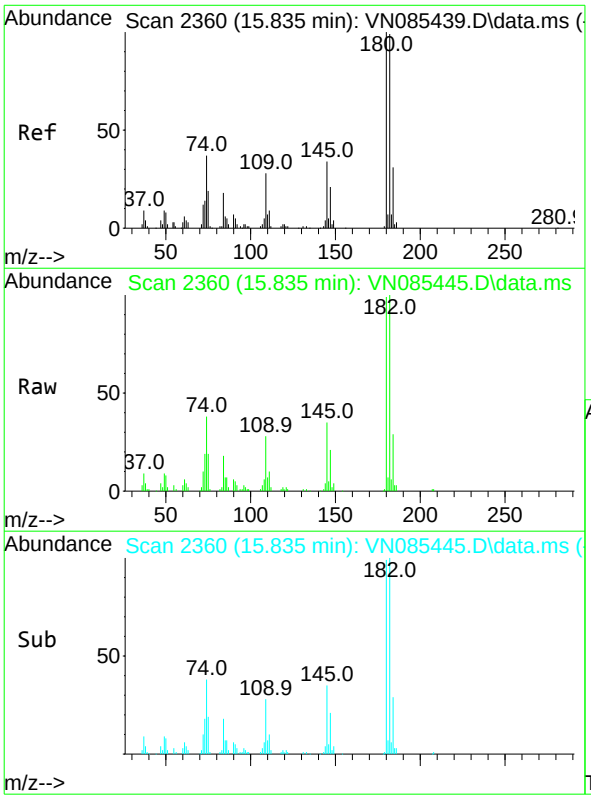
Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.6	16.0
129	11.1	8.8	13.2



Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Manual Integrations APPROVED

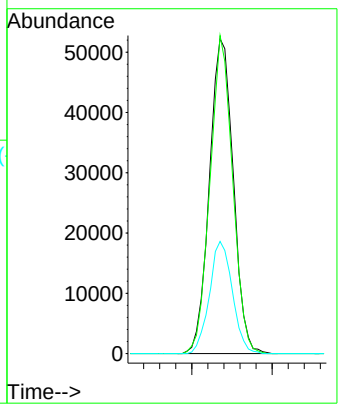
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#96
1,2,3-Trichlorobenzene
Concen: 44.551 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion:180 Resp: 107583

Ion	Ratio	Lower	Upper
180	100		
182	95.6	47.4	142.2
145	34.3	16.9	50.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085445.D
Acq On : 14 Jan 2025 18:06
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Quant Time: Jan 15 02:20:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	110	0.00
2	T	Dichlorodifluoromethane	0.677	0.593	12.4	104	0.00
3	P	Chloromethane	0.733	0.629	14.2	102	0.00
4	C	Vinyl Chloride	0.737	0.629	14.7#	101	0.00
5	T	Bromomethane	0.445	0.364	18.2	96	0.00
6	T	Chloroethane	0.467	0.395	15.4	103	0.00
7	T	Trichlorofluoromethane	1.069	0.940	12.1	104	0.00
8	T	Diethyl Ether	0.369	0.316	14.4	97	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.602	0.538	10.6	109	0.00
10	T	Methyl Iodide	0.690	0.638	7.5	98	0.00
11	T	Tert butyl alcohol	0.092	0.076	17.4	90	0.00
12	CM	1,1-Dichloroethene	0.537	0.486	9.5#	101	0.00
13	T	Acrolein	0.126	0.124	1.6	97	0.00
14	T	Allyl chloride	0.871	0.775	11.0	101	0.00
15	T	Acrylonitrile	0.294	0.268	8.8	99	0.00
16	T	Acetone	0.261	0.223	14.6	98	0.00
17	T	Carbon Disulfide	1.652	1.366	17.3	102	0.00
18	T	Methyl Acetate	0.793	0.714	10.0	100	0.00
19	T	Methyl tert-butyl Ether	1.742	1.665	4.4	98	0.00
20	T	Methylene Chloride	0.646	0.555	14.1	97	0.00
21	T	trans-1,2-Dichloroethene	0.573	0.512	10.6	102	0.00
22	T	Diisopropyl ether	1.933	1.817	6.0	98	0.00
23	T	Vinyl Acetate	1.353	1.339	1.0	99	0.00
24	P	1,1-Dichloroethane	1.178	1.040	11.7	98	0.00
25	T	2-Butanone	0.384	0.351	8.6	99	0.00
26	T	2,2-Dichloropropane	0.953	0.907	4.8	107	0.00
27	T	cis-1,2-Dichloroethene	0.675	0.614	9.0	99	0.00
28	T	Bromochloromethane	0.548	0.484	11.7	98	0.00
29	T	Tetrahydrofuran	0.243	0.233	4.1	98	0.00
30	C	Chloroform	1.218	1.074	11.8#	101	0.00
31	T	Cyclohexane	1.024	0.878	14.3	110	0.00
32	T	1,1,1-Trichloroethane	1.068	0.947	11.3	103	0.00
33	S	1,2-Dichloroethane-d4	0.807	0.804	0.4	107	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	109	0.00
35	S	Dibromofluoromethane	0.347	0.352	-1.4	107	0.00
36	T	1,1-Dichloropropene	0.487	0.437	10.3	103	0.00
37	T	Ethyl Acetate	0.491	0.434	11.6	97	0.00
38	T	Carbon Tetrachloride	0.557	0.496	11.0	102	0.00
39	T	Methylcyclohexane	0.457	0.455	0.4	107	0.00
40	TM	Benzene	1.463	1.336	8.7	100	0.00
41	T	Methacrylonitrile	0.256	0.241	5.9	97	0.00
42	TM	1,2-Dichloroethane	0.551	0.501	9.1	100	0.00
43	T	Isopropyl Acetate	0.787	0.716	9.0	96	0.00
44	TM	Trichloroethene	0.341	0.297	12.9	100	0.00
45	C	1,2-Dichloropropane	0.374	0.334	10.7#	98	0.00
46	T	Dibromomethane	0.270	0.238	11.9	97	0.00
47	T	Bromodichloromethane	0.549	0.502	8.6	98	0.00
48	T	Methyl methacrylate	0.354	0.354	0.0	98	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085445.D
Acq On : 14 Jan 2025 18:06
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Quant Time: Jan 15 02:20:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.006	0.005	16.7	81	0.00
50	S	Toluene-d8	1.232	1.289	-4.6	111	0.00
51	T	4-Methyl-2-Pentanone	0.457	0.449	1.8	99	0.00
52	CM	Toluene	0.848	0.815	3.9#	102	0.00
53	T	t-1,3-Dichloropropene	0.519	0.496	4.4	98	0.00
54	T	cis-1,3-Dichloropropene	0.554	0.530	4.3	98	0.00
55	T	1,1,2-Trichloroethane	0.335	0.310	7.5	99	0.00
56	T	Ethyl methacrylate	0.469	0.492	-4.9	99	0.00
57	T	1,3-Dichloropropane	0.583	0.547	6.2	99	0.00
58	T	2-Chloroethyl Vinyl ether	0.213	0.218	-2.3	99	0.00
59	T	2-Hexanone	0.321	0.323	-0.6	99	0.00
60	T	Dibromochloromethane	0.405	0.372	8.1	98	0.00
61	T	1,2-Dibromoethane	0.334	0.299	10.5	98	0.00
62	S	4-Bromofluorobenzene	0.422	0.446	-5.7	108	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	108	0.00
64	T	Tetrachloroethene	0.341	0.306	10.3	102	0.00
65	PM	Chlorobenzene	1.095	1.006	8.1	101	0.00
66	T	1,1,1,2-Tetrachloroethane	0.402	0.359	10.7	99	0.00
67	C	Ethyl Benzene	1.784	1.798	-0.8#	104	0.00
68	T	m/p-Xylenes	0.659	0.681	-3.3	104	0.00
69	T	o-Xylene	0.630	0.656	-4.1	104	0.00
70	T	Styrene	1.043	1.108	-6.2	102	0.00
71	P	Bromoform	0.288	0.283	1.7	98	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	108	0.00
73	T	Isopropylbenzene	3.375	3.371	0.1	106	0.00
74	T	N-amyl acetate	1.517	1.478	2.6	99	0.00
75	P	1,1,2,2-Tetrachloroethane	1.192	1.040	12.8	98	0.00
76	T	1,2,3-Trichloropropane	1.016	0.851	16.2	103	0.00
77	T	Bromobenzene	0.882	0.814	7.7	103	0.00
78	T	n-propylbenzene	3.995	4.075	-2.0	106	0.00
79	T	2-Chlorotoluene	2.586	2.475	4.3	104	0.00
80	T	1,3,5-Trimethylbenzene	2.787	2.877	-3.2	106	0.00
81	T	trans-1,4-Dichloro-2-butene	0.376	0.370	1.6	103	0.00
82	T	4-Chlorotoluene	2.574	2.511	2.4	105	0.00
83	T	tert-Butylbenzene	2.341	2.387	-2.0	106	0.00
84	T	1,2,4-Trimethylbenzene	2.778	2.885	-3.9	103	0.00
85	T	sec-Butylbenzene	3.244	3.360	-3.6	106	0.00
86	T	p-Isopropyltoluene	2.631	2.777	-5.5	105	0.00
87	T	1,3-Dichlorobenzene	1.624	1.491	8.2	103	0.00
88	T	1,4-Dichlorobenzene	1.683	1.484	11.8	103	0.00
89	T	n-Butylbenzene	2.327	2.354	-1.2	103	0.00
90	T	Hexachloroethane	0.618	0.559	9.5	105	0.00
91	T	1,2-Dichlorobenzene	1.620	1.461	9.8	102	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.218	0.201	7.8	98	0.00
93	T	1,2,4-Trichlorobenzene	0.753	0.689	8.5	95	0.00
94	T	Hexachlorobutadiene	0.400	0.337	15.8	99	0.00
95	T	Naphthalene	2.246	2.117	5.7	92	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085445.D
Acq On : 14 Jan 2025 18:06
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Quant Time: Jan 15 02:20:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.762	0.679	10.9	93	0.00

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085445.D
Acq On : 14 Jan 2025 18:06
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Quant Time: Jan 15 02:20:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	110	0.00
2	T	Dichlorodifluoromethane	50.000	43.772	12.5	104	0.00
3	P	Chloromethane	50.000	42.883	14.2	102	0.00
4	C	Vinyl Chloride	50.000	42.715	14.6#	101	0.00
5	T	Bromomethane	50.000	40.910	18.2	96	0.00
6	T	Chloroethane	50.000	42.299	15.4	103	0.00
7	T	Trichlorofluoromethane	50.000	43.956	12.1	104	0.00
8	T	Diethyl Ether	50.000	42.846	14.3	97	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	44.706	10.6	109	0.00
10	T	Methyl Iodide	50.000	46.259	7.5	98	0.00
11	T	Tert butyl alcohol	250.000	206.633	17.3	90	0.00
12	CM	1,1-Dichloroethene	50.000	45.317	9.4#	101	0.00
13	T	Acrolein	250.000	244.765	2.1	97	0.00
14	T	Allyl chloride	50.000	44.501	11.0	101	0.00
15	T	Acrylonitrile	250.000	227.920	8.8	99	0.00
16	T	Acetone	250.000	213.971	14.4	98	0.00
17	T	Carbon Disulfide	50.000	41.342	17.3	102	0.00
18	T	Methyl Acetate	50.000	45.028	9.9	100	0.00
19	T	Methyl tert-butyl Ether	50.000	47.768	4.5	98	0.00
20	T	Methylene Chloride	50.000	43.017	14.0	97	0.00
21	T	trans-1,2-Dichloroethene	50.000	44.672	10.7	102	0.00
22	T	Diisopropyl ether	50.000	46.996	6.0	98	0.00
23	T	Vinyl Acetate	250.000	247.459	1.0	99	0.00
24	P	1,1-Dichloroethane	50.000	44.114	11.8	98	0.00
25	T	2-Butanone	250.000	228.924	8.4	99	0.00
26	T	2,2-Dichloropropane	50.000	47.593	4.8	107	0.00
27	T	cis-1,2-Dichloroethene	50.000	45.446	9.1	99	0.00
28	T	Bromochloromethane	50.000	44.122	11.8	98	0.00
29	T	Tetrahydrofuran	250.000	239.065	4.4	98	0.00
30	C	Chloroform	50.000	44.071	11.9#	101	0.00
31	T	Cyclohexane	50.000	42.878	14.2	110	0.00
32	T	1,1,1-Trichloroethane	50.000	44.332	11.3	103	0.00
33	S	1,2-Dichloroethane-d4	50.000	49.782	0.4	107	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	109	0.00
35	S	Dibromofluoromethane	50.000	50.768	-1.5	107	0.00
36	T	1,1-Dichloropropene	50.000	44.863	10.3	103	0.00
37	T	Ethyl Acetate	50.000	44.123	11.8	97	0.00
38	T	Carbon Tetrachloride	50.000	44.456	11.1	102	0.00
39	T	Methylcyclohexane	50.000	49.687	0.6	107	0.00
40	TM	Benzene	50.000	45.657	8.7	100	0.00
41	T	Methacrylonitrile	50.000	47.155	5.7	97	0.00
42	TM	1,2-Dichloroethane	50.000	45.481	9.0	100	0.00
43	T	Isopropyl Acetate	50.000	45.440	9.1	96	0.00
44	TM	Trichloroethene	50.000	43.622	12.8	100	0.00
45	C	1,2-Dichloropropane	50.000	44.744	10.5#	98	0.00
46	T	Dibromomethane	50.000	44.214	11.6	97	0.00
47	T	Bromodichloromethane	50.000	45.655	8.7	98	0.00
48	T	Methyl methacrylate	50.000	49.948	0.1	98	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085445.D
Acq On : 14 Jan 2025 18:06
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Quant Time: Jan 15 02:20:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	792.760	20.7	81	0.00
50	S	Toluene-d8	50.000	52.302	-4.6	111	0.00
51	T	4-Methyl-2-Pentanone	250.000	245.877	1.6	99	0.00
52	CM	Toluene	50.000	48.073	3.9#	102	0.00
53	T	t-1,3-Dichloropropene	50.000	47.757	4.5	98	0.00
54	T	cis-1,3-Dichloropropene	50.000	47.783	4.4	98	0.00
55	T	1,1,2-Trichloroethane	50.000	46.173	7.7	99	0.00
56	T	Ethyl methacrylate	50.000	43.762	12.5	99	0.00
57	T	1,3-Dichloropropane	50.000	46.877	6.2	99	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	256.116	-2.4	99	0.00
59	T	2-Hexanone	250.000	251.213	-0.5	99	0.00
60	T	Dibromochloromethane	50.000	45.935	8.1	98	0.00
61	T	1,2-Dibromoethane	50.000	44.837	10.3	98	0.00
62	S	4-Bromofluorobenzene	50.000	52.899	-5.8	108	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	108	0.00
64	T	Tetrachloroethene	50.000	44.886	10.2	102	0.00
65	PM	Chlorobenzene	50.000	45.901	8.2	101	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	44.712	10.6	99	0.00
67	C	Ethyl Benzene	50.000	50.391	-0.8#	104	0.00
68	T	m/p-Xylenes	100.000	103.341	-3.3	104	0.00
69	T	o-Xylene	50.000	52.093	-4.2	104	0.00
70	T	Styrene	50.000	53.103	-6.2	102	0.00
71	P	Bromoform	50.000	49.119	1.8	98	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	108	0.00
73	T	Isopropylbenzene	50.000	49.951	0.1	106	0.00
74	T	N-amyl acetate	50.000	48.730	2.5	99	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	43.627	12.7	98	0.00
76	T	1,2,3-Trichloropropane	50.000	41.891	16.2	103	0.00
77	T	Bromobenzene	50.000	46.138	7.7	103	0.00
78	T	n-propylbenzene	50.000	51.001	-2.0	106	0.00
79	T	2-Chlorotoluene	50.000	47.870	4.3	104	0.00
80	T	1,3,5-Trimethylbenzene	50.000	51.604	-3.2	106	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	49.226	1.5	103	0.00
82	T	4-Chlorotoluene	50.000	48.776	2.4	105	0.00
83	T	tert-Butylbenzene	50.000	50.997	-2.0	106	0.00
84	T	1,2,4-Trimethylbenzene	50.000	51.922	-3.8	103	0.00
85	T	sec-Butylbenzene	50.000	51.777	-3.6	106	0.00
86	T	p-Isopropyltoluene	50.000	47.795	4.4	105	0.00
87	T	1,3-Dichlorobenzene	50.000	45.920	8.2	103	0.00
88	T	1,4-Dichlorobenzene	50.000	44.102	11.8	103	0.00
89	T	n-Butylbenzene	50.000	50.578	-1.2	103	0.00
90	T	Hexachloroethane	50.000	45.215	9.6	105	0.00
91	T	1,2-Dichlorobenzene	50.000	45.113	9.8	102	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	46.221	7.6	98	0.00
93	T	1,2,4-Trichlorobenzene	50.000	45.739	8.5	95	0.00
94	T	Hexachlorobutadiene	50.000	42.112	15.8	99	0.00
95	T	Naphthalene	50.000	47.116	5.8	92	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085445.D
Acq On : 14 Jan 2025 18:06
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Quant Time: Jan 15 02:20:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	44.551	10.9	93	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.: Q1062 SAS No.: Q1062 SDG No.: Q1062

Instrument ID: MSVOA_N Calibration Date/Time: 01/15/2025 09:03

Lab File ID: VN085447.D Init. Calib. Date(s): 01/14/2025 01/14/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 14:56 17:19

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Chloromethane	0.733	0.674	0.1	-8.05	20
Vinyl Chloride	0.737	0.696		-5.56	20
Bromomethane	0.445	0.401		-9.89	20
Chloroethane	0.467	0.426		-8.78	20
Trichlorofluoromethane	1.069	1.042		-2.53	20
1,1,2-Trichlorotrifluoroethane	0.602	0.600		-0.33	20
1,1-Dichloroethene	0.537	0.531		-1.12	20
Acetone	0.261	0.230		-11.88	20
Carbon Disulfide	1.652	1.522		-7.87	20
Methyl tert-butyl Ether	1.742	1.757		0.86	20
Methylene Chloride	0.646	0.605		-6.35	20
trans-1,2-Dichloroethene	0.573	0.562		-1.92	20
1,1-Dichloroethane	1.178	1.146	0.1	-2.72	20
2-Butanone	0.384	0.337		-12.24	20
Carbon Tetrachloride	0.557	0.563		1.08	20
cis-1,2-Dichloroethene	0.675	0.674		-0.15	20
Chloroform	1.218	1.163		-4.52	20
1,1,1-Trichloroethane	1.068	1.035		-3.09	20
Methylcyclohexane	0.457	0.528		15.54	20
Benzene	1.463	1.504		2.8	20
1,2-Dichloroethane	0.551	0.550		-0.18	20
Trichloroethene	0.341	0.345		1.17	20
1,2-Dichloropropane	0.374	0.377		0.8	20
Bromodichloromethane	0.549	0.568		3.46	20
4-Methyl-2-Pentanone	0.457	0.440		-3.72	20
Toluene	0.848	0.916		8.02	20
t-1,3-Dichloropropene	0.519	0.555		6.94	20
cis-1,3-Dichloropropene	0.554	0.594		7.22	20
1,1,2-Trichloroethane	0.335	0.337		0.6	20
2-Hexanone	0.321	0.312		-2.8	20
Dibromochloromethane	0.405	0.408		0.74	20
Tetrachloroethene	0.341	0.355		4.11	20
Chlorobenzene	1.095	1.101	0.3	0.55	20
Ethyl Benzene	1.784	1.967		10.26	20
m/p-Xylenes	0.659	0.755		14.57	20
o-Xylene	0.630	0.699		10.95	20
Styrene	1.043	1.208		15.82	20
Bromoform	0.288	0.302	0.1	4.86	20

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.: Q1062 SAS No.: Q1062 SDG No.: Q1062

Instrument ID: MSVOA_N Calibration Date/Time: 01/15/2025 09:03

Lab File ID: VN085447.D Init. Calib. Date(s): 01/14/2025 01/14/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 14:56 17:19

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Isopropylbenzene	3.375	3.662		8.5	20
1,1,2,2-Tetrachloroethane	1.192	1.047	0.3	-12.16	20
1,3-Dichlorobenzene	1.624	1.628		0.25	20
1,4-Dichlorobenzene	1.683	1.618		-3.86	20
1,2-Dichlorobenzene	1.620	1.533		-5.37	20
1,2-Dichloroethane-d4	0.807	0.819		1.49	20
Dibromofluoromethane	0.347	0.369		6.34	20
Toluene-d8	1.232	1.356		10.06	20
4-Bromofluorobenzene	0.422	0.469		11.14	20

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085447.D
Acq On : 15 Jan 2025 09:03
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 16 00:51:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.218	168	218273	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	358609	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.859	117	316952	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	158347	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	178793	50.745	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 101.480%			
35) Dibromofluoromethane	8.159	113	132381	53.211	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 106.420%			
50) Toluene-d8	10.559	98	486444	55.032	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 110.060%			
62) 4-Bromofluorobenzene	12.847	95	168340	55.673	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 111.340%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	143408	48.525	ug/l	99
3) Chloromethane	2.359	50	147166	45.992	ug/l	98
4) Vinyl Chloride	2.518	62	151933	47.239	ug/l	99
5) Bromomethane	2.959	94	87556	45.067	ug/l	97
6) Chloroethane	3.124	64	93081	45.648	ug/l	95
7) Trichlorofluoromethane	3.500	101	227366	48.720	ug/l	100
8) Diethyl Ether	3.959	74	73785	45.767	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.371	101	130921	49.808	ug/l	99
10) Methyl Iodide	4.589	142	149033	49.511	ug/l	98
11) Tert butyl alcohol	5.506	59	74825	185.463	ug/l	100
12) 1,1-Dichloroethene	4.336	96	115861	49.459	ug/l	99
13) Acrolein	4.177	56	131470	238.713	ug/l	99
14) Allyl chloride	5.018	41	181372	47.714	ug/l	99
15) Acrylonitrile	5.712	53	284008	221.624	ug/l	99
16) Acetone	4.418	43	250548	220.081	ug/l	100
17) Carbon Disulfide	4.712	76	332259	46.066	ug/l	99
18) Methyl Acetate	5.018	43	152823	44.146	ug/l	99
19) Methyl tert-butyl Ether	5.789	73	383442	50.410	ug/l	98
20) Methylene Chloride	5.271	84	132073	46.863	ug/l	97
21) trans-1,2-Dichloroethene	5.789	96	122694	49.008	ug/l	99
22) Diisopropyl ether	6.665	45	429155	50.865	ug/l	99
23) Vinyl Acetate	6.594	43	1530873	259.270	ug/l	99
24) 1,1-Dichloroethane	6.565	63	250056	48.606	ug/l	99
25) 2-Butanone	7.477	43	367726	219.497	ug/l	98
26) 2,2-Dichloropropane	7.483	77	224423	53.956	ug/l	100
27) cis-1,2-Dichloroethene	7.483	96	147121	49.893	ug/l	100
28) Bromochloromethane	7.806	49	117821	49.226	ug/l	99
29) Tetrahydrofuran	7.830	42	245371	231.013	ug/l	99
30) Chloroform	7.959	83	253854	47.743	ug/l	99
31) Cyclohexane	8.253	56	205522	45.962	ug/l	96
32) 1,1,1-Trichloroethane	8.165	97	225987	48.453	ug/l	99
36) 1,1-Dichloropropene	8.365	75	180278	51.631	ug/l	99
37) Ethyl Acetate	7.553	43	157899	44.802	ug/l	97
38) Carbon Tetrachloride	8.359	117	201730	50.466	ug/l	99
39) Methylcyclohexane	9.594	83	189425	57.732	ug/l	98
40) Benzene	8.600	78	539436	51.417	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085447.D
Acq On : 15 Jan 2025 09:03
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 16 00:51:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.771	41	90556	49.387	ug/l		98
42) 1,2-Dichloroethane	8.665	62	197097	49.881	ug/l		99
43) Isopropyl Acetate	8.682	43	266284	47.153	ug/l		99
44) Trichloroethene	9.347	130	123817	50.700	ug/l		97
45) 1,2-Dichloropropane	9.612	63	135244	50.468	ug/l		96
46) Dibromomethane	9.706	93	94501	48.873	ug/l		98
47) Bromodichloromethane	9.882	83	203552	51.671	ug/l		99
48) Methyl methacrylate	9.677	41	129471	50.945	ug/l		98
49) 1,4-Dioxane	9.688	88	37393	873.742	ug/l		98
51) 4-Methyl-2-Pentanone	10.441	43	789380	240.885	ug/l		99
52) Toluene	10.624	92	328434	54.029	ug/l		100
53) t-1,3-Dichloropropene	10.829	75	198974	53.447	ug/l		95
54) cis-1,3-Dichloropropene	10.306	75	213072	53.582	ug/l		98
55) 1,1,2-Trichloroethane	11.012	97	120803	50.215	ug/l		99
56) Ethyl methacrylate	10.871	69	184561	45.714	ug/l		99
57) 1,3-Dichloropropane	11.159	76	211921	50.662	ug/l		98
58) 2-Chloroethyl Vinyl ether	10.153	63	416723	272.966	ug/l		100
59) 2-Hexanone	11.188	43	558711	242.307	ug/l		100
60) Dibromochloromethane	11.353	129	146358	50.392	ug/l		99
61) 1,2-Dibromoethane	11.465	107	117431	49.039	ug/l		99
64) Tetrachloroethene	11.100	164	112592	52.107	ug/l		96
65) Chlorobenzene	11.888	112	348954	50.257	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.953	131	126127	49.494	ug/l		99
67) Ethyl Benzene	11.959	91	623373	55.122	ug/l		98
68) m/p-Xylenes	12.065	106	478857	114.570	ug/l		98
69) o-Xylene	12.394	106	221609	55.481	ug/l		98
70) Styrene	12.406	104	382963	57.933	ug/l		100
71) Bromoform	12.570	173	95715	52.493	ug/l	#	97
73) Isopropylbenzene	12.688	105	579887	54.261	ug/l		100
74) N-amyl acetate	12.488	43	229808	47.841	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.935	83	165720	43.898	ug/l		99
76) 1,2,3-Trichloropropane	12.988	75	150178m	46.662	ug/l		
77) Bromobenzene	12.976	156	137136	49.115	ug/l		96
78) n-propylbenzene	13.029	91	703936	55.640	ug/l		100
79) 2-Chlorotoluene	13.123	91	423036	51.665	ug/l		99
80) 1,3,5-Trimethylbenzene	13.170	105	492256	55.763	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.729	75	58114	48.853	ug/l		92
82) 4-Chlorotoluene	13.217	91	425288	52.164	ug/l		100
83) tert-Butylbenzene	13.435	119	405351	54.680	ug/l		99
84) 1,2,4-Trimethylbenzene	13.476	105	498787	56.692	ug/l		97
85) sec-Butylbenzene	13.612	105	580478	56.497	ug/l		99
86) p-Isopropyltoluene	13.723	119	492423	52.852	ug/l		99
87) 1,3-Dichlorobenzene	13.729	146	257806	50.137	ug/l		99
88) 1,4-Dichlorobenzene	13.806	146	256221	48.073	ug/l		99
89) n-Butylbenzene	14.053	91	424966	57.654	ug/l		98
90) Hexachloroethane	14.329	117	95205	48.675	ug/l		99
91) 1,2-Dichlorobenzene	14.100	146	242707	47.320	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	29578	42.906	ug/l		98
93) 1,2,4-Trichlorobenzene	15.388	180	120596	50.589	ug/l		98
94) Hexachlorobutadiene	15.494	225	60079	47.470	ug/l		97
95) Naphthalene	15.635	128	327305	46.012	ug/l		100
96) 1,2,3-Trichlorobenzene	15.835	180	113937	47.236	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085447.D
Acq On : 15 Jan 2025 09:03
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 16 00:51:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

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

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

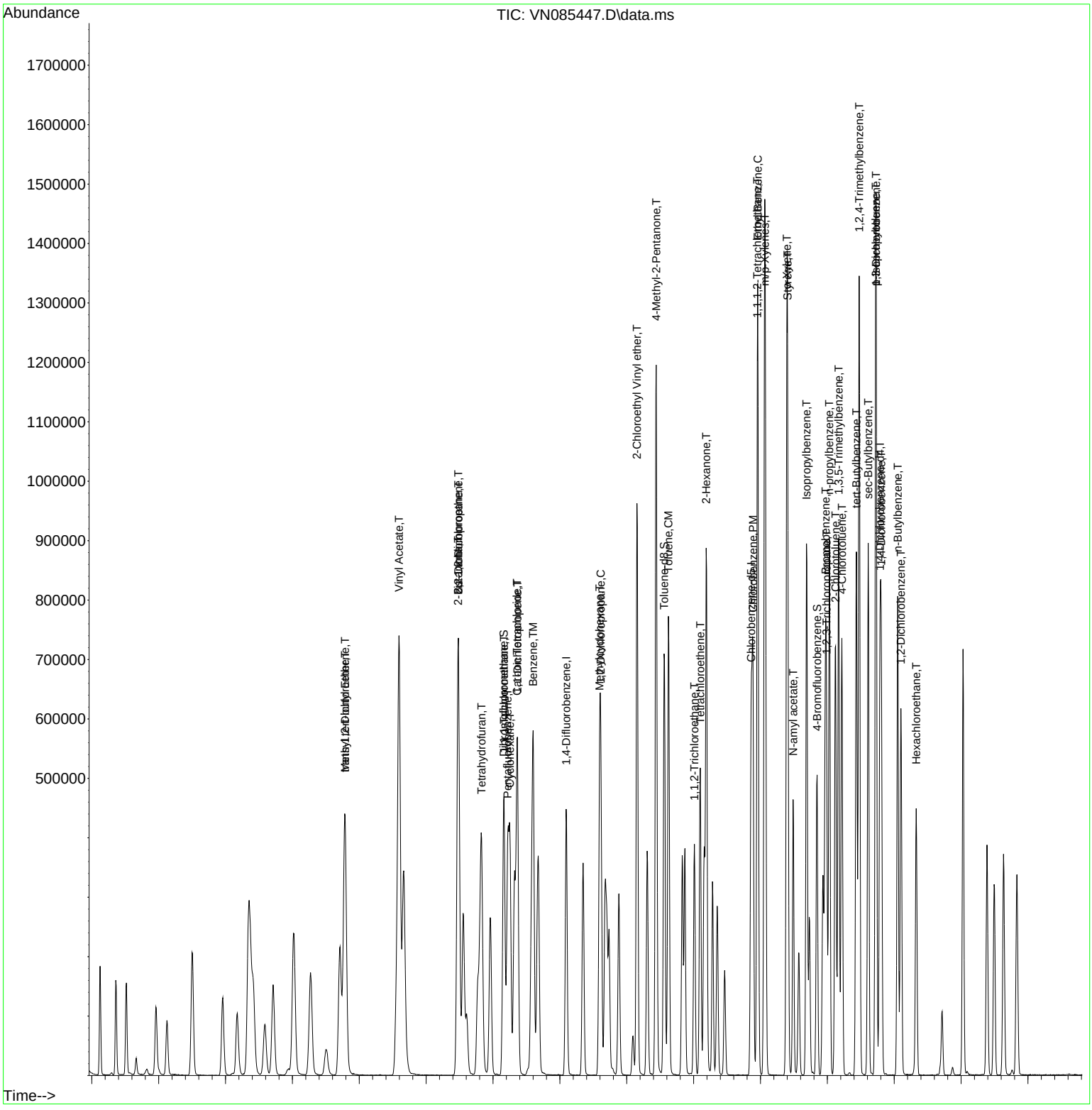
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085447.D
Acq On : 15 Jan 2025 09:03
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

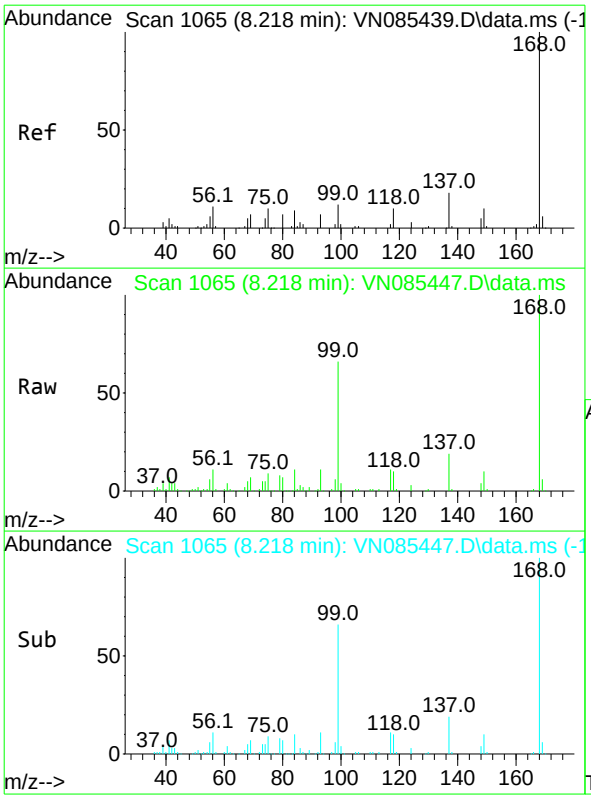
Quant Time: Jan 16 00:51:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

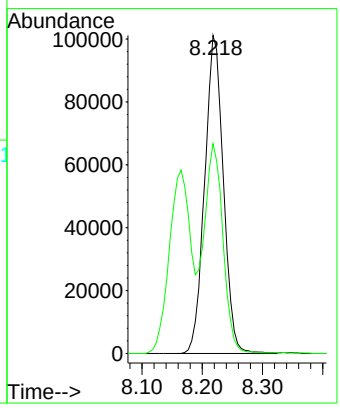




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion:168 Resp: 218273

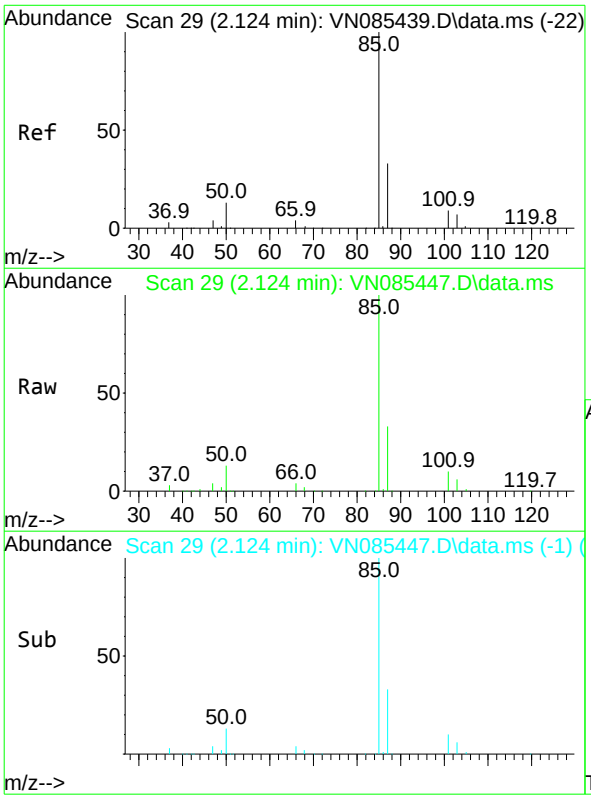
Ion	Ratio	Lower	Upper
168	100		
99	65.7	53.6	80.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

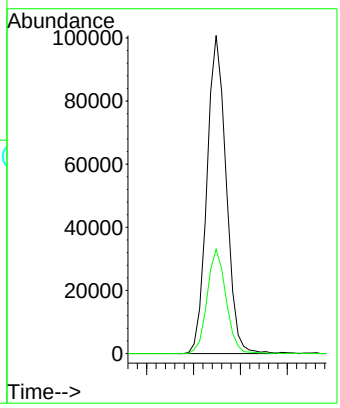
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

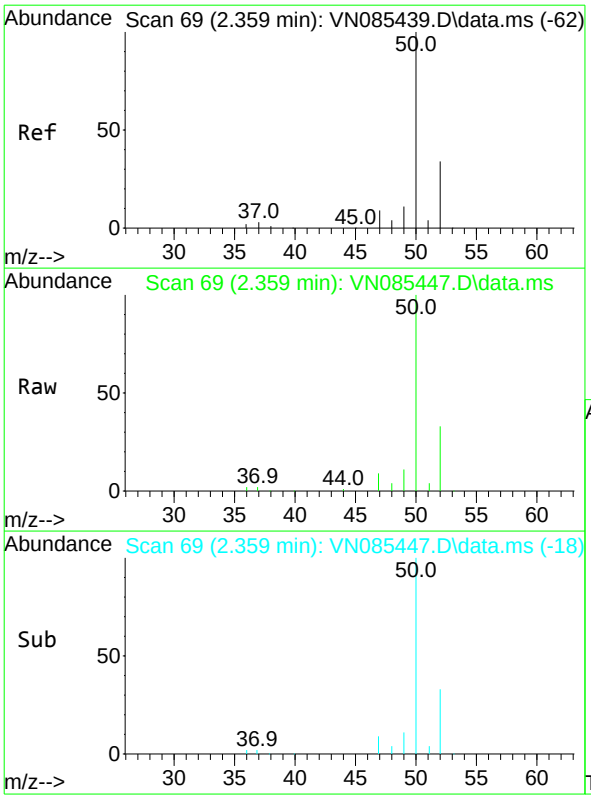


#2
Dichlorodifluoromethane
Concen: 48.525 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 85 Resp: 143408

Ion	Ratio	Lower	Upper
85	100		
87	32.8	16.7	50.1

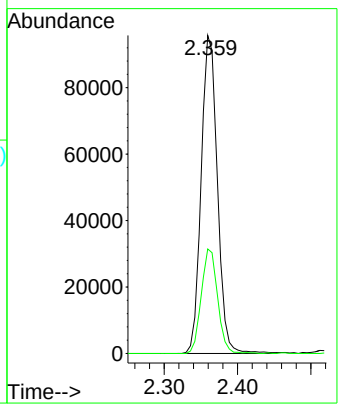




#3
Chloromethane
Concen: 45.992 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 50 Resp: 147166

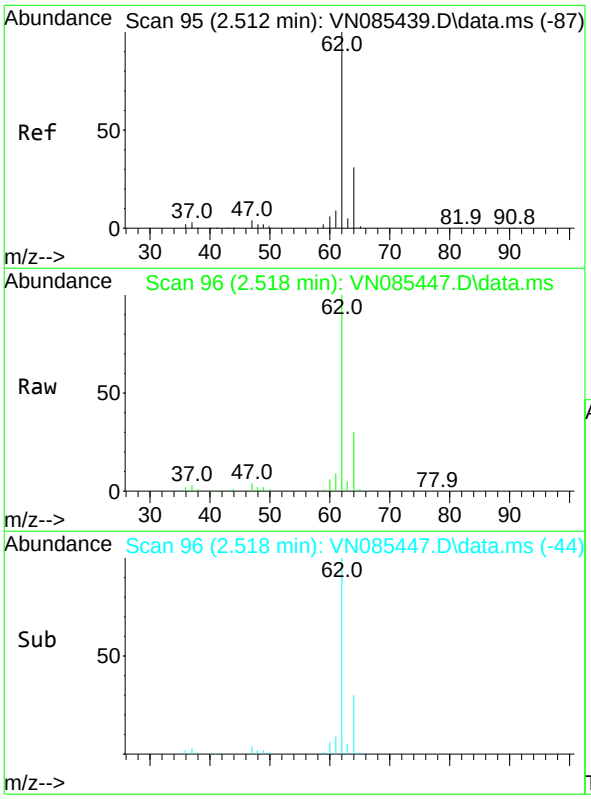
Ion	Ratio	Lower	Upper
50	100		
52	32.9	27.0	40.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

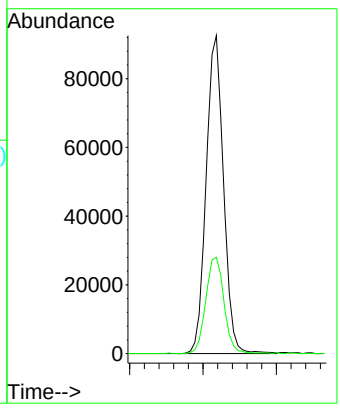
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

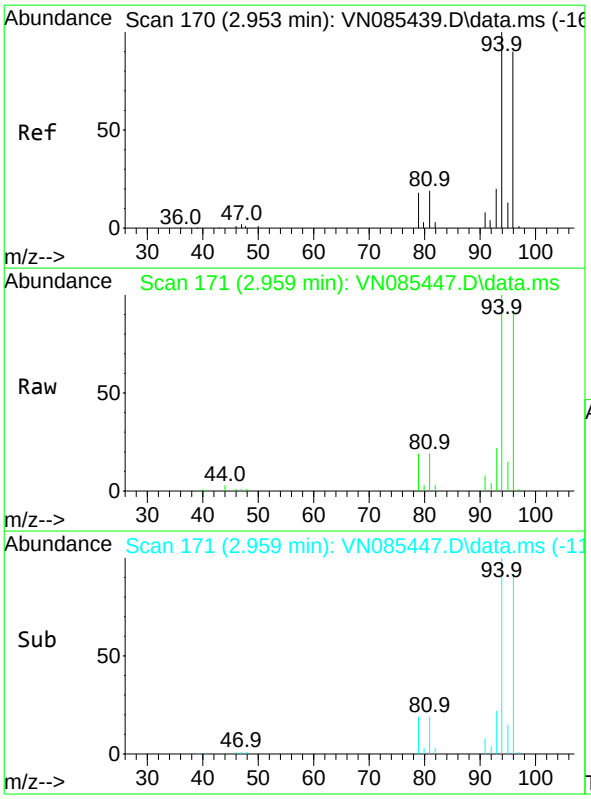


#4
Vinyl Chloride
Concen: 47.239 ug/l
RT: 2.518 min Scan# 96
Delta R.T. 0.006 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 62 Resp: 151933

Ion	Ratio	Lower	Upper
62	100		
64	30.3	24.8	37.2

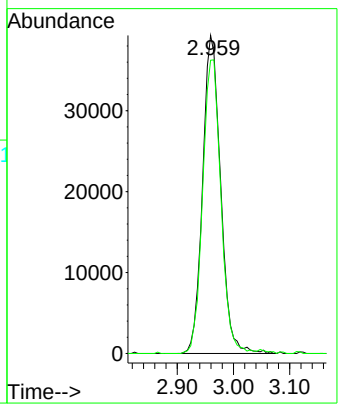




#5
Bromomethane
Concen: 45.067 ug/l
RT: 2.959 min Scan# 17
Delta R.T. 0.006 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 94 Resp: 87556

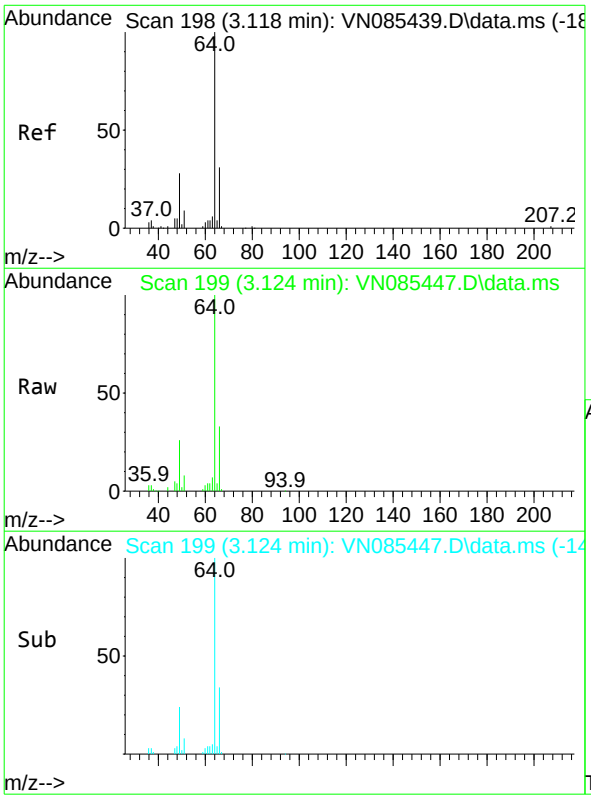
Ion	Ratio	Lower	Upper
94	100		
96	92.2	71.8	107.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

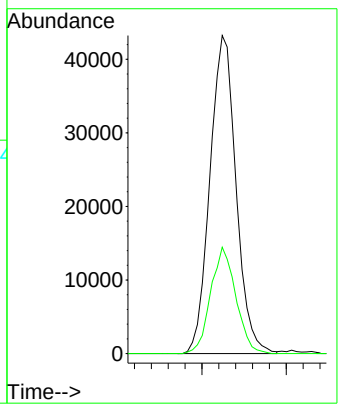
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

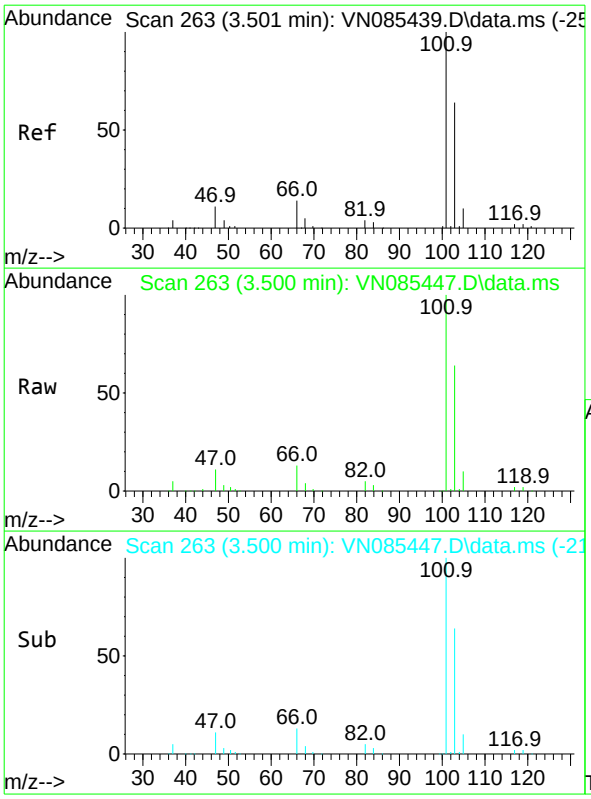


#6
Chloroethane
Concen: 45.648 ug/l
RT: 3.124 min Scan# 199
Delta R.T. 0.006 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 64 Resp: 93081

Ion	Ratio	Lower	Upper
64	100		
66	33.5	24.6	36.8

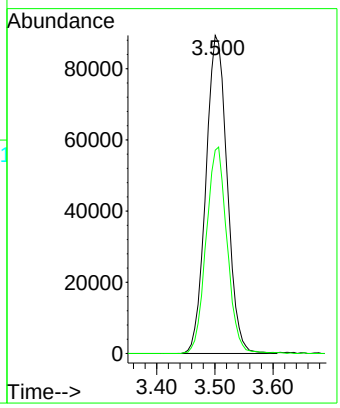




#7
Trichlorofluoromethane
Concen: 48.720 ug/l
RT: 3.500 min Scan# 26
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion:101 Resp: 227366

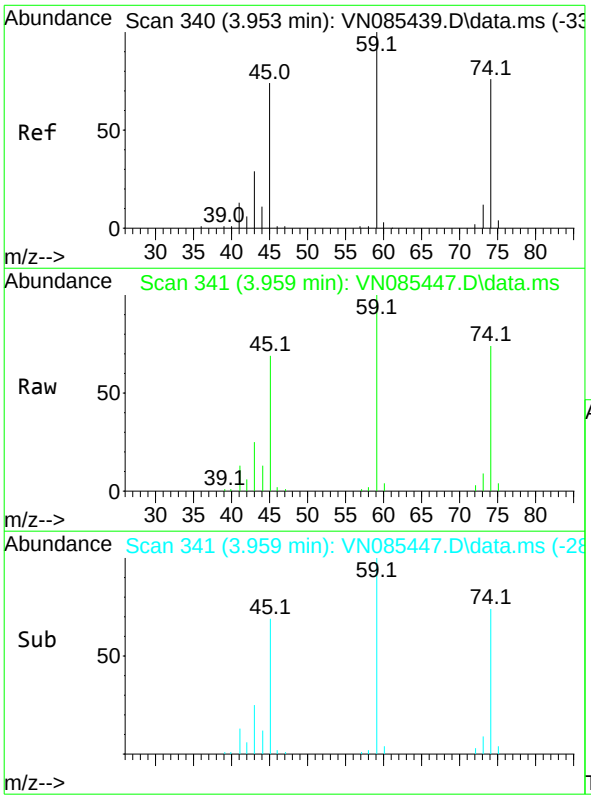
Ion	Ratio	Lower	Upper
101	100		
103	63.9	51.4	77.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

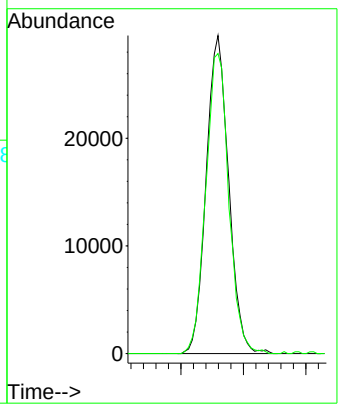
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

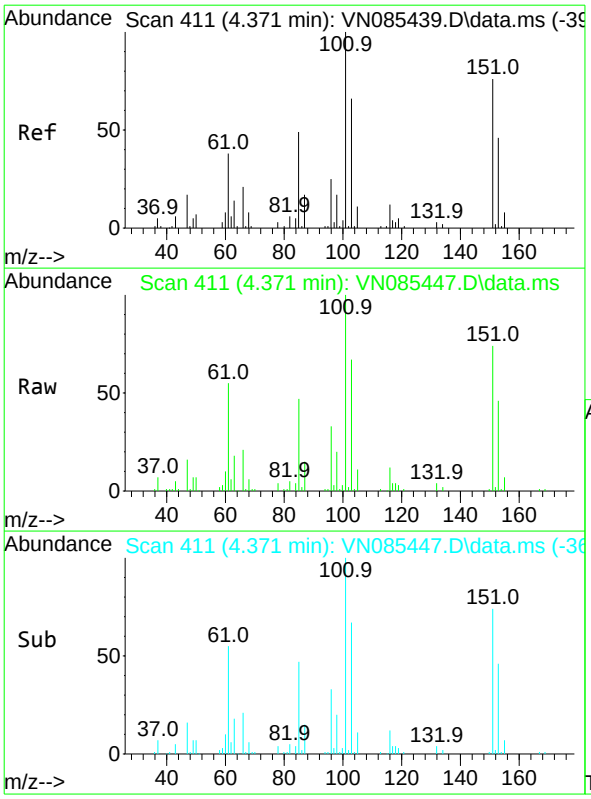


#8
Diethyl Ether
Concen: 45.767 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.006 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 74 Resp: 73785

Ion	Ratio	Lower	Upper
74	100		
45	96.7	49.7	149.1





#9
1,1,2-Trichlorotrifluoroethane
Concen: 49.808 ug/l
RT: 4.371 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

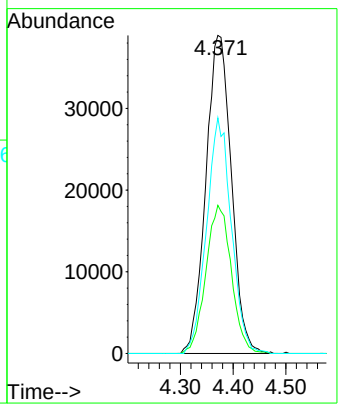
Tgt Ion:101 Resp: 130921

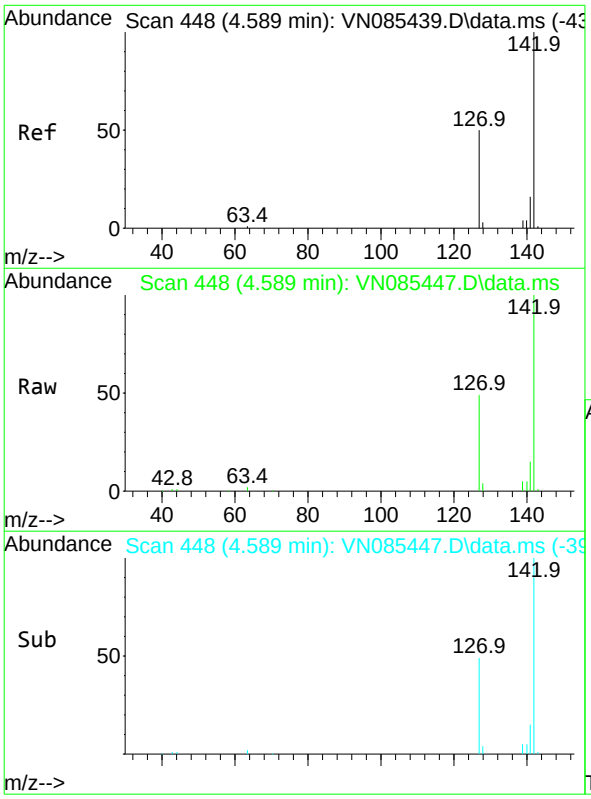
Ion	Ratio	Lower	Upper
101	100		
85	46.6	37.8	56.8
151	72.0	58.8	88.2

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

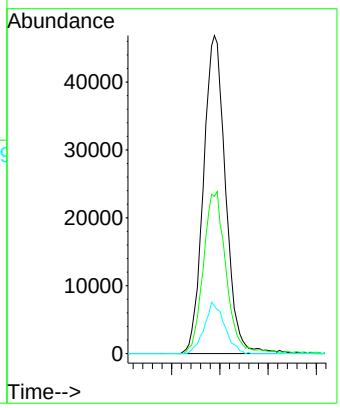


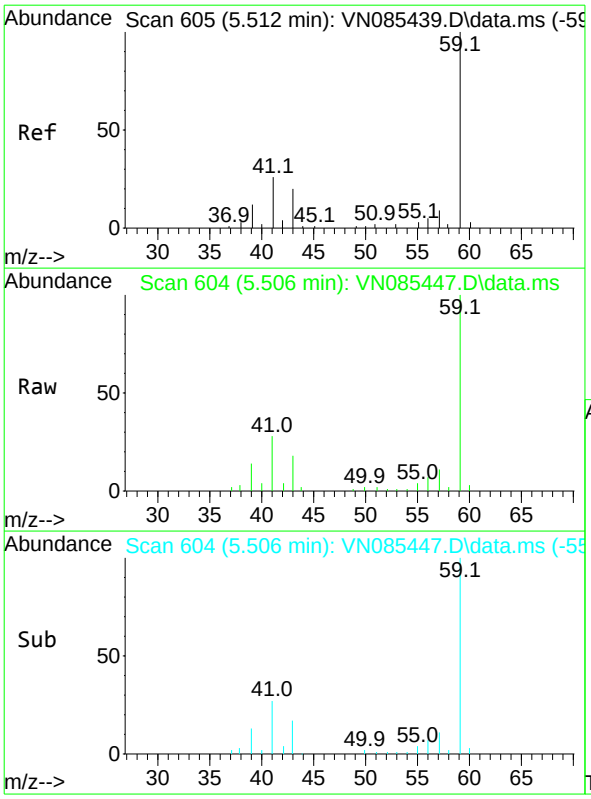


#10
Methyl Iodide
Concen: 49.511 ug/l
RT: 4.589 min Scan# 448
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion:142 Resp: 149033

Ion	Ratio	Lower	Upper
142	100		
127	49.4	40.3	60.5
141	15.0	12.8	19.2

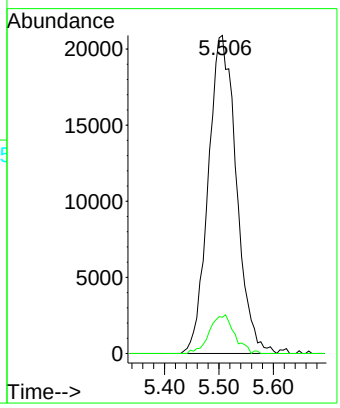




#11
Tert butyl alcohol
Concen: 185.463 ug/l
RT: 5.506 min Scan# 60
Delta R.T. -0.006 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 59 Resp: 74825

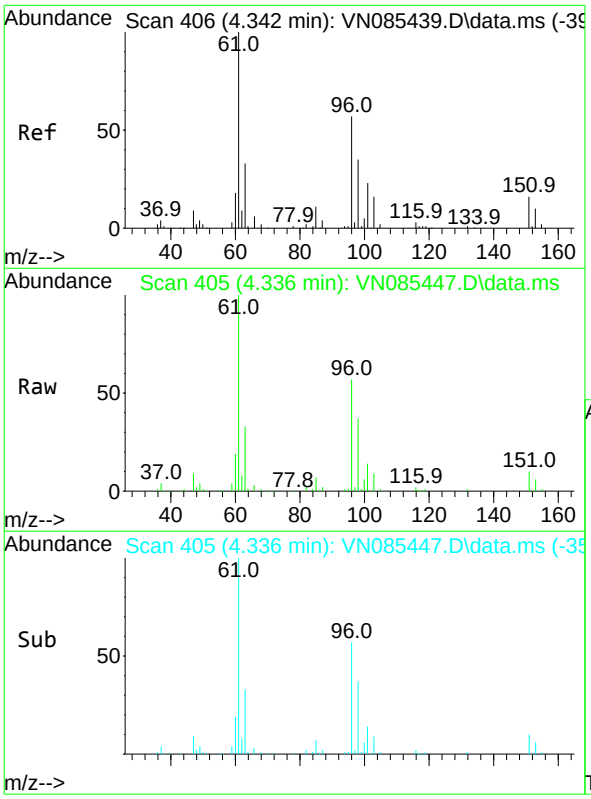
Ion	Ratio	Lower	Upper
59	100		
57	10.9	8.6	13.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

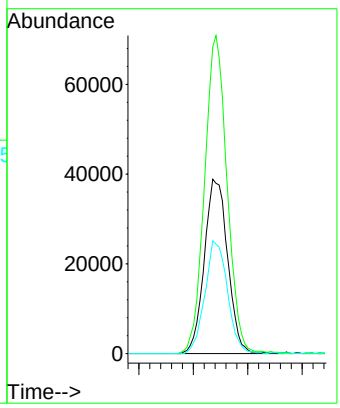
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

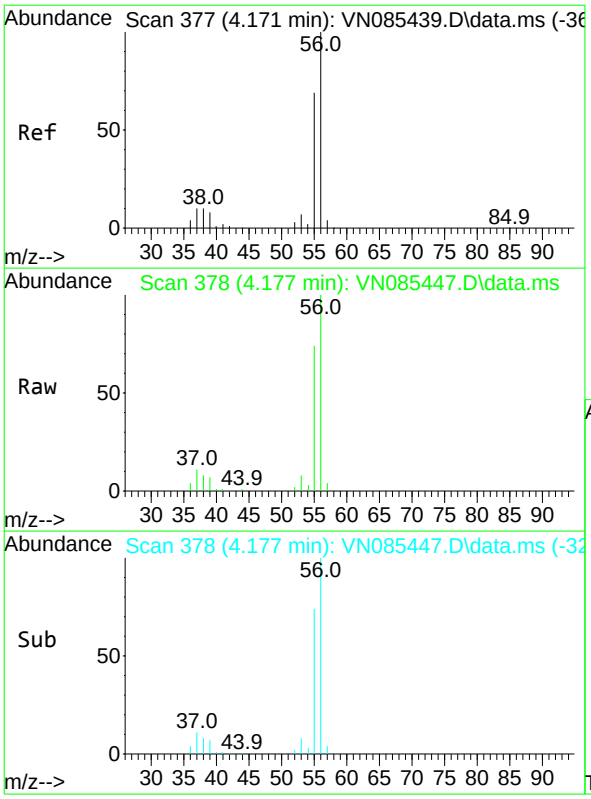


#12
1,1-Dichloroethene
Concen: 49.459 ug/l
RT: 4.336 min Scan# 405
Delta R.T. -0.006 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 96 Resp: 115861

Ion	Ratio	Lower	Upper
96	100		
61	176.0	141.0	211.4
98	64.8	49.0	73.6

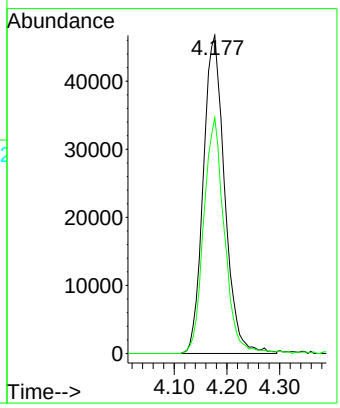




#13
Acrolein
Concen: 238.713 ug/l
RT: 4.177 min Scan# 37
Delta R.T. 0.006 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 56 Resp: 131470

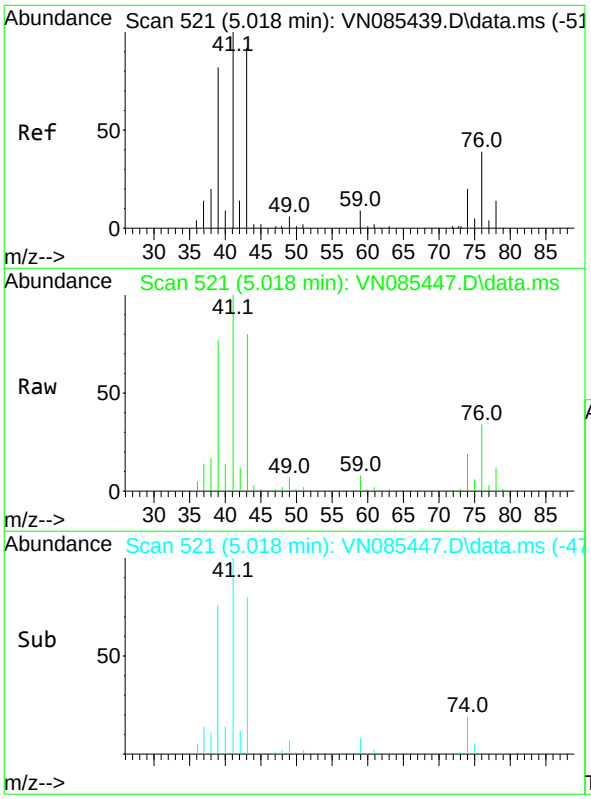
Ion	Ratio	Lower	Upper
56	100		
55	71.5	56.3	84.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

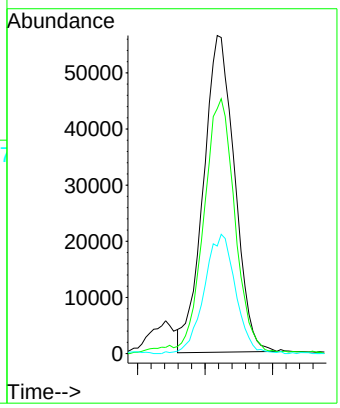
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

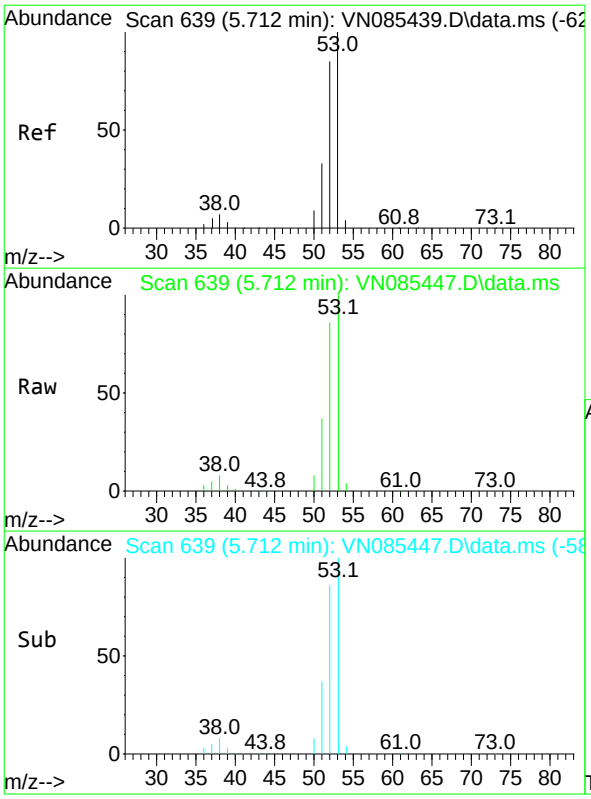


#14
Allyl chloride
Concen: 47.714 ug/l
RT: 5.018 min Scan# 521
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 41 Resp: 181372

Ion	Ratio	Lower	Upper
41	100		
39	81.7	64.4	96.6
76	37.8	30.5	45.7

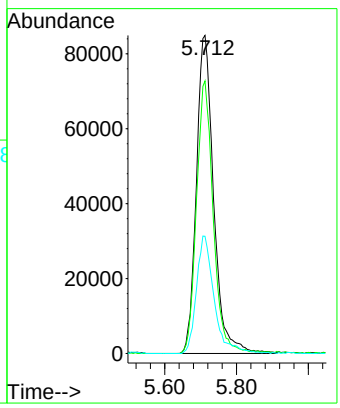




#15
Acrylonitrile
Concen: 221.624 ug/l
RT: 5.712 min Scan# 63
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 53 Resp: 284008

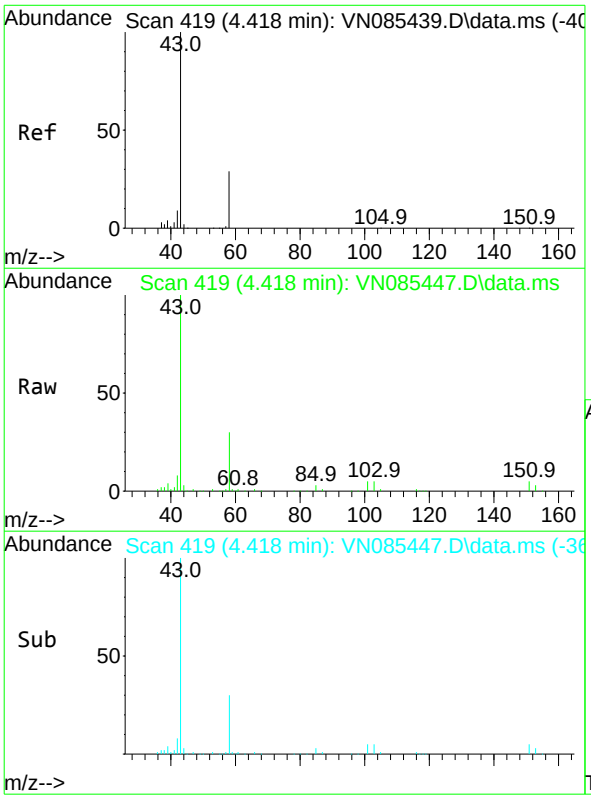
Ion	Ratio	Lower	Upper
53	100		
52	82.6	65.5	98.3
51	37.8	29.8	44.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

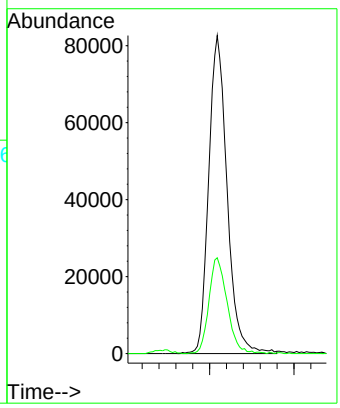
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

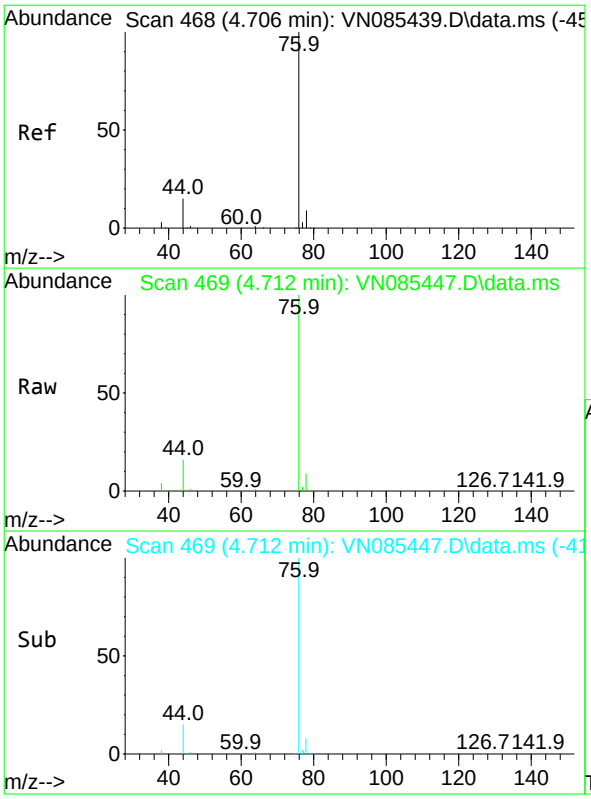


#16
Acetone
Concen: 220.081 ug/l
RT: 4.418 min Scan# 419
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 43 Resp: 250548

Ion	Ratio	Lower	Upper
43	100		
58	29.9	23.8	35.6

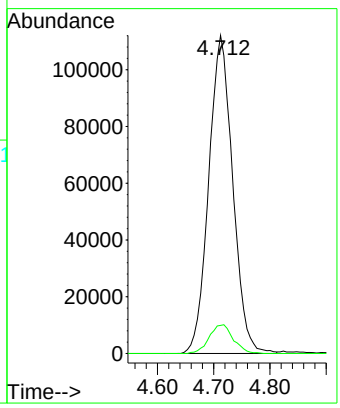




#17
Carbon Disulfide
Concen: 46.066 ug/l
RT: 4.712 min Scan# 46
Delta R.T. 0.006 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 76 Resp: 332259

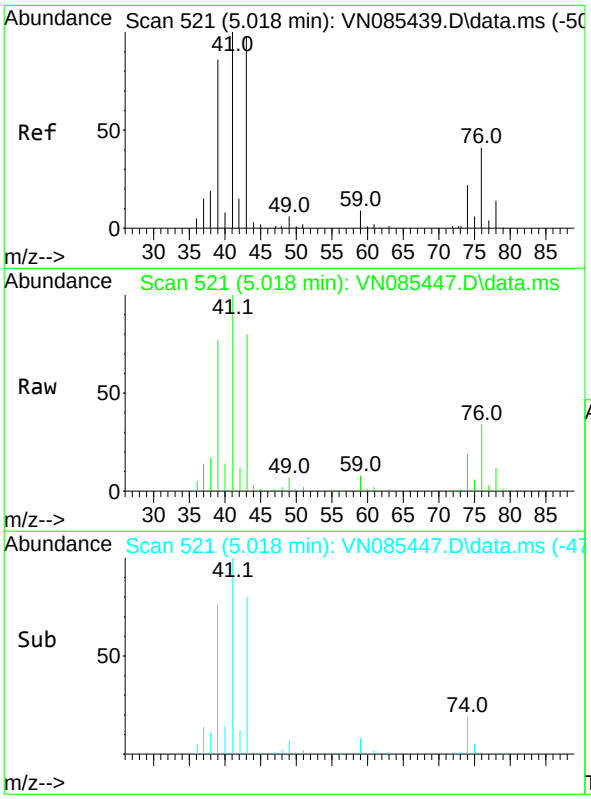
Ion	Ratio	Lower	Upper
76	100		
78	8.8	6.9	10.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

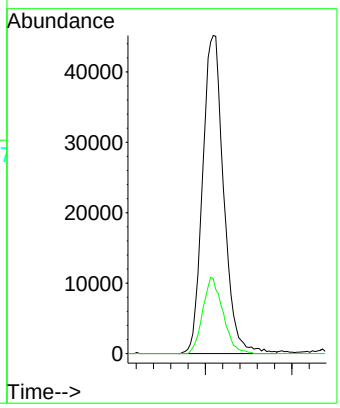
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

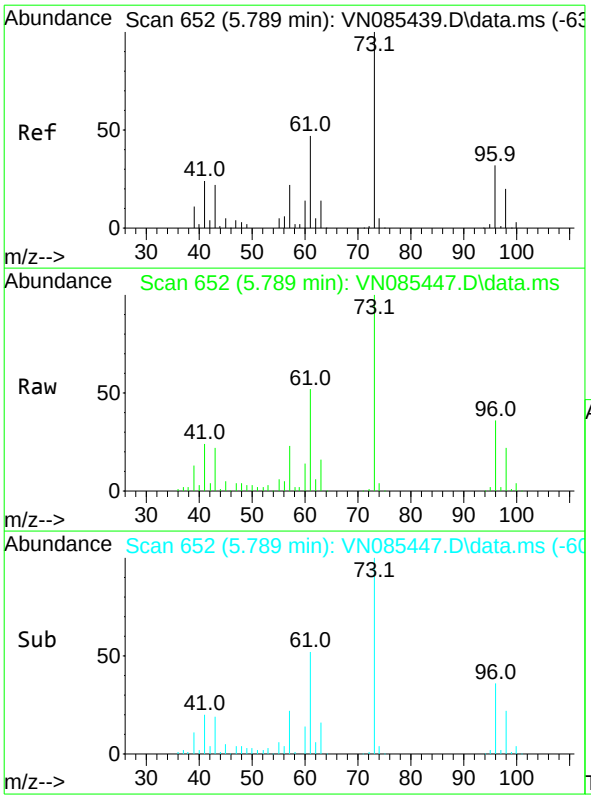


#18
Methyl Acetate
Concen: 44.146 ug/l
RT: 5.018 min Scan# 521
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 43 Resp: 152823

Ion	Ratio	Lower	Upper
43	100		
74	22.9	18.6	28.0





#19
Methyl tert-butyl Ether
Concen: 50.410 ug/l
RT: 5.789 min Scan# 65
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

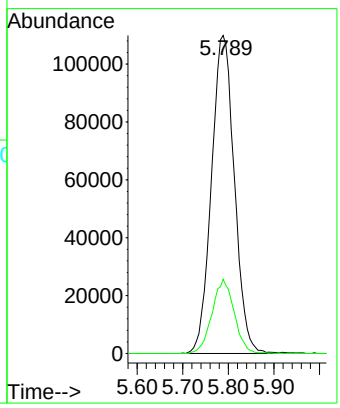
Tgt Ion: 73 Resp: 383442

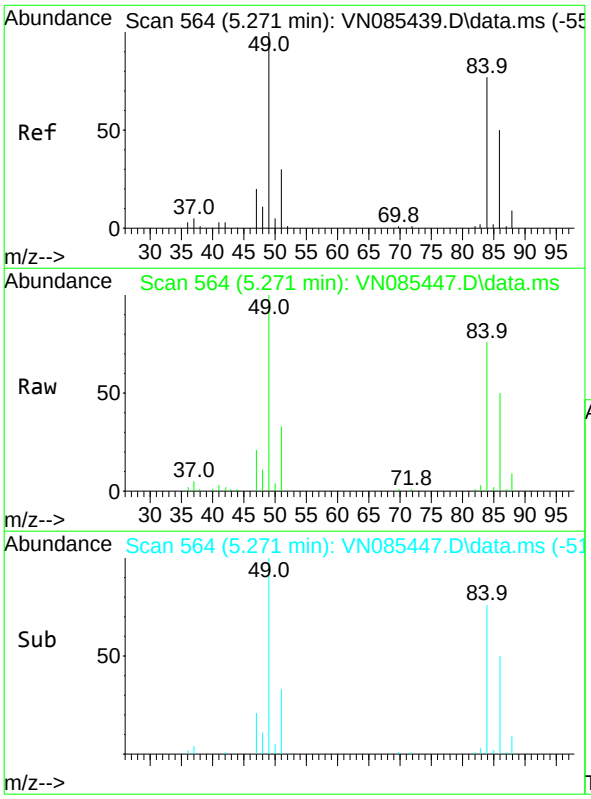
Ion	Ratio	Lower	Upper
73	100		
57	23.4	17.8	26.8

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

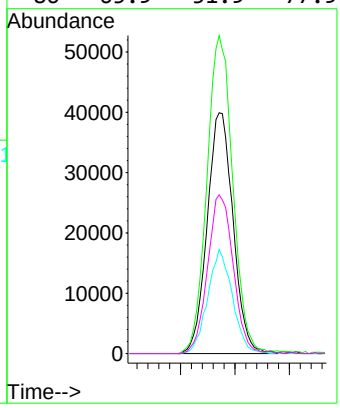


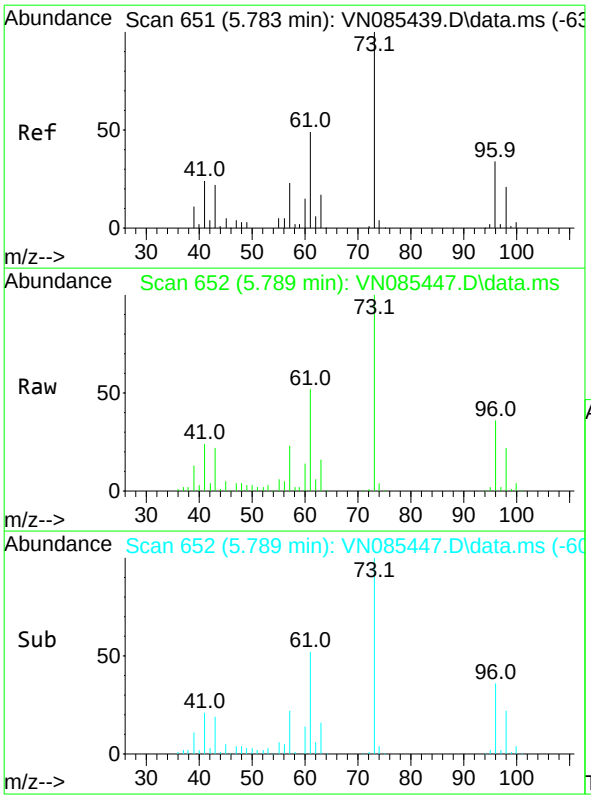


#20
Methylene Chloride
Concen: 46.863 ug/l
RT: 5.271 min Scan# 564
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 84 Resp: 132073

Ion	Ratio	Lower	Upper
84	100		
49	132.1	104.1	156.1
51	43.2	31.0	46.4
86	65.9	51.9	77.9

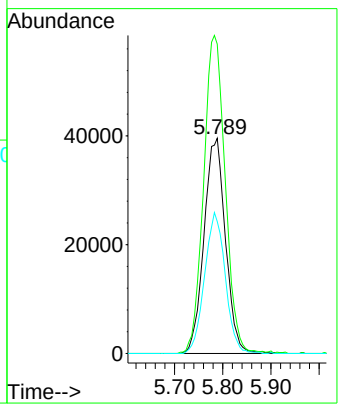




#21
trans-1,2-Dichloroethene
Concen: 49.008 ug/l
RT: 5.789 min Scan# 65
Delta R.T. 0.006 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 96 Resp: 122694

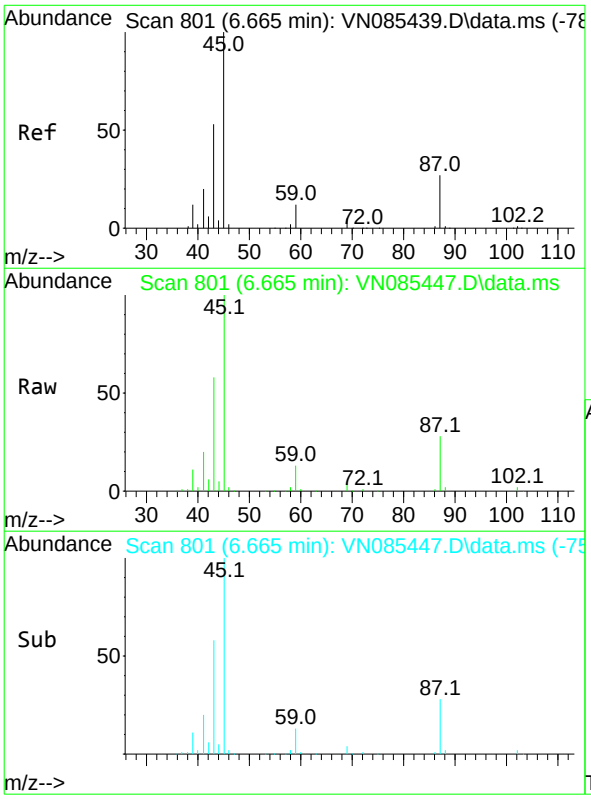
Ion	Ratio	Lower	Upper
96	100		
61	143.8	115.7	173.5
98	61.4	49.8	74.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

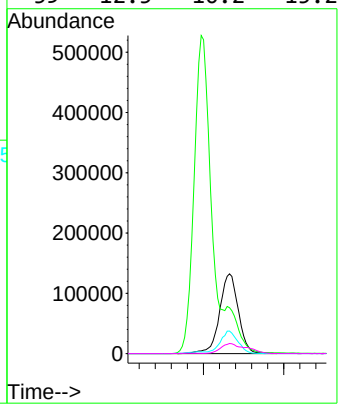
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

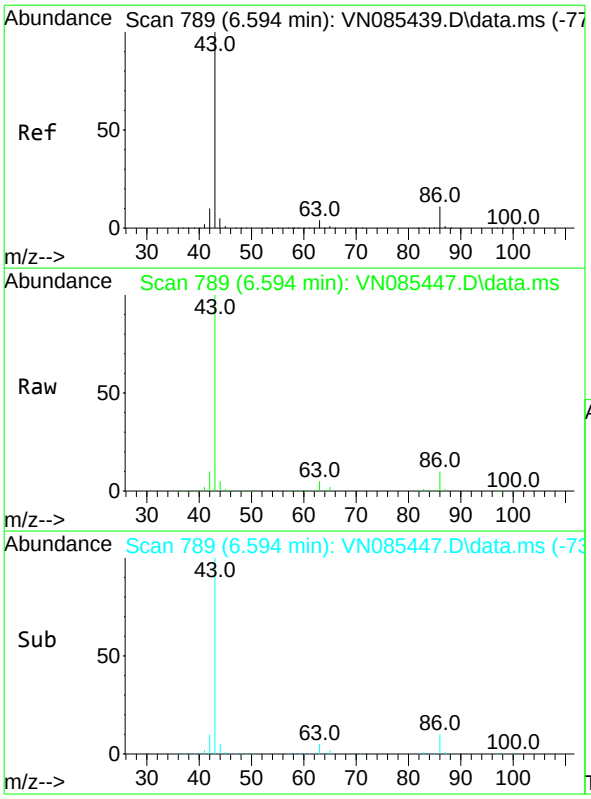


#22
Diisopropyl ether
Concen: 50.865 ug/l
RT: 6.665 min Scan# 801
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 45 Resp: 429155

Ion	Ratio	Lower	Upper
45	100		
43	56.6	45.0	67.6
87	28.3	21.8	32.8
59	12.5	10.2	15.2





#23
Vinyl Acetate
Concen: 259.270 ug/l
RT: 6.594 min Scan# 78
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

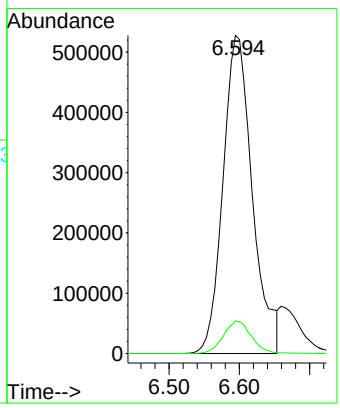
Tgt Ion: 43 Resp: 1530873

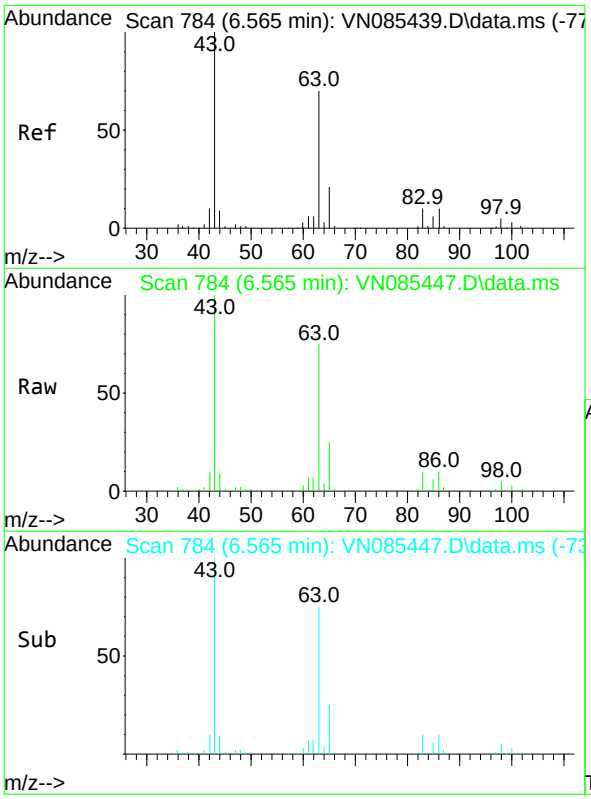
Ion	Ratio	Lower	Upper
43	100		
86	10.2	8.4	12.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

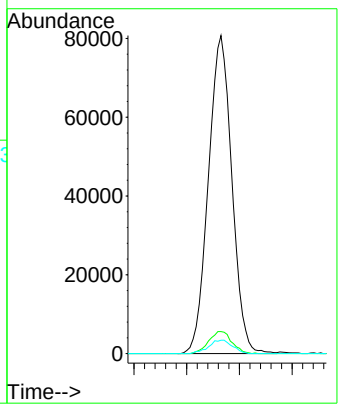


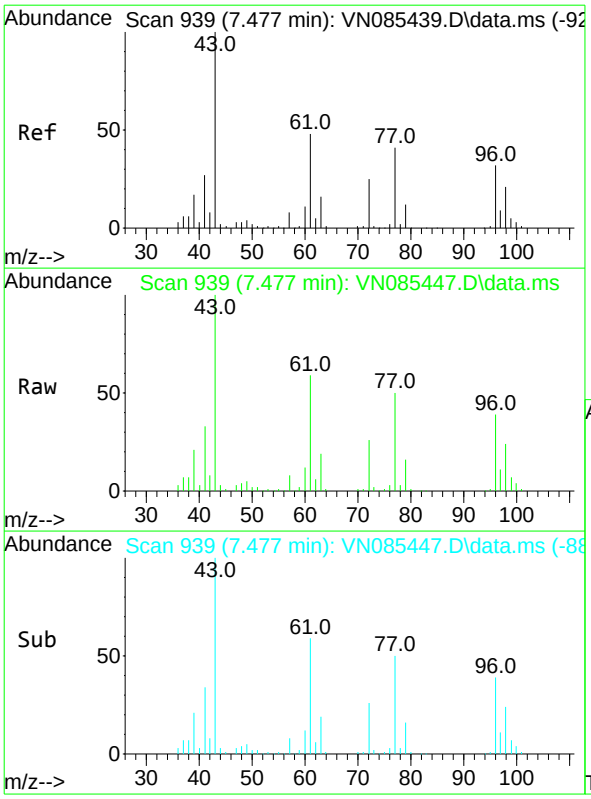


#24
1,1-Dichloroethane
Concen: 48.606 ug/l
RT: 6.565 min Scan# 784
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 63 Resp: 250056

Ion	Ratio	Lower	Upper
63	100		
98	6.9	3.3	9.8
100	4.2	2.0	6.0

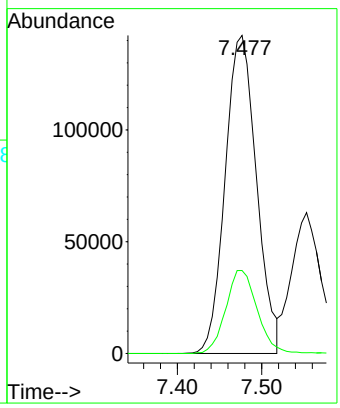




#25
2-Butanone
Concen: 219.497 ug/l
RT: 7.477 min Scan# 93
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 43 Resp: 367726

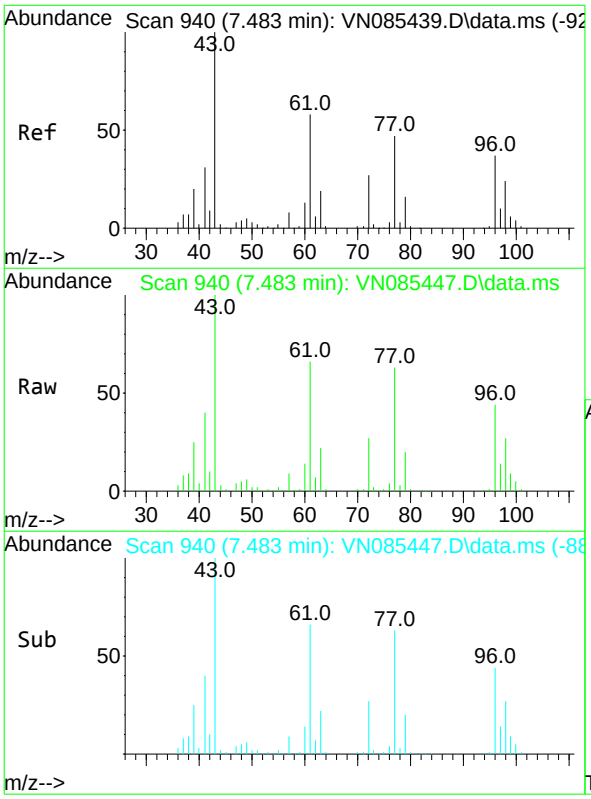
Ion	Ratio	Lower	Upper
43	100		
72	26.1	20.2	30.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

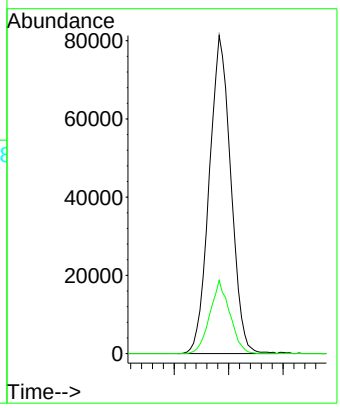
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

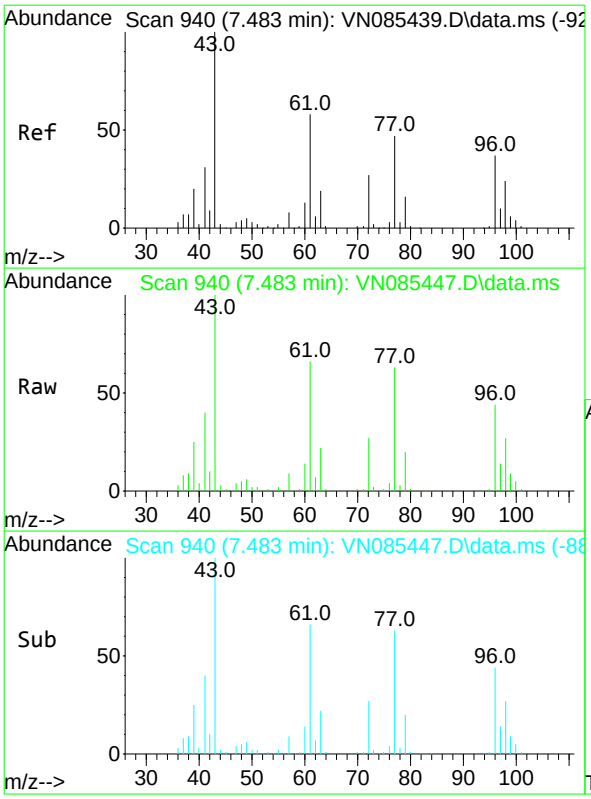


#26
2,2-Dichloropropane
Concen: 53.956 ug/l
RT: 7.483 min Scan# 940
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 77 Resp: 224423

Ion	Ratio	Lower	Upper
77	100		
97	21.2	10.7	32.1





#27
cis-1,2-Dichloroethene
Concen: 49.893 ug/l
RT: 7.483 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

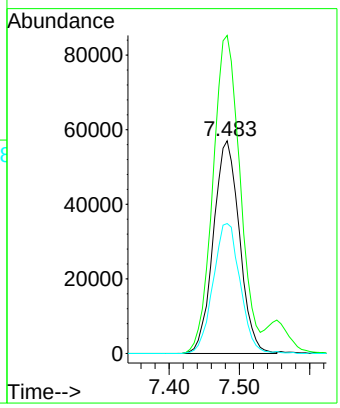
Tgt Ion: 96 Resp: 147121

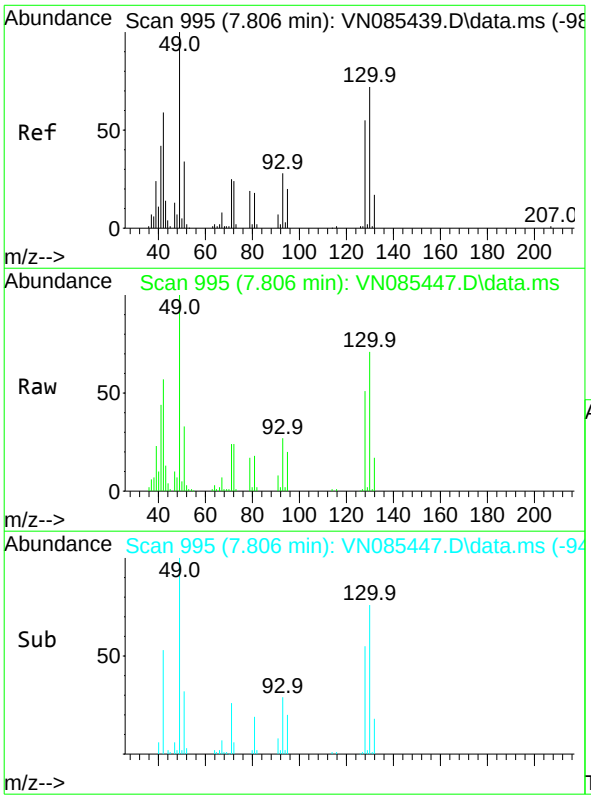
Ion	Ratio	Lower	Upper
96	100		
61	155.3	0.0	311.8
98	63.3	0.0	126.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

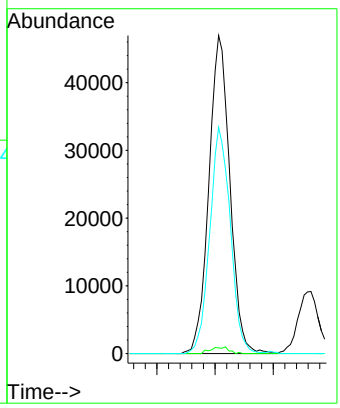


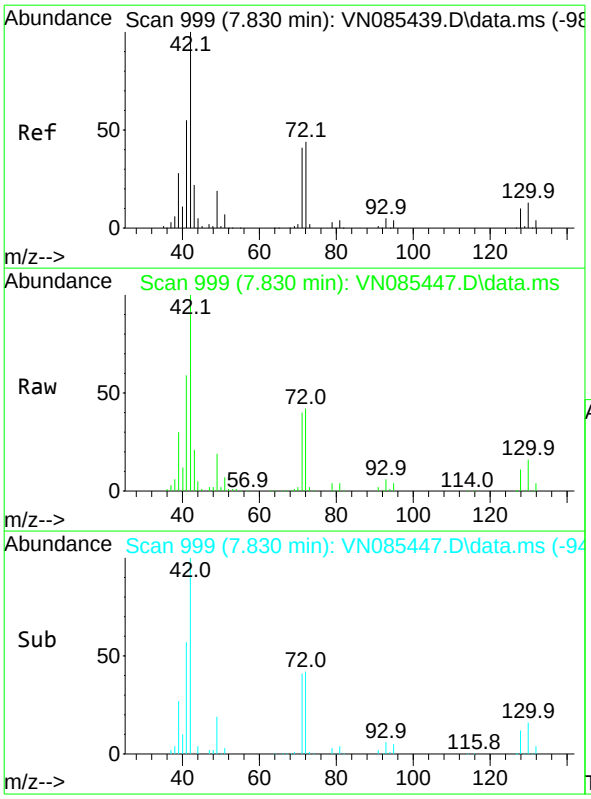


#28
Bromochloromethane
Concen: 49.226 ug/l
RT: 7.806 min Scan# 995
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 49 Resp: 117821

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	4.4
130	69.6	55.0	82.4

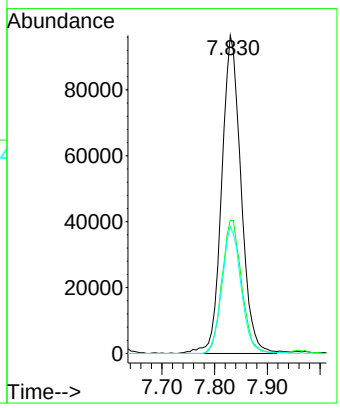




#29
Tetrahydrofuran
Concen: 231.013 ug/l
RT: 7.830 min Scan# 99
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 42 Resp: 245371

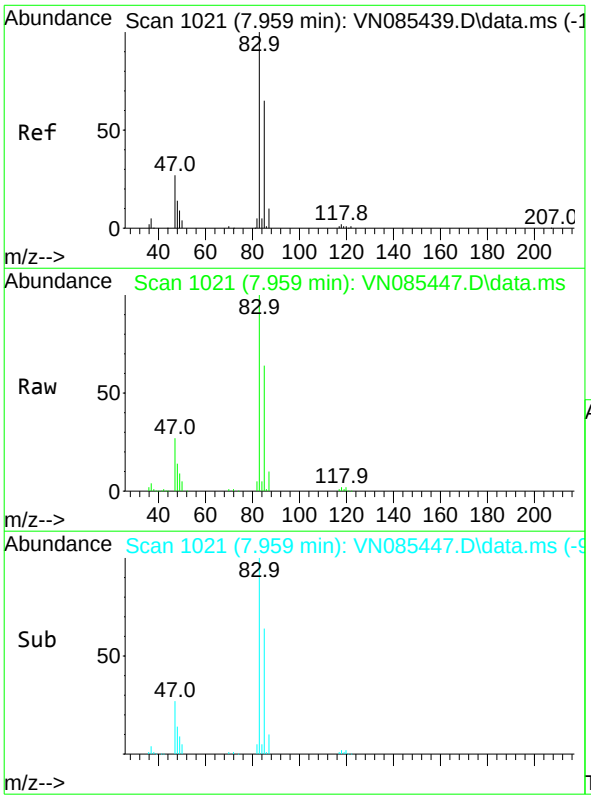
Ion	Ratio	Lower	Upper
42	100		
72	42.6	34.2	51.2
71	39.6	32.5	48.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

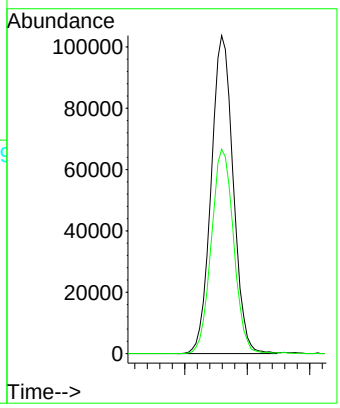
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

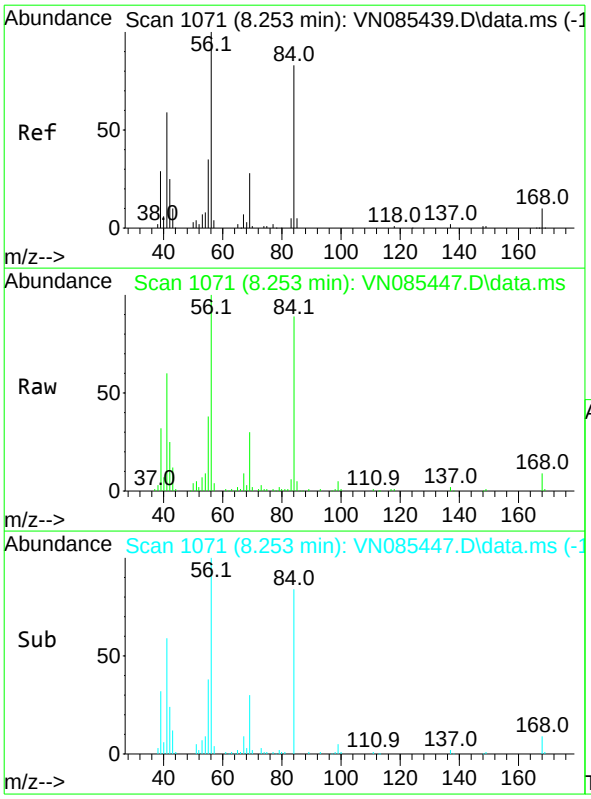


#30
Chloroform
Concen: 47.743 ug/l
RT: 7.959 min Scan# 1021
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 83 Resp: 253854

Ion	Ratio	Lower	Upper
83	100		
85	64.3	51.8	77.6

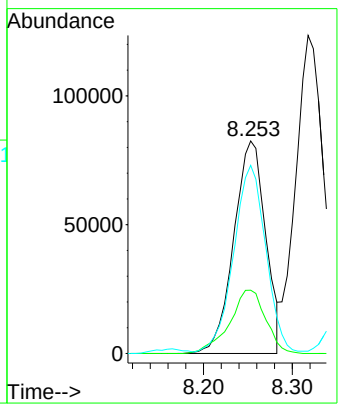




#31
Cyclohexane
Concen: 45.962 ug/l
RT: 8.253 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 56 Resp: 205522

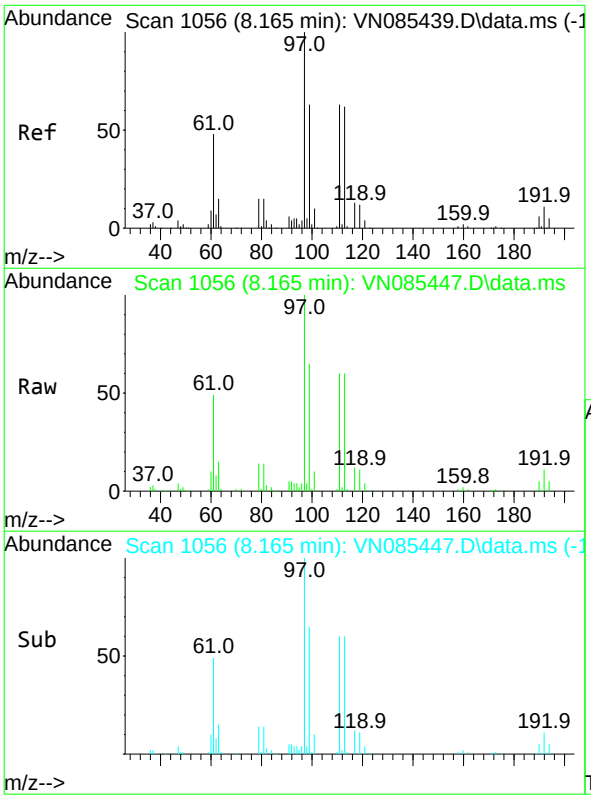
Ion	Ratio	Lower	Upper
56	100		
69	29.8	22.2	33.4
84	86.8	66.4	99.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

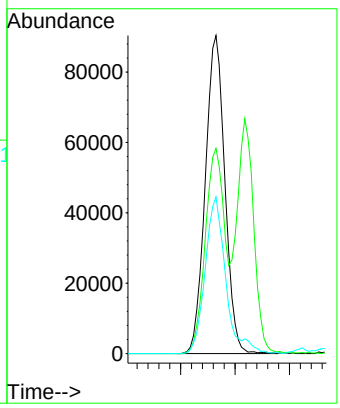
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

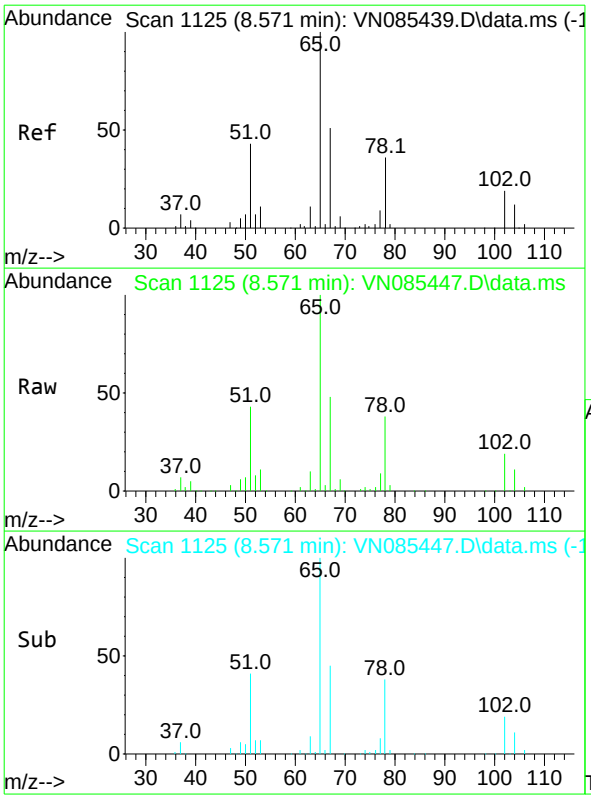


#32
1,1,1-Trichloroethane
Concen: 48.453 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 97 Resp: 225987

Ion	Ratio	Lower	Upper
97	100		
99	63.5	49.8	74.6
61	51.8	41.4	62.2

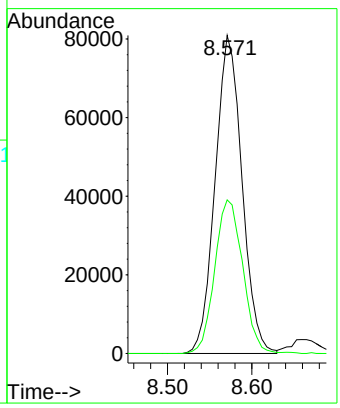




#33
1,2-Dichloroethane-d4
Concen: 50.745 ug/l
RT: 8.571 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 65 Resp: 178793

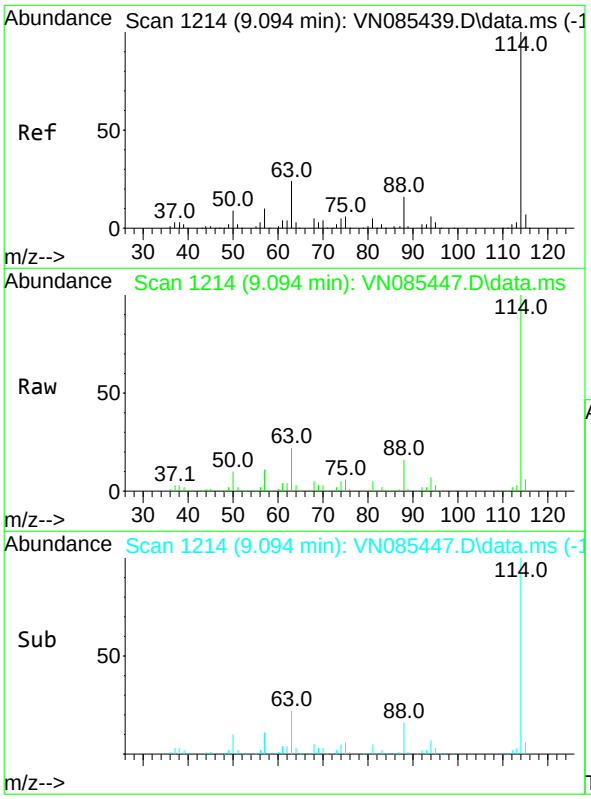
Ion	Ratio	Lower	Upper
65	100		
67	50.2	0.0	101.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

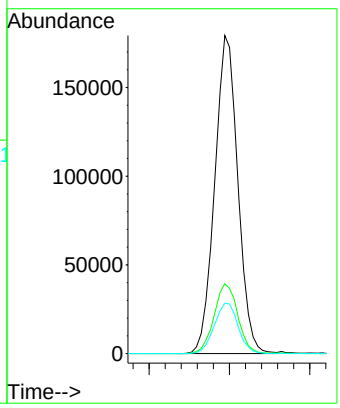
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

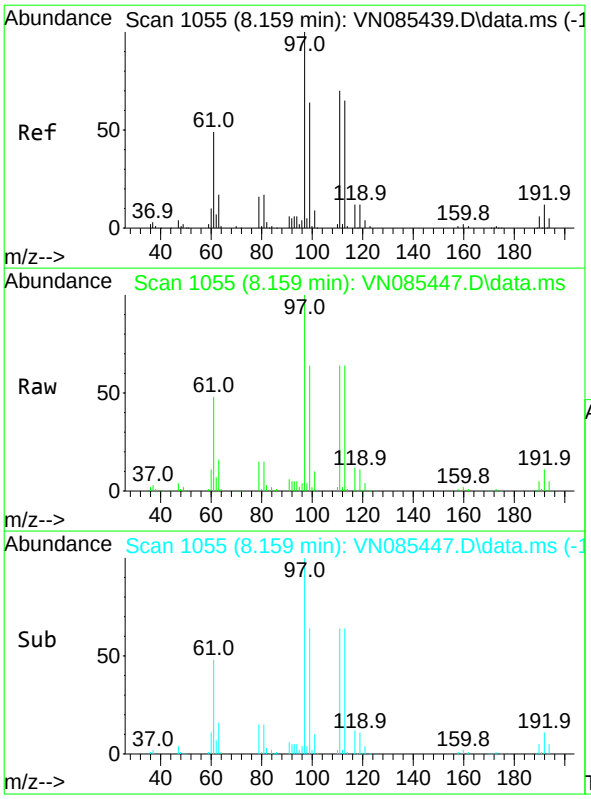


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.094 min Scan# 1214
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion:114 Resp: 358609

Ion	Ratio	Lower	Upper
114	100		
63	22.0	0.0	47.6
88	15.9	0.0	32.6

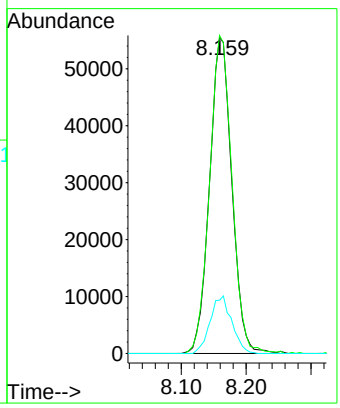




#35
Dibromofluoromethane
Concen: 53.211 ug/l
RT: 8.159 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion:113 Resp: 132381

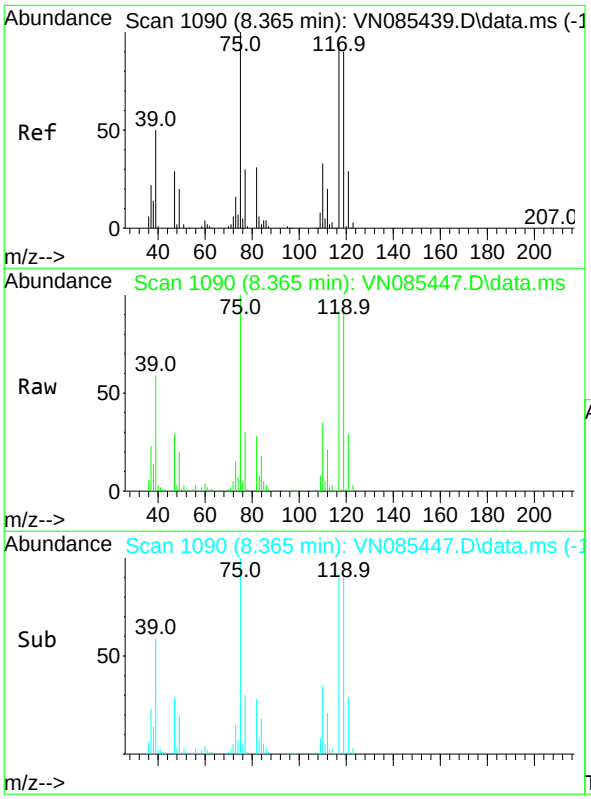
Ion	Ratio	Lower	Upper
113	100		
111	101.2	82.7	124.1
192	17.7	14.3	21.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

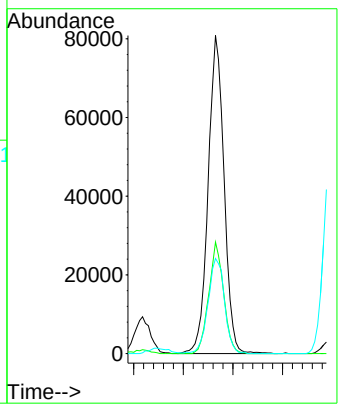
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

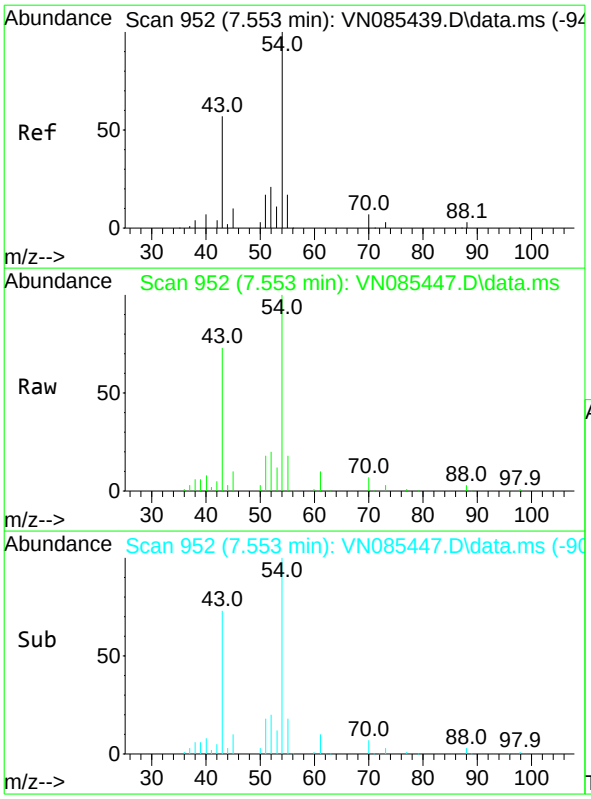


#36
1,1-Dichloropropene
Concen: 51.631 ug/l
RT: 8.365 min Scan# 1090
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 75 Resp: 180278

Ion	Ratio	Lower	Upper
75	100		
110	32.6	16.5	49.5
77	30.9	24.4	36.6

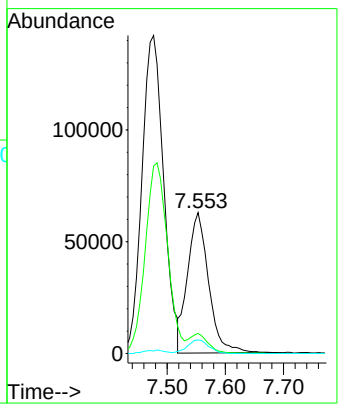




#37
Ethyl Acetate
Concen: 44.802 ug/l
RT: 7.553 min Scan# 95
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 43 Resp: 157899

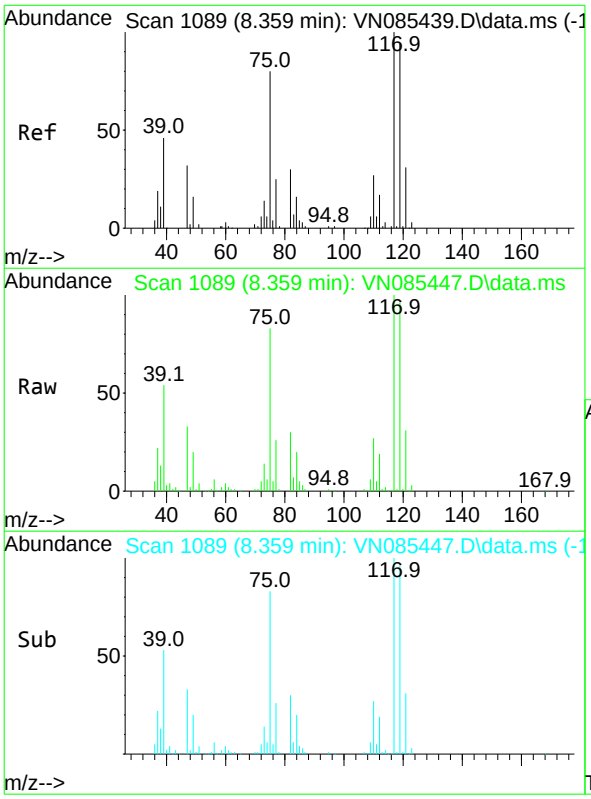
Ion	Ratio	Lower	Upper
43	100		
61	11.7	10.9	16.3
70	9.8	7.5	11.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

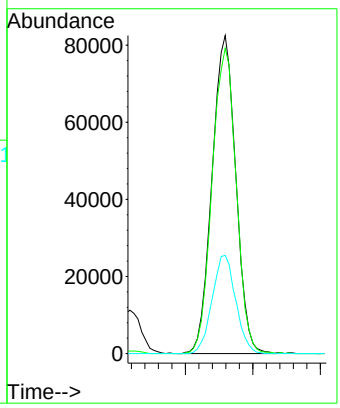
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

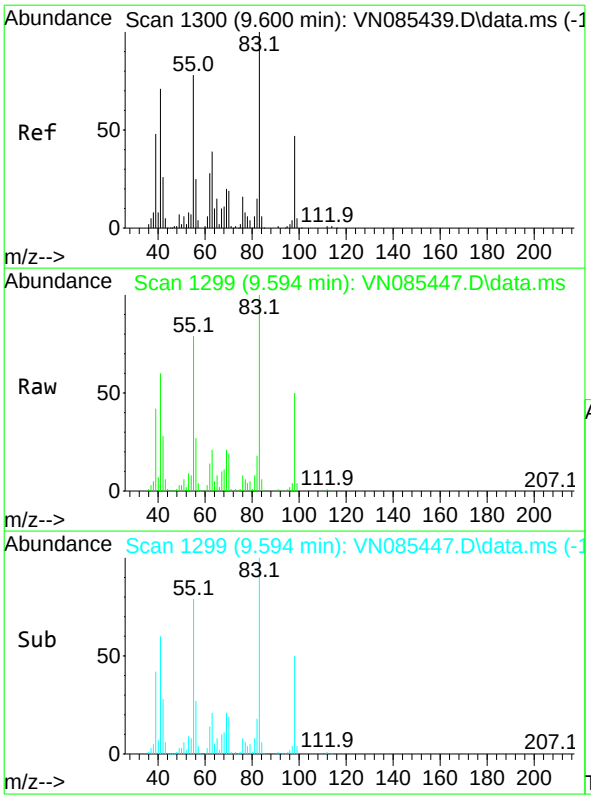


#38
Carbon Tetrachloride
Concen: 50.466 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion:117 Resp: 201730

Ion	Ratio	Lower	Upper
117	100		
119	96.0	75.4	113.2
121	30.9	24.6	37.0

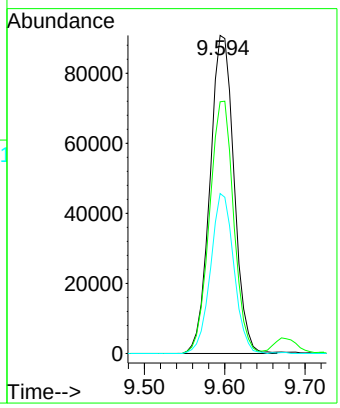




#39
Methylcyclohexane
Concen: 57.732 ug/l
RT: 9.594 min Scan# 12
Delta R.T. -0.006 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 83 Resp: 189425

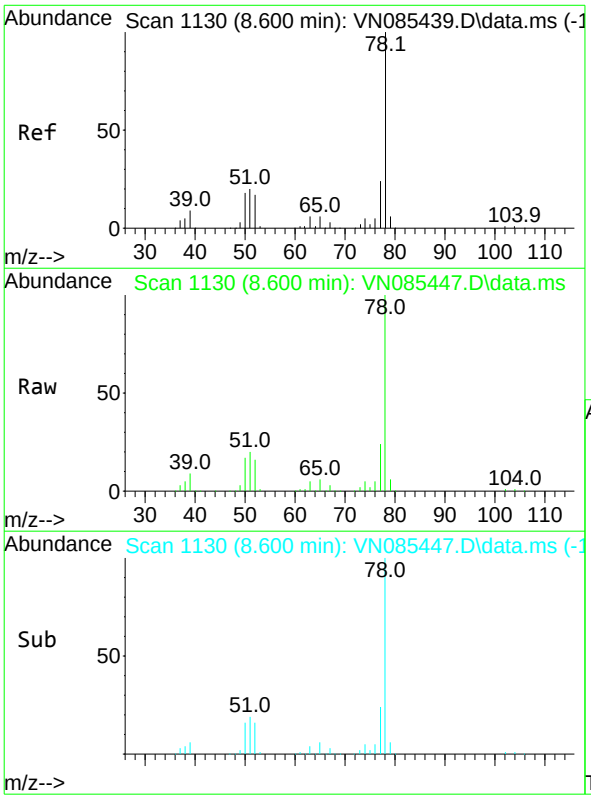
Ion	Ratio	Lower	Upper
83	100		
55	79.1	62.6	94.0
98	50.3	37.7	56.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

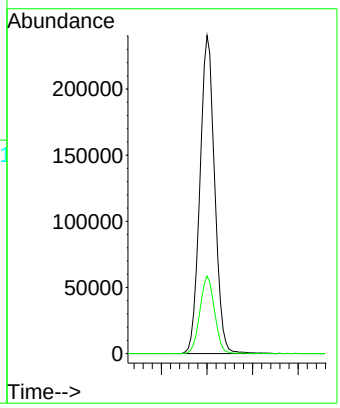
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

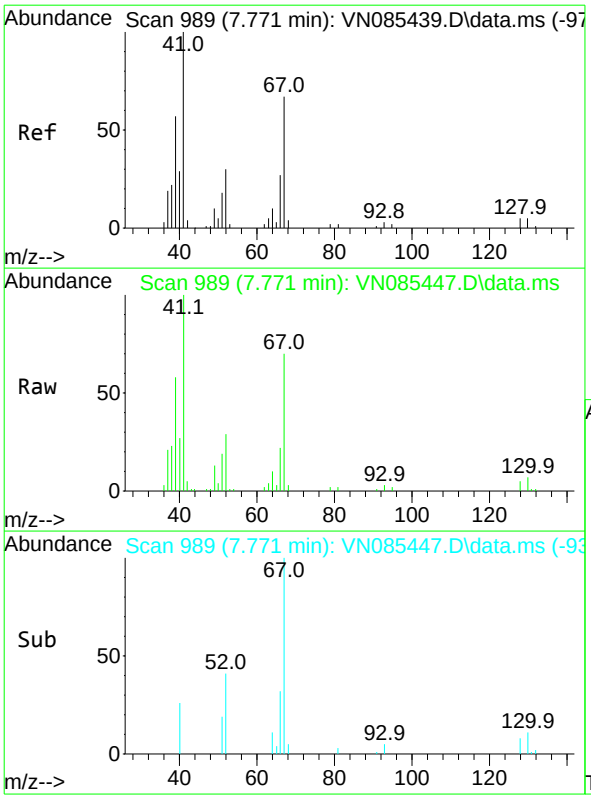


#40
Benzene
Concen: 51.417 ug/l
RT: 8.600 min Scan# 1130
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 78 Resp: 539436

Ion	Ratio	Lower	Upper
78	100		
77	24.4	19.0	28.6

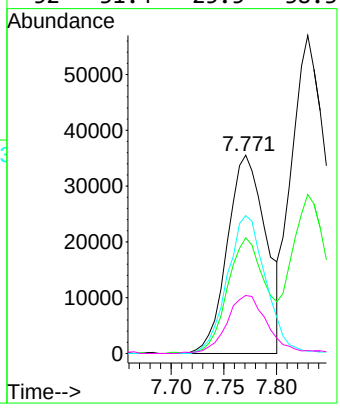




#41
Methacrylonitrile
Concen: 49.387 ug/l
RT: 7.771 min Scan# 98
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 41 Resp: 90556

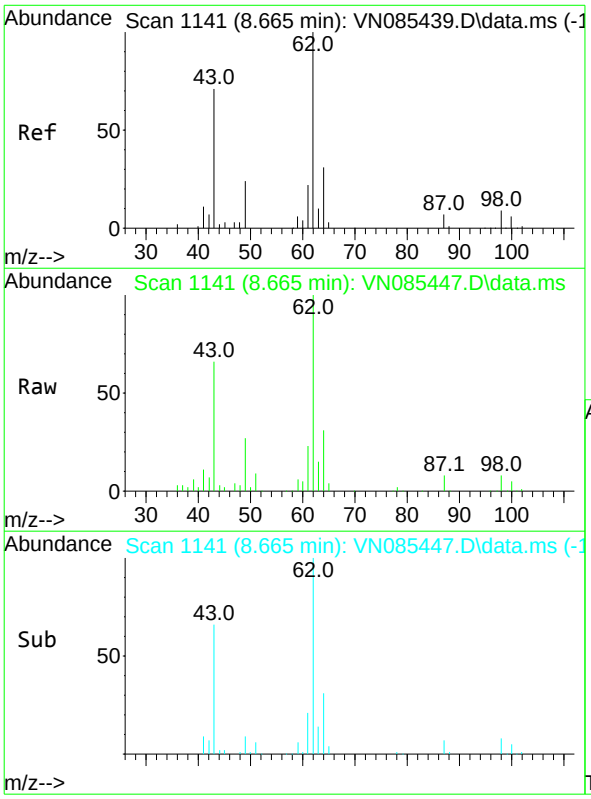
Ion	Ratio	Lower	Upper
41	100		
39	57.8	46.0	69.0
67	69.2	57.4	86.2
52	31.4	25.5	38.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

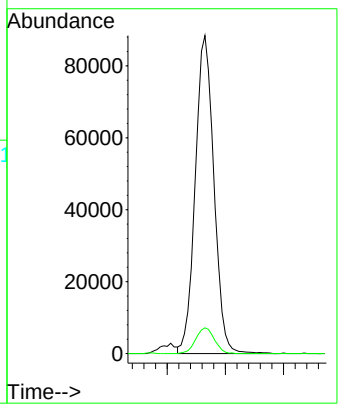
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

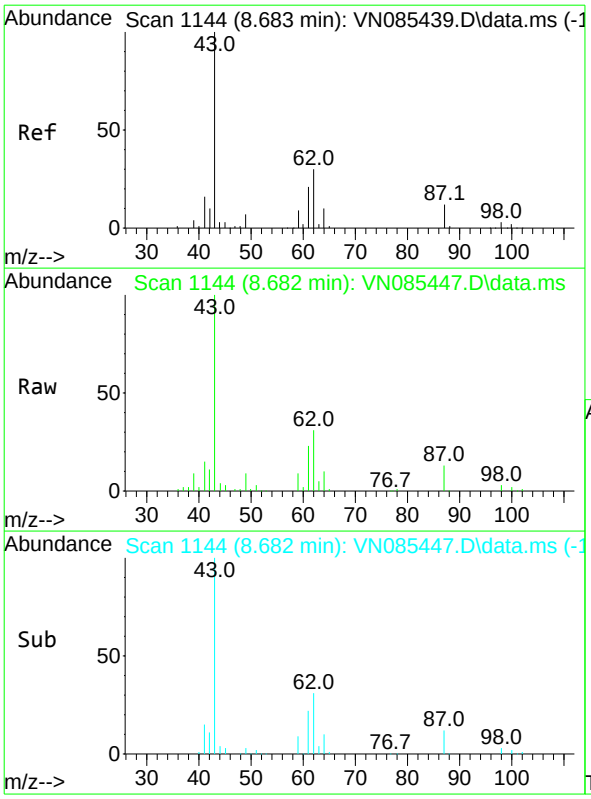


#42
1,2-Dichloroethane
Concen: 49.881 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 62 Resp: 197097

Ion	Ratio	Lower	Upper
62	100		
98	8.1	0.0	17.0

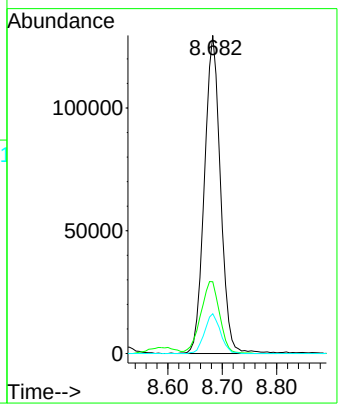




#43
Isopropyl Acetate
Concen: 47.153 ug/l
RT: 8.682 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 43 Resp: 266284

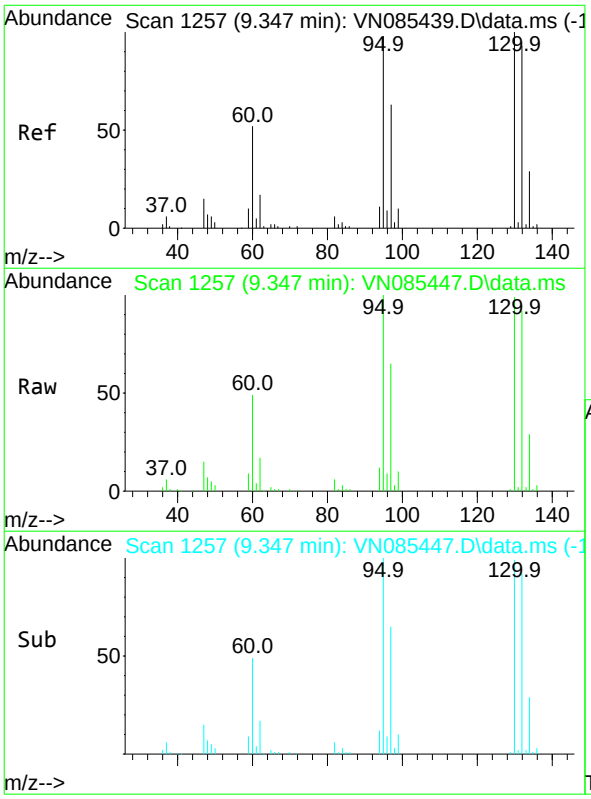
Ion	Ratio	Lower	Upper
43	100		
61	26.6	20.7	31.1
87	12.3	9.8	14.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

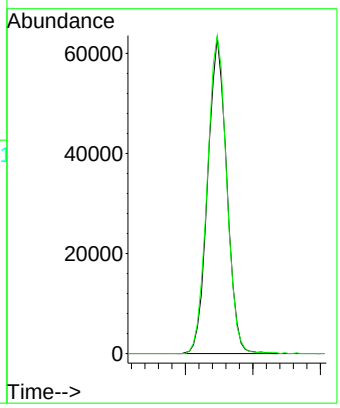
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

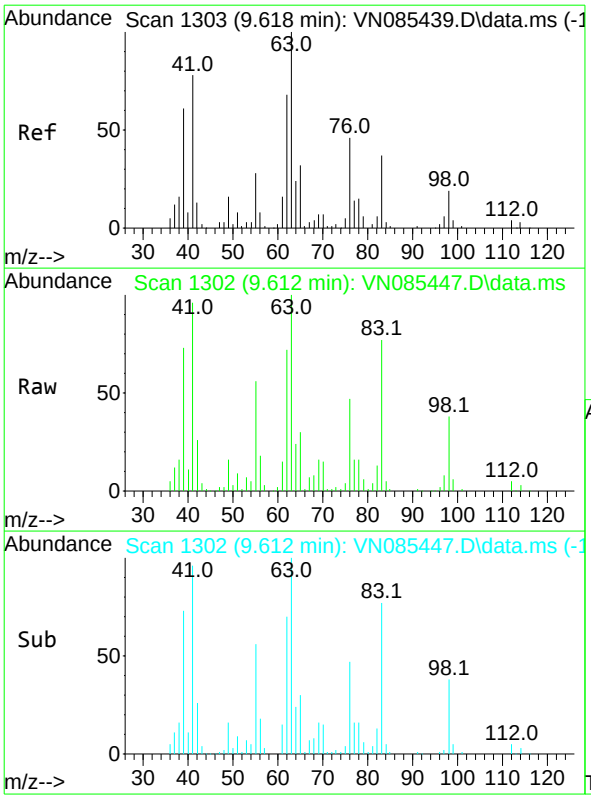


#44
Trichloroethene
Concen: 50.700 ug/l
RT: 9.347 min Scan# 1257
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion:130 Resp: 123817

Ion	Ratio	Lower	Upper
130	100		
95	100.6	0.0	195.8

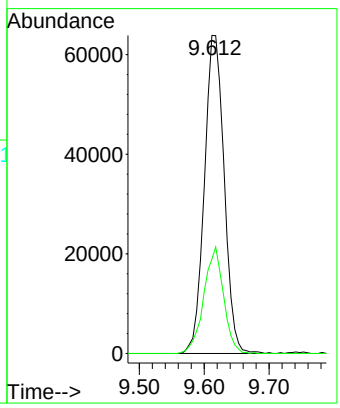




#45
1,2-Dichloropropane
Concen: 50.468 ug/l
RT: 9.612 min Scan# 13
Delta R.T. -0.006 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 63 Resp: 135244

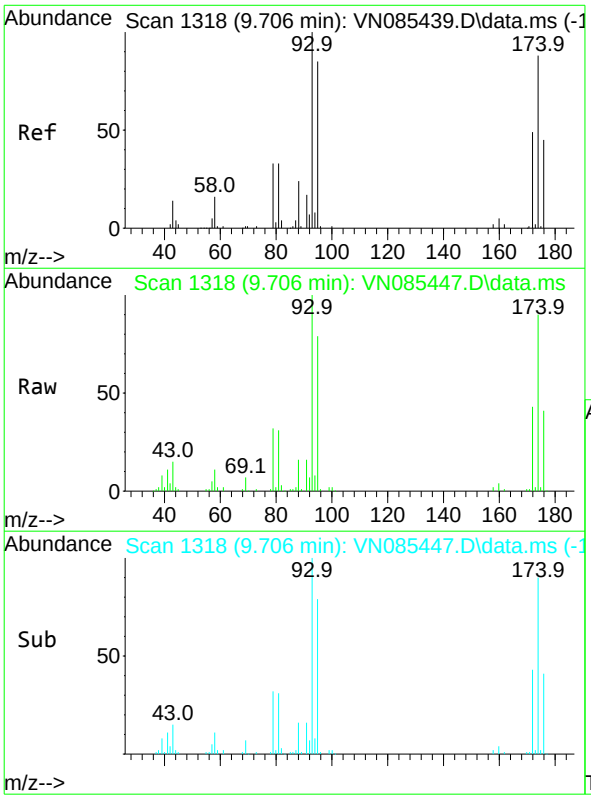
Ion	Ratio	Lower	Upper
63	100		
65	29.6	25.6	38.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

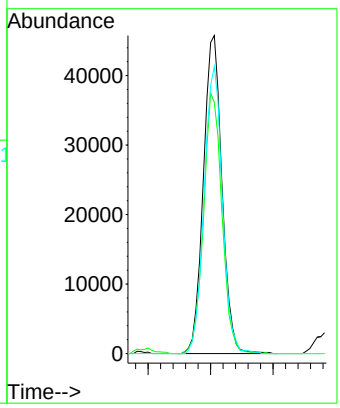
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

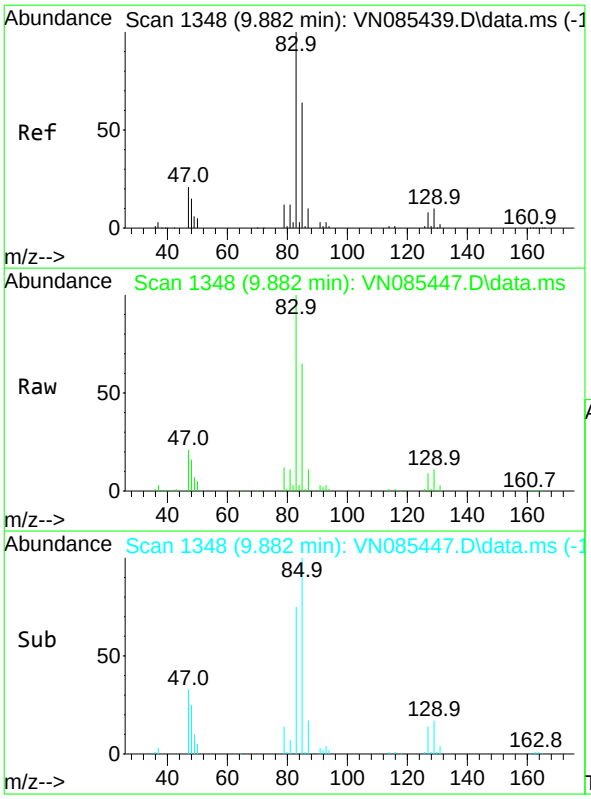


#46
Dibromomethane
Concen: 48.873 ug/l
RT: 9.706 min Scan# 1318
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 93 Resp: 94501

Ion	Ratio	Lower	Upper
93	100		
95	81.3	64.7	97.1
174	88.9	69.0	103.4

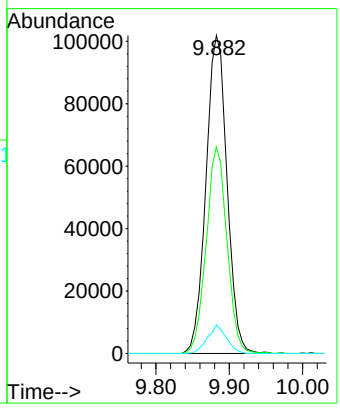




#47
Bromodichloromethane
Concen: 51.671 ug/l
RT: 9.882 min Scan# 13
Delta R.T. 0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 83 Resp: 203552

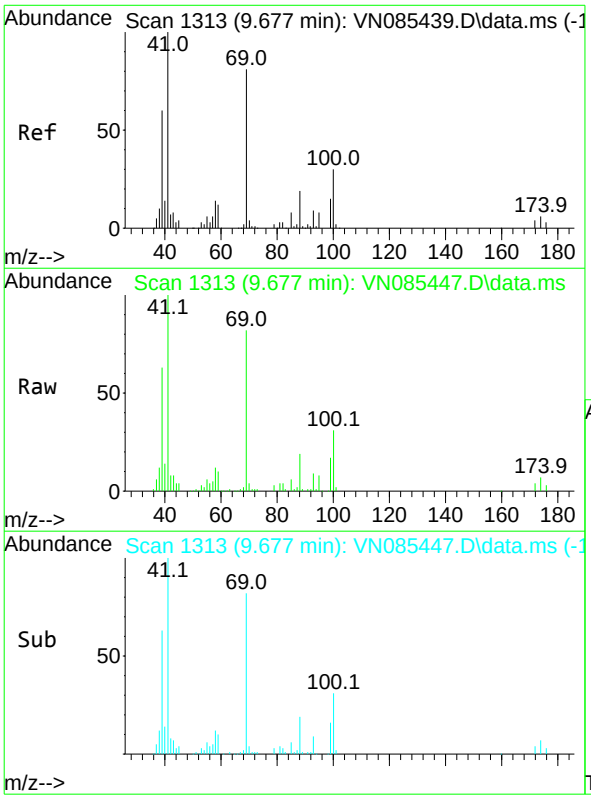
Ion	Ratio	Lower	Upper
83	100		
85	64.9	51.2	76.8
127	9.0	6.5	9.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

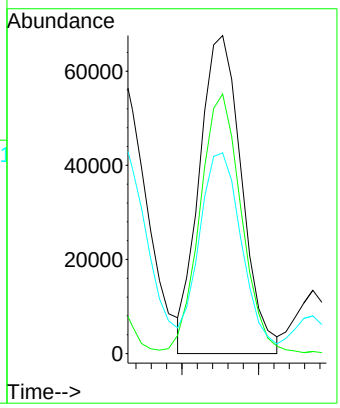
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

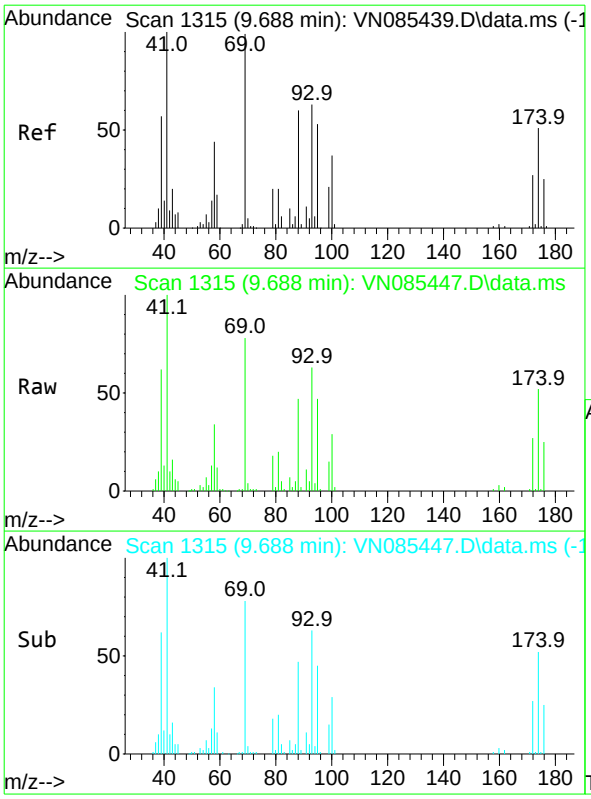


#48
Methyl methacrylate
Concen: 50.945 ug/l
RT: 9.677 min Scan# 1313
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 41 Resp: 129471

Ion	Ratio	Lower	Upper
41	100		
69	80.8	64.7	97.1
39	63.9	49.0	73.6

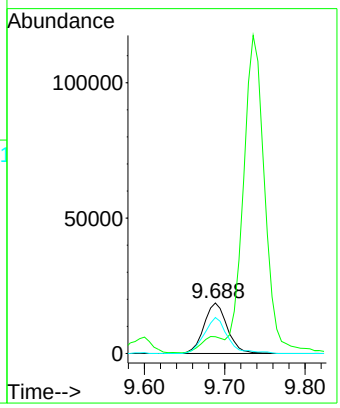




#49
1,4-Dioxane
Concen: 873.742 ug/l
RT: 9.688 min Scan# 13
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 88 Resp: 37393

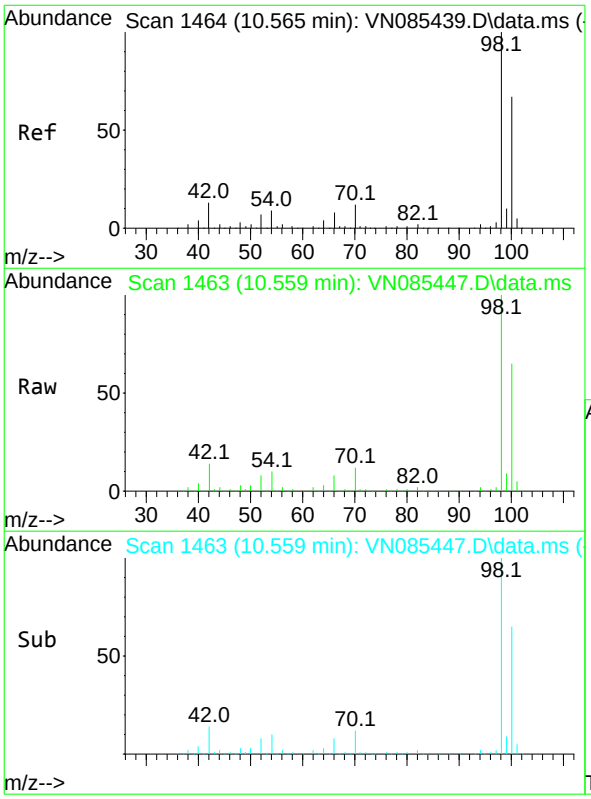
Ion	Ratio	Lower	Upper
88	100		
43	32.7	26.6	39.8
58	72.0	59.5	89.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

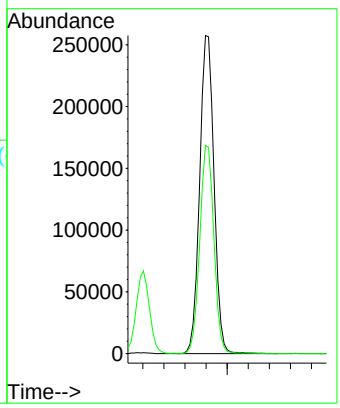
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

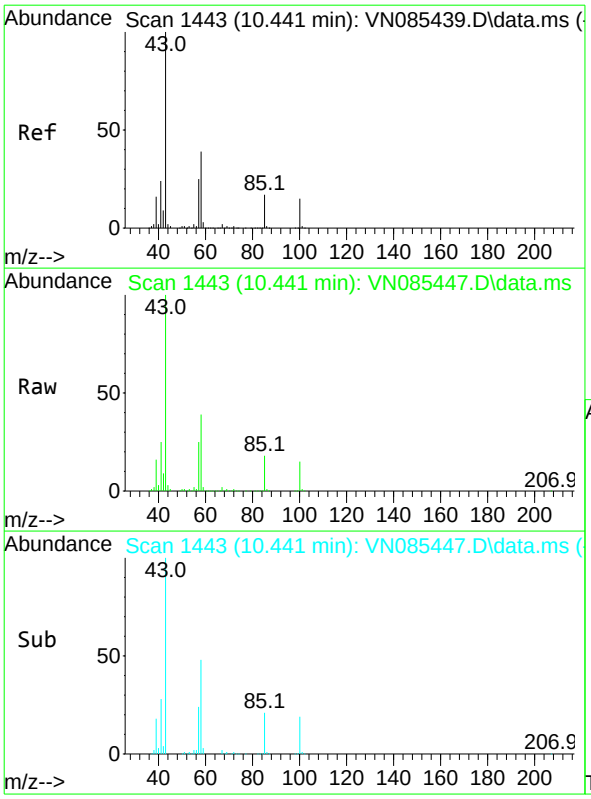


#50
Toluene-d8
Concen: 55.032 ug/l
RT: 10.559 min Scan# 1463
Delta R.T. -0.006 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 98 Resp: 486444

Ion	Ratio	Lower	Upper
98	100		
100	64.7	52.2	78.4

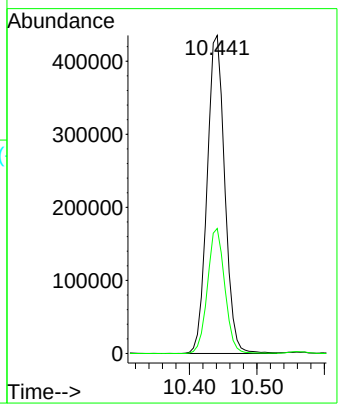




#51
4-Methyl-2-Pentanone
Concen: 240.885 ug/l
RT: 10.441 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 43 Resp: 789380

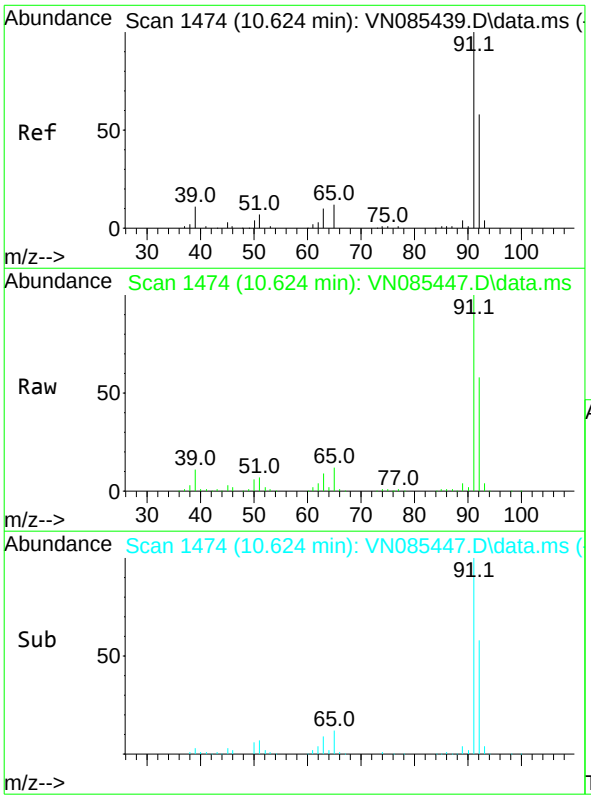
Ion	Ratio	Lower	Upper
43	100		
58	38.6	30.5	45.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

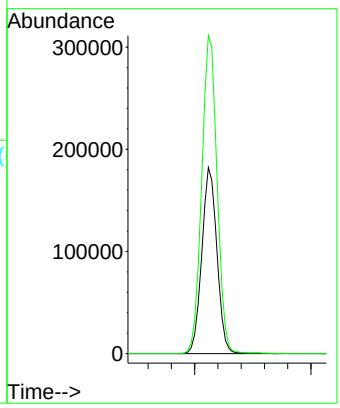
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

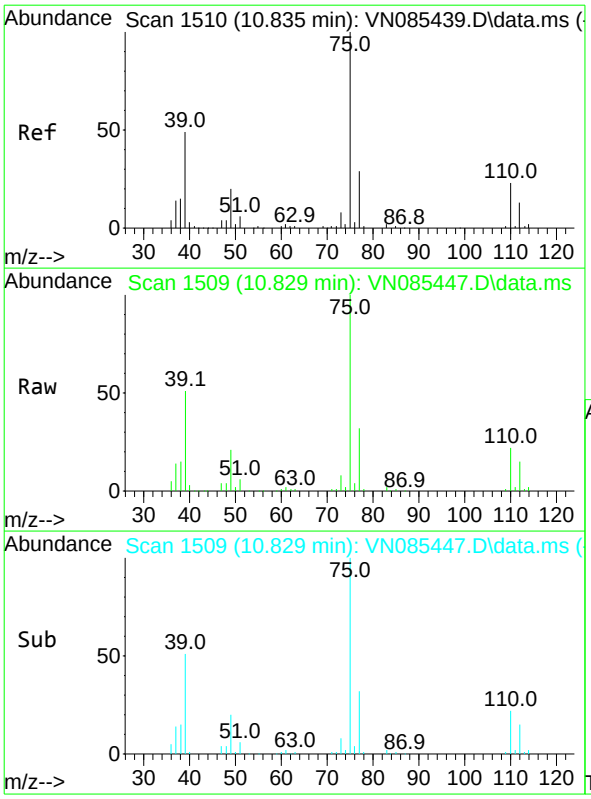


#52
Toluene
Concen: 54.029 ug/l
RT: 10.624 min Scan# 1474
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 92 Resp: 328434

Ion	Ratio	Lower	Upper
92	100		
91	174.2	139.2	208.8

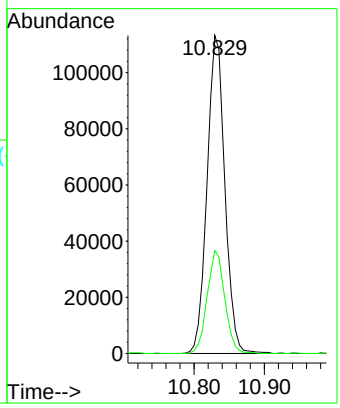




#53
t-1,3-Dichloropropene
Concen: 53.447 ug/l
RT: 10.829 min Scan# 15
Delta R.T. -0.006 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 75 Resp: 198974

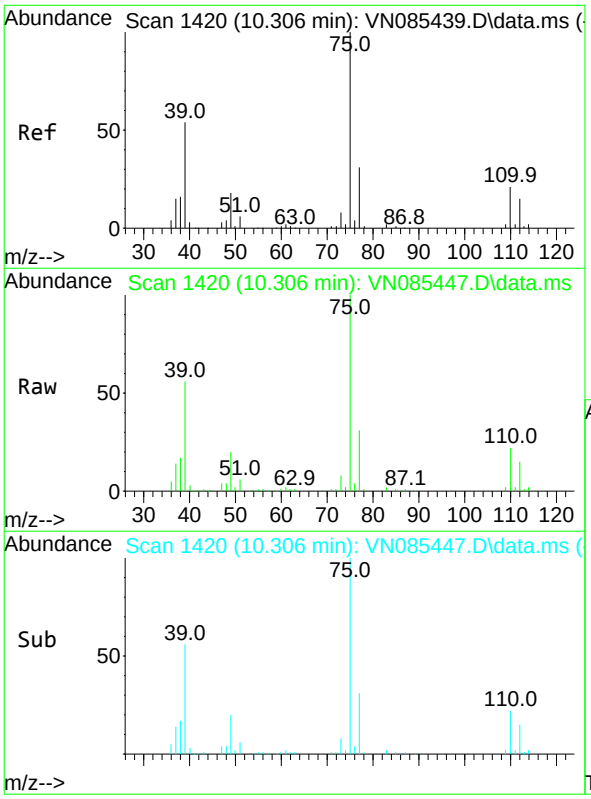
Ion	Ratio	Lower	Upper
75	100		
77	32.4	23.5	35.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

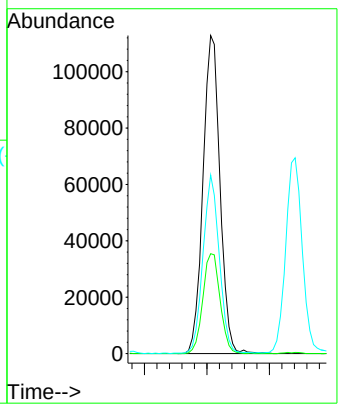
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

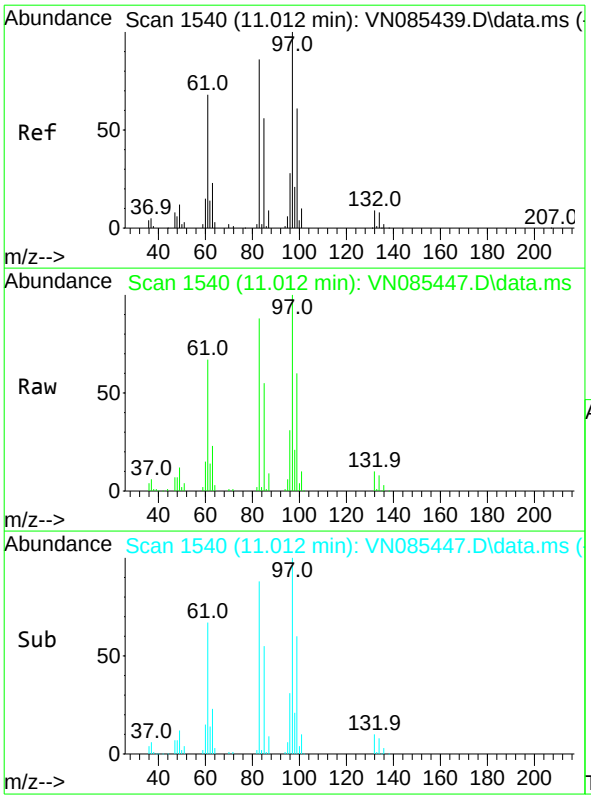


#54
cis-1,3-Dichloropropene
Concen: 53.582 ug/l
RT: 10.306 min Scan# 1420
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 75 Resp: 213072

Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.0	37.4
39	56.0	43.1	64.7

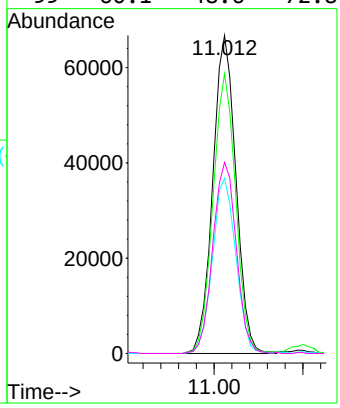




#55
1,1,2-Trichloroethane
Concen: 50.215 ug/l
RT: 11.012 min Scan# 15
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 97 Resp: 120803

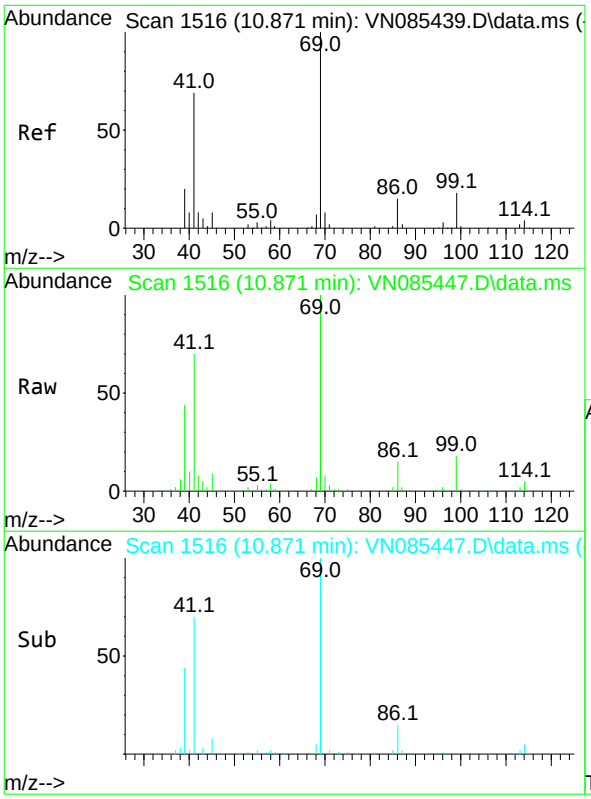
Ion	Ratio	Lower	Upper
97	100		
83	88.0	69.0	103.6
85	55.1	44.6	66.8
99	60.1	48.6	72.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

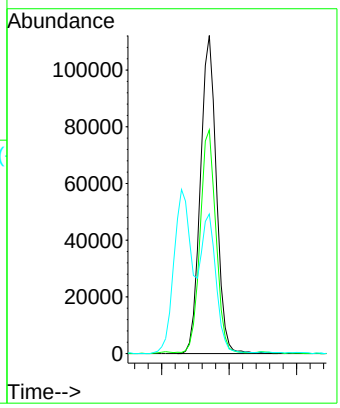
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

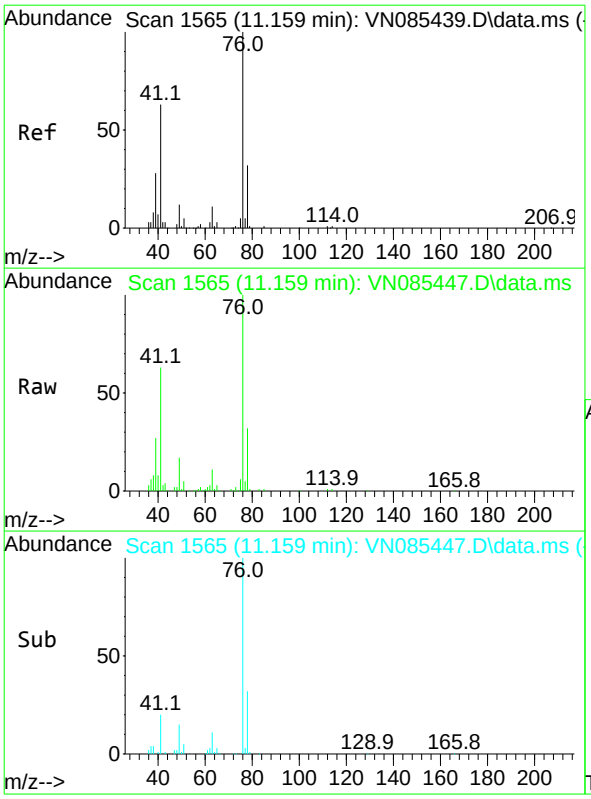


#56
Ethyl methacrylate
Concen: 45.714 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 69 Resp: 184561

Ion	Ratio	Lower	Upper
69	100		
41	68.8	54.6	82.0
39	39.6	32.4	48.6

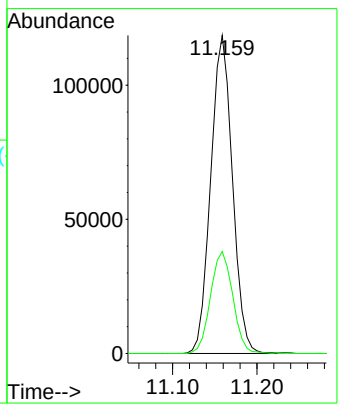




#57
1,3-Dichloropropane
Concen: 50.662 ug/l
RT: 11.159 min Scan# 15
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 76 Resp: 211921

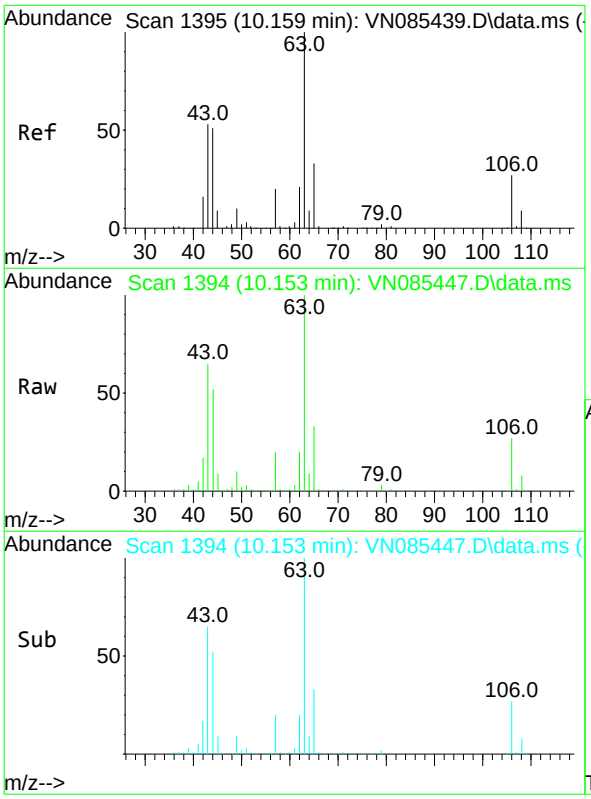
Ion	Ratio	Lower	Upper
76	100		
78	32.9	25.6	38.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

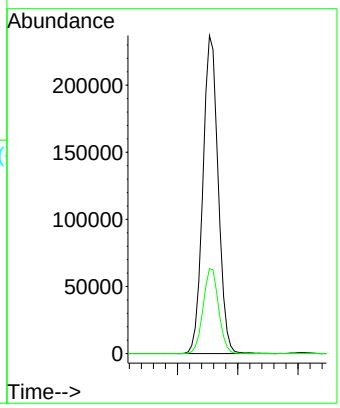
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

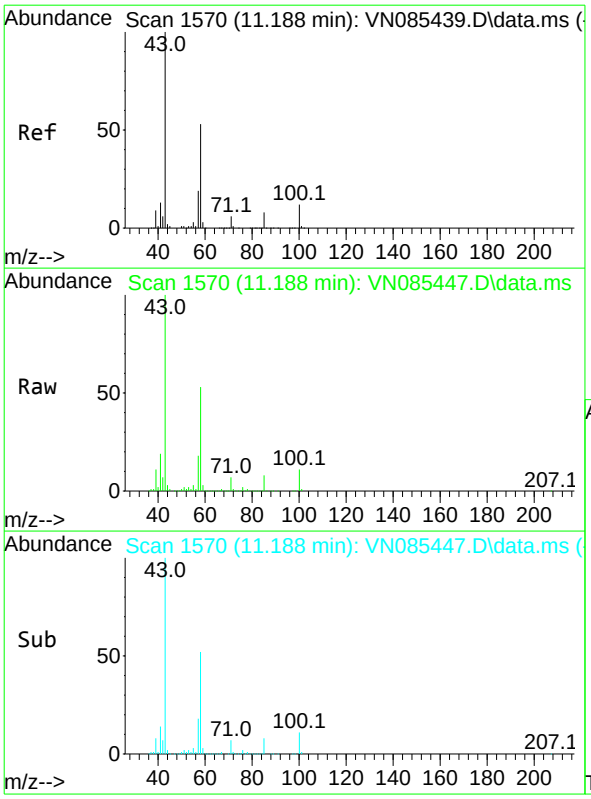


#58
2-Chloroethyl Vinyl ether
Concen: 272.966 ug/l
RT: 10.153 min Scan# 1394
Delta R.T. -0.006 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 63 Resp: 416723

Ion	Ratio	Lower	Upper
63	100		
106	27.1	21.6	32.4

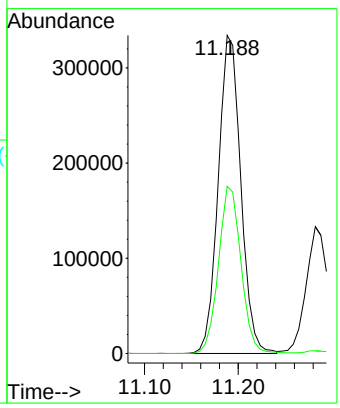




#59
2-Hexanone
Concen: 242.307 ug/l
RT: 11.188 min Scan# 15
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 43 Resp: 558711

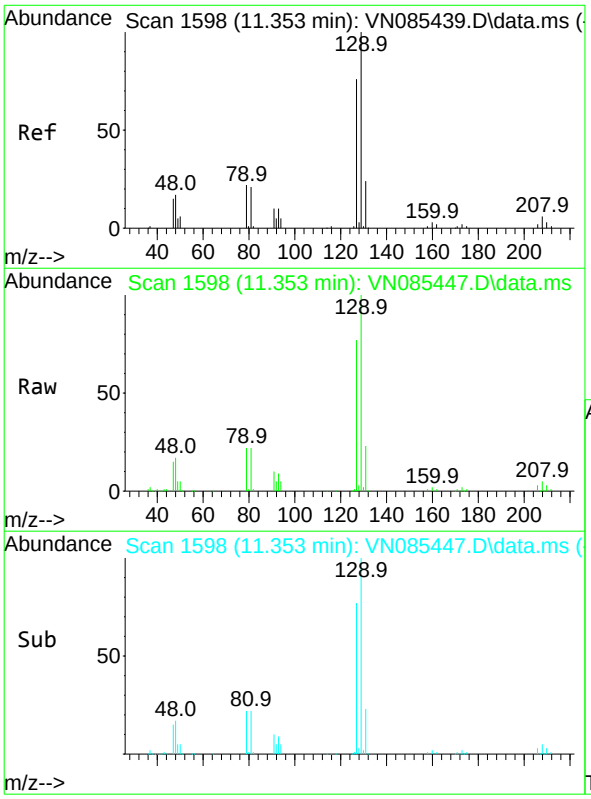
Ion	Ratio	Lower	Upper
43	100		
58	52.6	26.2	78.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

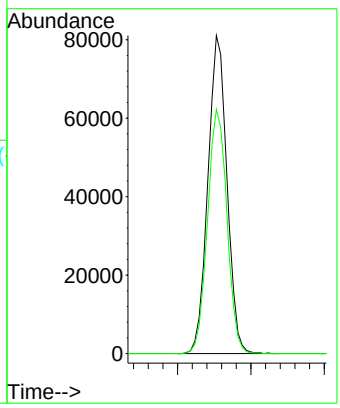
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

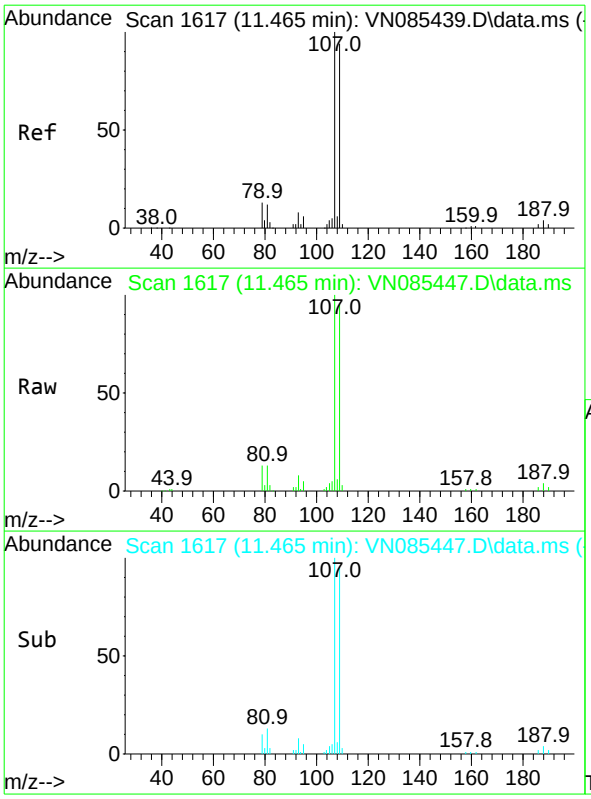


#60
Dibromochloromethane
Concen: 50.392 ug/l
RT: 11.353 min Scan# 1598
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion:129 Resp: 146358

Ion	Ratio	Lower	Upper
129	100		
127	78.3	38.6	115.8





#61
1,2-Dibromoethane
Concen: 49.039 ug/l
RT: 11.465 min Scan# 16
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

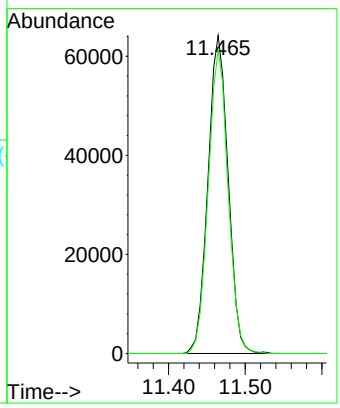
Tgt Ion:107 Resp: 117431

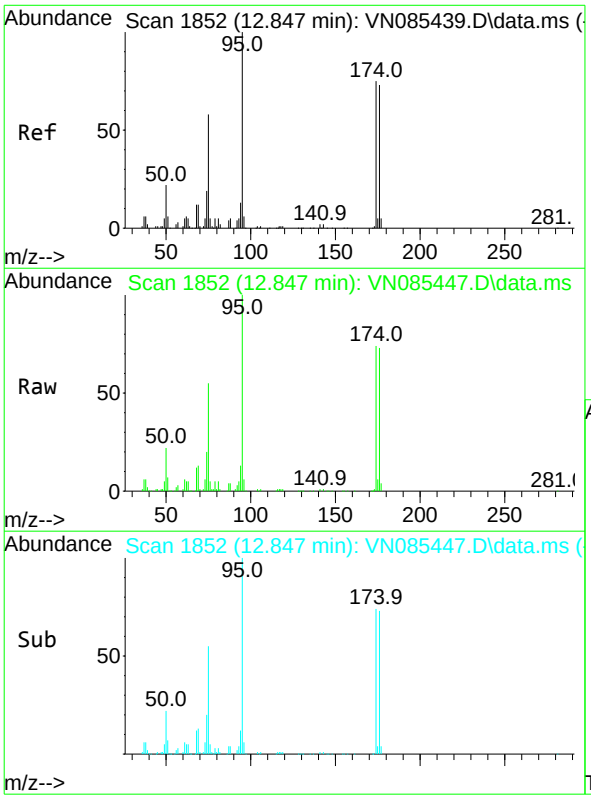
Ion	Ratio	Lower	Upper
107	100		
109	93.8	75.9	113.9

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

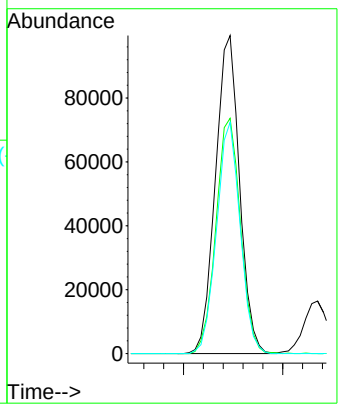


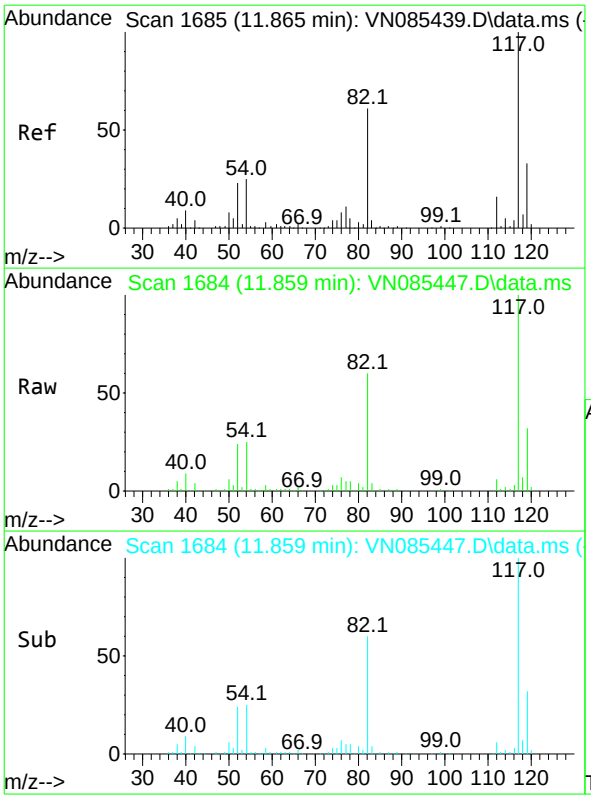


#62
4-Bromofluorobenzene
Concen: 55.673 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 95 Resp: 168340

Ion	Ratio	Lower	Upper
95	100		
174	75.1	0.0	145.0
176	70.8	0.0	142.4

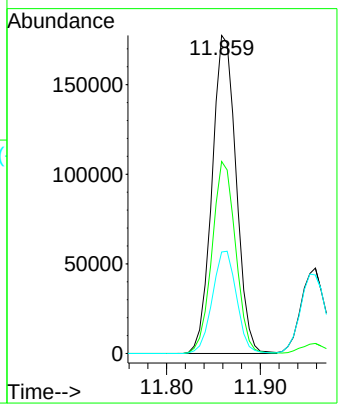




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.859 min Scan# 16
Delta R.T. -0.006 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion:117 Resp: 316952

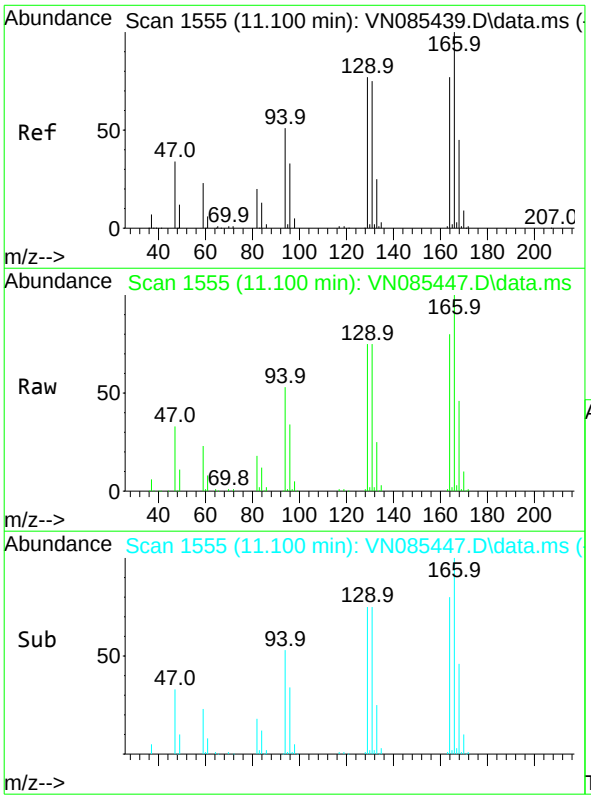
Ion	Ratio	Lower	Upper
117	100		
82	60.4	48.6	72.8
119	31.9	26.6	39.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

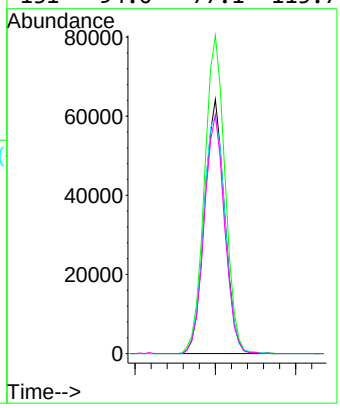
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

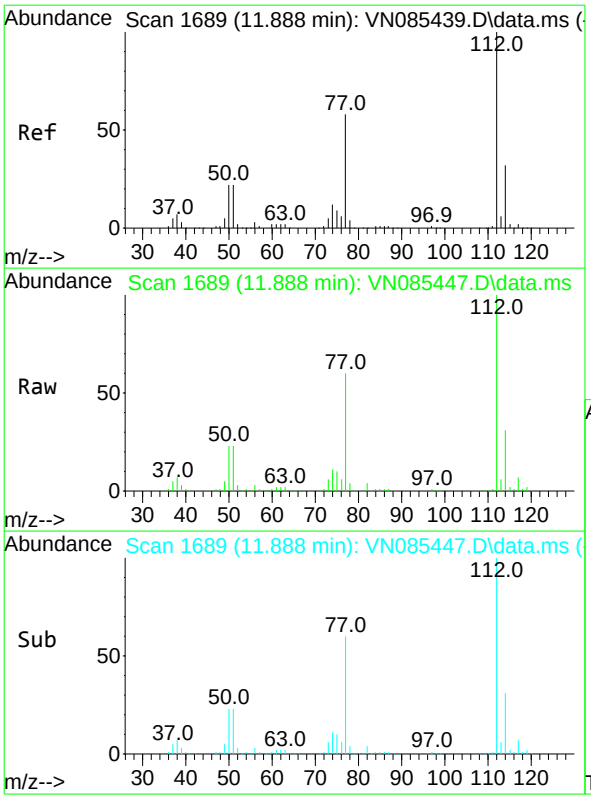


#64
Tetrachloroethene
Concen: 52.107 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion:164 Resp: 112592

Ion	Ratio	Lower	Upper
164	100		
166	125.2	103.4	155.2
129	93.6	79.2	118.8
131	94.0	77.1	115.7

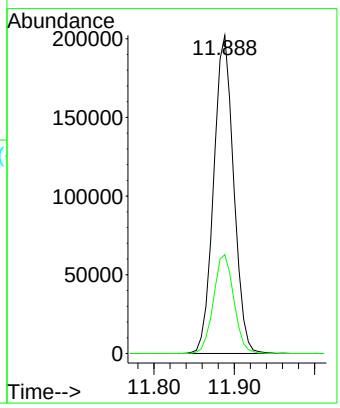




#65
Chlorobenzene
Concen: 50.257 ug/l
RT: 11.888 min Scan# 16
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion:112 Resp: 348954

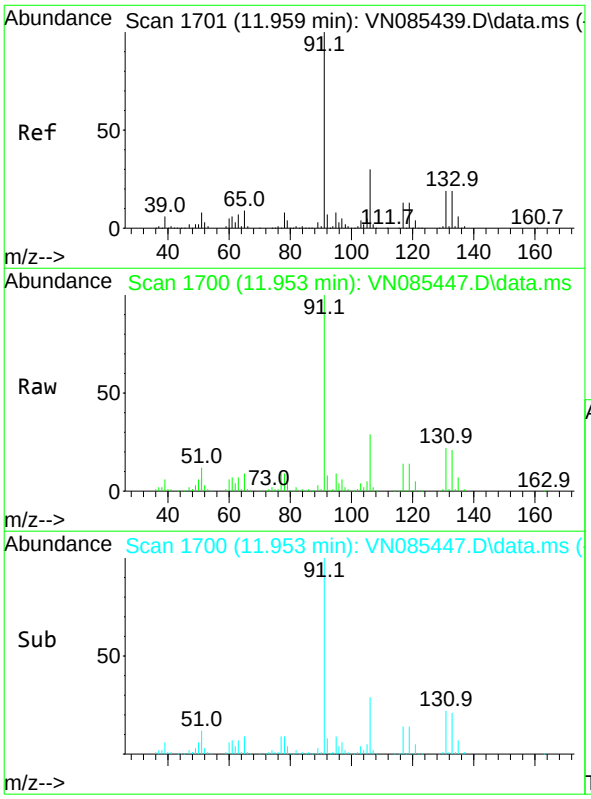
Ion	Ratio	Lower	Upper
112	100		
114	31.1	25.3	37.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

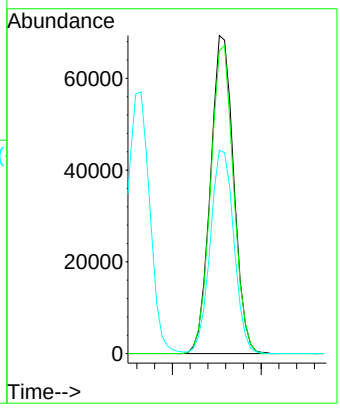
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

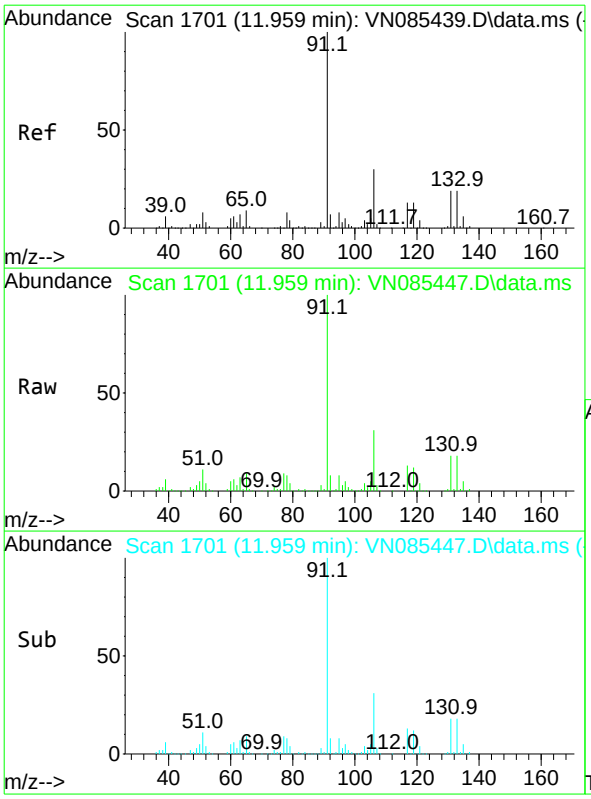


#66
1,1,1,2-Tetrachloroethane
Concen: 49.494 ug/l
RT: 11.953 min Scan# 1700
Delta R.T. -0.006 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion:131 Resp: 126127

Ion	Ratio	Lower	Upper
131	100		
133	95.6	47.4	142.3
119	65.1	33.1	99.5

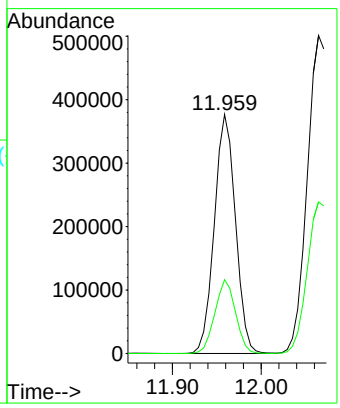




#67
Ethyl Benzene
Concen: 55.122 ug/l
RT: 11.959 min Scan# 17
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 91 Resp: 623373

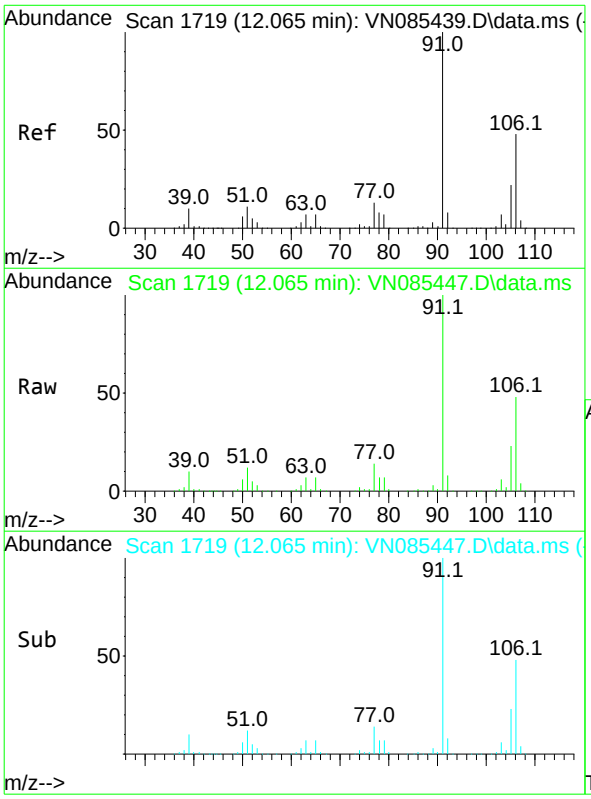
Ion	Ratio	Lower	Upper
91	100		
106	30.9	23.8	35.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

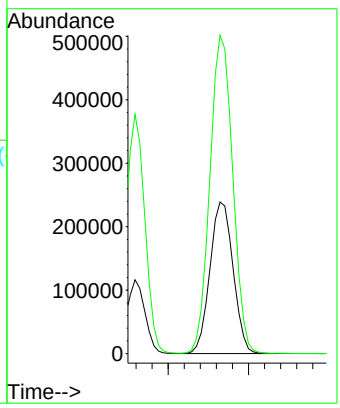
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

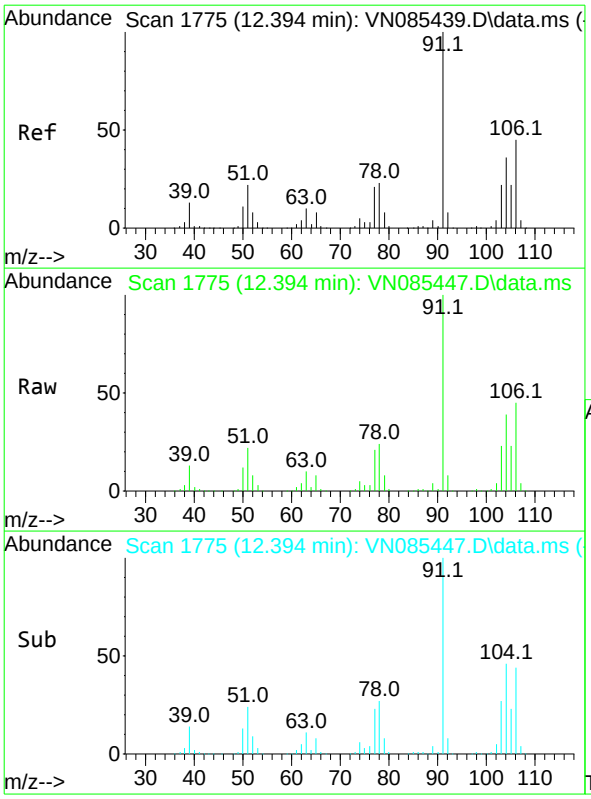


#68
m/p-Xylenes
Concen: 114.570 ug/l
RT: 12.065 min Scan# 1719
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion:106 Resp: 478857

Ion	Ratio	Lower	Upper
106	100		
91	207.2	167.7	251.5

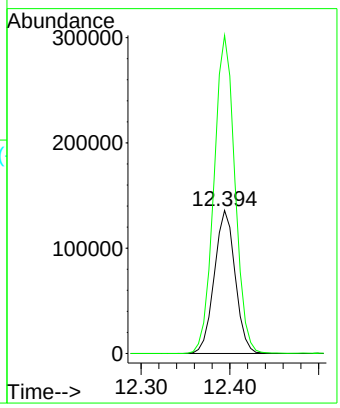




#69
o-Xylene
Concen: 55.481 ug/l
RT: 12.394 min Scan# 17
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion:106 Resp: 221609

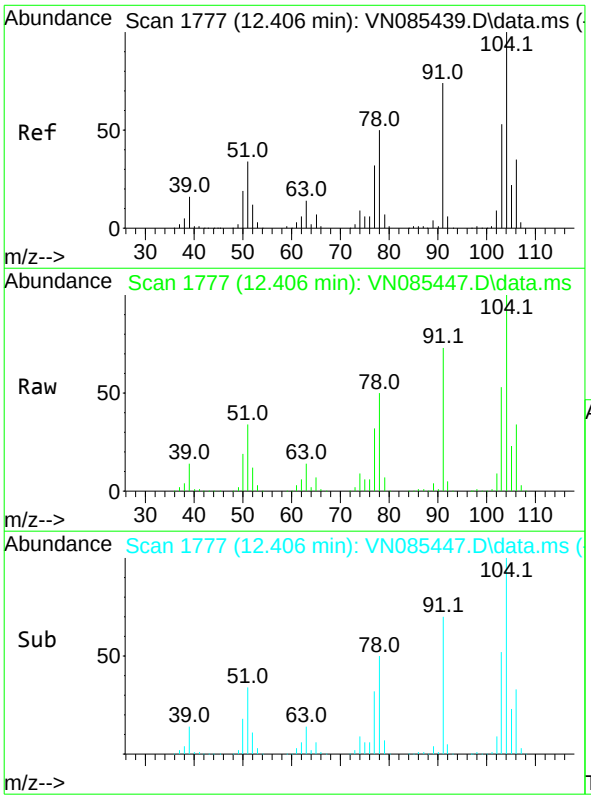
Ion	Ratio	Lower	Upper
106	100		
91	223.4	110.4	331.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

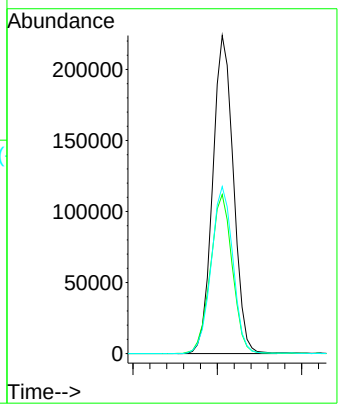
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

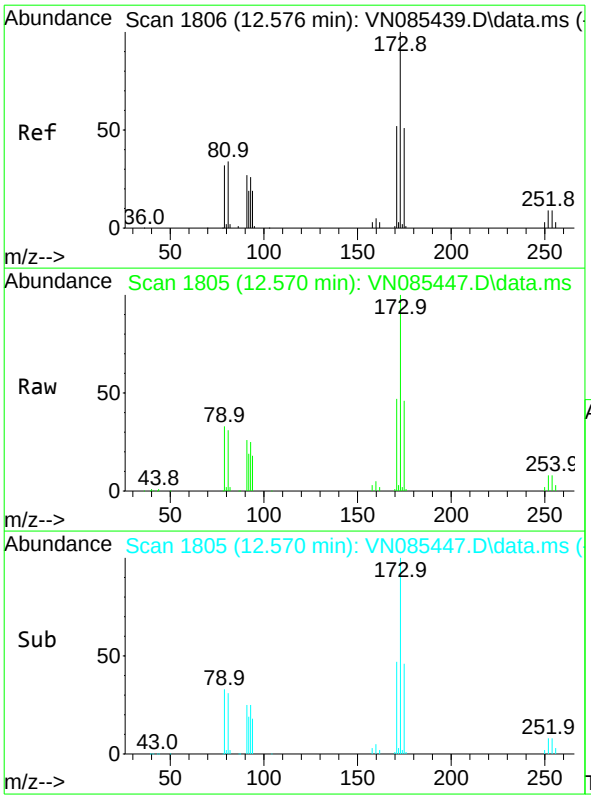


#70
Styrene
Concen: 57.933 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion:104 Resp: 382963

Ion	Ratio	Lower	Upper
104	100		
78	52.8	42.5	63.7
103	55.0	43.8	65.8

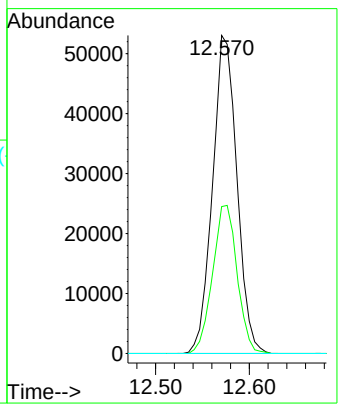




#71
Bromoform
Concen: 52.493 ug/l
RT: 12.570 min Scan# 18
Delta R.T. -0.006 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion:173 Resp: 95715

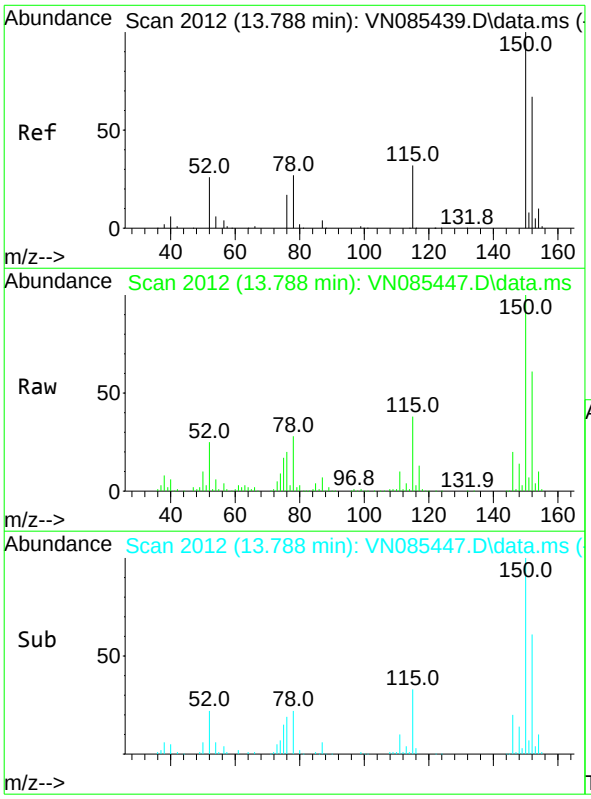
Ion	Ratio	Lower	Upper
173	100		
175	47.0	24.4	73.2
254	0.0	0.0	0.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

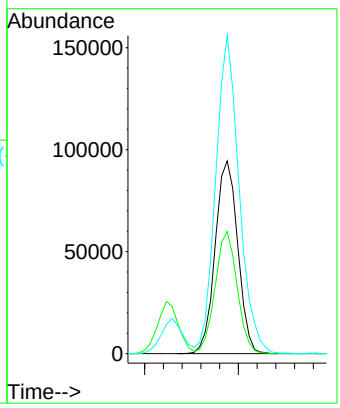
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

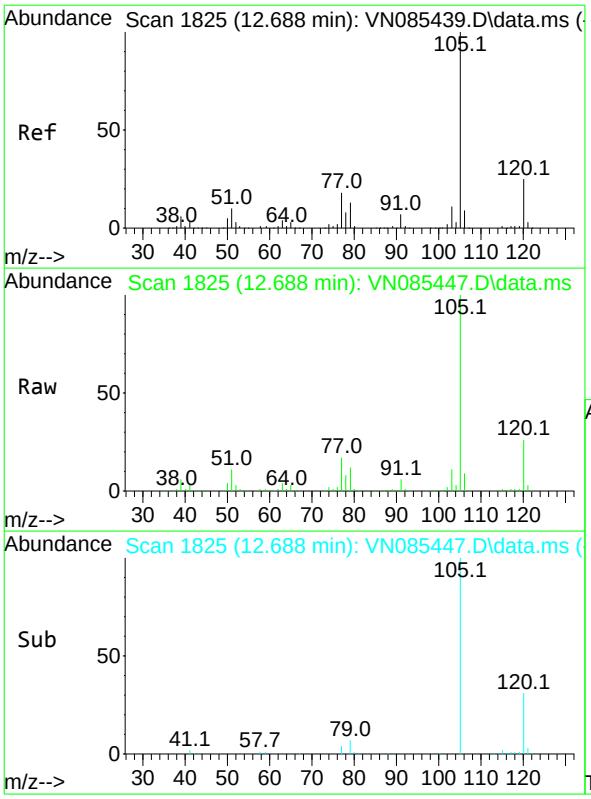


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion:152 Resp: 158347

Ion	Ratio	Lower	Upper
152	100		
115	61.8	31.1	93.3
150	171.2	0.0	343.6

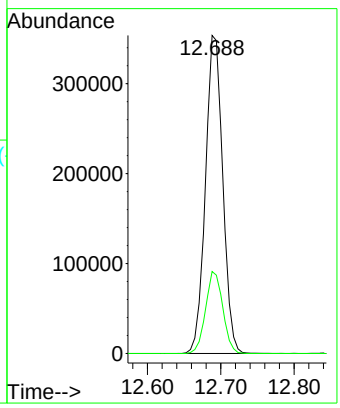




#73
Isopropylbenzene
Concen: 54.261 ug/l
RT: 12.688 min Scan# 18
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion:105 Resp: 579887

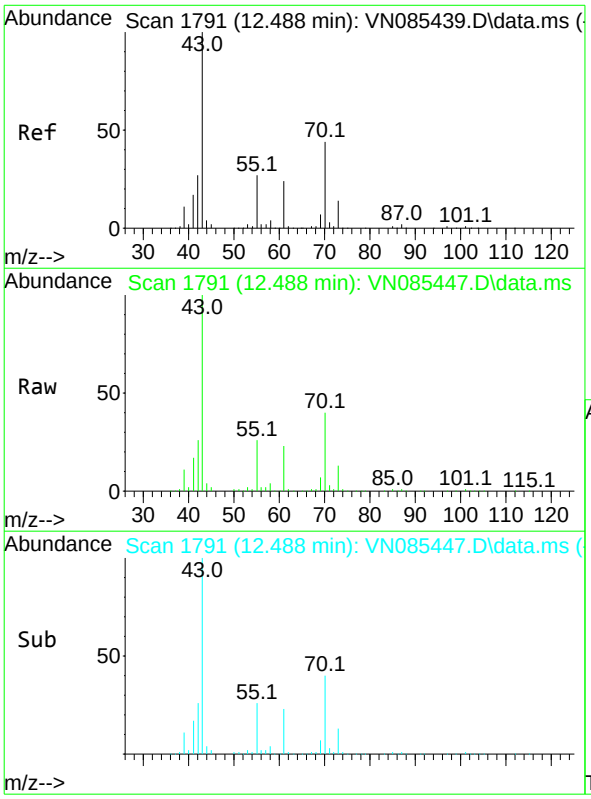
Ion	Ratio	Lower	Upper
105	100		
120	25.6	12.8	38.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

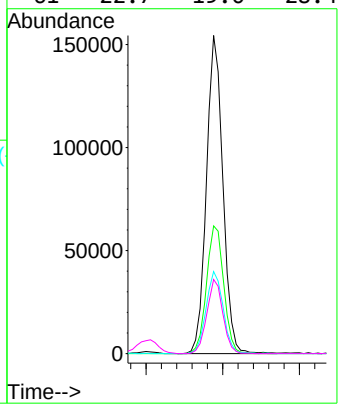
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

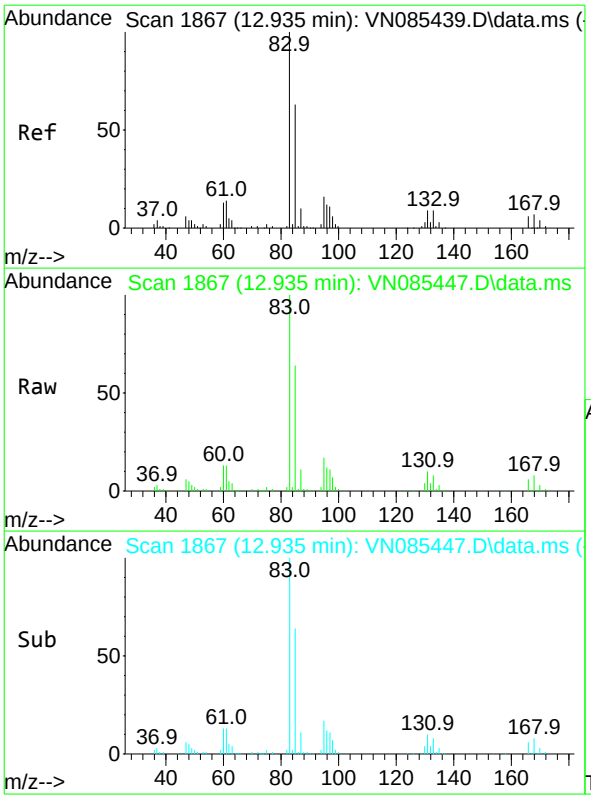


#74
N-amyl acetate
Concen: 47.841 ug/l
RT: 12.488 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 43 Resp: 229808

Ion	Ratio	Lower	Upper
43	100		
70	42.0	34.0	51.0
55	26.8	21.4	32.2
61	22.7	19.0	28.4

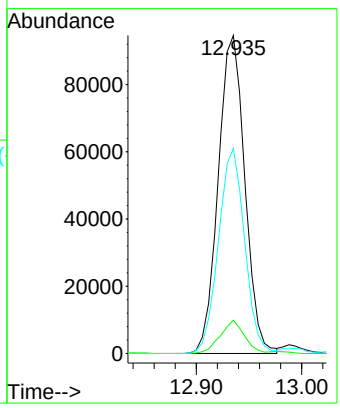




#75
1,1,2,2-Tetrachloroethane
Concen: 43.898 ug/l
RT: 12.935 min Scan# 18
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 83 Resp: 165720

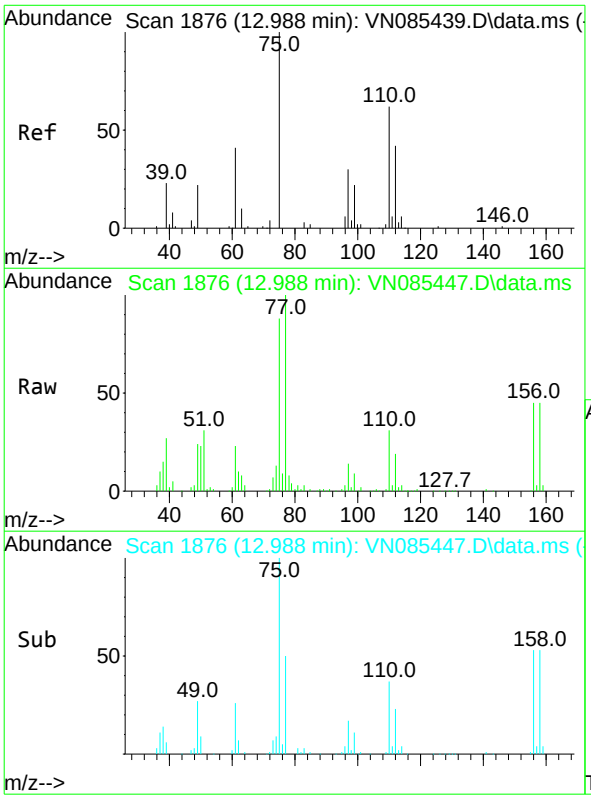
Ion	Ratio	Lower	Upper
83	100		
131	9.6	4.8	14.4
85	63.6	32.2	96.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

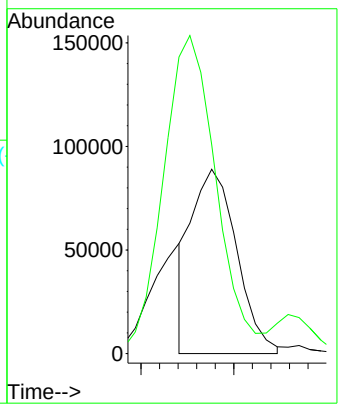
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

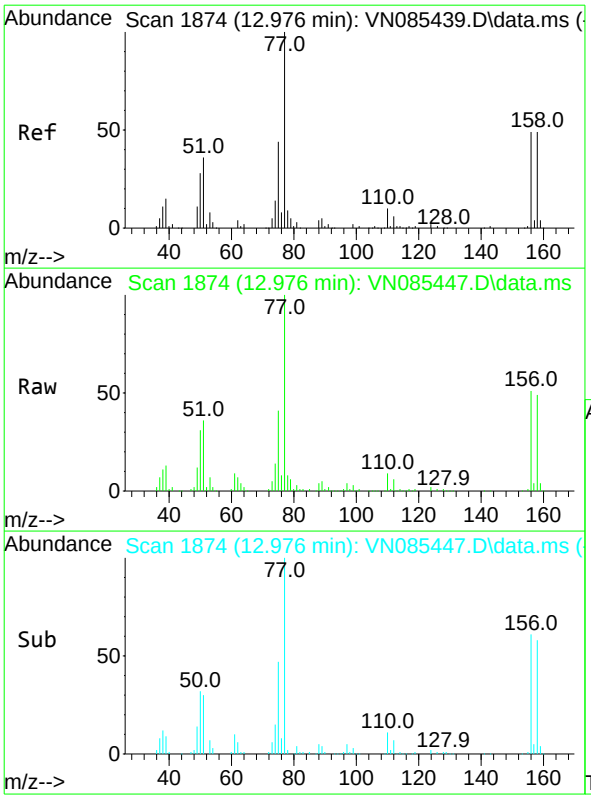


#76
1,2,3-Trichloropropane
Concen: 46.662 ug/l m
RT: 12.988 min Scan# 1876
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 75 Resp: 150178

Ion	Ratio	Lower	Upper
75	100		
77	201.4	109.7	329.2

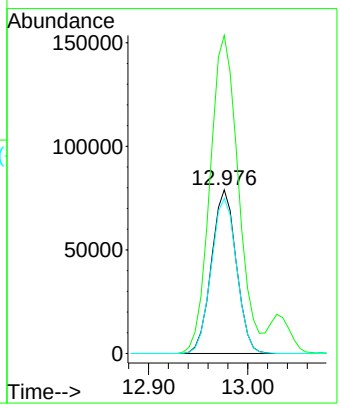




#77
Bromobenzene
Concen: 49.115 ug/l
RT: 12.976 min Scan# 18
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion:156 Resp: 137136

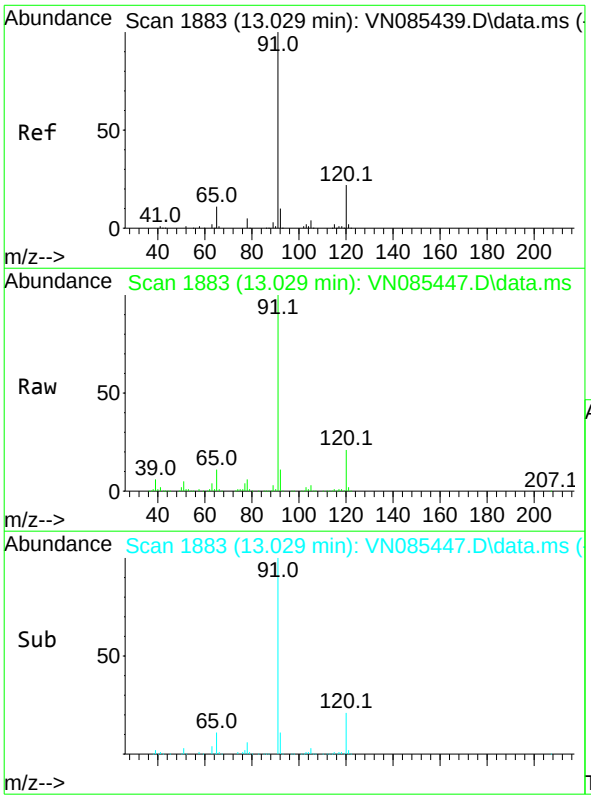
Ion	Ratio	Lower	Upper
156	100		
77	220.6	114.1	342.4
158	97.1	48.9	146.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

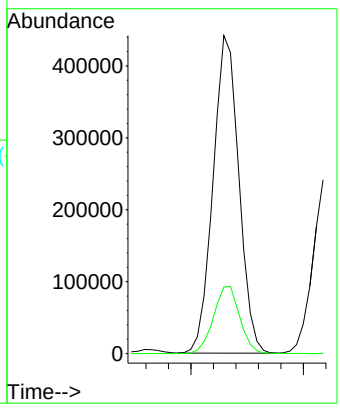
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

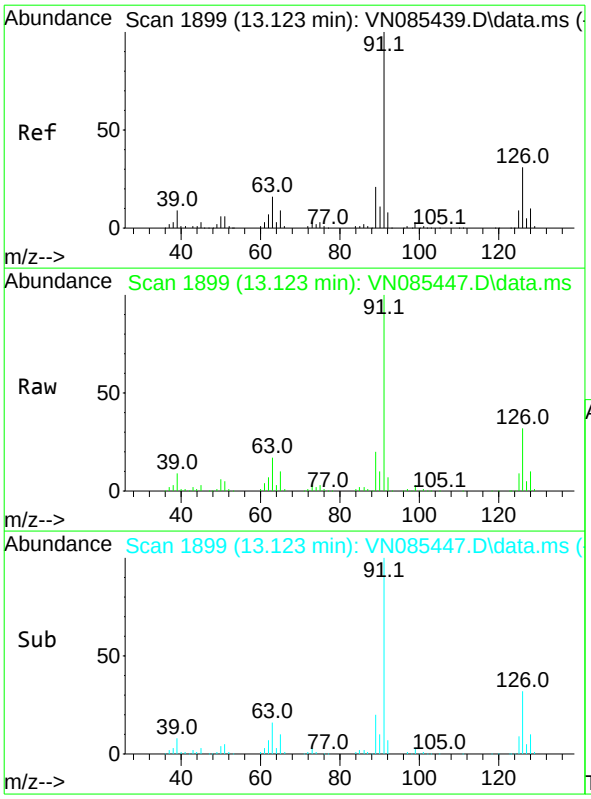


#78
n-propylbenzene
Concen: 55.640 ug/l
RT: 13.029 min Scan# 1883
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 91 Resp: 703936

Ion	Ratio	Lower	Upper
91	100		
120	21.5	10.9	32.6

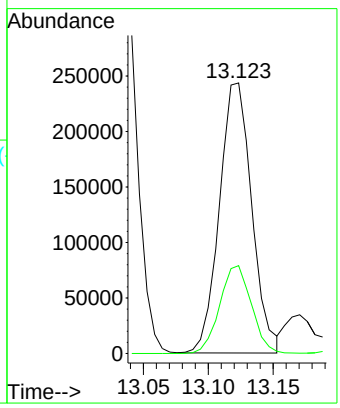




#79
2-Chlorotoluene
Concen: 51.665 ug/l
RT: 13.123 min Scan# 18
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 91 Resp: 423036

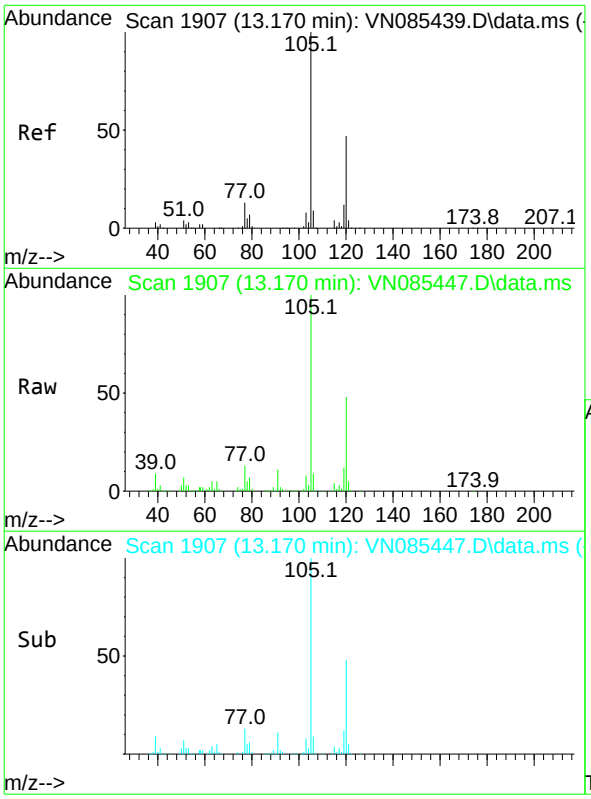
Ion	Ratio	Lower	Upper
91	100		
126	31.9	15.7	47.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

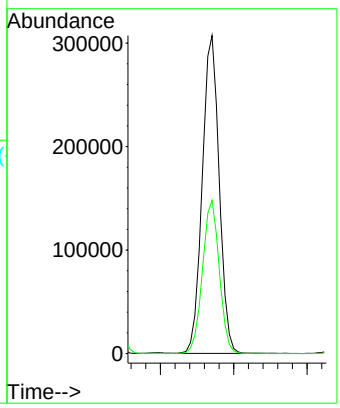
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

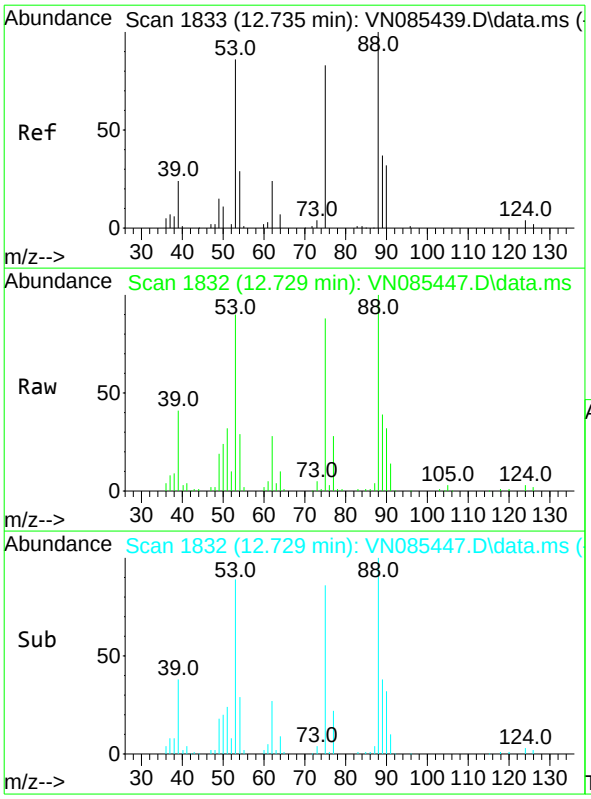


#80
1,3,5-Trimethylbenzene
Concen: 55.763 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion:105 Resp: 492256

Ion	Ratio	Lower	Upper
105	100		
120	47.9	23.9	71.7

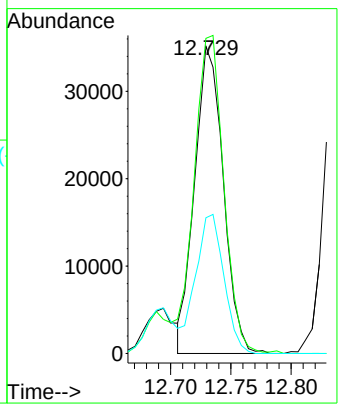




#81
trans-1,4-Dichloro-2-butene
Concen: 48.853 ug/l
RT: 12.729 min Scan# 18
Delta R.T. -0.006 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 75 Resp: 58114

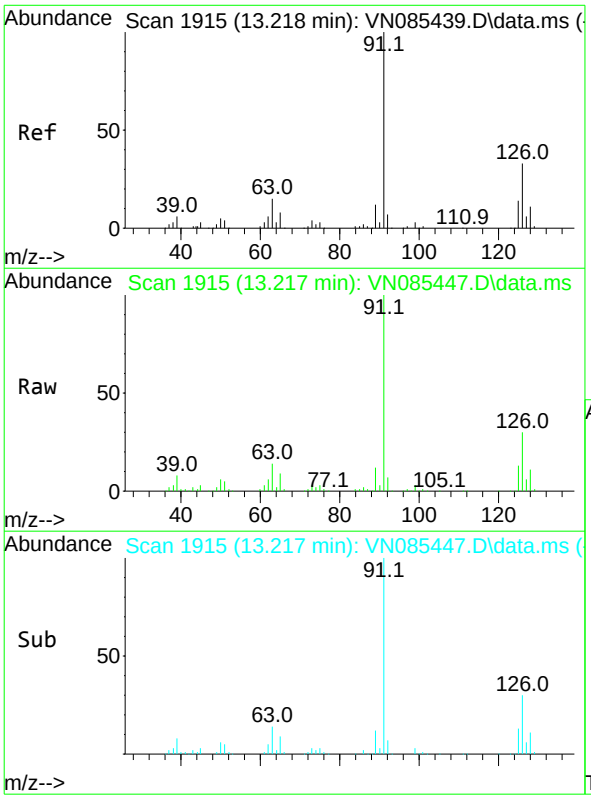
Ion	Ratio	Lower	Upper
75	100		
53	108.1	95.6	143.4
89	45.1	37.0	55.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

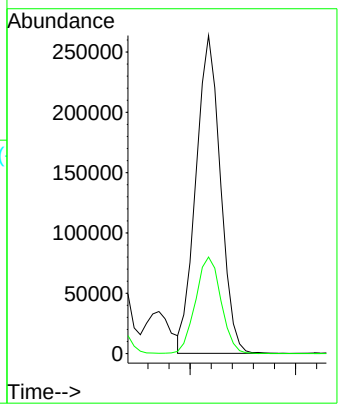
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

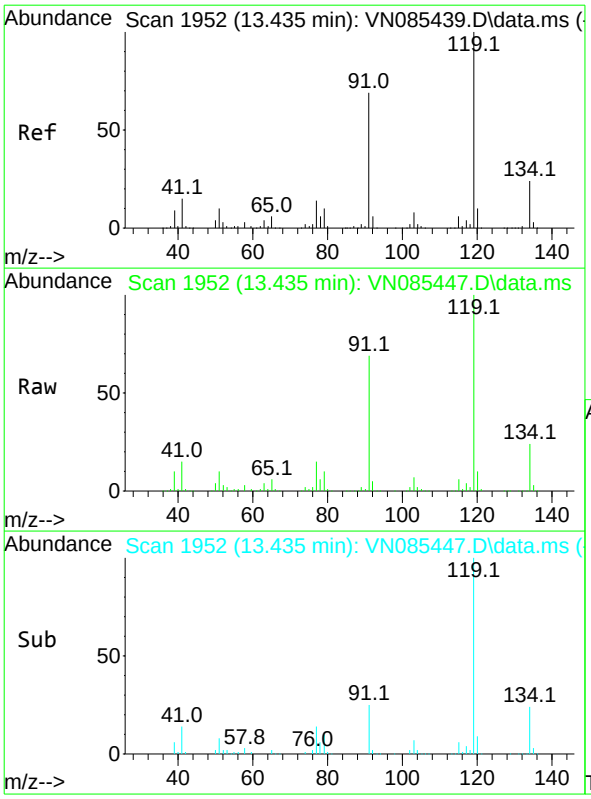


#82
4-Chlorotoluene
Concen: 52.164 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 91 Resp: 425288

Ion	Ratio	Lower	Upper
91	100		
126	31.6	15.9	47.7

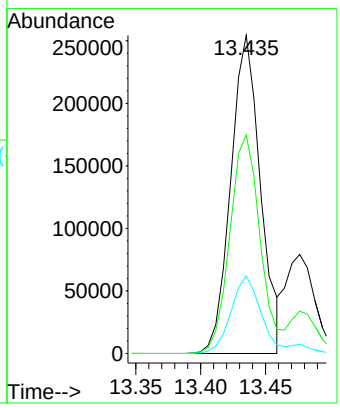




#83
tert-Butylbenzene
Concen: 54.680 ug/l
RT: 13.435 min Scan# 19
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion:119 Resp: 405351

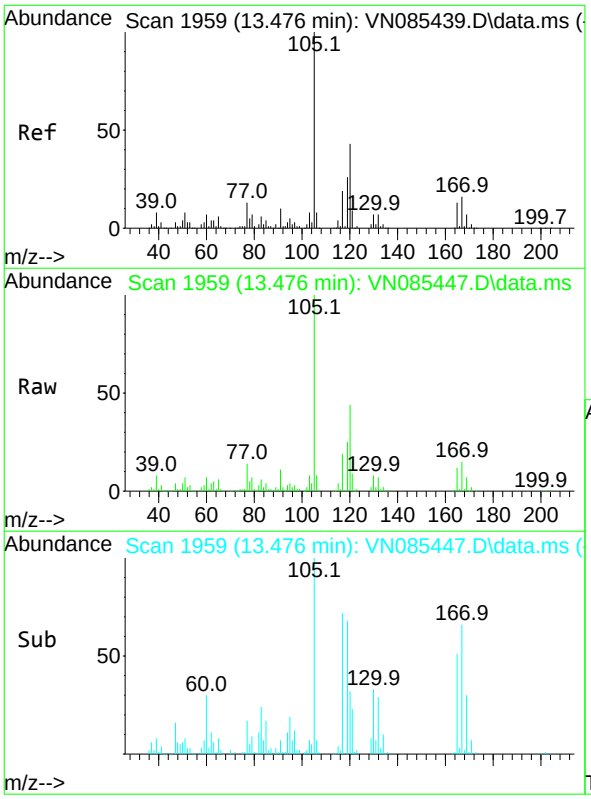
Ion	Ratio	Lower	Upper
119	100		
91	70.7	35.1	105.3
134	24.5	12.0	36.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

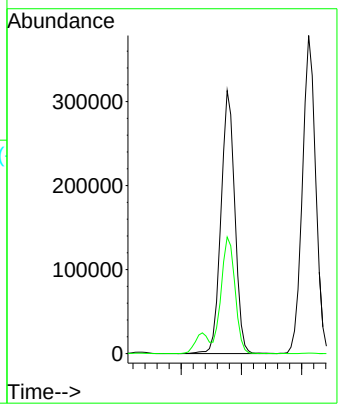
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

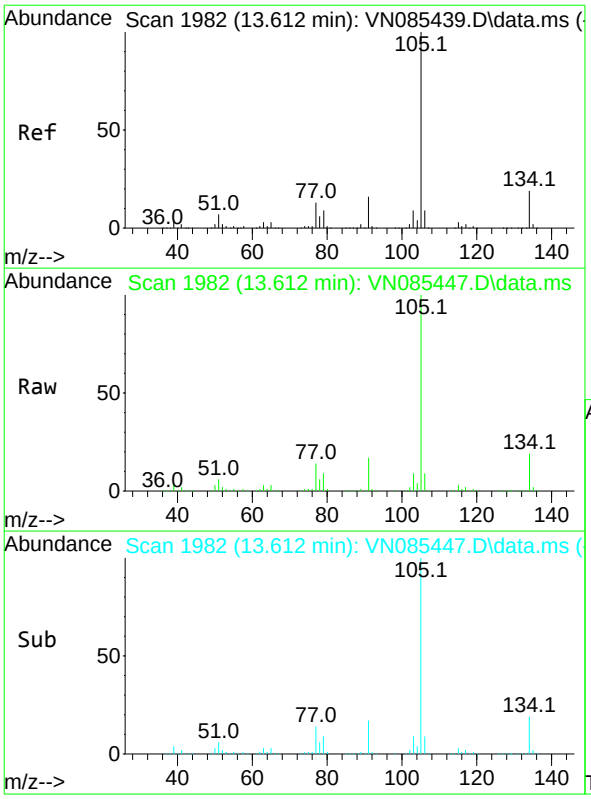


#84
1,2,4-Trimethylbenzene
Concen: 56.692 ug/l
RT: 13.476 min Scan# 1959
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion:105 Resp: 498787

Ion	Ratio	Lower	Upper
105	100		
120	45.0	21.6	65.0

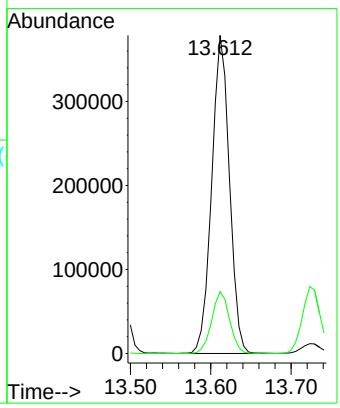




#85
sec-Butylbenzene
Concen: 56.497 ug/l
RT: 13.612 min Scan# 19
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion:105 Resp: 580478

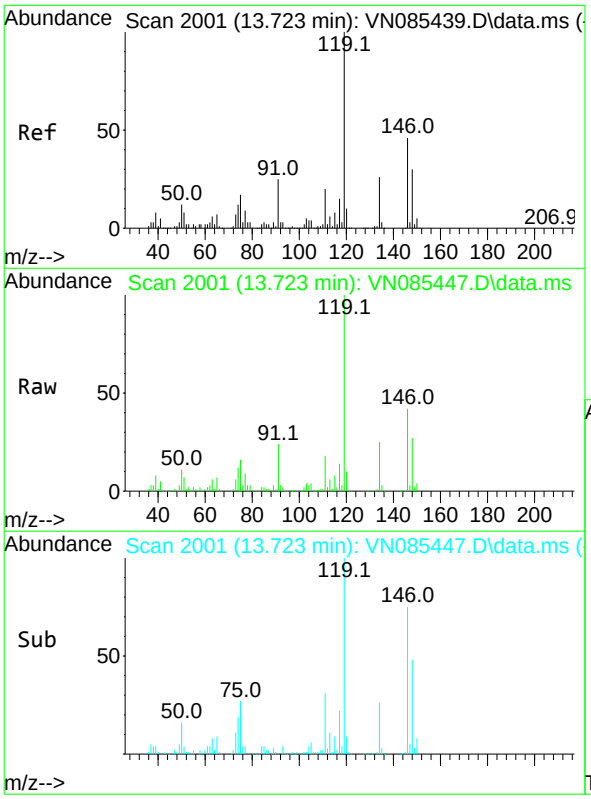
Ion	Ratio	Lower	Upper
105	100		
134	19.6	9.7	28.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

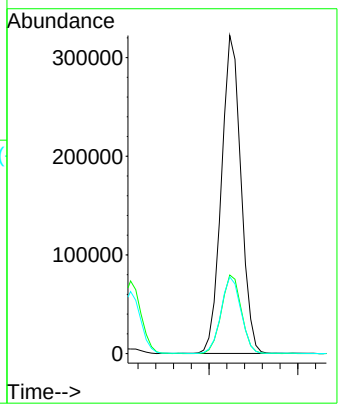
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

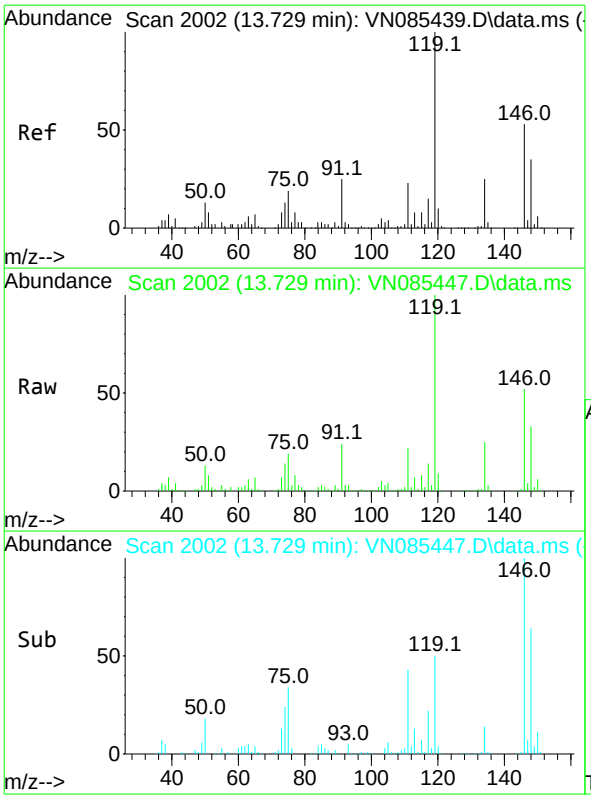


#86
p-Isopropyltoluene
Concen: 52.852 ug/l
RT: 13.723 min Scan# 2001
Delta R.T. 0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion:119 Resp: 492423

Ion	Ratio	Lower	Upper
119	100		
134	25.1	12.7	38.0
91	24.5	12.7	38.1

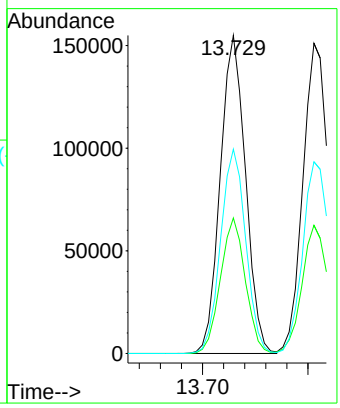




#87
1,3-Dichlorobenzene
Concen: 50.137 ug/l
RT: 13.729 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion:146 Resp: 257806

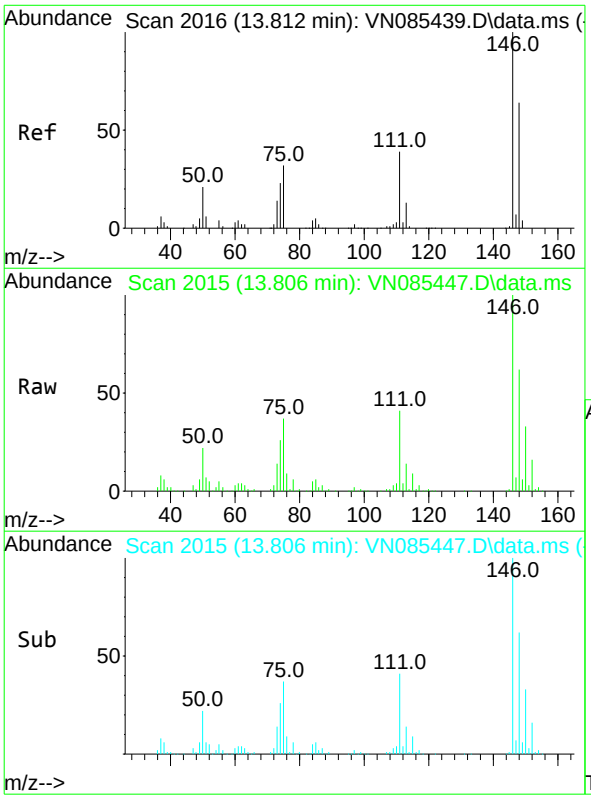
Ion	Ratio	Lower	Upper
146	100		
111	42.0	21.4	64.3
148	63.9	32.3	96.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

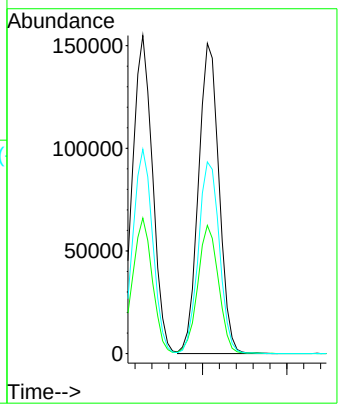
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

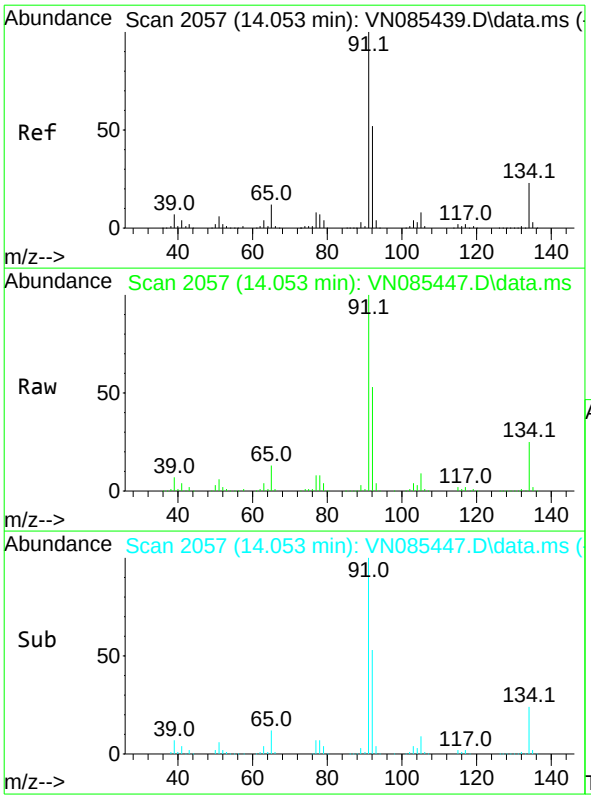


#88
1,4-Dichlorobenzene
Concen: 48.073 ug/l
RT: 13.806 min Scan# 2015
Delta R.T. -0.006 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion:146 Resp: 256221

Ion	Ratio	Lower	Upper
146	100		
111	41.8	21.3	63.7
148	63.5	32.4	97.0

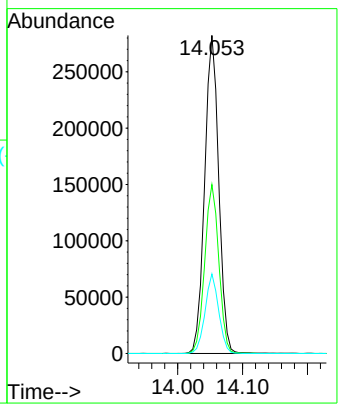




#89
n-Butylbenzene
Concen: 57.654 ug/l
RT: 14.053 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 91 Resp: 424966

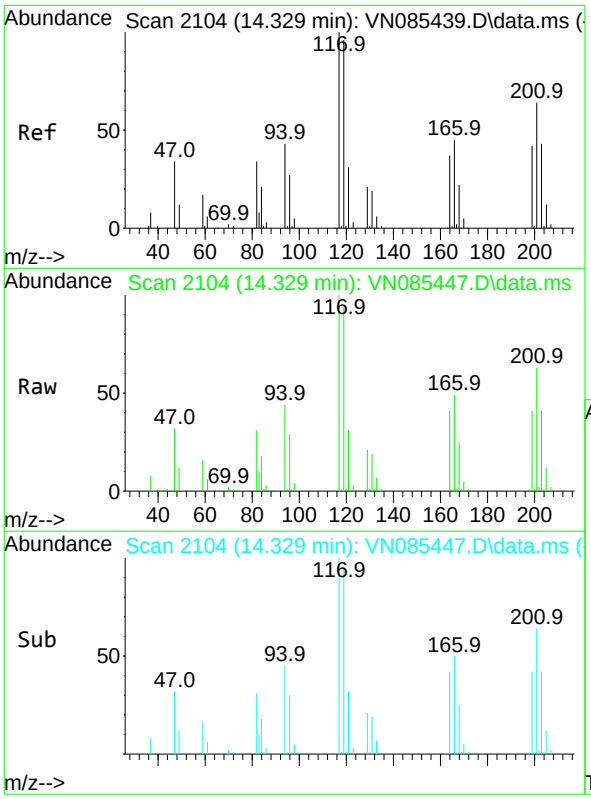
Ion	Ratio	Lower	Upper
91	100		
92	53.2	25.8	77.3
134	24.2	11.7	35.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

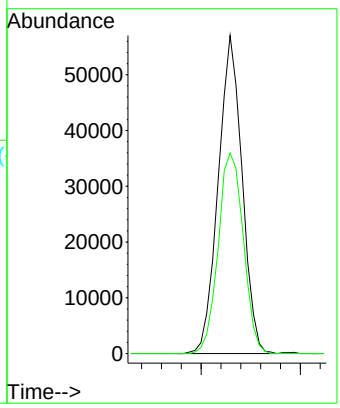
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

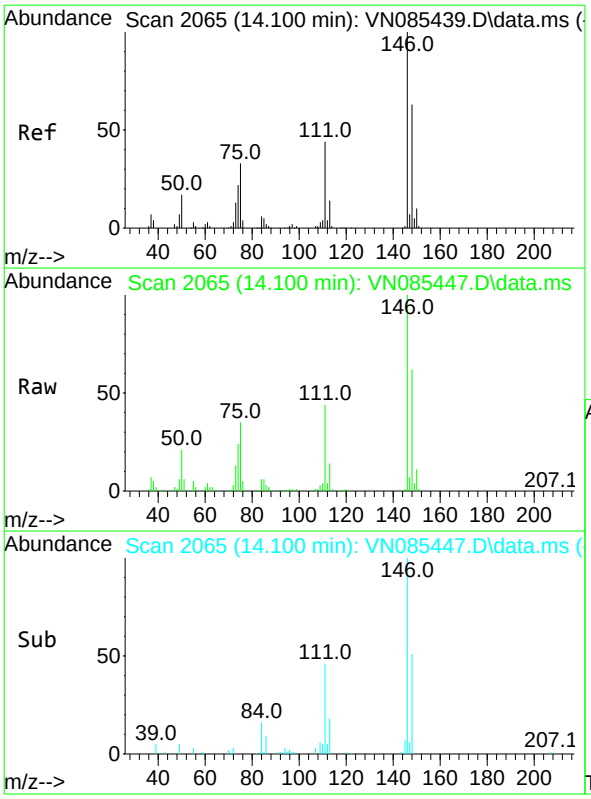


#90
Hexachloroethane
Concen: 48.675 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion:117 Resp: 95205

Ion	Ratio	Lower	Upper
117	100		
201	66.4	33.7	101.0

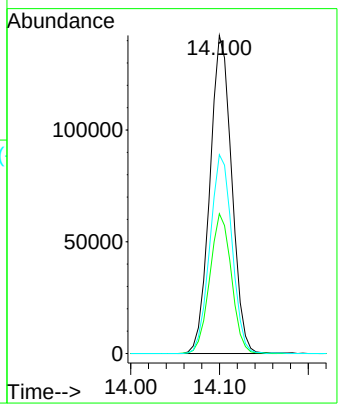




#91
1,2-Dichlorobenzene
Concen: 47.320 ug/l
RT: 14.100 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion:146 Resp: 242707

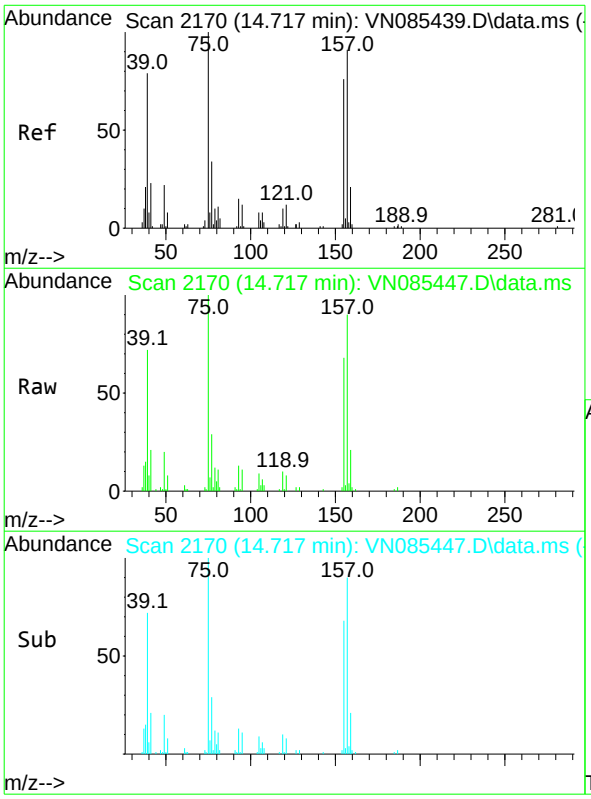
Ion	Ratio	Lower	Upper
146	100		
111	43.6	21.7	65.1
148	63.3	31.4	94.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

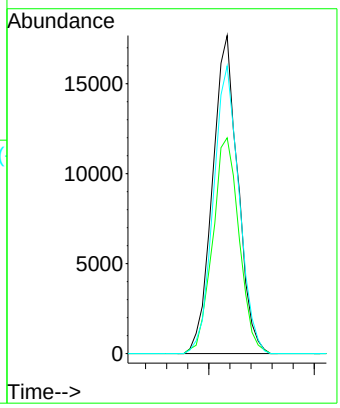
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

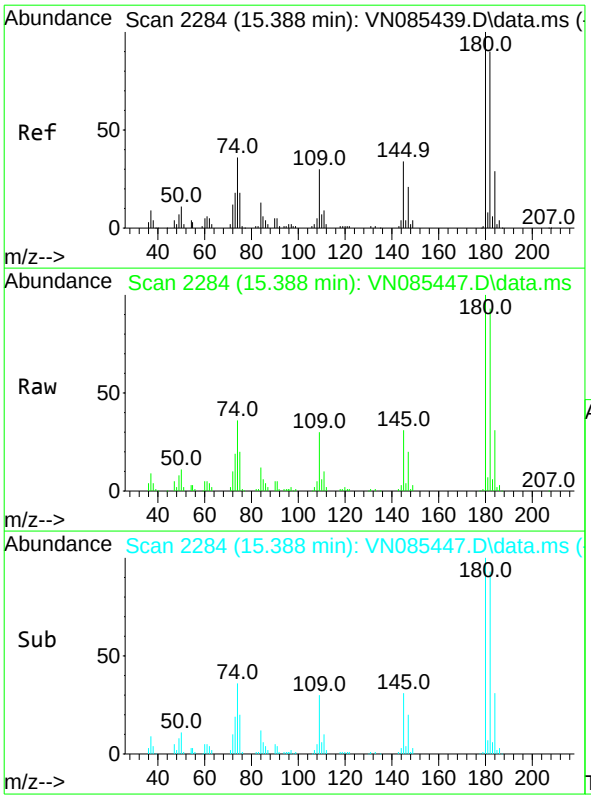


#92
1,2-Dibromo-3-Chloropropane
Concen: 42.906 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 75 Resp: 29578

Ion	Ratio	Lower	Upper
75	100		
155	70.6	36.4	109.2
157	91.5	45.4	136.1

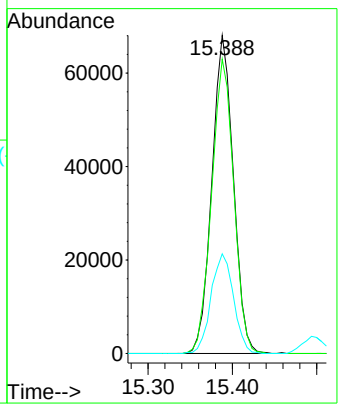




#93
1,2,4-Trichlorobenzene
Concen: 50.589 ug/l
RT: 15.388 min Scan# 22
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion:180 Resp: 120596

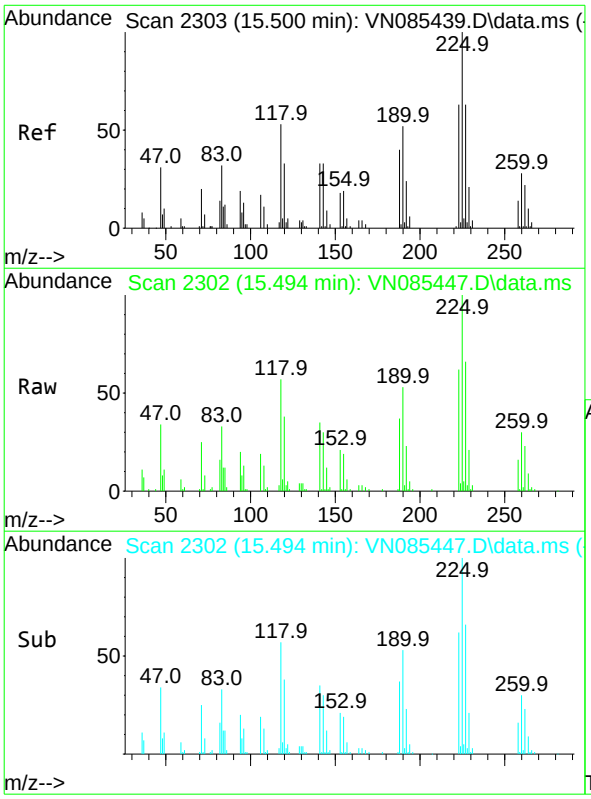
Ion	Ratio	Lower	Upper
180	100		
182	95.1	46.8	140.3
145	32.8	16.0	48.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

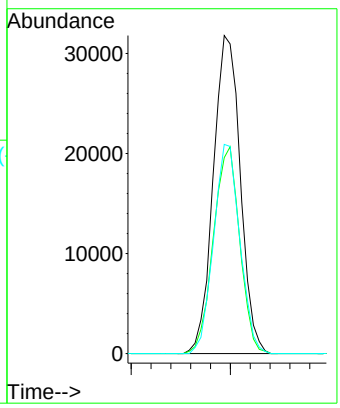
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

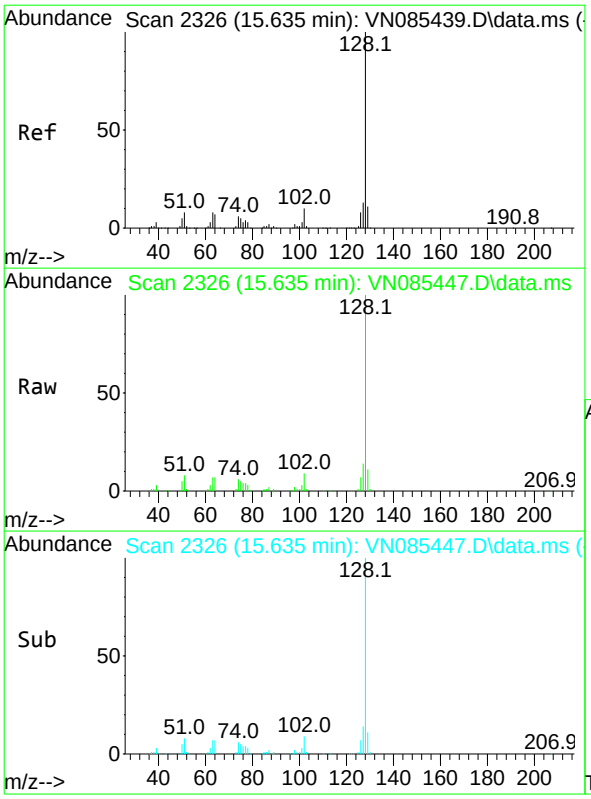


#94
Hexachlorobutadiene
Concen: 47.470 ug/l
RT: 15.494 min Scan# 2302
Delta R.T. -0.006 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion:225 Resp: 60079

Ion	Ratio	Lower	Upper
225	100		
223	63.2	30.7	92.1
227	63.9	30.9	92.5

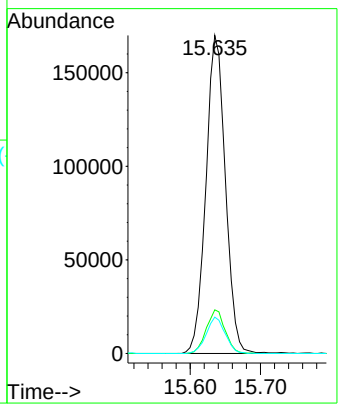




#95
Naphthalene
Concen: 46.012 ug/l
RT: 15.635 min Scan# 23
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion:128 Resp: 327305

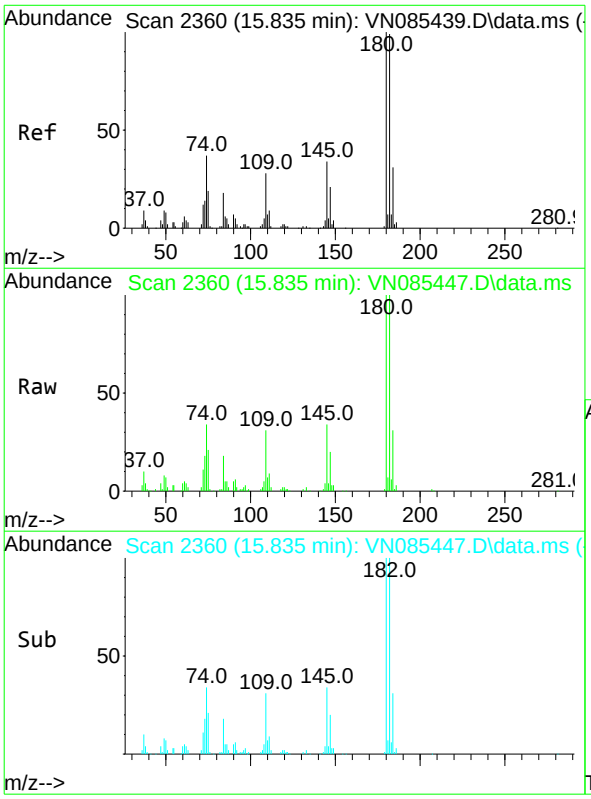
Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.6	16.0
129	11.1	8.8	13.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

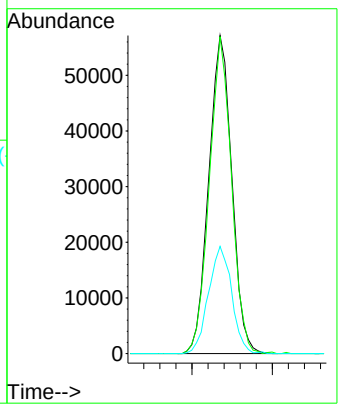
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#96
1,2,3-Trichlorobenzene
Concen: 47.236 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion:180 Resp: 113937

Ion	Ratio	Lower	Upper
180	100		
182	95.4	47.4	142.2
145	33.9	16.9	50.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085447.D
Acq On : 15 Jan 2025 09:03
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jan 16 00:51:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	109	0.00
2	T	Dichlorodifluoromethane	0.677	0.657	3.0	114	0.00
3	P	Chloromethane	0.733	0.674	8.0	109	0.00
4	C	Vinyl Chloride	0.737	0.696	5.6#	111	0.00
5	T	Bromomethane	0.445	0.401	9.9	105	0.00
6	T	Chloroethane	0.467	0.426	8.8	110	0.00
7	T	Trichlorofluoromethane	1.069	1.042	2.5	114	0.00
8	T	Diethyl Ether	0.369	0.338	8.4	103	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.602	0.600	0.3	121	0.00
10	T	Methyl Iodide	0.690	0.683	1.0	104	0.00
11	T	Tert butyl alcohol	0.092	0.069	25.0	81	0.00
12	CM	1,1-Dichloroethene	0.537	0.531	1.1#	109	0.00
13	T	Acrolein	0.126	0.120	4.8	94	0.00
14	T	Allyl chloride	0.871	0.831	4.6	108	0.00
15	T	Acrylonitrile	0.294	0.260	11.6	96	0.00
16	T	Acetone	0.261	0.230	11.9	100	0.00
17	T	Carbon Disulfide	1.652	1.522	7.9	113	0.00
18	T	Methyl Acetate	0.793	0.700	11.7	97	0.00
19	T	Methyl tert-butyl Ether	1.742	1.757	-0.9	103	0.00
20	T	Methylene Chloride	0.646	0.605	6.3	105	0.00
21	T	trans-1,2-Dichloroethene	0.573	0.562	1.9	111	0.00
22	T	Diisopropyl ether	1.933	1.966	-1.7	106	0.00
23	T	Vinyl Acetate	1.353	1.403	-3.7	103	0.00
24	P	1,1-Dichloroethane	1.178	1.146	2.7	107	0.00
25	T	2-Butanone	0.384	0.337	12.2	95	0.00
26	T	2,2-Dichloropropane	0.953	1.028	-7.9	120	0.00
27	T	cis-1,2-Dichloroethene	0.675	0.674	0.1	108	0.00
28	T	Bromochloromethane	0.548	0.540	1.5	109	0.00
29	T	Tetrahydrofuran	0.243	0.225	7.4	94	0.00
30	C	Chloroform	1.218	1.163	4.5#	108	0.00
31	T	Cyclohexane	1.024	0.942	8.0	117	0.00
32	T	1,1,1-Trichloroethane	1.068	1.035	3.1	112	0.00
33	S	1,2-Dichloroethane-d4	0.807	0.819	-1.5	108	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	106	0.00
35	S	Dibromofluoromethane	0.347	0.369	-6.3	109	0.00
36	T	1,1-Dichloropropene	0.487	0.503	-3.3	115	0.00
37	T	Ethyl Acetate	0.491	0.440	10.4	95	0.00
38	T	Carbon Tetrachloride	0.557	0.563	-1.1	112	0.00
39	T	Methylcyclohexane	0.457	0.528	-15.5	120	0.00
40	TM	Benzene	1.463	1.504	-2.8	110	0.00
41	T	Methacrylonitrile	0.256	0.253	1.2	99	0.00
42	TM	1,2-Dichloroethane	0.551	0.550	0.2	106	0.00
43	T	Isopropyl Acetate	0.787	0.743	5.6	96	0.00
44	TM	Trichloroethene	0.341	0.345	-1.2	113	0.00
45	C	1,2-Dichloropropane	0.374	0.377	-0.8#	107	0.00
46	T	Dibromomethane	0.270	0.264	2.2	104	0.00
47	T	Bromodichloromethane	0.549	0.568	-3.5	107	0.00
48	T	Methyl methacrylate	0.354	0.361	-2.0	97	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085447.D
Acq On : 15 Jan 2025 09:03
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jan 16 00:51:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.006	0.005	16.7	87	0.00
50	S	Toluene-d8	1.232	1.356	-10.1	113	0.00
51	T	4-Methyl-2-Pentanone	0.457	0.440	3.7	94	0.00
52	CM	Toluene	0.848	0.916	-8.0#	111	0.00
53	T	t-1,3-Dichloropropene	0.519	0.555	-6.9	106	0.00
54	T	cis-1,3-Dichloropropene	0.554	0.594	-7.2	107	0.00
55	T	1,1,2-Trichloroethane	0.335	0.337	-0.6	105	0.00
56	T	Ethyl methacrylate	0.469	0.515	-9.8	100	0.00
57	T	1,3-Dichloropropane	0.583	0.591	-1.4	104	0.00
58	T	2-Chloroethyl Vinyl ether	0.213	0.232	-8.9	102	0.00
59	T	2-Hexanone	0.321	0.312	2.8	92	0.00
60	T	Dibromochloromethane	0.405	0.408	-0.7	104	0.00
61	T	1,2-Dibromoethane	0.334	0.327	2.1	103	0.00
62	S	4-Bromofluorobenzene	0.422	0.469	-11.1	110	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	107	0.00
64	T	Tetrachloroethene	0.341	0.355	-4.1	117	0.00
65	PM	Chlorobenzene	1.095	1.101	-0.5	109	0.00
66	T	1,1,1,2-Tetrachloroethane	0.402	0.398	1.0	108	0.00
67	C	Ethyl Benzene	1.784	1.967	-10.3#	112	0.00
68	T	m/p-Xylenes	0.659	0.755	-14.6	114	0.00
69	T	o-Xylene	0.630	0.699	-11.0	109	0.00
70	T	Styrene	1.043	1.208	-15.8	110	0.00
71	P	Bromoform	0.288	0.302	-4.9	104	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	108	0.00
73	T	Isopropylbenzene	3.375	3.662	-8.5	115	0.00
74	T	N-amyl acetate	1.517	1.451	4.4	97	0.00
75	P	1,1,2,2-Tetrachloroethane	1.192	1.047	12.2	99	0.00
76	T	1,2,3-Trichloropropane	1.016	0.948	6.7	115	0.00
77	T	Bromobenzene	0.882	0.866	1.8	109	0.00
78	T	n-propylbenzene	3.995	4.446	-11.3	116	0.00
79	T	2-Chlorotoluene	2.586	2.672	-3.3	112	0.00
80	T	1,3,5-Trimethylbenzene	2.787	3.109	-11.6	114	0.00
81	T	trans-1,4-Dichloro-2-butene	0.376	0.367	2.4	102	0.00
82	T	4-Chlorotoluene	2.574	2.686	-4.4	112	0.00
83	T	tert-Butylbenzene	2.341	2.560	-9.4	113	0.00
84	T	1,2,4-Trimethylbenzene	2.778	3.150	-13.4	113	0.00
85	T	sec-Butylbenzene	3.244	3.666	-13.0	116	0.00
86	T	p-Isopropyltoluene	2.631	3.110	-18.2	117	0.00
87	T	1,3-Dichlorobenzene	1.624	1.628	-0.2	112	0.00
88	T	1,4-Dichlorobenzene	1.683	1.618	3.9	112	0.00
89	T	n-Butylbenzene	2.327	2.684	-15.3	117	0.00
90	T	Hexachloroethane	0.618	0.601	2.8	113	0.00
91	T	1,2-Dichlorobenzene	1.620	1.533	5.4	106	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.218	0.187	14.2	91	0.00
93	T	1,2,4-Trichlorobenzene	0.753	0.762	-1.2	105	0.00
94	T	Hexachlorobutadiene	0.400	0.379	5.3	112	0.00
95	T	Naphthalene	2.246	2.067	8.0	90	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085447.D
Acq On : 15 Jan 2025 09:03
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jan 16 00:51:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.762	0.720	5.5	99	0.00

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085447.D
Acq On : 15 Jan 2025 09:03
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jan 16 00:51:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	109	0.00
2	T	Dichlorodifluoromethane	50.000	48.525	3.0	114	0.00
3	P	Chloromethane	50.000	45.992	8.0	109	0.00
4	C	Vinyl Chloride	50.000	47.239	5.5#	111	0.00
5	T	Bromomethane	50.000	45.067	9.9	105	0.00
6	T	Chloroethane	50.000	45.648	8.7	110	0.00
7	T	Trichlorofluoromethane	50.000	48.720	2.6	114	0.00
8	T	Diethyl Ether	50.000	45.767	8.5	103	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	49.808	0.4	121	0.00
10	T	Methyl Iodide	50.000	49.511	1.0	104	0.00
11	T	Tert butyl alcohol	250.000	185.463	25.8#	81	0.00
12	CM	1,1-Dichloroethene	50.000	49.459	1.1#	109	0.00
13	T	Acrolein	250.000	238.713	4.5	94	0.00
14	T	Allyl chloride	50.000	47.714	4.6	108	0.00
15	T	Acrylonitrile	250.000	221.624	11.4	96	0.00
16	T	Acetone	250.000	220.081	12.0	100	0.00
17	T	Carbon Disulfide	50.000	46.066	7.9	113	0.00
18	T	Methyl Acetate	50.000	44.146	11.7	97	0.00
19	T	Methyl tert-butyl Ether	50.000	50.410	-0.8	103	0.00
20	T	Methylene Chloride	50.000	46.863	6.3	105	0.00
21	T	trans-1,2-Dichloroethene	50.000	49.008	2.0	111	0.00
22	T	Diisopropyl ether	50.000	50.865	-1.7	106	0.00
23	T	Vinyl Acetate	250.000	259.270	-3.7	103	0.00
24	P	1,1-Dichloroethane	50.000	48.606	2.8	107	0.00
25	T	2-Butanone	250.000	219.497	12.2	95	0.00
26	T	2,2-Dichloropropane	50.000	53.956	-7.9	120	0.00
27	T	cis-1,2-Dichloroethene	50.000	49.893	0.2	108	0.00
28	T	Bromochloromethane	50.000	49.226	1.5	109	0.00
29	T	Tetrahydrofuran	250.000	231.013	7.6	94	0.00
30	C	Chloroform	50.000	47.743	4.5#	108	0.00
31	T	Cyclohexane	50.000	45.962	8.1	117	0.00
32	T	1,1,1-Trichloroethane	50.000	48.453	3.1	112	0.00
33	S	1,2-Dichloroethane-d4	50.000	50.745	-1.5	108	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	106	0.00
35	S	Dibromofluoromethane	50.000	53.211	-6.4	109	0.00
36	T	1,1-Dichloropropene	50.000	51.631	-3.3	115	0.00
37	T	Ethyl Acetate	50.000	44.802	10.4	95	0.00
38	T	Carbon Tetrachloride	50.000	50.466	-0.9	112	0.00
39	T	Methylcyclohexane	50.000	57.732	-15.5	120	0.00
40	TM	Benzene	50.000	51.417	-2.8	110	0.00
41	T	Methacrylonitrile	50.000	49.387	1.2	99	0.00
42	TM	1,2-Dichloroethane	50.000	49.881	0.2	106	0.00
43	T	Isopropyl Acetate	50.000	47.153	5.7	96	0.00
44	TM	Trichloroethene	50.000	50.700	-1.4	113	0.00
45	C	1,2-Dichloropropane	50.000	50.468	-0.9#	107	0.00
46	T	Dibromomethane	50.000	48.873	2.3	104	0.00
47	T	Bromodichloromethane	50.000	51.671	-3.3	107	0.00
48	T	Methyl methacrylate	50.000	50.945	-1.9	97	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085447.D
Acq On : 15 Jan 2025 09:03
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jan 16 00:51:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	873.742	12.6	87	0.00
50	S	Toluene-d8	50.000	55.032	-10.1	113	0.00
51	T	4-Methyl-2-Pentanone	250.000	240.885	3.6	94	0.00
52	CM	Toluene	50.000	54.029	-8.1#	111	0.00
53	T	t-1,3-Dichloropropene	50.000	53.447	-6.9	106	0.00
54	T	cis-1,3-Dichloropropene	50.000	53.582	-7.2	107	0.00
55	T	1,1,2-Trichloroethane	50.000	50.215	-0.4	105	0.00
56	T	Ethyl methacrylate	50.000	45.714	8.6	100	0.00
57	T	1,3-Dichloropropane	50.000	50.662	-1.3	104	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	272.966	-9.2	102	0.00
59	T	2-Hexanone	250.000	242.307	3.1	92	0.00
60	T	Dibromochloromethane	50.000	50.392	-0.8	104	0.00
61	T	1,2-Dibromoethane	50.000	49.039	1.9	103	0.00
62	S	4-Bromofluorobenzene	50.000	55.673	-11.3	110	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	107	0.00
64	T	Tetrachloroethene	50.000	52.107	-4.2	117	0.00
65	PM	Chlorobenzene	50.000	50.257	-0.5	109	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	49.494	1.0	108	0.00
67	C	Ethyl Benzene	50.000	55.122	-10.2#	112	0.00
68	T	m/p-Xylenes	100.000	114.570	-14.6	114	0.00
69	T	o-Xylene	50.000	55.481	-11.0	109	0.00
70	T	Styrene	50.000	57.933	-15.9	110	0.00
71	P	Bromoform	50.000	52.493	-5.0	104	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	108	0.00
73	T	Isopropylbenzene	50.000	54.261	-8.5	115	0.00
74	T	N-amyl acetate	50.000	47.841	4.3	97	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	43.898	12.2	99	0.00
76	T	1,2,3-Trichloropropane	50.000	46.662	6.7	115	0.00
77	T	Bromobenzene	50.000	49.115	1.8	109	0.00
78	T	n-propylbenzene	50.000	55.640	-11.3	116	0.00
79	T	2-Chlorotoluene	50.000	51.665	-3.3	112	0.00
80	T	1,3,5-Trimethylbenzene	50.000	55.763	-11.5	114	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	48.853	2.3	102	0.00
82	T	4-Chlorotoluene	50.000	52.164	-4.3	112	0.00
83	T	tert-Butylbenzene	50.000	54.680	-9.4	113	0.00
84	T	1,2,4-Trimethylbenzene	50.000	56.692	-13.4	113	0.00
85	T	sec-Butylbenzene	50.000	56.497	-13.0	116	0.00
86	T	p-Isopropyltoluene	50.000	52.852	-5.7	117	0.00
87	T	1,3-Dichlorobenzene	50.000	50.137	-0.3	112	0.00
88	T	1,4-Dichlorobenzene	50.000	48.073	3.9	112	0.00
89	T	n-Butylbenzene	50.000	57.654	-15.3	117	0.00
90	T	Hexachloroethane	50.000	48.675	2.7	113	0.00
91	T	1,2-Dichlorobenzene	50.000	47.320	5.4	106	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	42.906	14.2	91	0.00
93	T	1,2,4-Trichlorobenzene	50.000	50.589	-1.2	105	0.00
94	T	Hexachlorobutadiene	50.000	47.470	5.1	112	0.00
95	T	Naphthalene	50.000	46.012	8.0	90	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085447.D
Acq On : 15 Jan 2025 09:03
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jan 16 00:51:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	47.236	5.5	99	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.: Q1062 SAS No.: Q1062 SDG No.: Q1062

Instrument ID: MSVOA_N Calibration Date/Time: 01/15/2025 15:58

Lab File ID: VN085463.D Init. Calib. Date(s): 01/14/2025 01/14/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 14:56 17:19

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Chloromethane	0.733	0.702	0.1	-4.23	50
Vinyl Chloride	0.737	0.708		-3.93	50
Bromomethane	0.445	0.408		-8.31	50
Chloroethane	0.467	0.455		-2.57	50
Trichlorofluoromethane	1.069	1.073		0.37	50
1,1,2-Trichlorotrifluoroethane	0.602	0.611		1.5	50
1,1-Dichloroethene	0.537	0.553		2.98	50
Acetone	0.261	0.262		0.38	50
Carbon Disulfide	1.652	1.549		-6.24	50
Methyl tert-butyl Ether	1.742	1.940		11.37	50
Methylene Chloride	0.646	0.639		-1.08	50
trans-1,2-Dichloroethene	0.573	0.583		1.75	50
1,1-Dichloroethane	1.178	1.209	0.1	2.63	50
2-Butanone	0.384	0.414		7.81	50
Carbon Tetrachloride	0.557	0.568		1.98	50
cis-1,2-Dichloroethene	0.675	0.710		5.18	50
Chloroform	1.218	1.244		2.13	50
1,1,1-Trichloroethane	1.068	1.085		1.59	50
Methylcyclohexane	0.457	0.526		15.1	50
Benzene	1.463	1.516		3.62	50
1,2-Dichloroethane	0.551	0.569		3.27	50
Trichloroethene	0.341	0.335		-1.76	50
1,2-Dichloropropane	0.374	0.381		1.87	50
Bromodichloromethane	0.549	0.580		5.65	50
4-Methyl-2-Pentanone	0.457	0.517		13.13	50
Toluene	0.848	0.933		10.02	50
t-1,3-Dichloropropene	0.519	0.581		11.95	50
cis-1,3-Dichloropropene	0.554	0.617		11.37	50
1,1,2-Trichloroethane	0.335	0.347		3.58	50
2-Hexanone	0.321	0.376		17.13	50
Dibromochloromethane	0.405	0.424		4.69	50
Tetrachloroethene	0.341	0.322		-5.57	50
Chlorobenzene	1.095	1.124	0.3	2.65	50
Ethyl Benzene	1.784	2.015		12.95	50
m/p-Xylenes	0.659	0.755		14.57	50
o-Xylene	0.630	0.715		13.49	50
Styrene	1.043	1.237		18.6	50
Bromoform	0.288	0.318	0.1	10.42	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.: Q1062 SAS No.: Q1062 SDG No.: Q1062

Instrument ID: MSVOA_N Calibration Date/Time: 01/15/2025 15:58

Lab File ID: VN085463.D Init. Calib. Date(s): 01/14/2025 01/14/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 14:56 17:19

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Isopropylbenzene	3.375	3.695		9.48	50
1,1,2,2-Tetrachloroethane	1.192	1.175	0.3	-1.43	50
1,3-Dichlorobenzene	1.624	1.668		2.71	50
1,4-Dichlorobenzene	1.683	1.639		-2.61	50
1,2-Dichlorobenzene	1.620	1.603		-1.05	50
1,2-Dichloroethane-d4	0.807	0.841		4.21	50
Dibromofluoromethane	0.347	0.359		3.46	50
Toluene-d8	1.232	1.331		8.04	50
4-Bromofluorobenzene	0.422	0.473		12.09	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_N\Data\VN011525\
Data File : VN085463.D
Acq On : 15 Jan 2025 15:58
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jan 16 01:00:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.218	168	218558	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	374640	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	330319	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	166317	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	183857	52.114	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 104.220%			
35) Dibromofluoromethane	8.165	113	134312	51.677	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.360%			
50) Toluene-d8	10.565	98	498748	54.009	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 108.020%			
62) 4-Bromofluorobenzene	12.847	95	177300	56.127	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 112.260%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	149573	50.545	ug/l	99
3) Chloromethane	2.359	50	153360	47.865	ug/l	97
4) Vinyl Chloride	2.512	62	154638	48.017	ug/l	99
5) Bromomethane	2.948	94	89160	45.833	ug/l	100
6) Chloroethane	3.118	64	99471	48.718	ug/l	98
7) Trichlorofluoromethane	3.500	101	234589	50.203	ug/l	98
8) Diethyl Ether	3.959	74	78639	48.714	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.371	101	133519	50.730	ug/l	99
10) Methyl Iodide	4.589	142	158063	52.443	ug/l	97
11) Tert butyl alcohol	5.506	59	107622	266.406	ug/l	98
12) 1,1-Dichloroethene	4.342	96	120856	51.524	ug/l	97
13) Acrolein	4.171	56	156827	284.383	ug/l	98
14) Allyl chloride	5.018	41	195577	51.384	ug/l	98
15) Acrylonitrile	5.718	53	337135	262.738	ug/l	98
16) Acetone	4.418	43	286337	251.190	ug/l	97
17) Carbon Disulfide	4.712	76	338441	46.862	ug/l	99
18) Methyl Acetate	5.018	43	179563	51.803	ug/l	100
19) Methyl tert-butyl Ether	5.794	73	424024	55.672	ug/l	100
20) Methylene Chloride	5.277	84	139560	49.455	ug/l	93
21) trans-1,2-Dichloroethene	5.783	96	127358	50.805	ug/l	96
22) Diisopropyl ether	6.665	45	467061	55.286	ug/l	96
23) Vinyl Acetate	6.600	43	1731604	292.883	ug/l	99
24) 1,1-Dichloroethane	6.565	63	264195	51.287	ug/l	98
25) 2-Butanone	7.477	43	452029	269.467	ug/l	99
26) 2,2-Dichloropropane	7.488	77	236796	56.857	ug/l	99
27) cis-1,2-Dichloroethene	7.483	96	155179	52.557	ug/l	99
28) Bromochloromethane	7.806	49	119440	49.837	ug/l	99
29) Tetrahydrofuran	7.835	42	302642	284.562	ug/l	98
30) Chloroform	7.965	83	271813	51.054	ug/l	99
31) Cyclohexane	8.253	56	218304	48.757	ug/l	95
32) 1,1,1-Trichloroethane	8.165	97	237039	50.757	ug/l	97
36) 1,1-Dichloropropene	8.371	75	184438	50.562	ug/l	99
37) Ethyl Acetate	7.553	43	187078	50.810	ug/l	98
38) Carbon Tetrachloride	8.359	117	212942	50.991	ug/l	100
39) Methylcyclohexane	9.594	83	196879	57.436	ug/l	97
40) Benzene	8.600	78	567975	51.821	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085463.D
Acq On : 15 Jan 2025 15:58
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jan 16 01:00:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	7.771	41	105319	54.981 ug/l		98
42) 1,2-Dichloroethane	8.665	62	213125	51.629 ug/l		99
43) Isopropyl Acetate	8.682	43	339818	57.599 ug/l		96
44) Trichloroethene	9.347	130	125677	49.260 ug/l		95
45) 1,2-Dichloropropane	9.618	63	142897	51.043 ug/l		99
46) Dibromomethane	9.706	93	100497	49.750 ug/l		97
47) Bromodichloromethane	9.882	83	217353	52.814 ug/l		99
48) Methyl methacrylate	9.677	41	153447	57.796 ug/l		98
49) 1,4-Dioxane	9.688	88	43495	972.836 ug/l		99
51) 4-Methyl-2-Pentanone	10.441	43	967748	282.679 ug/l		100
52) Toluene	10.629	92	349488	55.032 ug/l		98
53) t-1,3-Dichloropropene	10.829	75	217586	55.946 ug/l		97
54) cis-1,3-Dichloropropene	10.312	75	231235	55.661 ug/l		99
55) 1,1,2-Trichloroethane	11.012	97	130083	51.759 ug/l		99
56) Ethyl methacrylate	10.871	69	211176	49.885 ug/l		98
57) 1,3-Dichloropropane	11.159	76	233088	53.338 ug/l		100
58) 2-Chloroethyl Vinyl ether	10.159	63	462882	290.228 ug/l		99
59) 2-Hexanone	11.194	43	703719	292.136 ug/l		99
60) Dibromochloromethane	11.353	129	158806	52.339 ug/l		100
61) 1,2-Dibromoethane	11.465	107	127688	51.040 ug/l		99
64) Tetrachloroethene	11.100	164	106305	47.207 ug/l		99
65) Chlorobenzene	11.888	112	371312	51.313 ug/l		97
66) 1,1,1,2-Tetrachloroethane	11.959	131	133724	50.351 ug/l		99
67) Ethyl Benzene	11.959	91	665536	56.469 ug/l		99
68) m/p-Xylenes	12.065	106	498925	114.541 ug/l		99
69) o-Xylene	12.394	106	236130	56.724 ug/l		99
70) Styrene	12.406	104	408614	59.312 ug/l		99
71) Bromoform	12.576	173	105169	55.344 ug/l	#	98
73) Isopropylbenzene	12.694	105	614595	54.752 ug/l		100
74) N-amyl acetate	12.488	43	283775	56.244 ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.935	83	195465	49.296 ug/l		99
76) 1,2,3-Trichloropropane	12.988	75	154649m	45.748 ug/l		
77) Bromobenzene	12.976	156	146854	50.075 ug/l		99
78) n-propylbenzene	13.035	91	748465	56.324 ug/l		100
79) 2-Chlorotoluene	13.123	91	450235	52.351 ug/l		99
80) 1,3,5-Trimethylbenzene	13.170	105	523728	56.485 ug/l		99
81) trans-1,4-Dichloro-2-b...	12.735	75	70693m	56.580 ug/l		
82) 4-Chlorotoluene	13.217	91	459658	53.678 ug/l		100
83) tert-Butylbenzene	13.435	119	437674	56.211 ug/l		100
84) 1,2,4-Trimethylbenzene	13.476	105	531276	57.491 ug/l		100
85) sec-Butylbenzene	13.612	105	626587	58.063 ug/l		100
86) p-Isopropyltoluene	13.729	119	525049	53.560 ug/l		100
87) 1,3-Dichlorobenzene	13.729	146	277409	51.364 ug/l		98
88) 1,4-Dichlorobenzene	13.812	146	272594	48.694 ug/l		99
89) n-Butylbenzene	14.053	91	455243	58.802 ug/l		99
90) Hexachloroethane	14.329	117	103728	50.491 ug/l		99
91) 1,2-Dichlorobenzene	14.100	146	266635	49.494 ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	36986	51.081 ug/l		97
93) 1,2,4-Trichlorobenzene	15.388	180	133515	53.324 ug/l		99
94) Hexachlorobutadiene	15.500	225	64832	48.771 ug/l		99
95) Naphthalene	15.635	128	399446	53.462 ug/l		99
96) 1,2,3-Trichlorobenzene	15.835	180	128843	50.856 ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085463.D
Acq On : 15 Jan 2025 15:58
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jan 16 01:00:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

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

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

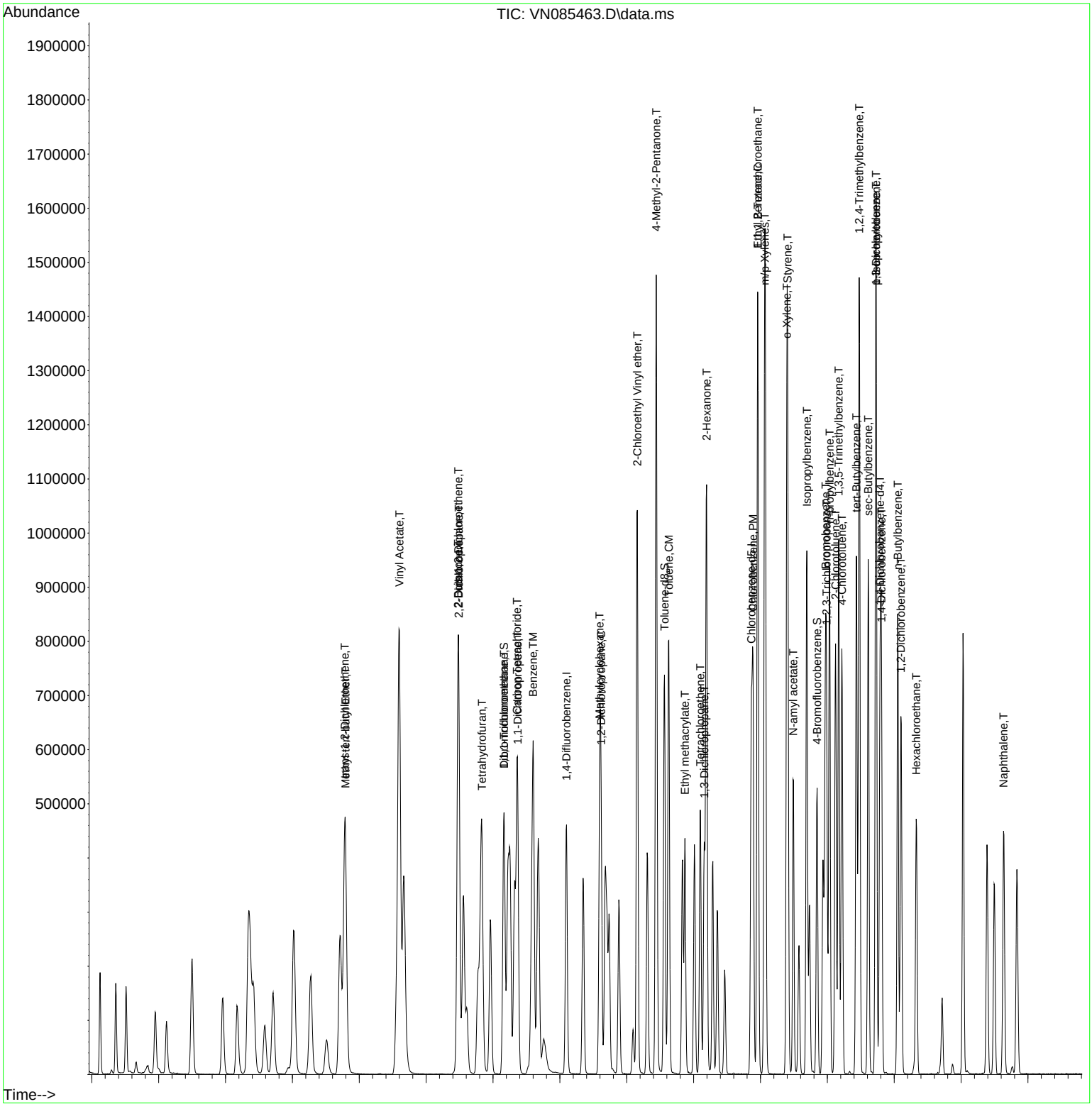
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085463.D
Acq On : 15 Jan 2025 15:58
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 18 Sample Multiplier: 1

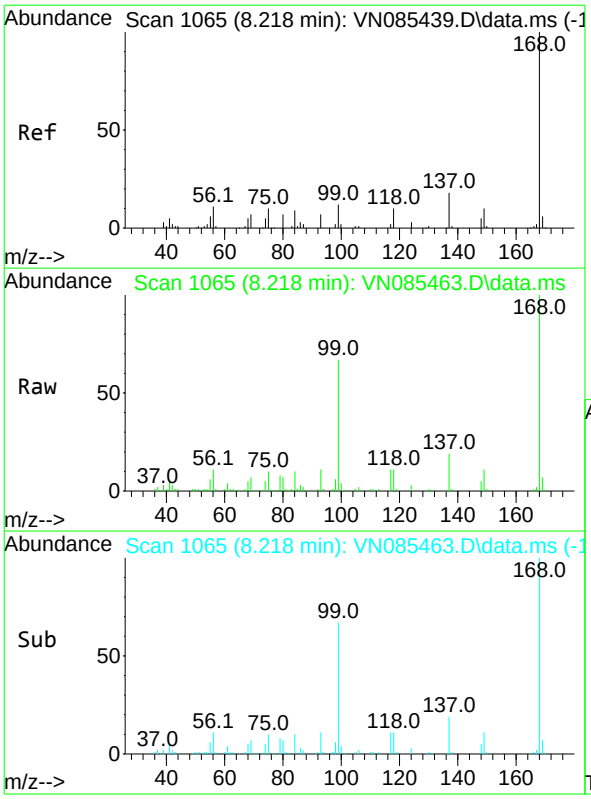
Quant Time: Jan 16 01:00:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

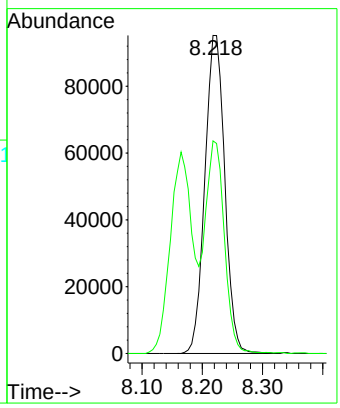




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion:168 Resp: 218558

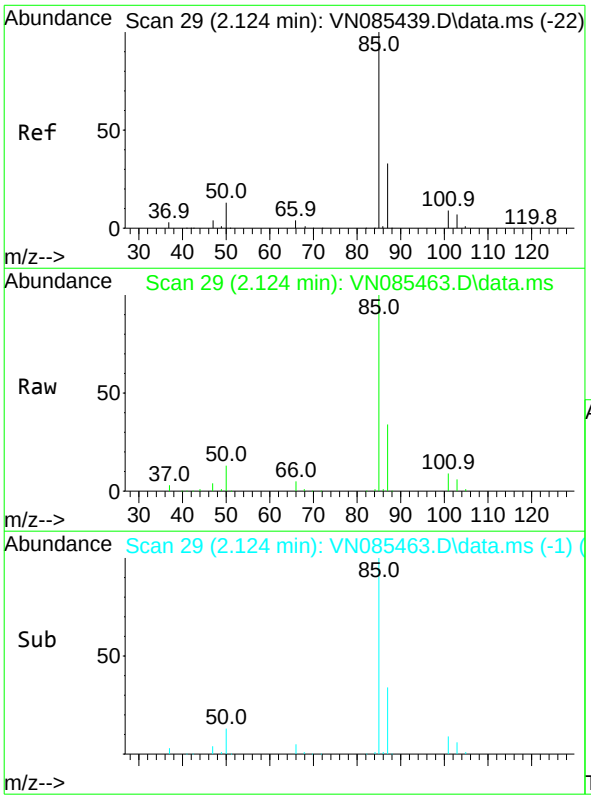
Ion	Ratio	Lower	Upper
168	100		
99	66.6	53.6	80.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

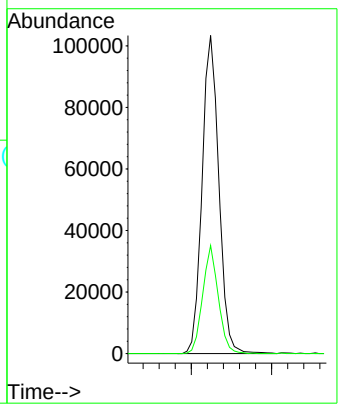
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

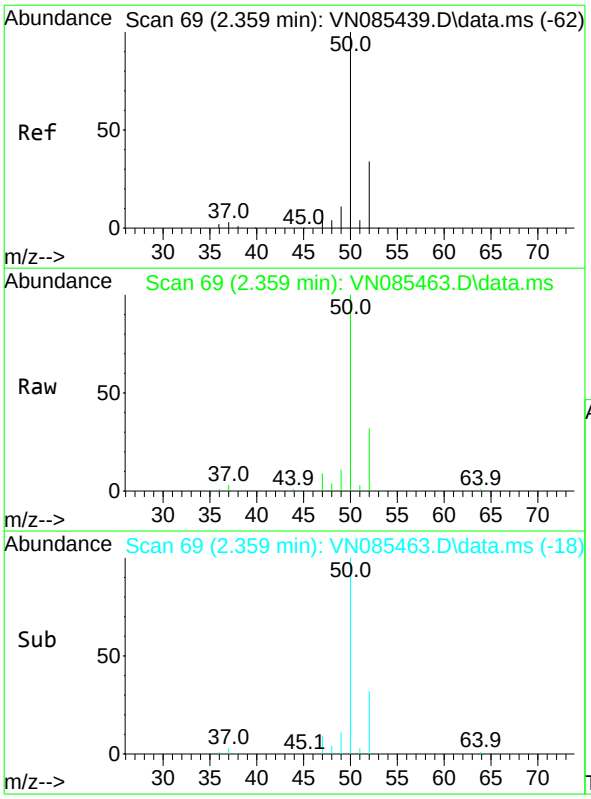


#2
Dichlorodifluoromethane
Concen: 50.545 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 85 Resp: 149573

Ion	Ratio	Lower	Upper
85	100		
87	34.0	16.7	50.1

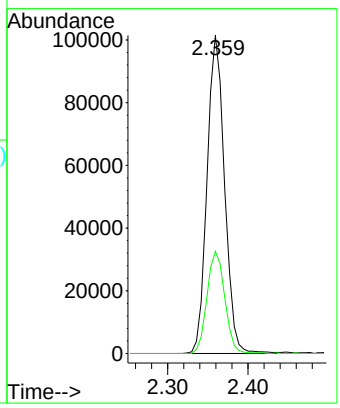




#3
Chloromethane
Concen: 47.865 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 50 Resp: 153360

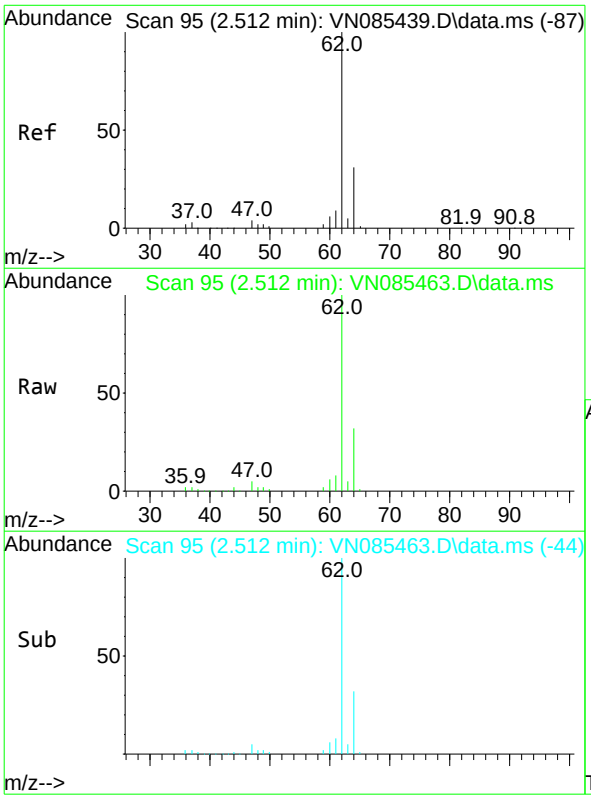
Ion	Ratio	Lower	Upper
50	100		
52	32.1	27.0	40.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

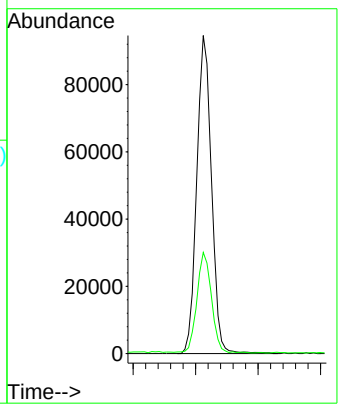
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

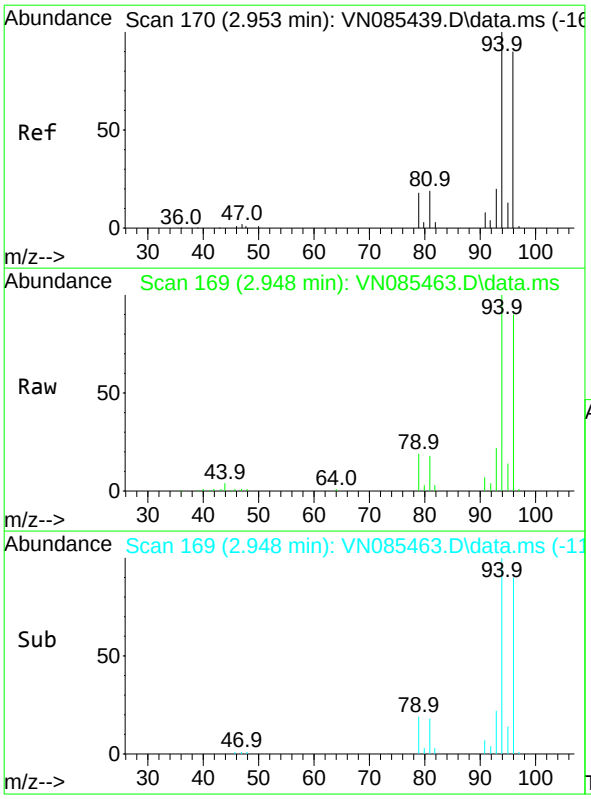


#4
Vinyl Chloride
Concen: 48.017 ug/l
RT: 2.512 min Scan# 95
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 62 Resp: 154638

Ion	Ratio	Lower	Upper
62	100		
64	31.4	24.8	37.2

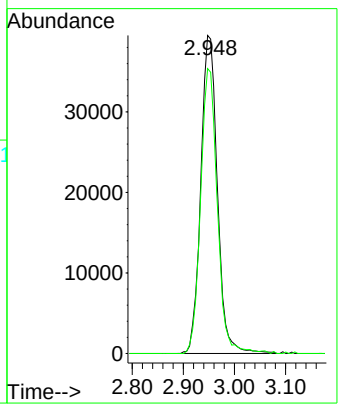




#5
Bromomethane
Concen: 45.833 ug/l
RT: 2.948 min Scan# 16
Delta R.T. -0.006 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 94 Resp: 89160

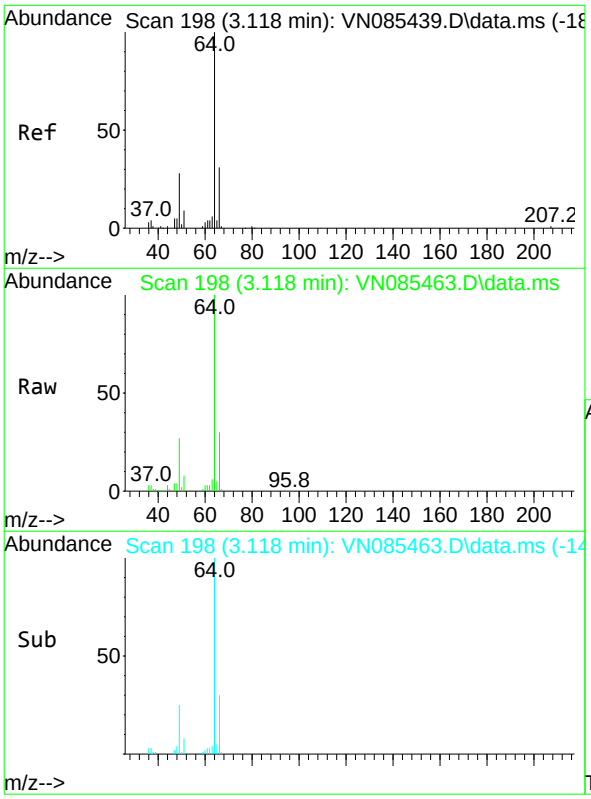
Ion	Ratio	Lower	Upper
94	100		
96	89.6	71.8	107.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

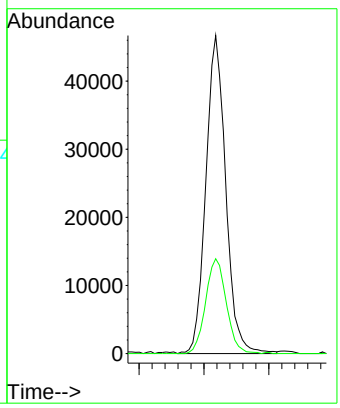
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

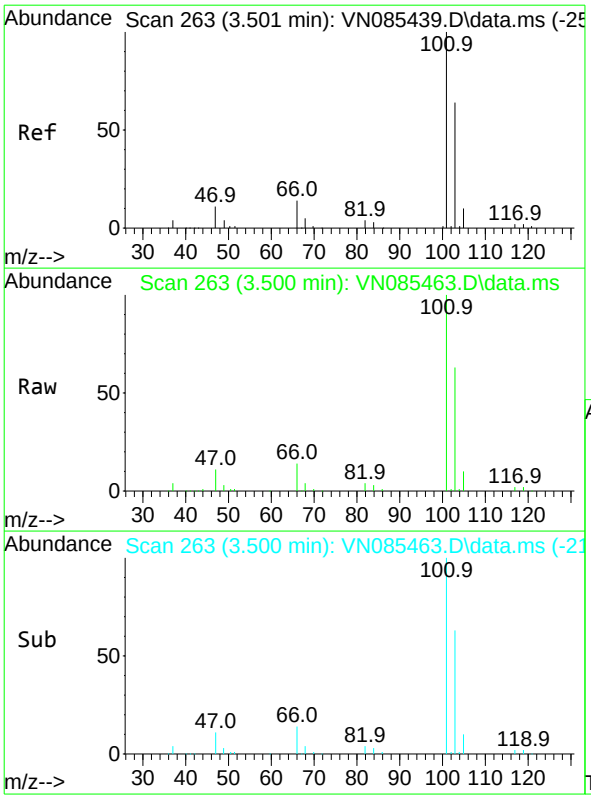


#6
Chloroethane
Concen: 48.718 ug/l
RT: 3.118 min Scan# 198
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 64 Resp: 99471

Ion	Ratio	Lower	Upper
64	100		
66	29.8	24.6	36.8

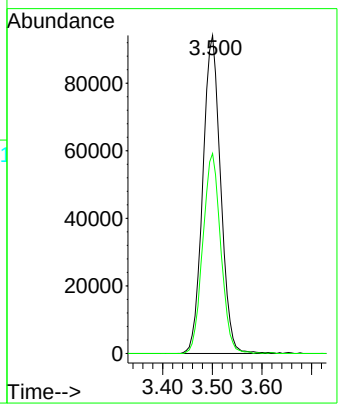




#7
Trichlorofluoromethane
Concen: 50.203 ug/l
RT: 3.500 min Scan# 26
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion:101 Resp: 234589

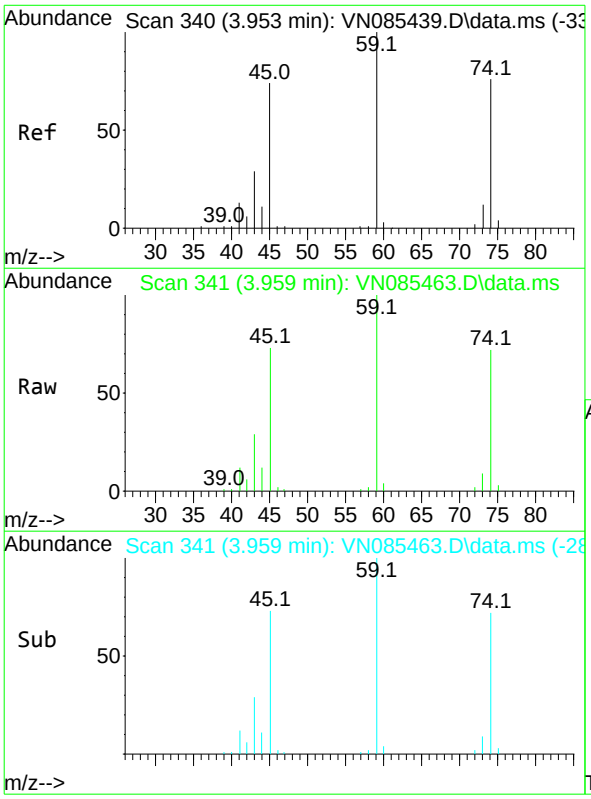
Ion	Ratio	Lower	Upper
101	100		
103	62.9	51.4	77.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

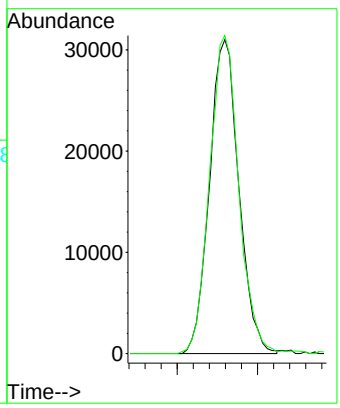
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

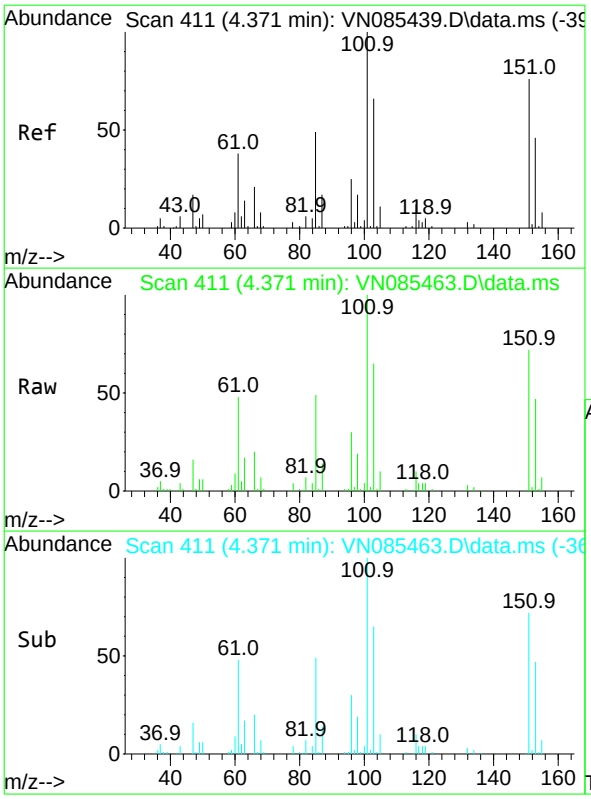


#8
Diethyl Ether
Concen: 48.714 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.006 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 74 Resp: 78639

Ion	Ratio	Lower	Upper
74	100		
45	100.9	49.7	149.1





#9
1,1,2-Trichlorotrifluoroethane
Concen: 50.730 ug/l
RT: 4.371 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

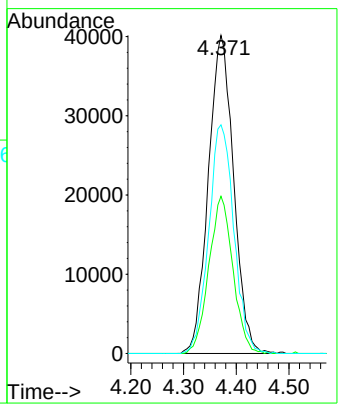
Tgt Ion:101 Resp: 133519

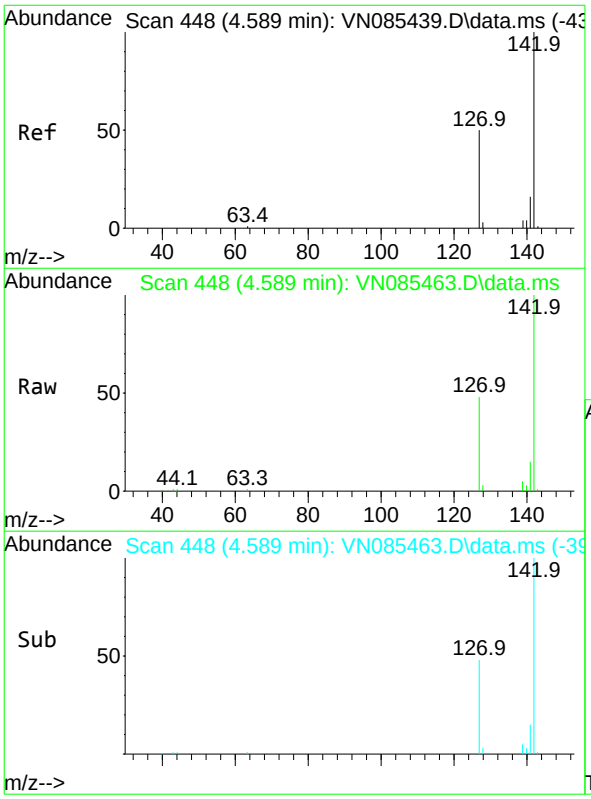
Ion	Ratio	Lower	Upper
101	100		
85	47.1	37.8	56.8
151	71.8	58.8	88.2

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

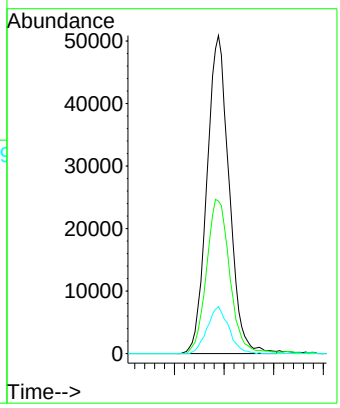


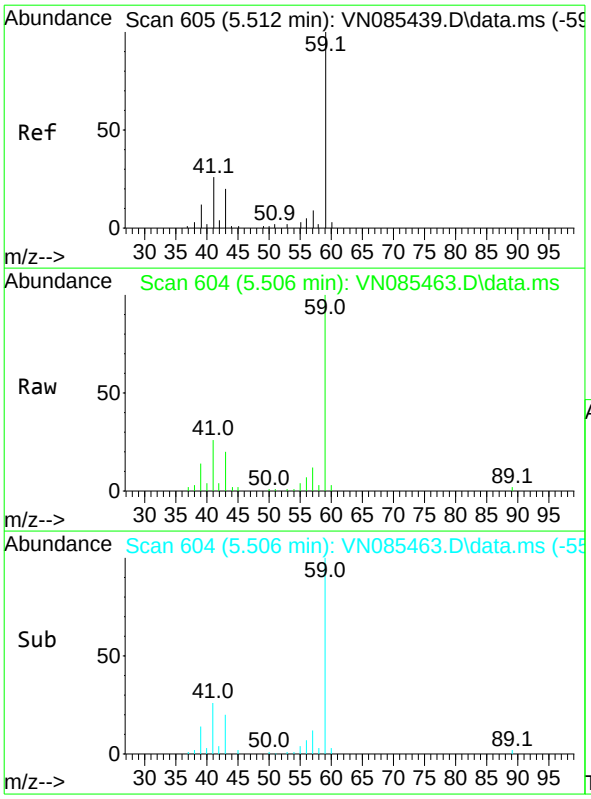


#10
Methyl Iodide
Concen: 52.443 ug/l
RT: 4.589 min Scan# 448
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion:142 Resp: 158063

Ion	Ratio	Lower	Upper
142	100		
127	47.9	40.3	60.5
141	14.8	12.8	19.2





#11
Tert butyl alcohol
Concen: 266.406 ug/l
RT: 5.506 min Scan# 60
Delta R.T. -0.006 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

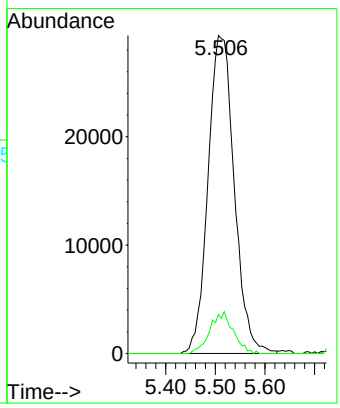
Tgt Ion: 59 Resp: 107622

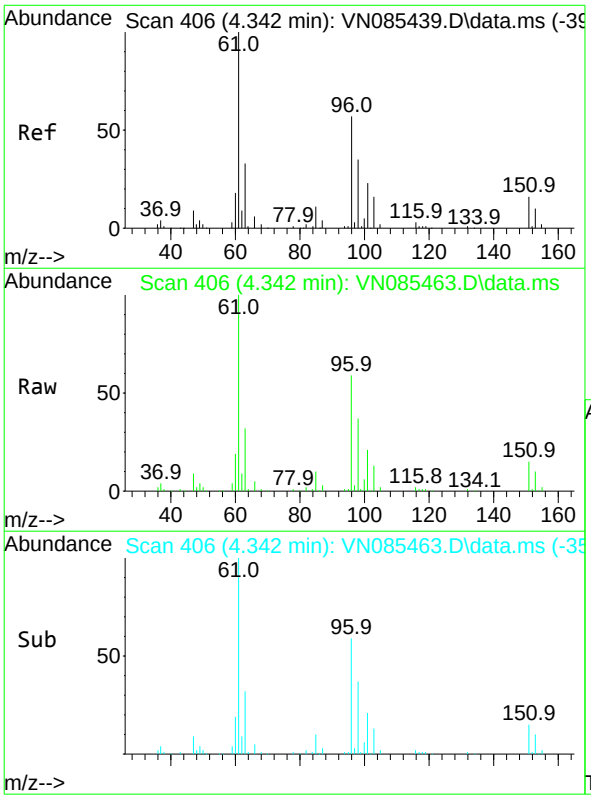
Ion	Ratio	Lower	Upper
59	100		
57	11.7	8.6	13.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

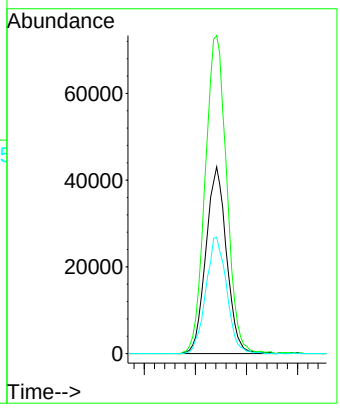


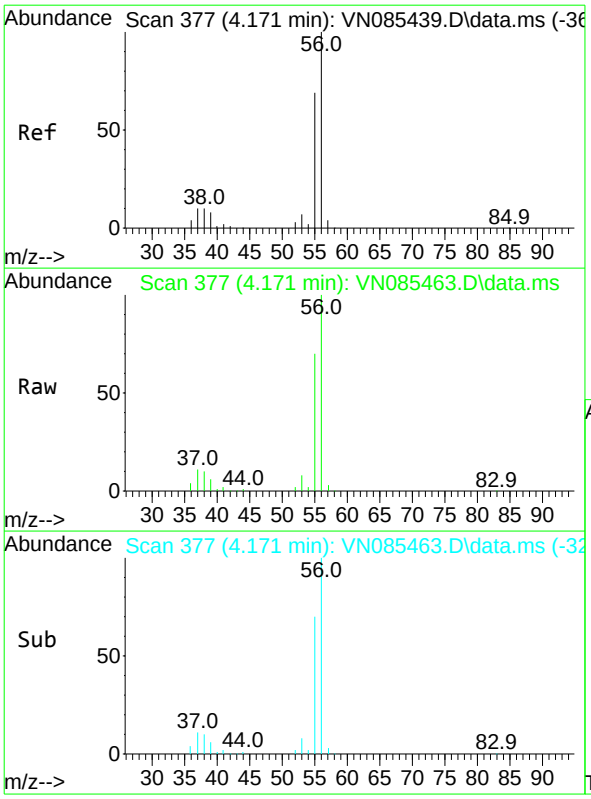


#12
1,1-Dichloroethene
Concen: 51.524 ug/l
RT: 4.342 min Scan# 406
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 96 Resp: 120856

Ion	Ratio	Lower	Upper
96	100		
61	170.3	141.0	211.4
98	62.3	49.0	73.6

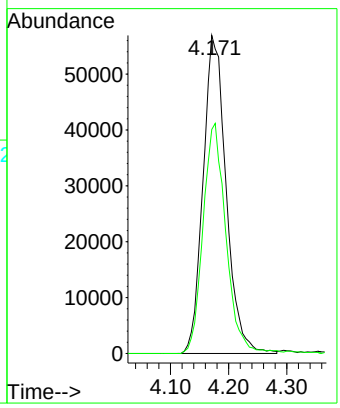




#13
Acrolein
Concen: 284.383 ug/l
RT: 4.171 min Scan# 37
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 56 Resp: 156827

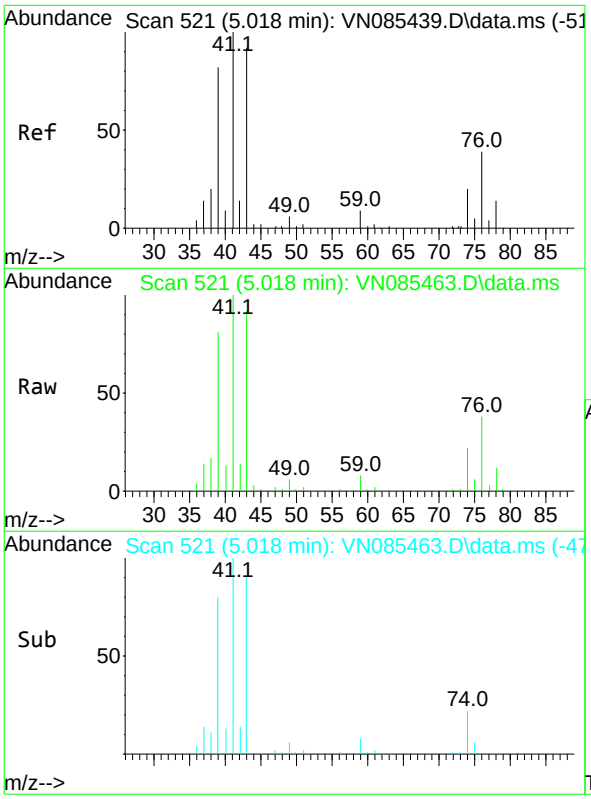
Ion	Ratio	Lower	Upper
56	100		
55	71.8	56.3	84.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

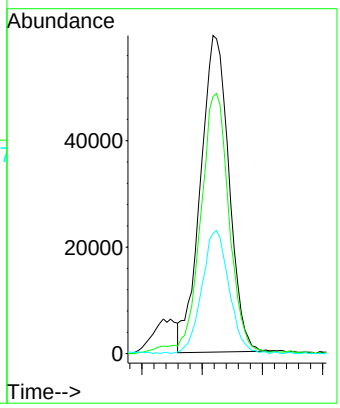
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

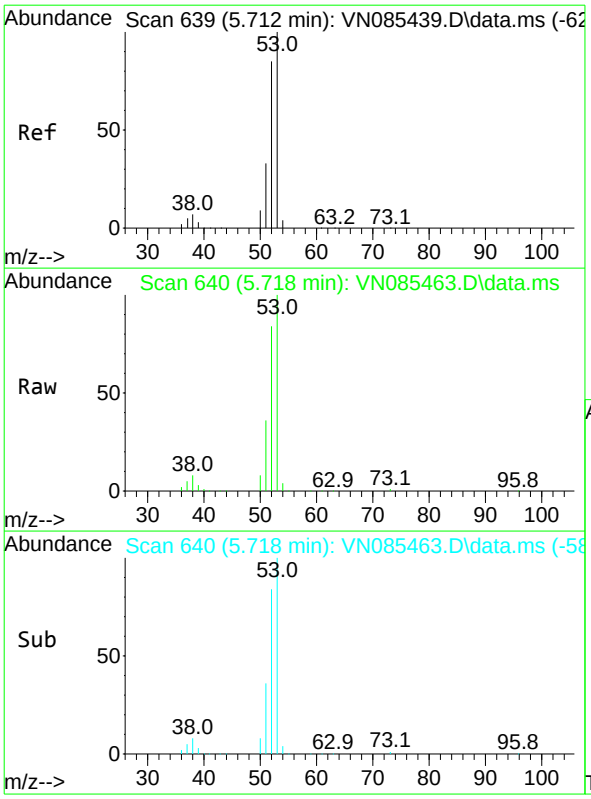


#14
Allyl chloride
Concen: 51.384 ug/l
RT: 5.018 min Scan# 521
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 41 Resp: 195577

Ion	Ratio	Lower	Upper
41	100		
39	82.9	64.4	96.6
76	37.2	30.5	45.7

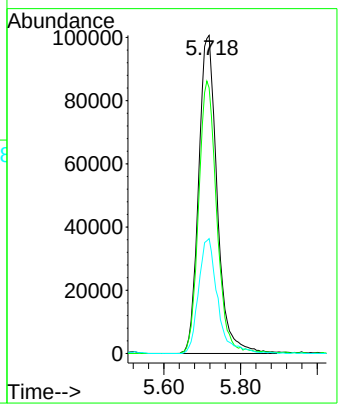




#15
Acrylonitrile
Concen: 262.738 ug/l
RT: 5.718 min Scan# 64
Delta R.T. 0.006 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 53 Resp: 337135

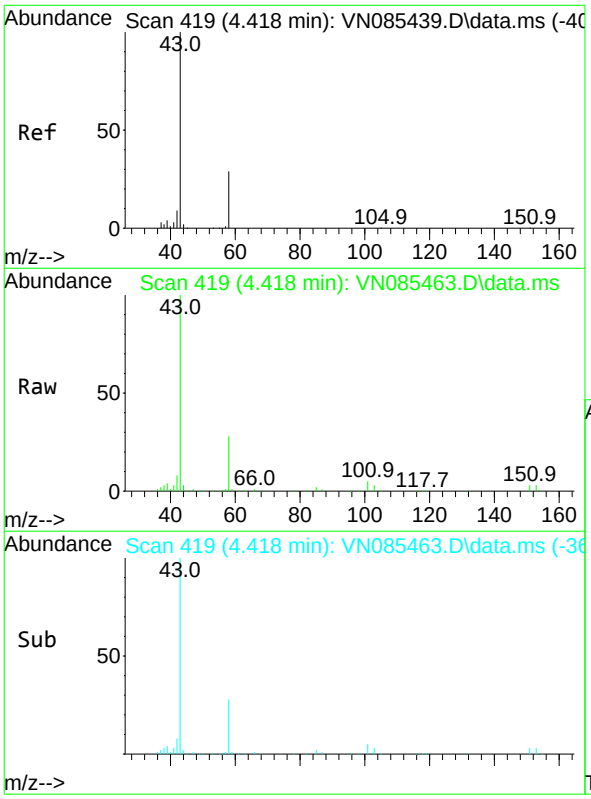
Ion	Ratio	Lower	Upper
53	100		
52	84.0	65.5	98.3
51	37.1	29.8	44.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

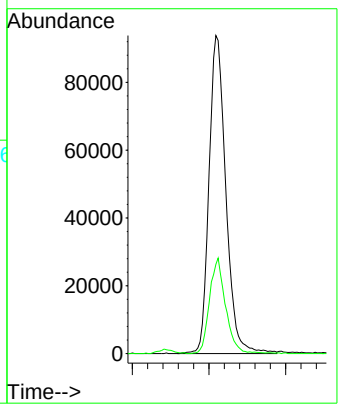
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

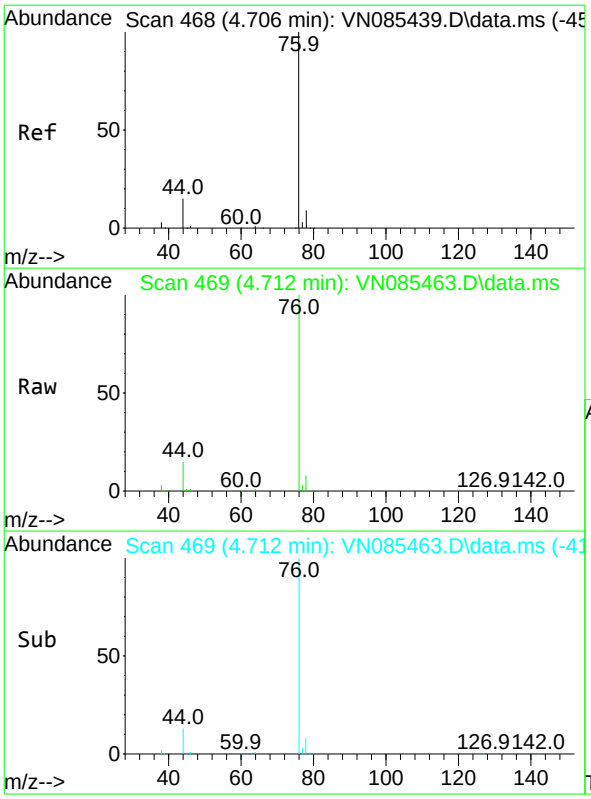


#16
Acetone
Concen: 251.190 ug/l
RT: 4.418 min Scan# 419
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 43 Resp: 286337

Ion	Ratio	Lower	Upper
43	100		
58	27.9	23.8	35.6

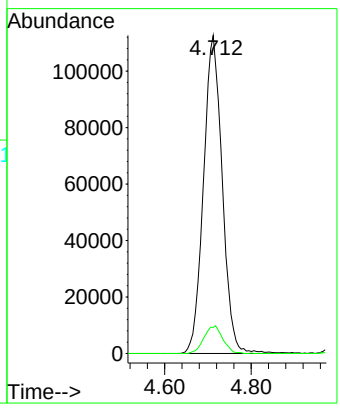




#17
Carbon Disulfide
Concen: 46.862 ug/l
RT: 4.712 min Scan# 46
Delta R.T. 0.006 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 76 Resp: 338441

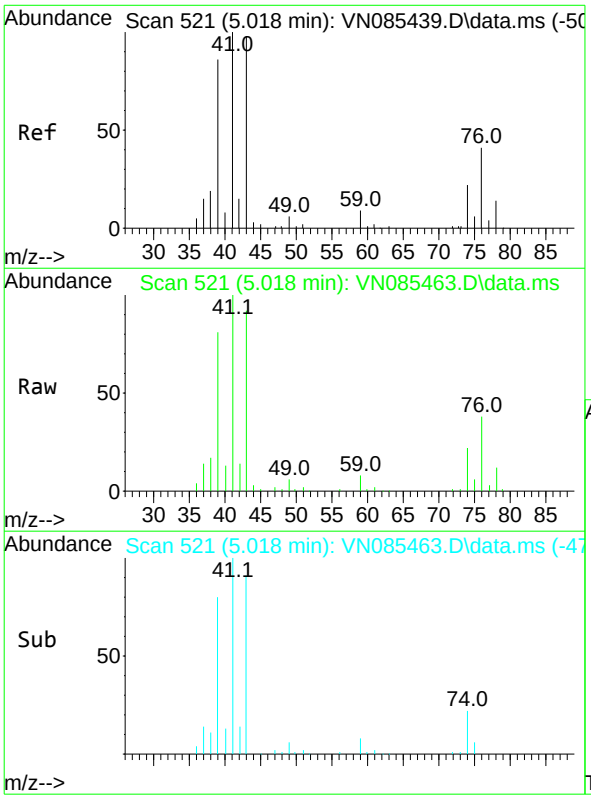
Ion	Ratio	Lower	Upper
76	100		
78	8.2	6.9	10.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

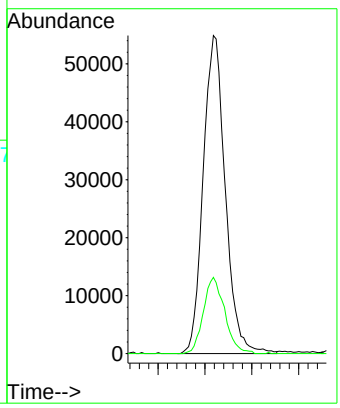
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

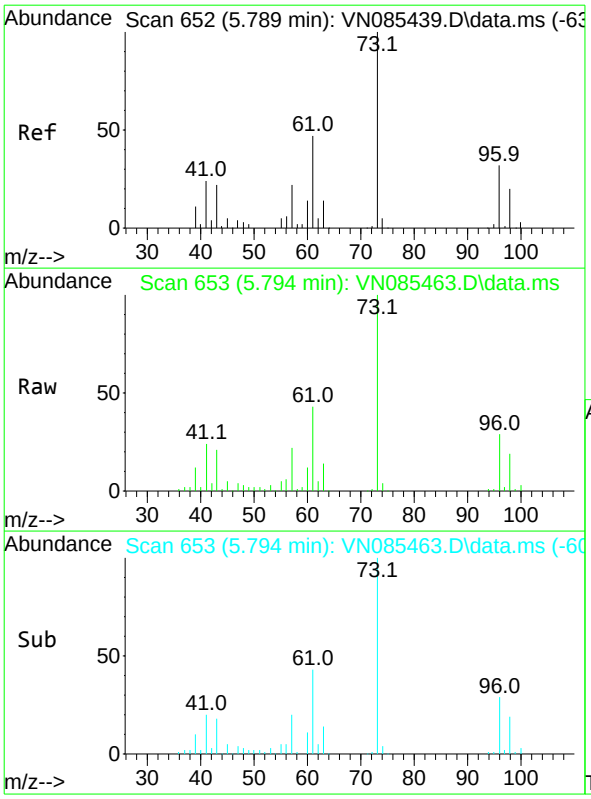


#18
Methyl Acetate
Concen: 51.803 ug/l
RT: 5.018 min Scan# 521
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 43 Resp: 179563

Ion	Ratio	Lower	Upper
43	100		
74	23.2	18.6	28.0

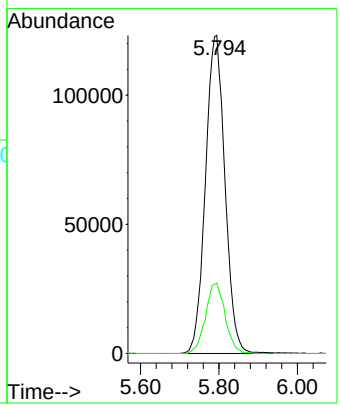




#19
Methyl tert-butyl Ether
Concen: 55.672 ug/l
RT: 5.794 min Scan# 65
Delta R.T. 0.006 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 73 Resp: 424024

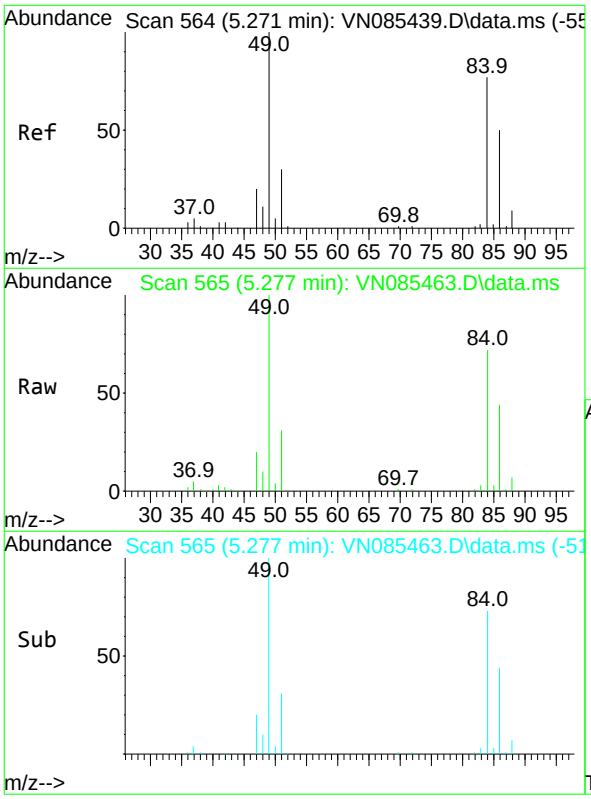
Ion	Ratio	Lower	Upper
73	100		
57	22.2	17.8	26.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

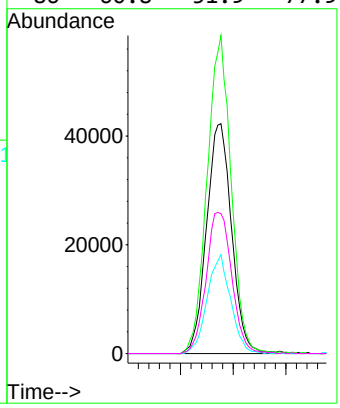
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

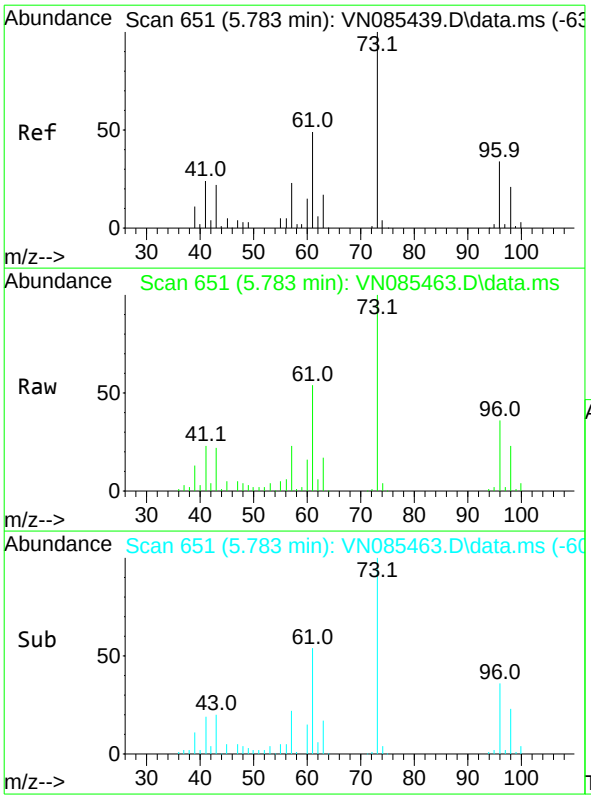


#20
Methylene Chloride
Concen: 49.455 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.006 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 84 Resp: 139560

Ion	Ratio	Lower	Upper
84	100		
49	138.4	104.1	156.1
51	43.1	31.0	46.4
86	60.8	51.9	77.9

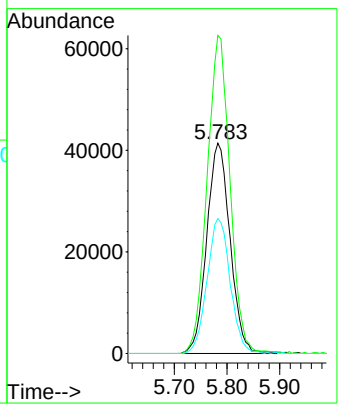




#21
trans-1,2-Dichloroethene
Concen: 50.805 ug/l
RT: 5.783 min Scan# 65
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 96 Resp: 127358

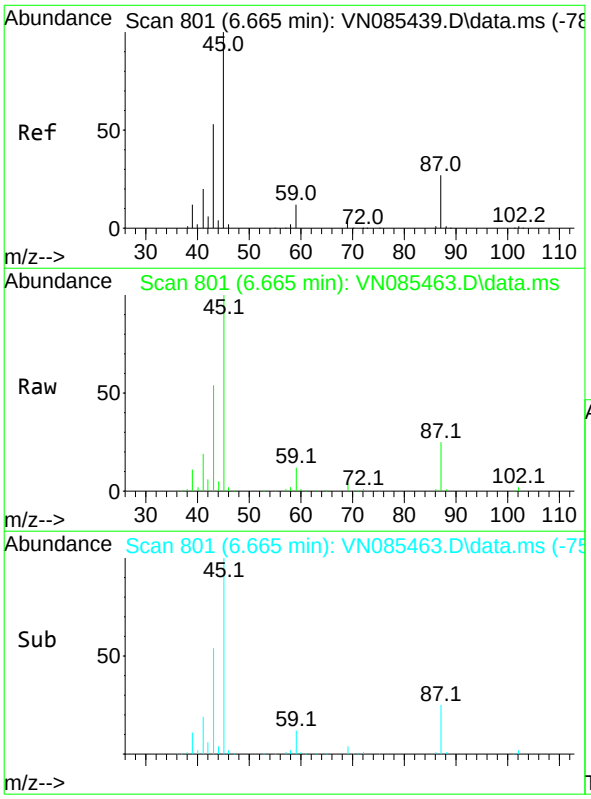
Ion	Ratio	Lower	Upper
96	100		
61	151.2	115.7	173.5
98	64.1	49.8	74.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

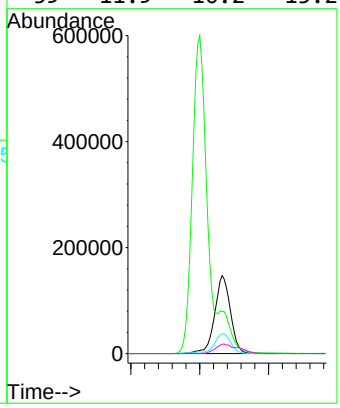
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

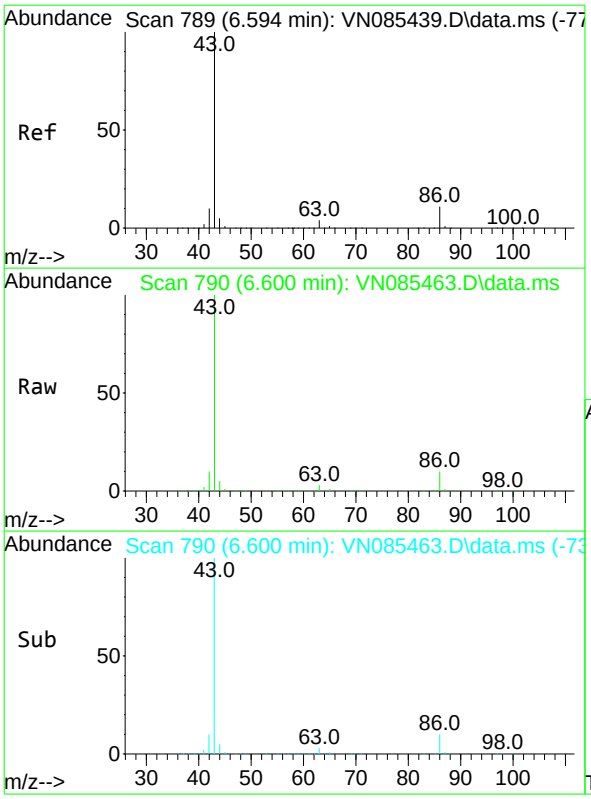


#22
Diisopropyl ether
Concen: 55.286 ug/l
RT: 6.665 min Scan# 801
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 45 Resp: 467061

Ion	Ratio	Lower	Upper
45	100		
43	53.5	45.0	67.6
87	25.2	21.8	32.8
59	11.9	10.2	15.2

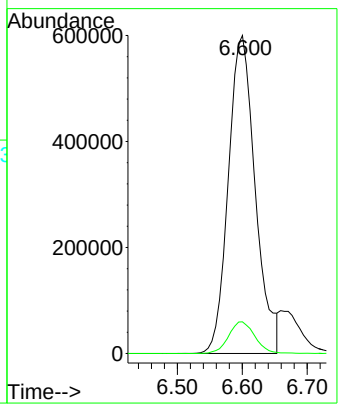




#23
Vinyl Acetate
Concen: 292.883 ug/l
RT: 6.600 min Scan# 79
Delta R.T. 0.006 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 43 Resp: 1731604

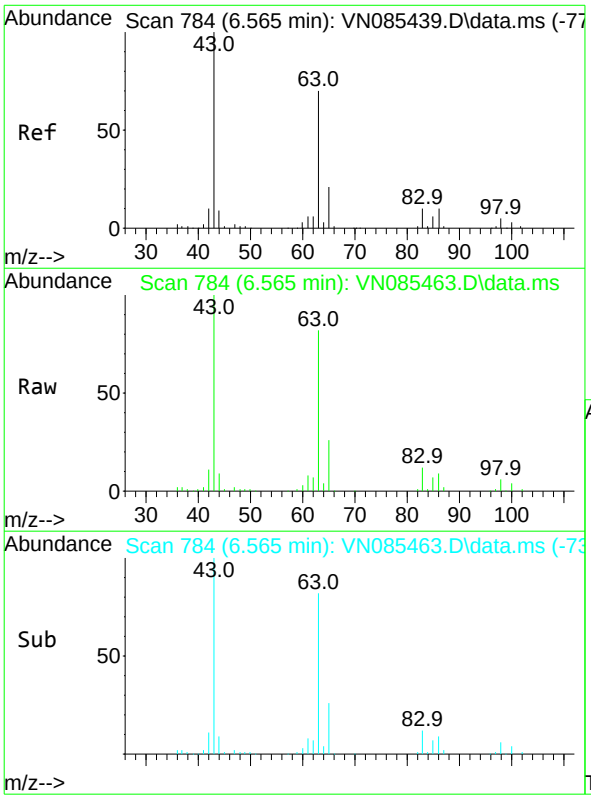
Ion	Ratio	Lower	Upper
43	100		
86	9.9	8.4	12.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

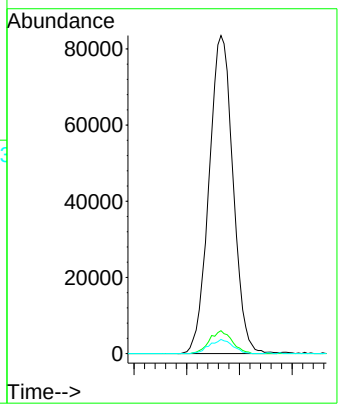
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

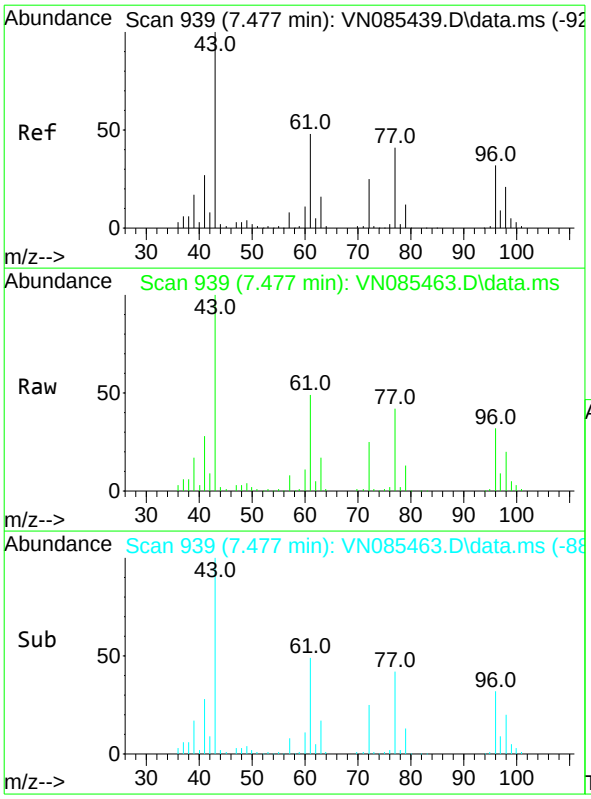


#24
1,1-Dichloroethane
Concen: 51.287 ug/l
RT: 6.565 min Scan# 784
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 63 Resp: 264195

Ion	Ratio	Lower	Upper
63	100		
98	7.2	3.3	9.8
100	4.5	2.0	6.0

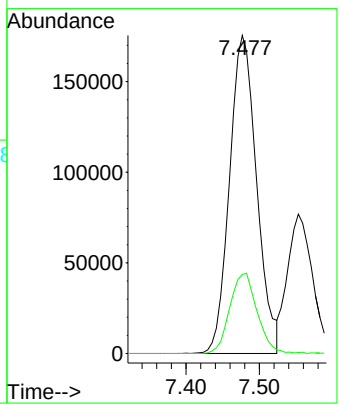




#25
2-Butanone
Concen: 269.467 ug/l
RT: 7.477 min Scan# 93
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 43 Resp: 452029

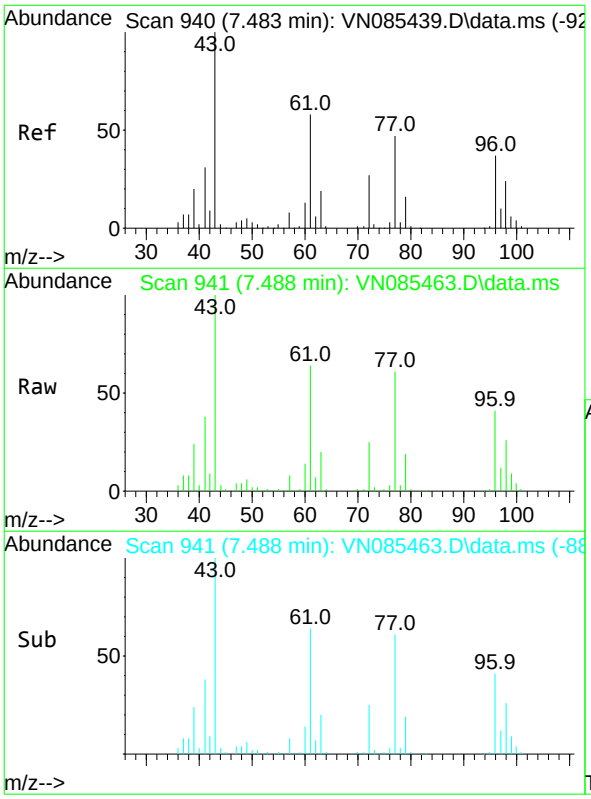
Ion	Ratio	Lower	Upper
43	100		
72	24.8	20.2	30.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

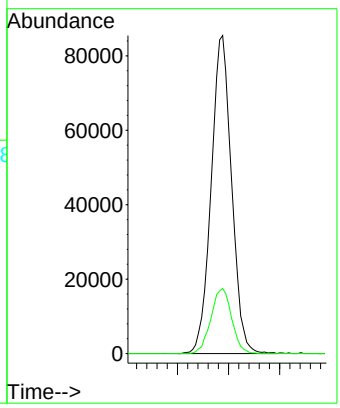
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

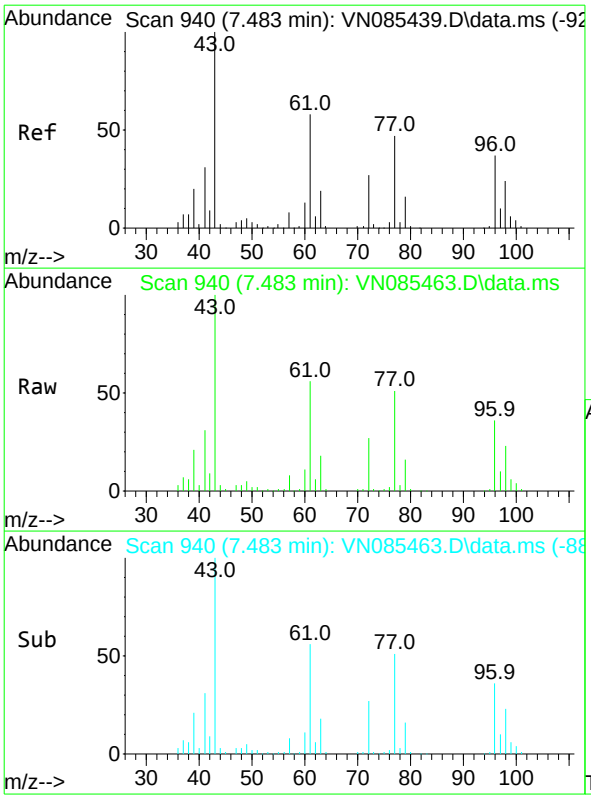


#26
2,2-Dichloropropane
Concen: 56.857 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 77 Resp: 236796

Ion	Ratio	Lower	Upper
77	100		
97	20.8	10.7	32.1

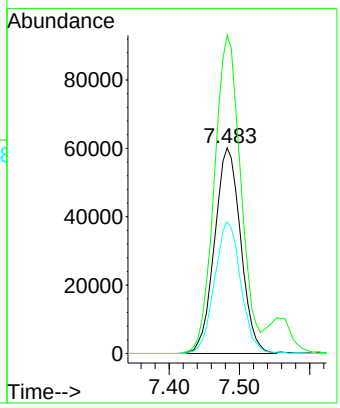




#27
cis-1,2-Dichloroethene
Concen: 52.557 ug/l
RT: 7.483 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 96 Resp: 155179

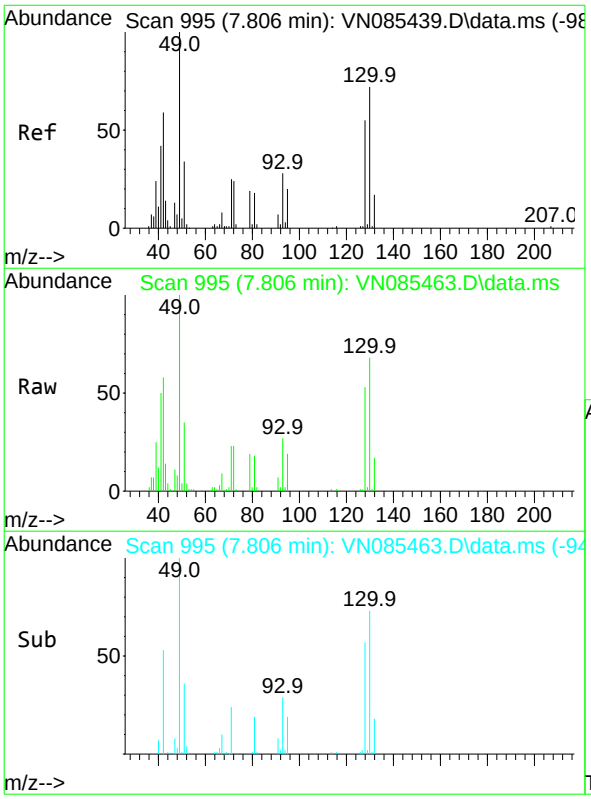
Ion	Ratio	Lower	Upper
96	100		
61	156.3	0.0	311.8
98	64.4	0.0	126.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

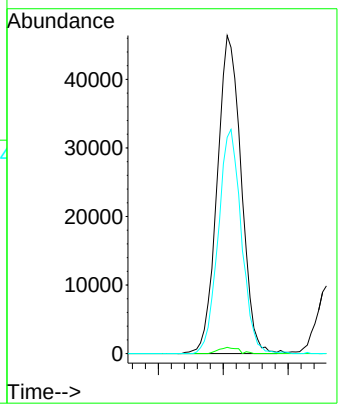
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

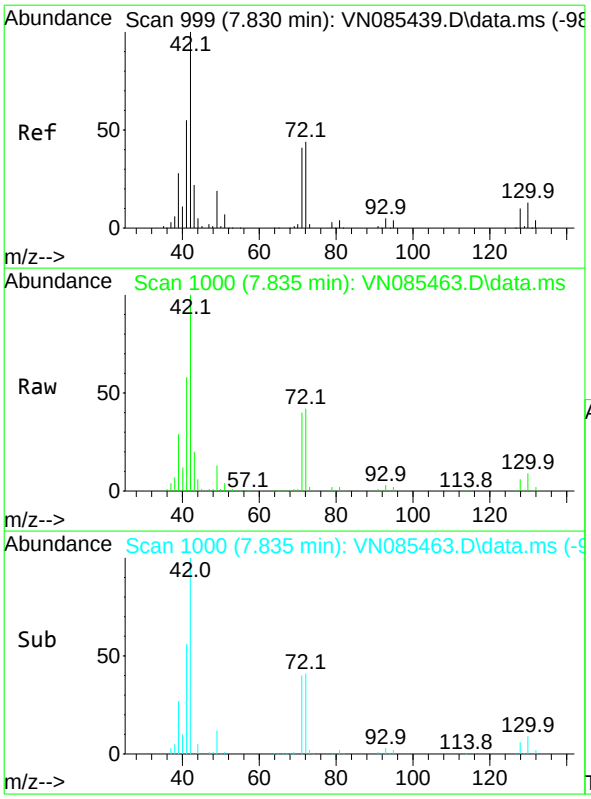


#28
Bromochloromethane
Concen: 49.837 ug/l
RT: 7.806 min Scan# 995
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 49 Resp: 119440

Ion	Ratio	Lower	Upper
49	100		
129	1.6	0.0	4.4
130	68.0	55.0	82.4

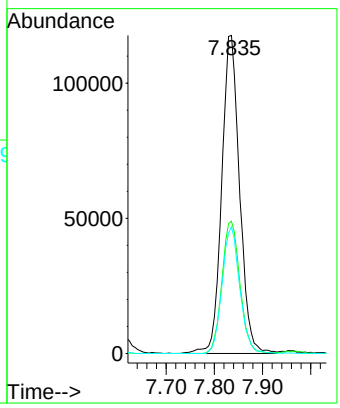




#29
Tetrahydrofuran
Concen: 284.562 ug/l
RT: 7.835 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 42 Resp: 302642

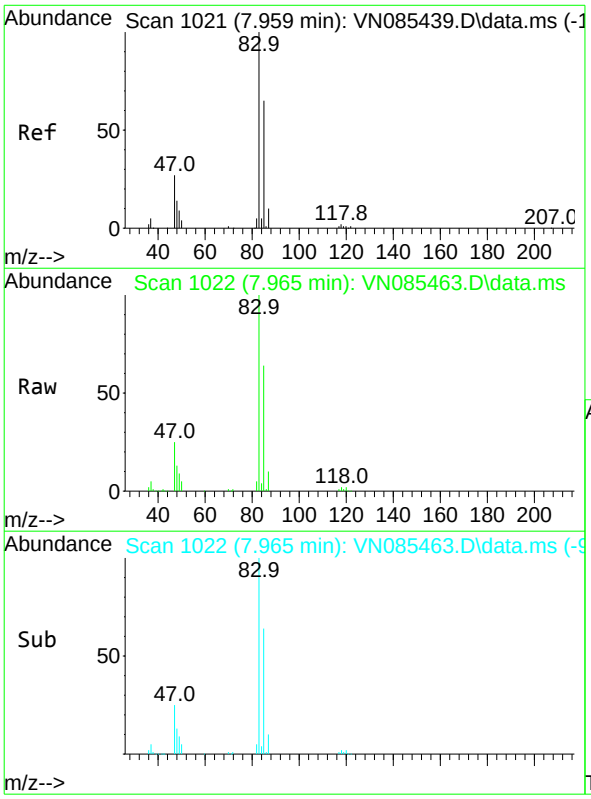
Ion	Ratio	Lower	Upper
42	100		
72	42.0	34.2	51.2
71	39.2	32.5	48.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

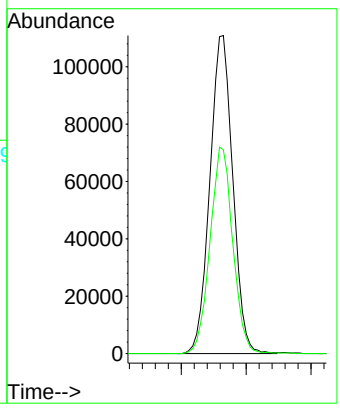
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

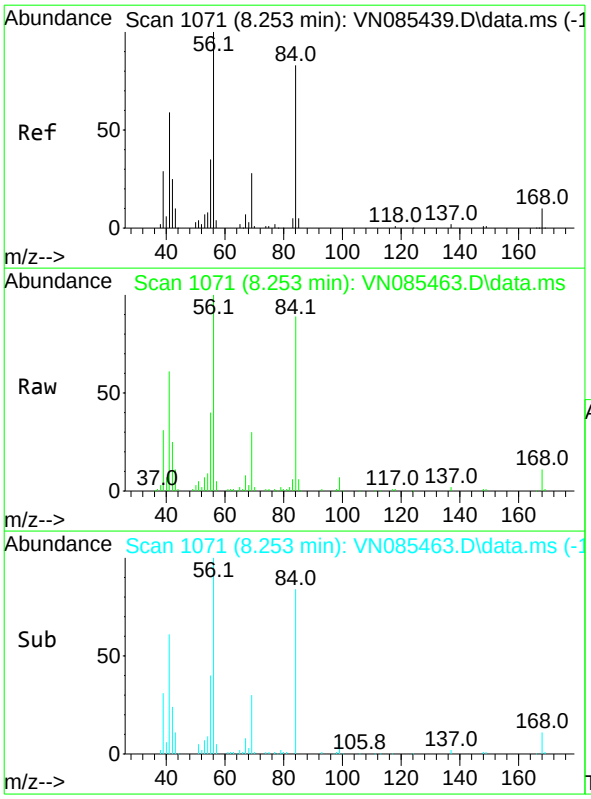


#30
Chloroform
Concen: 51.054 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. 0.006 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 83 Resp: 271813

Ion	Ratio	Lower	Upper
83	100		
85	64.1	51.8	77.6

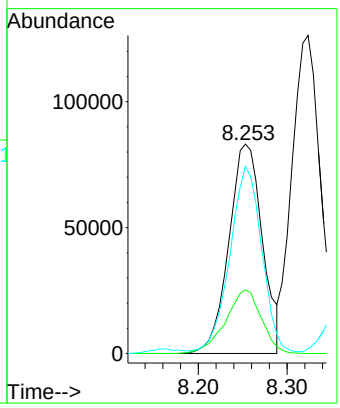




#31
Cyclohexane
Concen: 48.757 ug/l
RT: 8.253 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 56 Resp: 218304

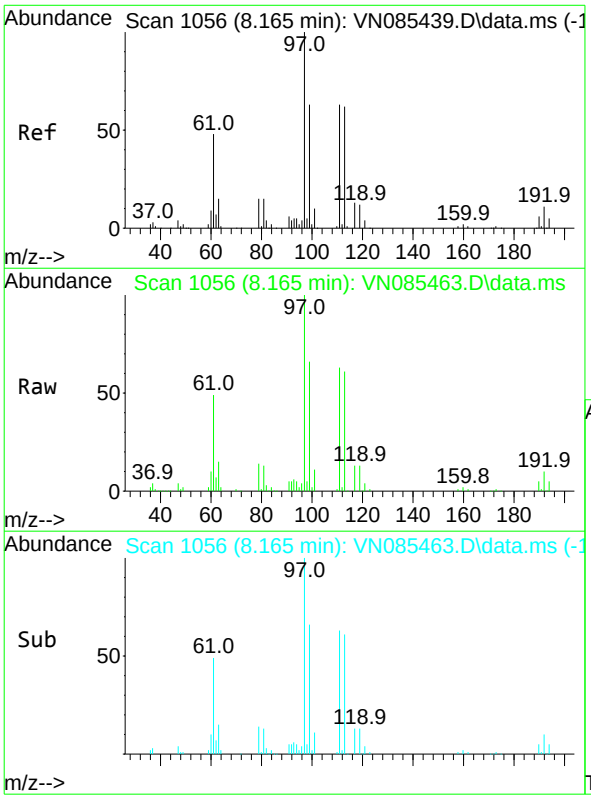
Ion	Ratio	Lower	Upper
56	100		
69	30.4	22.2	33.4
84	87.7	66.4	99.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

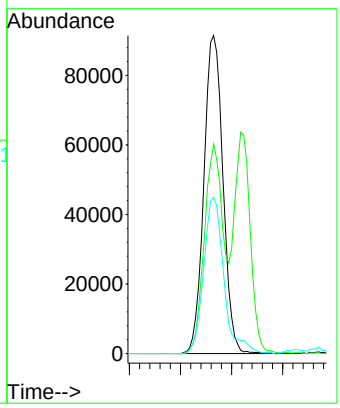
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

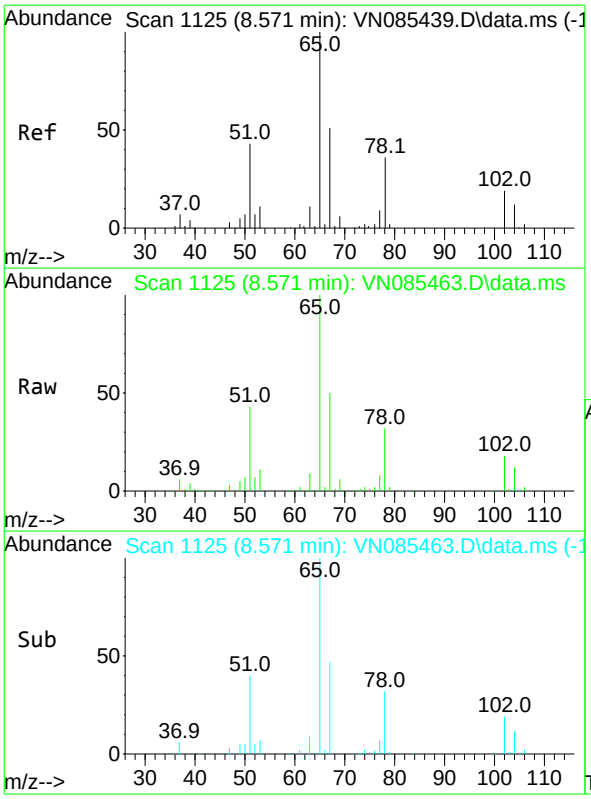


#32
1,1,1-Trichloroethane
Concen: 50.757 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 97 Resp: 237039

Ion	Ratio	Lower	Upper
97	100		
99	65.5	49.8	74.6
61	52.1	41.4	62.2

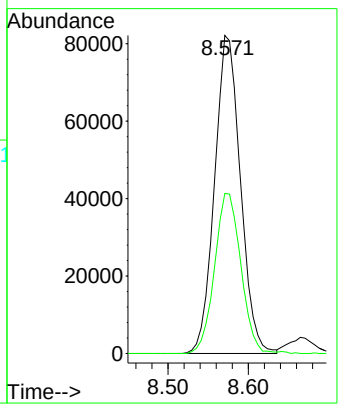




#33
1,2-Dichloroethane-d4
Concen: 52.114 ug/l
RT: 8.571 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 65 Resp: 183857

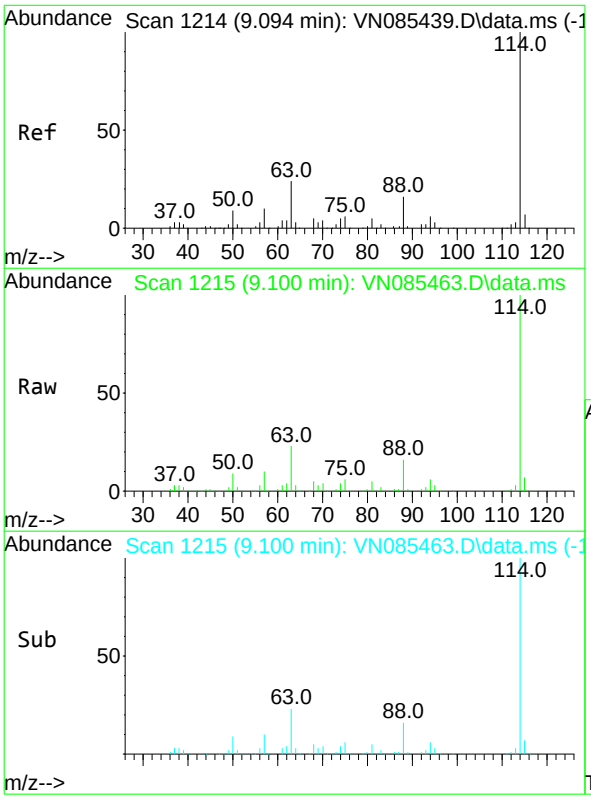
Ion	Ratio	Lower	Upper
65	100		
67	51.2	0.0	101.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

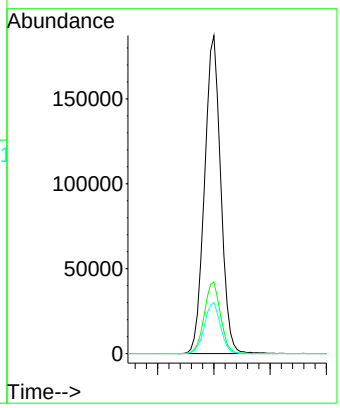
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

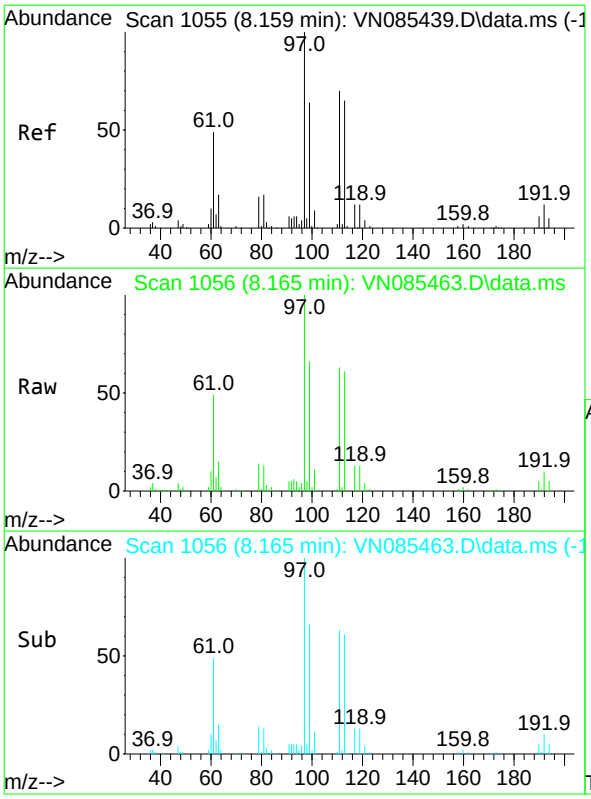


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.006 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion:114 Resp: 374640

Ion	Ratio	Lower	Upper
114	100		
63	22.5	0.0	47.6
88	16.1	0.0	32.6

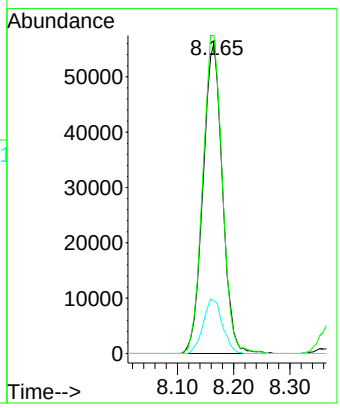




#35
Dibromofluoromethane
Concen: 51.677 ug/l
RT: 8.165 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion:113 Resp: 134312

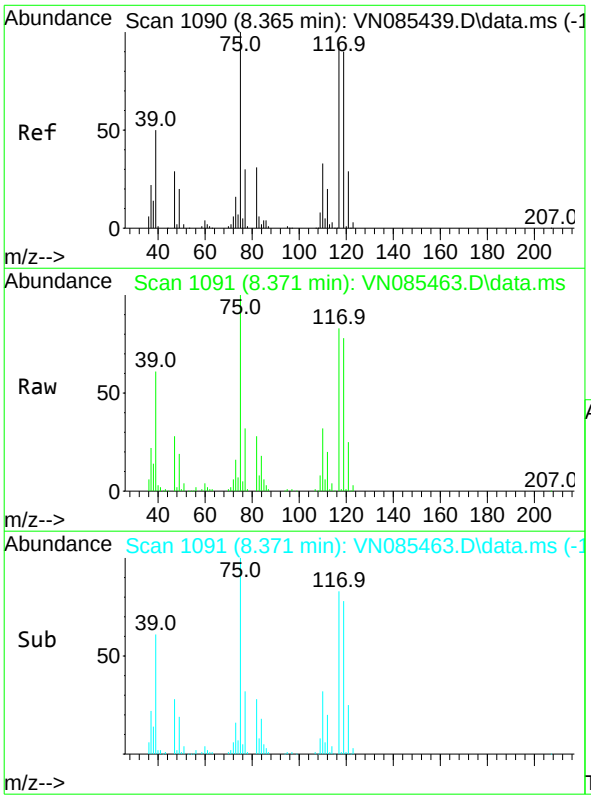
Ion	Ratio	Lower	Upper
113	100		
111	103.3	82.7	124.1
192	17.4	14.3	21.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

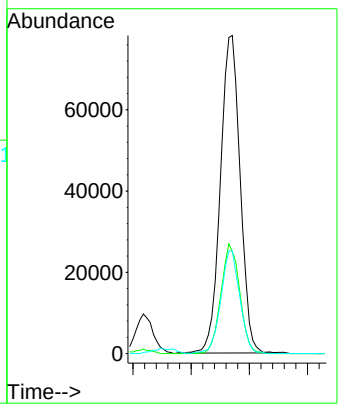
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

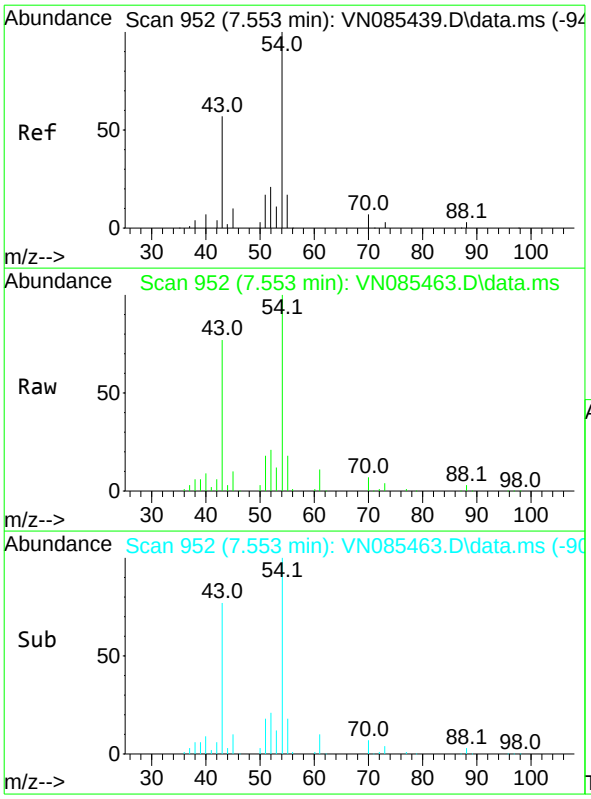


#36
1,1-Dichloropropene
Concen: 50.562 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. 0.006 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 75 Resp: 184438

Ion	Ratio	Lower	Upper
75	100		
110	32.8	16.5	49.5
77	31.2	24.4	36.6





#37
Ethyl Acetate
Concen: 50.810 ug/l
RT: 7.553 min Scan# 95
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

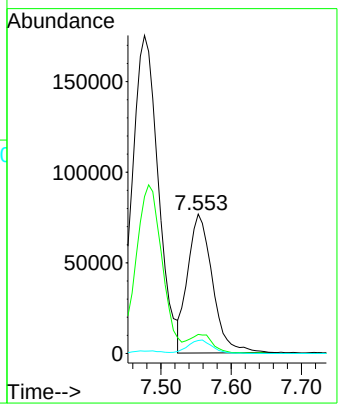
Tgt Ion: 43 Resp: 187078

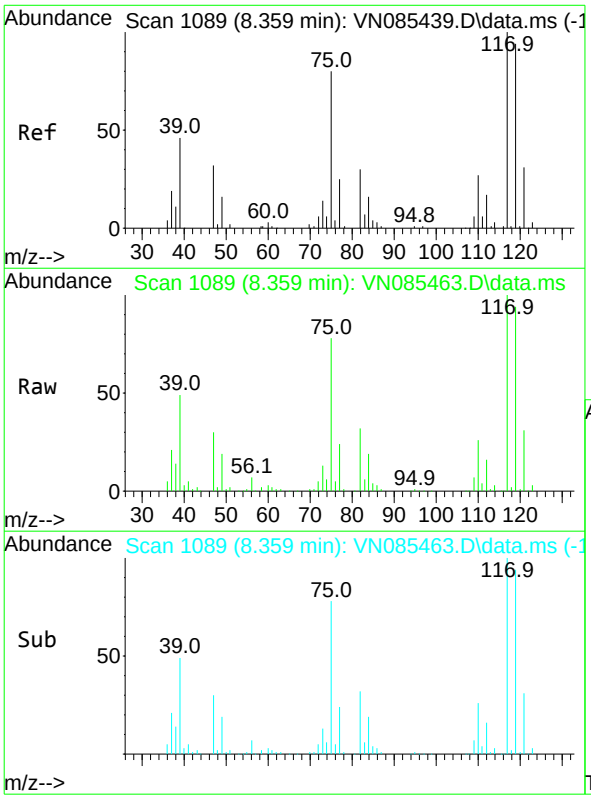
Ion	Ratio	Lower	Upper
43	100		
61	12.1	10.9	16.3
70	9.6	7.5	11.3

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

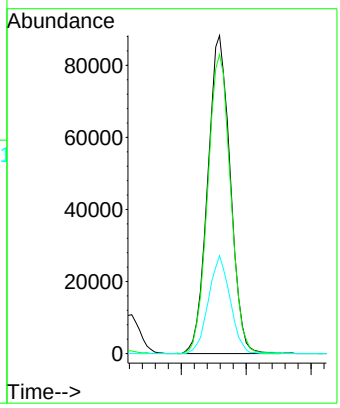


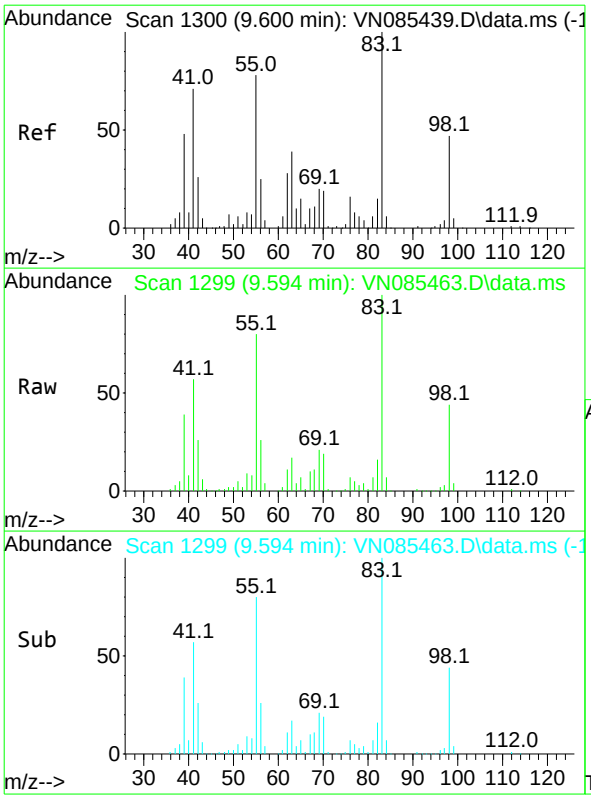


#38
Carbon Tetrachloride
Concen: 50.991 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion:117 Resp: 212942

Ion	Ratio	Lower	Upper
117	100		
119	93.8	75.4	113.2
121	30.8	24.6	37.0

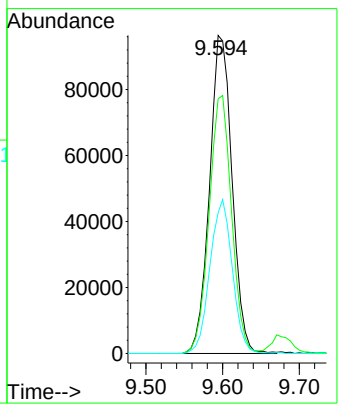




#39
Methylcyclohexane
Concen: 57.436 ug/l
RT: 9.594 min Scan# 12
Delta R.T. -0.006 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 83 Resp: 196879

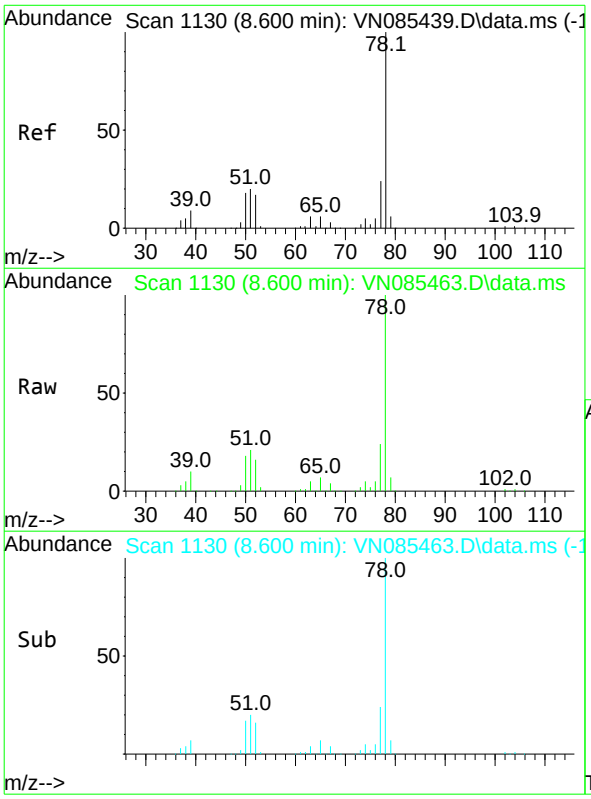
Ion	Ratio	Lower	Upper
83	100		
55	80.1	62.6	94.0
98	44.2	37.7	56.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

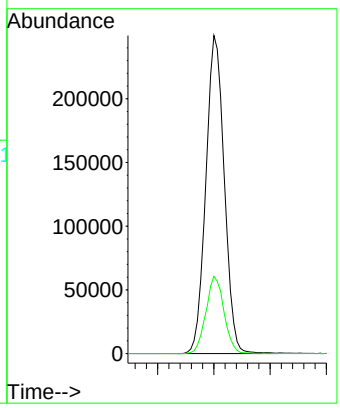
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

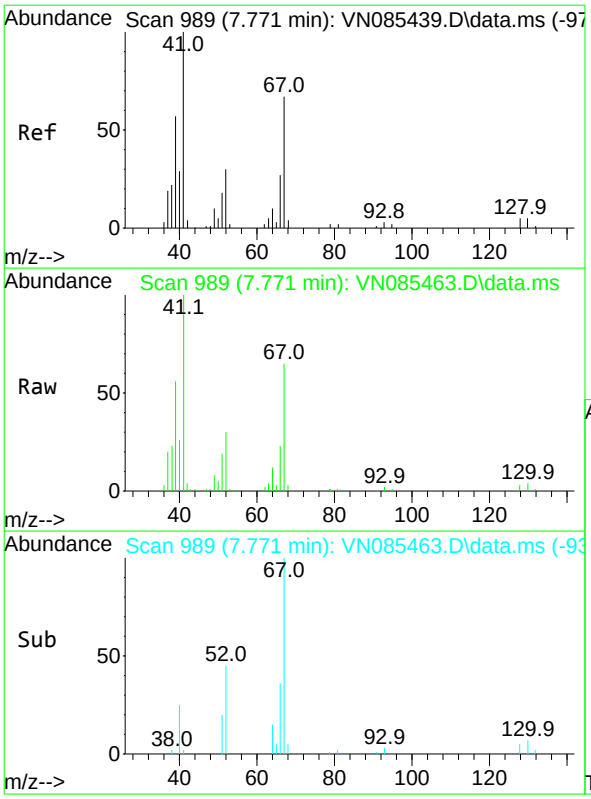


#40
Benzene
Concen: 51.821 ug/l
RT: 8.600 min Scan# 1130
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 78 Resp: 567975

Ion	Ratio	Lower	Upper
78	100		
77	24.3	19.0	28.6

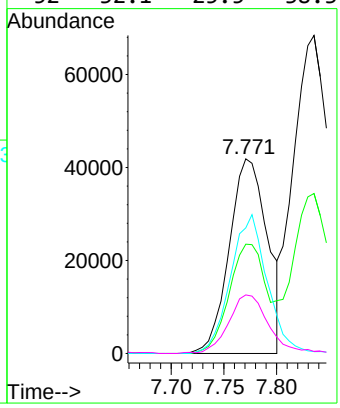




#41
Methacrylonitrile
Concen: 54.981 ug/l
RT: 7.771 min Scan# 98
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 41 Resp: 105319

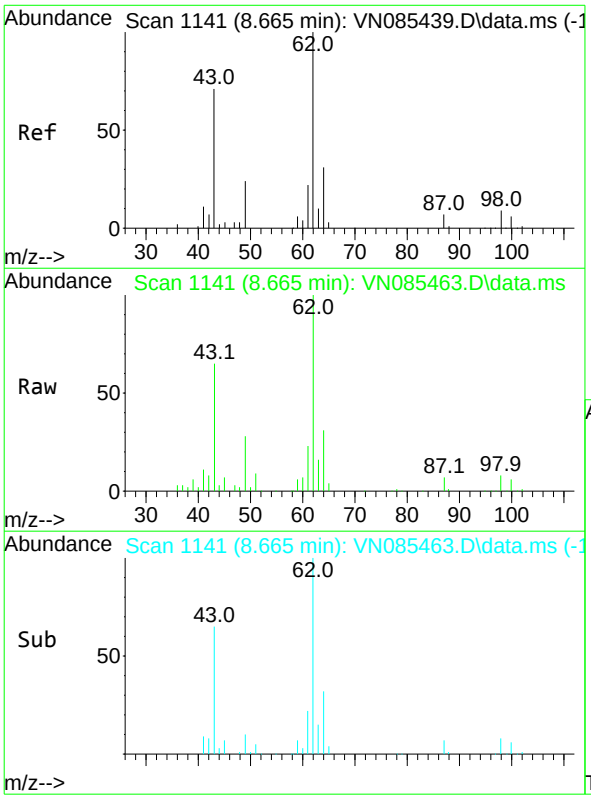
Ion	Ratio	Lower	Upper
41	100		
39	56.3	46.0	69.0
67	68.8	57.4	86.2
52	32.1	25.5	38.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

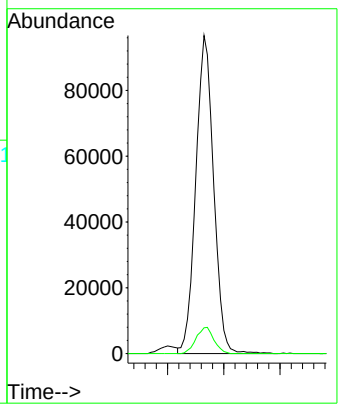
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

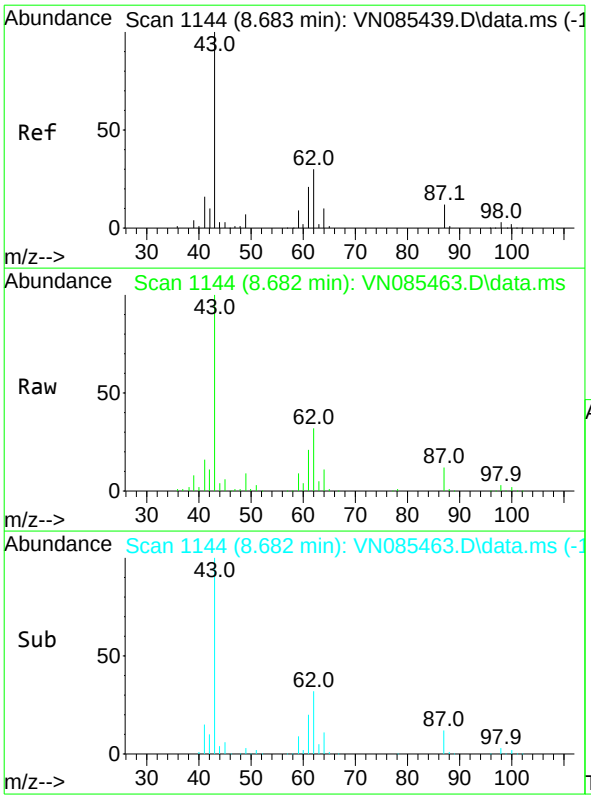


#42
1,2-Dichloroethane
Concen: 51.629 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 62 Resp: 213125

Ion	Ratio	Lower	Upper
62	100		
98	8.2	0.0	17.0

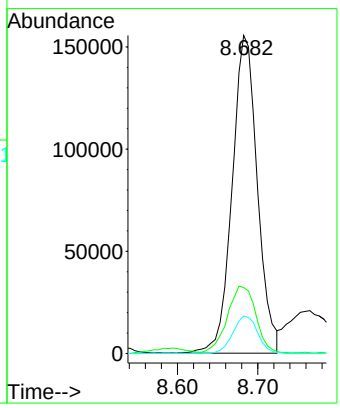




#43
Isopropyl Acetate
Concen: 57.599 ug/l
RT: 8.682 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 43 Resp: 339818

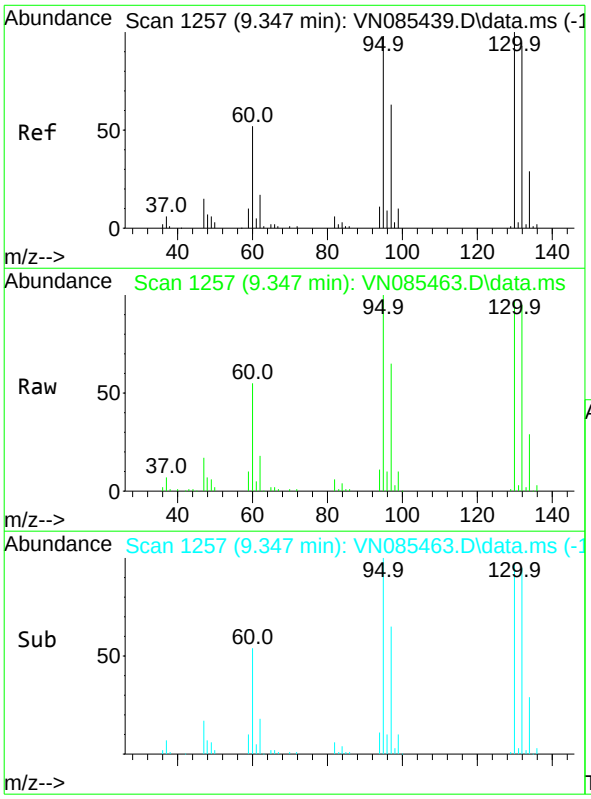
Ion	Ratio	Lower	Upper
43	100		
61	23.7	20.7	31.1
87	11.5	9.8	14.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

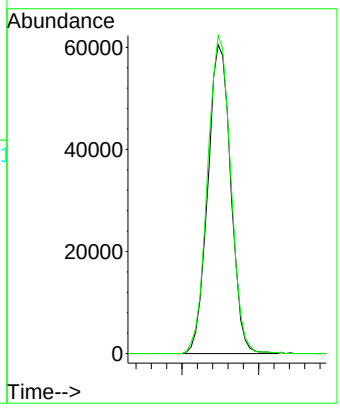
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

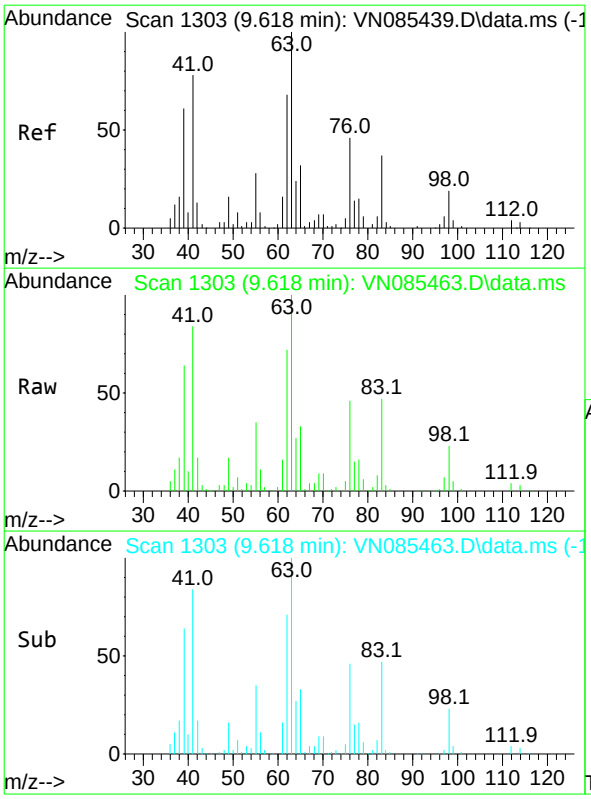


#44
Trichloroethene
Concen: 49.260 ug/l
RT: 9.347 min Scan# 1257
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion:130 Resp: 125677

Ion	Ratio	Lower	Upper
130	100		
95	103.0	0.0	195.8

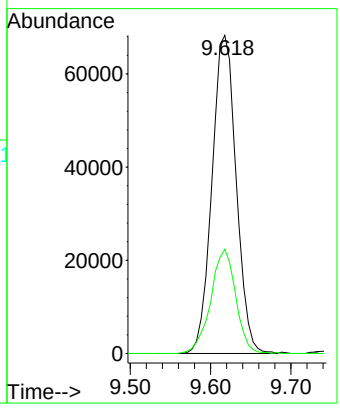




#45
1,2-Dichloropropane
Concen: 51.043 ug/l
RT: 9.618 min Scan# 13
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 63 Resp: 142897

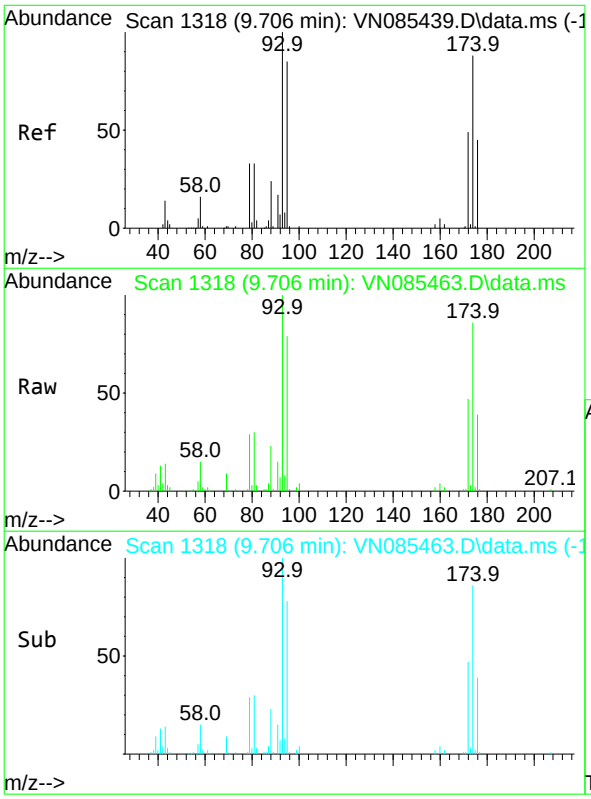
Ion	Ratio	Lower	Upper
63	100		
65	32.7	25.6	38.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

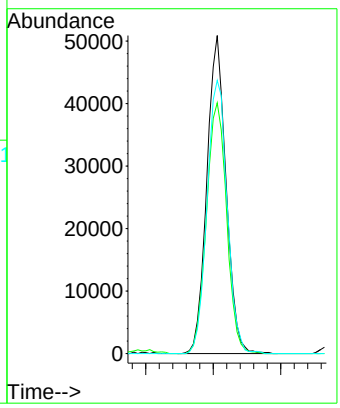
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

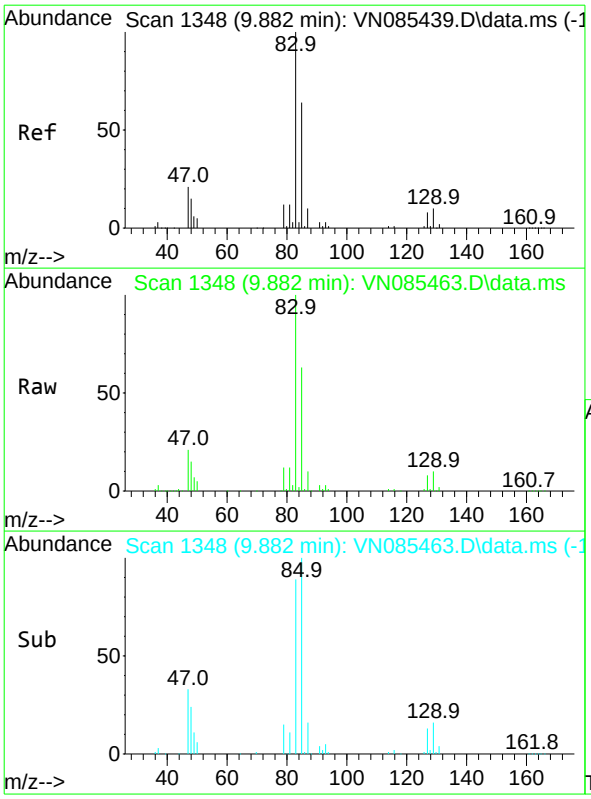


#46
Dibromomethane
Concen: 49.750 ug/l
RT: 9.706 min Scan# 1318
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 93 Resp: 100497

Ion	Ratio	Lower	Upper
93	100		
95	82.8	64.7	97.1
174	90.0	69.0	103.4

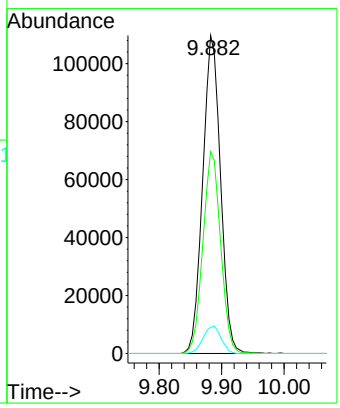




#47
Bromodichloromethane
Concen: 52.814 ug/l
RT: 9.882 min Scan# 13
Delta R.T. 0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 83 Resp: 217353

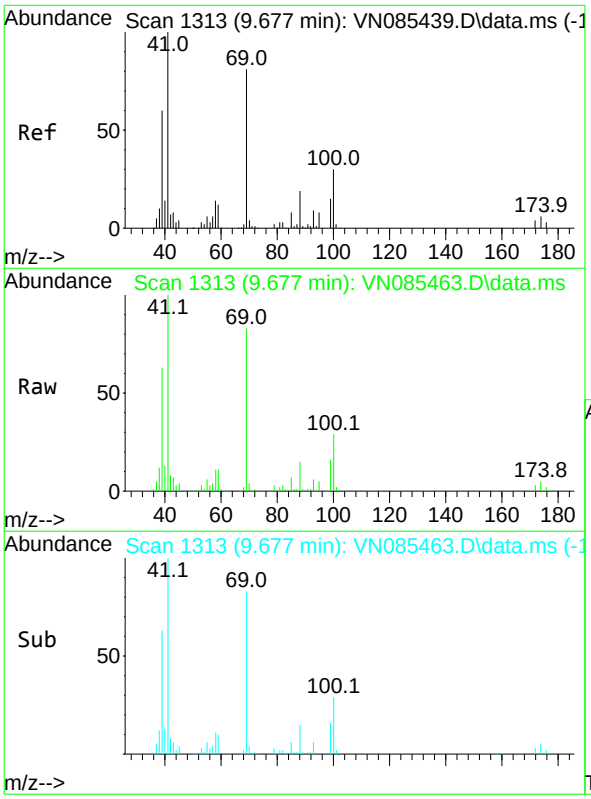
Ion	Ratio	Lower	Upper
83	100		
85	63.5	51.2	76.8
127	8.2	6.5	9.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

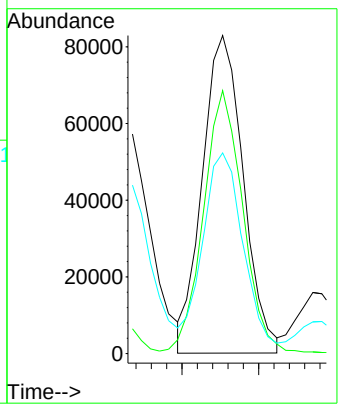
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

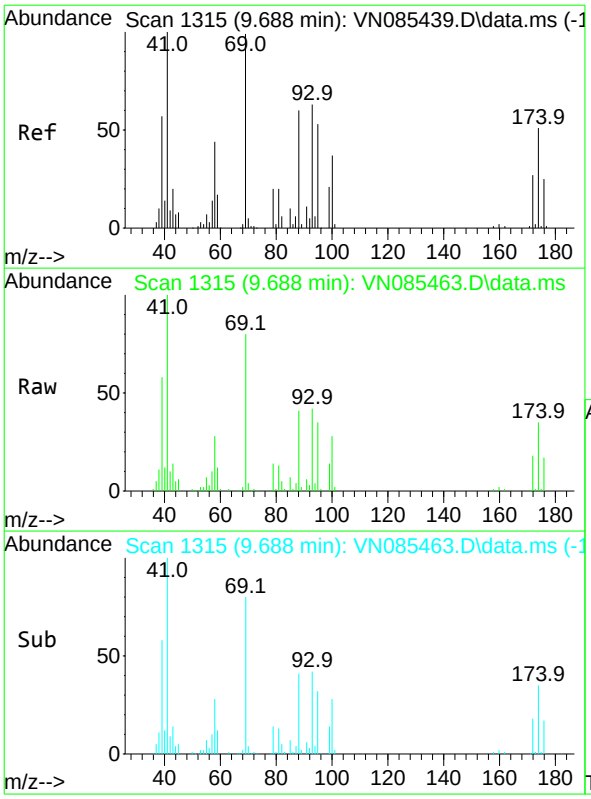


#48
Methyl methacrylate
Concen: 57.796 ug/l
RT: 9.677 min Scan# 1313
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 41 Resp: 153447

Ion	Ratio	Lower	Upper
41	100		
69	80.2	64.7	97.1
39	63.2	49.0	73.6

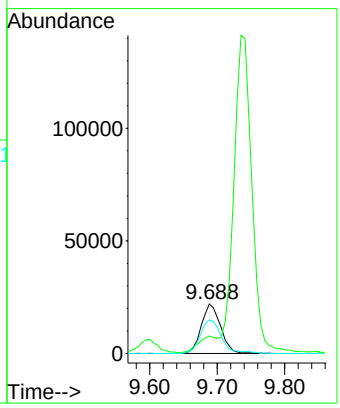




#49
1,4-Dioxane
Concen: 972.836 ug/l
RT: 9.688 min Scan# 13
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 88 Resp: 43495

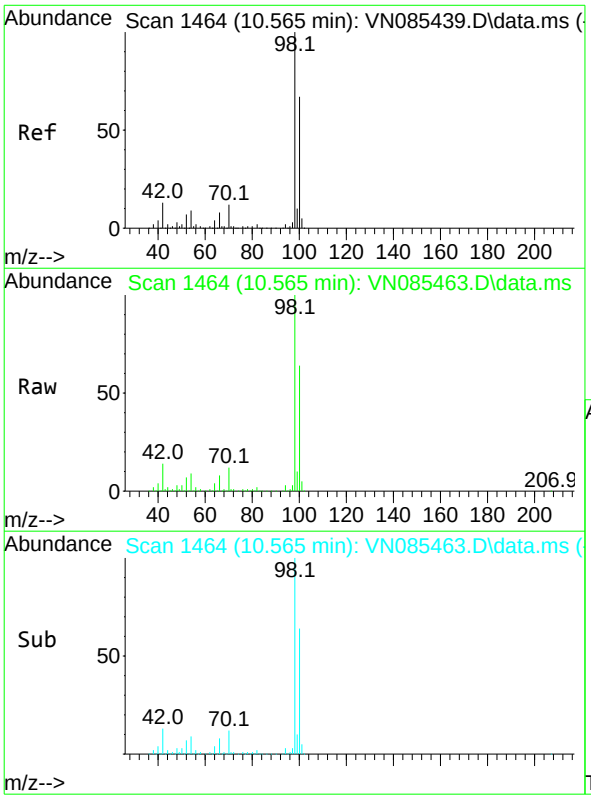
Ion	Ratio	Lower	Upper
88	100		
43	32.9	26.6	39.8
58	75.2	59.5	89.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

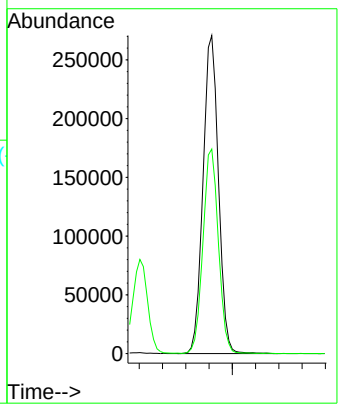
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

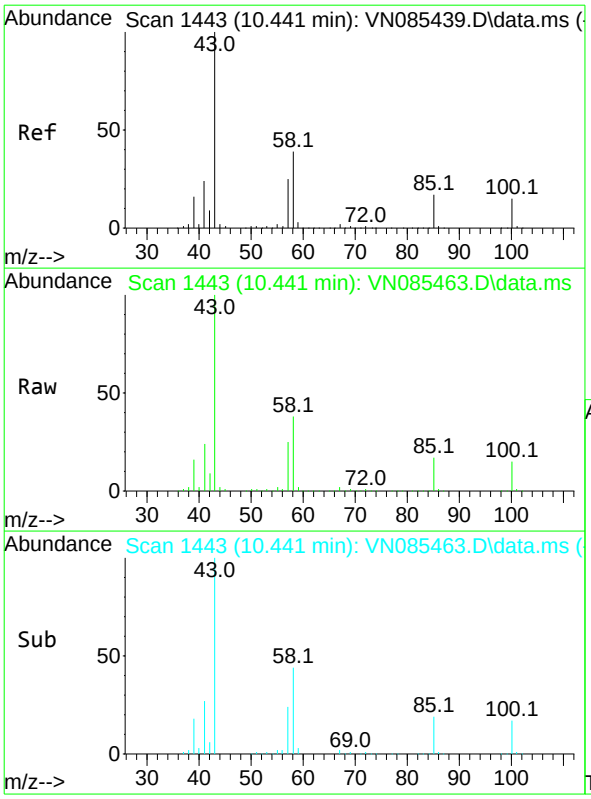


#50
Toluene-d8
Concen: 54.009 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 98 Resp: 498748

Ion	Ratio	Lower	Upper
98	100		
100	64.2	52.2	78.4

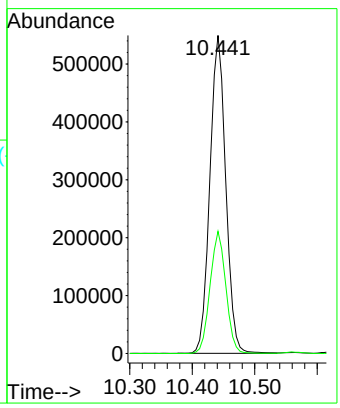




#51
4-Methyl-2-Pentanone
Concen: 282.679 ug/l
RT: 10.441 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 43 Resp: 967748

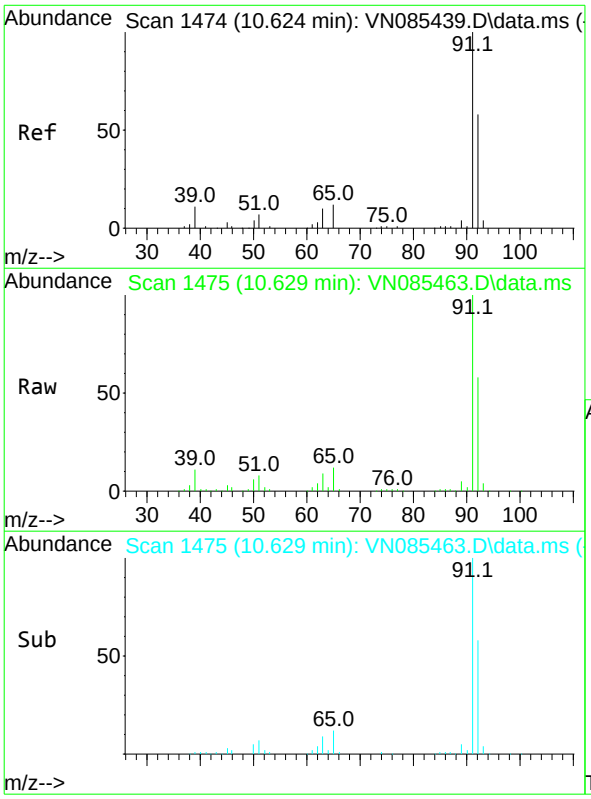
Ion	Ratio	Lower	Upper
43	100		
58	38.2	30.5	45.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

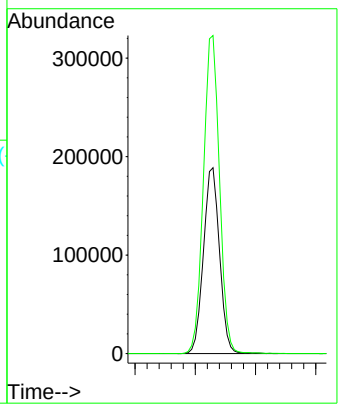
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

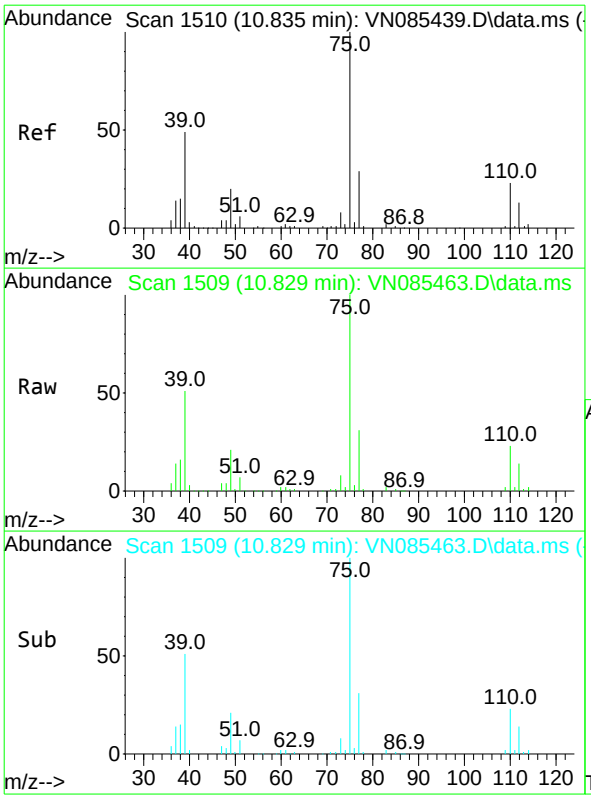


#52
Toluene
Concen: 55.032 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.005 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 92 Resp: 349488

Ion	Ratio	Lower	Upper
92	100		
91	171.6	139.2	208.8

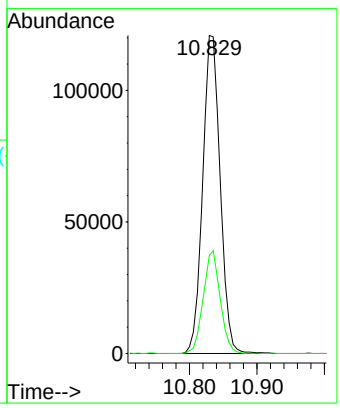




#53
t-1,3-Dichloropropene
Concen: 55.946 ug/l
RT: 10.829 min Scan# 15
Delta R.T. -0.006 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 75 Resp: 217586

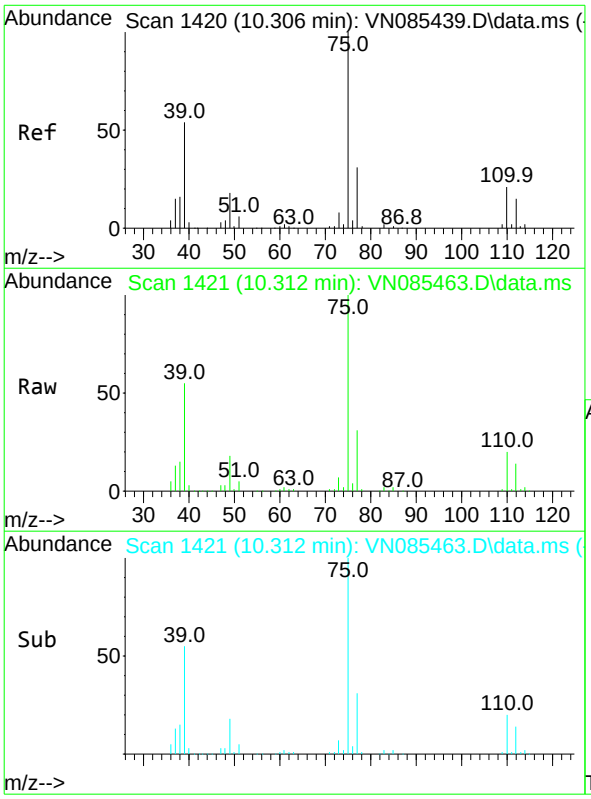
Ion	Ratio	Lower	Upper
75	100		
77	30.8	23.5	35.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

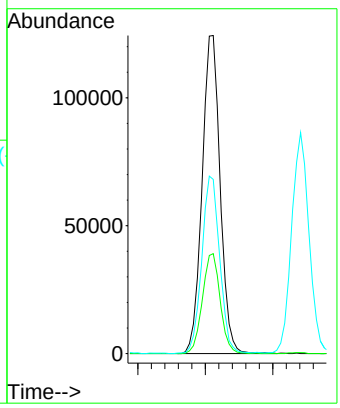
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

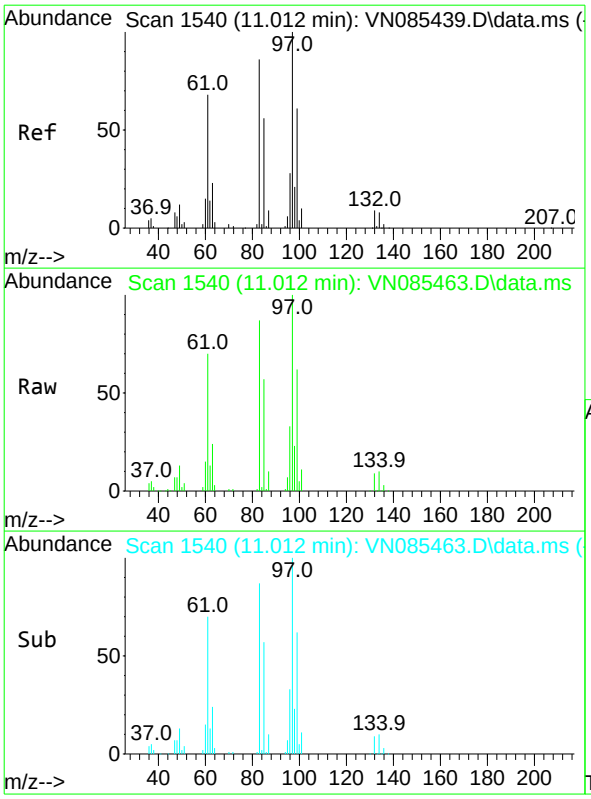


#54
cis-1,3-Dichloropropene
Concen: 55.661 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.006 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 75 Resp: 231235

Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.0	37.4
39	54.6	43.1	64.7

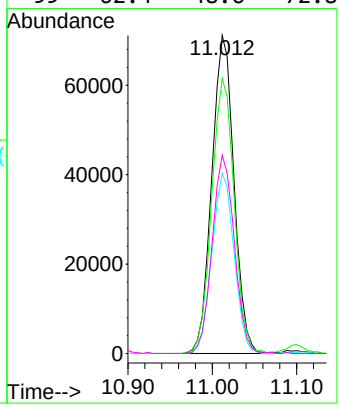




#55
1,1,2-Trichloroethane
Concen: 51.759 ug/l
RT: 11.012 min Scan# 15
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 97 Resp: 130083

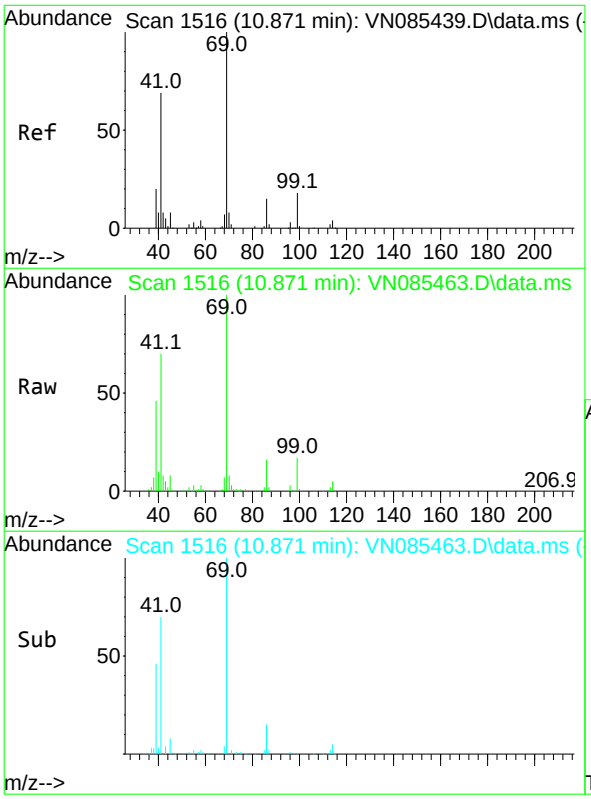
Ion	Ratio	Lower	Upper
97	100		
83	86.5	69.0	103.6
85	56.7	44.6	66.8
99	62.4	48.6	72.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

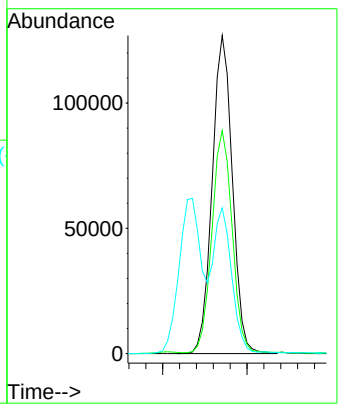
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

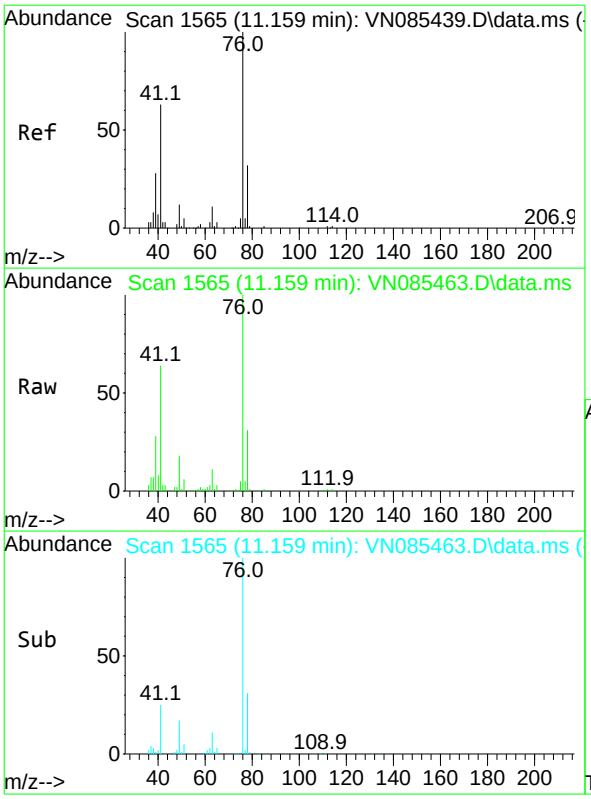


#56
Ethyl methacrylate
Concen: 49.885 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 69 Resp: 211176

Ion	Ratio	Lower	Upper
69	100		
41	70.3	54.6	82.0
39	41.5	32.4	48.6

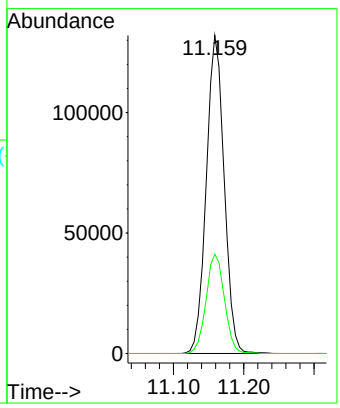




#57
1,3-Dichloropropane
Concen: 53.338 ug/l
RT: 11.159 min Scan# 15
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 76 Resp: 233088

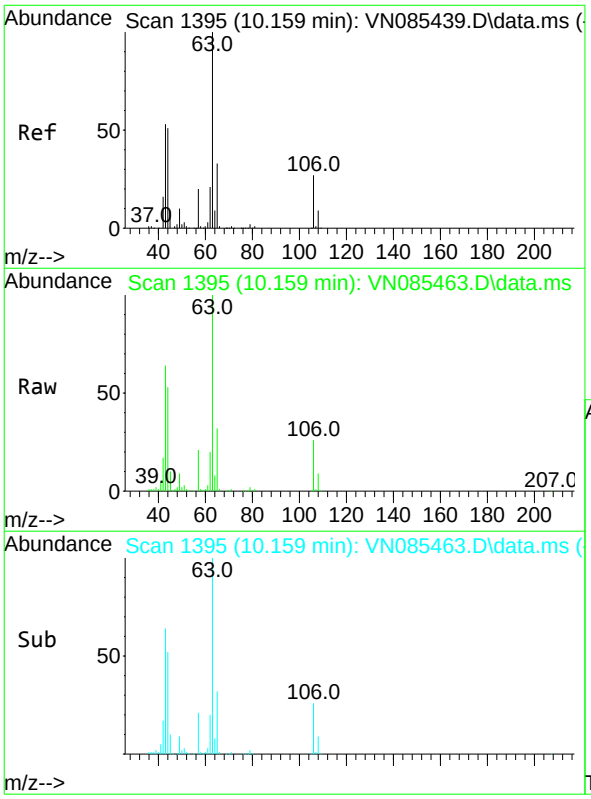
Ion	Ratio	Lower	Upper
76	100		
78	32.0	25.6	38.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

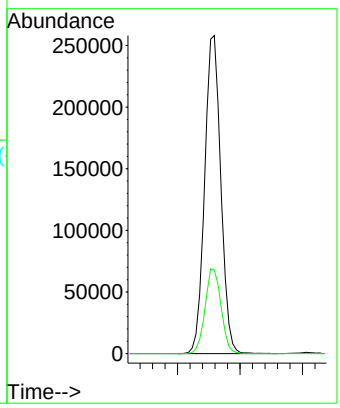
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

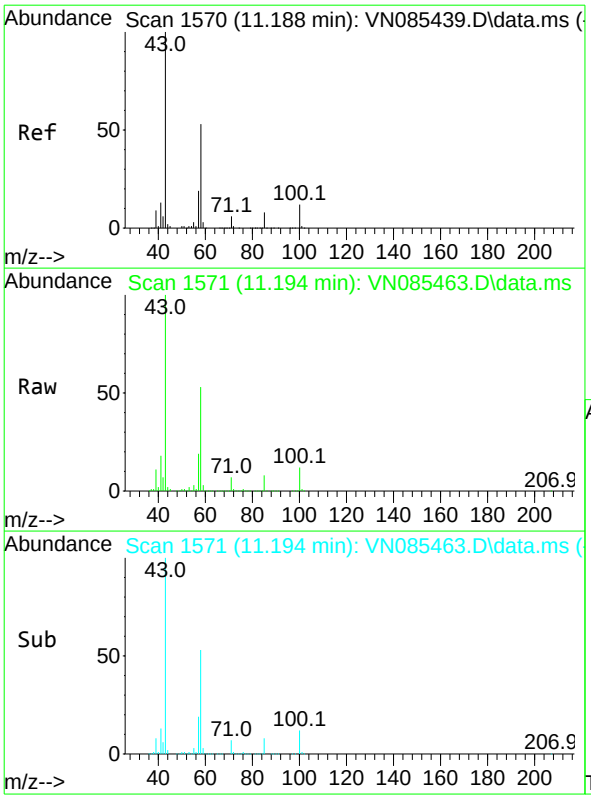


#58
2-Chloroethyl Vinyl ether
Concen: 290.228 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 63 Resp: 462882

Ion	Ratio	Lower	Upper
63	100		
106	26.4	21.6	32.4

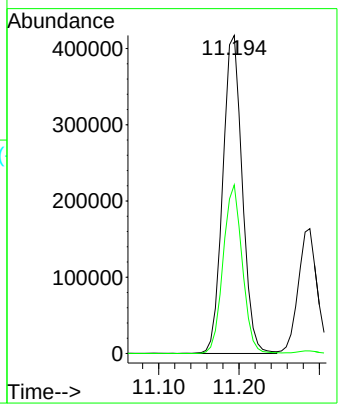




#59
2-Hexanone
Concen: 292.136 ug/l
RT: 11.194 min Scan# 15
Delta R.T. 0.006 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 43 Resp: 703719

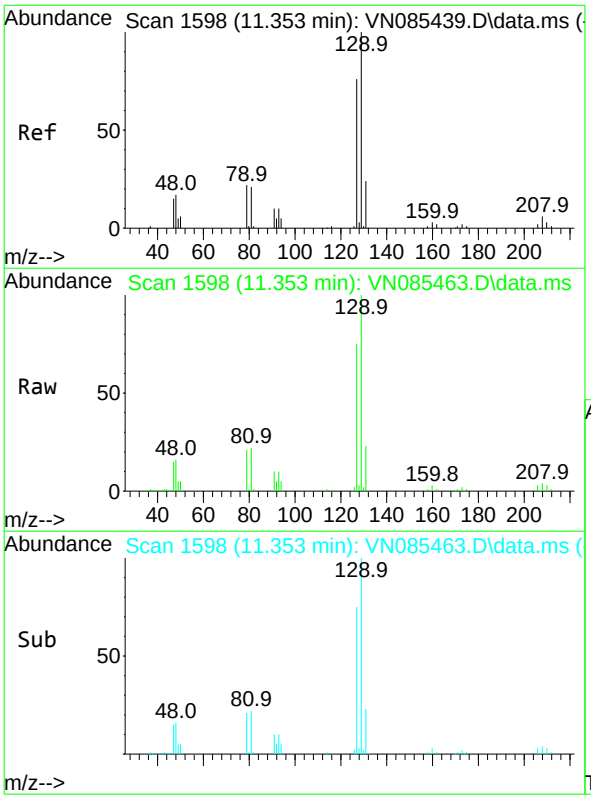
Ion	Ratio	Lower	Upper
43	100		
58	52.0	26.2	78.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

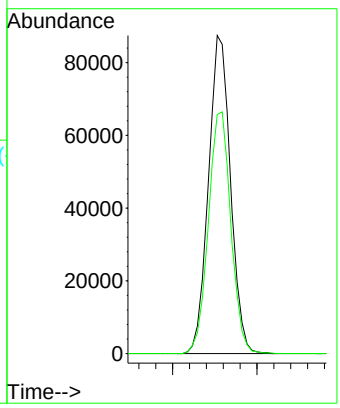
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

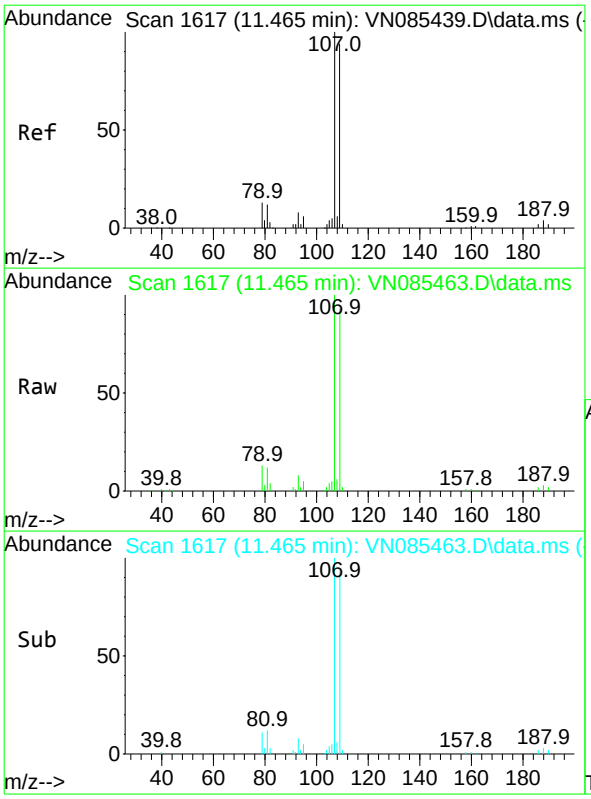


#60
Dibromochloromethane
Concen: 52.339 ug/l
RT: 11.353 min Scan# 1598
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion:129 Resp: 158806

Ion	Ratio	Lower	Upper
129	100		
127	77.4	38.6	115.8

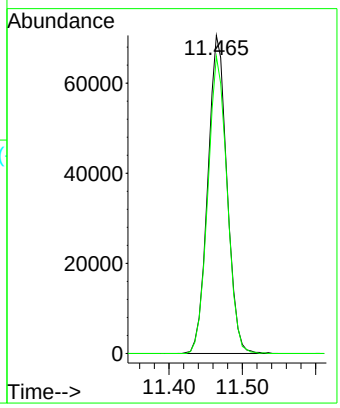




#61
1,2-Dibromoethane
Concen: 51.040 ug/l
RT: 11.465 min Scan# 16
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion:107 Resp: 127688

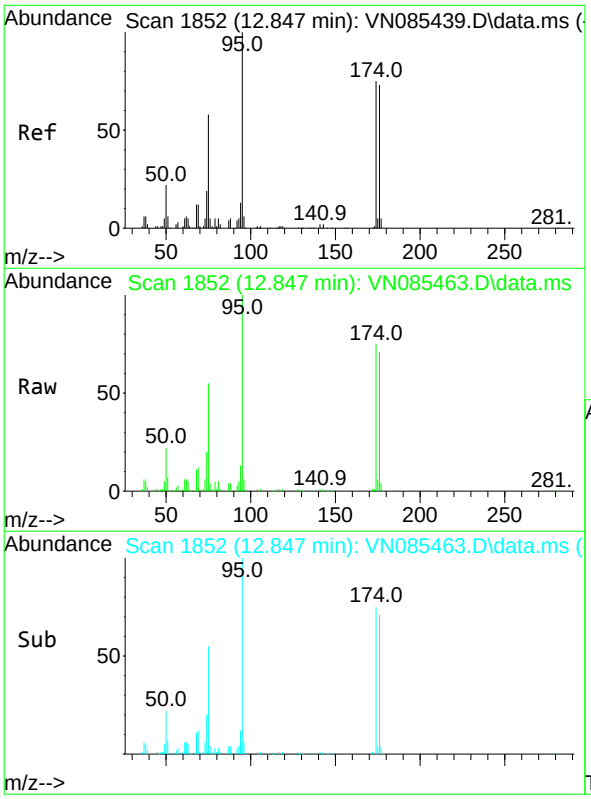
Ion	Ratio	Lower	Upper
107	100		
109	94.2	75.9	113.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

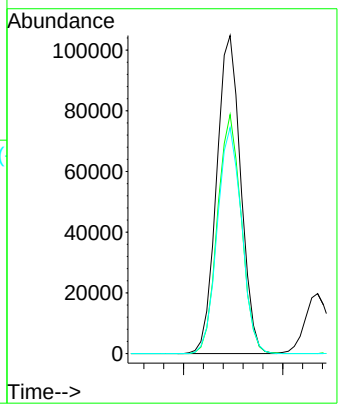
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

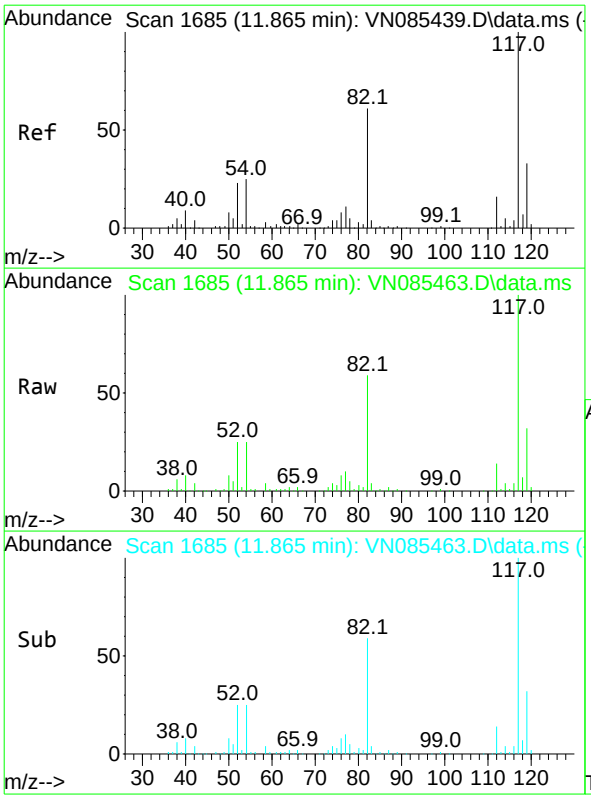


#62
4-Bromofluorobenzene
Concen: 56.127 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 95 Resp: 177300

Ion	Ratio	Lower	Upper
95	100		
174	73.9	0.0	145.0
176	71.4	0.0	142.4

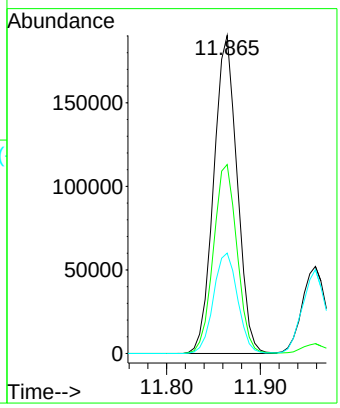




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 16
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion:117 Resp: 330319

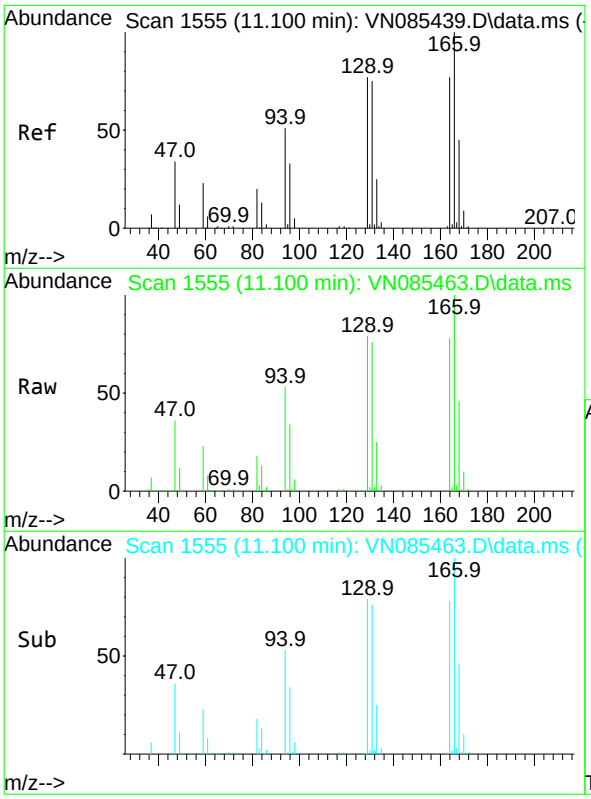
Ion	Ratio	Lower	Upper
117	100		
82	59.4	48.6	72.8
119	31.6	26.6	39.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

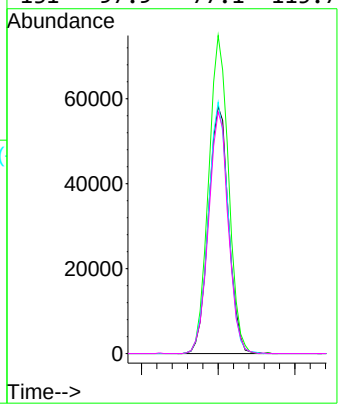
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

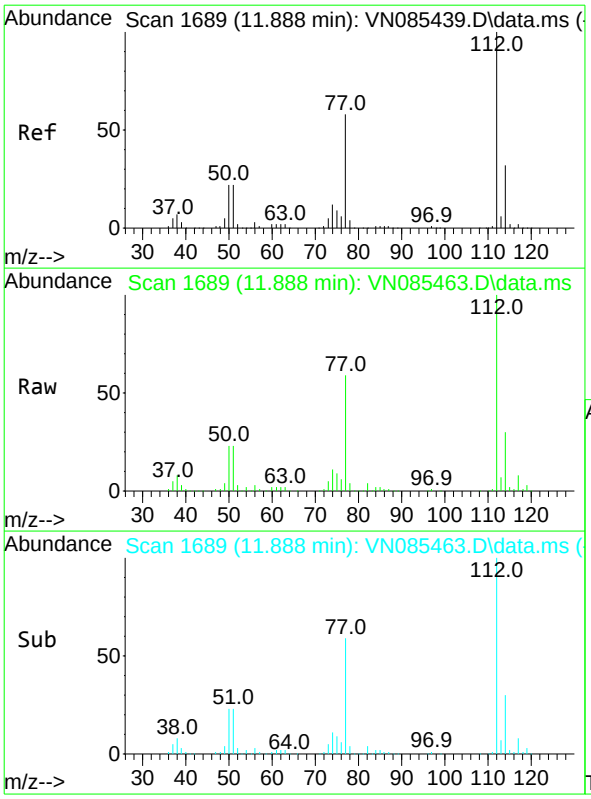


#64
Tetrachloroethene
Concen: 47.207 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion:164 Resp: 106305

Ion	Ratio	Lower	Upper
164	100		
166	128.8	103.4	155.2
129	101.8	79.2	118.8
131	97.9	77.1	115.7

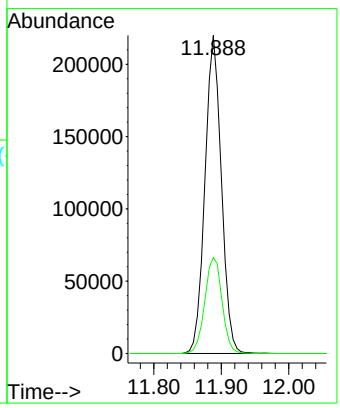




#65
Chlorobenzene
Concen: 51.313 ug/l
RT: 11.888 min Scan# 16
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion:112 Resp: 371312

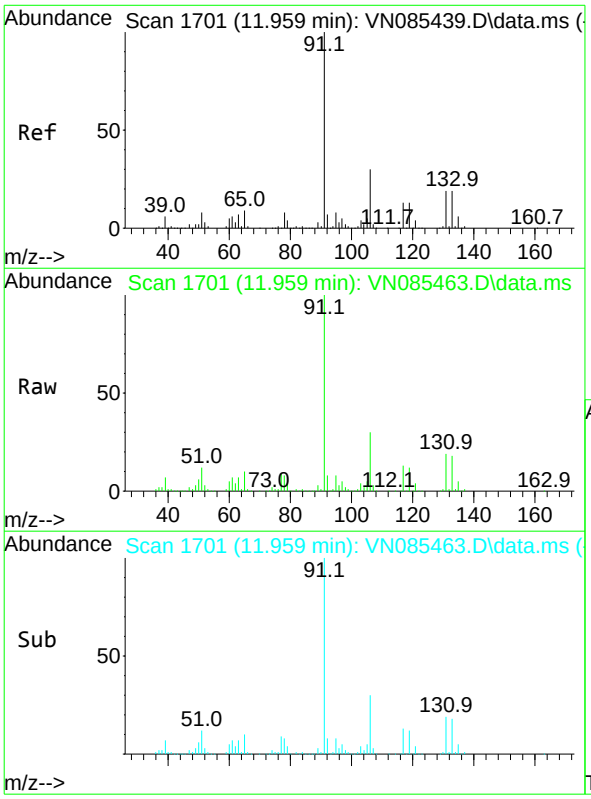
Ion	Ratio	Lower	Upper
112	100		
114	30.2	25.3	37.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

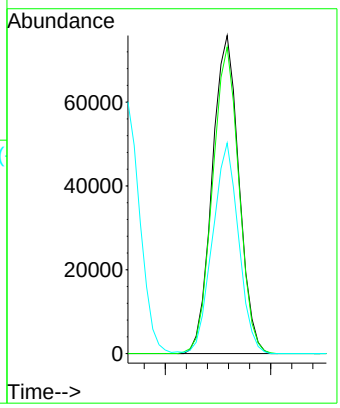
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

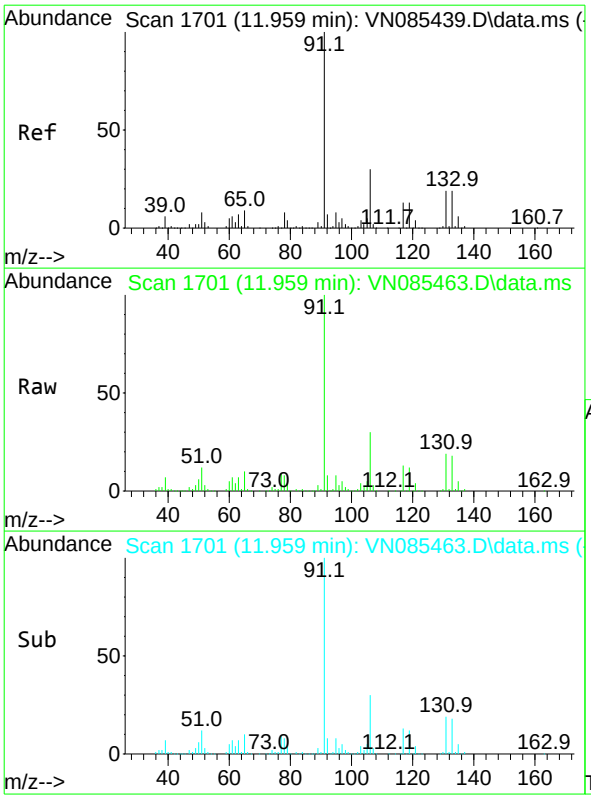


#66
1,1,1,2-Tetrachloroethane
Concen: 50.351 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion:131 Resp: 133724

Ion	Ratio	Lower	Upper
131	100		
133	95.2	47.4	142.3
119	64.4	33.1	99.5

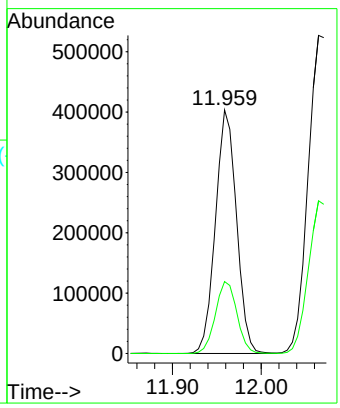




#67
Ethyl Benzene
Concen: 56.469 ug/l
RT: 11.959 min Scan# 17
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 91 Resp: 665536

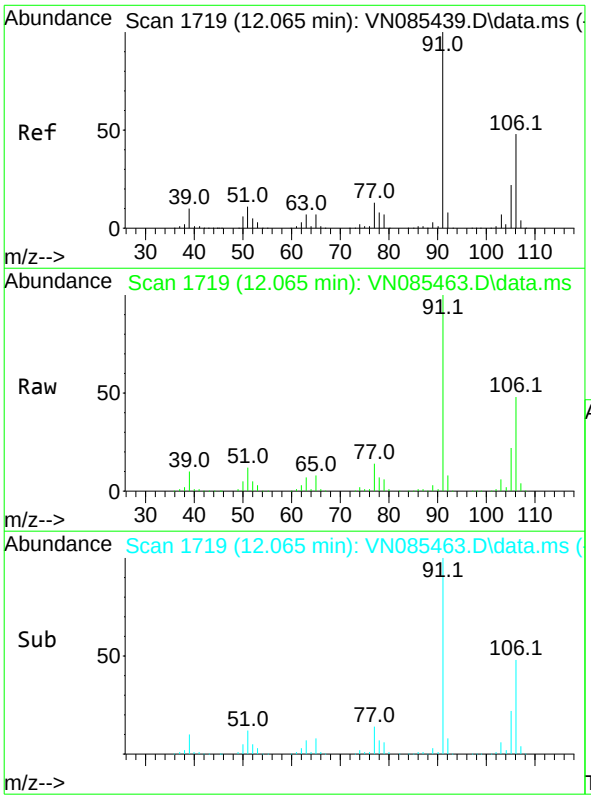
Ion	Ratio	Lower	Upper
91	100		
106	29.5	23.8	35.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

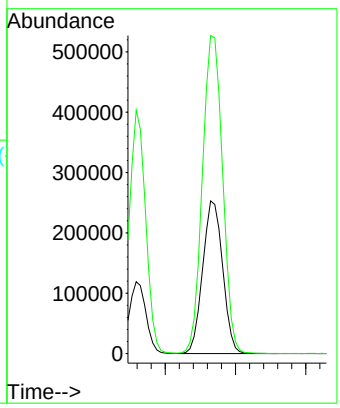
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

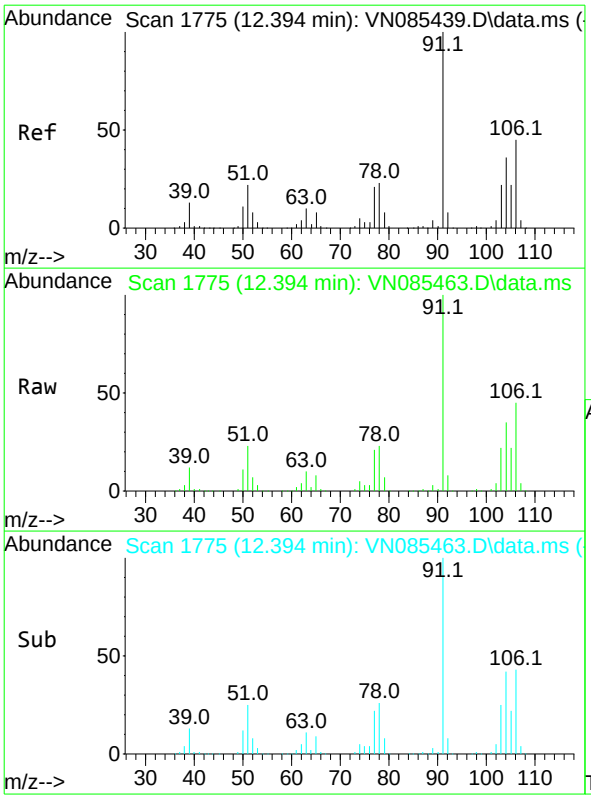


#68
m/p-Xylenes
Concen: 114.541 ug/l
RT: 12.065 min Scan# 1719
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion:106 Resp: 498925

Ion	Ratio	Lower	Upper
106	100		
91	210.4	167.7	251.5

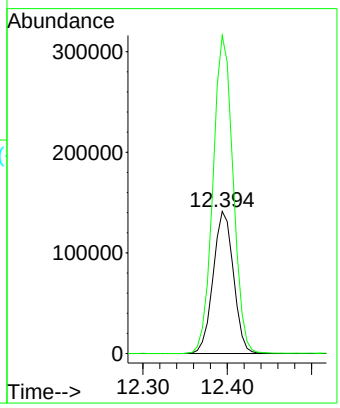




#69
o-Xylene
Concen: 56.724 ug/l
RT: 12.394 min Scan# 17
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion:106 Resp: 236130

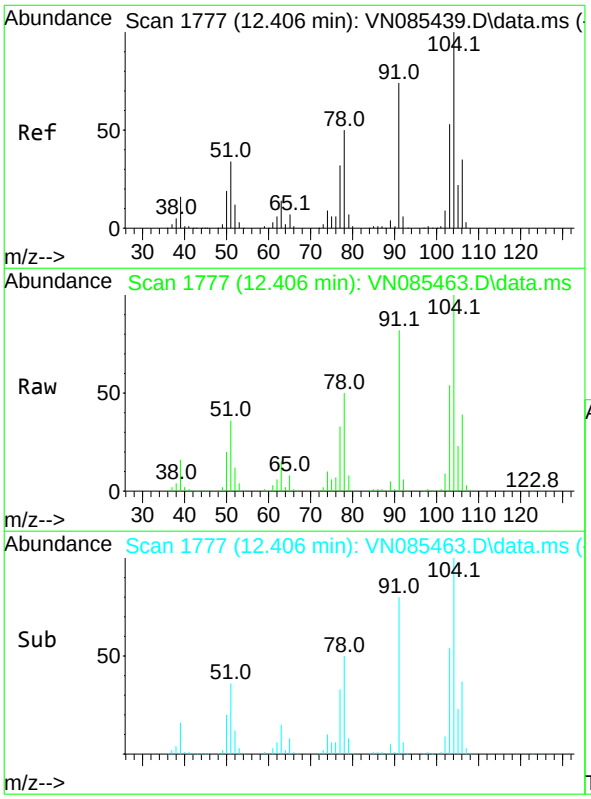
Ion	Ratio	Lower	Upper
106	100		
91	222.0	110.4	331.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

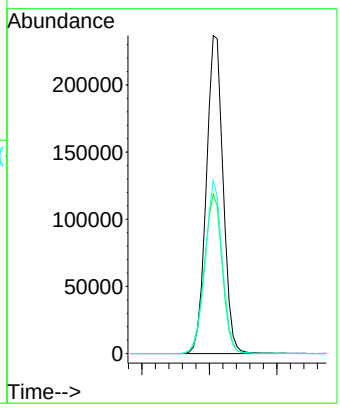
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

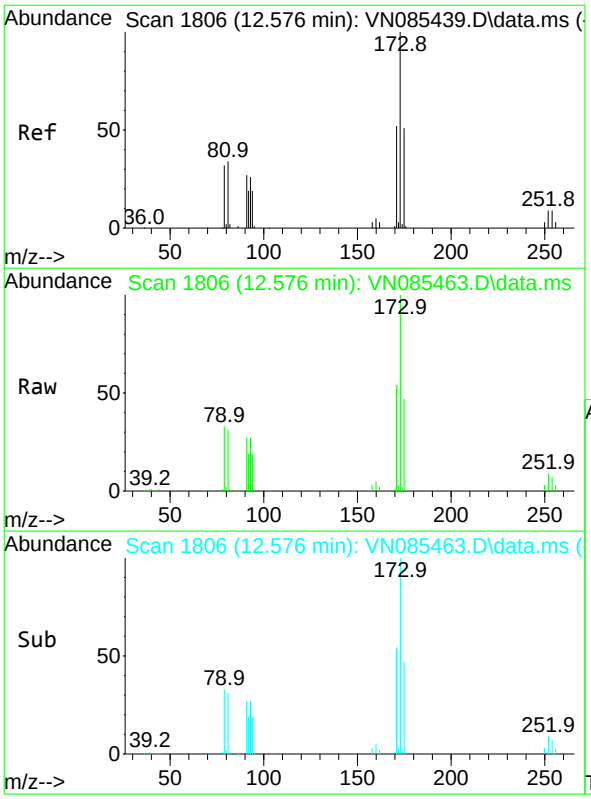


#70
Styrene
Concen: 59.312 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion:104 Resp: 408614

Ion	Ratio	Lower	Upper
104	100		
78	53.4	42.5	63.7
103	55.4	43.8	65.8

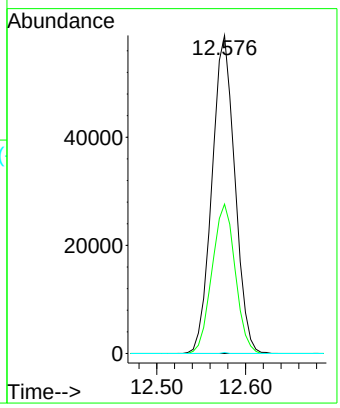




#71
Bromoform
Concen: 55.344 ug/l
RT: 12.576 min Scan# 18
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion:173 Resp: 105169

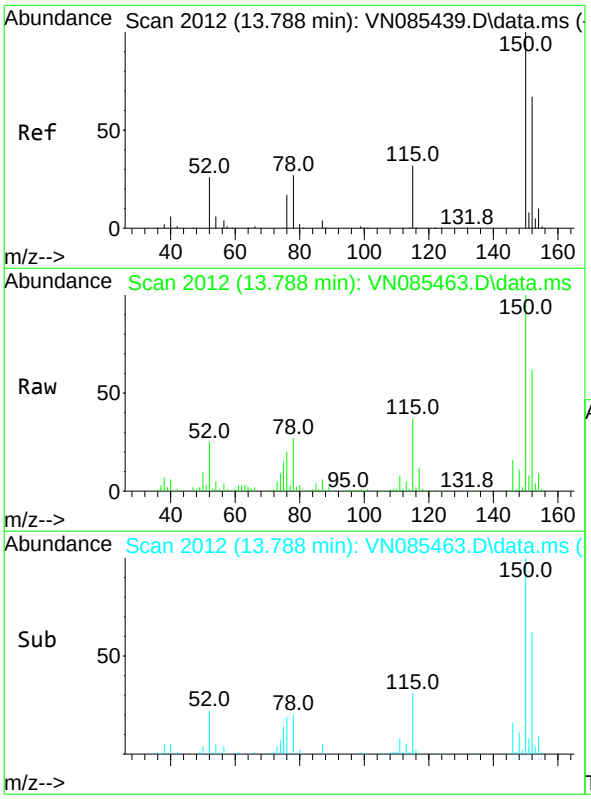
Ion	Ratio	Lower	Upper
173	100		
175	47.5	24.4	73.2
254	0.1	0.0	0.0#



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

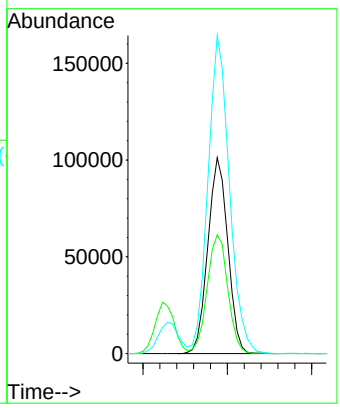
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

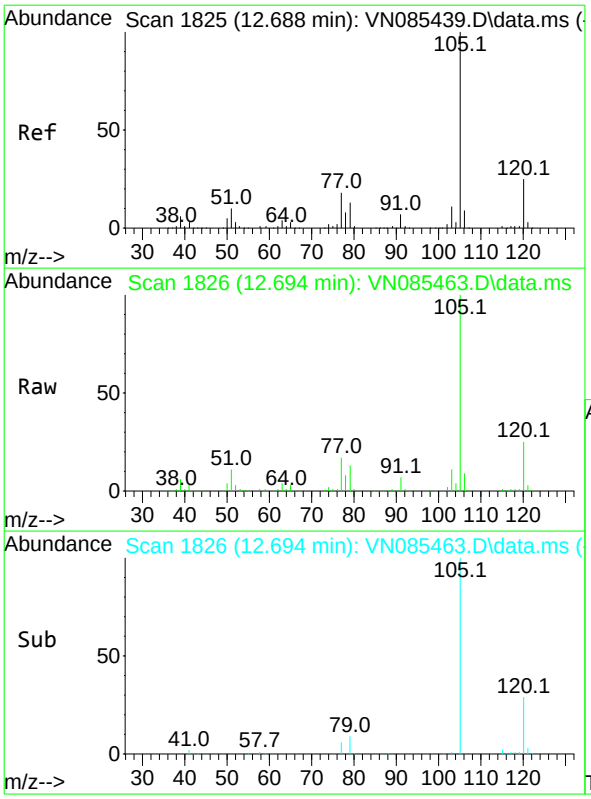


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion:152 Resp: 166317

Ion	Ratio	Lower	Upper
152	100		
115	62.7	31.1	93.3
150	174.6	0.0	343.6

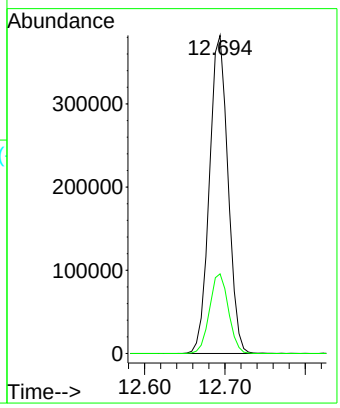




#73
Isopropylbenzene
Concen: 54.752 ug/l
RT: 12.694 min Scan# 18
Delta R.T. 0.006 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion:105 Resp: 614595

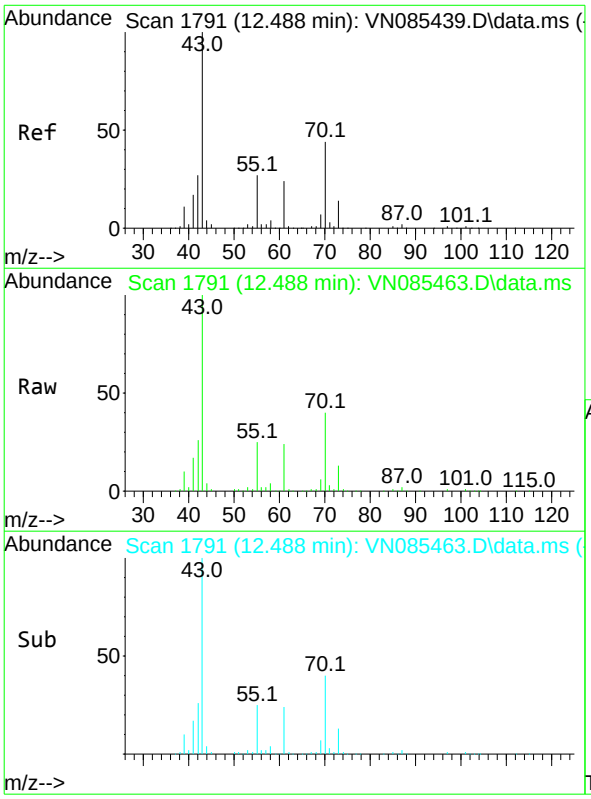
Ion	Ratio	Lower	Upper
105	100		
120	25.5	12.8	38.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

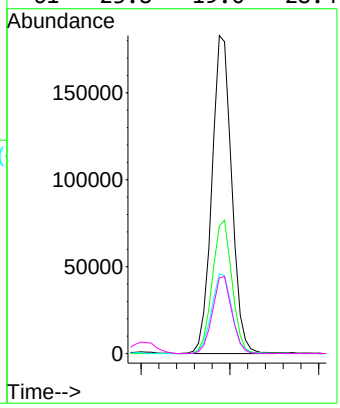
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

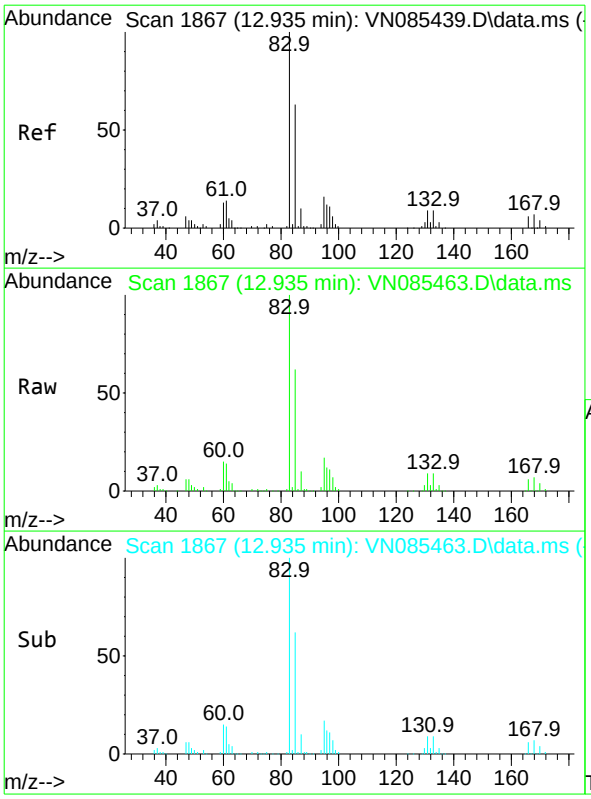


#74
N-amyl acetate
Concen: 56.244 ug/l
RT: 12.488 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 43 Resp: 283775

Ion	Ratio	Lower	Upper
43	100		
70	41.8	34.0	51.0
55	25.9	21.4	32.2
61	23.8	19.0	28.4

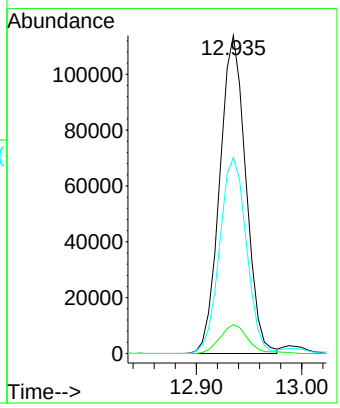




#75
1,1,2,2-Tetrachloroethane
Concen: 49.296 ug/l
RT: 12.935 min Scan# 18
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 83 Resp: 195465

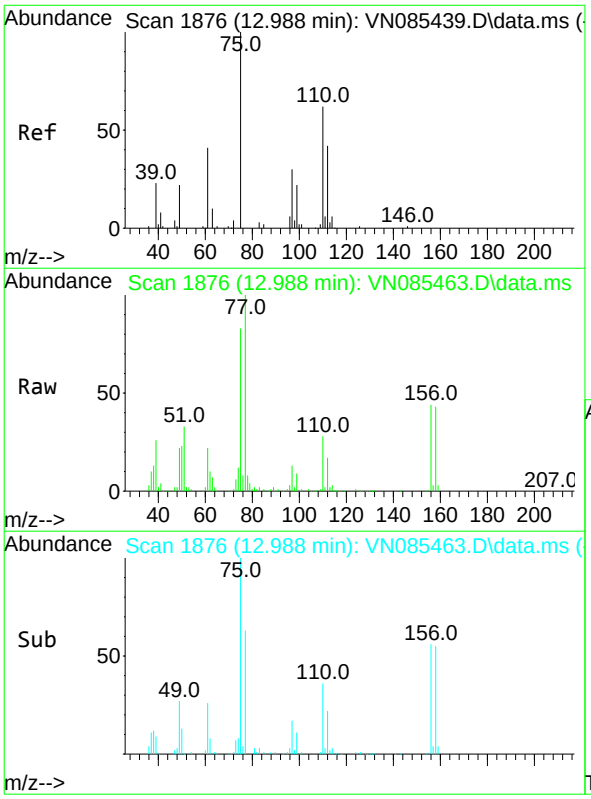
Ion	Ratio	Lower	Upper
83	100		
131	9.7	4.8	14.4
85	63.5	32.2	96.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

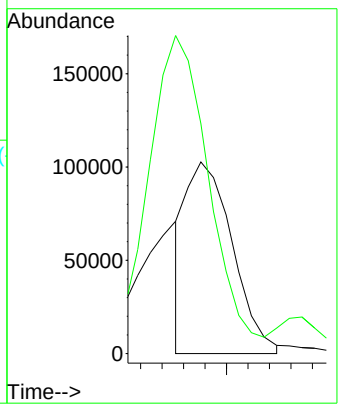
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

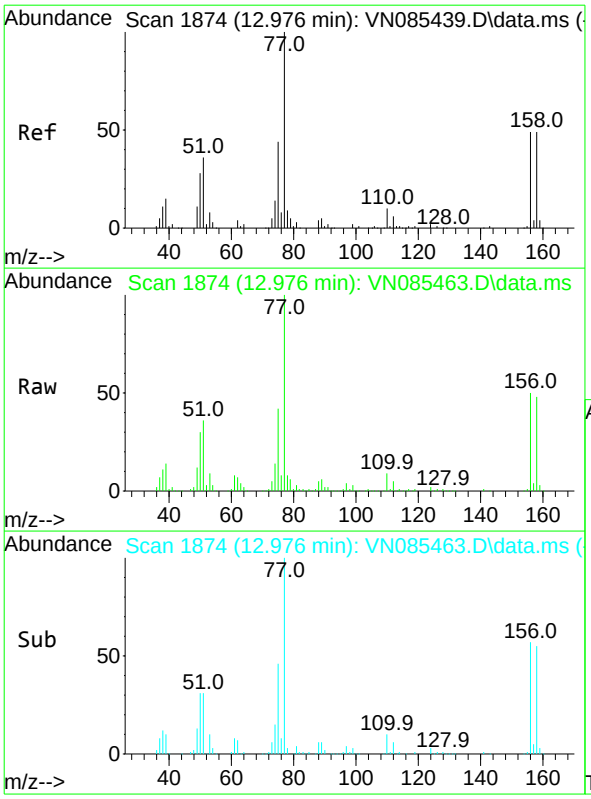


#76
1,2,3-Trichloropropane
Concen: 45.748 ug/l m
RT: 12.988 min Scan# 1876
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 75 Resp: 154649

Ion	Ratio	Lower	Upper
75	100		
77	218.6	109.7	329.2





#77
Bromobenzene
Concen: 50.075 ug/l
RT: 12.976 min Scan# 18
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

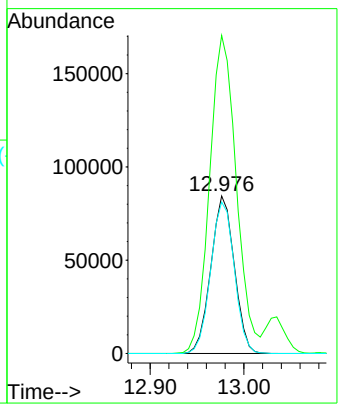
Tgt Ion:156 Resp: 146854

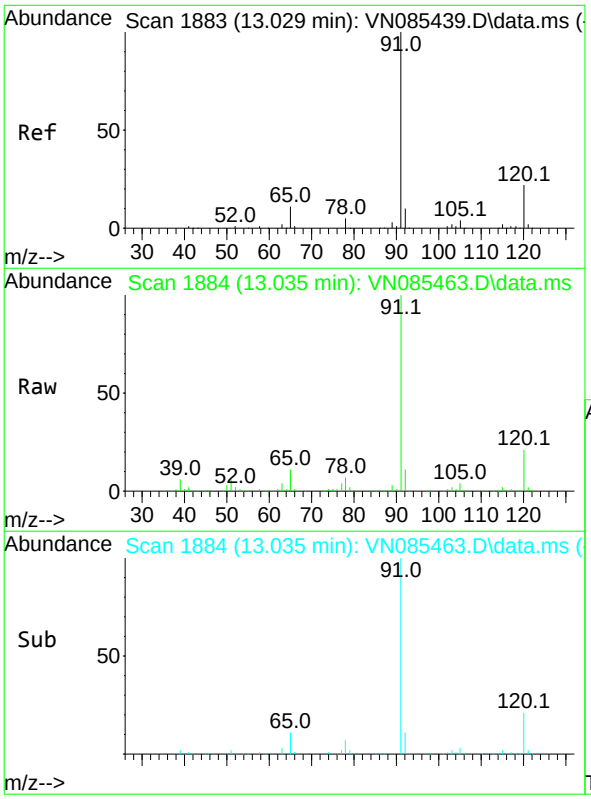
Ion	Ratio	Lower	Upper
156	100		
77	230.3	114.1	342.4
158	96.8	48.9	146.8

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

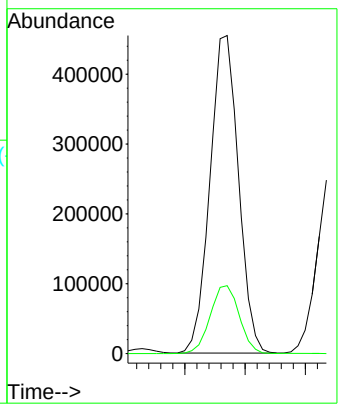


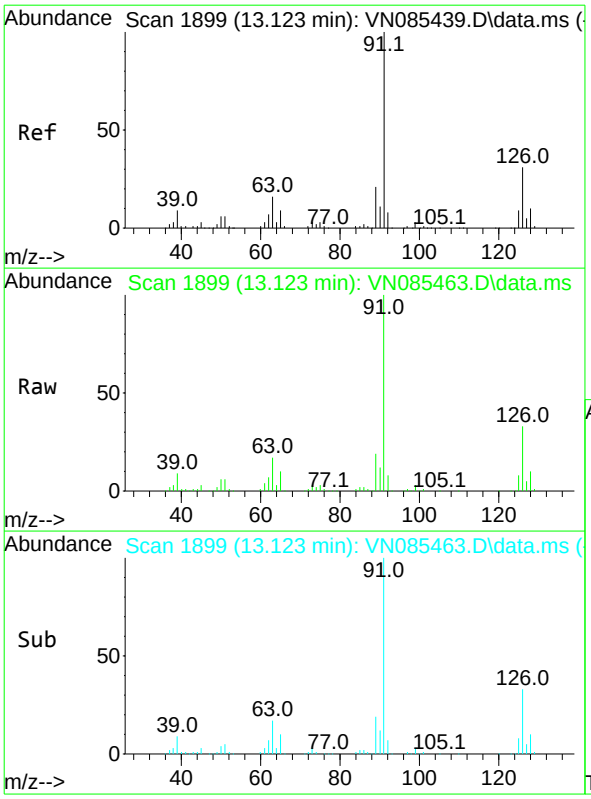


#78
n-propylbenzene
Concen: 56.324 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.006 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 91 Resp: 748465

Ion	Ratio	Lower	Upper
91	100		
120	21.8	10.9	32.6

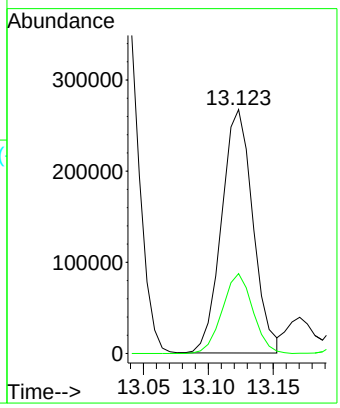




#79
2-Chlorotoluene
Concen: 52.351 ug/l
RT: 13.123 min Scan# 18
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 91 Resp: 450235

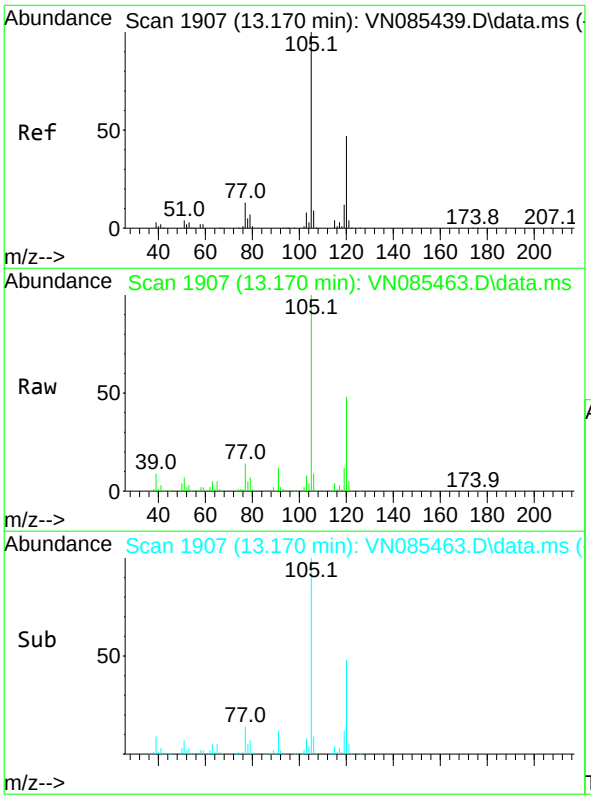
Ion	Ratio	Lower	Upper
91	100		
126	31.8	15.7	47.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

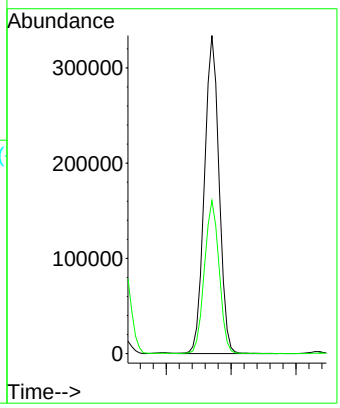
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

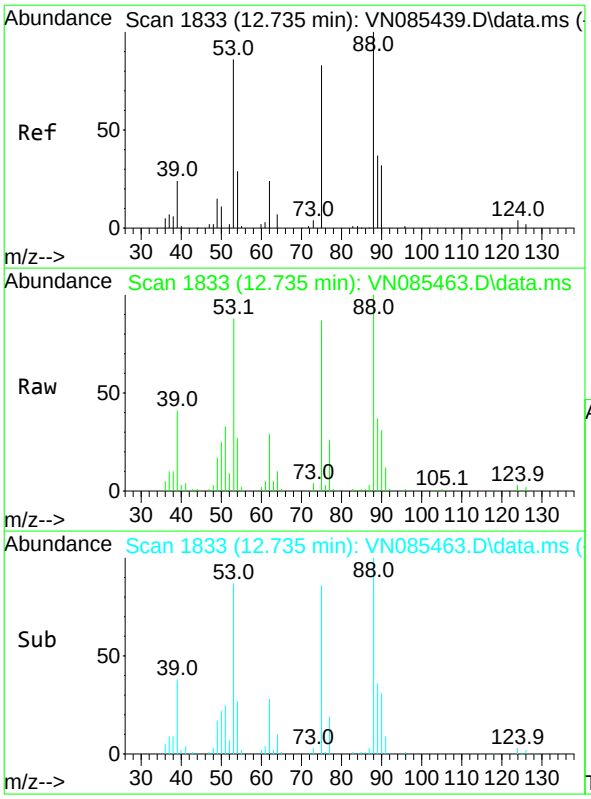


#80
1,3,5-Trimethylbenzene
Concen: 56.485 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion:105 Resp: 523728

Ion	Ratio	Lower	Upper
105	100		
120	48.2	23.9	71.7

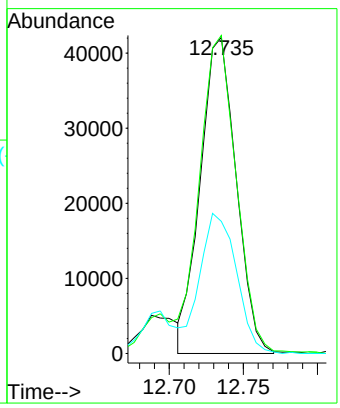




#81
trans-1,4-Dichloro-2-butene
Concen: 56.580 ug/l m
RT: 12.735 min Scan# 18
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 75 Resp: 70693

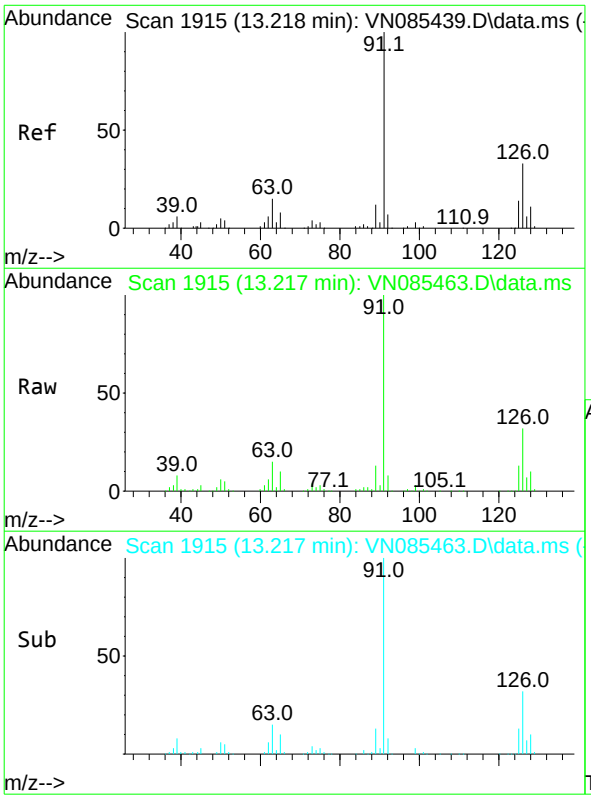
Ion	Ratio	Lower	Upper
75	100		
53	114.6	95.6	143.4
89	45.8	37.0	55.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

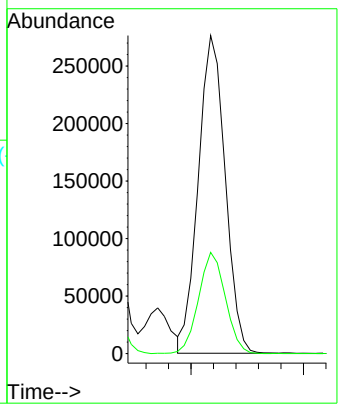
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

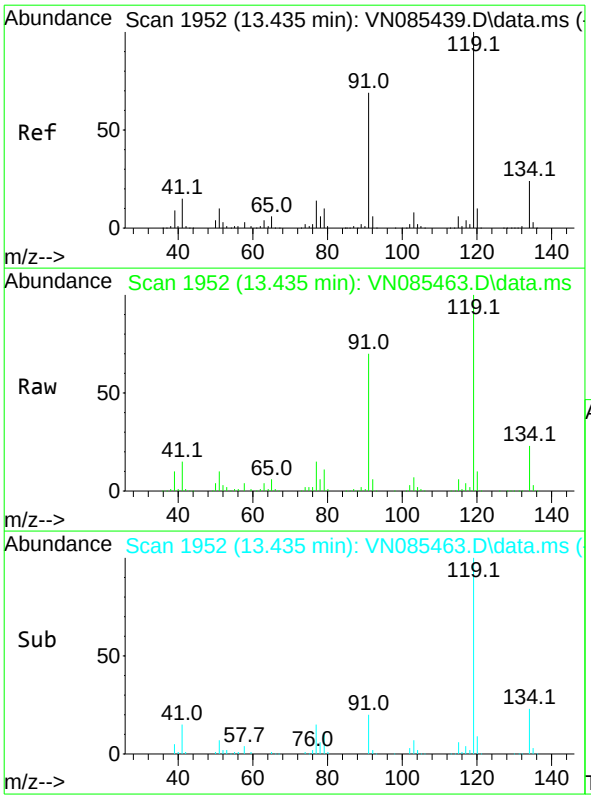


#82
4-Chlorotoluene
Concen: 53.678 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 91 Resp: 459658

Ion	Ratio	Lower	Upper
91	100		
126	31.6	15.9	47.7

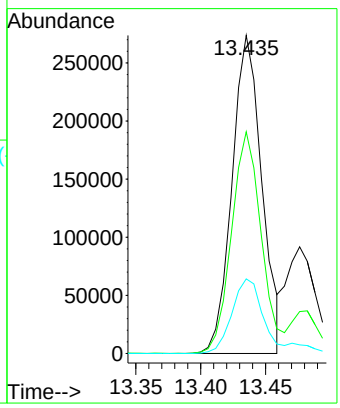




#83
tert-Butylbenzene
Concen: 56.211 ug/l
RT: 13.435 min Scan# 19
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion:119 Resp: 437674

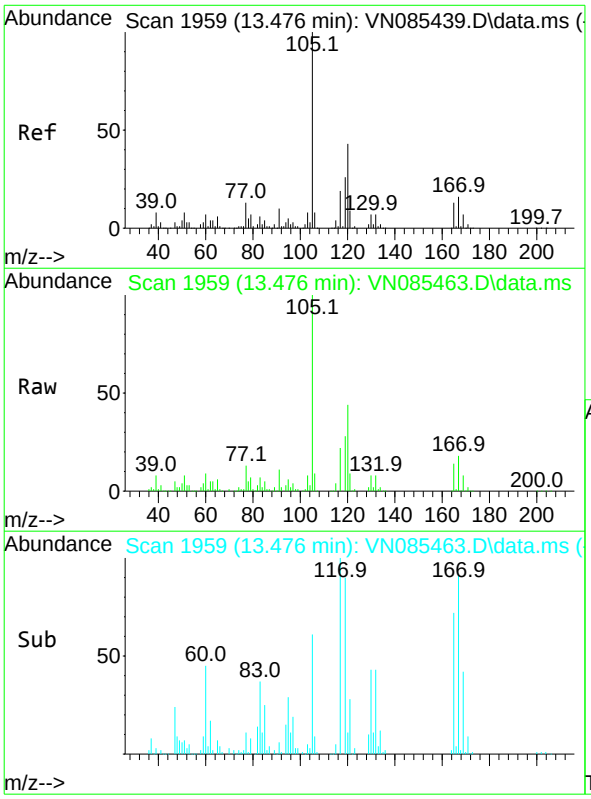
Ion	Ratio	Lower	Upper
119	100		
91	69.9	35.1	105.3
134	24.1	12.0	36.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

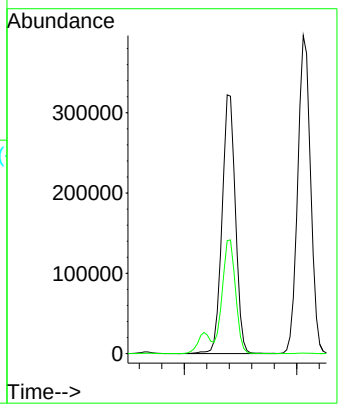
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

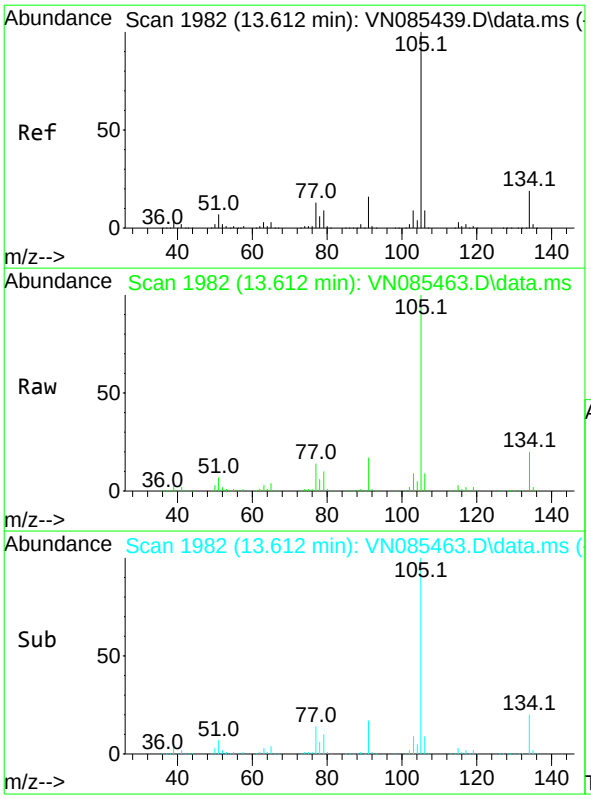


#84
1,2,4-Trimethylbenzene
Concen: 57.491 ug/l
RT: 13.476 min Scan# 1959
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion:105 Resp: 531276

Ion	Ratio	Lower	Upper
105	100		
120	43.5	21.6	65.0

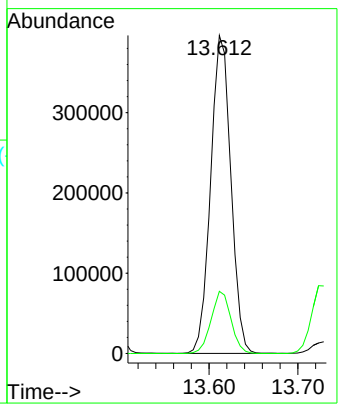




#85
sec-Butylbenzene
Concen: 58.063 ug/l
RT: 13.612 min Scan# 19
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion:105 Resp: 626587

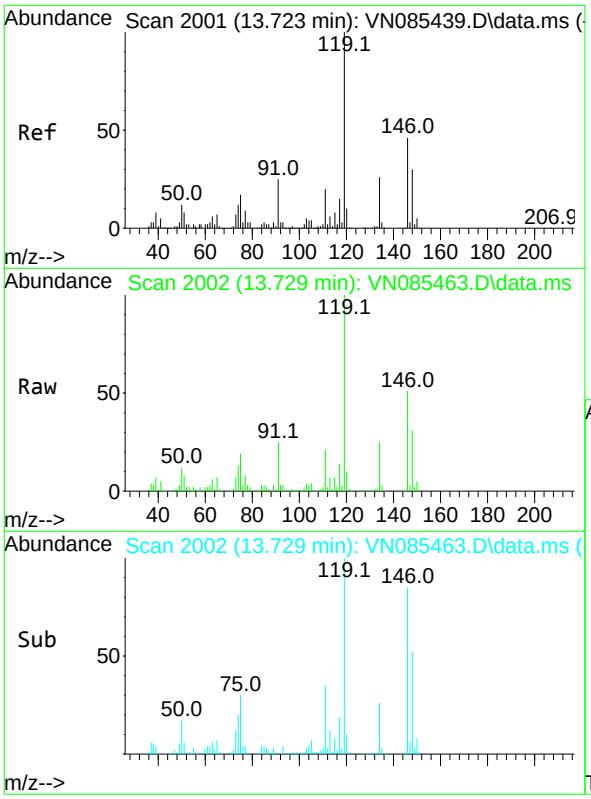
Ion	Ratio	Lower	Upper
105	100		
134	19.2	9.7	28.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

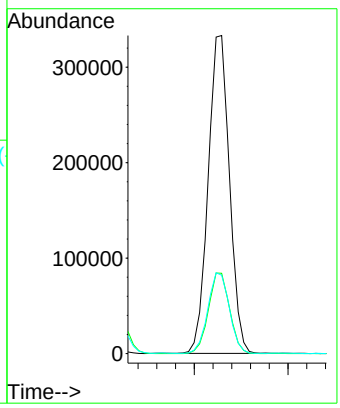
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

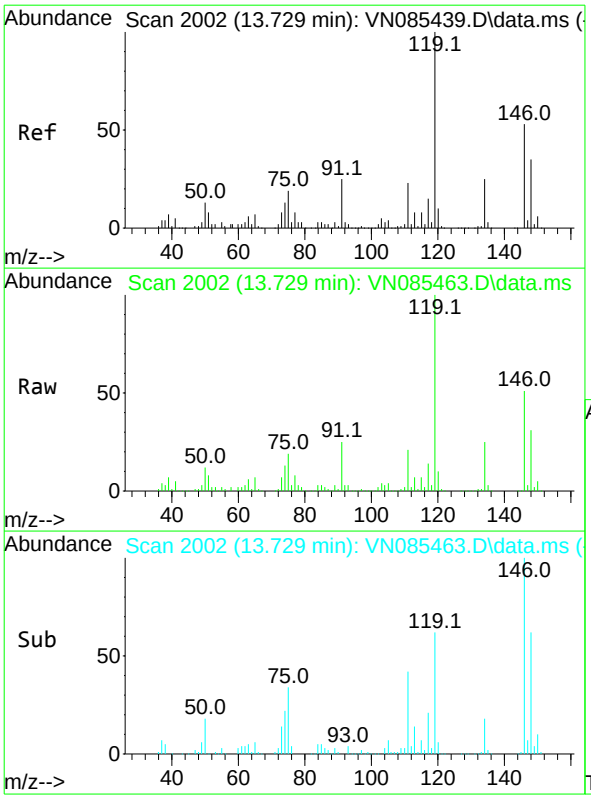


#86
p-Isopropyltoluene
Concen: 53.560 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.006 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion:119 Resp: 525049

Ion	Ratio	Lower	Upper
119	100		
134	25.2	12.7	38.0
91	25.6	12.7	38.1

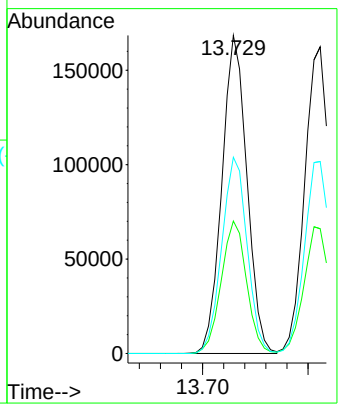




#87
1,3-Dichlorobenzene
Concen: 51.364 ug/l
RT: 13.729 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion:146 Resp: 277409

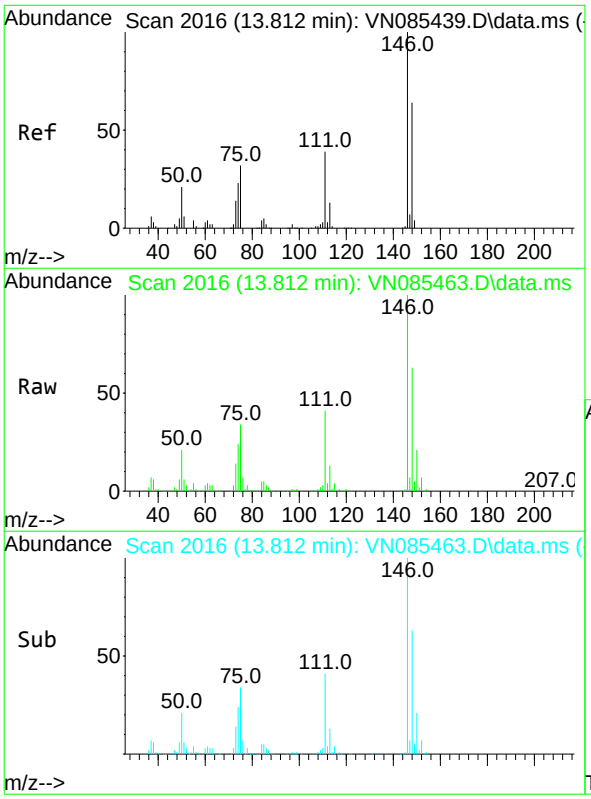
Ion	Ratio	Lower	Upper
146	100		
111	42.2	21.4	64.3
148	62.6	32.3	96.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

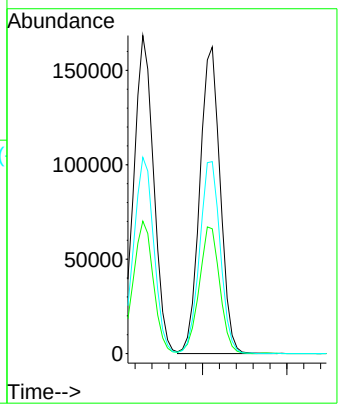
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

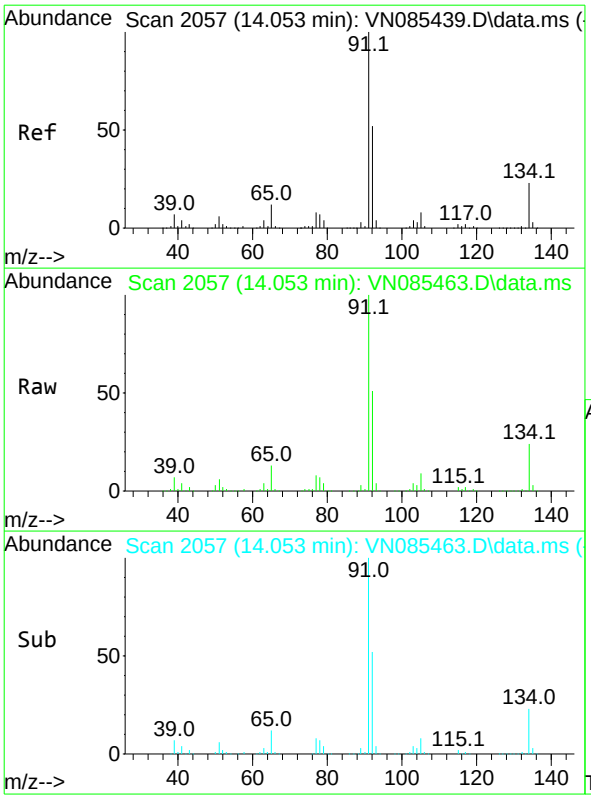


#88
1,4-Dichlorobenzene
Concen: 48.694 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion:146 Resp: 272594

Ion	Ratio	Lower	Upper
146	100		
111	41.7	21.3	63.7
148	63.5	32.4	97.0

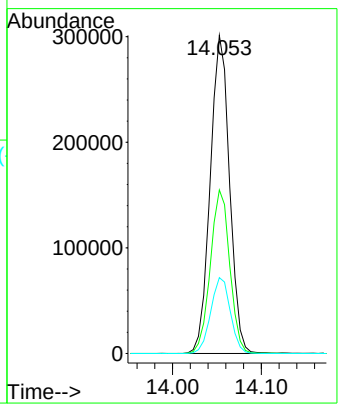




#89
n-Butylbenzene
Concen: 58.802 ug/l
RT: 14.053 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 91 Resp: 455243

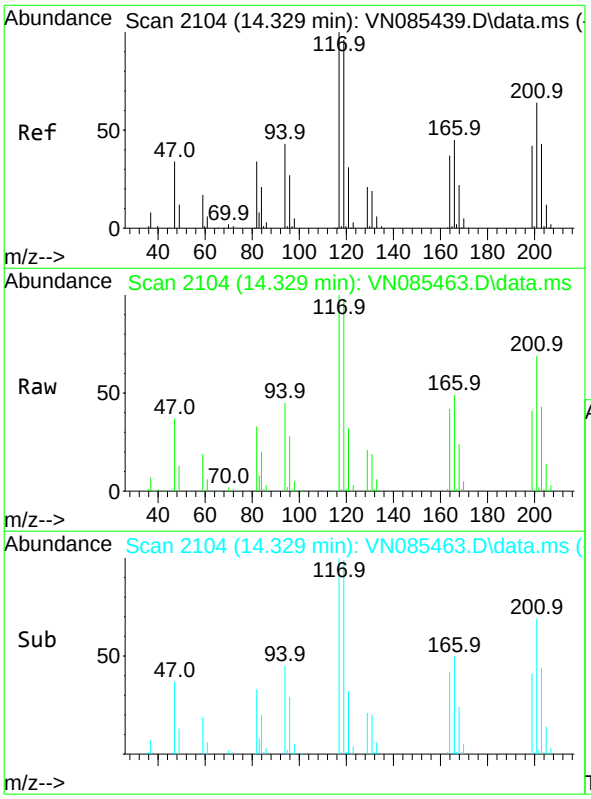
Ion	Ratio	Lower	Upper
91	100		
92	51.7	25.8	77.3
134	24.2	11.7	35.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

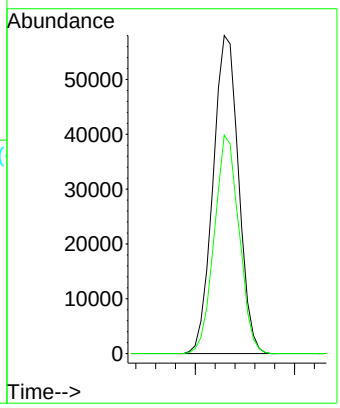
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

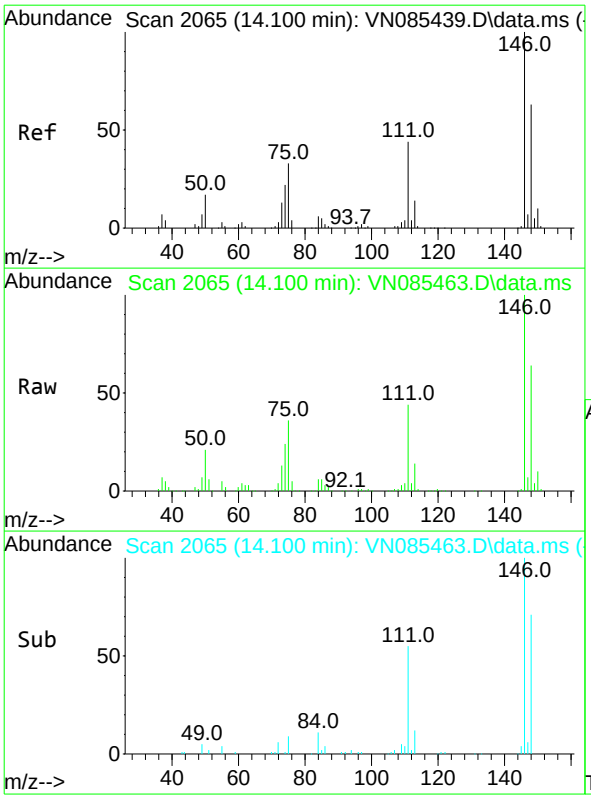


#90
Hexachloroethane
Concen: 50.491 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion:117 Resp: 103728

Ion	Ratio	Lower	Upper
117	100		
201	66.7	33.7	101.0

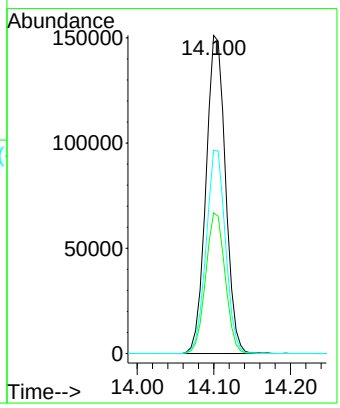




#91
1,2-Dichlorobenzene
Concen: 49.494 ug/l
RT: 14.100 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion:146 Resp: 266635

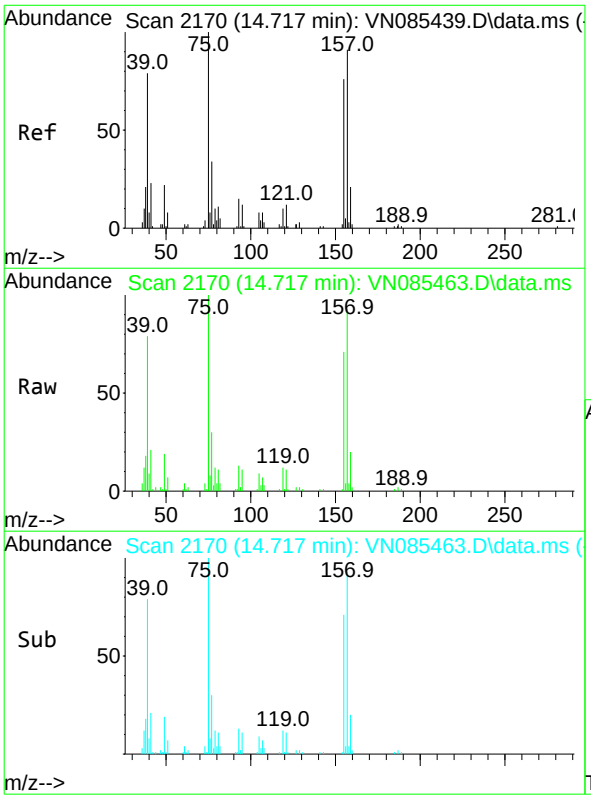
Ion	Ratio	Lower	Upper
146	100		
111	44.1	21.7	65.1
148	63.3	31.4	94.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

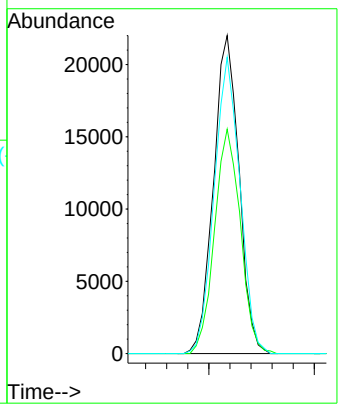
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

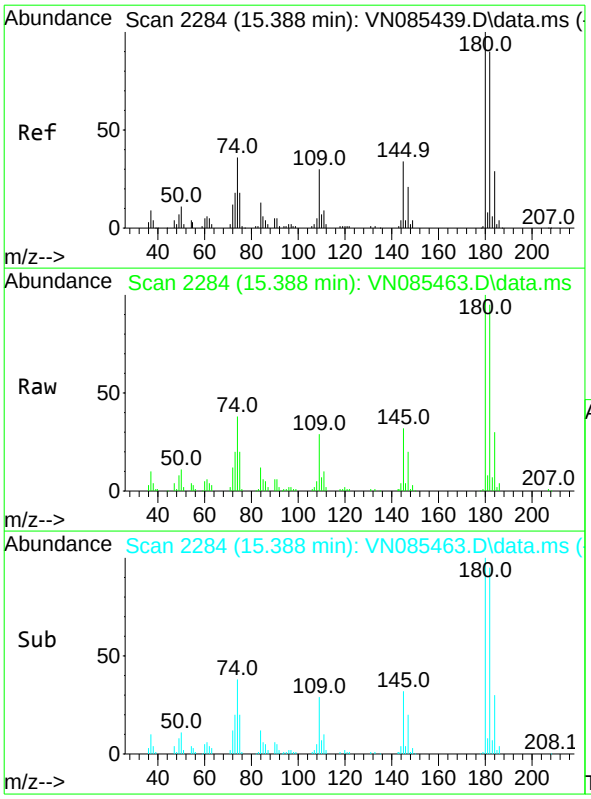


#92
1,2-Dibromo-3-Chloropropane
Concen: 51.081 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 75 Resp: 36986

Ion	Ratio	Lower	Upper
75	100		
155	71.4	36.4	109.2
157	94.1	45.4	136.1





#93
1,2,4-Trichlorobenzene
Concen: 53.324 ug/l
RT: 15.388 min Scan# 22
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

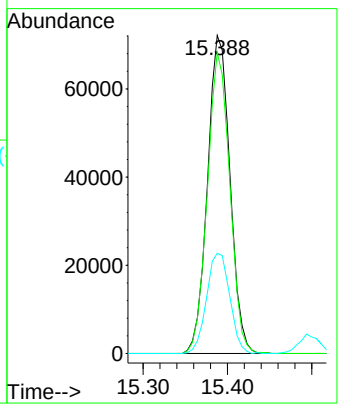
Tgt Ion:180 Resp: 133515

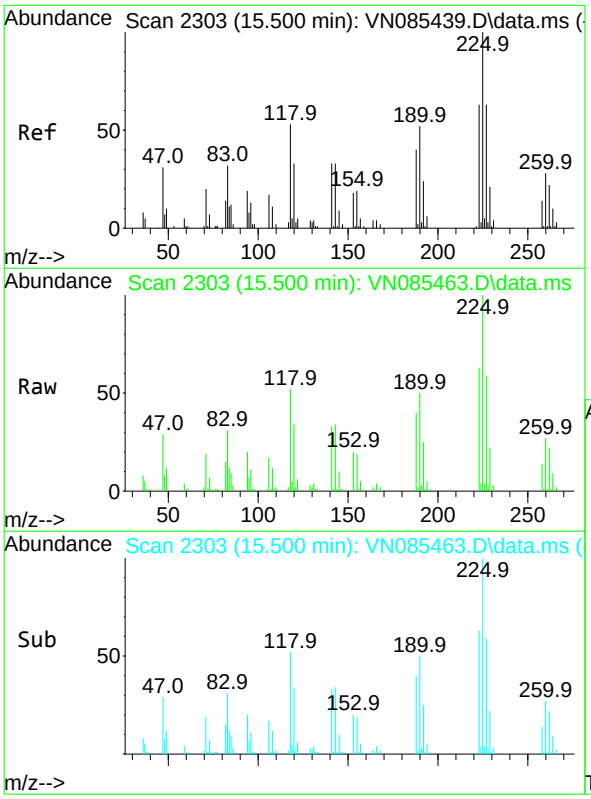
Ion	Ratio	Lower	Upper
180	100		
182	94.2	46.8	140.3
145	32.5	16.0	48.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

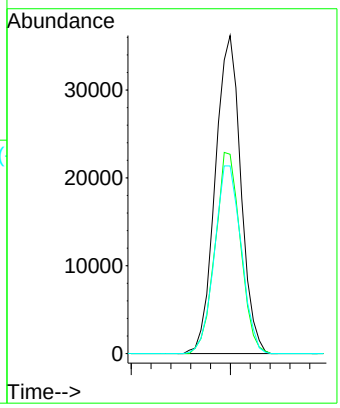


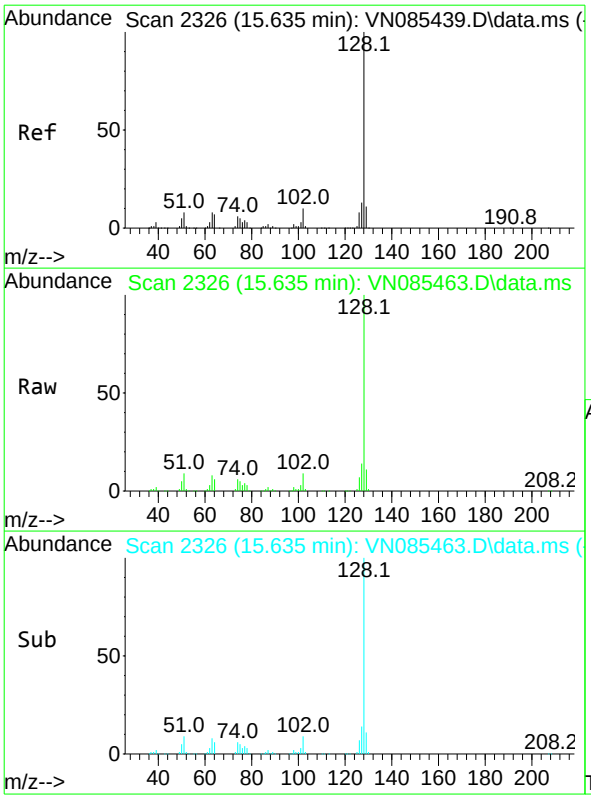


#94
Hexachlorobutadiene
Concen: 48.771 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion:225 Resp: 64832

Ion	Ratio	Lower	Upper
225	100		
223	62.7	30.7	92.1
227	61.7	30.9	92.5

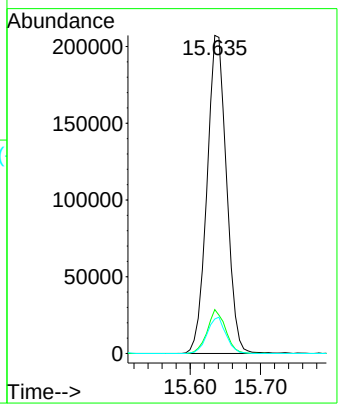




#95
Naphthalene
Concen: 53.462 ug/l
RT: 15.635 min Scan# 23
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion:128 Resp: 399446

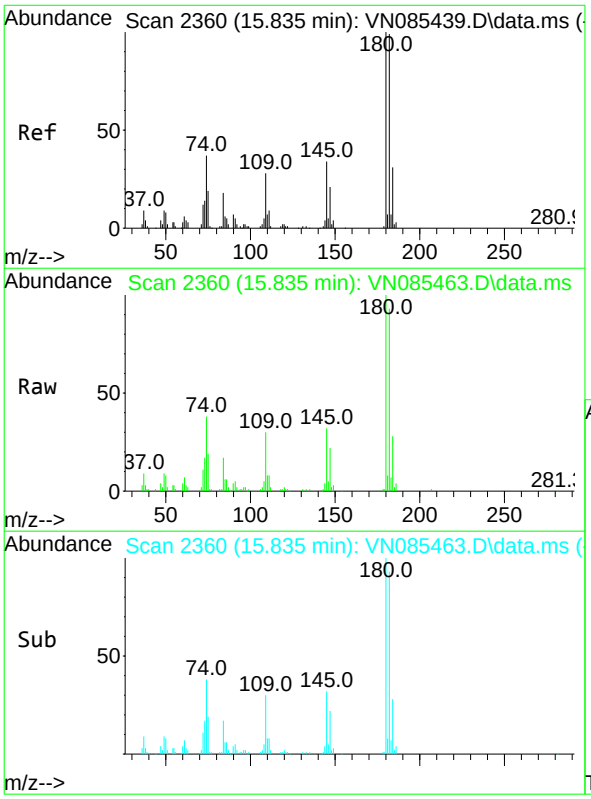
Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.6	16.0
129	11.0	8.8	13.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

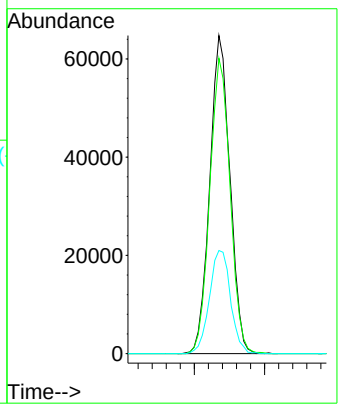
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#96
1,2,3-Trichlorobenzene
Concen: 50.856 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion:180 Resp: 128843

Ion	Ratio	Lower	Upper
180	100		
182	93.6	47.4	142.2
145	34.0	16.9	50.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085463.D
Acq On : 15 Jan 2025 15:58
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jan 16 01:00:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	110	0.00
2	T	Dichlorodifluoromethane	0.677	0.684	-1.0	119	0.00
3	P	Chloromethane	0.733	0.702	4.2	113	0.00
4	C	Vinyl Chloride	0.737	0.708	3.9#	113	0.00
5	T	Bromomethane	0.445	0.408	8.3	107	0.00
6	T	Chloroethane	0.467	0.455	2.6	118	0.00
7	T	Trichlorofluoromethane	1.069	1.073	-0.4	118	0.00
8	T	Diethyl Ether	0.369	0.360	2.4	110	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.602	0.611	-1.5	124	0.00
10	T	Methyl Iodide	0.690	0.723	-4.8	110	0.00
11	T	Tert butyl alcohol	0.092	0.098	-6.5	116	0.00
12	CM	1,1-Dichloroethene	0.537	0.553	-3.0#	114	0.00
13	T	Acrolein	0.126	0.144	-14.3	113	0.00
14	T	Allyl chloride	0.871	0.895	-2.8	116	0.00
15	T	Acrylonitrile	0.294	0.309	-5.1	114	0.00
16	T	Acetone	0.261	0.262	-0.4	114	0.00
17	T	Carbon Disulfide	1.652	1.549	6.2	115	0.00
18	T	Methyl Acetate	0.793	0.822	-3.7	114	0.00
19	T	Methyl tert-butyl Ether	1.742	1.940	-11.4	114	0.00
20	T	Methylene Chloride	0.646	0.639	1.1	111	0.00
21	T	trans-1,2-Dichloroethene	0.573	0.583	-1.7	115	0.00
22	T	Diisopropyl ether	1.933	2.137	-10.6	115	0.00
23	T	Vinyl Acetate	1.353	1.585	-17.1	116	0.00
24	P	1,1-Dichloroethane	1.178	1.209	-2.6	113	0.00
25	T	2-Butanone	0.384	0.414	-7.8	116	0.00
26	T	2,2-Dichloropropane	0.953	1.083	-13.6	127	0.00
27	T	cis-1,2-Dichloroethene	0.675	0.710	-5.2	114	0.00
28	T	Bromochloromethane	0.548	0.546	0.4	110	0.00
29	T	Tetrahydrofuran	0.243	0.277	-14.0	117	0.00
30	C	Chloroform	1.218	1.244	-2.1#	116	0.00
31	T	Cyclohexane	1.024	0.999	2.4	124	0.00
32	T	1,1,1-Trichloroethane	1.068	1.085	-1.6	117	0.00
33	S	1,2-Dichloroethane-d4	0.807	0.841	-4.2	111	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	110	0.00
35	S	Dibromofluoromethane	0.347	0.359	-3.5	110	0.00
36	T	1,1-Dichloropropene	0.487	0.492	-1.0	117	0.00
37	T	Ethyl Acetate	0.491	0.499	-1.6	113	0.00
38	T	Carbon Tetrachloride	0.557	0.568	-2.0	118	0.00
39	T	Methylcyclohexane	0.457	0.526	-15.1	125	0.00
40	TM	Benzene	1.463	1.516	-3.6	115	0.00
41	T	Methacrylonitrile	0.256	0.281	-9.8	115	0.00
42	TM	1,2-Dichloroethane	0.551	0.569	-3.3	115	0.00
43	T	Isopropyl Acetate	0.787	0.907	-15.2	123	0.00
44	TM	Trichloroethene	0.341	0.335	1.8	114	0.00
45	C	1,2-Dichloropropane	0.374	0.381	-1.9#	113	0.00
46	T	Dibromomethane	0.270	0.268	0.7	111	0.00
47	T	Bromodichloromethane	0.549	0.580	-5.6	114	0.00
48	T	Methyl methacrylate	0.354	0.410	-15.8	115	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085463.D
Acq On : 15 Jan 2025 15:58
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jan 16 01:00:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.006	0.006	0.0	101	0.00
50	S	Toluene-d8	1.232	1.331	-8.0	116	0.00
51	T	4-Methyl-2-Pentanone	0.457	0.517	-13.1	116	0.00
52	CM	Toluene	0.848	0.933	-10.0#	118	0.00
53	T	t-1,3-Dichloropropene	0.519	0.581	-11.9	116	0.00
54	T	cis-1,3-Dichloropropene	0.554	0.617	-11.4	116	0.00
55	T	1,1,2-Trichloroethane	0.335	0.347	-3.6	113	0.00
56	T	Ethyl methacrylate	0.469	0.564	-20.3	114	0.00
57	T	1,3-Dichloropropane	0.583	0.622	-6.7	114	0.00
58	T	2-Chloroethyl Vinyl ether	0.213	0.247	-16.0	113	0.00
59	T	2-Hexanone	0.321	0.376	-17.1	116	0.00
60	T	Dibromochloromethane	0.405	0.424	-4.7	113	0.00
61	T	1,2-Dibromoethane	0.334	0.341	-2.1	112	0.00
62	S	4-Bromofluorobenzene	0.422	0.473	-12.1	116	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	111	0.00
64	T	Tetrachloroethene	0.341	0.322	5.6	111	0.00
65	PM	Chlorobenzene	1.095	1.124	-2.6	116	0.00
66	T	1,1,1,2-Tetrachloroethane	0.402	0.405	-0.7	115	0.00
67	C	Ethyl Benzene	1.784	2.015	-12.9#	120	0.00
68	T	m/p-Xylenes	0.659	0.755	-14.6	119	0.00
69	T	o-Xylene	0.630	0.715	-13.5	117	0.00
70	T	Styrene	1.043	1.237	-18.6	117	0.00
71	P	Bromoform	0.288	0.318	-10.4	114	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	113	0.00
73	T	Isopropylbenzene	3.375	3.695	-9.5	122	0.00
74	T	N-amyl acetate	1.517	1.706	-12.5	119	0.00
75	P	1,1,2,2-Tetrachloroethane	1.192	1.175	1.4	116	0.00
76	T	1,2,3-Trichloropropane	1.016	0.930	8.5	118	0.00
77	T	Bromobenzene	0.882	0.883	-0.1	117	0.00
78	T	n-propylbenzene	3.995	4.500	-12.6	123	0.00
79	T	2-Chlorotoluene	2.586	2.707	-4.7	119	0.00
80	T	1,3,5-Trimethylbenzene	2.787	3.149	-13.0	122	0.00
81	T	trans-1,4-Dichloro-2-butene	0.376	0.425	-13.0	124	0.00
82	T	4-Chlorotoluene	2.574	2.764	-7.4	121	0.00
83	T	tert-Butylbenzene	2.341	2.632	-12.4	122	0.00
84	T	1,2,4-Trimethylbenzene	2.778	3.194	-15.0	120	0.00
85	T	sec-Butylbenzene	3.244	3.767	-16.1	125	0.00
86	T	p-Isopropyltoluene	2.631	3.157	-20.0	125	0.00
87	T	1,3-Dichlorobenzene	1.624	1.668	-2.7	121	0.00
88	T	1,4-Dichlorobenzene	1.683	1.639	2.6	119	0.00
89	T	n-Butylbenzene	2.327	2.737	-17.6	125	0.00
90	T	Hexachloroethane	0.618	0.624	-1.0	123	0.00
91	T	1,2-Dichlorobenzene	1.620	1.603	1.0	117	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.218	0.222	-1.8	114	0.00
93	T	1,2,4-Trichlorobenzene	0.753	0.803	-6.6	117	0.00
94	T	Hexachlorobutadiene	0.400	0.390	2.5	120	0.00
95	T	Naphthalene	2.246	2.402	-6.9	110	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085463.D
Acq On : 15 Jan 2025 15:58
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jan 16 01:00:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.762	0.775	-1.7	112	0.00

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085463.D
Acq On : 15 Jan 2025 15:58
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jan 16 01:00:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	110	0.00
2	T	Dichlorodifluoromethane	50.000	50.545	-1.1	119	0.00
3	P	Chloromethane	50.000	47.865	4.3	113	0.00
4	C	Vinyl Chloride	50.000	48.017	4.0#	113	0.00
5	T	Bromomethane	50.000	45.833	8.3	107	0.00
6	T	Chloroethane	50.000	48.718	2.6	118	0.00
7	T	Trichlorofluoromethane	50.000	50.203	-0.4	118	0.00
8	T	Diethyl Ether	50.000	48.714	2.6	110	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	50.730	-1.5	124	0.00
10	T	Methyl Iodide	50.000	52.443	-4.9	110	0.00
11	T	Tert butyl alcohol	250.000	266.406	-6.6	116	0.00
12	CM	1,1-Dichloroethene	50.000	51.524	-3.0#	114	0.00
13	T	Acrolein	250.000	284.383	-13.8	113	0.00
14	T	Allyl chloride	50.000	51.384	-2.8	116	0.00
15	T	Acrylonitrile	250.000	262.738	-5.1	114	0.00
16	T	Acetone	250.000	251.190	-0.5	114	0.00
17	T	Carbon Disulfide	50.000	46.862	6.3	115	0.00
18	T	Methyl Acetate	50.000	51.803	-3.6	114	0.00
19	T	Methyl tert-butyl Ether	50.000	55.672	-11.3	114	0.00
20	T	Methylene Chloride	50.000	49.455	1.1	111	0.00
21	T	trans-1,2-Dichloroethene	50.000	50.805	-1.6	115	0.00
22	T	Diisopropyl ether	50.000	55.286	-10.6	115	0.00
23	T	Vinyl Acetate	250.000	292.883	-17.2	116	0.00
24	P	1,1-Dichloroethane	50.000	51.287	-2.6	113	0.00
25	T	2-Butanone	250.000	269.467	-7.8	116	0.00
26	T	2,2-Dichloropropane	50.000	56.857	-13.7	127	0.00
27	T	cis-1,2-Dichloroethene	50.000	52.557	-5.1	114	0.00
28	T	Bromochloromethane	50.000	49.837	0.3	110	0.00
29	T	Tetrahydrofuran	250.000	284.562	-13.8	117	0.00
30	C	Chloroform	50.000	51.054	-2.1#	116	0.00
31	T	Cyclohexane	50.000	48.757	2.5	124	0.00
32	T	1,1,1-Trichloroethane	50.000	50.757	-1.5	117	0.00
33	S	1,2-Dichloroethane-d4	50.000	52.114	-4.2	111	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	110	0.00
35	S	Dibromofluoromethane	50.000	51.677	-3.4	110	0.00
36	T	1,1-Dichloropropene	50.000	50.562	-1.1	117	0.00
37	T	Ethyl Acetate	50.000	50.810	-1.6	113	0.00
38	T	Carbon Tetrachloride	50.000	50.991	-2.0	118	0.00
39	T	Methylcyclohexane	50.000	57.436	-14.9	125	0.00
40	TM	Benzene	50.000	51.821	-3.6	115	0.00
41	T	Methacrylonitrile	50.000	54.981	-10.0	115	0.00
42	TM	1,2-Dichloroethane	50.000	51.629	-3.3	115	0.00
43	T	Isopropyl Acetate	50.000	57.599	-15.2	123	0.00
44	TM	Trichloroethene	50.000	49.260	1.5	114	0.00
45	C	1,2-Dichloropropane	50.000	51.043	-2.1#	113	0.00
46	T	Dibromomethane	50.000	49.750	0.5	111	0.00
47	T	Bromodichloromethane	50.000	52.814	-5.6	114	0.00
48	T	Methyl methacrylate	50.000	57.796	-15.6	115	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085463.D
Acq On : 15 Jan 2025 15:58
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jan 16 01:00:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	972.836	2.7	101	0.00
50	S	Toluene-d8	50.000	54.009	-8.0	116	0.00
51	T	4-Methyl-2-Pentanone	250.000	282.679	-13.1	116	0.00
52	CM	Toluene	50.000	55.032	-10.1#	118	0.00
53	T	t-1,3-Dichloropropene	50.000	55.946	-11.9	116	0.00
54	T	cis-1,3-Dichloropropene	50.000	55.661	-11.3	116	0.00
55	T	1,1,2-Trichloroethane	50.000	51.759	-3.5	113	0.00
56	T	Ethyl methacrylate	50.000	49.885	0.2	114	0.00
57	T	1,3-Dichloropropane	50.000	53.338	-6.7	114	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	290.228	-16.1	113	0.00
59	T	2-Hexanone	250.000	292.136	-16.9	116	0.00
60	T	Dibromochloromethane	50.000	52.339	-4.7	113	0.00
61	T	1,2-Dibromoethane	50.000	51.040	-2.1	112	0.00
62	S	4-Bromofluorobenzene	50.000	56.127	-12.3	116	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	111	0.00
64	T	Tetrachloroethene	50.000	47.207	5.6	111	0.00
65	PM	Chlorobenzene	50.000	51.313	-2.6	116	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	50.351	-0.7	115	0.00
67	C	Ethyl Benzene	50.000	56.469	-12.9#	120	0.00
68	T	m/p-Xylenes	100.000	114.541	-14.5	119	0.00
69	T	o-Xylene	50.000	56.724	-13.4	117	0.00
70	T	Styrene	50.000	59.312	-18.6	117	0.00
71	P	Bromoform	50.000	55.344	-10.7	114	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	113	0.00
73	T	Isopropylbenzene	50.000	54.752	-9.5	122	0.00
74	T	N-amyl acetate	50.000	56.244	-12.5	119	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	49.296	1.4	116	0.00
76	T	1,2,3-Trichloropropane	50.000	45.748	8.5	118	0.00
77	T	Bromobenzene	50.000	50.075	-0.2	117	0.00
78	T	n-propylbenzene	50.000	56.324	-12.6	123	0.00
79	T	2-Chlorotoluene	50.000	52.351	-4.7	119	0.00
80	T	1,3,5-Trimethylbenzene	50.000	56.485	-13.0	122	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	56.580	-13.2	124	0.00
82	T	4-Chlorotoluene	50.000	53.678	-7.4	121	0.00
83	T	tert-Butylbenzene	50.000	56.211	-12.4	122	0.00
84	T	1,2,4-Trimethylbenzene	50.000	57.491	-15.0	120	0.00
85	T	sec-Butylbenzene	50.000	58.063	-16.1	125	0.00
86	T	p-Isopropyltoluene	50.000	53.560	-7.1	125	0.00
87	T	1,3-Dichlorobenzene	50.000	51.364	-2.7	121	0.00
88	T	1,4-Dichlorobenzene	50.000	48.694	2.6	119	0.00
89	T	n-Butylbenzene	50.000	58.802	-17.6	125	0.00
90	T	Hexachloroethane	50.000	50.491	-1.0	123	0.00
91	T	1,2-Dichlorobenzene	50.000	49.494	1.0	117	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	51.081	-2.2	114	0.00
93	T	1,2,4-Trichlorobenzene	50.000	53.324	-6.6	117	0.00
94	T	Hexachlorobutadiene	50.000	48.771	2.5	120	0.00
95	T	Naphthalene	50.000	53.462	-6.9	110	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085463.D
Acq On : 15 Jan 2025 15:58
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jan 16 01:00:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	50.856	-1.7	112	0.00

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

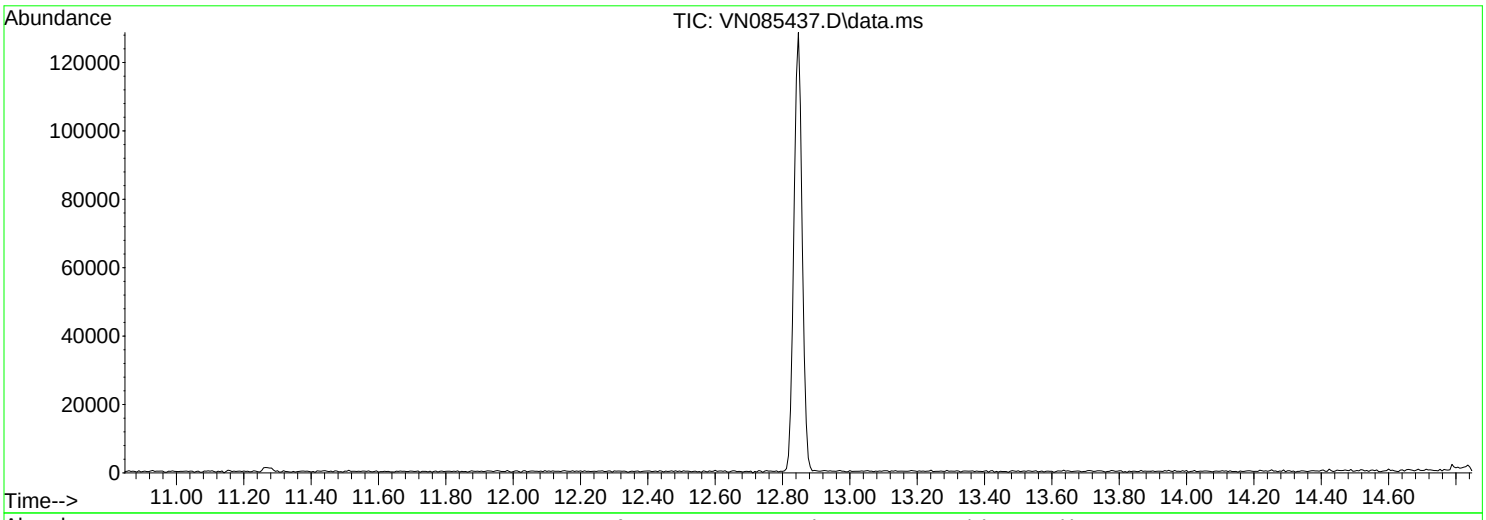
QC SAMPLE DATA

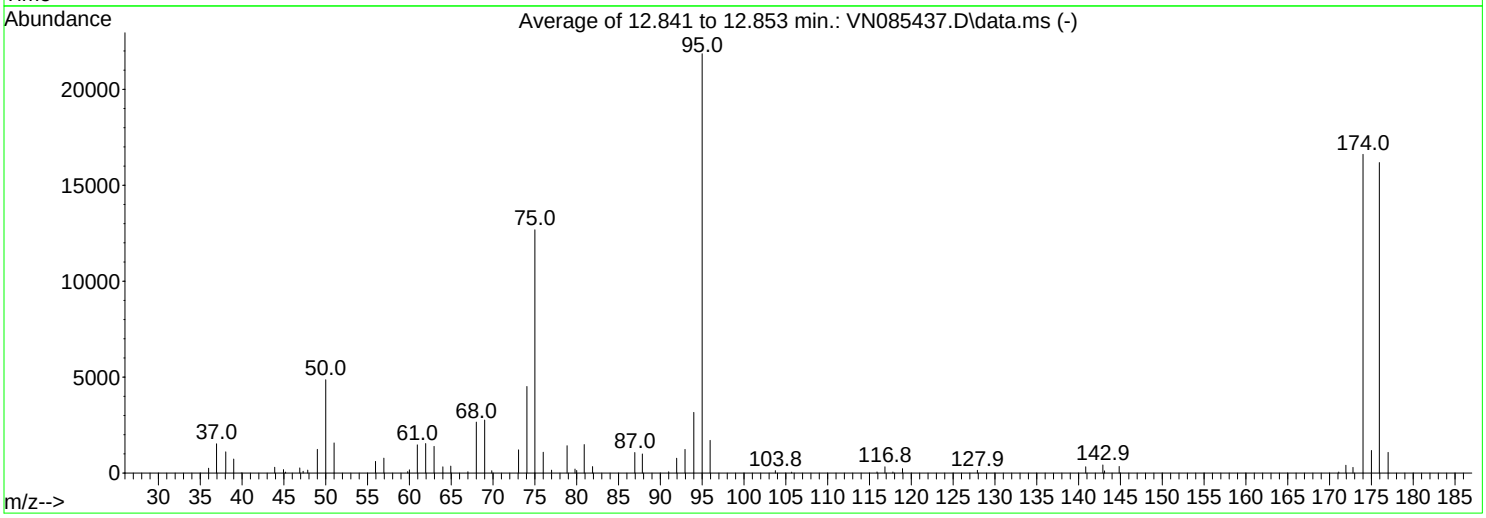
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085437.D
Acq On : 14 Jan 2025 14:22
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Title : SW846 8260
Last Update : Wed Jan 15 02:16:08 2025





AutoFind: Scans 1851, 1852, 1853; Background Corrected with Scan 1843

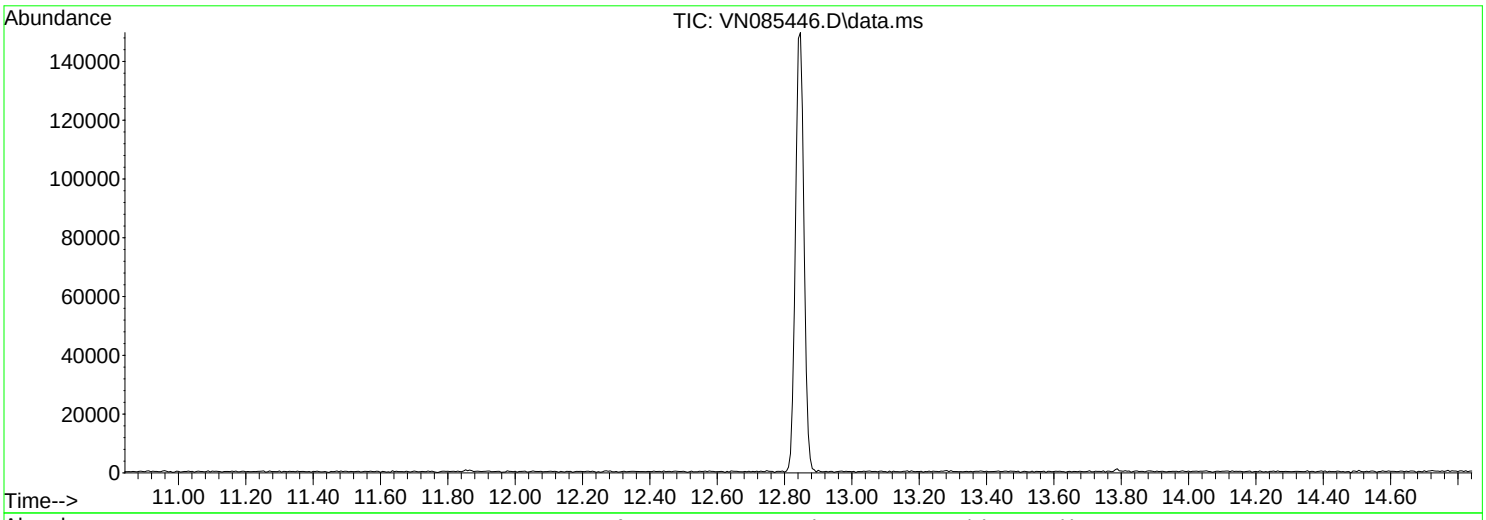
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.3	4864	PASS
75	95	30	60	58.0	12679	PASS
95	95	100	100	100.0	21856	PASS
96	95	5	9	7.8	1703	PASS
173	174	0.00	2	1.8	296	PASS
174	95	50	100	76.0	16613	PASS
175	174	5	9	7.1	1179	PASS
176	174	95	101	97.4	16185	PASS
177	176	5	9	6.7	1079	PASS

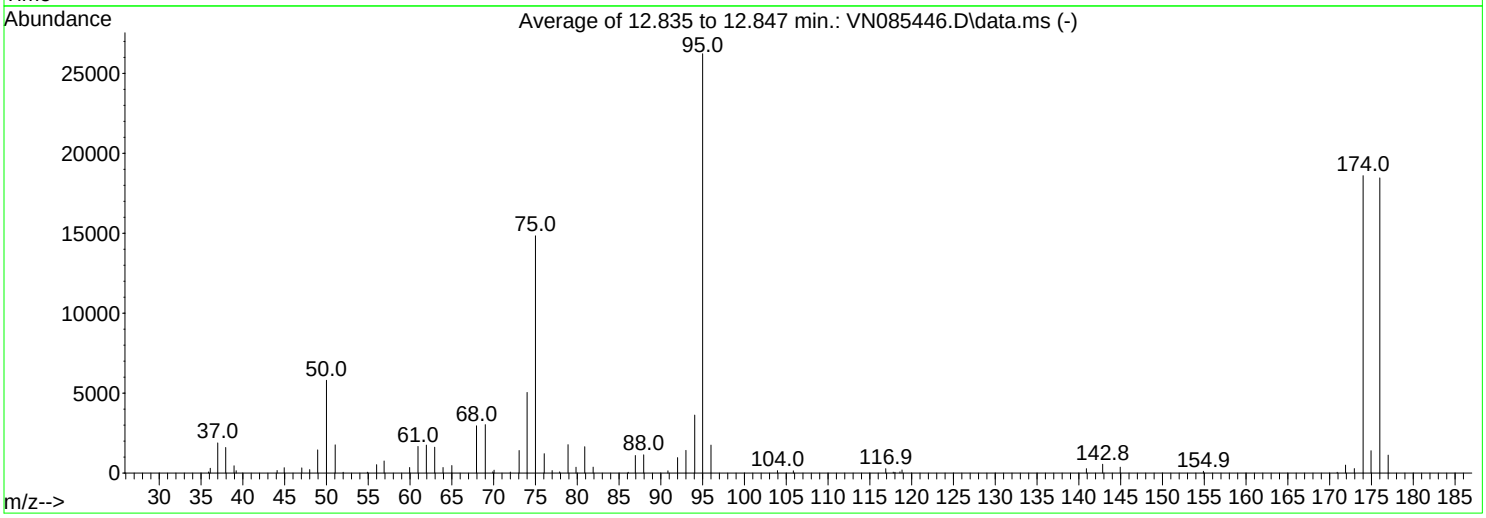
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085446.D
Acq On : 15 Jan 2025 08:25
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Title : SW846 8260
Last Update : Wed Jan 15 02:16:08 2025





AutoFind: Scans 1850, 1851, 1852; Background Corrected with Scan 1843

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.1	5803	PASS
75	95	30	60	56.6	14841	PASS
95	95	100	100	100.0	26229	PASS
96	95	5	9	6.7	1751	PASS
173	174	0.00	2	1.5	282	PASS
174	95	50	100	70.9	18601	PASS
175	174	5	9	7.5	1400	PASS
176	174	95	101	99.2	18460	PASS
177	176	5	9	6.1	1123	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:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	VN0115WBL01	SDG No.:	Q1062
Lab Sample ID:	VN0115WBL01	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:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085449.D	1		01/15/25 10:05	VN011525

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:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	VN0115WBL01	SDG No.:	Q1062
Lab Sample ID:	VN0115WBL01	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:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085449.D	1		01/15/25 10:05	VN011525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	55.1		81 - 118		110%	SPK: 50
1868-53-7	Dibromofluoromethane	51.9		80 - 119		104%	SPK: 50
2037-26-5	Toluene-d8	50.1		89 - 112		100%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.1		85 - 114		98%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	195000	8.218				
540-36-3	1,4-Difluorobenzene	361000	9.1				
3114-55-4	Chlorobenzene-d5	320000	11.859				
3855-82-1	1,4-Dichlorobenzene-d4	131000	13.788				

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_N\Data\VN011525\
Data File : VN085449.D
Acq On : 15 Jan 2025 10:05
Operator : JC\MD
Sample : VN0115WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBL01

Quant Time: Jan 16 00:53:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

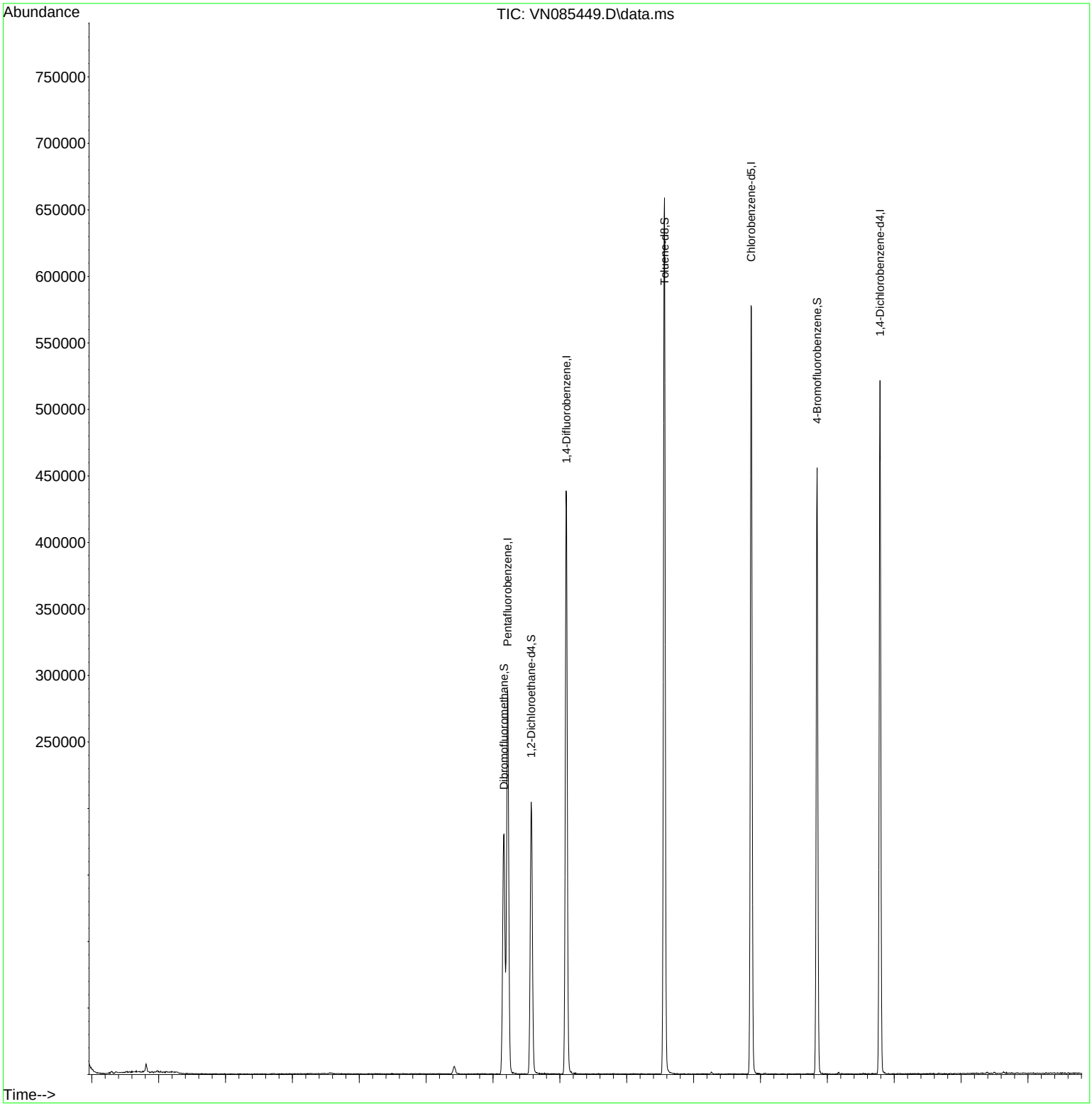
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.218	168	195111	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	360723	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.859	117	319974	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	130534	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	173401	55.057	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 110.120%			
35) Dibromofluoromethane	8.165	113	129916	51.914	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.820%			
50) Toluene-d8	10.565	98	445519	50.107	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.220%			
62) 4-Bromofluorobenzene	12.847	95	149204	49.055	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 98.120%			
Target Compounds						Qvalue

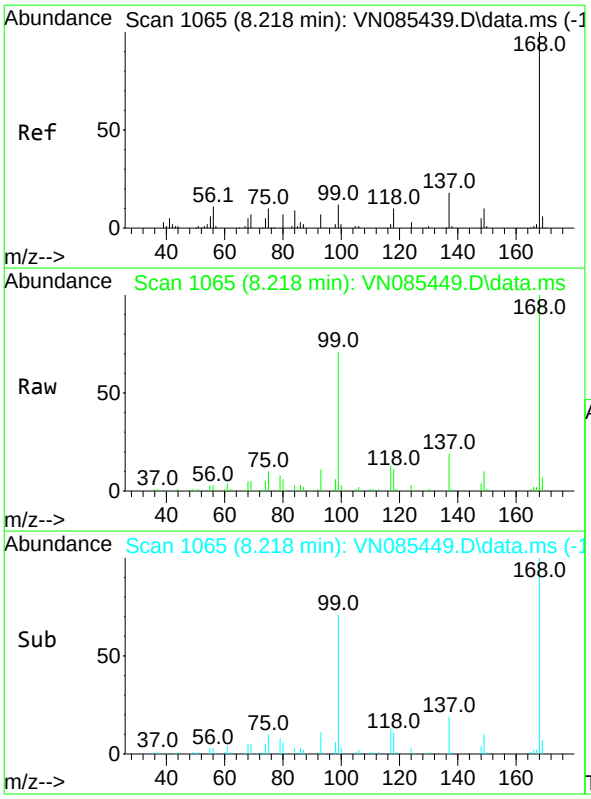
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085449.D
Acq On : 15 Jan 2025 10:05
Operator : JC\MD
Sample : VN0115WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBL01

Quant Time: Jan 16 00:53:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration



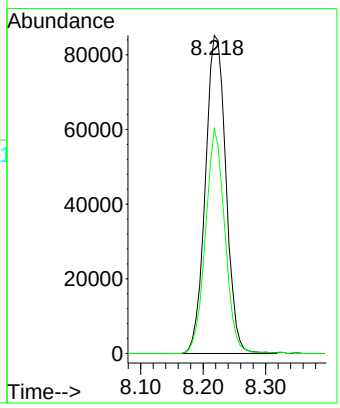


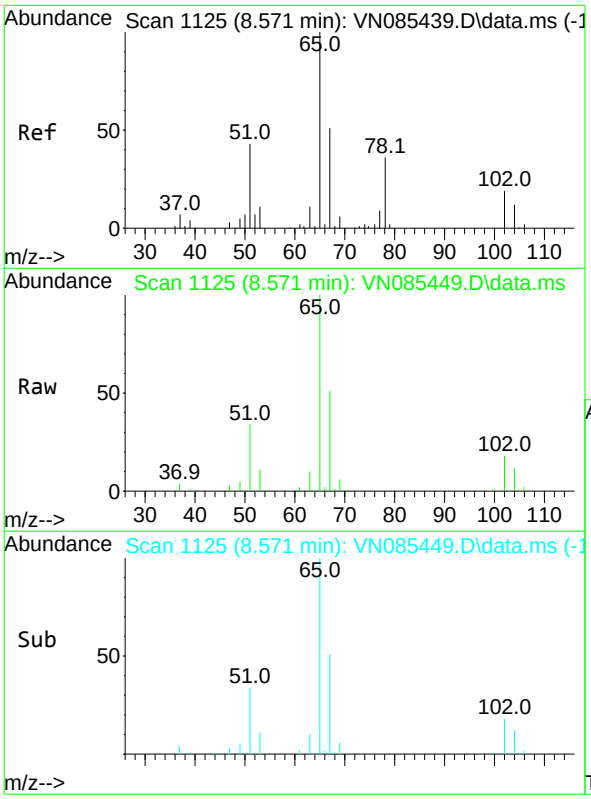
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN085449.D
Acq: 15 Jan 2025 10:05

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBL01

Tgt Ion:168 Resp: 195111

Ion	Ratio	Lower	Upper
168	100		
99	70.6	53.6	80.4

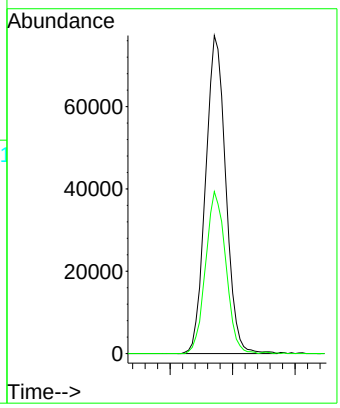


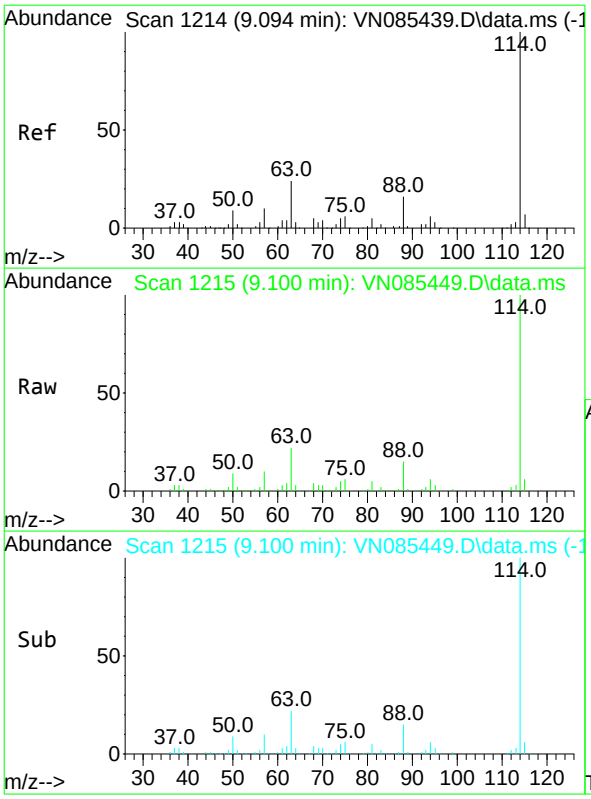


#33
1,2-Dichloroethane-d4
Concen: 55.057 ug/l
RT: 8.571 min Scan# 1125
Delta R.T. -0.000 min
Lab File: VN085449.D
Acq: 15 Jan 2025 10:05

Tgt Ion: 65 Resp: 173401

Ion	Ratio	Lower	Upper
65	100		
67	51.0	0.0	101.6



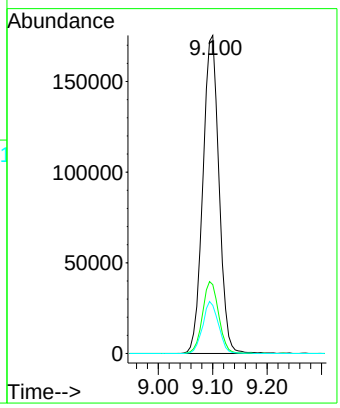


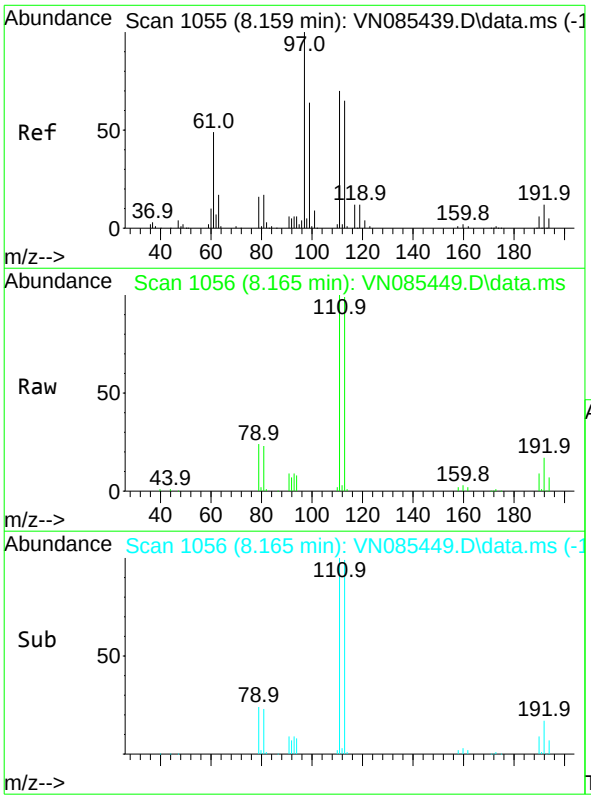
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 12
Delta R.T. 0.006 min
Lab File: VN085449.D
Acq: 15 Jan 2025 10:05

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBL01

Tgt Ion:114 Resp: 360723

Ion	Ratio	Lower	Upper
114	100		
63	21.7	0.0	47.6
88	15.1	0.0	32.6

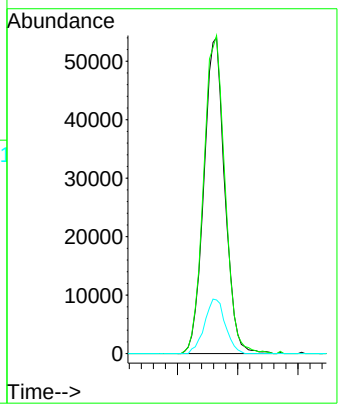


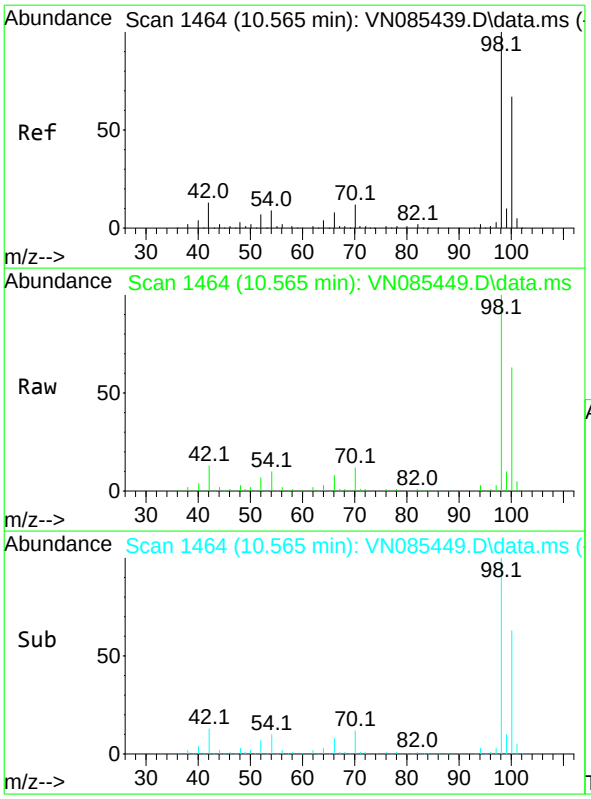


#35
Dibromofluoromethane
Concen: 51.914 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VN085449.D
Acq: 15 Jan 2025 10:05

Tgt Ion:113 Resp: 129916

Ion	Ratio	Lower	Upper
113	100		
111	103.0	82.7	124.1
192	17.2	14.3	21.5



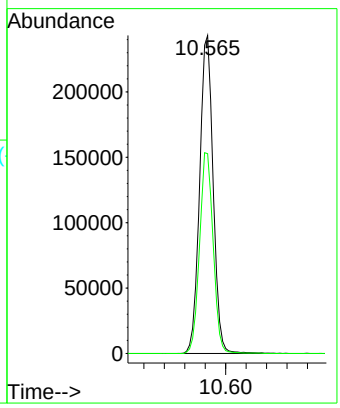


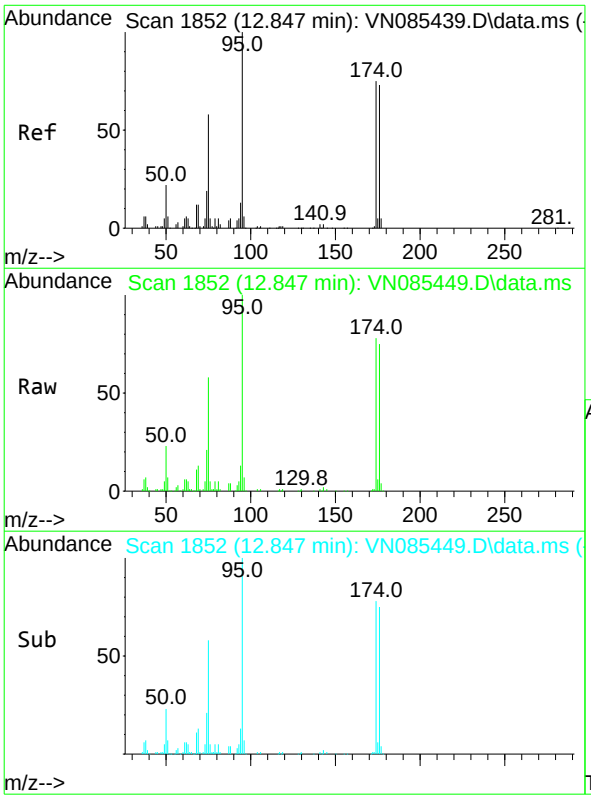
#50
Toluene-d8
Concen: 50.107 ug/l
RT: 10.565 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN085449.D
Acq: 15 Jan 2025 10:05

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBL01

Tgt Ion: 98 Resp: 445519

Ion	Ratio	Lower	Upper
98	100		
100	63.5	52.2	78.4

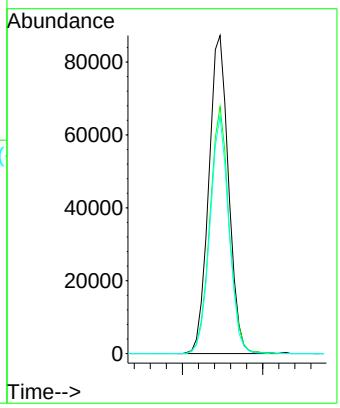


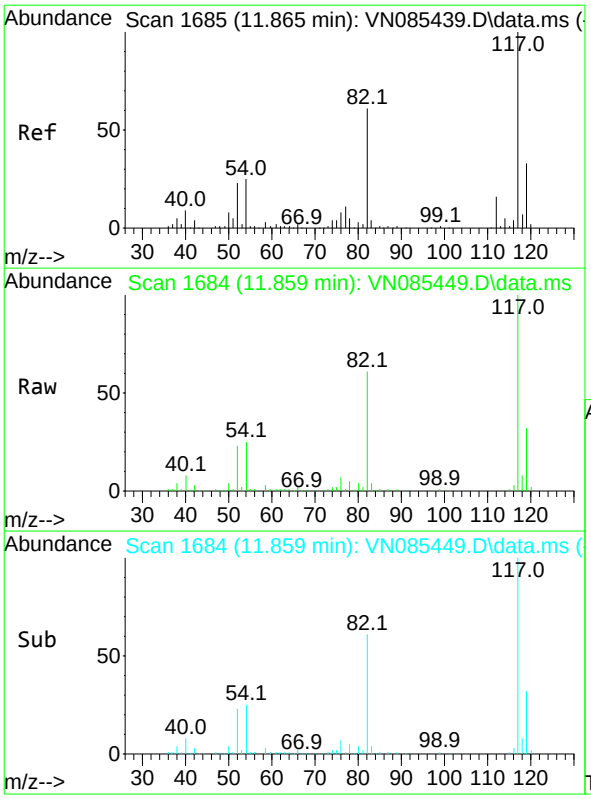


#62
4-Bromofluorobenzene
Concen: 49.055 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085449.D
Acq: 15 Jan 2025 10:05

Tgt Ion: 95 Resp: 149204

Ion	Ratio	Lower	Upper
95	100		
174	75.4	0.0	145.0
176	71.3	0.0	142.4



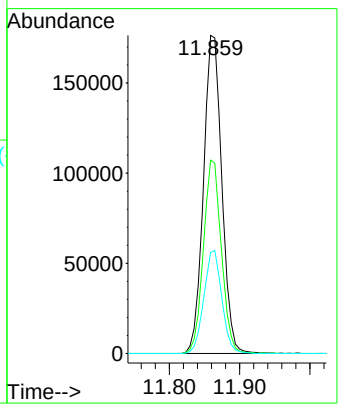


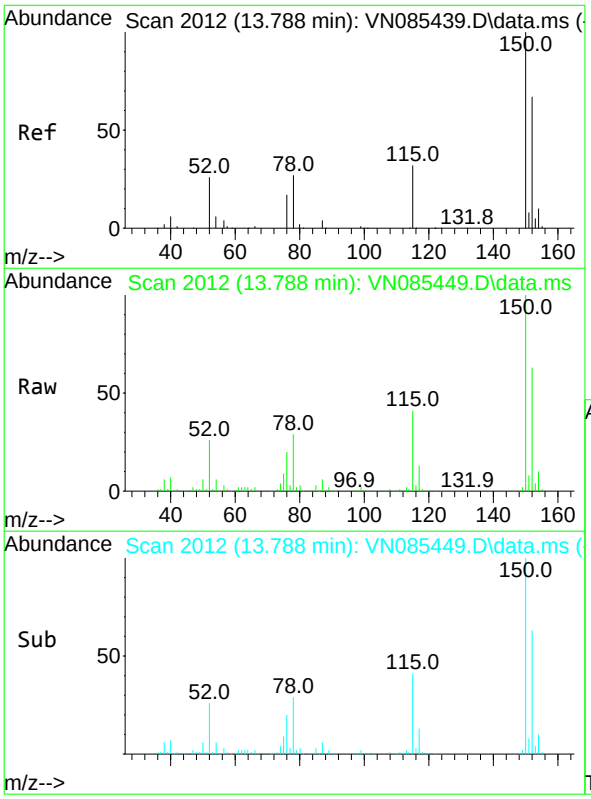
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.859 min Scan# 16
Delta R.T. -0.006 min
Lab File: VN085449.D
Acq: 15 Jan 2025 10:05

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBL01

Tgt Ion:117 Resp: 319974

Ion	Ratio	Lower	Upper
117	100		
82	60.8	48.6	72.8
119	31.8	26.6	39.8

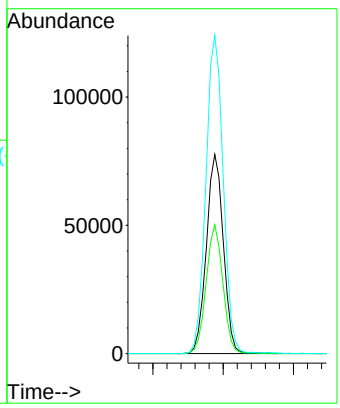




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN085449.D
Acq: 15 Jan 2025 10:05

Tgt Ion:152 Resp: 130534

Ion	Ratio	Lower	Upper
152	100		
115	63.5	31.1	93.3
150	162.1	0.0	343.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085449.D
Acq On : 15 Jan 2025 10:05
Operator : JC\MD
Sample : VN0115WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBL01

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_N\methods\82N011425W.M
Title : SW846 8260

Signal : TIC: VN085449.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	7.424	921	930	940	rBV2	5847	15794	1.31%	0.249%
2	8.165	1046	1056	1060	rBV	180742	440963	36.53%	6.945%
3	8.218	1060	1065	1078	rVB	288383	641210	53.12%	10.099%
4	8.571	1115	1125	1138	rBV	204455	463778	38.42%	7.305%
5	9.094	1205	1214	1225	rBV	438702	900841	74.63%	14.188%
6	10.565	1456	1464	1478	rBV	658553	1207121	100.00%	19.012%
7	11.859	1676	1684	1698	rBV	577768	1045316	86.60%	16.464%
8	12.847	1843	1852	1862	rBV	455849	765121	63.38%	12.051%
9	13.788	2004	2012	2023	rBV	521223	868998	71.99%	13.687%

Sum of corrected areas: 6349142

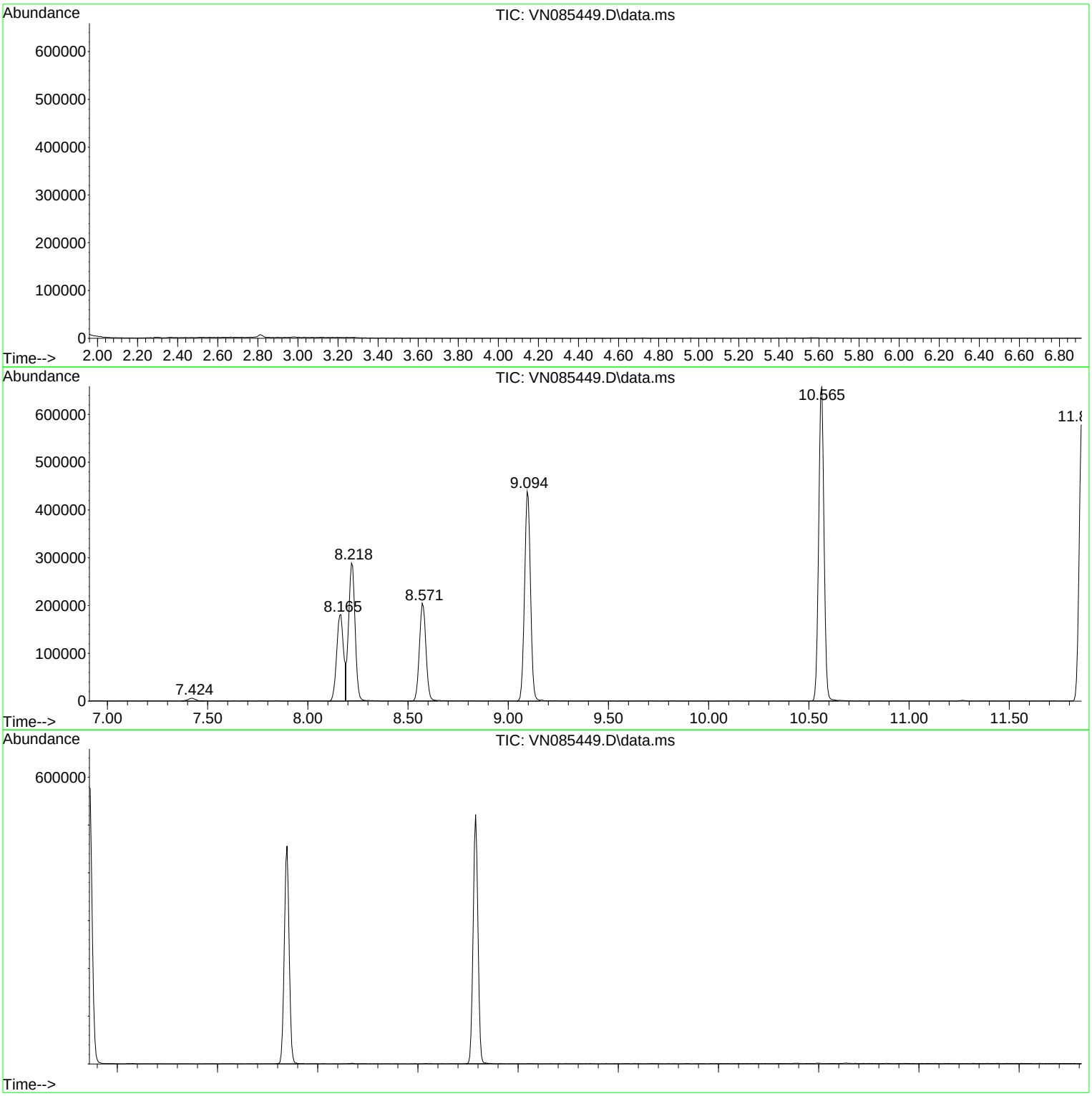
Sample Results: **VN085449.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085449.D
Acq On : 15 Jan 2025 10:05
Operator : JC\MD
Sample : VN0115WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085449.D
Acq On : 15 Jan 2025 10:05
Operator : JC\MD
Sample : VN0115WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.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_N\Data\VN011525\
Data File : VN085449.D
Acq On : 15 Jan 2025 10:05
Operator : JC\MD
Sample : VN0115WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.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:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	VN0115WBS01	SDG No.:	Q1062
Lab Sample ID:	VN0115WBS01	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:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085450.D	1		01/15/25 10:29	VN011525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	18.5		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	18.5		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	17.8		0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	18.7		0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	19.0		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.6		0.26	0.75	1.00	ug/L
67-64-1	Acetone	87.7		1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	17.4		0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	18.7		0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	18.2		0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	18.6		0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	18.6		0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	91.2		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	18.7		0.25	0.75	1.00	ug/L
67-66-3	Chloroform	18.4		0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	18.6		0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	19.8		0.19	0.50	1.00	ug/L
71-43-2	Benzene	19.2		0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	18.8		0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	19.2		0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	18.9		0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	19.8		0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	95.3		0.75	2.50	5.00	ug/L
108-88-3	Toluene	20.1		0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	19.0		0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	20.0		0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	18.9		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	96.5		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:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	VN0115WBS01	SDG No.:	Q1062
Lab Sample ID:	VN0115WBS01	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:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085450.D	1		01/15/25 10:29	VN011525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	19.1		0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	20.1		0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	19.3		0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	20.0		0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	41.3		0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	20.2		0.14	0.50	1.00	ug/L
100-42-5	Styrene	20.4		0.16	0.50	1.00	ug/L
75-25-2	Bromoform	19.8		0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	20.7		0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	18.5		0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	19.6		0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	18.7		0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	18.9		0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	47.6		81 - 118		95%	SPK: 50
1868-53-7	Dibromofluoromethane	48.5		80 - 119		97%	SPK: 50
2037-26-5	Toluene-d8	50.4		89 - 112		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.5		85 - 114		99%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	209000	8.224				
540-36-3	1,4-Difluorobenzene	350000	9.094				
3114-55-4	Chlorobenzene-d5	302000	11.865				
3855-82-1	1,4-Dichlorobenzene-d4	141000	13.788				

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_N\Data\VN011525\
Data File : VN085450.D
Acq On : 15 Jan 2025 10:29
Operator : JC\MD
Sample : VN0115WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 16 00:53:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	208834	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	350038	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	301633	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	141189	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.576	65	160496	47.611	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 95.220%			
35) Dibromofluoromethane	8.165	113	117791	48.506	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 97.020%			
50) Toluene-d8	10.559	98	434650	50.376	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.760%			
62) 4-Bromofluorobenzene	12.847	95	146069	49.491	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 98.980%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	53406	18.888	ug/l	97
3) Chloromethane	2.359	50	56766	18.542	ug/l	100
4) Vinyl Chloride	2.518	62	55927	18.175	ug/l	98
5) Bromomethane	2.959	94	34404	18.509	ug/l	93
6) Chloroethane	3.130	64	34817	17.847	ug/l	99
7) Trichlorofluoromethane	3.500	101	83471	18.695	ug/l	98
8) Diethyl Ether	3.959	74	26372	17.097	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.377	101	47665	18.954	ug/l	98
10) Methyl Iodide	4.589	142	52836	18.346	ug/l	94
11) Tert butyl alcohol	5.500	59	34842	90.264	ug/l	98
12) 1,1-Dichloroethene	4.347	96	41789	18.645	ug/l	97
13) Acrolein	4.177	56	57066	108.299	ug/l	99
14) Allyl chloride	5.024	41	64682	17.785	ug/l	98
15) Acrylonitrile	5.718	53	111192	90.690	ug/l	98
16) Acetone	4.424	43	95481	87.661	ug/l	97
17) Carbon Disulfide	4.712	76	120042	17.395	ug/l	99
18) Methyl Acetate	5.024	43	59306	17.906	ug/l	100
19) Methyl tert-butyl Ether	5.794	73	136088	18.700	ug/l	100
20) Methylene Chloride	5.277	84	48956	18.156	ug/l	98
21) trans-1,2-Dichloroethene	5.788	96	44485	18.572	ug/l	95
22) Diisopropyl ether	6.665	45	156113	19.339	ug/l	99
23) Vinyl Acetate	6.600	43	540854	95.740	ug/l	100
24) 1,1-Dichloroethane	6.565	63	91537	18.597	ug/l	99
25) 2-Butanone	7.477	43	146109	91.155	ug/l	99
26) 2,2-Dichloropropane	7.488	77	81881	20.576	ug/l	99
27) cis-1,2-Dichloroethene	7.482	96	52626	18.654	ug/l	99
28) Bromochloromethane	7.806	49	39408	17.209	ug/l	99
29) Tetrahydrofuran	7.835	42	97170	95.619	ug/l	98
30) Chloroform	7.959	83	93604	18.400	ug/l	100
31) Cyclohexane	8.259	56	79144	18.500	ug/l	95
32) 1,1,1-Trichloroethane	8.159	97	83081	18.618	ug/l	97
36) 1,1-Dichloropropene	8.365	75	63125	18.521	ug/l	99
37) Ethyl Acetate	7.553	43	62310	18.113	ug/l	97
38) Carbon Tetrachloride	8.359	117	74287	19.039	ug/l	97
39) Methylcyclohexane	9.594	83	63410	19.799	ug/l	99
40) Benzene	8.600	78	196843	19.222	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085450.D
Acq On : 15 Jan 2025 10:29
Operator : JC\MD
Sample : VN0115WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 16 00:53:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	7.771	41	34152	19.082 ug/l	96
42) 1,2-Dichloroethane	8.665	62	72644	18.835 ug/l	100
43) Isopropyl Acetate	8.682	43	99545	18.059 ug/l	100
44) Trichloroethene	9.347	130	45825	19.224 ug/l	98
45) 1,2-Dichloropropane	9.618	63	49517	18.931 ug/l	96
46) Dibromomethane	9.706	93	34976	18.531 ug/l	99
47) Bromodichloromethane	9.882	83	75979	19.759 ug/l	96
48) Methyl methacrylate	9.676	41	47488	19.143 ug/l	98
49) 1,4-Dioxane	9.694	88	14354	343.615 ug/l	95
51) 4-Methyl-2-Pentanone	10.441	43	304924	95.328 ug/l	100
52) Toluene	10.629	92	118985	20.053 ug/l	98
53) t-1,3-Dichloropropene	10.829	75	69201	19.044 ug/l	96
54) cis-1,3-Dichloropropene	10.306	75	77467	19.958 ug/l	97
55) 1,1,2-Trichloroethane	11.012	97	44394	18.906 ug/l	99
56) Ethyl methacrylate	10.870	69	63560	17.379 ug/l	99
57) 1,3-Dichloropropane	11.159	76	78133	19.136 ug/l	99
58) 2-Chloroethyl Vinyl ether	10.153	63	148732	99.810 ug/l	99
59) 2-Hexanone	11.194	43	217128	96.472 ug/l	98
60) Dibromochloromethane	11.353	129	54139	19.097 ug/l	99
61) 1,2-Dibromoethane	11.465	107	44253	18.932 ug/l	98
64) Tetrachloroethene	11.100	164	41267	20.068 ug/l	96
65) Chlorobenzene	11.888	112	127557	19.304 ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.959	131	45645	18.821 ug/l	100
67) Ethyl Benzene	11.959	91	215448	20.019 ug/l	95
68) m/p-Xylenes	12.065	106	164329	41.314 ug/l	100
69) o-Xylene	12.394	106	76723	20.184 ug/l	98
70) Styrene	12.406	104	128074	20.358 ug/l	100
71) Bromoform	12.570	173	34422	19.837 ug/l #	99
73) Isopropylbenzene	12.694	105	196948	20.668 ug/l	100
74) N-amyl acetate	12.488	43	80290	18.746 ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.935	83	62306	18.510 ug/l	98
76) 1,2,3-Trichloropropane	12.988	75	57678m	20.099 ug/l	
77) Bromobenzene	12.976	156	48006	19.283 ug/l	98
78) n-propylbenzene	13.029	91	234178	20.759 ug/l	99
79) 2-Chlorotoluene	13.123	91	148584	20.351 ug/l	99
80) 1,3,5-Trimethylbenzene	13.170	105	167516	21.282 ug/l	99
81) trans-1,4-Dichloro-2-b...	12.729	75	20052m	18.905 ug/l	
82) 4-Chlorotoluene	13.217	91	148888	20.481 ug/l	100
83) tert-Butylbenzene	13.435	119	137144	20.748 ug/l	99
84) 1,2,4-Trimethylbenzene	13.476	105	168611	21.493 ug/l	97
85) sec-Butylbenzene	13.611	105	193667	21.140 ug/l	99
86) p-Isopropyltoluene	13.729	119	158593	20.730 ug/l	98
87) 1,3-Dichlorobenzene	13.729	146	89998	19.629 ug/l	98
88) 1,4-Dichlorobenzene	13.806	146	88968	18.721 ug/l	99
89) n-Butylbenzene	14.053	91	132410	20.147 ug/l	99
90) Hexachloroethane	14.329	117	32875	18.850 ug/l	100
91) 1,2-Dichlorobenzene	14.100	146	86586	18.933 ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	10904	17.740 ug/l	96
93) 1,2,4-Trichlorobenzene	15.388	180	38461	18.095 ug/l	98
94) Hexachlorobutadiene	15.500	225	21171	18.761 ug/l	98
95) Naphthalene	15.635	128	104770	16.518 ug/l	100
96) 1,2,3-Trichlorobenzene	15.835	180	38077	17.704 ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085450.D
Acq On : 15 Jan 2025 10:29
Operator : JC\MD
Sample : VN0115WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 16 00:53:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

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

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

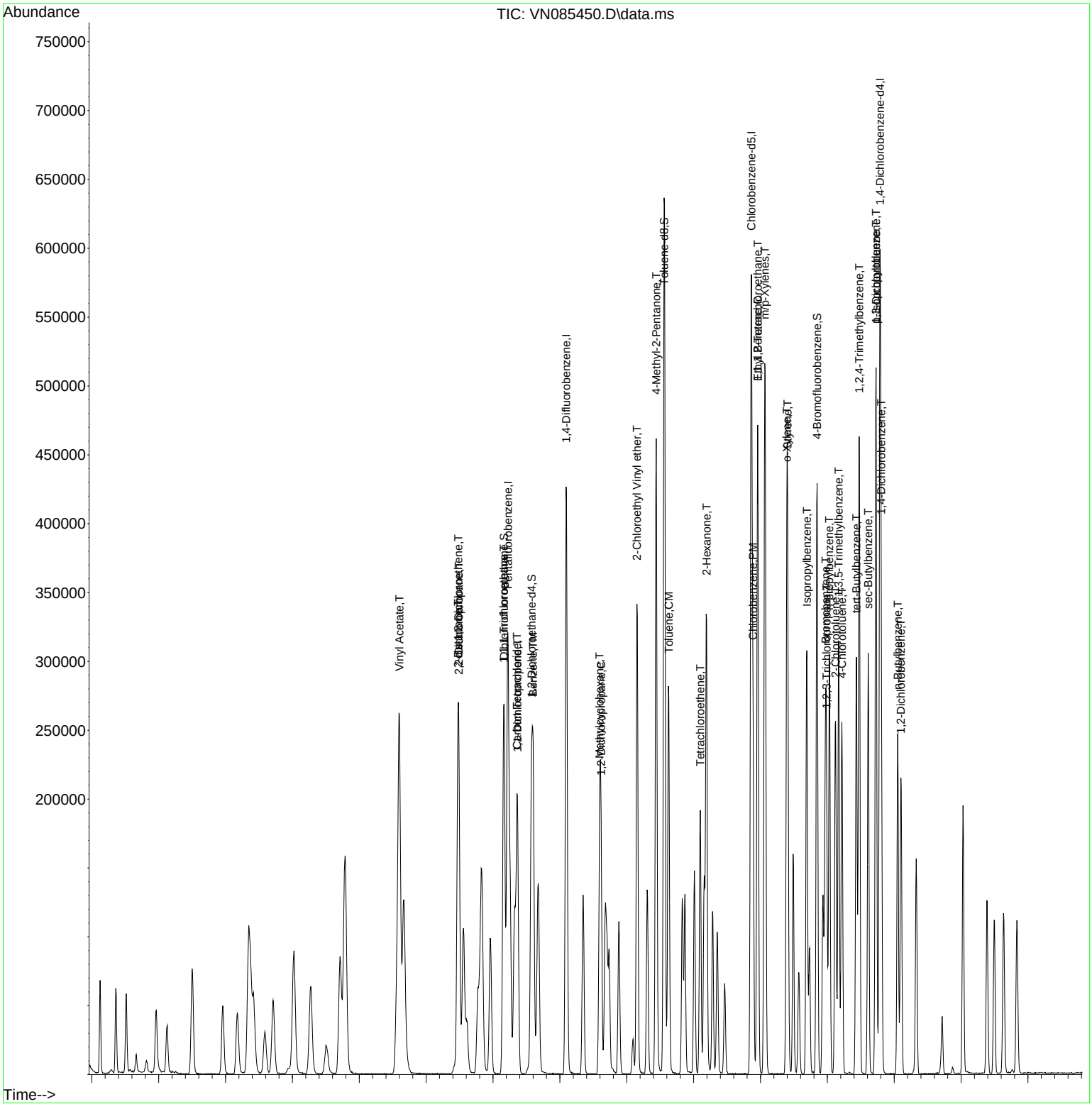
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085450.D
Acq On : 15 Jan 2025 10:29
Operator : JC\MD
Sample : VN0115WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

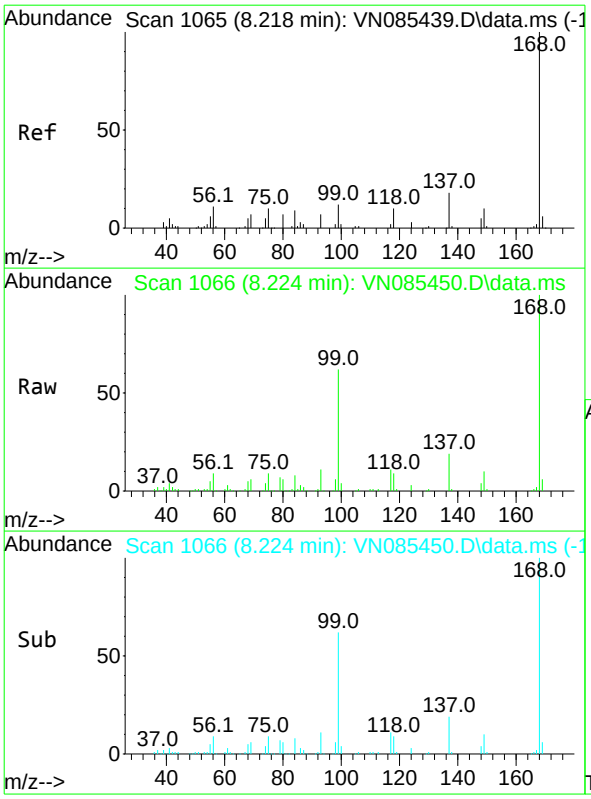
Quant Time: Jan 16 00:53:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

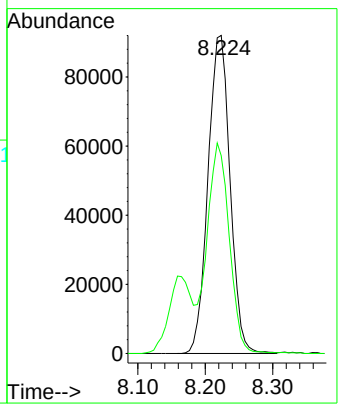




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion:168 Resp: 208834

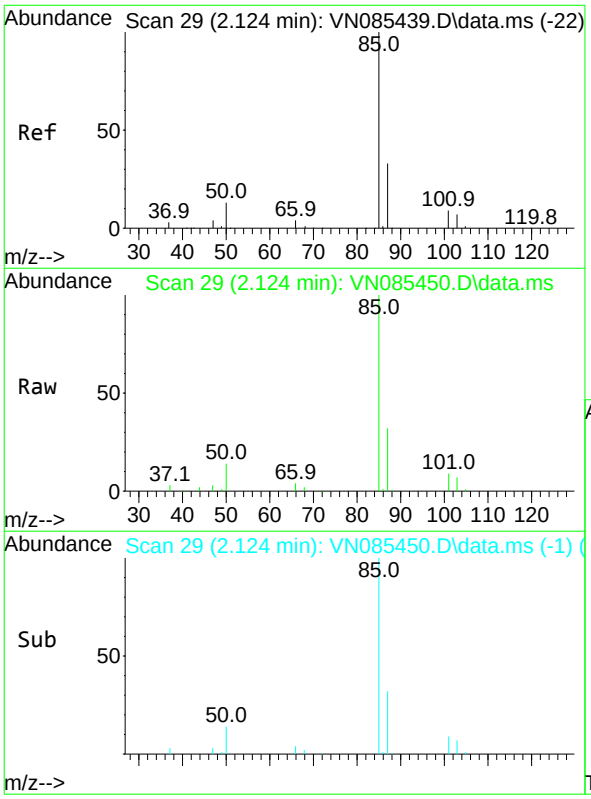
Ion	Ratio	Lower	Upper
168	100		
99	62.0	53.6	80.4



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Manual Integrations
APPROVED

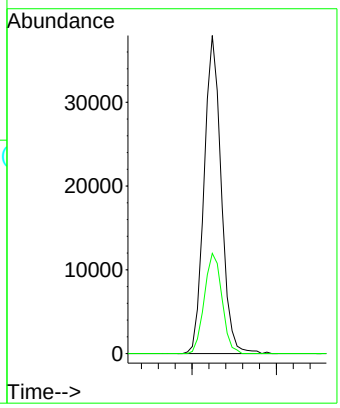
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

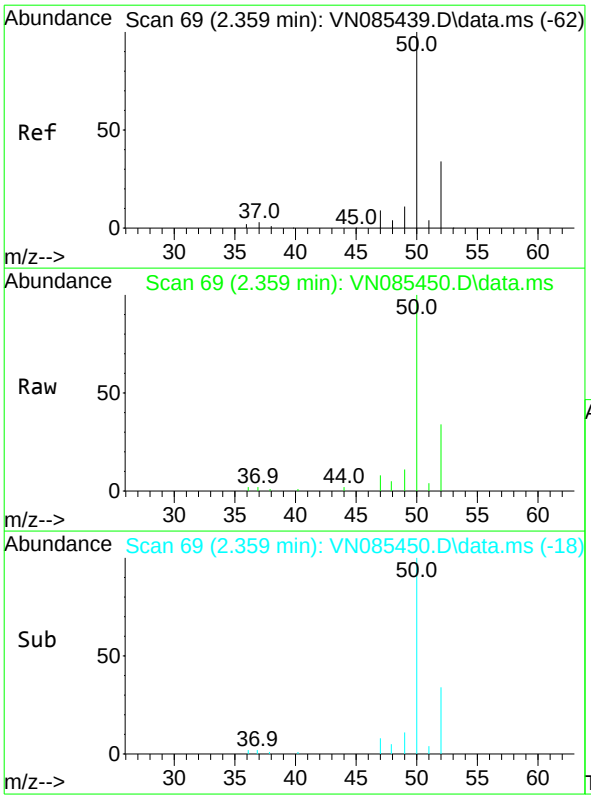


#2
Dichlorodifluoromethane
Concen: 18.888 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 85 Resp: 53406

Ion	Ratio	Lower	Upper
85	100		
87	31.5	16.7	50.1

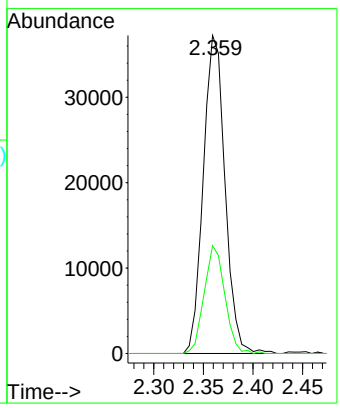




#3
Chloromethane
Concen: 18.542 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 50 Resp: 56766

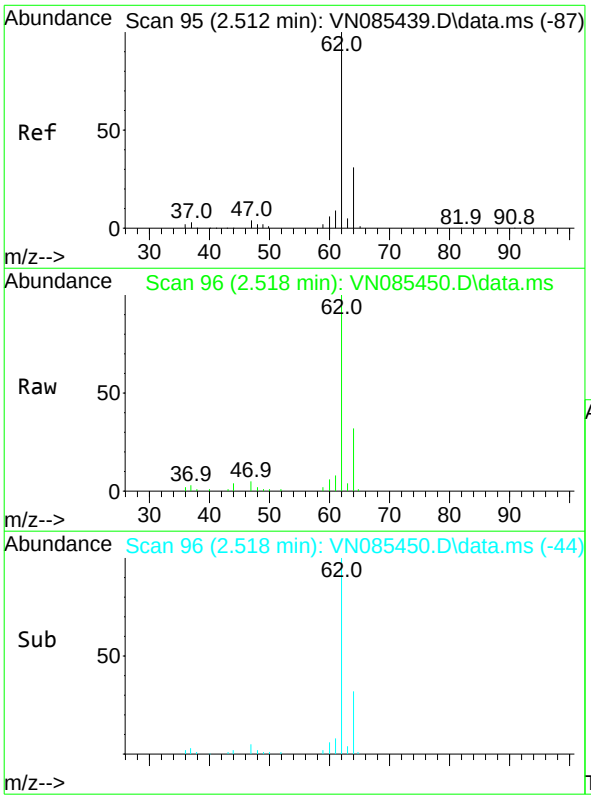
Ion	Ratio	Lower	Upper
50	100		
52	33.9	27.0	40.6



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Manual Integrations APPROVED

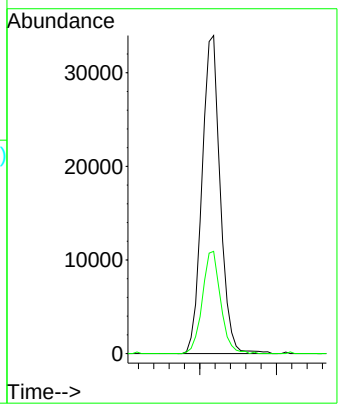
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

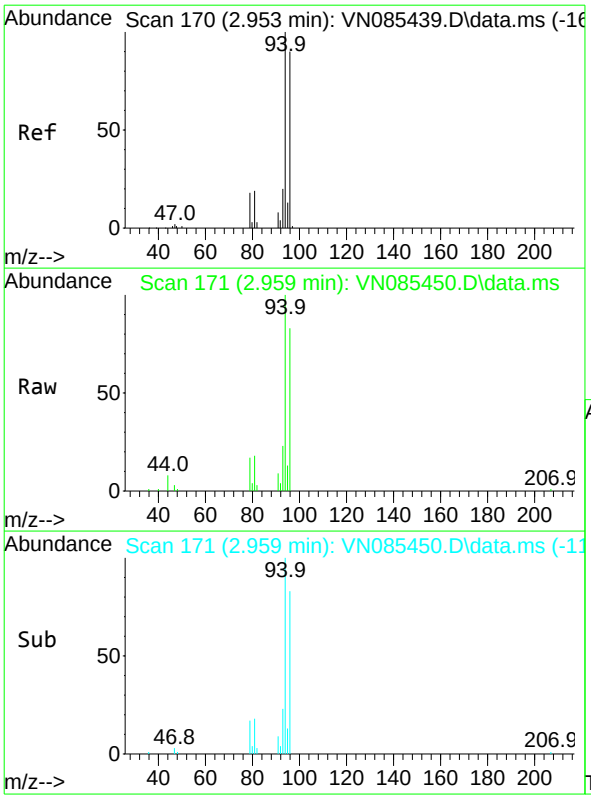


#4
Vinyl Chloride
Concen: 18.175 ug/l
RT: 2.518 min Scan# 96
Delta R.T. 0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 62 Resp: 55927

Ion	Ratio	Lower	Upper
62	100		
64	32.2	24.8	37.2

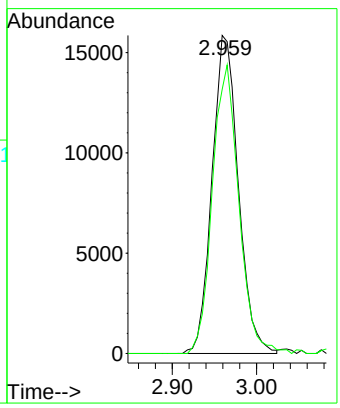




#5
Bromomethane
Concen: 18.509 ug/l
RT: 2.959 min Scan# 17
Delta R.T. 0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 94 Resp: 34404

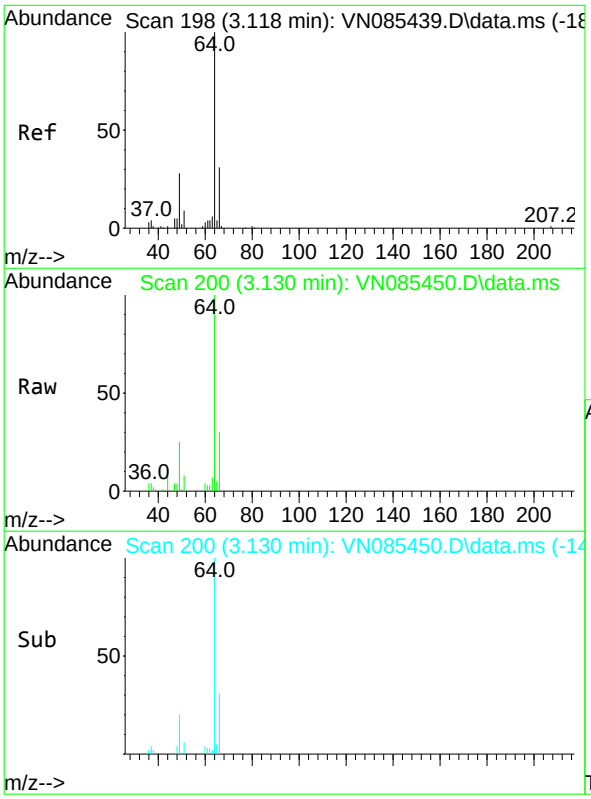
Ion	Ratio	Lower	Upper
94	100		
96	83.0	71.8	107.6



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Manual Integrations
APPROVED

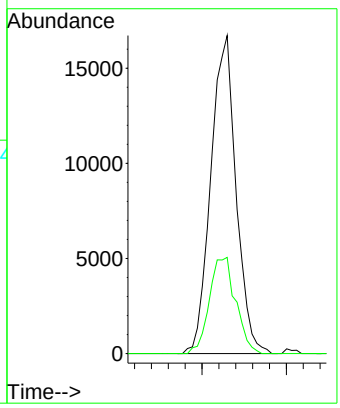
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

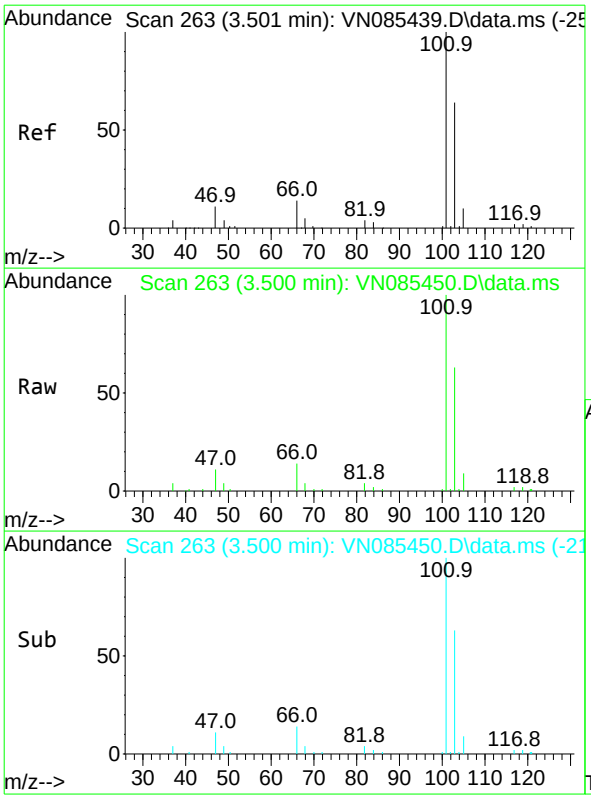


#6
Chloroethane
Concen: 17.847 ug/l
RT: 3.130 min Scan# 200
Delta R.T. 0.012 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 64 Resp: 34817

Ion	Ratio	Lower	Upper
64	100		
66	30.2	24.6	36.8

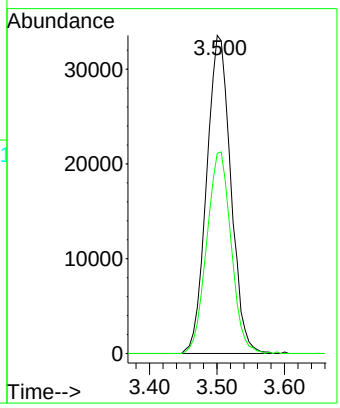




#7
Trichlorofluoromethane
Concen: 18.695 ug/l
RT: 3.500 min Scan# 26
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion:101 Resp: 83471

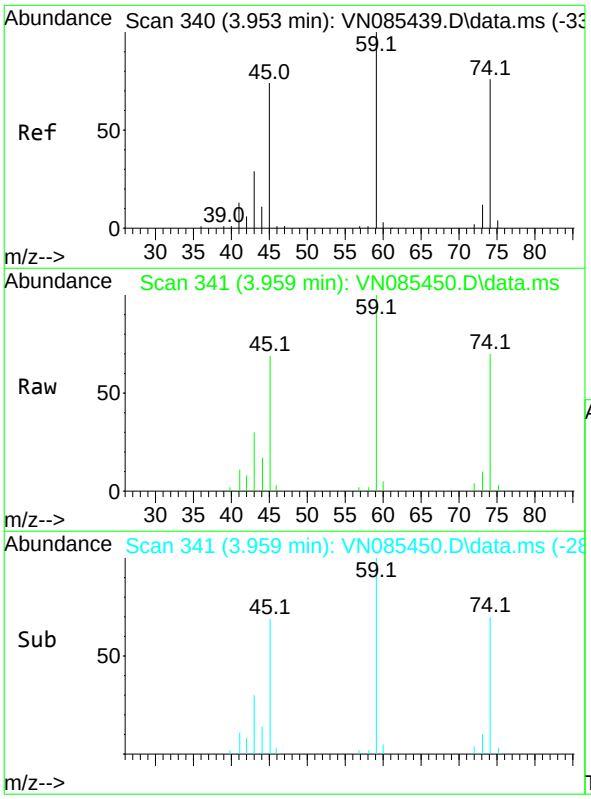
Ion	Ratio	Lower	Upper
101	100		
103	62.9	51.4	77.2



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Manual Integrations APPROVED

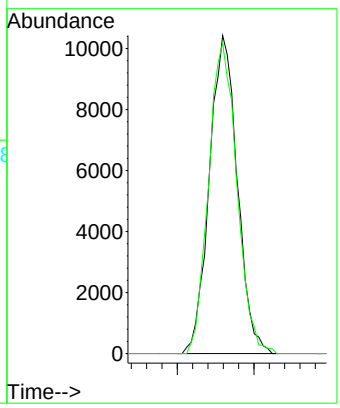
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

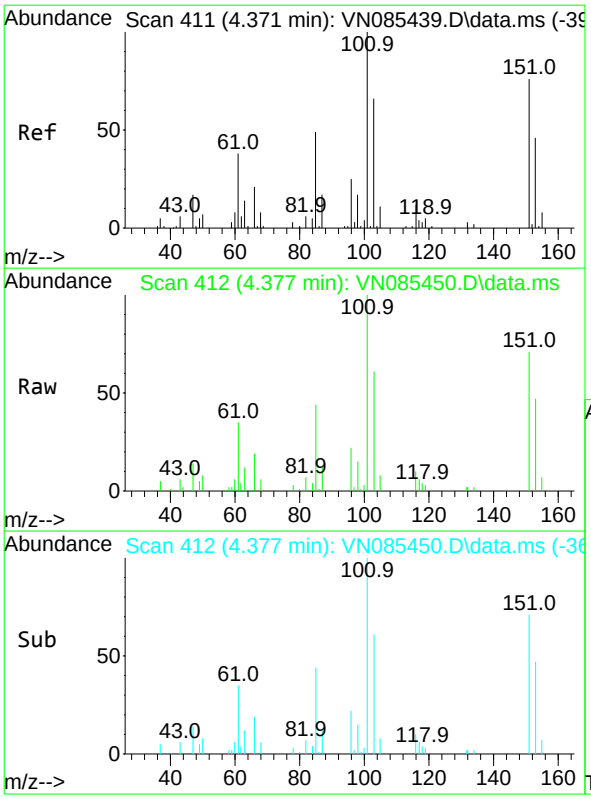


#8
Diethyl Ether
Concen: 17.097 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 74 Resp: 26372

Ion	Ratio	Lower	Upper
74	100		
45	98.9	49.7	149.1





#9
1,1,2-Trichlorotrifluoroethane
Concen: 18.954 ug/l
RT: 4.377 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

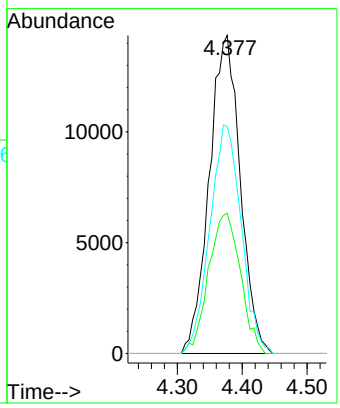
Tgt Ion:101 Resp: 47665

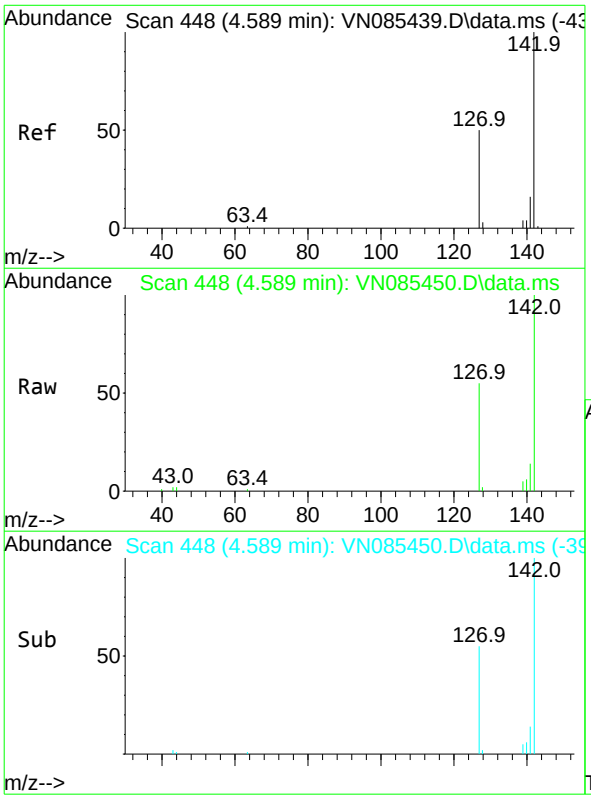
Ion	Ratio	Lower	Upper
101	100		
85	45.2	37.8	56.8
151	72.6	58.8	88.2

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

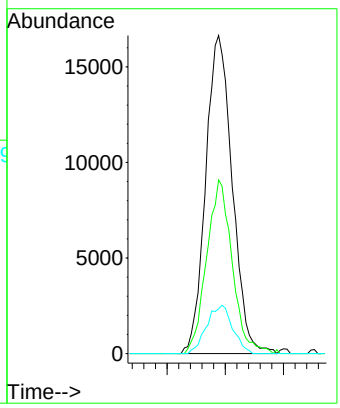


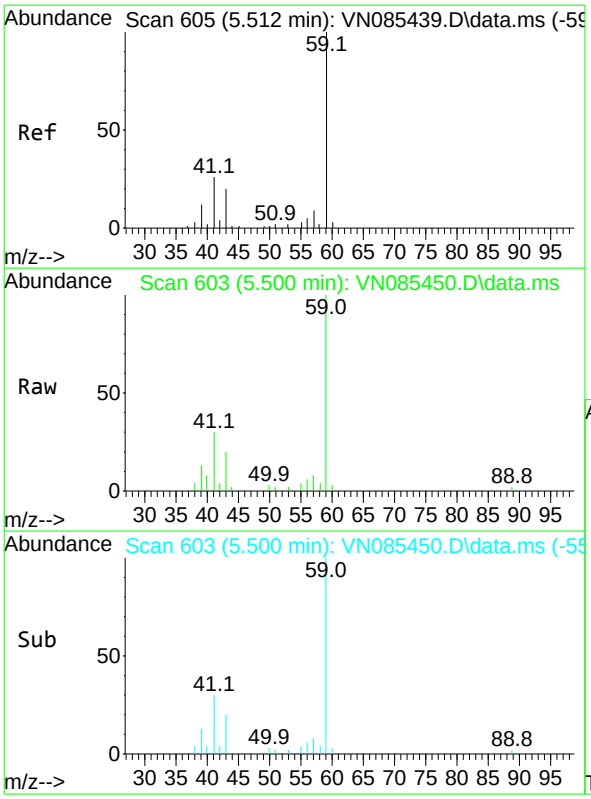


#10
Methyl Iodide
Concen: 18.346 ug/l
RT: 4.589 min Scan# 448
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion:142 Resp: 52836

Ion	Ratio	Lower	Upper
142	100		
127	54.6	40.3	60.5
141	14.1	12.8	19.2

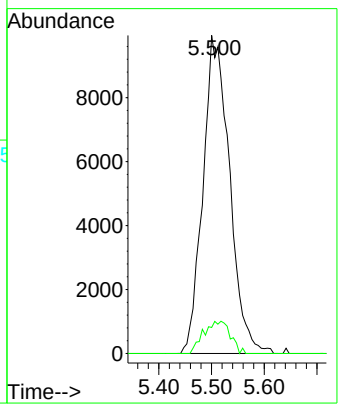




#11
Tert butyl alcohol
Concen: 90.264 ug/l
RT: 5.500 min Scan# 60
Delta R.T. -0.012 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 59 Resp: 34842

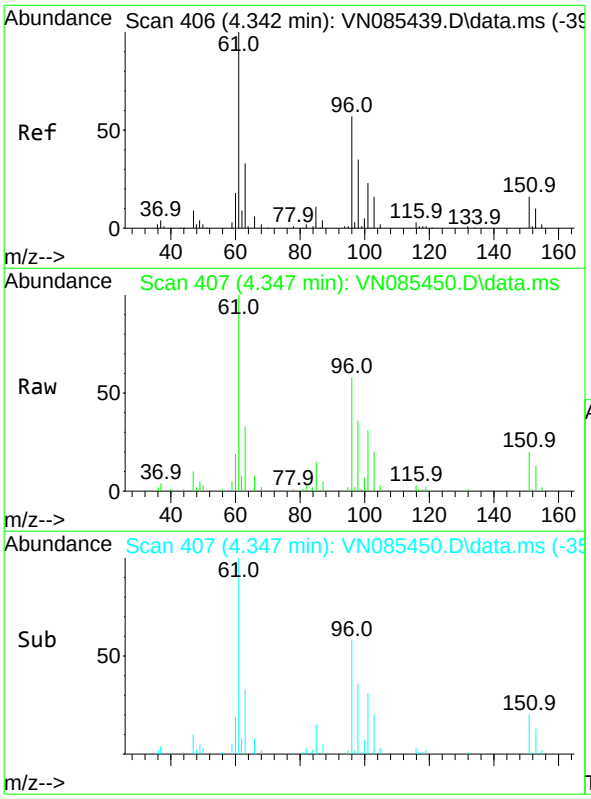
Ion	Ratio	Lower	Upper
59	100		
57	10.2	8.6	13.0



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Manual Integrations APPROVED

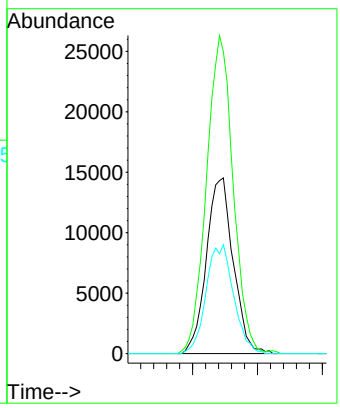
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

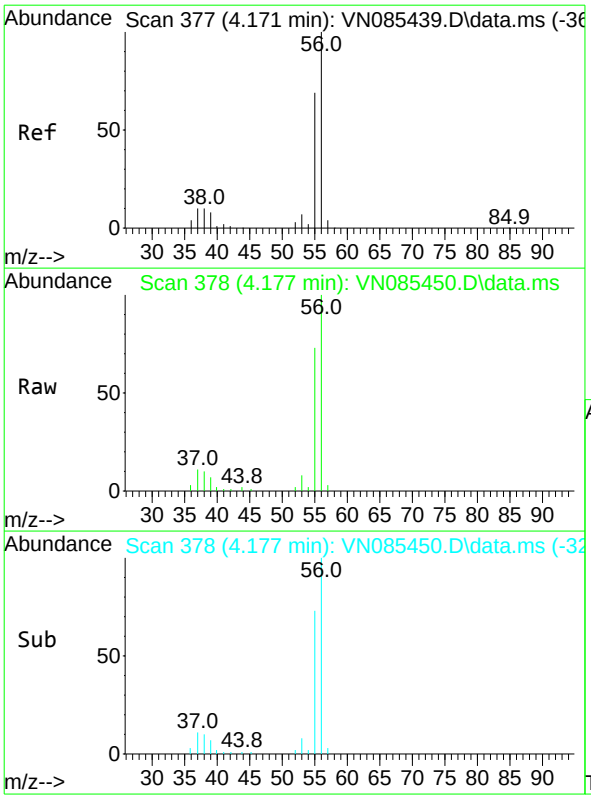


#12
1,1-Dichloroethene
Concen: 18.645 ug/l
RT: 4.347 min Scan# 407
Delta R.T. 0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 96 Resp: 41789

Ion	Ratio	Lower	Upper
96	100		
61	171.8	141.0	211.4
98	62.0	49.0	73.6

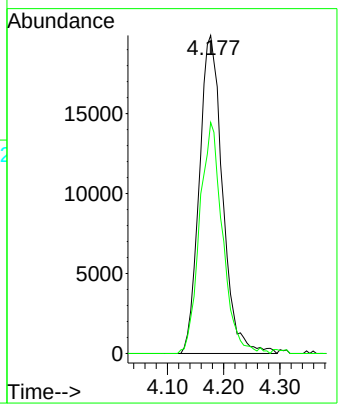




#13
Acrolein
Concen: 108.299 ug/l
RT: 4.177 min Scan# 37
Delta R.T. 0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 56 Resp: 57066

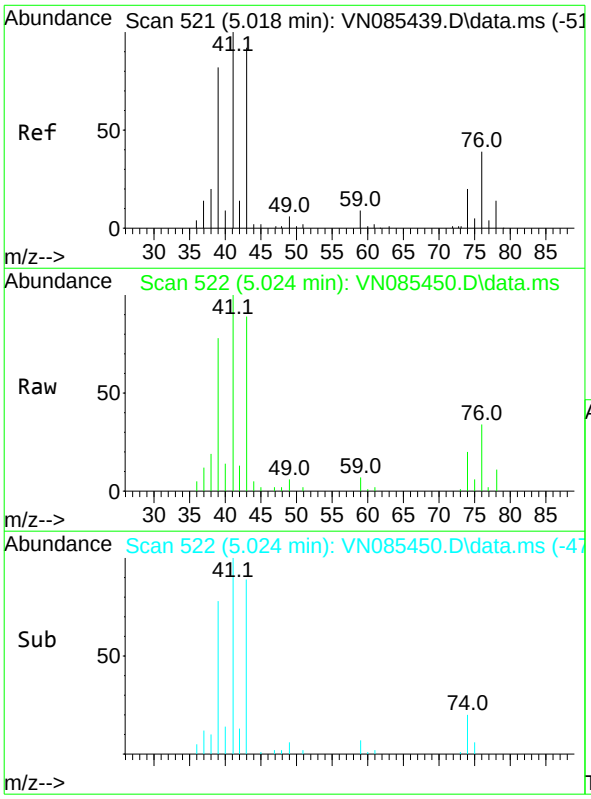
Ion	Ratio	Lower	Upper
56	100		
55	71.4	56.3	84.5



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Manual Integrations
APPROVED

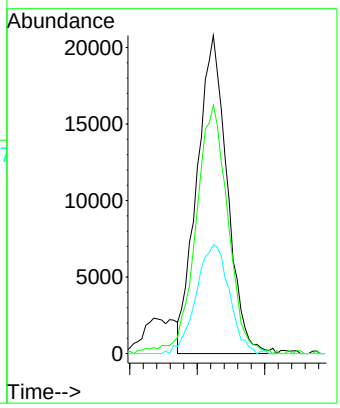
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

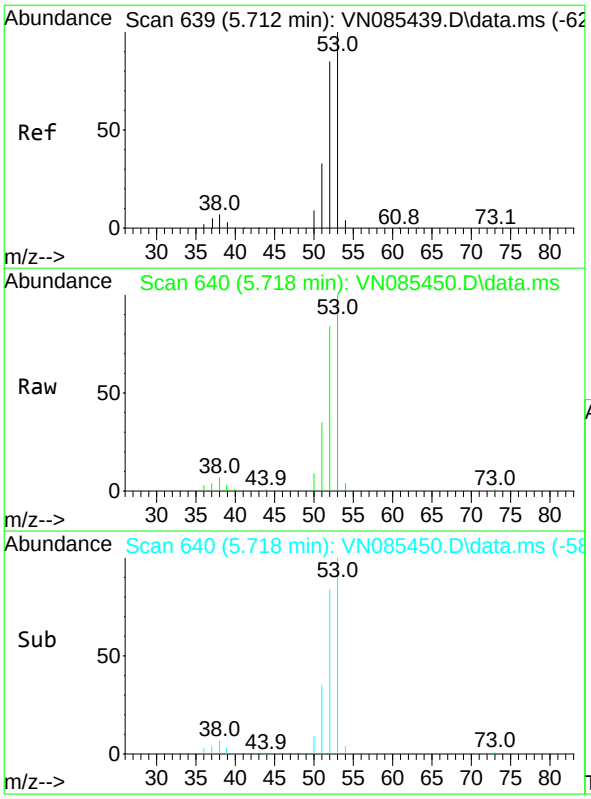


#14
Allyl chloride
Concen: 17.785 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 41 Resp: 64682

Ion	Ratio	Lower	Upper
41	100		
39	83.1	64.4	96.6
76	37.5	30.5	45.7

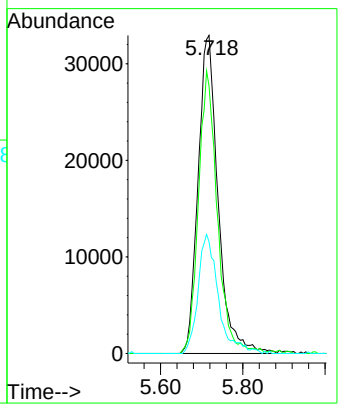




#15
Acrylonitrile
Concen: 90.690 ug/l
RT: 5.718 min Scan# 64
Delta R.T. 0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 53 Resp: 111192

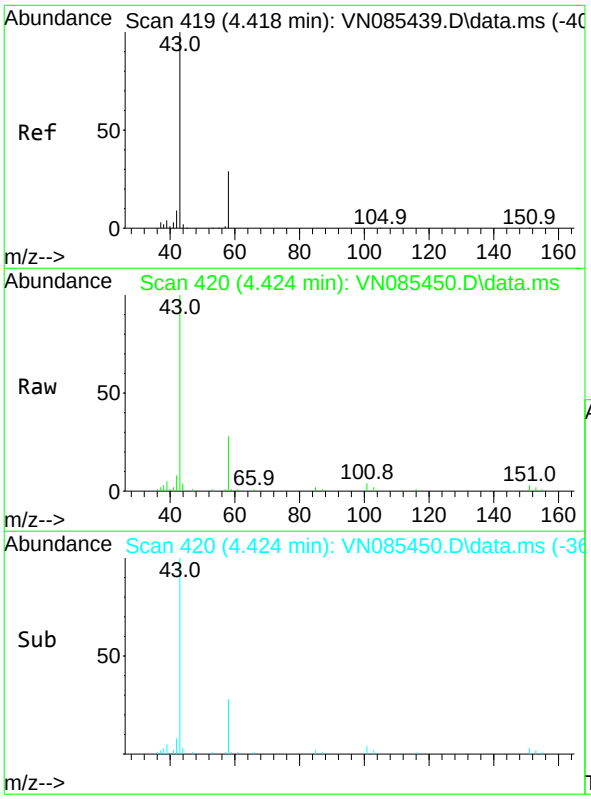
Ion	Ratio	Lower	Upper
53	100		
52	83.8	65.5	98.3
51	37.5	29.8	44.8



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Manual Integrations APPROVED

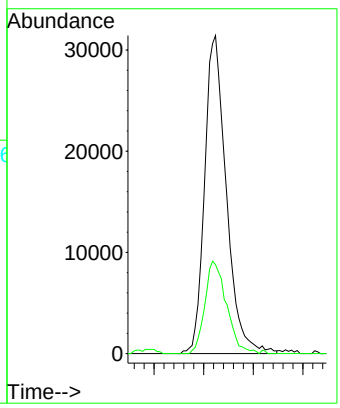
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

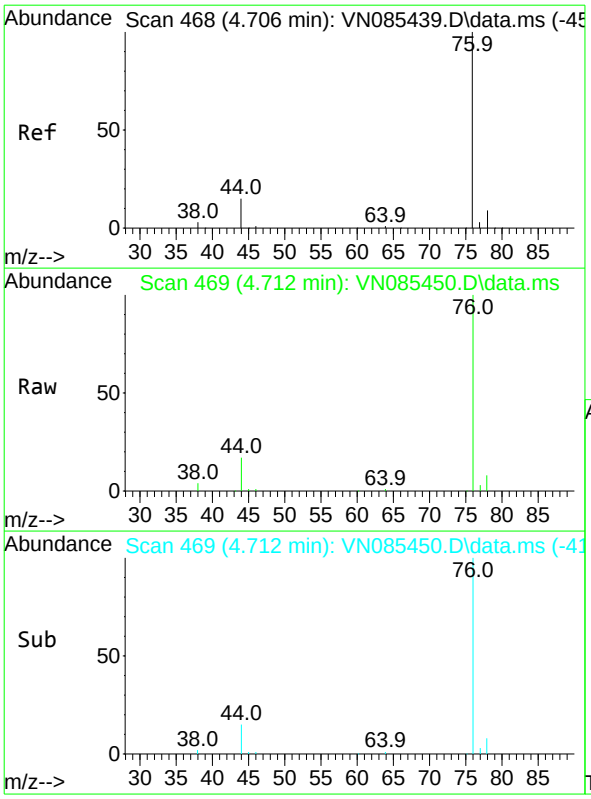


#16
Acetone
Concen: 87.661 ug/l
RT: 4.424 min Scan# 420
Delta R.T. 0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 43 Resp: 95481

Ion	Ratio	Lower	Upper
43	100		
58	28.0	23.8	35.6

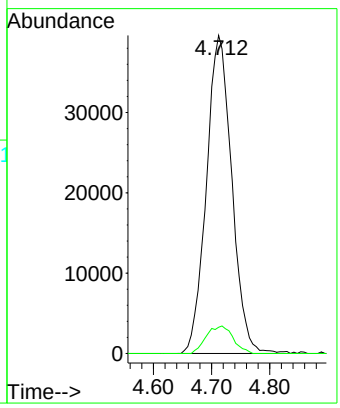




#17
Carbon Disulfide
Concen: 17.395 ug/l
RT: 4.712 min Scan# 46
Delta R.T. 0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 76 Resp: 120042

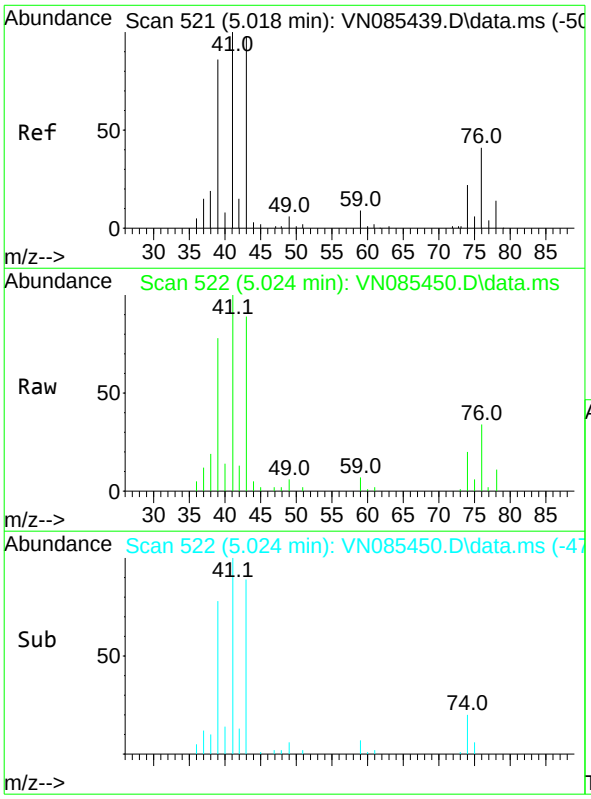
Ion	Ratio	Lower	Upper
76	100		
78	8.2	6.9	10.3



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Manual Integrations
APPROVED

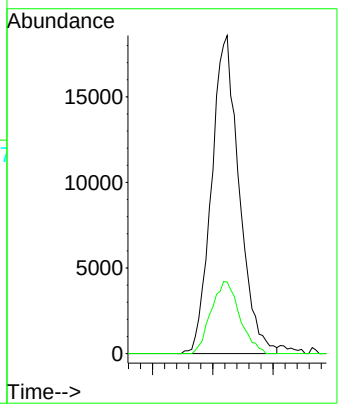
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

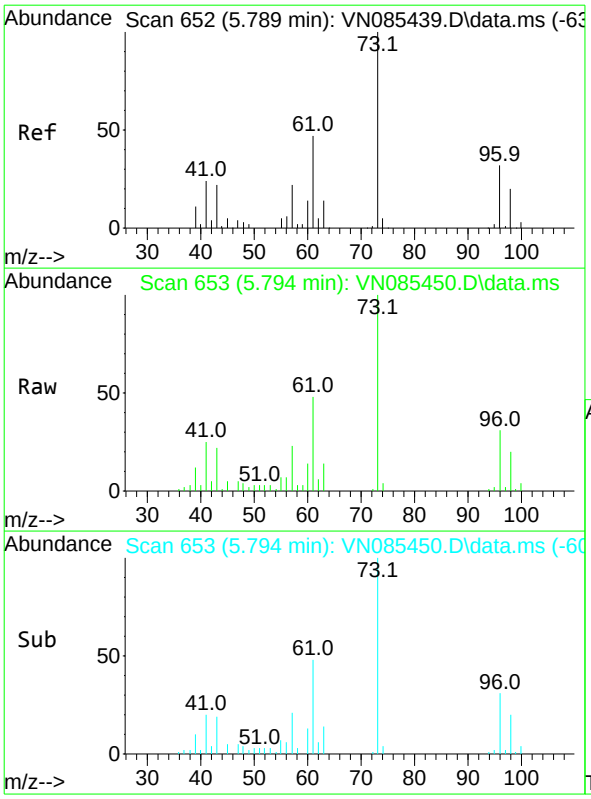


#18
Methyl Acetate
Concen: 17.906 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 43 Resp: 59306

Ion	Ratio	Lower	Upper
43	100		
74	23.4	18.6	28.0





#19
Methyl tert-butyl Ether
Concen: 18.700 ug/l
RT: 5.794 min Scan# 65
Delta R.T. 0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

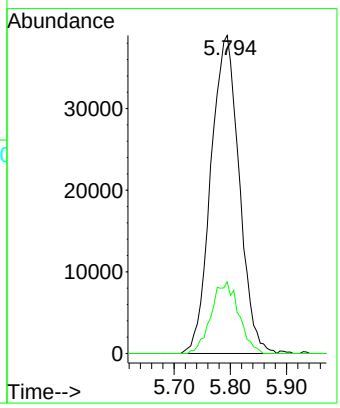
Tgt Ion: 73 Resp: 136088

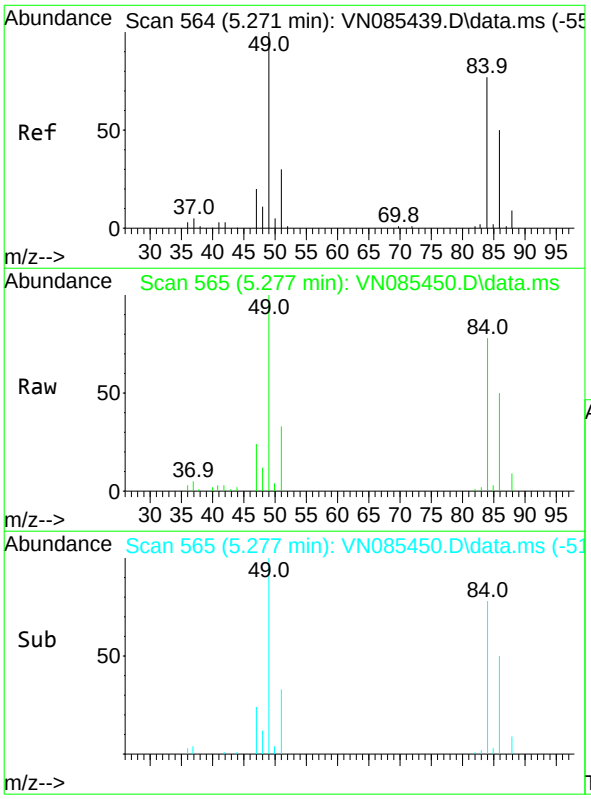
Ion	Ratio	Lower	Upper
73	100		
57	22.5	17.8	26.8

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

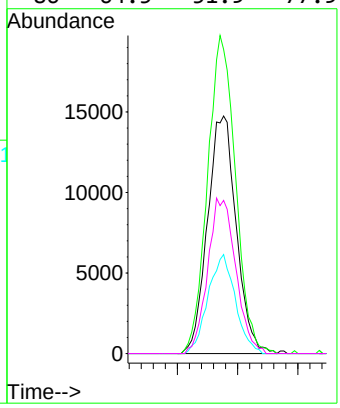


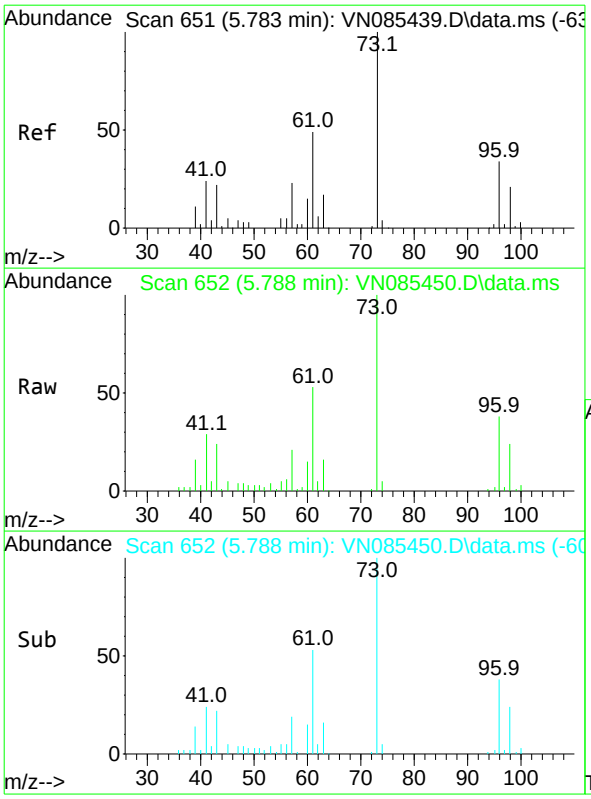


#20
Methylene Chloride
Concen: 18.156 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 84 Resp: 48956

Ion	Ratio	Lower	Upper
84	100		
49	128.0	104.1	156.1
51	41.7	31.0	46.4
86	64.5	51.9	77.9

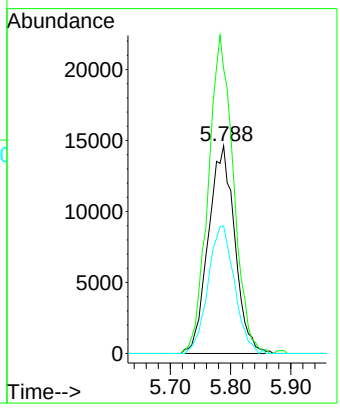




#21
trans-1,2-Dichloroethene
Concen: 18.572 ug/l
RT: 5.788 min Scan# 65
Delta R.T. 0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 96 Resp: 44485

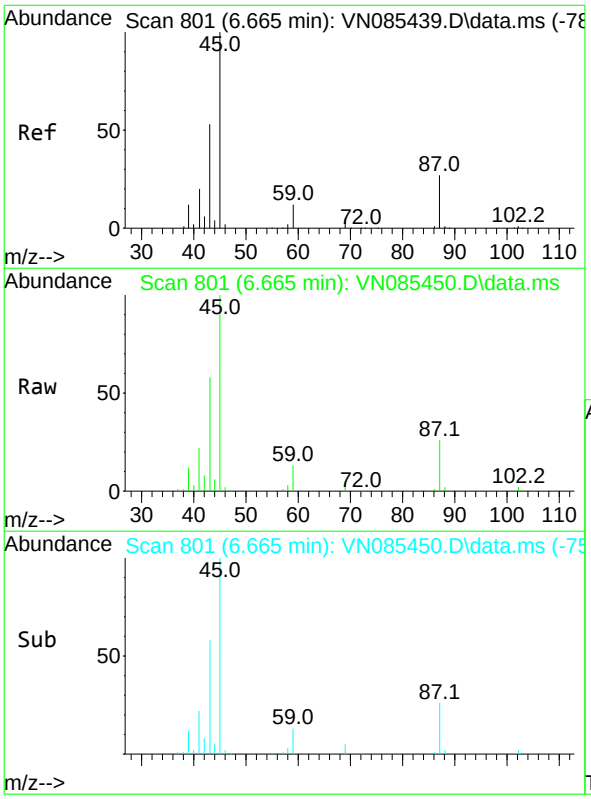
Ion	Ratio	Lower	Upper
96	100		
61	137.2	115.7	173.5
98	61.4	49.8	74.8



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Manual Integrations APPROVED

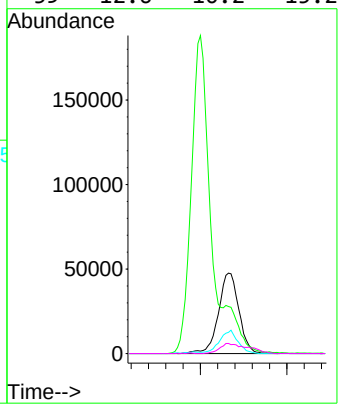
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

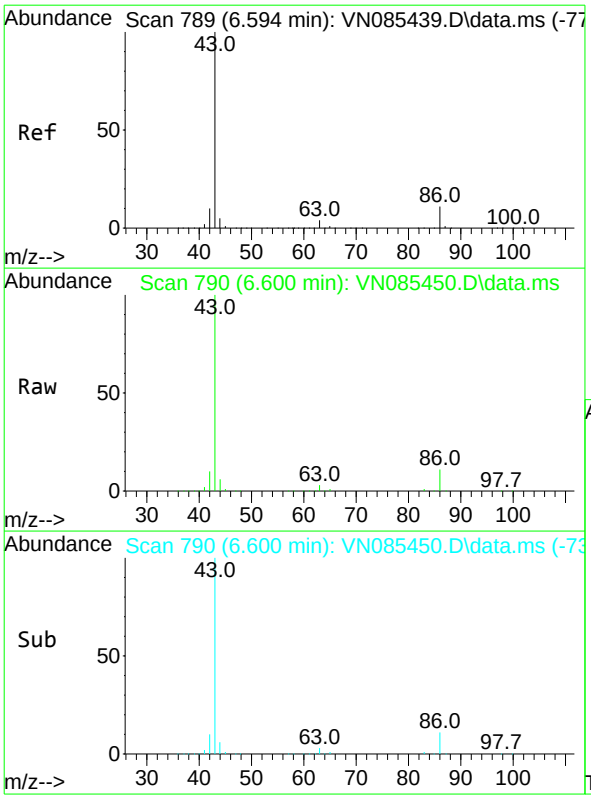


#22
Diisopropyl ether
Concen: 19.339 ug/l
RT: 6.665 min Scan# 801
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 45 Resp: 156113

Ion	Ratio	Lower	Upper
45	100		
43	56.9	45.0	67.6
87	26.4	21.8	32.8
59	12.6	10.2	15.2

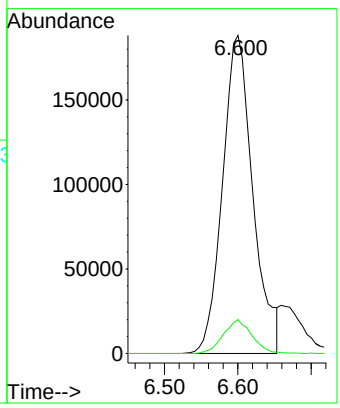




#23
Vinyl Acetate
Concen: 95.740 ug/l
RT: 6.600 min Scan# 79
Delta R.T. 0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 43 Resp: 540854

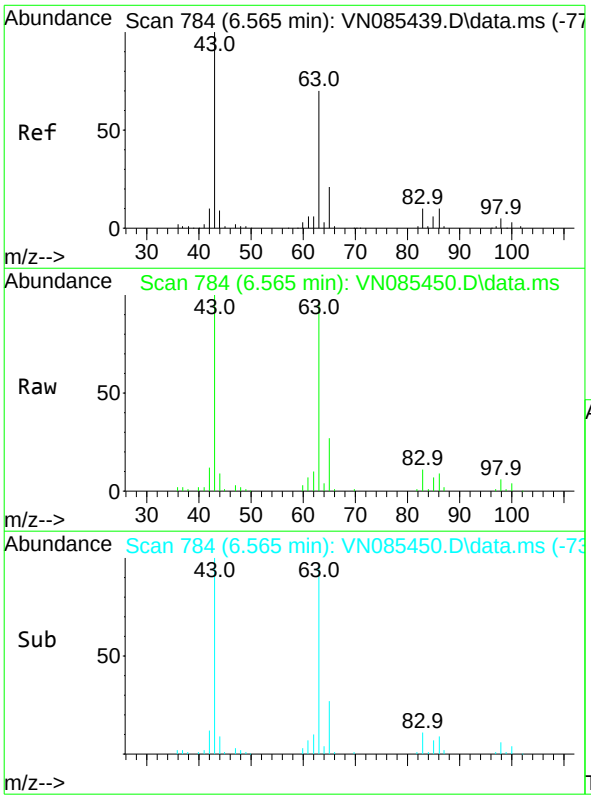
Ion	Ratio	Lower	Upper
43	100		
86	10.7	8.4	12.6



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Manual Integrations APPROVED

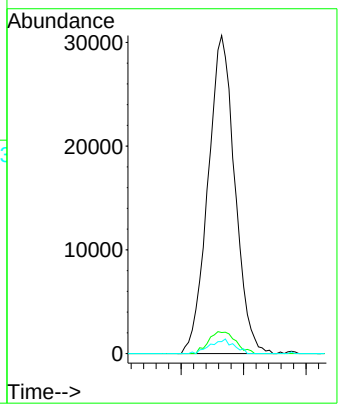
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

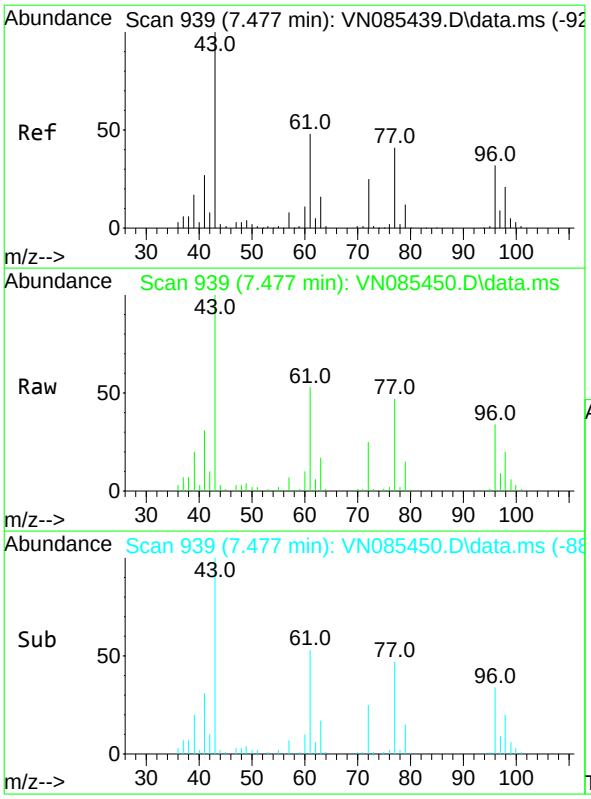


#24
1,1-Dichloroethane
Concen: 18.597 ug/l
RT: 6.565 min Scan# 784
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 63 Resp: 91537

Ion	Ratio	Lower	Upper
63	100		
98	6.6	3.3	9.8
100	3.8	2.0	6.0

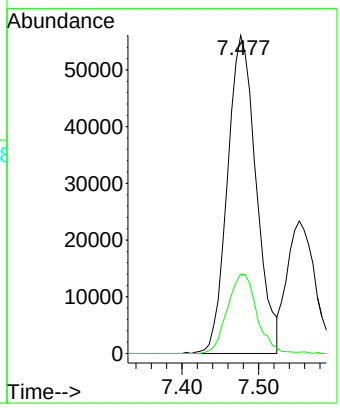




#25
2-Butanone
Concen: 91.155 ug/l
RT: 7.477 min Scan# 93
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 43 Resp: 146109

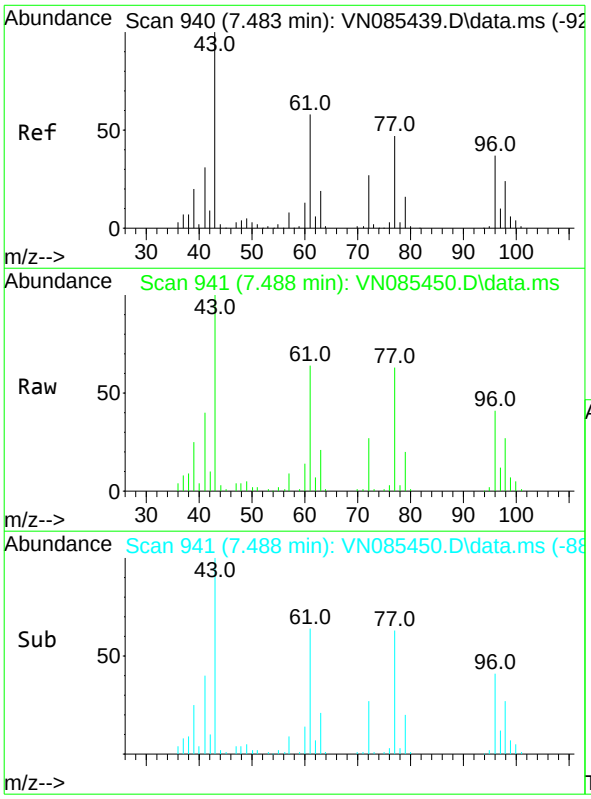
Ion	Ratio	Lower	Upper
43	100		
72	24.9	20.2	30.4



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Manual Integrations
APPROVED

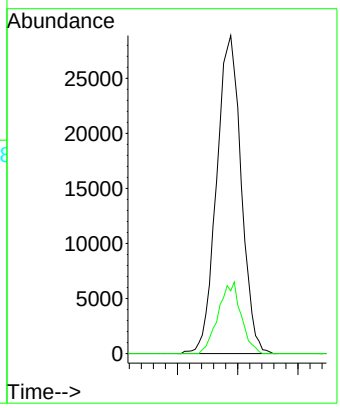
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

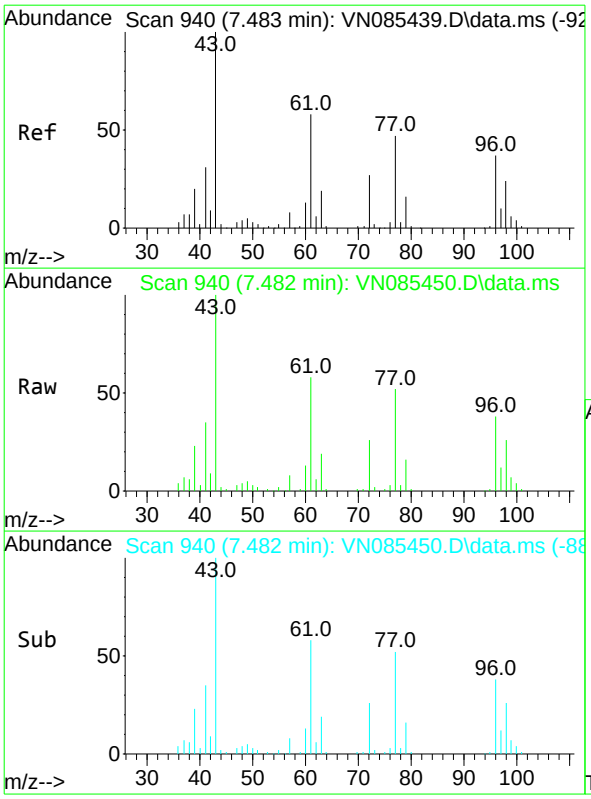


#26
2,2-Dichloropropane
Concen: 20.576 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 77 Resp: 81881

Ion	Ratio	Lower	Upper
77	100		
97	20.8	10.7	32.1

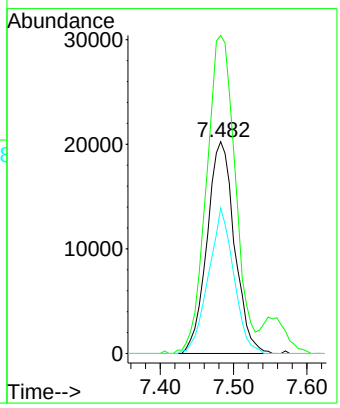




#27
cis-1,2-Dichloroethene
Concen: 18.654 ug/l
RT: 7.482 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 96 Resp: 52626

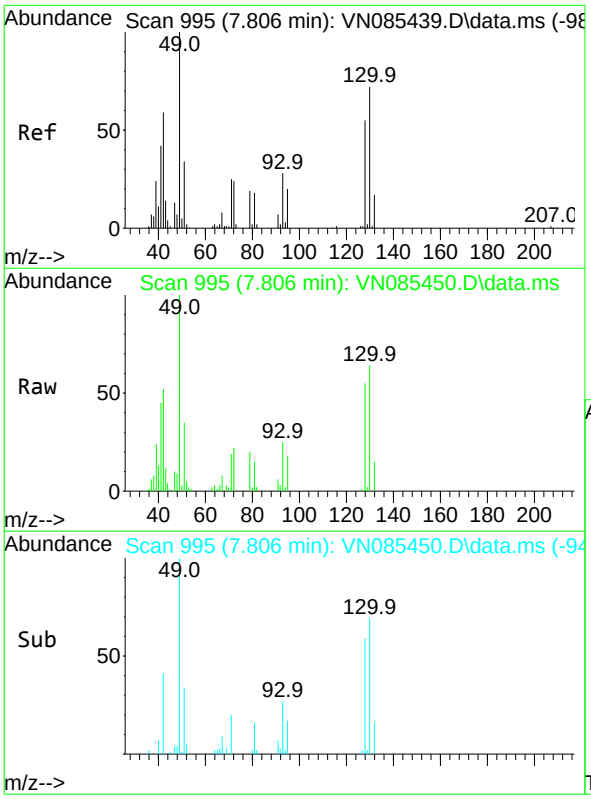
Ion	Ratio	Lower	Upper
96	100		
61	157.4	0.0	311.8
98	63.4	0.0	126.0



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Manual Integrations APPROVED

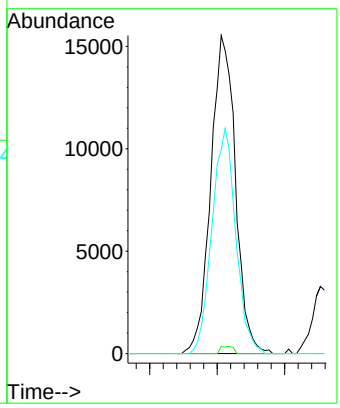
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

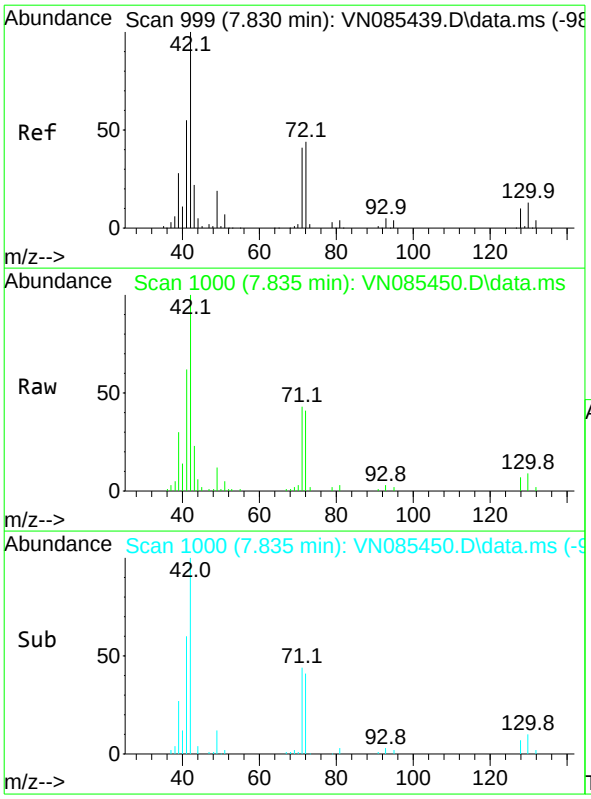


#28
Bromochloromethane
Concen: 17.209 ug/l
RT: 7.806 min Scan# 995
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 49 Resp: 39408

Ion	Ratio	Lower	Upper
49	100		
129	1.2	0.0	4.4
130	68.3	55.0	82.4

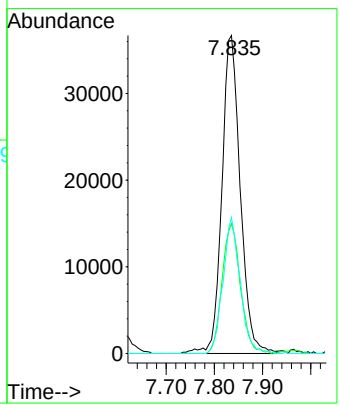




#29
Tetrahydrofuran
Concen: 95.619 ug/l
RT: 7.835 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 42 Resp: 97170

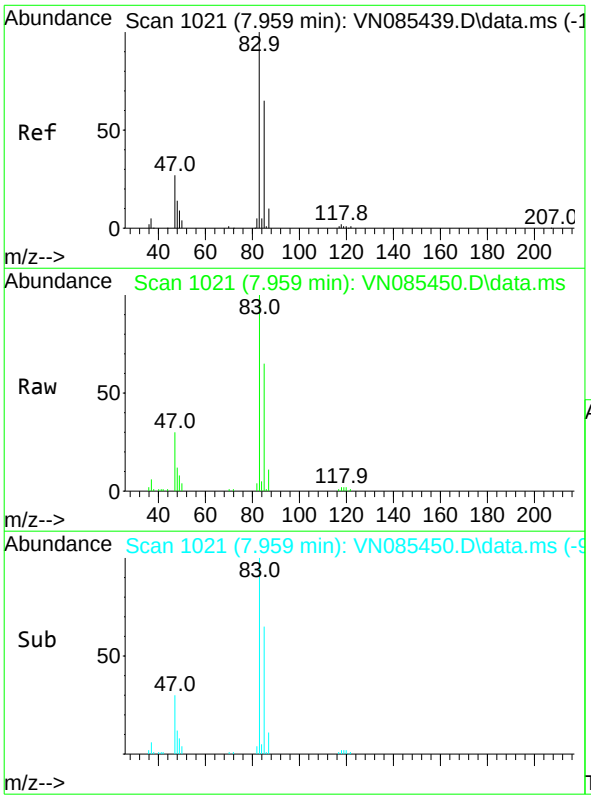
Ion	Ratio	Lower	Upper
42	100		
72	40.8	34.2	51.2
71	39.9	32.5	48.7



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Manual Integrations
APPROVED

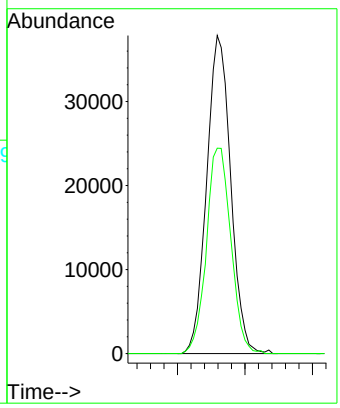
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

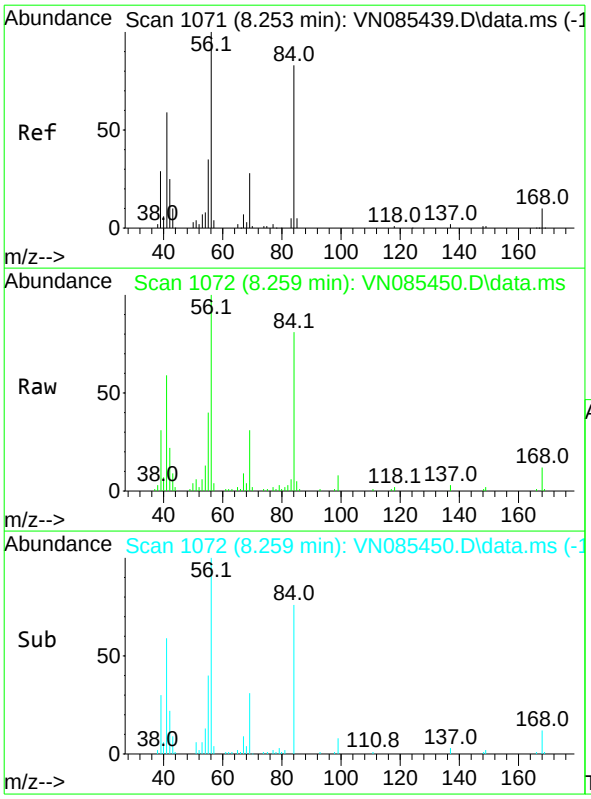


#30
Chloroform
Concen: 18.400 ug/l
RT: 7.959 min Scan# 1021
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 83 Resp: 93604

Ion	Ratio	Lower	Upper
83	100		
85	64.6	51.8	77.6

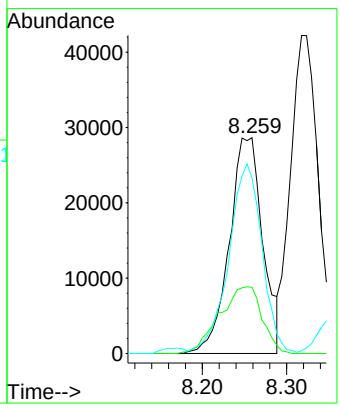




#31
Cyclohexane
Concen: 18.500 ug/l
RT: 8.259 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 56 Resp: 79144

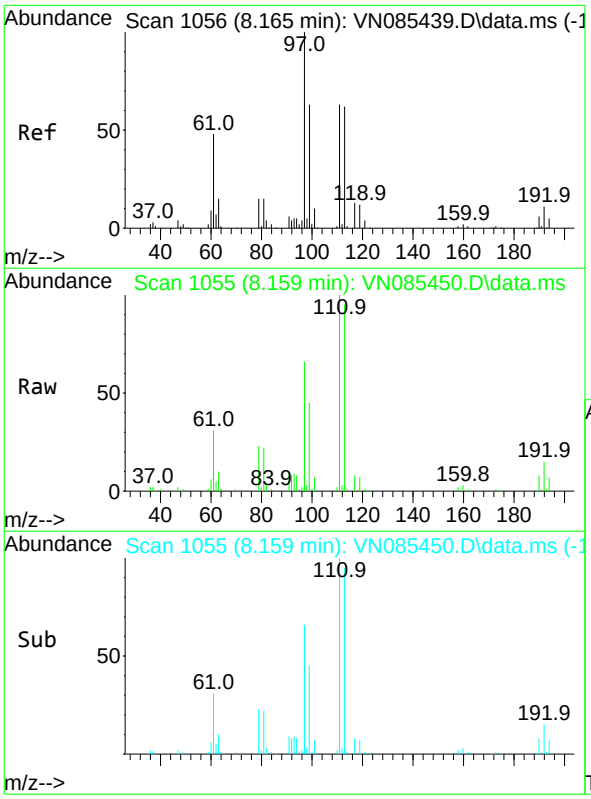
Ion	Ratio	Lower	Upper
56	100		
69	30.0	22.2	33.4
84	78.9	66.4	99.6



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Manual Integrations APPROVED

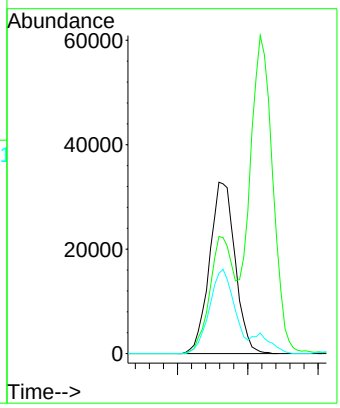
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

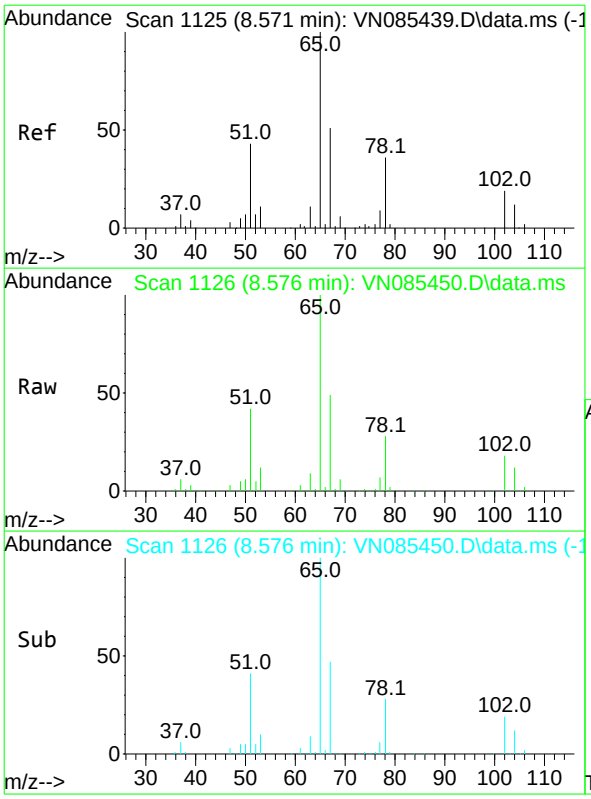


#32
1,1,1-Trichloroethane
Concen: 18.618 ug/l
RT: 8.159 min Scan# 1055
Delta R.T. -0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 97 Resp: 83081

Ion	Ratio	Lower	Upper
97	100		
99	61.6	49.8	74.6
61	48.2	41.4	62.2

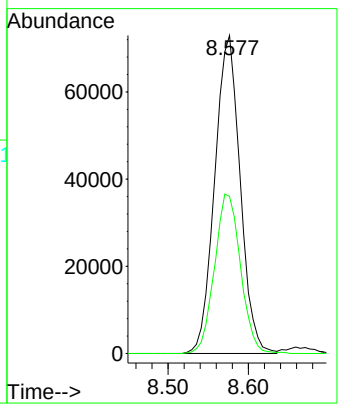




#33
1,2-Dichloroethane-d4
Concen: 47.611 ug/l
RT: 8.576 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 65 Resp: 160496

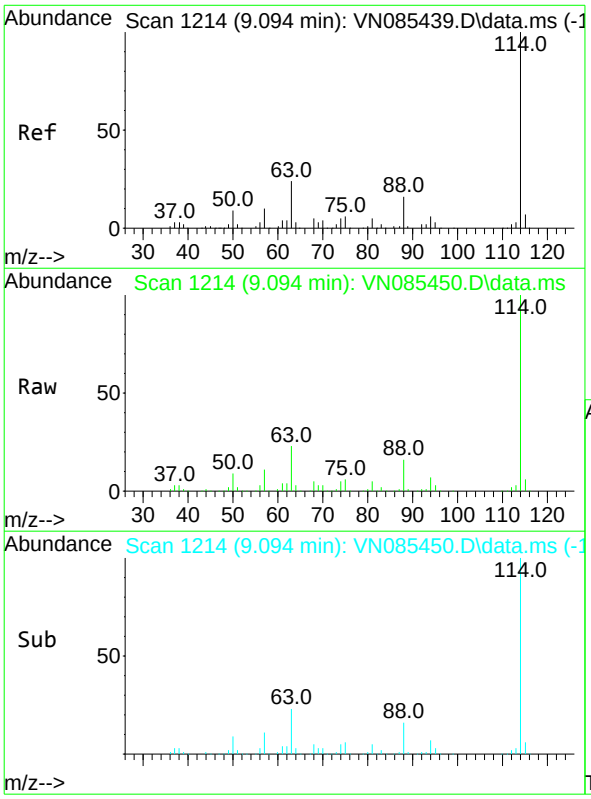
Ion	Ratio	Lower	Upper
65	100		
67	51.3	0.0	101.6



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Manual Integrations APPROVED

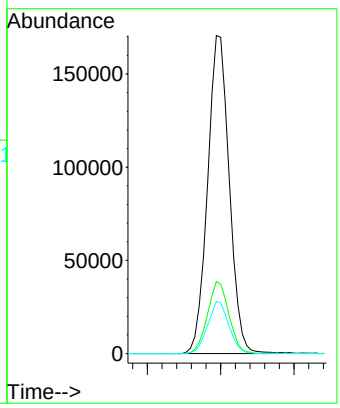
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

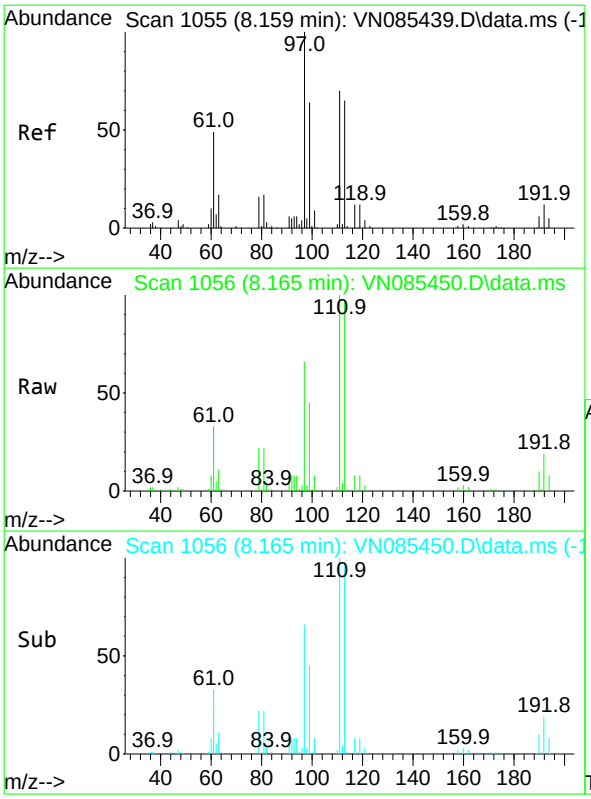


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.094 min Scan# 1214
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion:114 Resp: 350038

Ion	Ratio	Lower	Upper
114	100		
63	22.7	0.0	47.6
88	16.4	0.0	32.6

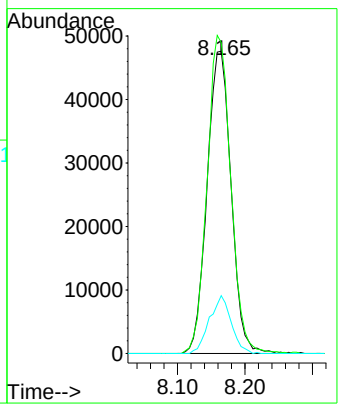




#35
Dibromofluoromethane
Concen: 48.506 ug/l
RT: 8.165 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion:113 Resp: 117791

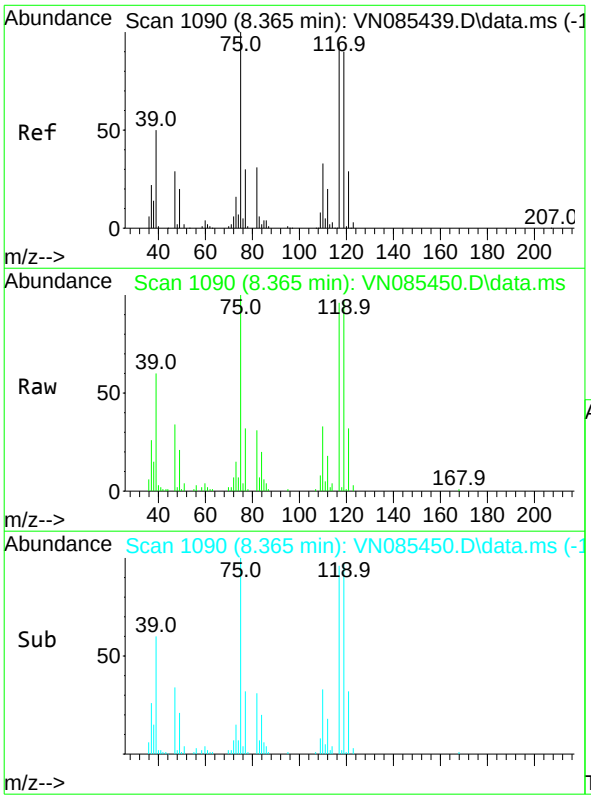
Ion	Ratio	Lower	Upper
113	100		
111	103.8	82.7	124.1
192	17.4	14.3	21.5



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Manual Integrations APPROVED

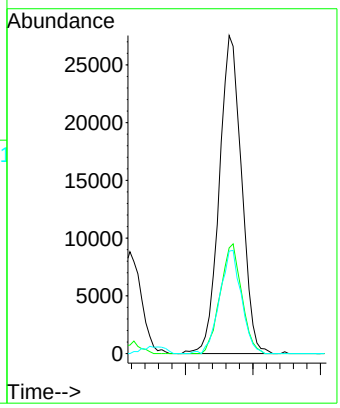
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

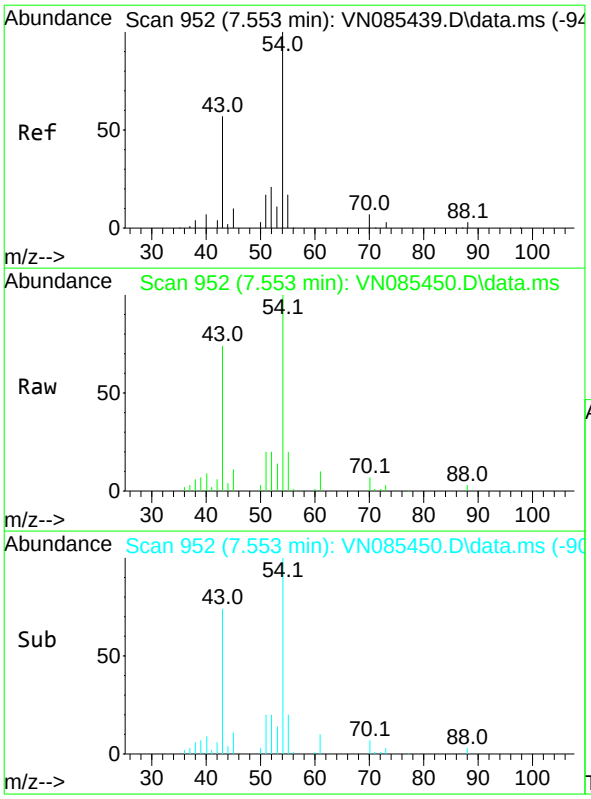


#36
1,1-Dichloropropene
Concen: 18.521 ug/l
RT: 8.365 min Scan# 1090
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 75 Resp: 63125

Ion	Ratio	Lower	Upper
75	100		
110	33.2	16.5	49.5
77	31.7	24.4	36.6

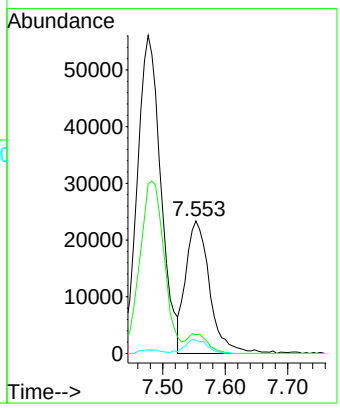




#37
Ethyl Acetate
Concen: 18.113 ug/l
RT: 7.553 min Scan# 95
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 43 Resp: 62310

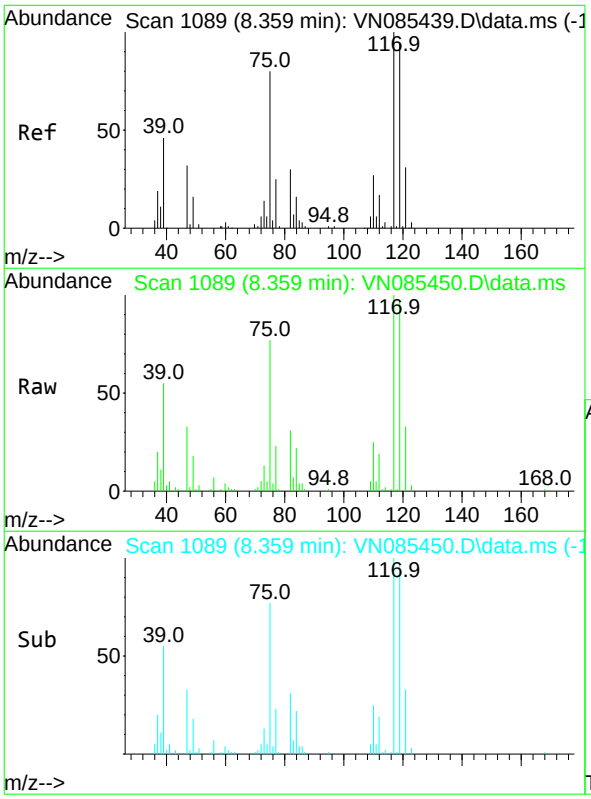
Ion	Ratio	Lower	Upper
43	100		
61	12.0	10.9	16.3
70	9.8	7.5	11.3



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Manual Integrations
APPROVED

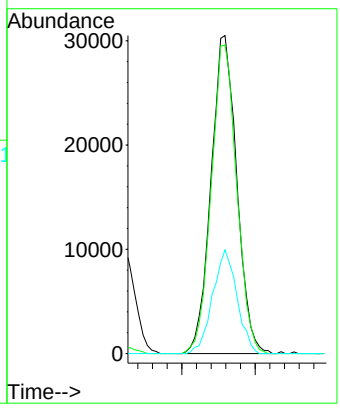
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

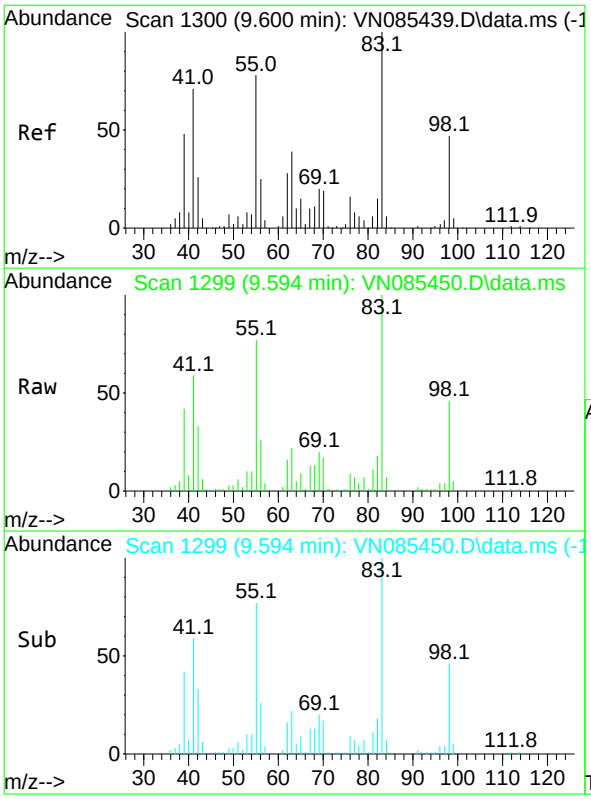


#38
Carbon Tetrachloride
Concen: 19.039 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion:117 Resp: 74287

Ion	Ratio	Lower	Upper
117	100		
119	97.1	75.4	113.2
121	32.6	24.6	37.0

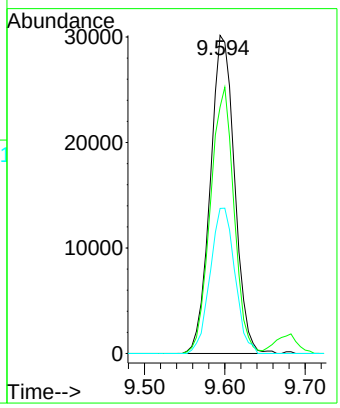




#39
Methylcyclohexane
Concen: 19.799 ug/l
RT: 9.594 min Scan# 12
Delta R.T. -0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 83 Resp: 63410

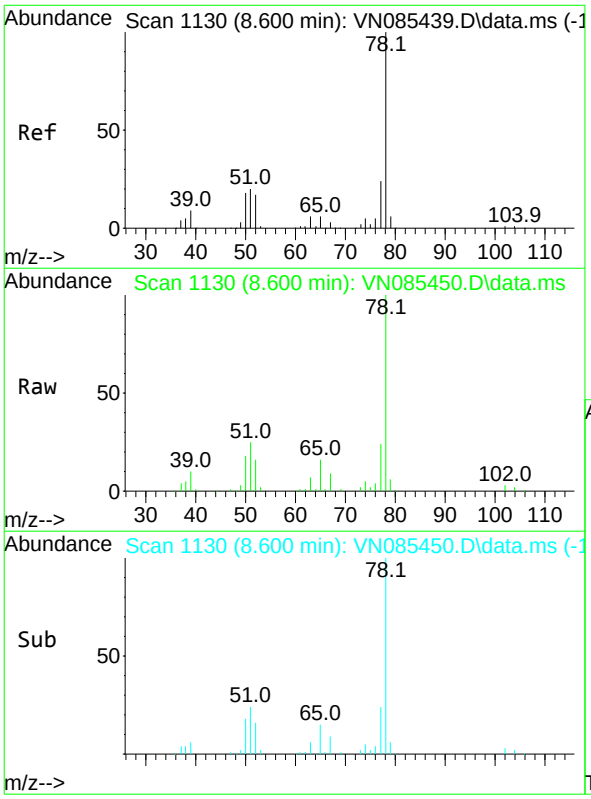
Ion	Ratio	Lower	Upper
83	100		
55	77.5	62.6	94.0
98	45.6	37.7	56.5



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Manual Integrations APPROVED

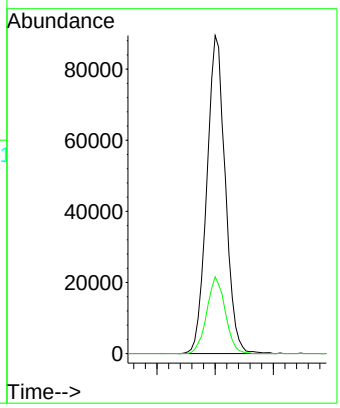
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

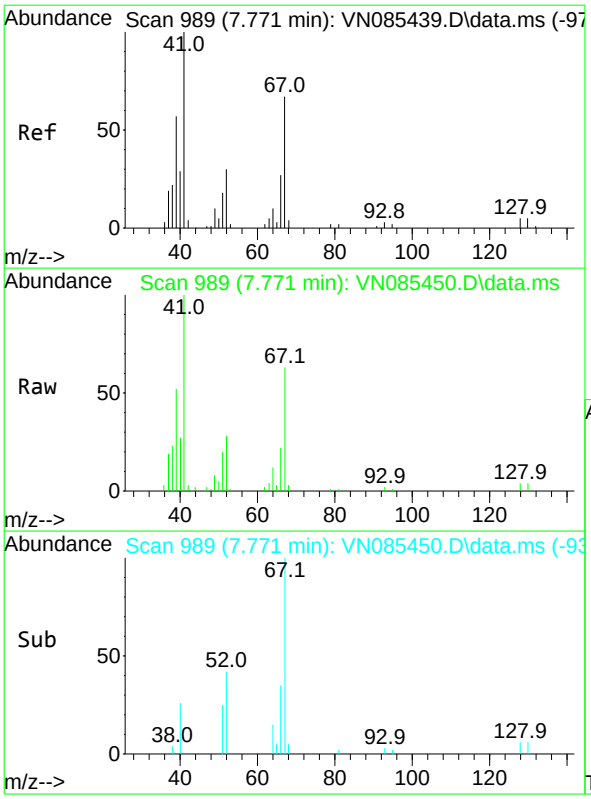


#40
Benzene
Concen: 19.222 ug/l
RT: 8.600 min Scan# 1130
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 78 Resp: 196843

Ion	Ratio	Lower	Upper
78	100		
77	24.1	19.0	28.6

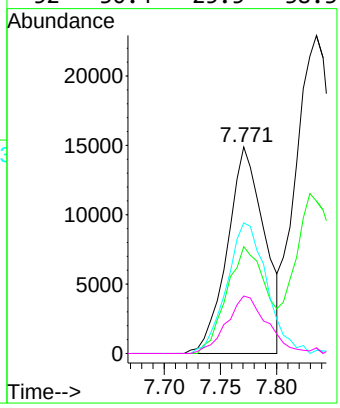




#41
Methacrylonitrile
Concen: 19.082 ug/l
RT: 7.771 min Scan# 98
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 41 Resp: 34152

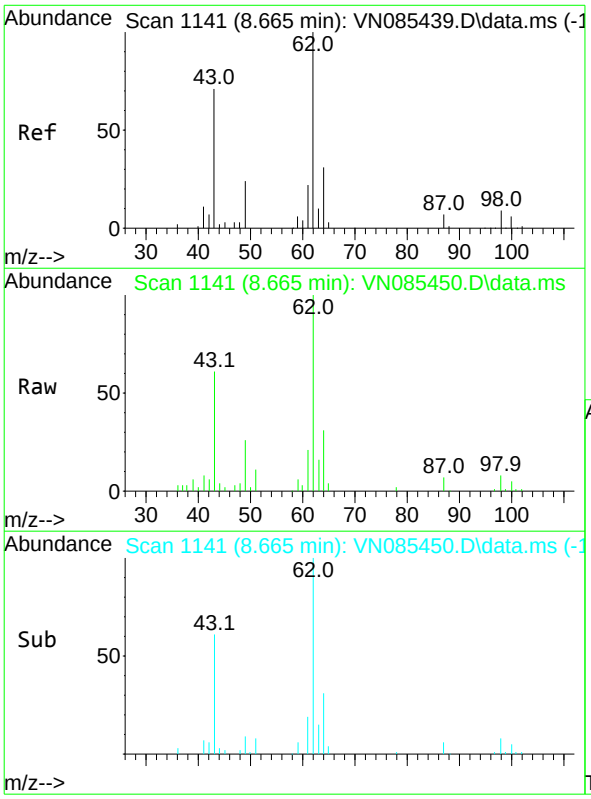
Ion	Ratio	Lower	Upper
41	100		
39	55.0	46.0	69.0
67	68.1	57.4	86.2
52	30.4	25.5	38.3



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Manual Integrations APPROVED

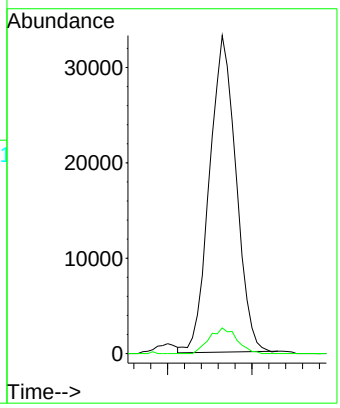
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

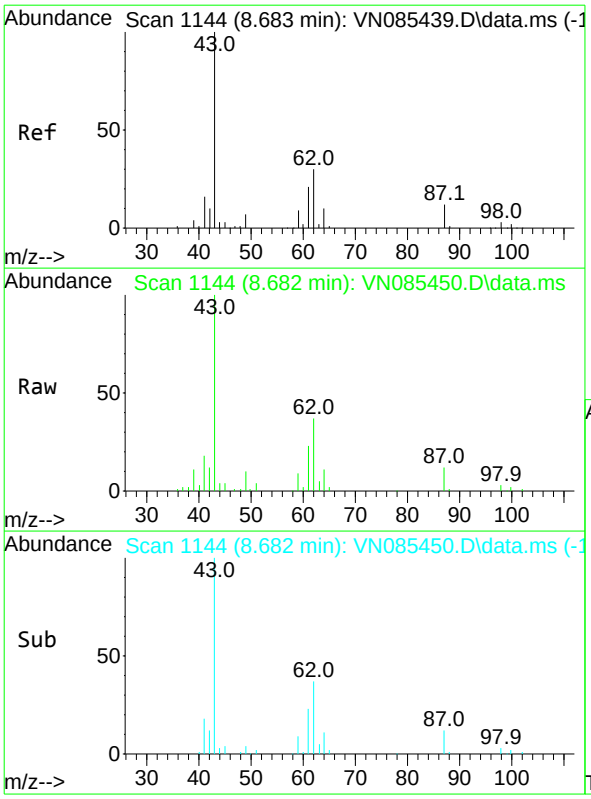


#42
1,2-Dichloroethane
Concen: 18.835 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 62 Resp: 72644

Ion	Ratio	Lower	Upper
62	100		
98	8.4	0.0	17.0

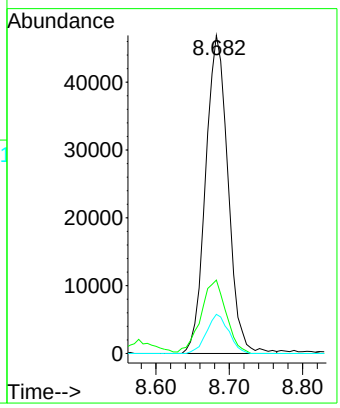




#43
Isopropyl Acetate
Concen: 18.059 ug/l
RT: 8.682 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 43 Resp: 99545

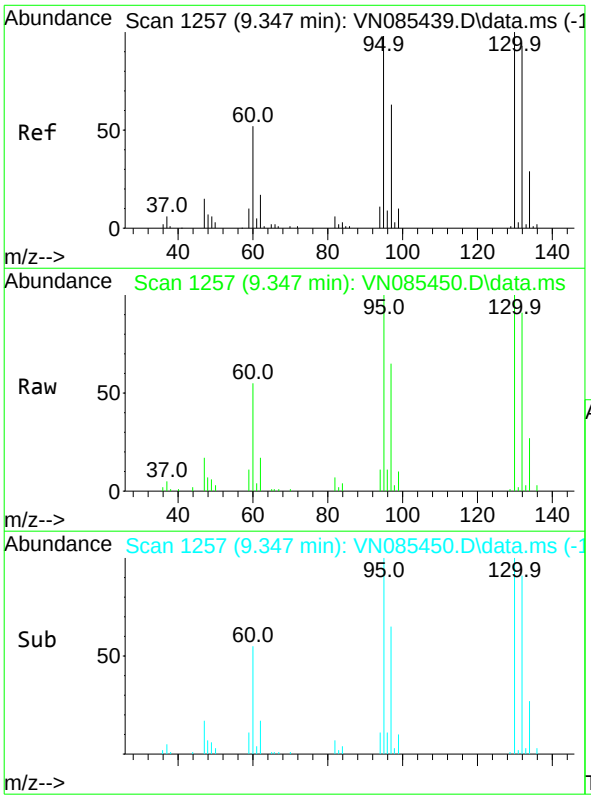
Ion	Ratio	Lower	Upper
43	100		
61	26.0	20.7	31.1
87	12.1	9.8	14.8



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Manual Integrations
APPROVED

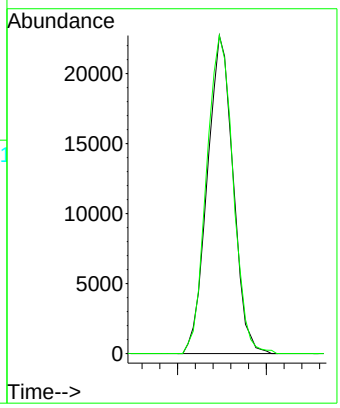
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

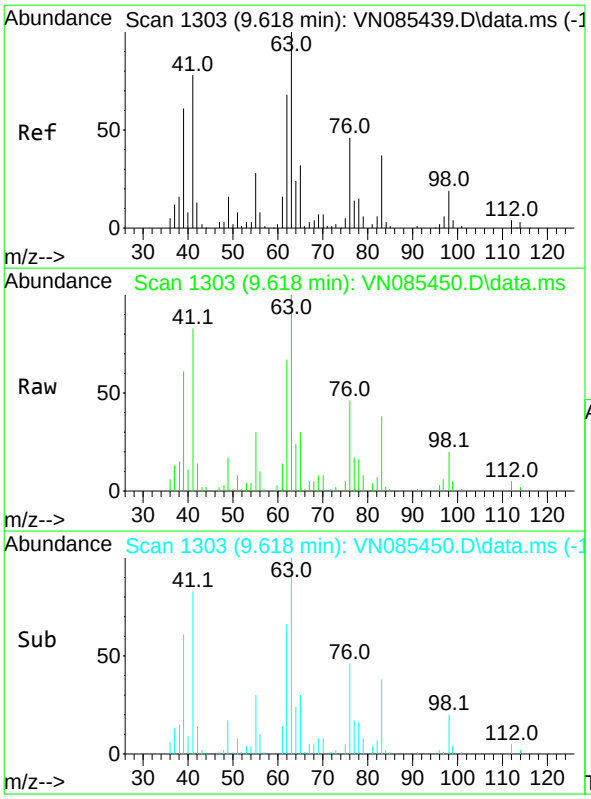


#44
Trichloroethene
Concen: 19.224 ug/l
RT: 9.347 min Scan# 1257
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion:130 Resp: 45825

Ion	Ratio	Lower	Upper
130	100		
95	100.0	0.0	195.8

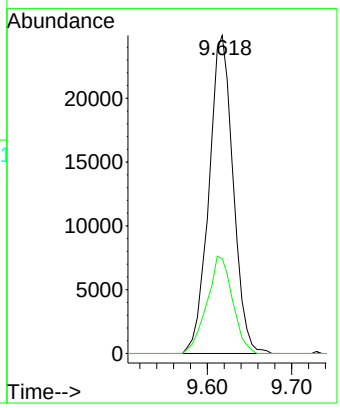




#45
1,2-Dichloropropane
Concen: 18.931 ug/l
RT: 9.618 min Scan# 13
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 63 Resp: 49517

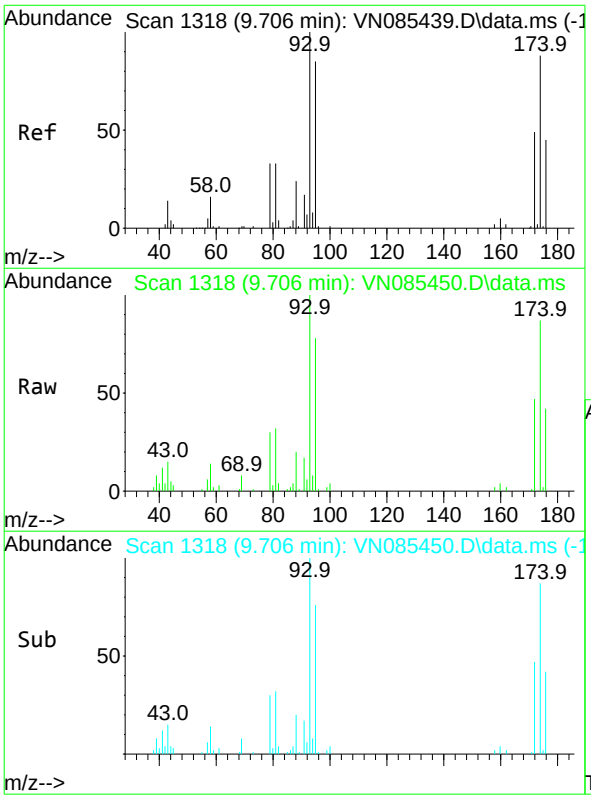
Ion	Ratio	Lower	Upper
63	100		
65	29.8	25.6	38.4



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Manual Integrations APPROVED

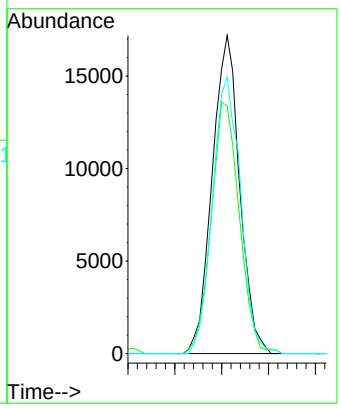
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

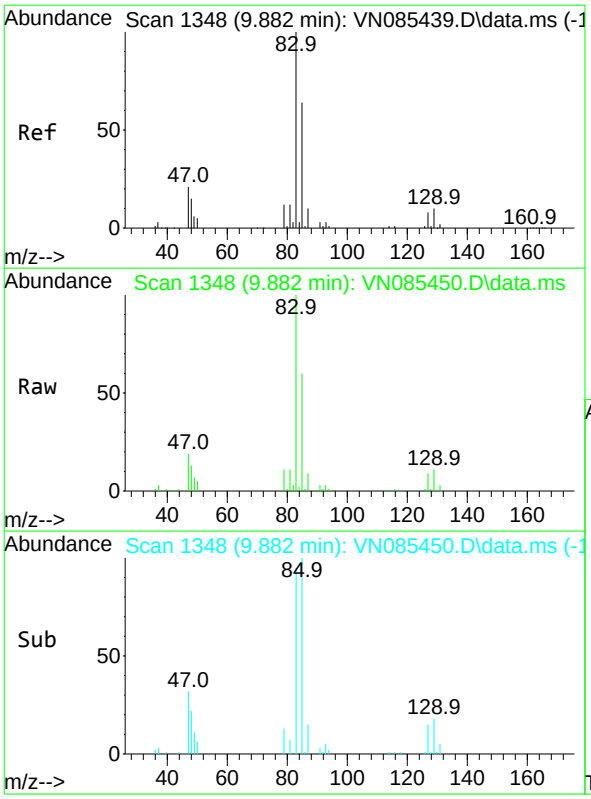


#46
Dibromomethane
Concen: 18.531 ug/l
RT: 9.706 min Scan# 1318
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 93 Resp: 34976

Ion	Ratio	Lower	Upper
93	100		
95	80.9	64.7	97.1
174	88.6	69.0	103.4

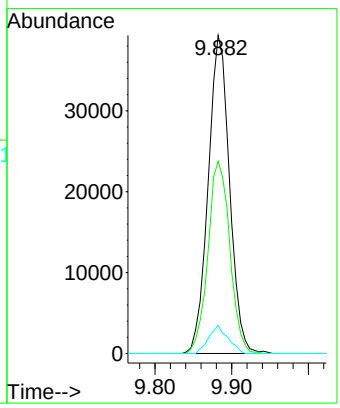




#47
Bromodichloromethane
Concen: 19.759 ug/l
RT: 9.882 min Scan# 13
Delta R.T. 0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 83 Resp: 75979

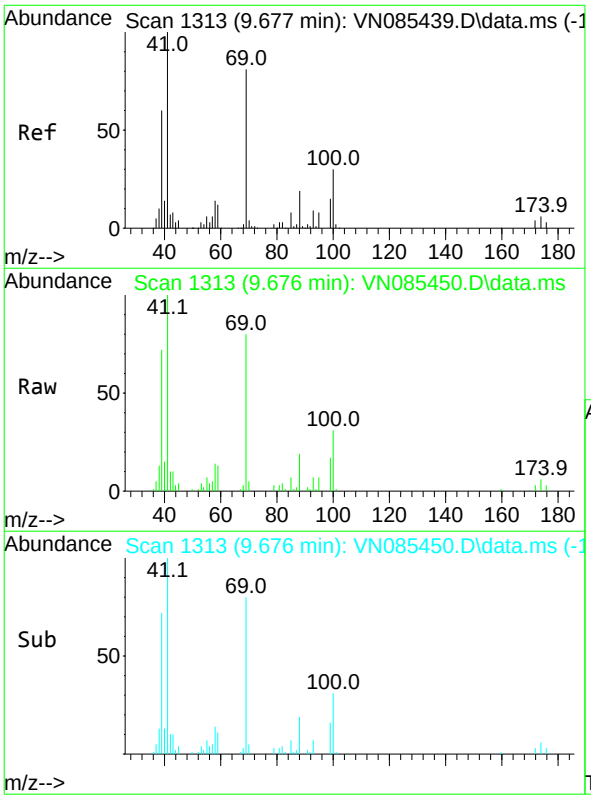
Ion	Ratio	Lower	Upper
83	100		
85	60.4	51.2	76.8
127	8.8	6.5	9.7



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Manual Integrations
APPROVED

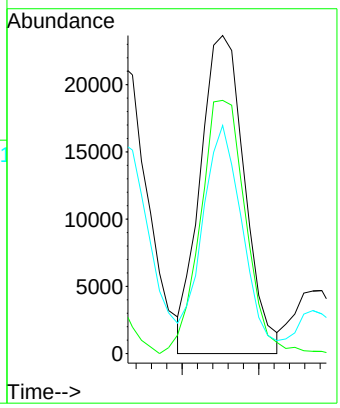
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

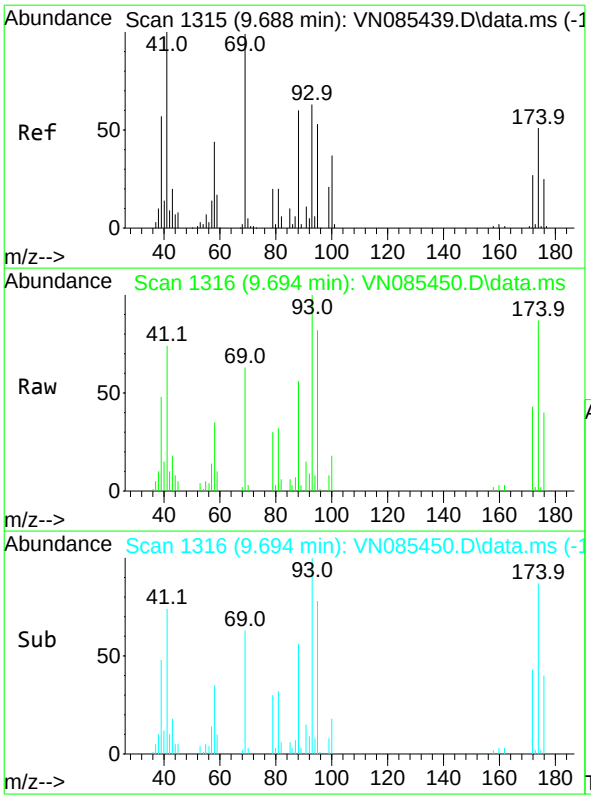


#48
Methyl methacrylate
Concen: 19.143 ug/l
RT: 9.676 min Scan# 1313
Delta R.T. -0.001 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 41 Resp: 47488

Ion	Ratio	Lower	Upper
41	100		
69	81.2	64.7	97.1
39	65.3	49.0	73.6

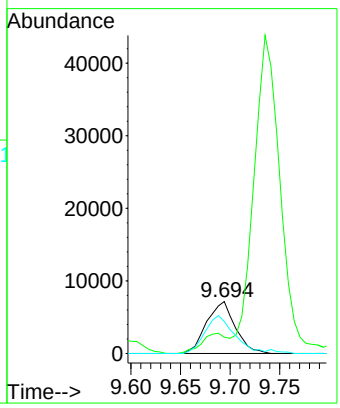




#49
1,4-Dioxane
Concen: 343.615 ug/l
RT: 9.694 min Scan# 13
Delta R.T. 0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 88 Resp: 14354

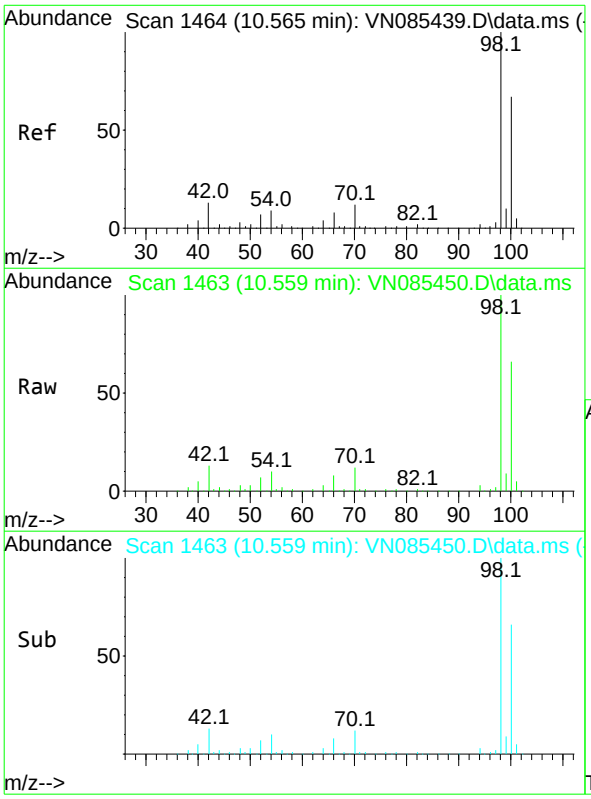
Ion	Ratio	Lower	Upper
88	100		
43	36.4	26.6	39.8
58	77.8	59.5	89.3



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Manual Integrations
APPROVED

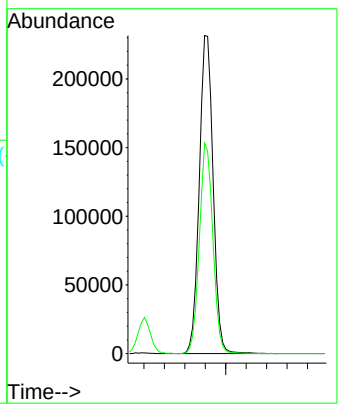
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

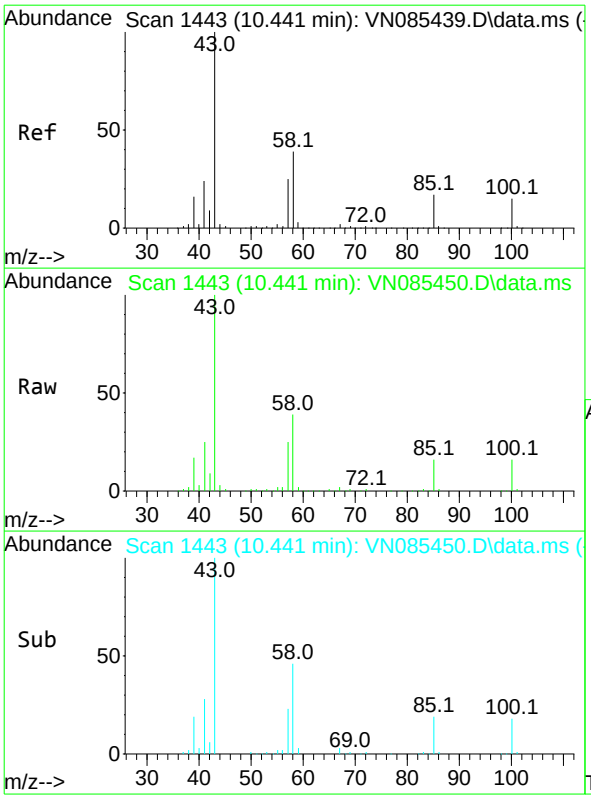


#50
Toluene-d8
Concen: 50.376 ug/l
RT: 10.559 min Scan# 1463
Delta R.T. -0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 98 Resp: 434650

Ion	Ratio	Lower	Upper
98	100		
100	64.6	52.2	78.4

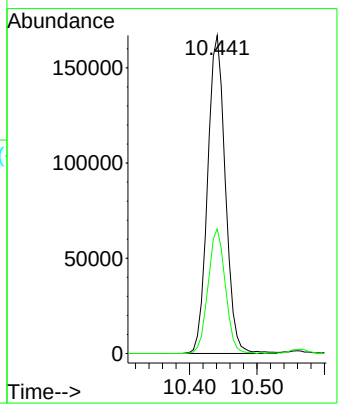




#51
4-Methyl-2-Pentanone
Concen: 95.328 ug/l
RT: 10.441 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 43 Resp: 304924

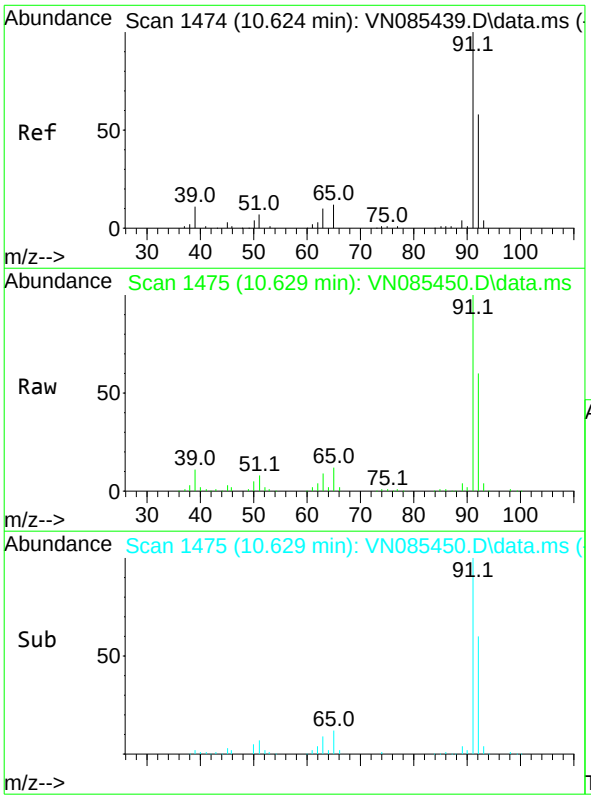
Ion	Ratio	Lower	Upper
43	100		
58	38.1	30.5	45.7



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Manual Integrations APPROVED

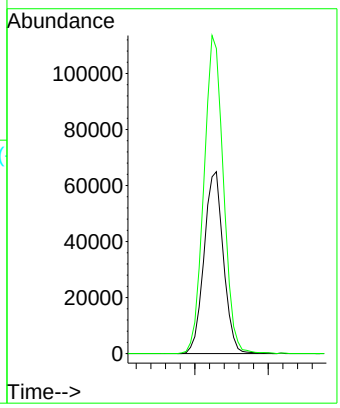
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

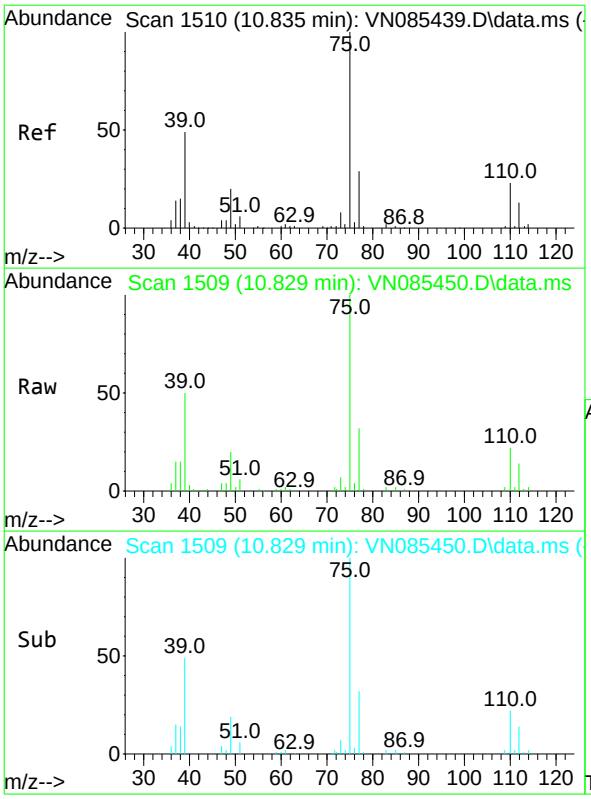


#52
Toluene
Concen: 20.053 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.005 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 92 Resp: 118985

Ion	Ratio	Lower	Upper
92	100		
91	176.2	139.2	208.8

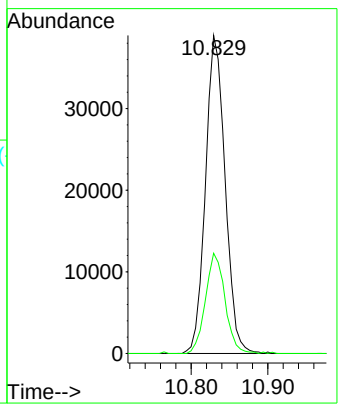




#53
t-1,3-Dichloropropene
Concen: 19.044 ug/l
RT: 10.829 min Scan# 15
Delta R.T. -0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 75 Resp: 69201

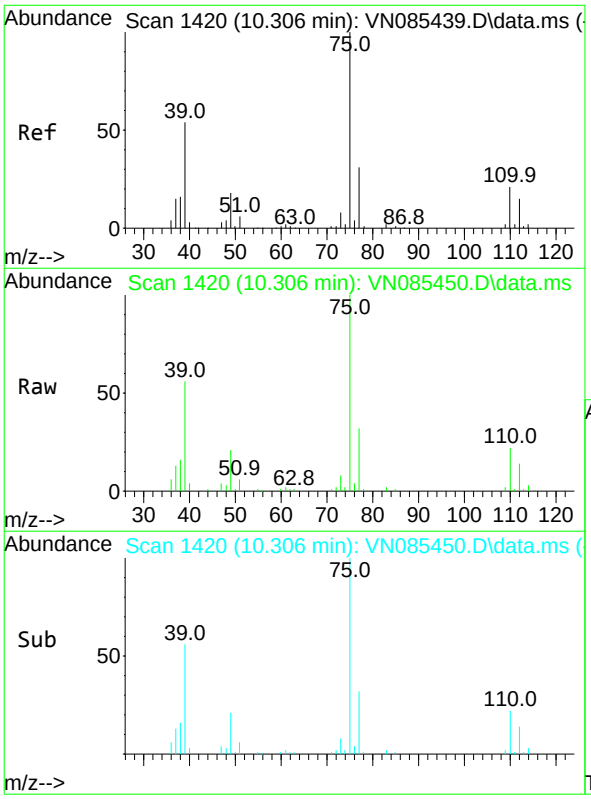
Ion	Ratio	Lower	Upper
75	100		
77	31.5	23.5	35.3



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Manual Integrations APPROVED

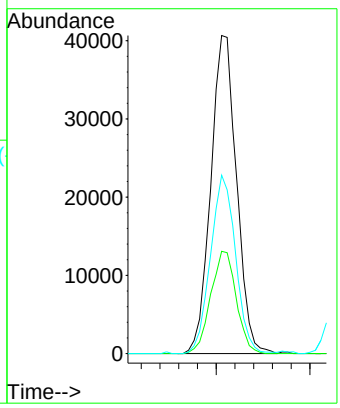
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

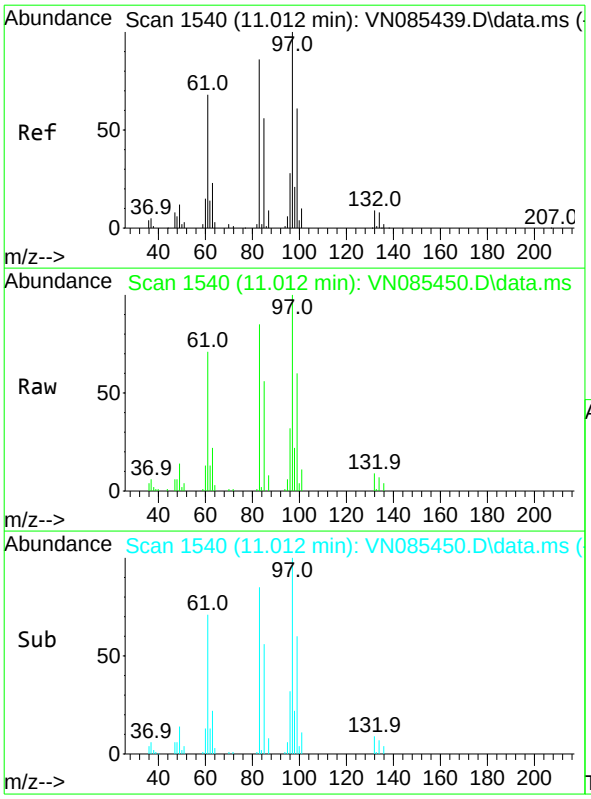


#54
cis-1,3-Dichloropropene
Concen: 19.958 ug/l
RT: 10.306 min Scan# 1420
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 75 Resp: 77467

Ion	Ratio	Lower	Upper
75	100		
77	32.2	25.0	37.4
39	56.1	43.1	64.7

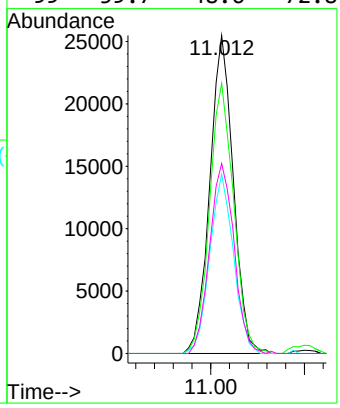




#55
1,1,2-Trichloroethane
Concen: 18.906 ug/l
RT: 11.012 min Scan# 15
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 97 Resp: 44394

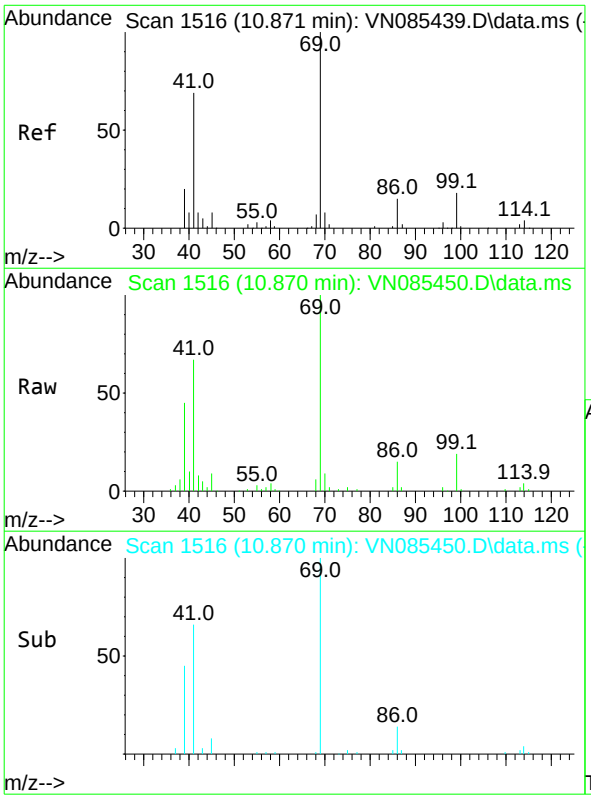
Ion	Ratio	Lower	Upper
97	100		
83	84.9	69.0	103.6
85	56.3	44.6	66.8
99	59.7	48.6	72.8



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Manual Integrations
APPROVED

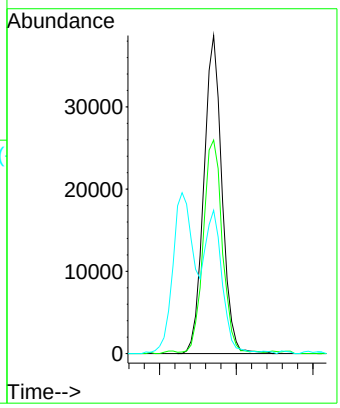
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

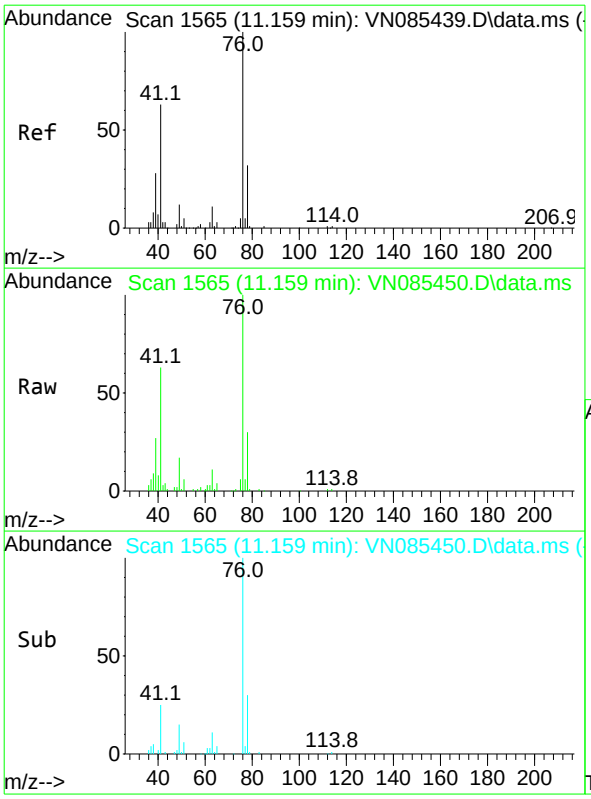


#56
Ethyl methacrylate
Concen: 17.379 ug/l
RT: 10.870 min Scan# 1516
Delta R.T. -0.001 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 69 Resp: 63560

Ion	Ratio	Lower	Upper
69	100		
41	69.4	54.6	82.0
39	41.4	32.4	48.6

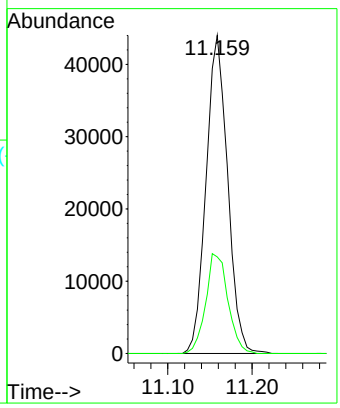




#57
1,3-Dichloropropane
Concen: 19.136 ug/l
RT: 11.159 min Scan# 15
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 76 Resp: 78133

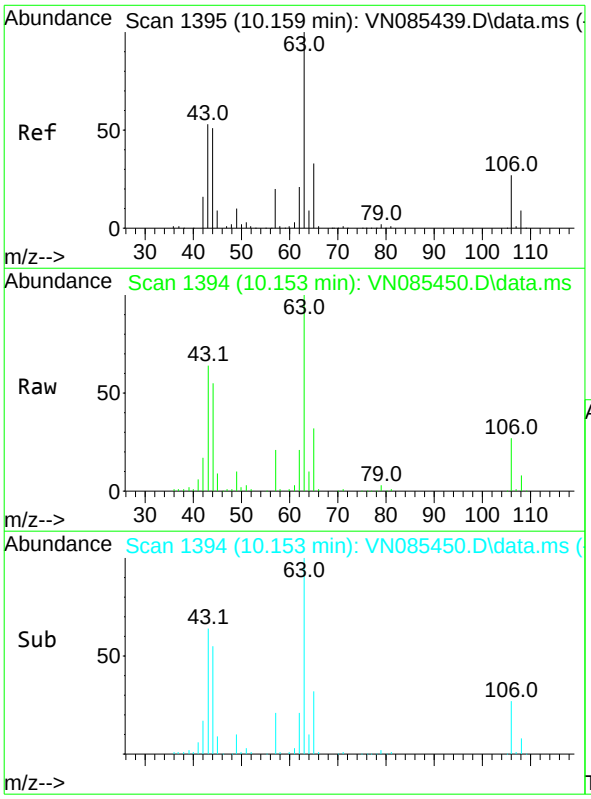
Ion	Ratio	Lower	Upper
76	100		
78	32.3	25.6	38.4



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Manual Integrations APPROVED

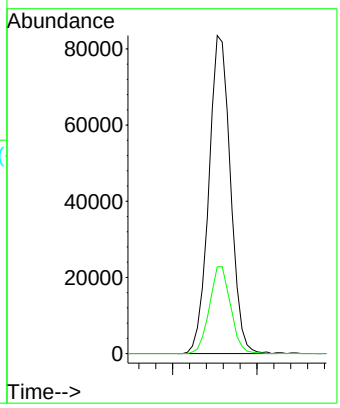
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

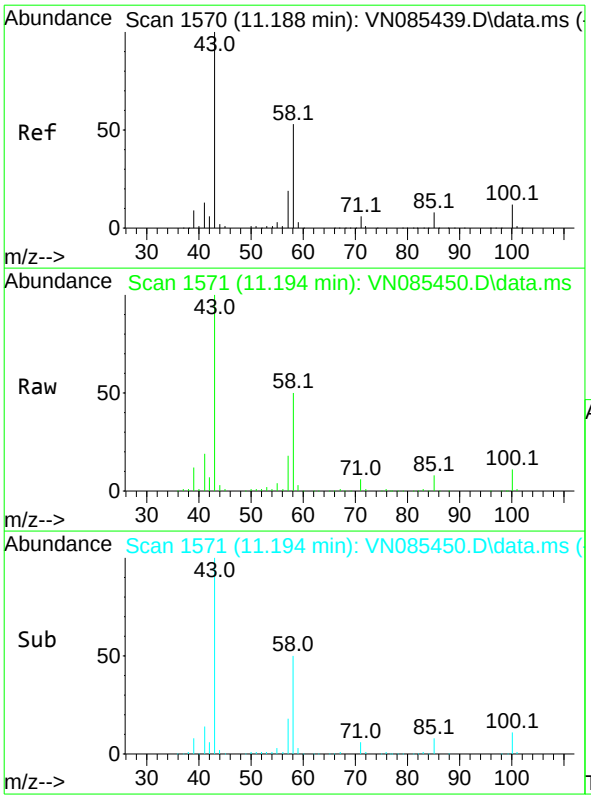


#58
2-Chloroethyl Vinyl ether
Concen: 99.810 ug/l
RT: 10.153 min Scan# 1394
Delta R.T. -0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 63 Resp: 148732

Ion	Ratio	Lower	Upper
63	100		
106	26.7	21.6	32.4

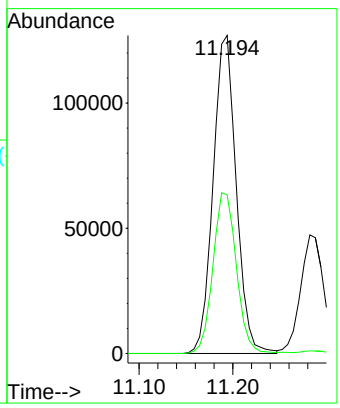




#59
2-Hexanone
Concen: 96.472 ug/l
RT: 11.194 min Scan# 15
Delta R.T. 0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 43 Resp: 217128

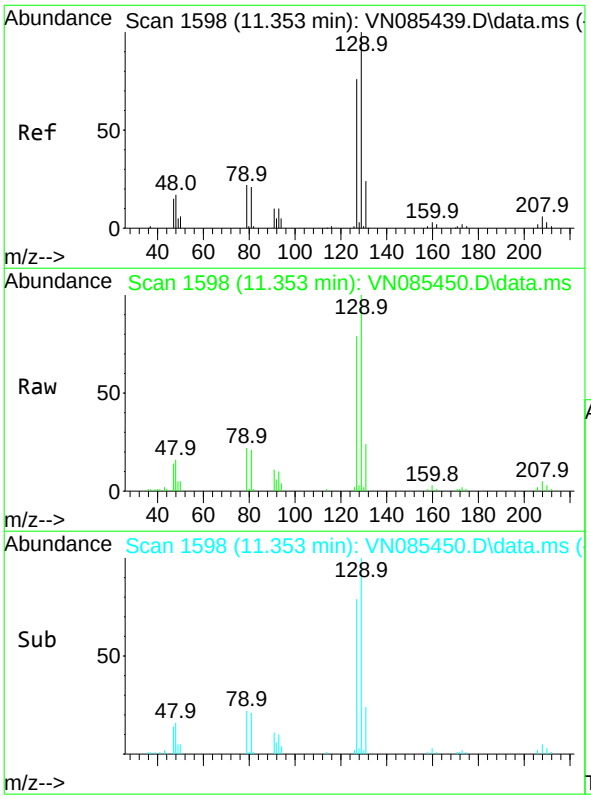
Ion	Ratio	Lower	Upper
43	100		
58	51.2	26.2	78.6



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Manual Integrations
APPROVED

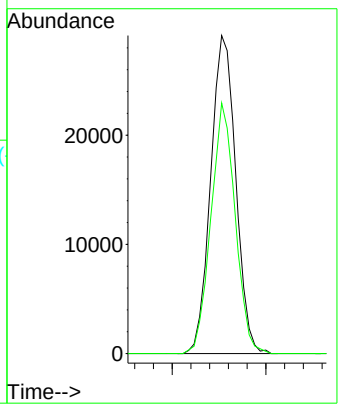
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

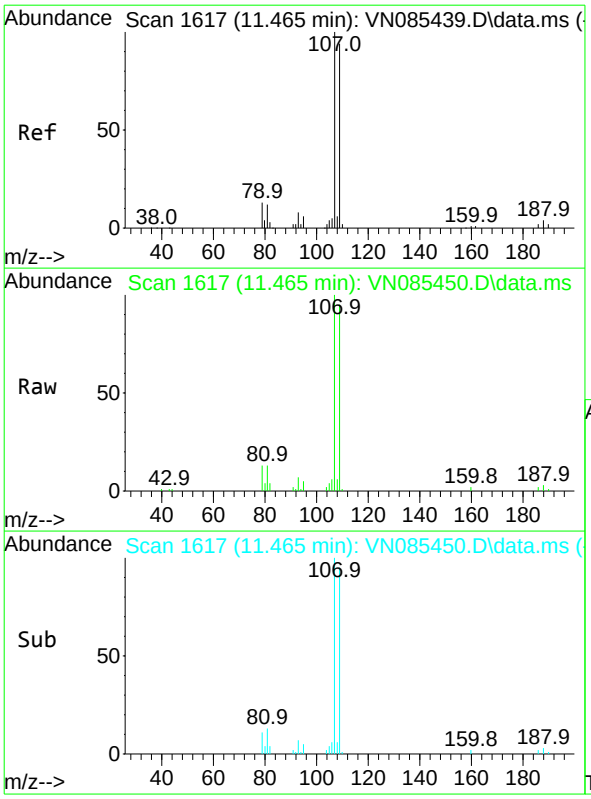


#60
Dibromochloromethane
Concen: 19.097 ug/l
RT: 11.353 min Scan# 1598
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion:129 Resp: 54139

Ion	Ratio	Lower	Upper
129	100		
127	76.2	38.6	115.8

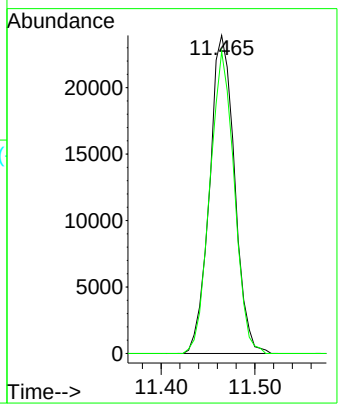




#61
1,2-Dibromoethane
Concen: 18.932 ug/l
RT: 11.465 min Scan# 16
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion:107 Resp: 44253

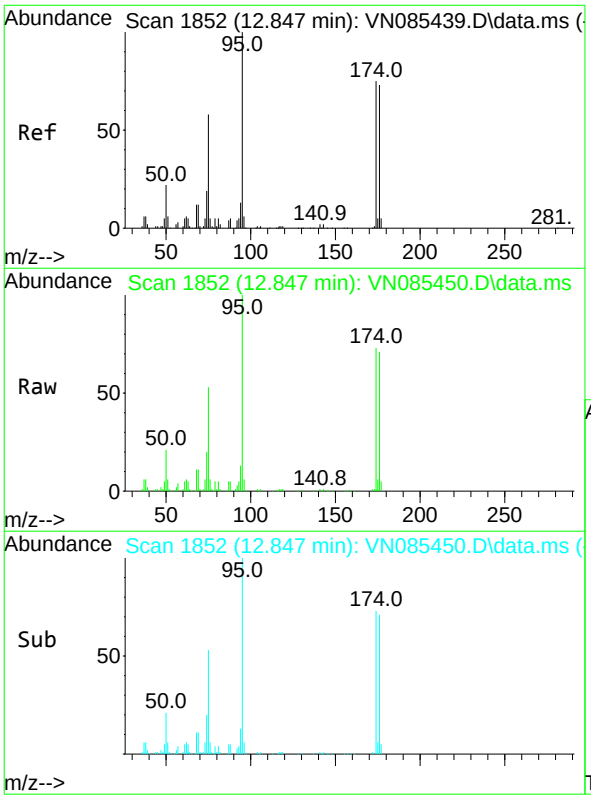
Ion	Ratio	Lower	Upper
107	100		
109	92.6	75.9	113.9



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Manual Integrations
APPROVED

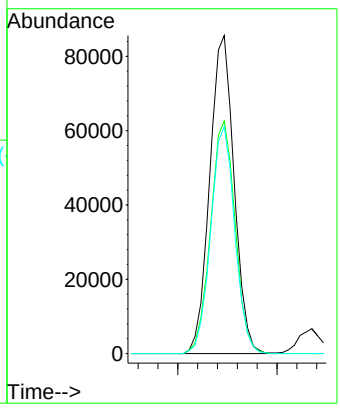
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

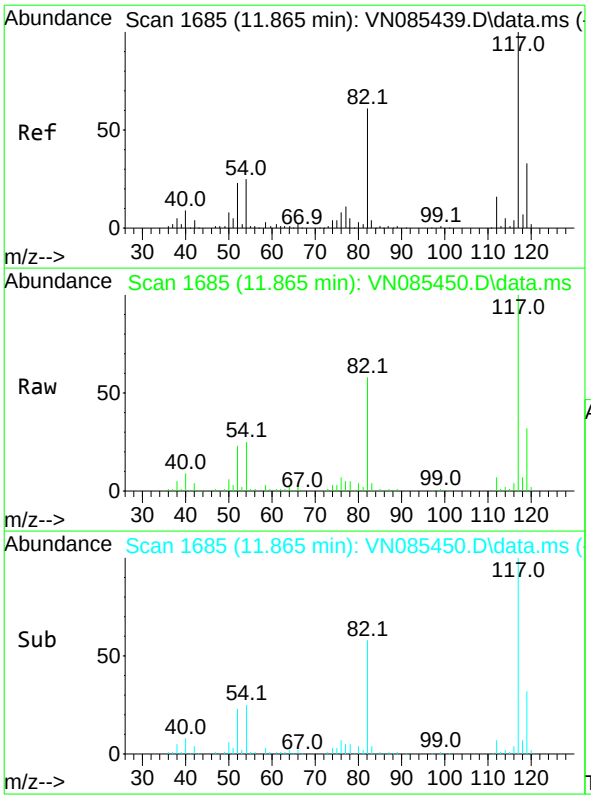


#62
4-Bromofluorobenzene
Concen: 49.491 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 95 Resp: 146069

Ion	Ratio	Lower	Upper
95	100		
174	73.5	0.0	145.0
176	70.2	0.0	142.4

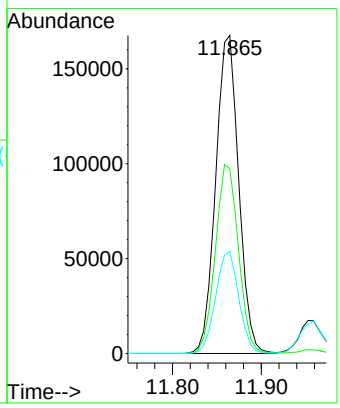




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 16
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion:117 Resp: 301633

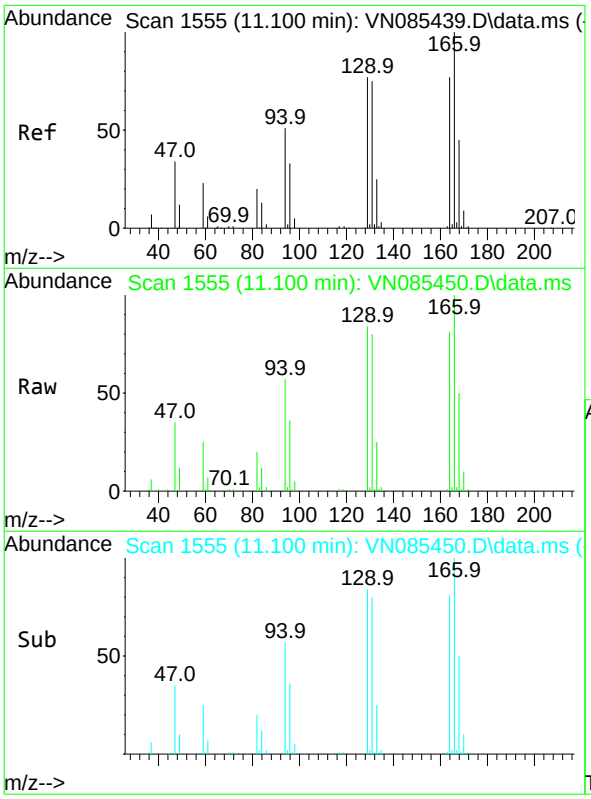
Ion	Ratio	Lower	Upper
117	100		
82	58.1	48.6	72.8
119	32.1	26.6	39.8



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Manual Integrations
APPROVED

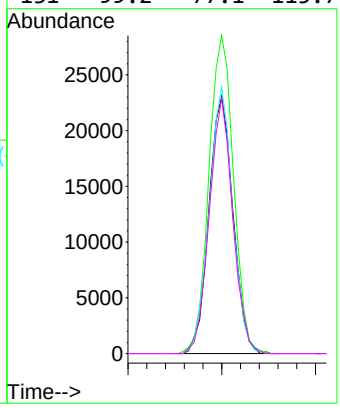
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

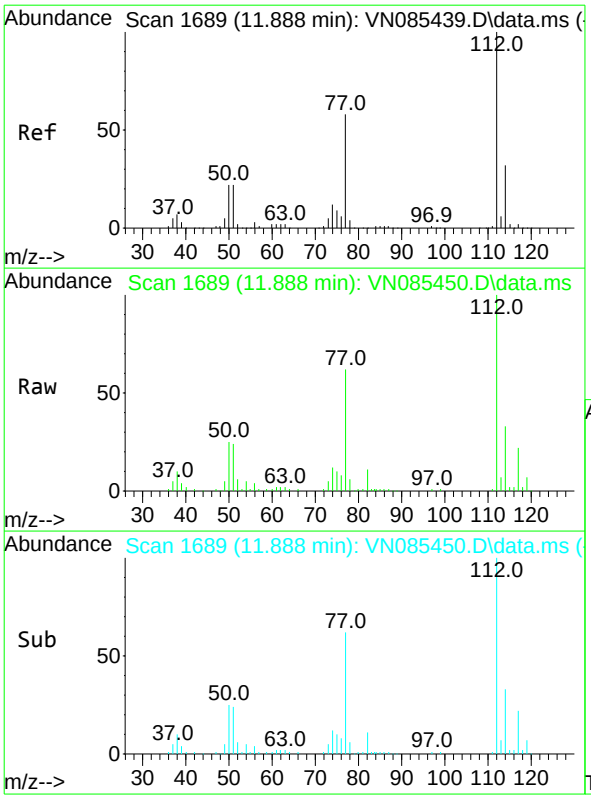


#64
Tetrachloroethene
Concen: 20.068 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion:164 Resp: 41267

Ion	Ratio	Lower	Upper
164	100		
166	123.7	103.4	155.2
129	103.5	79.2	118.8
131	99.2	77.1	115.7

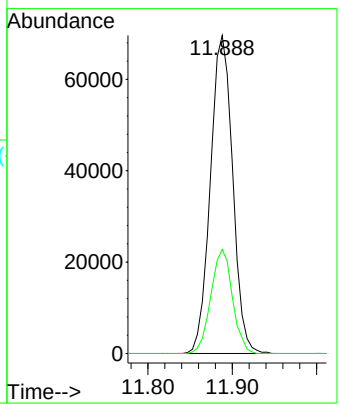




#65
Chlorobenzene
Concen: 19.304 ug/l
RT: 11.888 min Scan# 16
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion:112 Resp: 127557

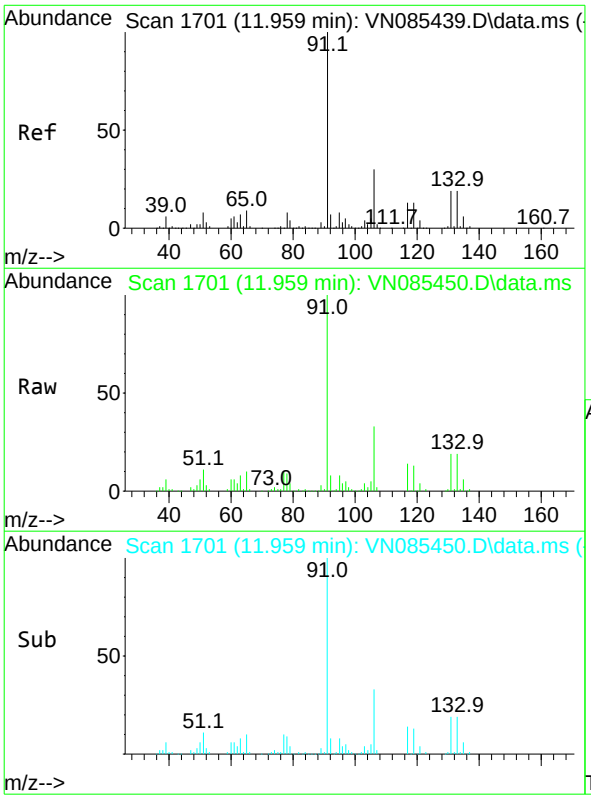
Ion	Ratio	Lower	Upper
112	100		
114	32.7	25.3	37.9



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Manual Integrations APPROVED

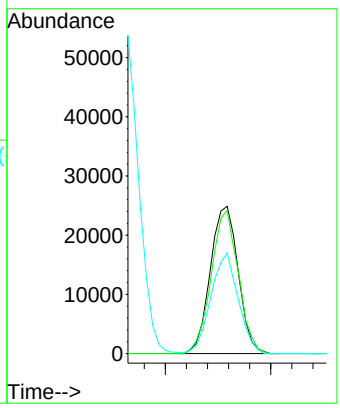
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

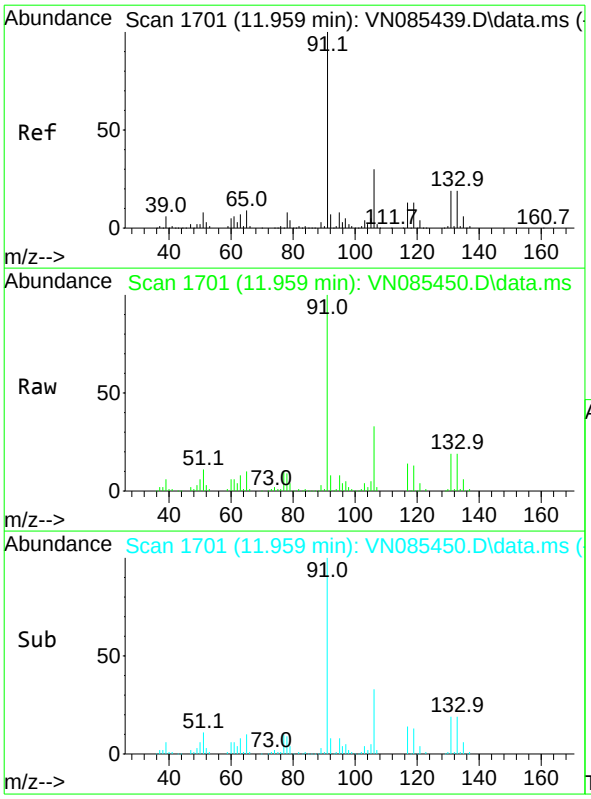


#66
1,1,1,2-Tetrachloroethane
Concen: 18.821 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion:131 Resp: 45645

Ion	Ratio	Lower	Upper
131	100		
133	94.9	47.4	142.3
119	66.9	33.1	99.5

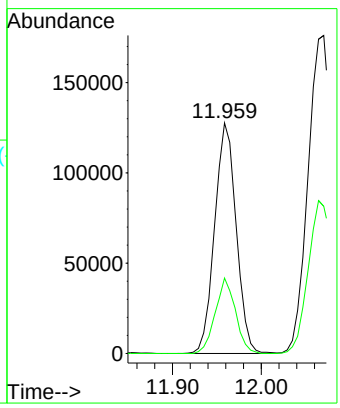




#67
Ethyl Benzene
Concen: 20.019 ug/l
RT: 11.959 min Scan# 17
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 91 Resp: 215448

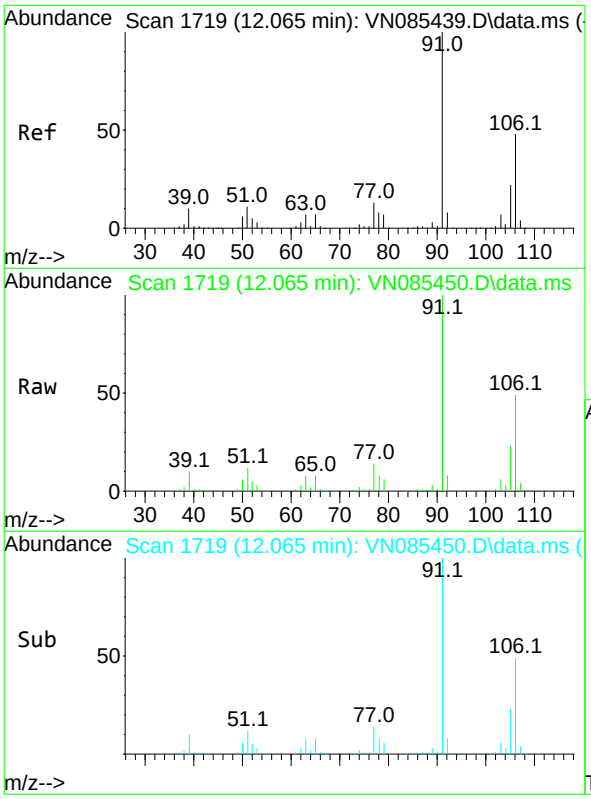
Ion	Ratio	Lower	Upper
91	100		
106	32.7	23.8	35.8



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Manual Integrations APPROVED

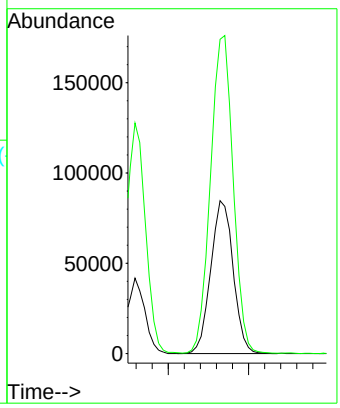
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

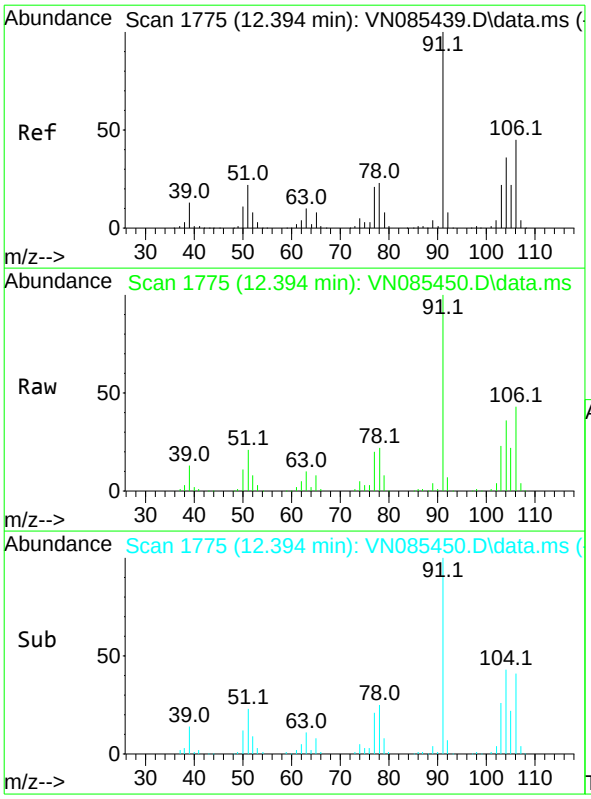


#68
m/p-Xylenes
Concen: 41.314 ug/l
RT: 12.065 min Scan# 1719
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion:106 Resp: 164329

Ion	Ratio	Lower	Upper
106	100		
91	209.5	167.7	251.5

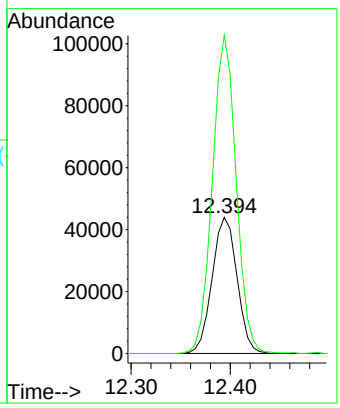




#69
o-Xylene
Concen: 20.184 ug/l
RT: 12.394 min Scan# 17
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion:106 Resp: 76723

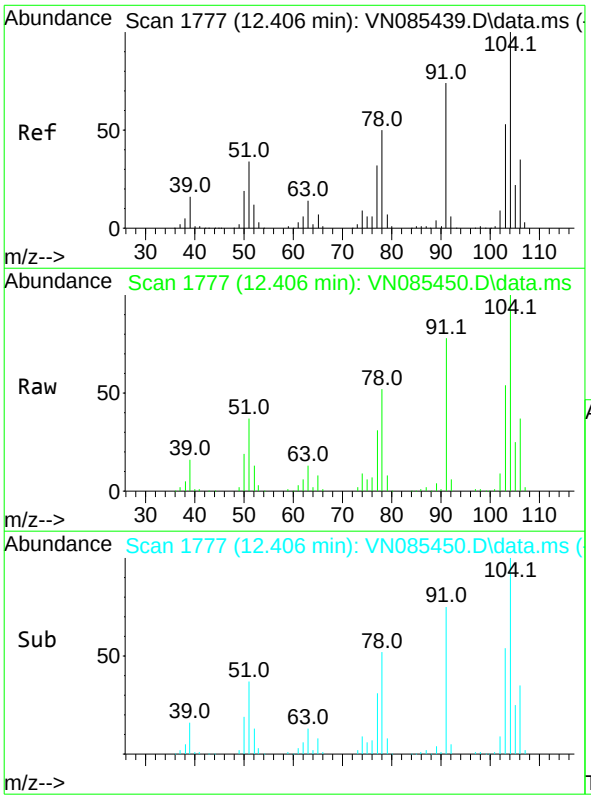
Ion	Ratio	Lower	Upper
106	100		
91	223.5	110.4	331.2



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Manual Integrations APPROVED

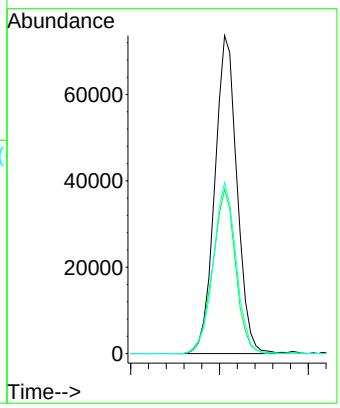
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

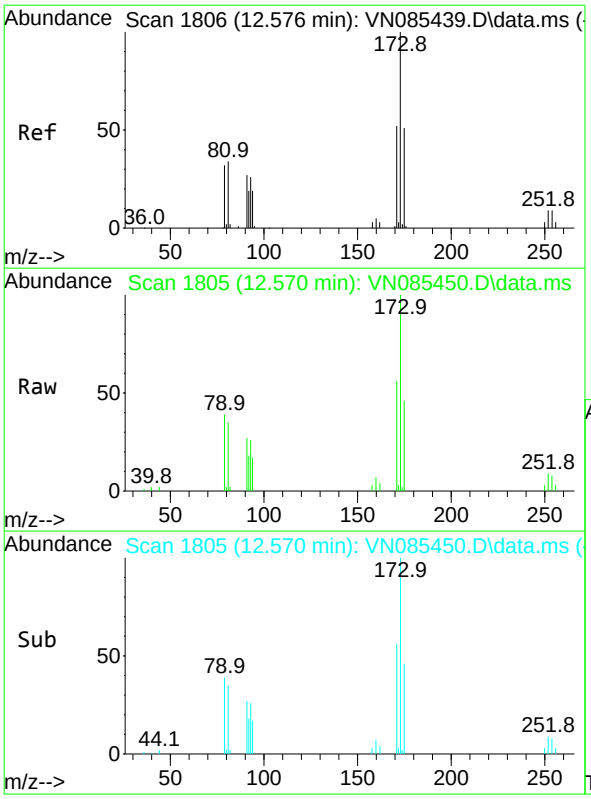


#70
Styrene
Concen: 20.358 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion:104 Resp: 128074

Ion	Ratio	Lower	Upper
104	100		
78	53.2	42.5	63.7
103	55.3	43.8	65.8

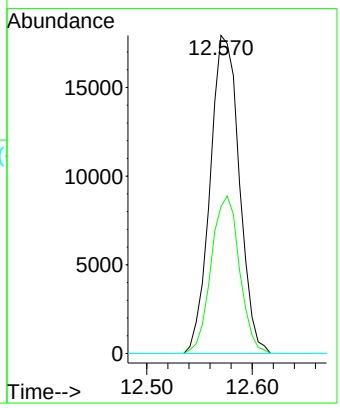




#71
Bromoform
Concen: 19.837 ug/l
RT: 12.570 min Scan# 18
Delta R.T. -0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion:173 Resp: 34422

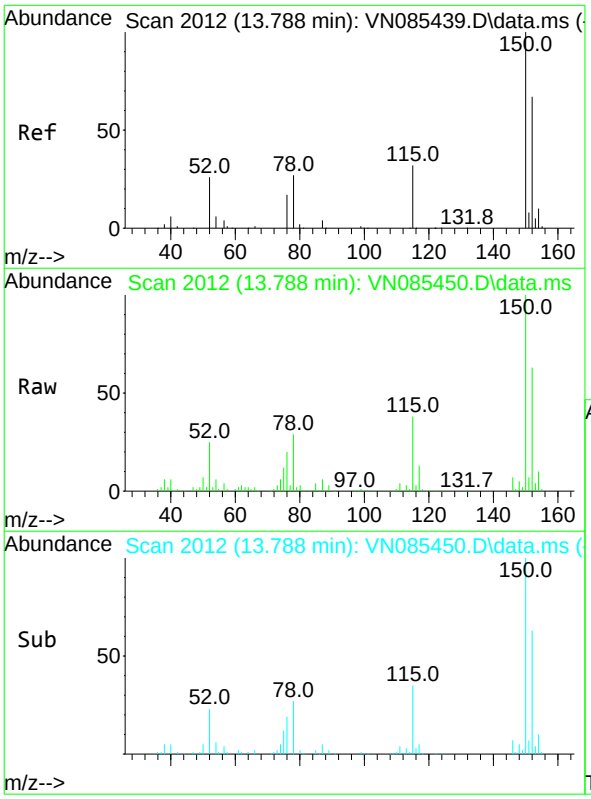
Ion	Ratio	Lower	Upper
173	100		
175	48.1	24.4	73.2
254	0.0	0.0	0.0



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Manual Integrations APPROVED

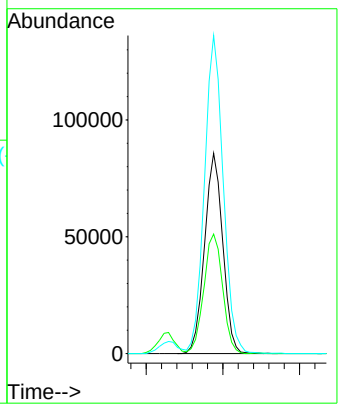
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

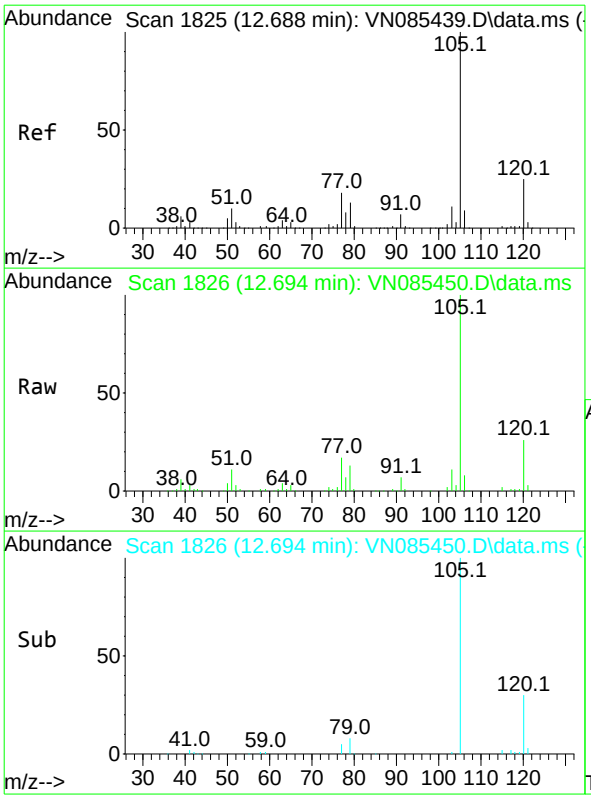


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion:152 Resp: 141189

Ion	Ratio	Lower	Upper
152	100		
115	61.5	31.1	93.3
150	163.3	0.0	343.6

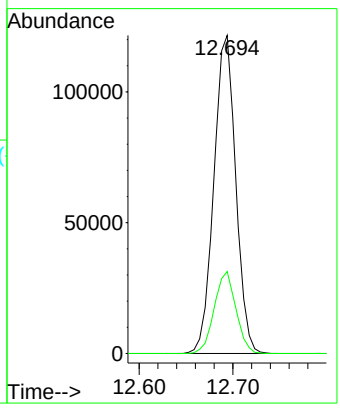




#73
Isopropylbenzene
Concen: 20.668 ug/l
RT: 12.694 min Scan# 18
Delta R.T. 0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion:105 Resp: 196948

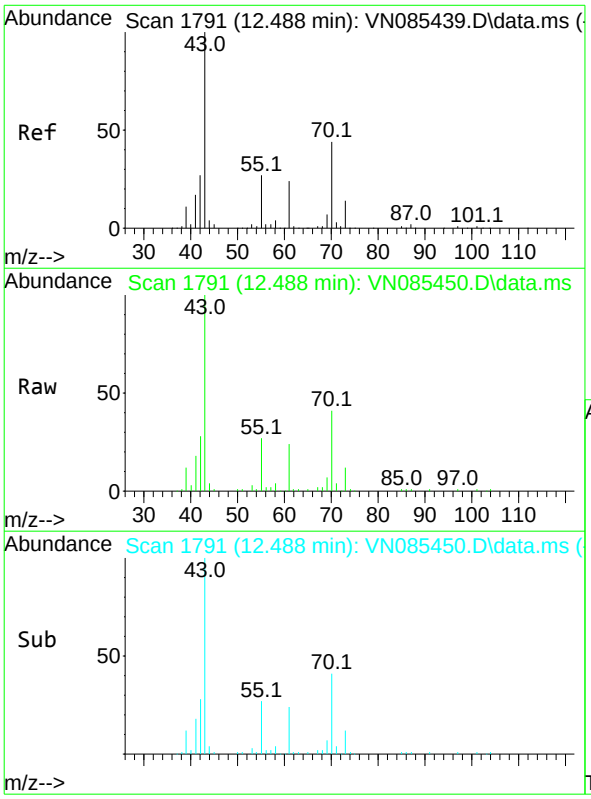
Ion	Ratio	Lower	Upper
105	100		
120	25.5	12.8	38.3



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Manual Integrations
APPROVED

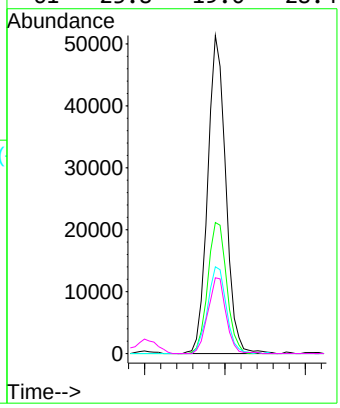
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

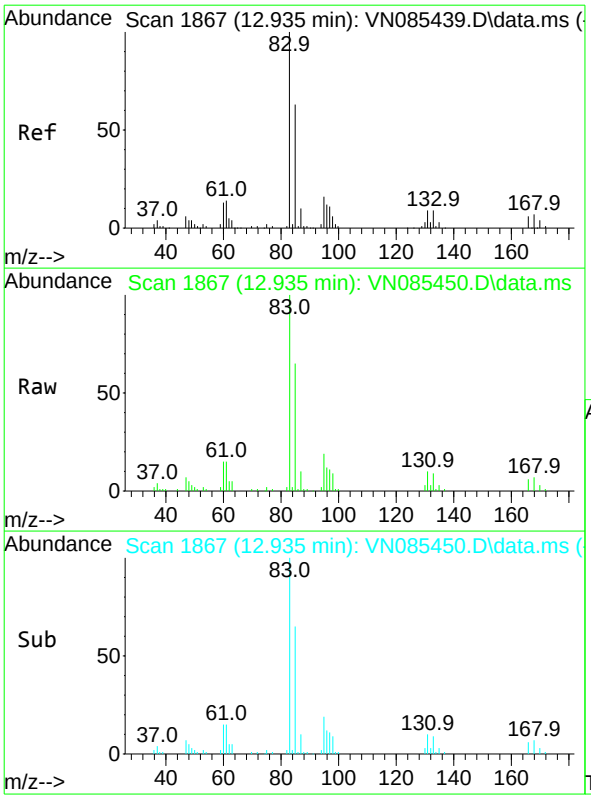


#74
N-amyl acetate
Concen: 18.746 ug/l
RT: 12.488 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 43 Resp: 80290

Ion	Ratio	Lower	Upper
43	100		
70	43.0	34.0	51.0
55	28.2	21.4	32.2
61	23.8	19.0	28.4

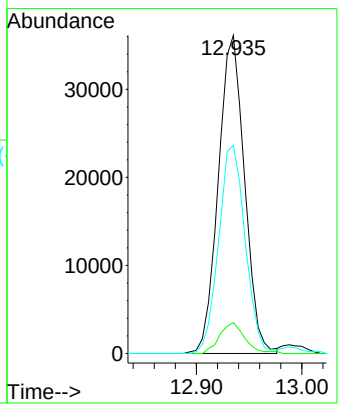




#75
1,1,2,2-Tetrachloroethane
Concen: 18.510 ug/l
RT: 12.935 min Scan# 18
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 83 Resp: 62306

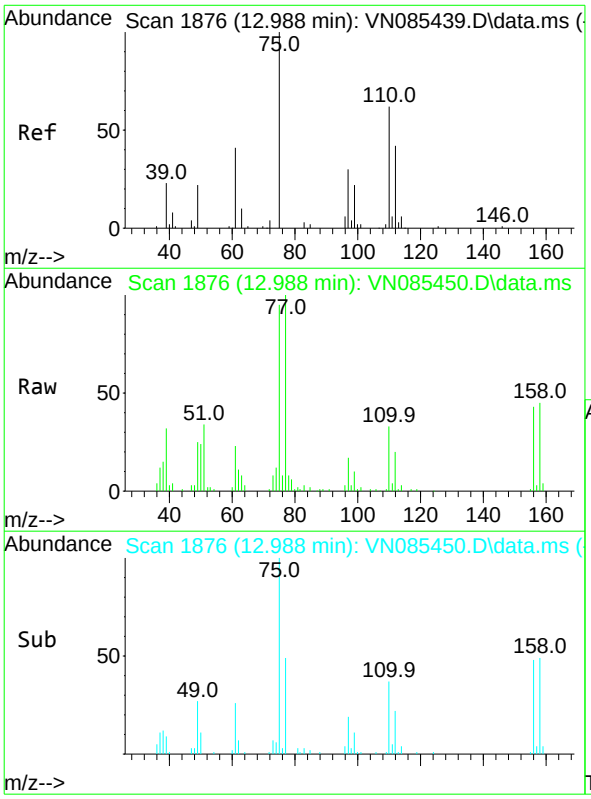
Ion	Ratio	Lower	Upper
83	100		
131	9.4	4.8	14.4
85	66.2	32.2	96.6



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Manual Integrations APPROVED

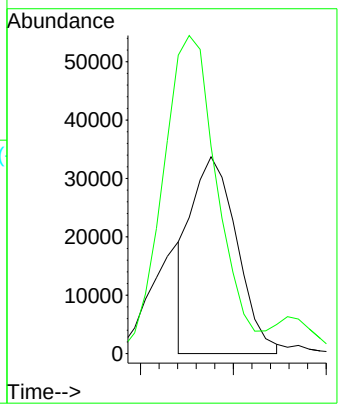
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

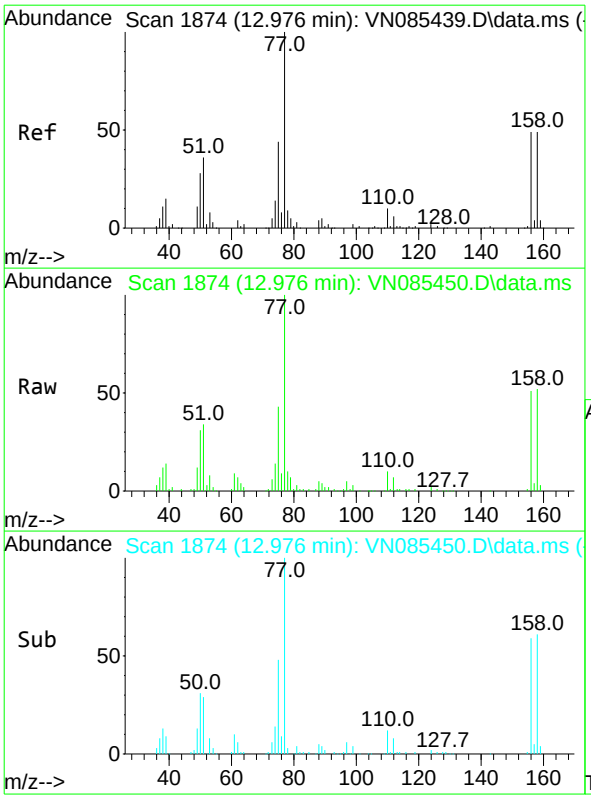


#76
1,2,3-Trichloropropane
Concen: 20.099 ug/l m
RT: 12.988 min Scan# 1876
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 75 Resp: 57678

Ion	Ratio	Lower	Upper
75	100		
77	194.7	109.7	329.2

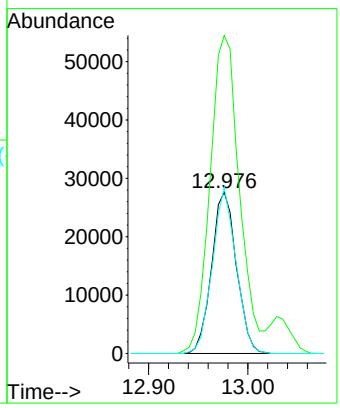




#77
Bromobenzene
Concen: 19.283 ug/l
RT: 12.976 min Scan# 18
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion:156 Resp: 48006

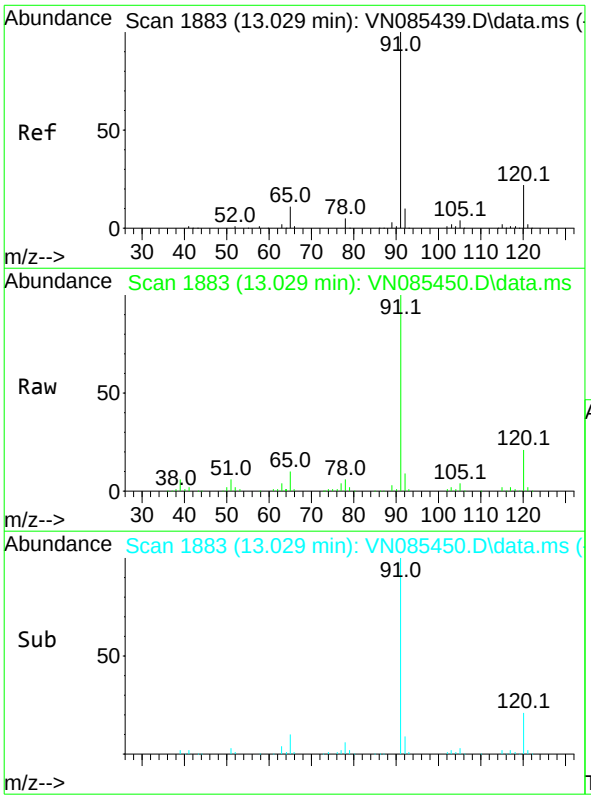
Ion	Ratio	Lower	Upper
156	100		
77	233.9	114.1	342.4
158	97.9	48.9	146.8



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Manual Integrations
APPROVED

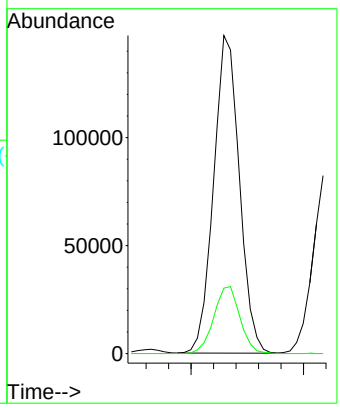
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

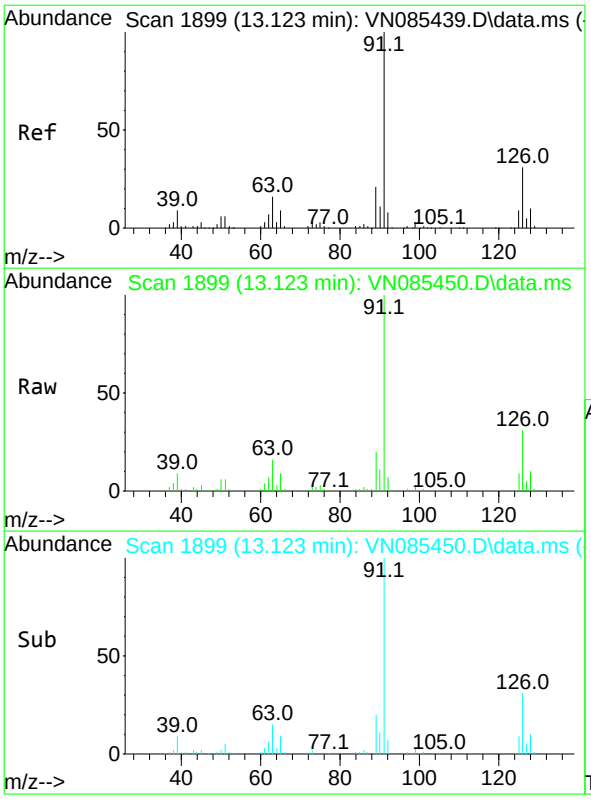


#78
n-propylbenzene
Concen: 20.759 ug/l
RT: 13.029 min Scan# 1883
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 91 Resp: 234178

Ion	Ratio	Lower	Upper
91	100		
120	21.4	10.9	32.6

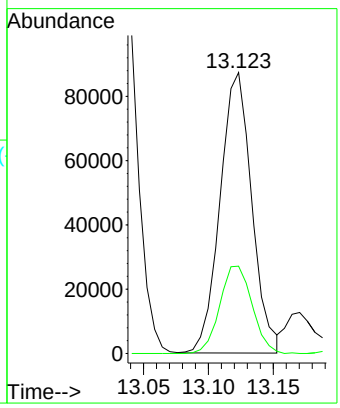




#79
2-Chlorotoluene
Concen: 20.351 ug/l
RT: 13.123 min Scan# 18
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 91 Resp: 148584

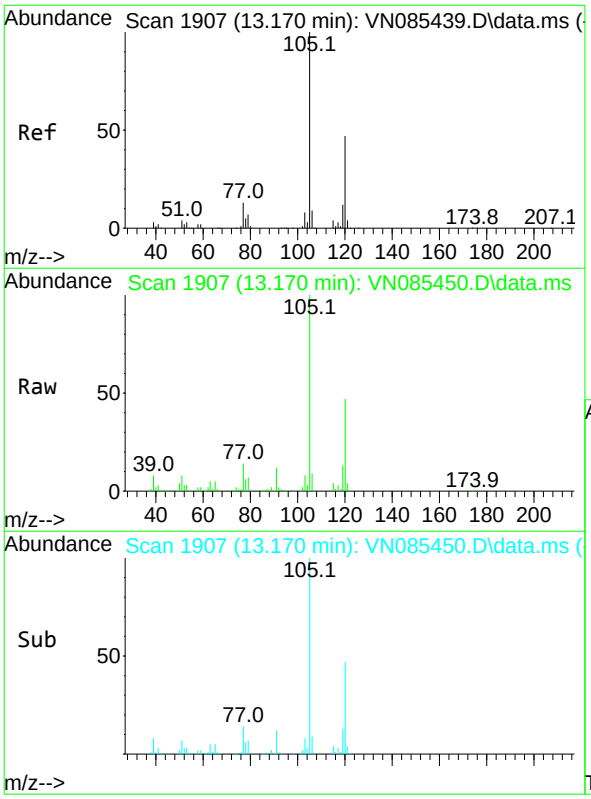
Ion	Ratio	Lower	Upper
91	100		
126	31.7	15.7	47.1



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Manual Integrations APPROVED

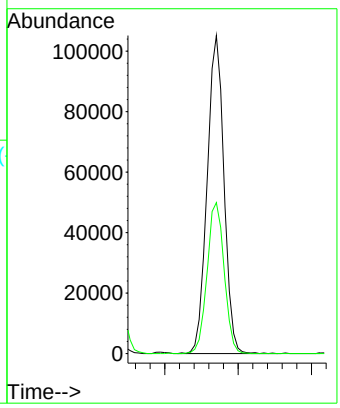
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

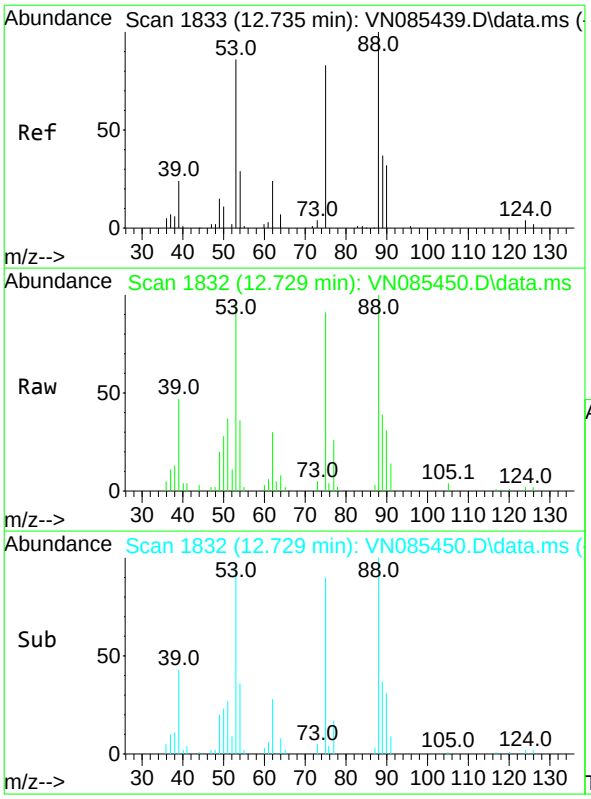


#80
1,3,5-Trimethylbenzene
Concen: 21.282 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion:105 Resp: 167516

Ion	Ratio	Lower	Upper
105	100		
120	48.1	23.9	71.7

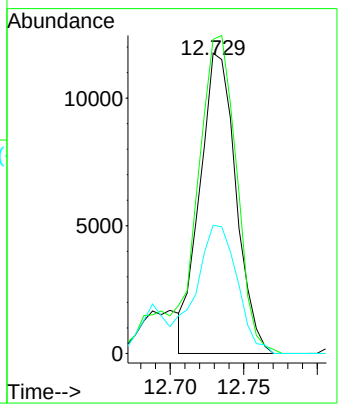




#81
trans-1,4-Dichloro-2-butene
Concen: 18.905 ug/l m
RT: 12.729 min Scan# 18
Delta R.T. -0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 75 Resp: 20052

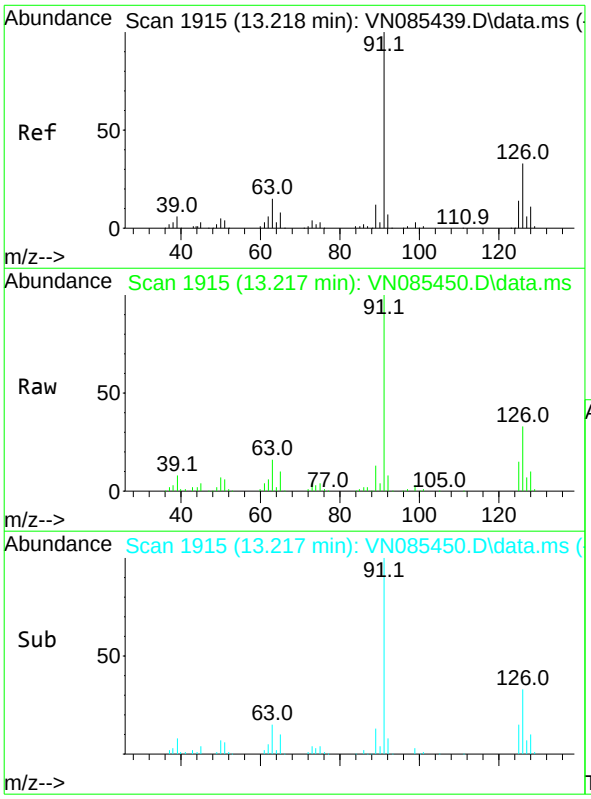
Ion	Ratio	Lower	Upper
75	100		
53	125.4	95.6	143.4
89	49.2	37.0	55.6



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Manual Integrations APPROVED

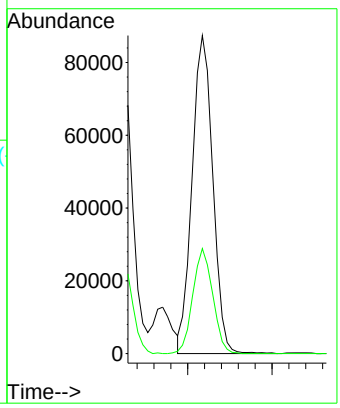
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

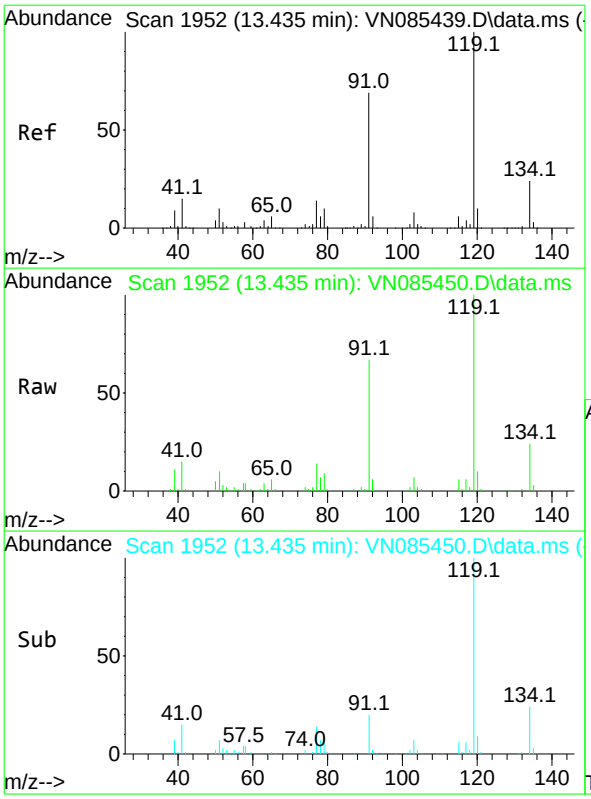


#82
4-Chlorotoluene
Concen: 20.481 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 91 Resp: 148888

Ion	Ratio	Lower	Upper
91	100		
126	31.8	15.9	47.7

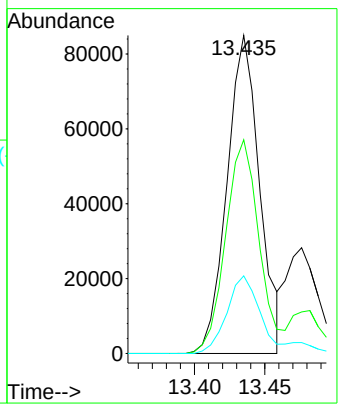




#83
tert-Butylbenzene
Concen: 20.748 ug/l
RT: 13.435 min Scan# 19
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion:119 Resp: 137144

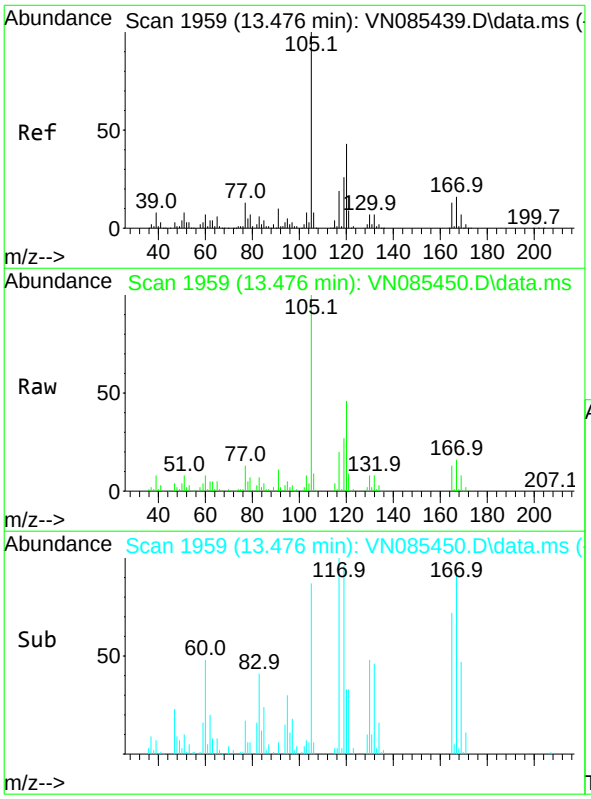
Ion	Ratio	Lower	Upper
119	100		
91	69.5	35.1	105.3
134	24.7	12.0	36.1



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Manual Integrations
APPROVED

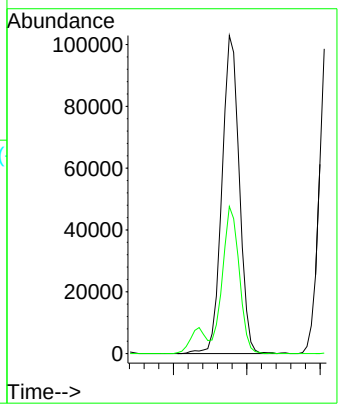
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

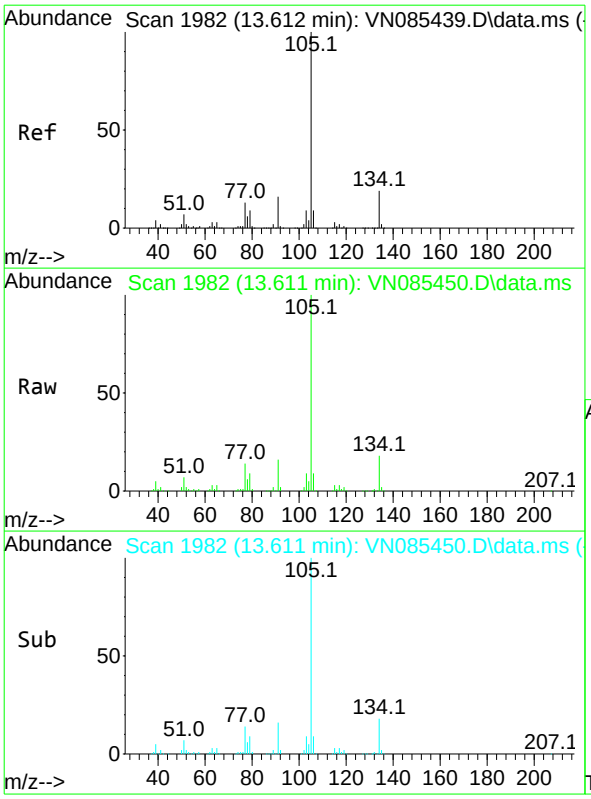


#84
1,2,4-Trimethylbenzene
Concen: 21.493 ug/l
RT: 13.476 min Scan# 1959
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion:105 Resp: 168611

Ion	Ratio	Lower	Upper
105	100		
120	45.1	21.6	65.0

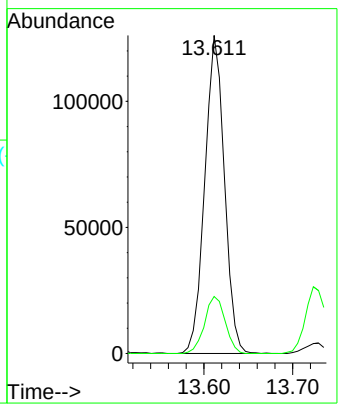




#85
sec-Butylbenzene
Concen: 21.140 ug/l
RT: 13.611 min Scan# 19
Delta R.T. -0.001 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion:105 Resp: 193667

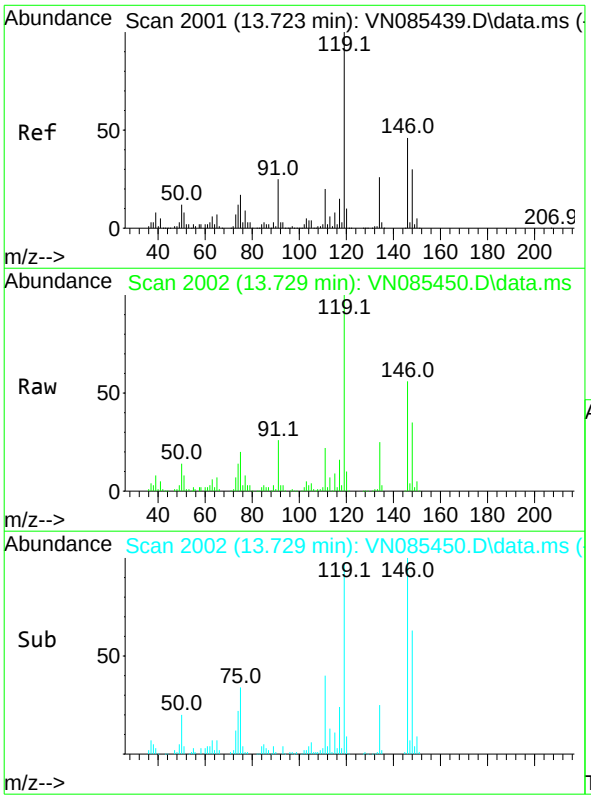
Ion	Ratio	Lower	Upper
105	100		
134	18.8	9.7	28.9



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Manual Integrations APPROVED

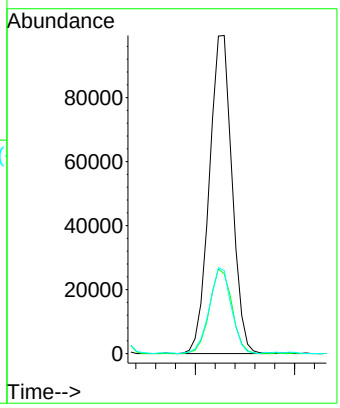
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

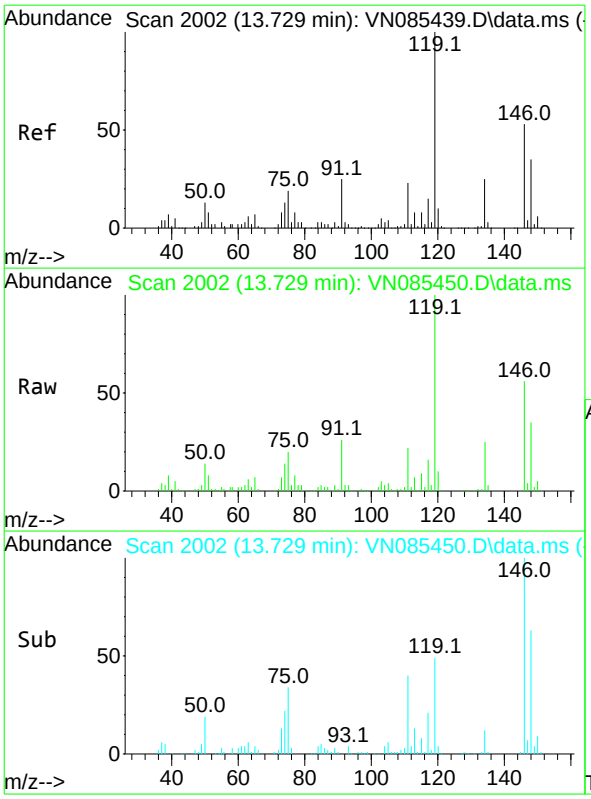


#86
p-Isopropyltoluene
Concen: 20.730 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion:119 Resp: 158593

Ion	Ratio	Lower	Upper
119	100		
134	26.1	12.7	38.0
91	26.2	12.7	38.1

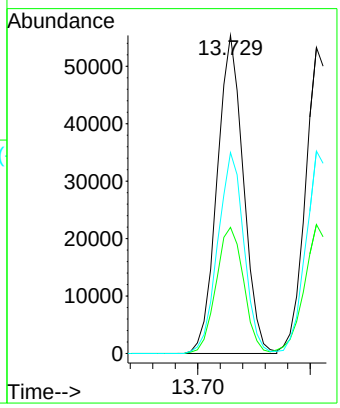




#87
1,3-Dichlorobenzene
Concen: 19.629 ug/l
RT: 13.729 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion:146 Resp: 89998

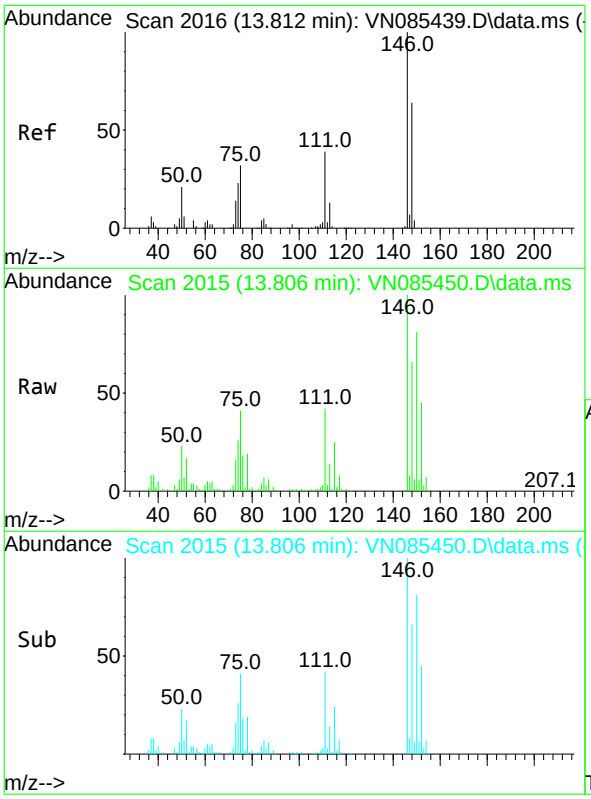
Ion	Ratio	Lower	Upper
146	100		
111	41.6	21.4	64.3
148	62.7	32.3	96.9



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Manual Integrations APPROVED

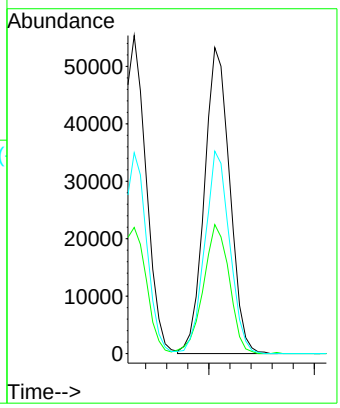
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

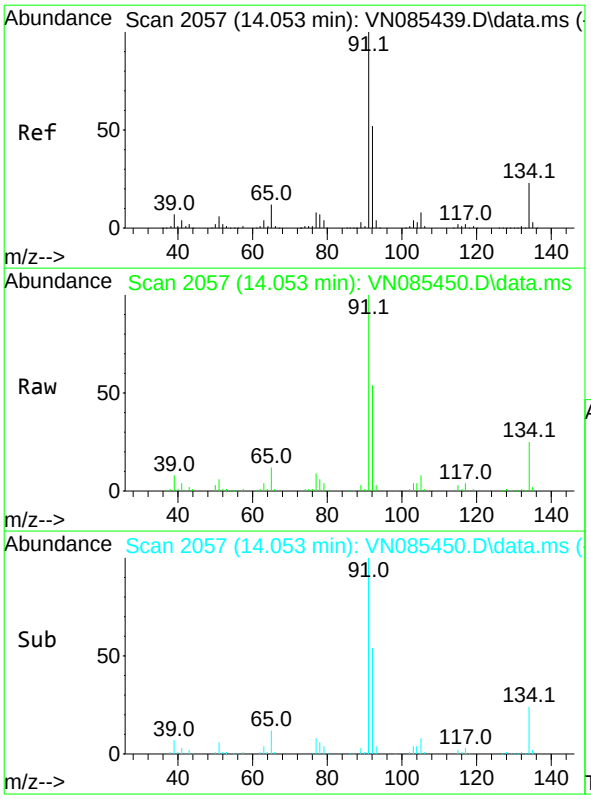


#88
1,4-Dichlorobenzene
Concen: 18.721 ug/l
RT: 13.806 min Scan# 2015
Delta R.T. -0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion:146 Resp: 88968

Ion	Ratio	Lower	Upper
146	100		
111	43.2	21.3	63.7
148	65.2	32.4	97.0

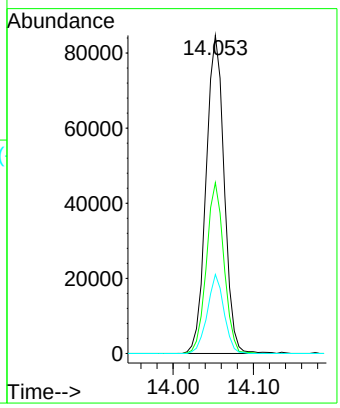




#89
n-Butylbenzene
Concen: 20.147 ug/l
RT: 14.053 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 91 Resp: 132410

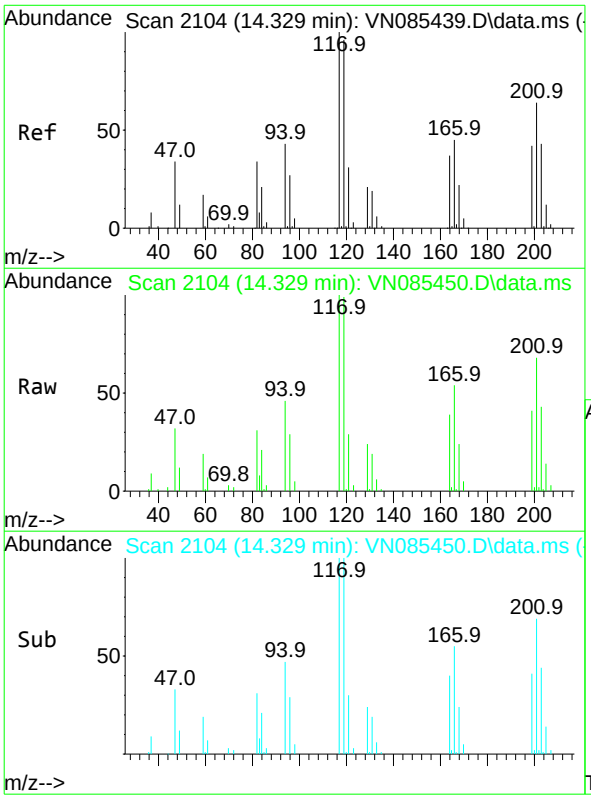
Ion	Ratio	Lower	Upper
91	100		
92	52.0	25.8	77.3
134	22.9	11.7	35.1



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Manual Integrations
APPROVED

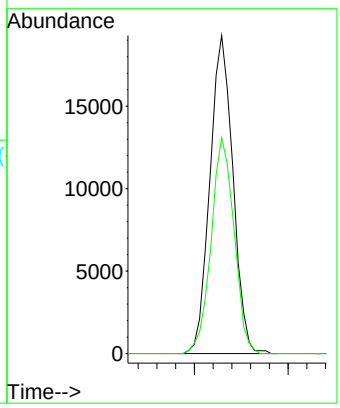
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

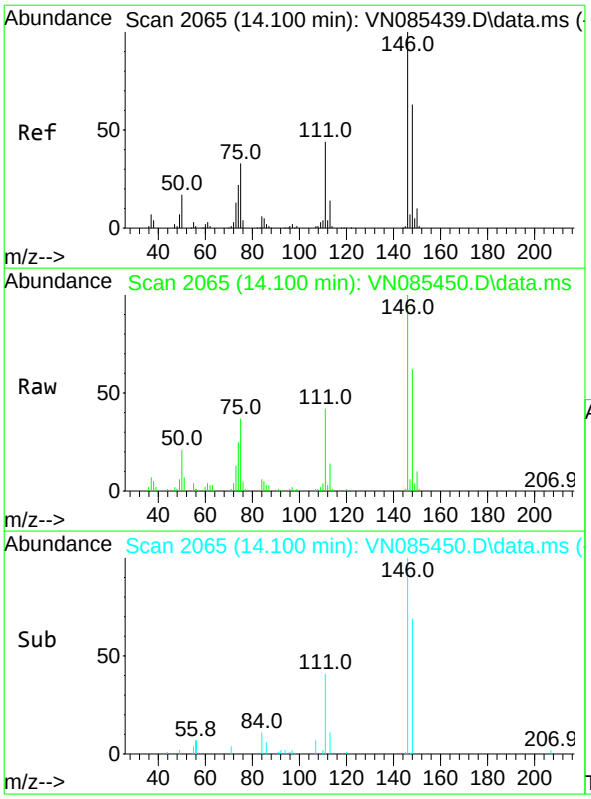


#90
Hexachloroethane
Concen: 18.850 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion:117 Resp: 32875

Ion	Ratio	Lower	Upper
117	100		
201	67.6	33.7	101.0

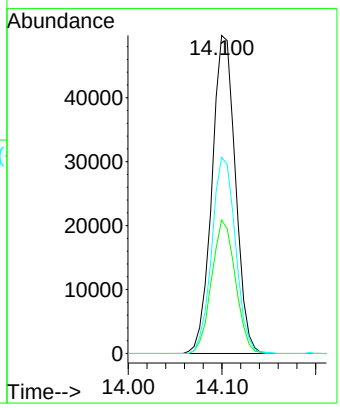




#91
1,2-Dichlorobenzene
Concen: 18.933 ug/l
RT: 14.100 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion:146 Resp: 86586

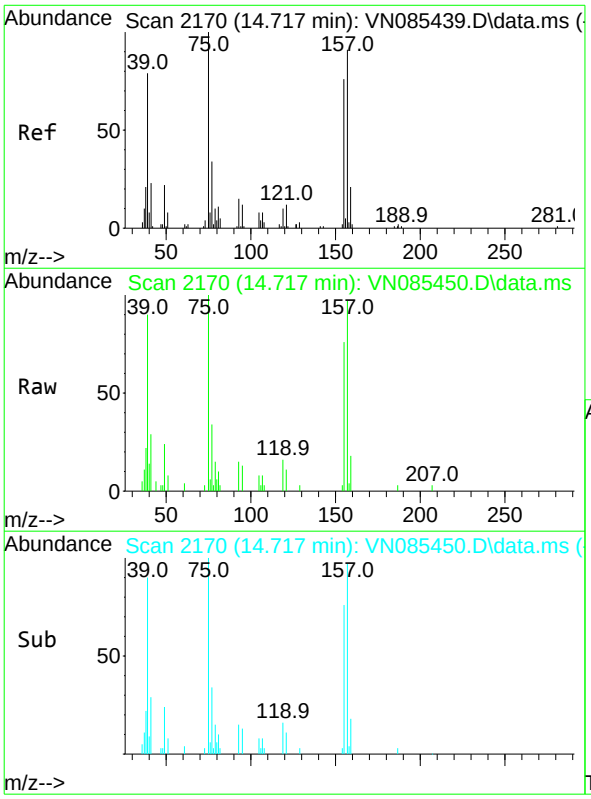
Ion	Ratio	Lower	Upper
146	100		
111	42.4	21.7	65.1
148	62.3	31.4	94.2



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Manual Integrations APPROVED

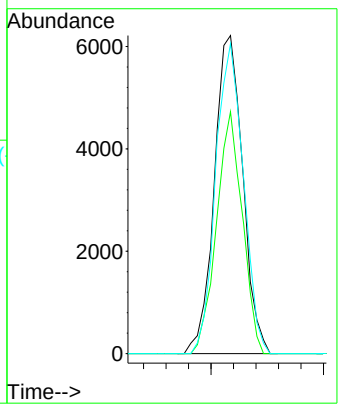
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

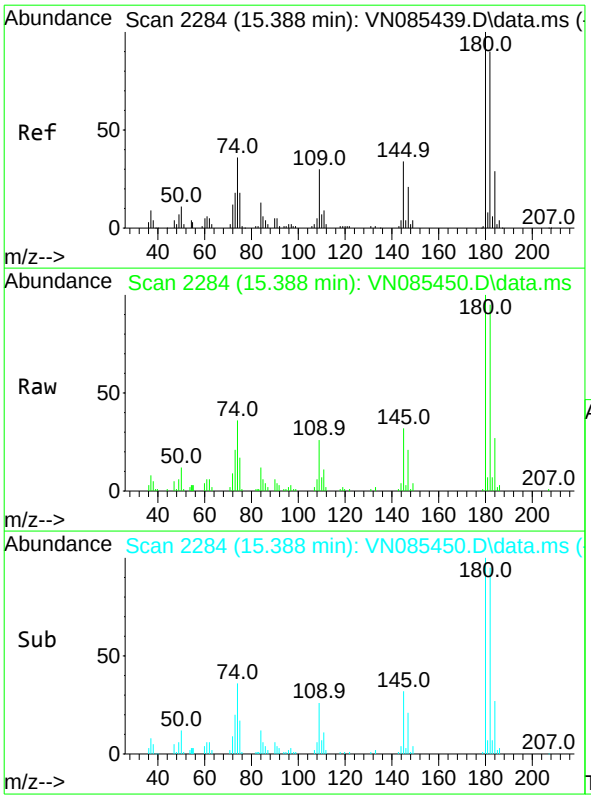


#92
1,2-Dibromo-3-Chloropropane
Concen: 17.740 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 75 Resp: 10904

Ion	Ratio	Lower	Upper
75	100		
155	69.0	36.4	109.2
157	94.7	45.4	136.1

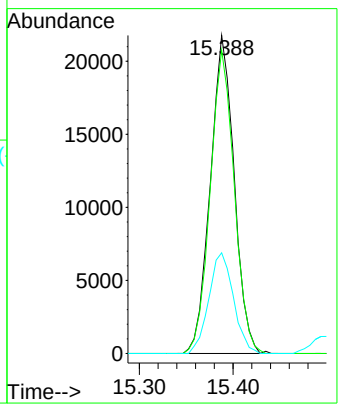




#93
1,2,4-Trichlorobenzene
Concen: 18.095 ug/l
RT: 15.388 min Scan# 22
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion:180 Resp: 38461

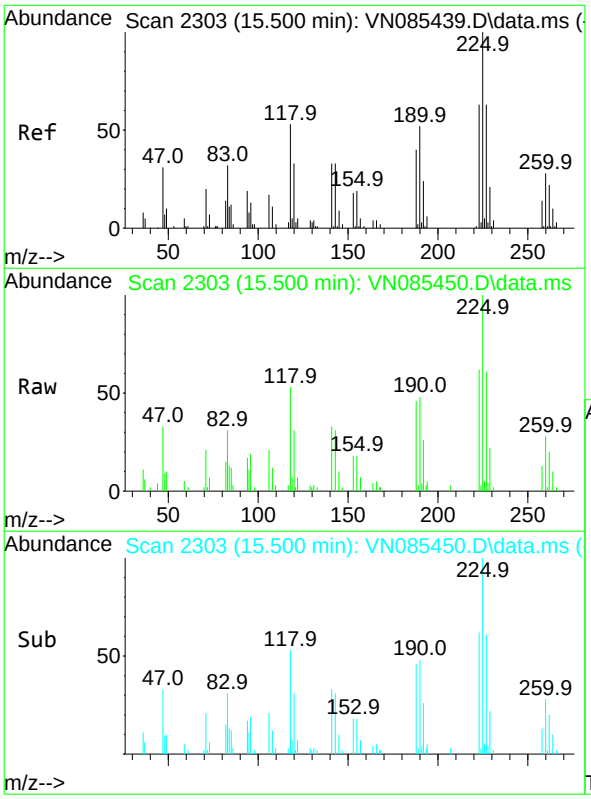
Ion	Ratio	Lower	Upper
180	100		
182	95.9	46.8	140.3
145	32.7	16.0	48.0



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Manual Integrations APPROVED

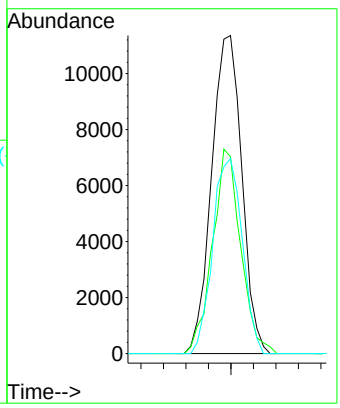
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

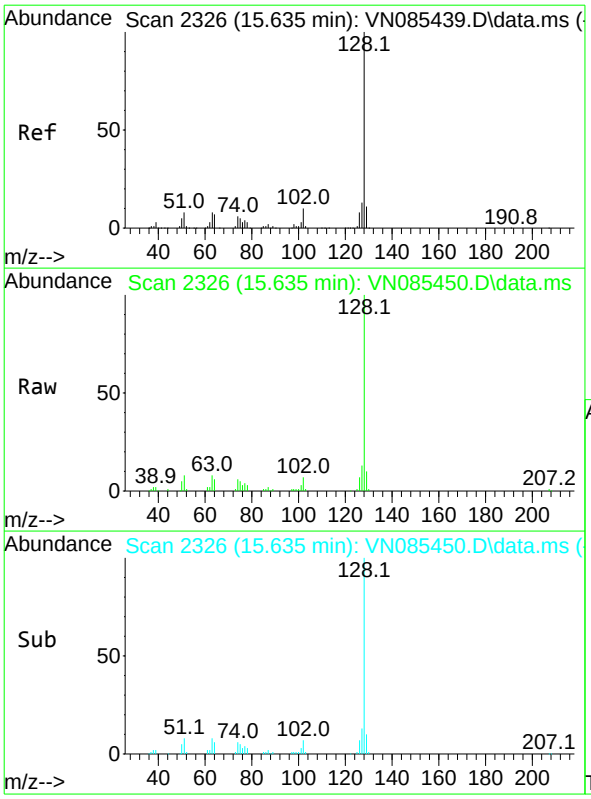


#94
Hexachlorobutadiene
Concen: 18.761 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion:225 Resp: 21171

Ion	Ratio	Lower	Upper
225	100		
223	60.1	30.7	92.1
227	60.0	30.9	92.5

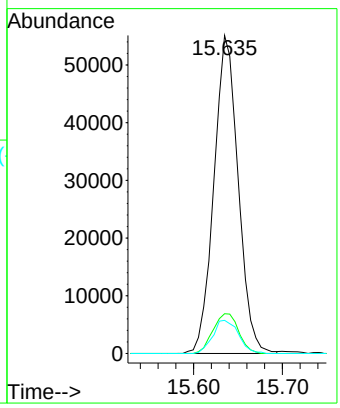




#95
Naphthalene
Concen: 16.518 ug/l
RT: 15.635 min Scan# 23
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion:128 Resp: 104770

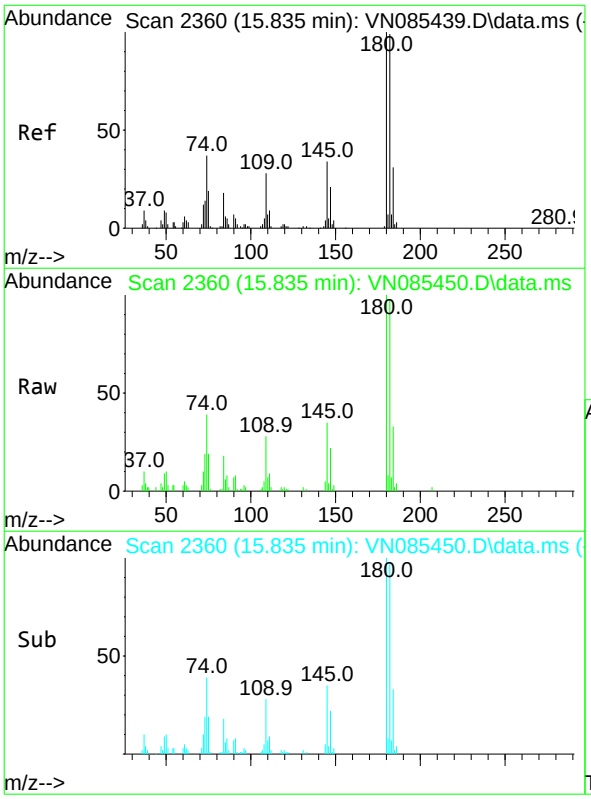
Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.6	16.0
129	11.0	8.8	13.2



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Manual Integrations
APPROVED

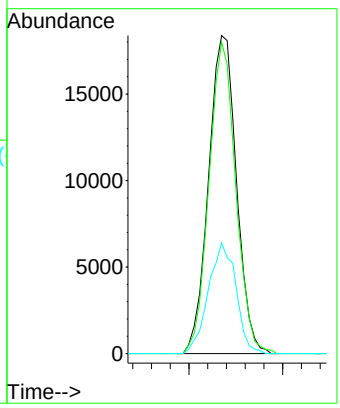
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#96
1,2,3-Trichlorobenzene
Concen: 17.704 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion:180 Resp: 38077

Ion	Ratio	Lower	Upper
180	100		
182	93.7	47.4	142.2
145	34.4	16.9	50.7



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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	VN0115WBSD01	SDG No.:	Q1062
Lab Sample ID:	VN0115WBSD01	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:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085451.D	1		01/15/25 11:02	VN011525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	19.5		0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	19.1		0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	19.3		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	18.5		0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	19.7		0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	19.6		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	19.3		0.26	0.75	1.00	ug/L
67-64-1	Acetone	94.9		1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	18.1		0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	21.1		0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	20.1		0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	19.9		0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	20.0		0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	97.6		1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.9		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.7		0.25	0.75	1.00	ug/L
67-66-3	Chloroform	20.1		0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	19.9		0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	20.0		0.19	0.50	1.00	ug/L
71-43-2	Benzene	20.1		0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	20.7		0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	20.1		0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	20.2		0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	20.9		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	21.5		0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	20.3		0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	21.0		0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	20.9		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	100		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:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	VN0115WBSD01	SDG No.:	Q1062
Lab Sample ID:	VN0115WBSD01	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:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085451.D	1		01/15/25 11:02	VN011525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	20.2		0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	20.7		0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	19.5		0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	20.4		0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	42.5		0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	20.9		0.14	0.50	1.00	ug/L
100-42-5	Styrene	20.8		0.16	0.50	1.00	ug/L
75-25-2	Bromoform	20.6		0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	20.6		0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	19.0		0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	20.1		0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.1		0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	19.0		0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	48.9		81 - 118		98%	SPK: 50
1868-53-7	Dibromofluoromethane	49.3		80 - 119		99%	SPK: 50
2037-26-5	Toluene-d8	50.1		89 - 112		100%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.4		85 - 114		101%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	189000	8.218				
540-36-3	1,4-Difluorobenzene	323000	9.1				
3114-55-4	Chlorobenzene-d5	286000	11.865				
3855-82-1	1,4-Dichlorobenzene-d4	137000	13.788				

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_N\Data\VN011525\
Data File : VN085451.D
Acq On : 15 Jan 2025 11:02
Operator : JC\MD
Sample : VN0115WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 16 00:54:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.218	168	188898	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	323122	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	286298	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	136502	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.576	65	149231	48.941	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 97.880%			
35) Dibromofluoromethane	8.159	113	110423	49.259	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.520%			
50) Toluene-d8	10.565	98	399040	50.102	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.200%			
62) 4-Bromofluorobenzene	12.847	95	137216	50.364	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 100.720%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	50526	19.755	ug/l	95
3) Chloromethane	2.359	50	53907	19.467	ug/l	98
4) Vinyl Chloride	2.512	62	53251	19.131	ug/l	98
5) Bromomethane	2.965	94	32421	19.283	ug/l	95
6) Chloroethane	3.124	64	32723	18.543	ug/l	98
7) Trichlorofluoromethane	3.506	101	79391	19.658	ug/l	98
8) Diethyl Ether	3.965	74	26011	18.643	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.365	101	44531	19.576	ug/l	99
10) Methyl Iodide	4.594	142	52886	20.302	ug/l	95
11) Tert butyl alcohol	5.500	59	33491	95.920	ug/l	100
12) 1,1-Dichloroethene	4.341	96	39080	19.277	ug/l	98
13) Acrolein	4.171	56	55291	116.005	ug/l	99
14) Allyl chloride	5.030	41	63692	19.361	ug/l	99
15) Acrylonitrile	5.712	53	108425	97.766	ug/l	99
16) Acetone	4.418	43	93485	94.887	ug/l	98
17) Carbon Disulfide	4.718	76	112944	18.094	ug/l	99
18) Methyl Acetate	5.012	43	58686	19.589	ug/l	100
19) Methyl tert-butyl Ether	5.788	73	138775	21.081	ug/l	98
20) Methylene Chloride	5.271	84	49058	20.114	ug/l	98
21) trans-1,2-Dichloroethene	5.783	96	43073	19.880	ug/l	93
22) Diisopropyl ether	6.665	45	156331	21.410	ug/l	97
23) Vinyl Acetate	6.600	43	528099m	103.348	ug/l	
24) 1,1-Dichloroethane	6.565	63	88831	19.952	ug/l	99
25) 2-Butanone	7.477	43	141498	97.595	ug/l	93
26) 2,2-Dichloropropane	7.488	77	78212	21.728	ug/l	99
27) cis-1,2-Dichloroethene	7.482	96	50200	19.672	ug/l	95
28) Bromochloromethane	7.806	49	38238	18.460	ug/l	100
29) Tetrahydrofuran	7.835	42	93959	102.217	ug/l	99
30) Chloroform	7.965	83	92715	20.149	ug/l	98
31) Cyclohexane	8.247	56	72255	18.672	ug/l	97
32) 1,1,1-Trichloroethane	8.165	97	80190	19.867	ug/l	98
36) 1,1-Dichloropropene	8.371	75	61822	19.650	ug/l	98
37) Ethyl Acetate	7.553	43	59684	18.795	ug/l	97
38) Carbon Tetrachloride	8.359	117	71714	19.911	ug/l	97
39) Methylcyclohexane	9.600	83	59161	20.011	ug/l	93
40) Benzene	8.600	78	189640	20.061	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085451.D
Acq On : 15 Jan 2025 11:02
Operator : JC\MD
Sample : VN0115WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 16 00:54:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	7.771	41	31866	19.288 ug/l	99
42) 1,2-Dichloroethane	8.665	62	73669	20.692 ug/l	98
43) Isopropyl Acetate	8.682	43	100283	19.708 ug/l	99
44) Trichloroethene	9.347	130	44329	20.145 ug/l	97
45) 1,2-Dichloropropane	9.618	63	48696	20.167 ug/l	99
46) Dibromomethane	9.706	93	34080	19.561 ug/l	97
47) Bromodichloromethane	9.882	83	74218	20.909 ug/l	99
48) Methyl methacrylate	9.676	41	46655	20.374 ug/l	99
49) 1,4-Dioxane	9.688	88	14983	388.550 ug/l #	76
51) 4-Methyl-2-Pentanone	10.441	43	300611	101.808 ug/l	100
52) Toluene	10.623	92	117631	21.476 ug/l	97
53) t-1,3-Dichloropropene	10.829	75	68014	20.276 ug/l	96
54) cis-1,3-Dichloropropene	10.306	75	75146	20.973 ug/l	100
55) 1,1,2-Trichloroethane	11.012	97	45220	20.861 ug/l	98
56) Ethyl methacrylate	10.870	69	63954	18.769 ug/l	98
57) 1,3-Dichloropropane	11.159	76	76979	20.424 ug/l	98
58) 2-Chloroethyl Vinyl ether	10.159	63	148262	107.782 ug/l	97
59) 2-Hexanone	11.188	43	211689	101.890 ug/l	99
60) Dibromochloromethane	11.353	129	52957	20.236 ug/l	100
61) 1,2-Dibromoethane	11.465	107	42146	19.533 ug/l	100
64) Tetrachloroethene	11.100	164	40480	20.740 ug/l	97
65) Chlorobenzene	11.888	112	122590	19.546 ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.959	131	44850	19.484 ug/l	100
67) Ethyl Benzene	11.959	91	208196	20.381 ug/l	100
68) m/p-Xylenes	12.070	106	160511	42.515 ug/l	98
69) o-Xylene	12.394	106	75509	20.928 ug/l	99
70) Styrene	12.406	104	124126	20.788 ug/l	100
71) Bromoform	12.576	173	34000	20.643 ug/l #	99
73) Isopropylbenzene	12.694	105	189617	20.582 ug/l	99
74) N-amyl acetate	12.488	43	81241	19.619 ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.935	83	61871	19.012 ug/l	99
76) 1,2,3-Trichloropropane	12.988	75	56609m	20.404 ug/l	
77) Bromobenzene	12.976	156	48489	20.145 ug/l	98
78) n-propylbenzene	13.035	91	228827	20.981 ug/l	100
79) 2-Chlorotoluene	13.123	91	143092	20.272 ug/l	99
80) 1,3,5-Trimethylbenzene	13.170	105	163195	21.445 ug/l	100
81) trans-1,4-Dichloro-2-b...	12.729	75	20113m	19.614 ug/l	
82) 4-Chlorotoluene	13.217	91	144513	20.562 ug/l	99
83) tert-Butylbenzene	13.435	119	131013	20.501 ug/l	99
84) 1,2,4-Trimethylbenzene	13.476	105	164079	21.634 ug/l	100
85) sec-Butylbenzene	13.611	105	189519	21.398 ug/l	99
86) p-Isopropyltoluene	13.723	119	153867	20.798 ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	89126	20.107 ug/l	99
88) 1,4-Dichlorobenzene	13.806	146	87559	19.057 ug/l	99
89) n-Butylbenzene	14.053	91	128246	20.183 ug/l	100
90) Hexachloroethane	14.329	117	31733	18.820 ug/l	100
91) 1,2-Dichlorobenzene	14.106	146	83864	18.967 ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.717	75	10944	18.416 ug/l	99
93) 1,2,4-Trichlorobenzene	15.388	180	39555	19.248 ug/l	98
94) Hexachlorobutadiene	15.500	225	20590	18.872 ug/l	98
95) Naphthalene	15.635	128	106293	17.334 ug/l	99
96) 1,2,3-Trichlorobenzene	15.841	180	39966	19.221 ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085451.D
Acq On : 15 Jan 2025 11:02
Operator : JC\MD
Sample : VN0115WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 16 00:54:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

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

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

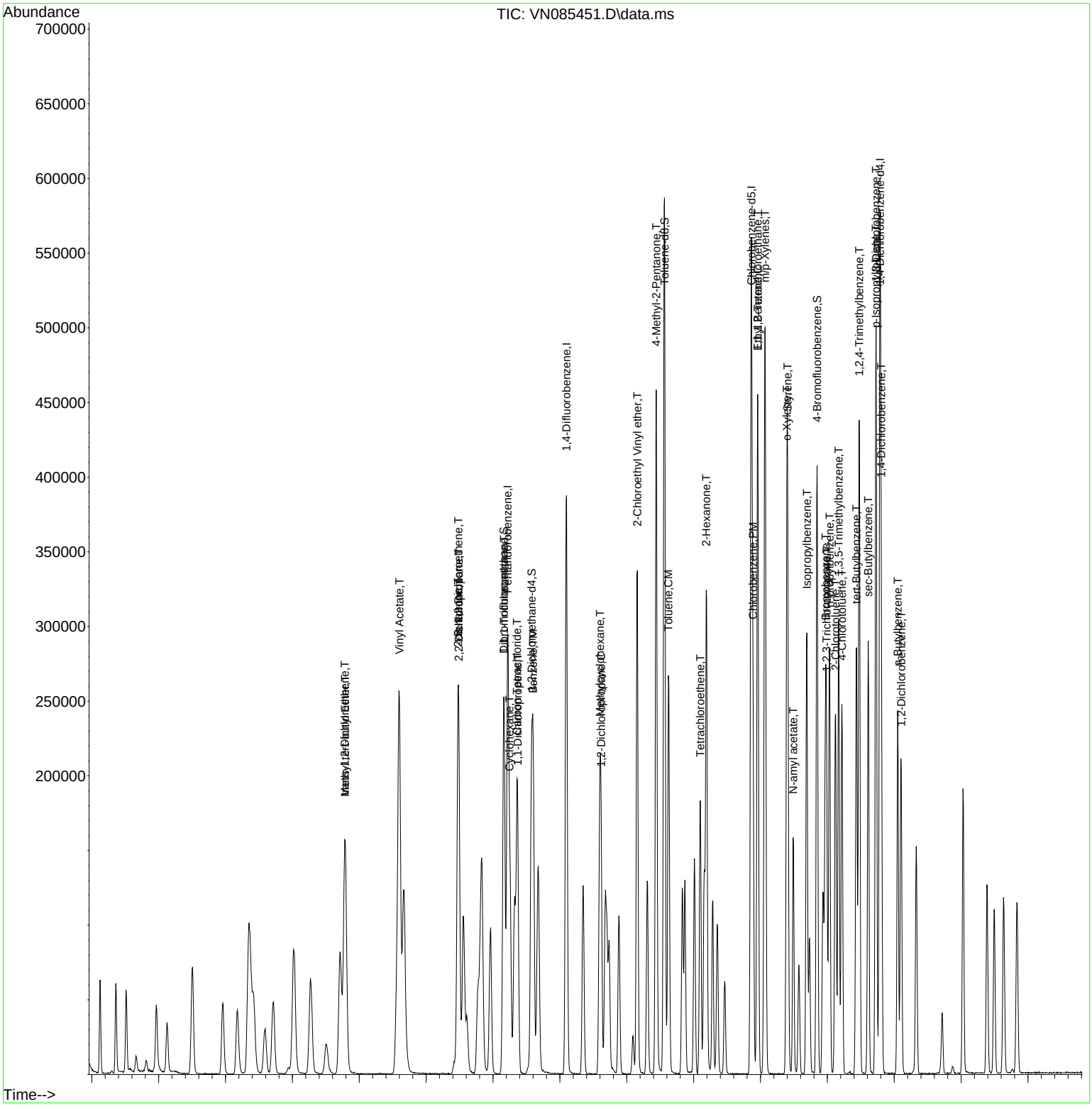
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085451.D
Acq On : 15 Jan 2025 11:02
Operator : JC\MD
Sample : VN0115WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

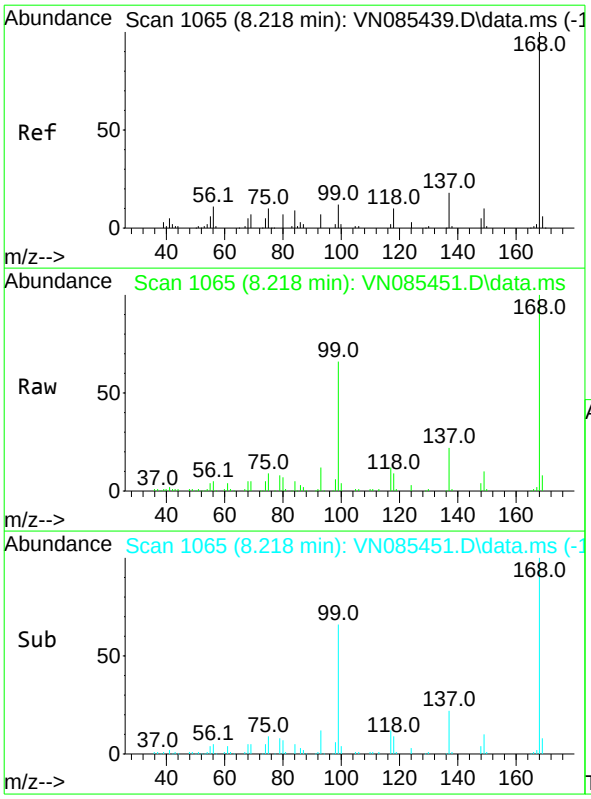
Quant Time: Jan 16 00:54:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

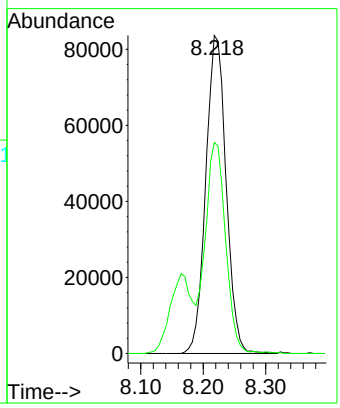




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion:168 Resp: 188898

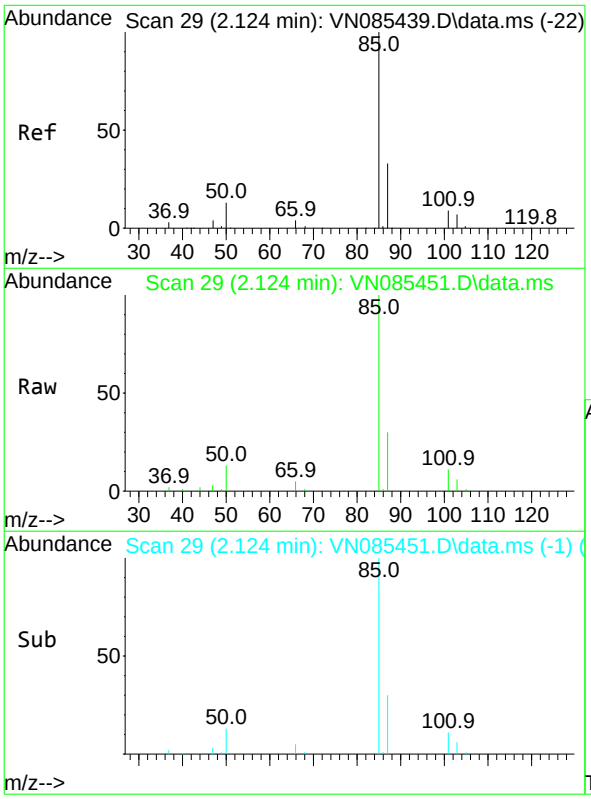
Ion	Ratio	Lower	Upper
168	100		
99	66.1	53.6	80.4



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Manual Integrations
APPROVED

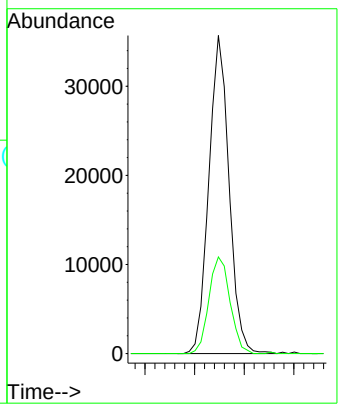
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

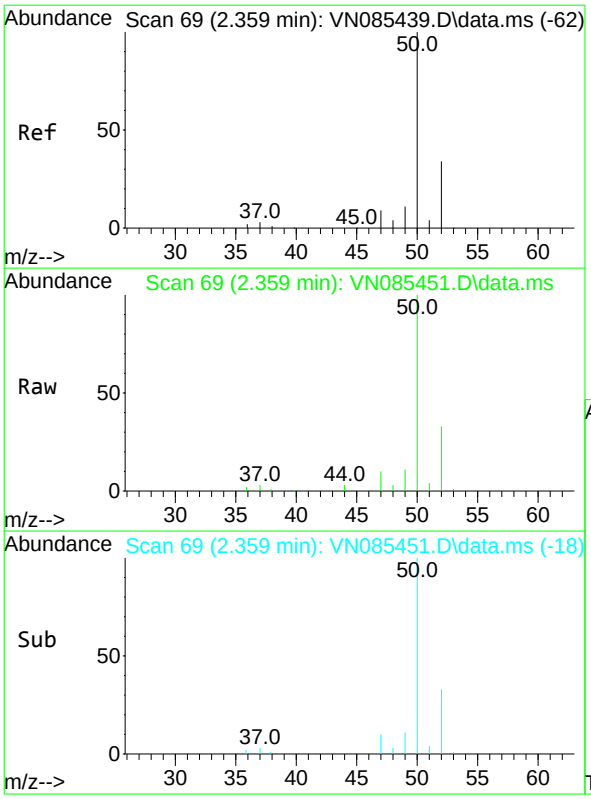


#2
Dichlorodifluoromethane
Concen: 19.755 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 85 Resp: 50526

Ion	Ratio	Lower	Upper
85	100		
87	30.4	16.7	50.1

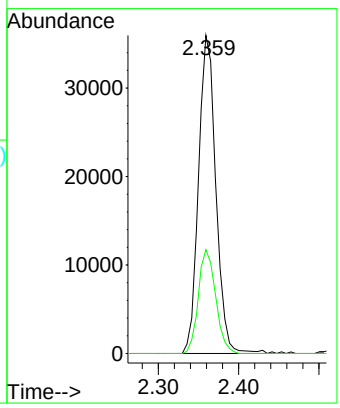




#3
Chloromethane
Concen: 19.467 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 50 Resp: 53907

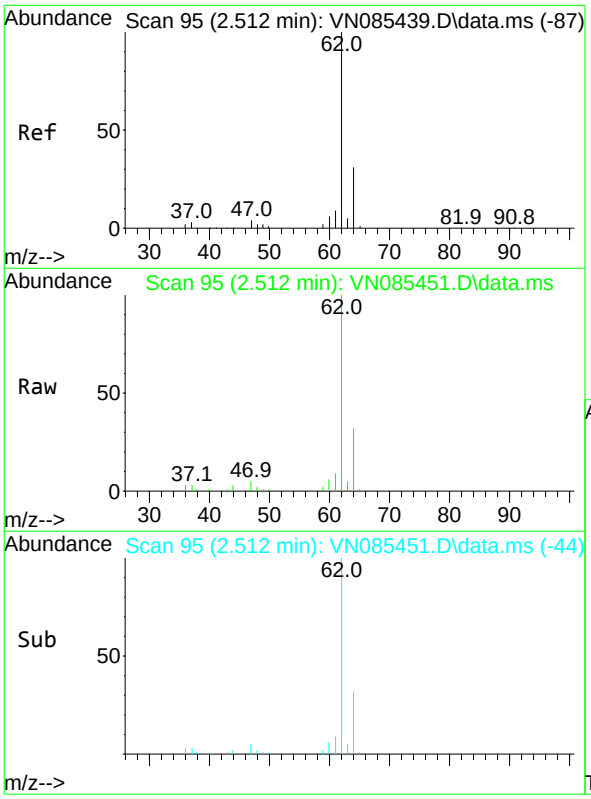
Ion	Ratio	Lower	Upper
50	100		
52	32.6	27.0	40.6



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Manual Integrations
APPROVED

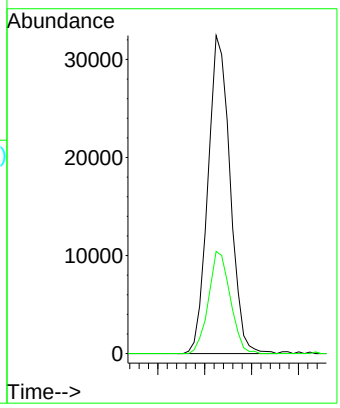
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

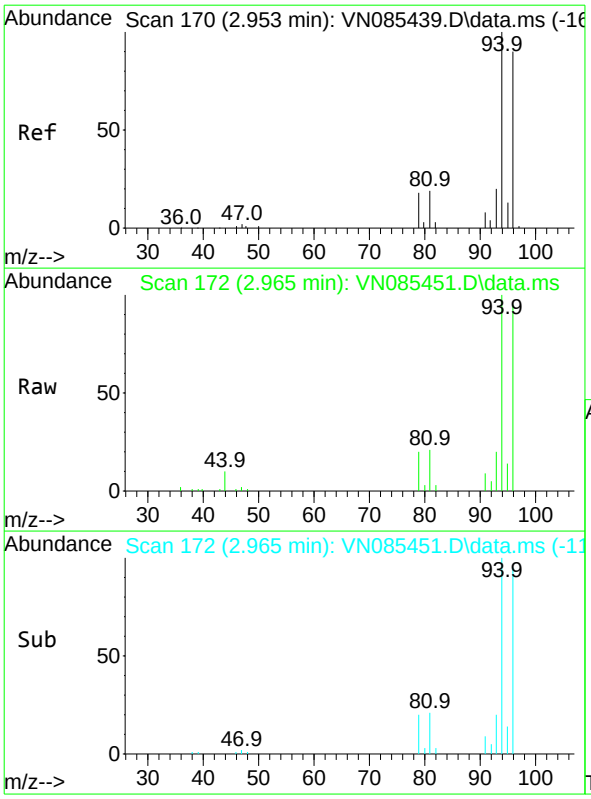


#4
Vinyl Chloride
Concen: 19.131 ug/l
RT: 2.512 min Scan# 95
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 62 Resp: 53251

Ion	Ratio	Lower	Upper
62	100		
64	32.1	24.8	37.2

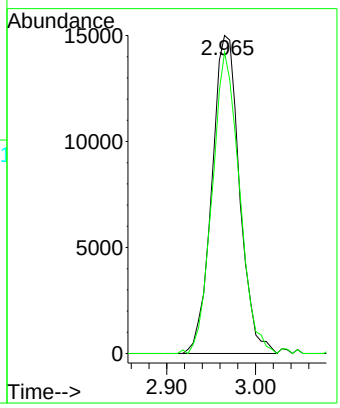




#5
Bromomethane
Concen: 19.283 ug/l
RT: 2.965 min Scan# 17
Delta R.T. 0.012 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 94 Resp: 32421

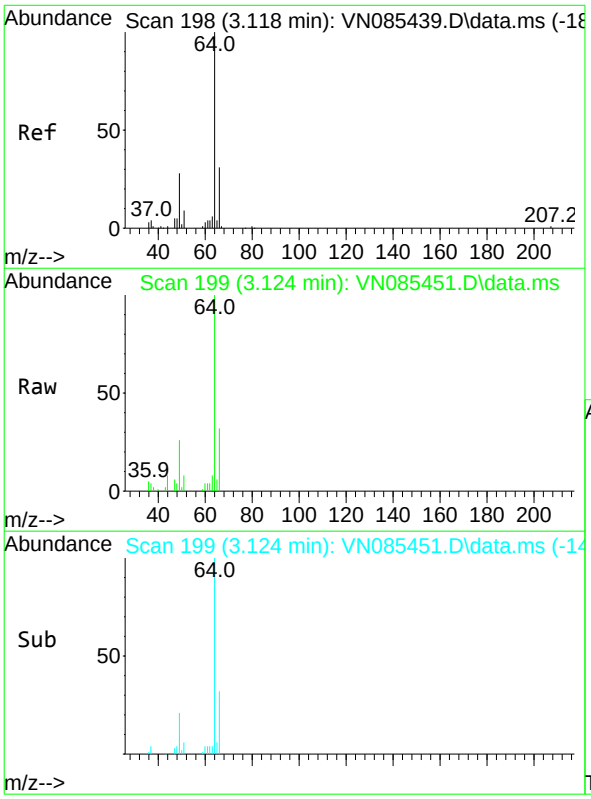
Ion	Ratio	Lower	Upper
94	100		
96	94.7	71.8	107.6



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Manual Integrations
APPROVED

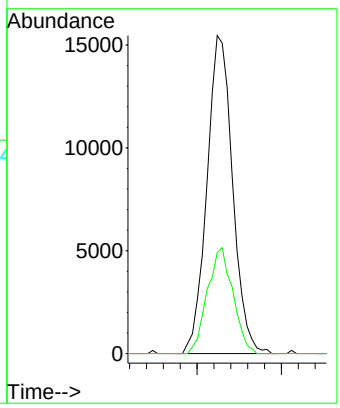
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

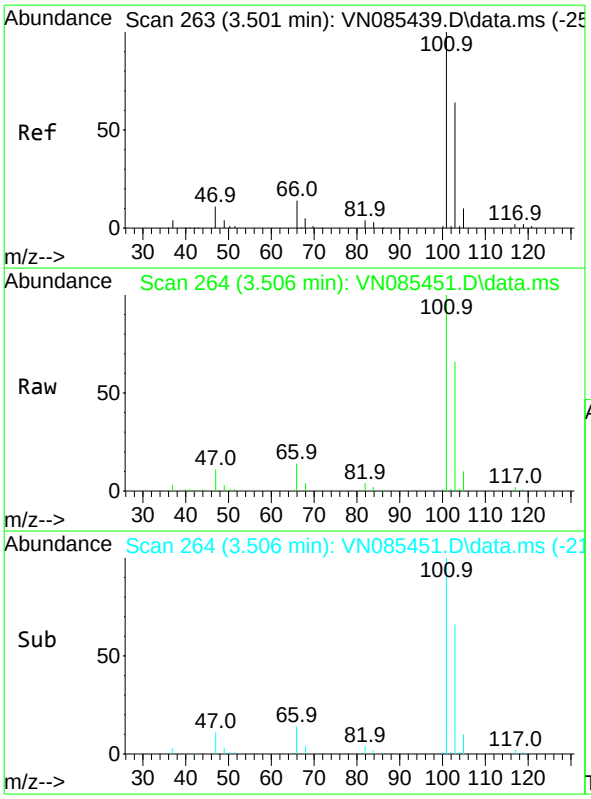


#6
Chloroethane
Concen: 18.543 ug/l
RT: 3.124 min Scan# 199
Delta R.T. 0.006 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 64 Resp: 32723

Ion	Ratio	Lower	Upper
64	100		
66	31.8	24.6	36.8

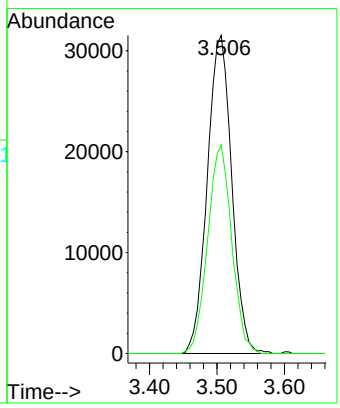




#7
Trichlorofluoromethane
Concen: 19.658 ug/l
RT: 3.506 min Scan# 26
Delta R.T. 0.006 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion:101 Resp: 79391

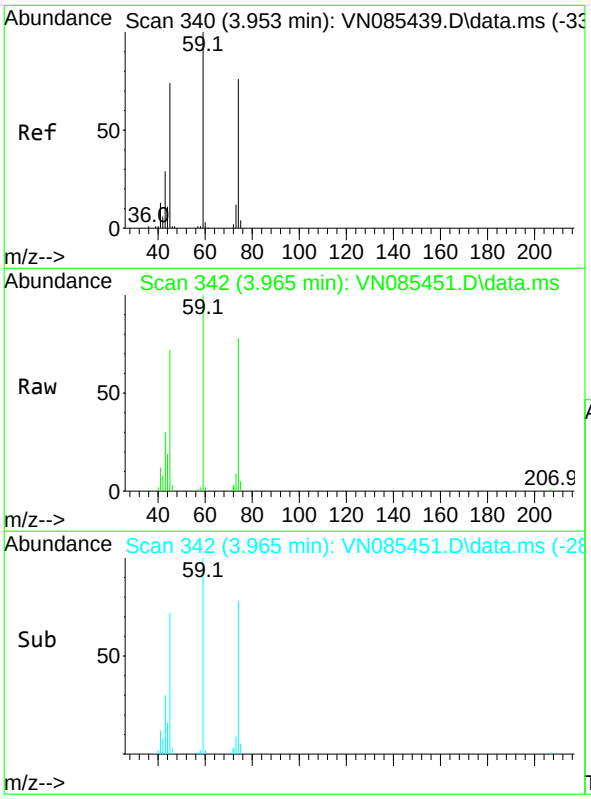
Ion	Ratio	Lower	Upper
101	100		
103	65.7	51.4	77.2



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Manual Integrations
APPROVED

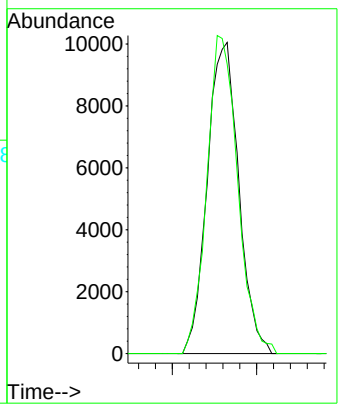
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

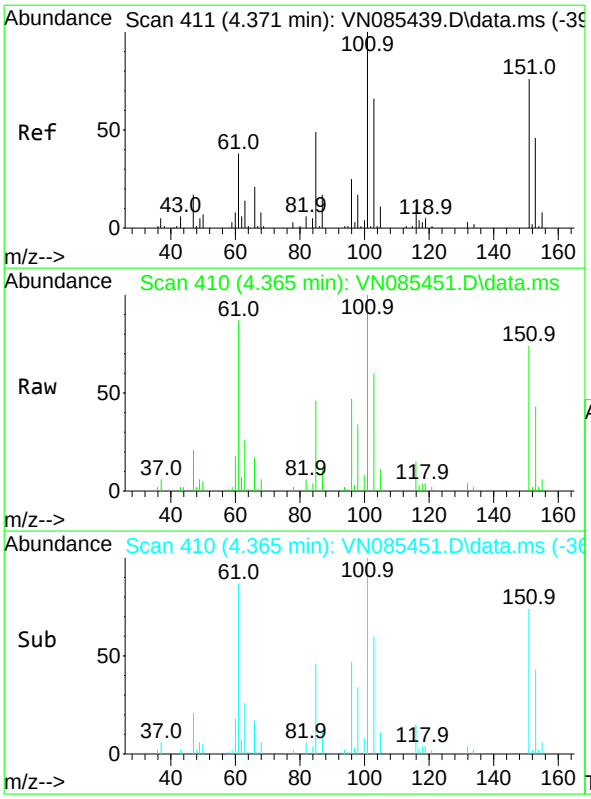


#8
Diethyl Ether
Concen: 18.643 ug/l
RT: 3.965 min Scan# 342
Delta R.T. 0.012 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 74 Resp: 26011

Ion	Ratio	Lower	Upper
74	100		
45	100.1	49.7	149.1





#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.576 ug/l
RT: 4.365 min Scan# 41
Delta R.T. -0.006 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

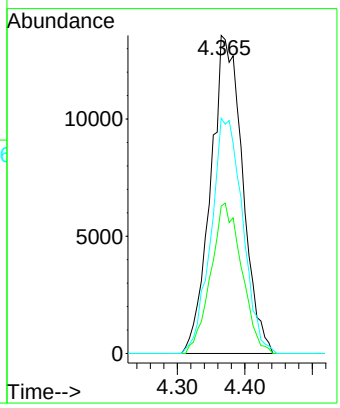
Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

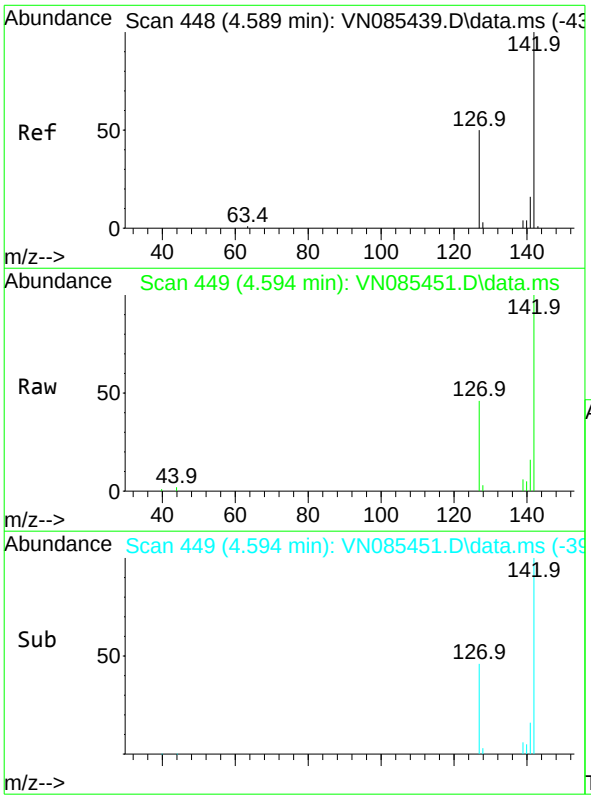
Tgt Ion:101 Resp: 44531

Ion	Ratio	Lower	Upper
101	100		
85	45.8	37.8	56.8
151	73.3	58.8	88.2

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

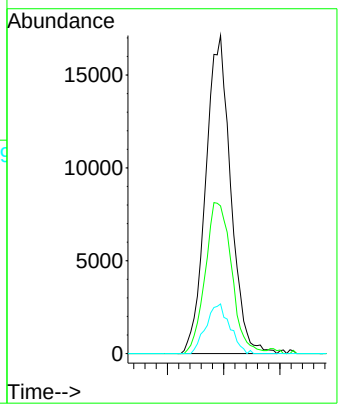


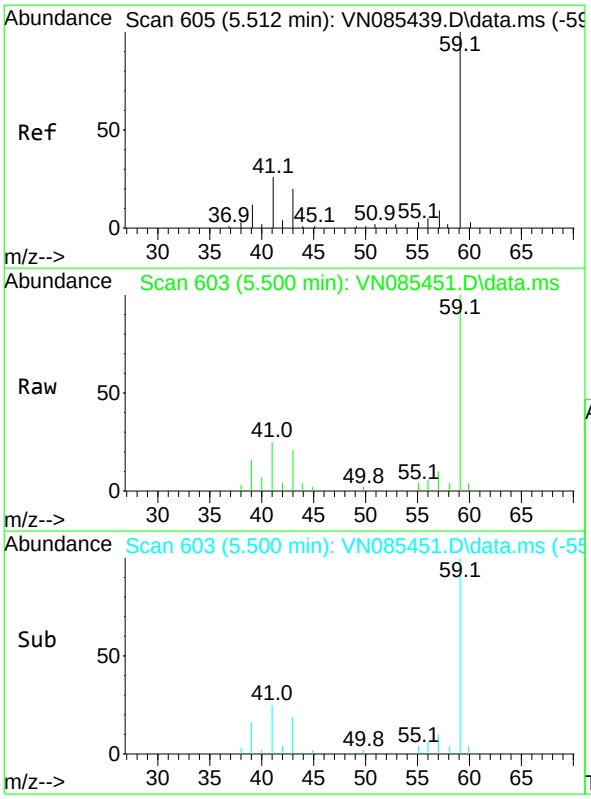


#10
Methyl Iodide
Concen: 20.302 ug/l
RT: 4.594 min Scan# 449
Delta R.T. 0.006 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion:142 Resp: 52886

Ion	Ratio	Lower	Upper
142	100		
127	46.4	40.3	60.5
141	15.6	12.8	19.2

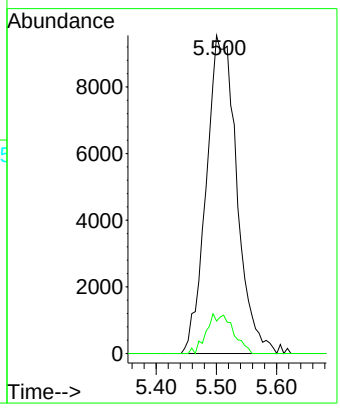




#11
Tert butyl alcohol
Concen: 95.920 ug/l
RT: 5.500 min Scan# 60
Delta R.T. -0.012 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 59 Resp: 33491

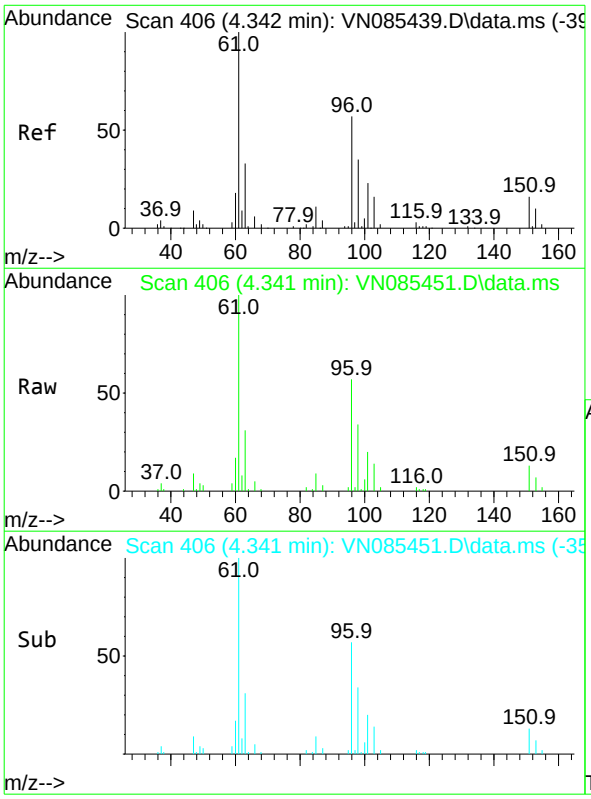
Ion	Ratio	Lower	Upper
59	100		
57	10.9	8.6	13.0



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Manual Integrations
APPROVED

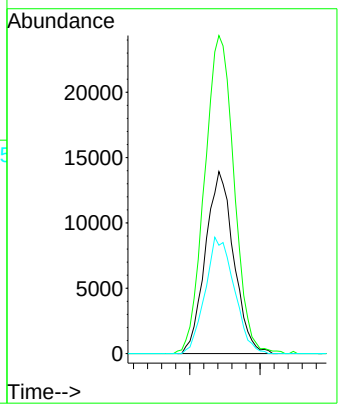
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

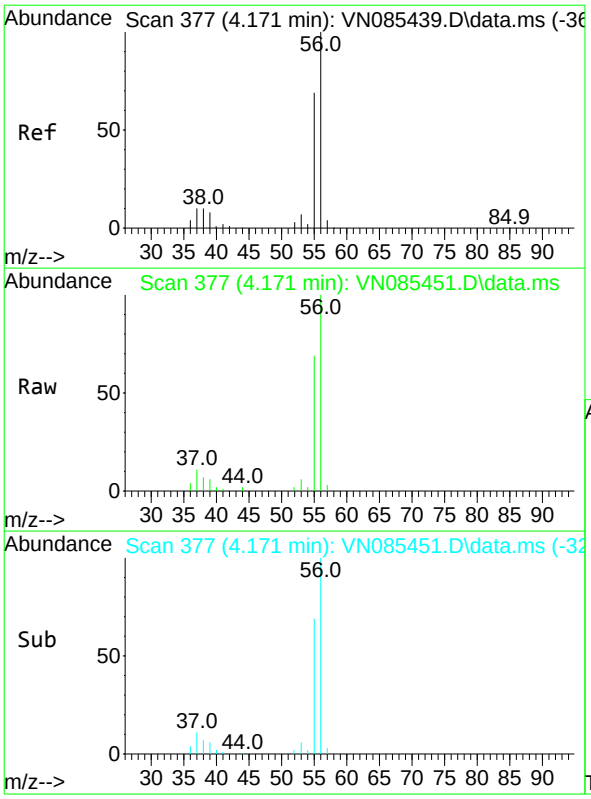


#12
1,1-Dichloroethene
Concen: 19.277 ug/l
RT: 4.341 min Scan# 406
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 96 Resp: 39080

Ion	Ratio	Lower	Upper
96	100		
61	173.3	141.0	211.4
98	59.5	49.0	73.6

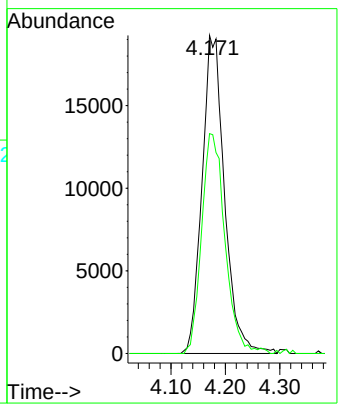




#13
Acrolein
Concen: 116.005 ug/l
RT: 4.171 min Scan# 37
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 56 Resp: 55291

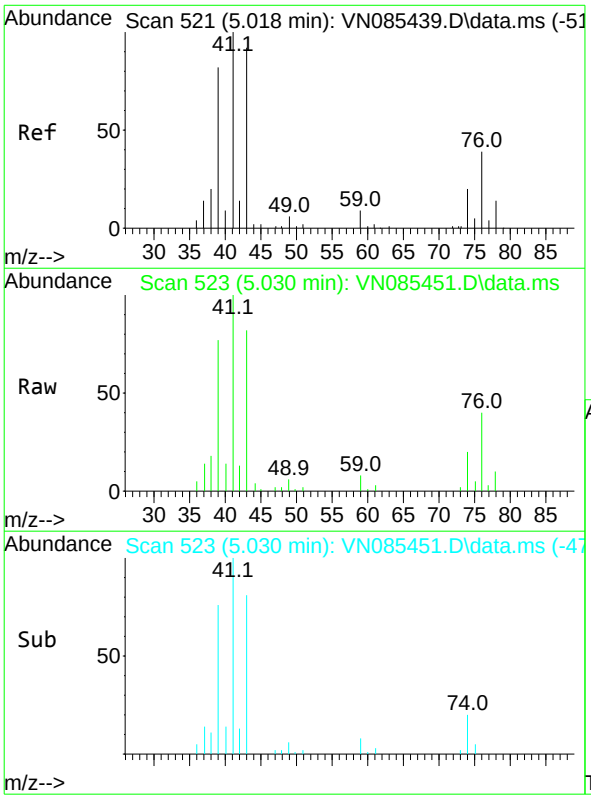
Ion	Ratio	Lower	Upper
56	100		
55	71.3	56.3	84.5



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Manual Integrations
APPROVED

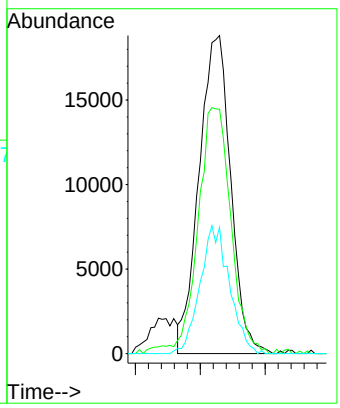
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

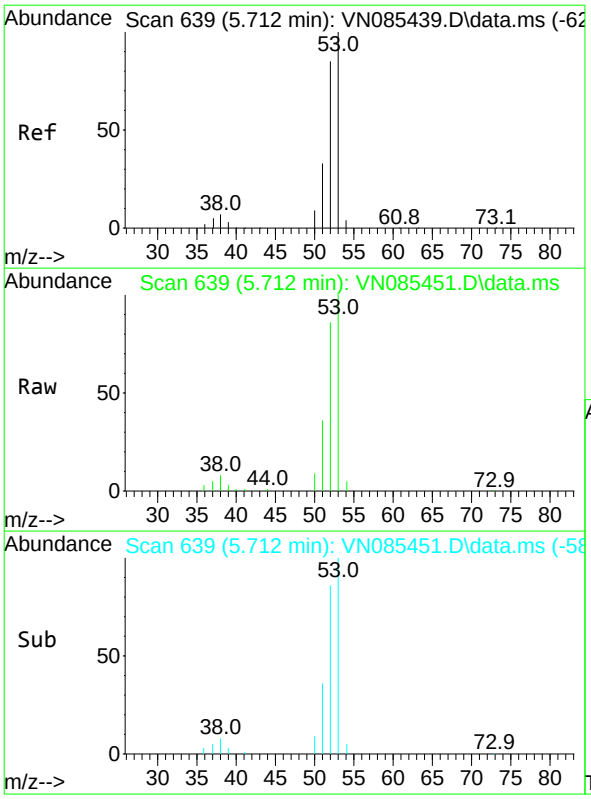


#14
Allyl chloride
Concen: 19.361 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.012 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 41 Resp: 63692

Ion	Ratio	Lower	Upper
41	100		
39	80.8	64.4	96.6
76	37.4	30.5	45.7

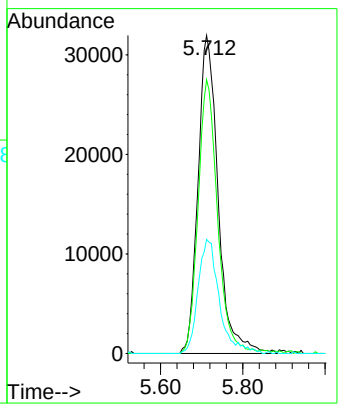




#15
Acrylonitrile
Concen: 97.766 ug/l
RT: 5.712 min Scan# 63
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 53 Resp: 108425

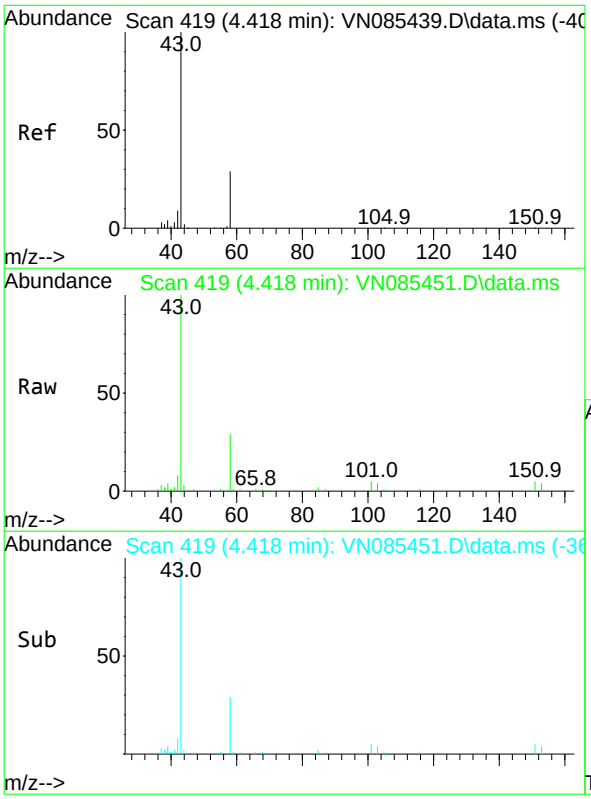
Ion	Ratio	Lower	Upper
53	100		
52	83.1	65.5	98.3
51	37.9	29.8	44.8



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Manual Integrations
APPROVED

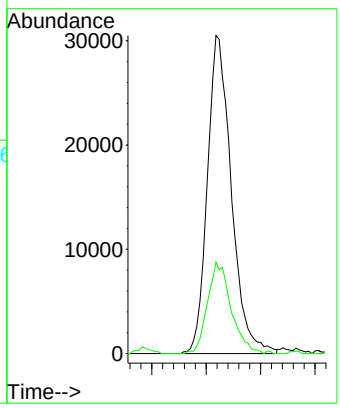
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

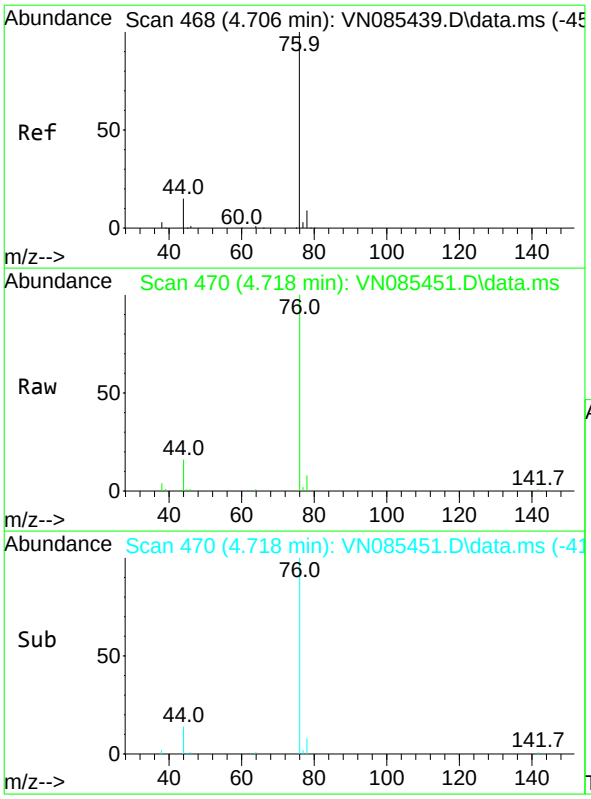


#16
Acetone
Concen: 94.887 ug/l
RT: 4.418 min Scan# 419
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 43 Resp: 93485

Ion	Ratio	Lower	Upper
43	100		
58	28.7	23.8	35.6

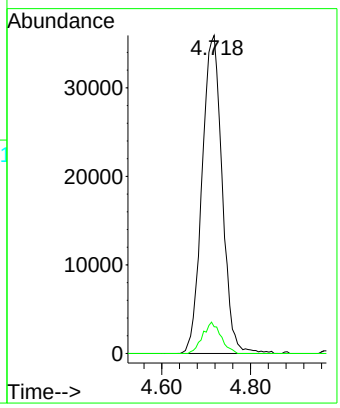




#17
Carbon Disulfide
Concen: 18.094 ug/l
RT: 4.718 min Scan# 47
Delta R.T. 0.012 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 76 Resp: 112944

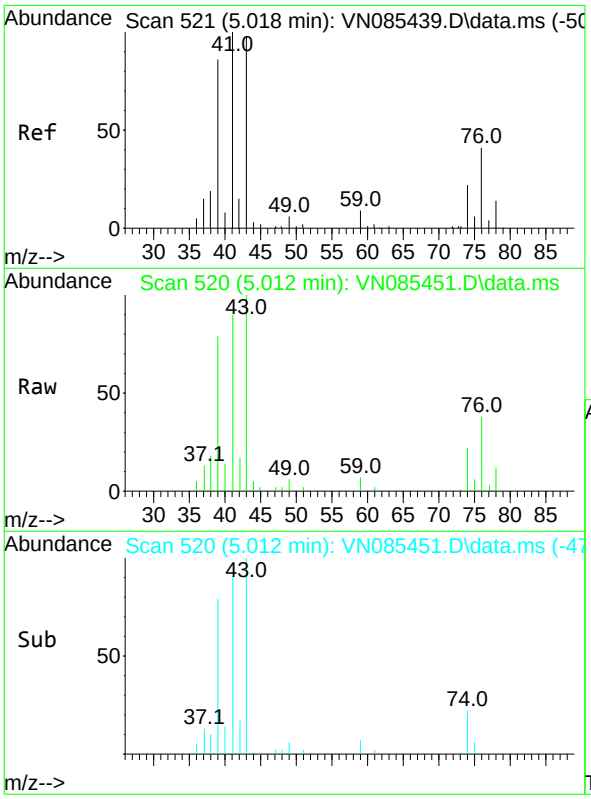
Ion	Ratio	Lower	Upper
76	100		
78	8.4	6.9	10.3



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Manual Integrations
APPROVED

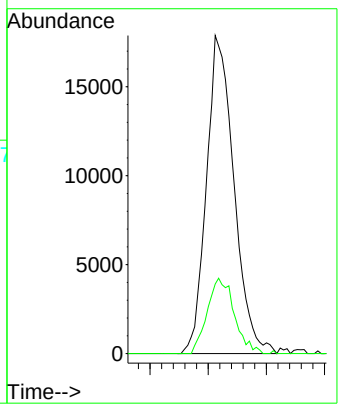
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

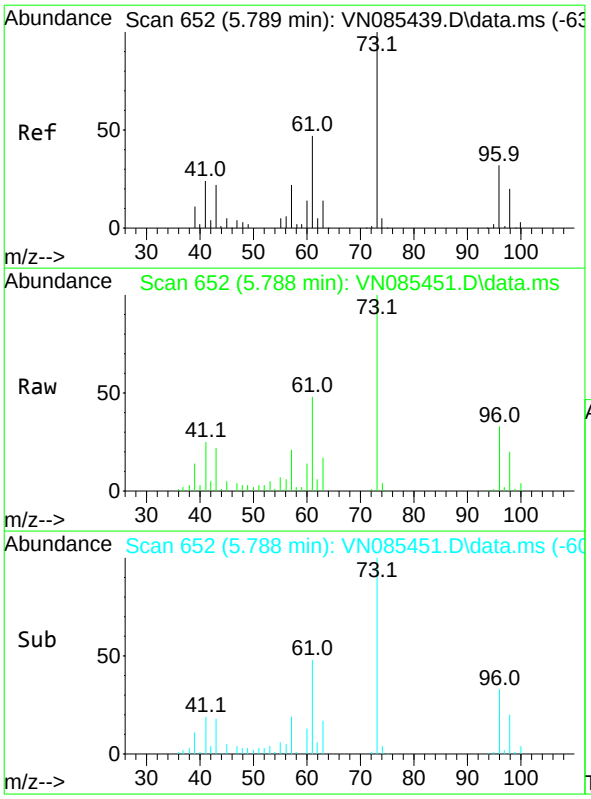


#18
Methyl Acetate
Concen: 19.589 ug/l
RT: 5.012 min Scan# 520
Delta R.T. -0.006 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 43 Resp: 58686

Ion	Ratio	Lower	Upper
43	100		
74	23.2	18.6	28.0

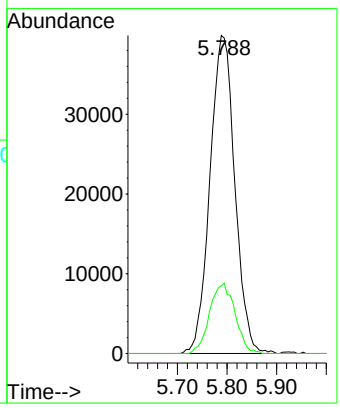




#19
Methyl tert-butyl Ether
Concen: 21.081 ug/l
RT: 5.788 min Scan# 65
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 73 Resp: 138775

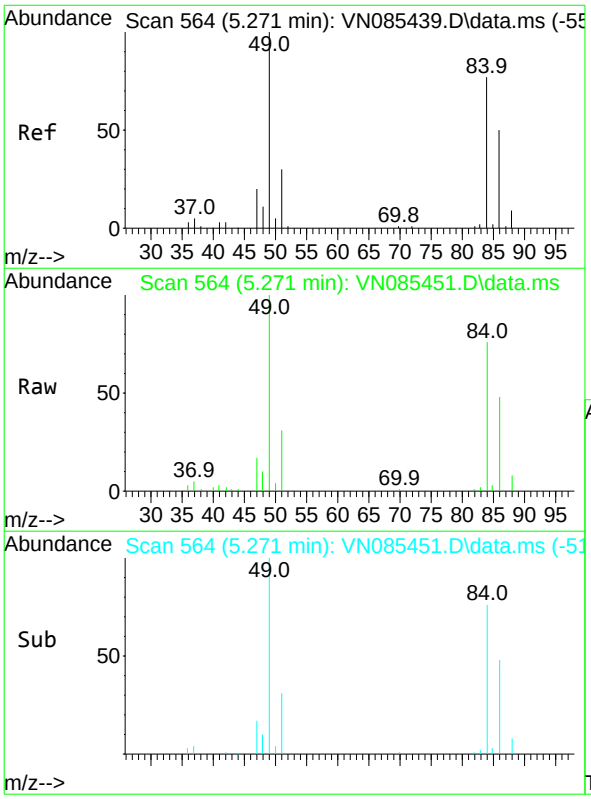
Ion	Ratio	Lower	Upper
73	100		
57	21.3	17.8	26.8



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Manual Integrations
APPROVED

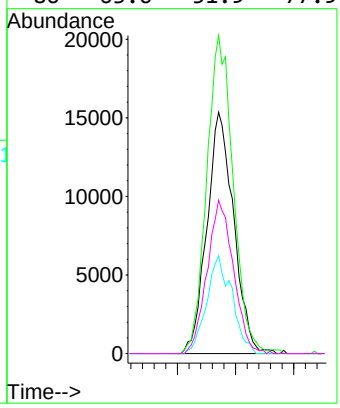
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

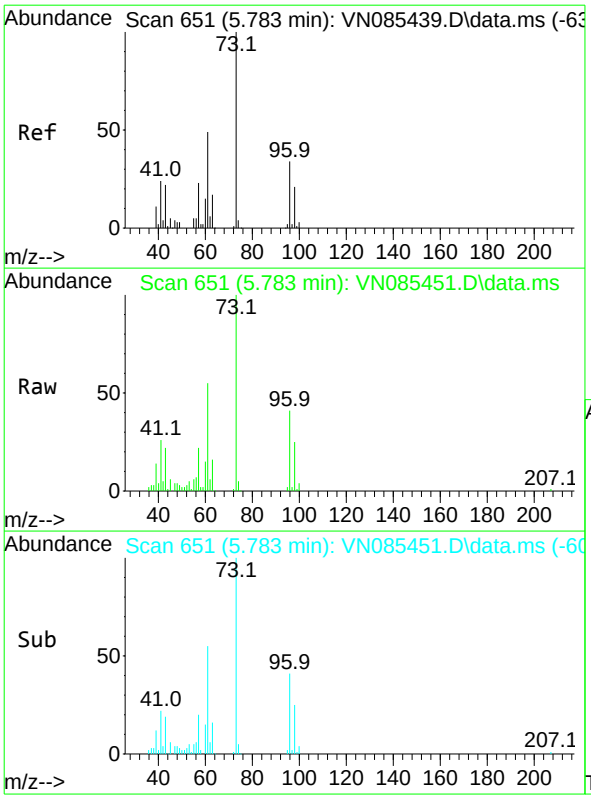


#20
Methylene Chloride
Concen: 20.114 ug/l
RT: 5.271 min Scan# 564
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 84 Resp: 49058

Ion	Ratio	Lower	Upper
84	100		
49	131.8	104.1	156.1
51	40.5	31.0	46.4
86	63.6	51.9	77.9

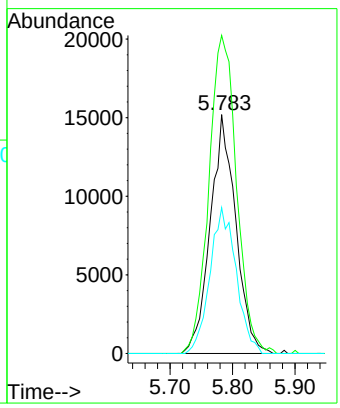




#21
trans-1,2-Dichloroethene
Concen: 19.880 ug/l
RT: 5.783 min Scan# 65
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 96 Resp: 43073

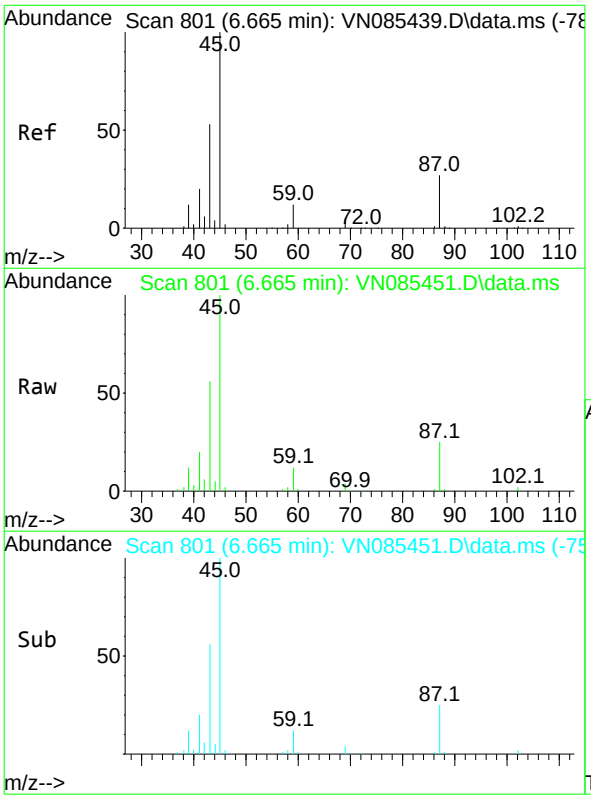
Ion	Ratio	Lower	Upper
96	100		
61	133.1	115.7	173.5
98	61.0	49.8	74.8



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Manual Integrations
APPROVED

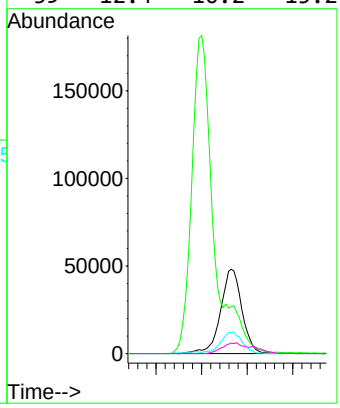
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

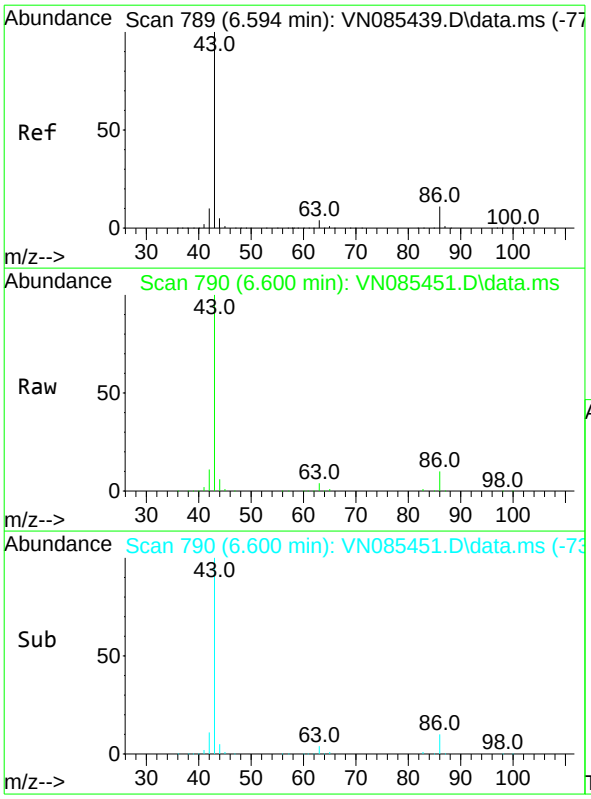


#22
Diisopropyl ether
Concen: 21.410 ug/l
RT: 6.665 min Scan# 801
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 45 Resp: 156331

Ion	Ratio	Lower	Upper
45	100		
43	54.3	45.0	67.6
87	25.3	21.8	32.8
59	12.4	10.2	15.2

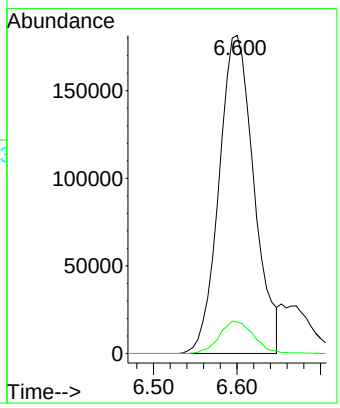




#23
Vinyl Acetate
Concen: 103.348 ug/l m
RT: 6.600 min Scan# 79
Delta R.T. 0.006 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 43 Resp: 528099

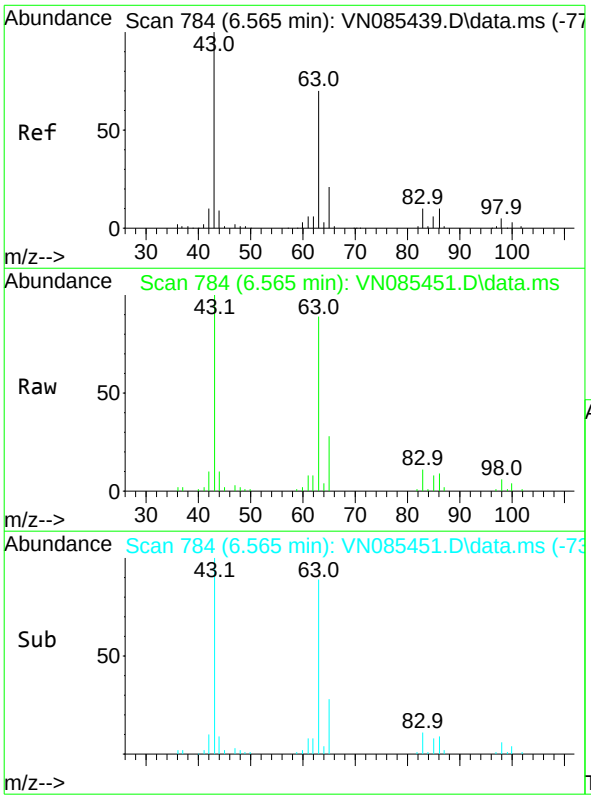
Ion	Ratio	Lower	Upper
43	100		
86	9.9	8.4	12.6



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Manual Integrations
APPROVED

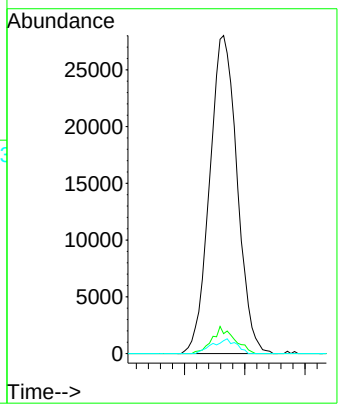
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

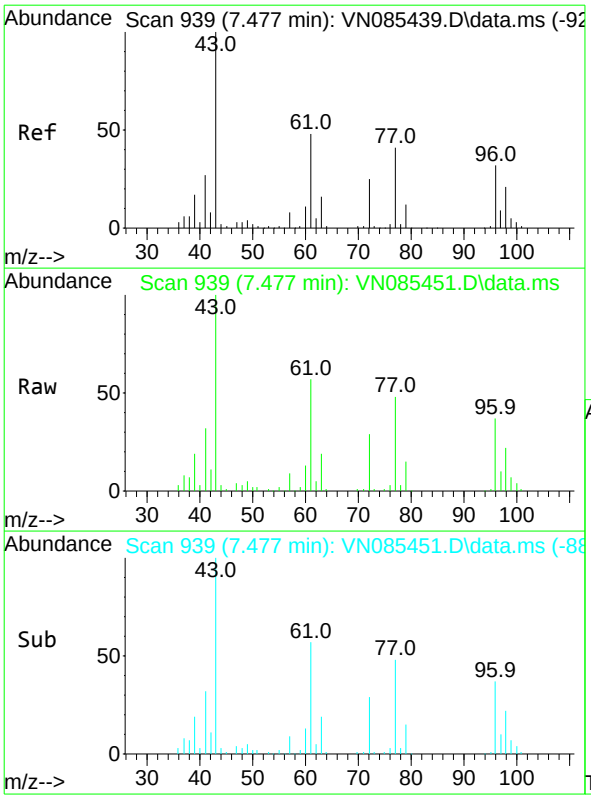


#24
1,1-Dichloroethane
Concen: 19.952 ug/l
RT: 6.565 min Scan# 784
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 63 Resp: 88831

Ion	Ratio	Lower	Upper
63	100		
98	6.3	3.3	9.8
100	4.1	2.0	6.0

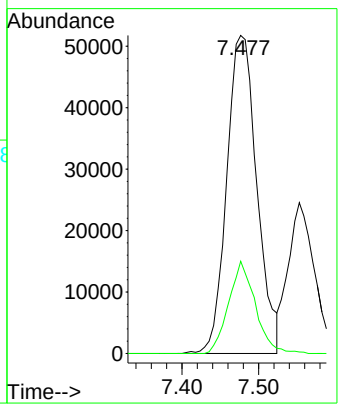




#25
2-Butanone
Concen: 97.595 ug/l
RT: 7.477 min Scan# 93
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 43 Resp: 141498

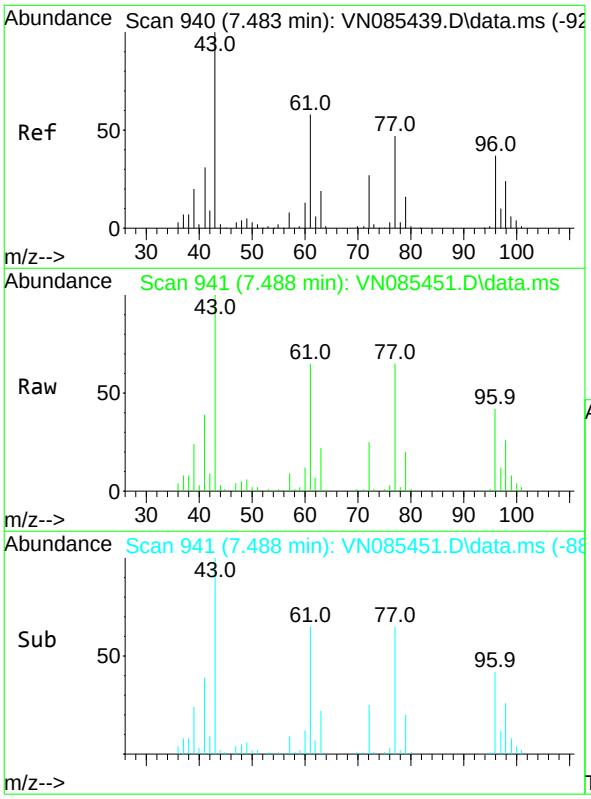
Ion	Ratio	Lower	Upper
43	100		
72	29.0	20.2	30.4



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Manual Integrations APPROVED

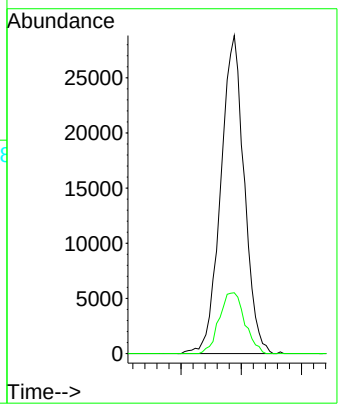
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

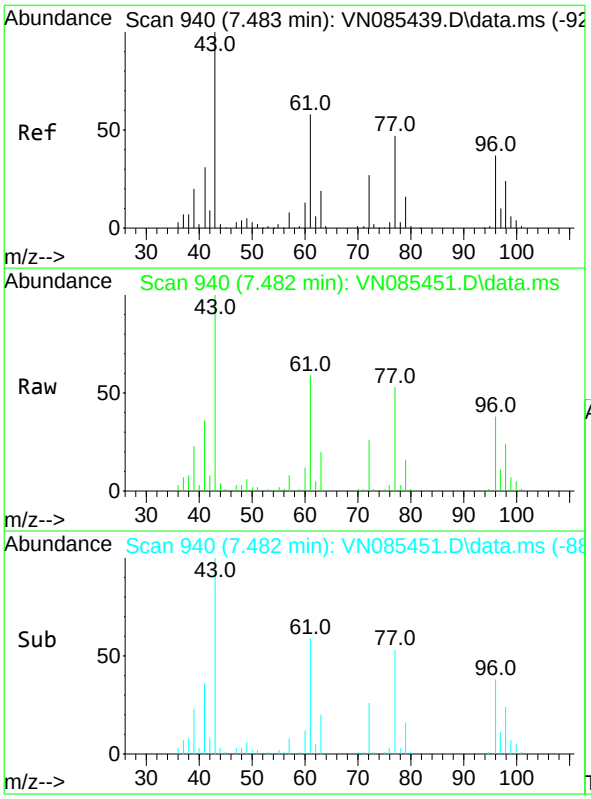


#26
2,2-Dichloropropane
Concen: 21.728 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 77 Resp: 78212

Ion	Ratio	Lower	Upper
77	100		
97	20.7	10.7	32.1





#27
cis-1,2-Dichloroethene
Concen: 19.672 ug/l
RT: 7.482 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

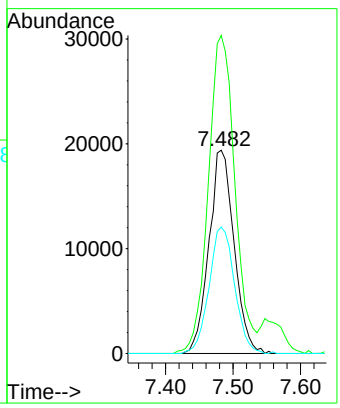
Tgt Ion: 96 Resp: 50200

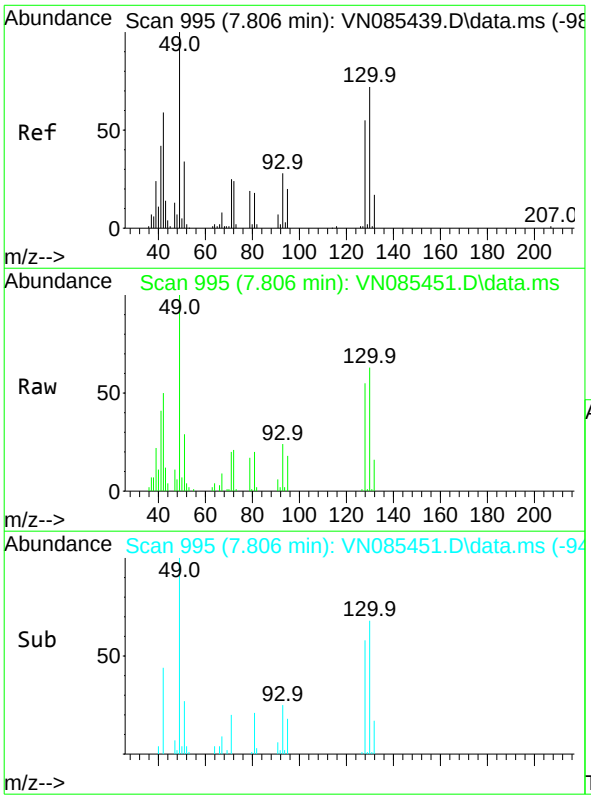
Ion	Ratio	Lower	Upper
96	100		
61	165.3	0.0	311.8
98	63.3	0.0	126.0

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

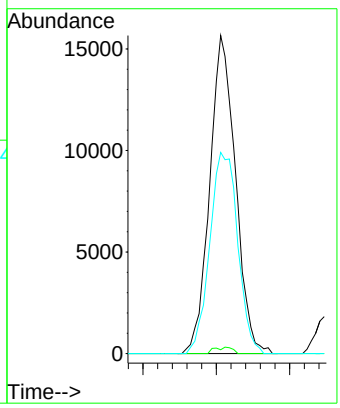


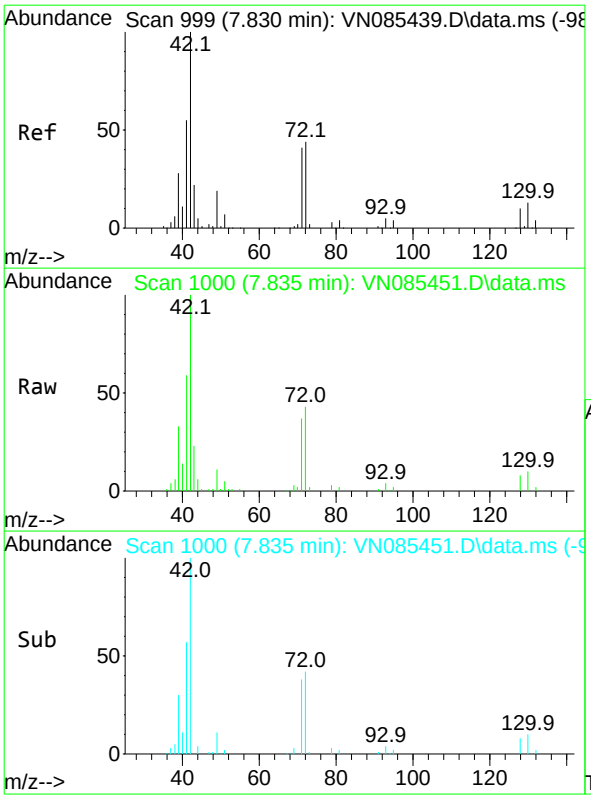


#28
Bromochloromethane
Concen: 18.460 ug/l
RT: 7.806 min Scan# 995
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 49 Resp: 38238

Ion	Ratio	Lower	Upper
49	100		
129	0.7	0.0	4.4
130	68.4	55.0	82.4

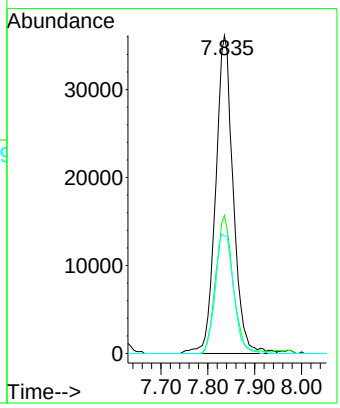




#29
Tetrahydrofuran
Concen: 102.217 ug/l
RT: 7.835 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 42 Resp: 93959

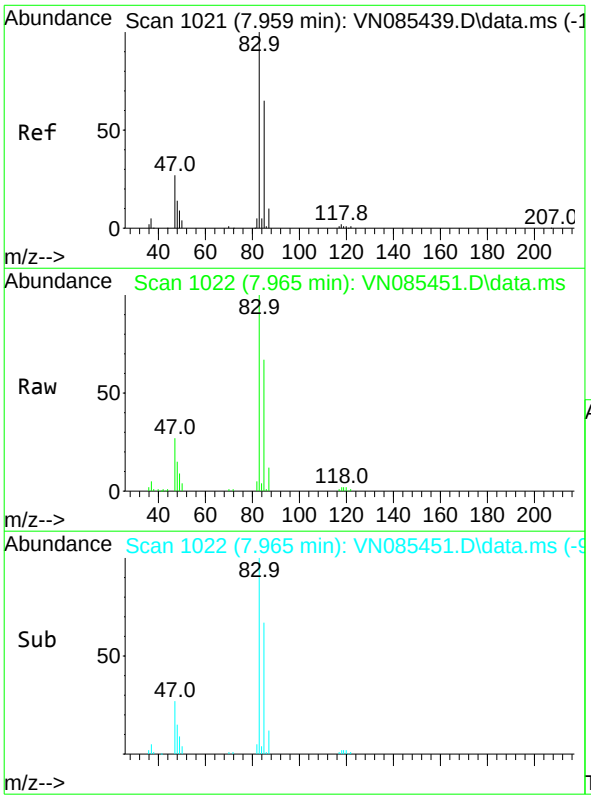
Ion	Ratio	Lower	Upper
42	100		
72	42.2	34.2	51.2
71	39.3	32.5	48.7



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Manual Integrations
APPROVED

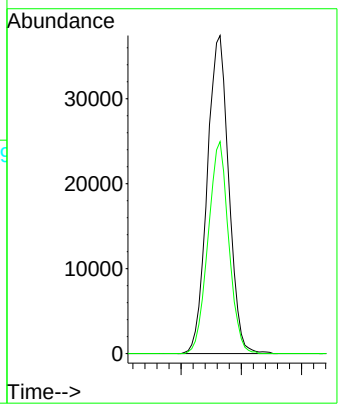
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

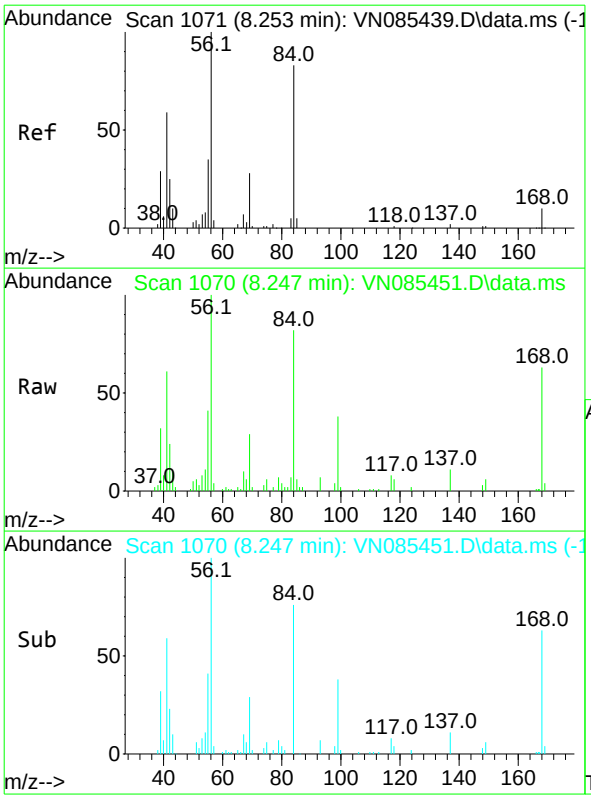


#30
Chloroform
Concen: 20.149 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. 0.006 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 83 Resp: 92715

Ion	Ratio	Lower	Upper
83	100		
85	66.6	51.8	77.6

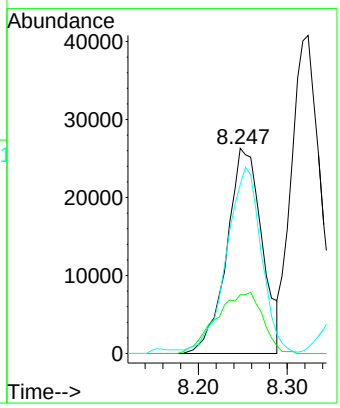




#31
Cyclohexane
Concen: 18.672 ug/l
RT: 8.247 min Scan# 10
Delta R.T. -0.006 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 56 Resp: 72255

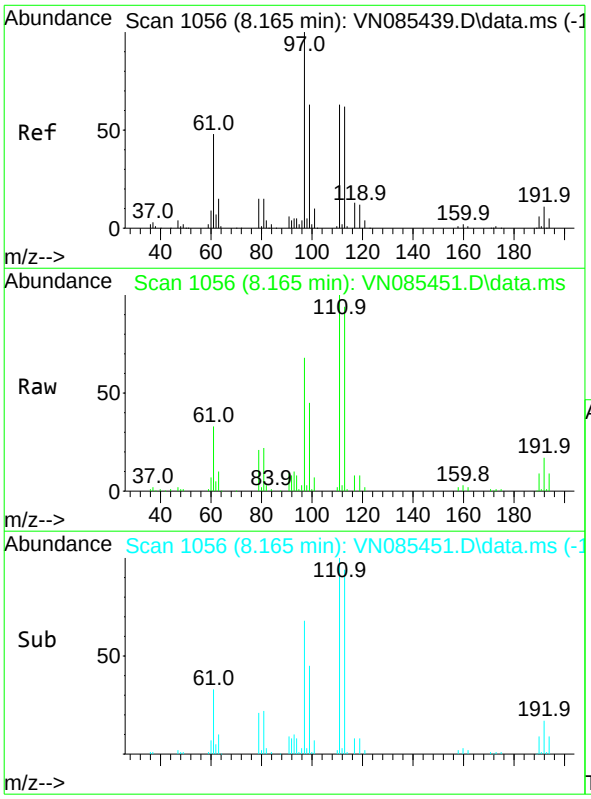
Ion	Ratio	Lower	Upper
56	100		
69	28.7	22.2	33.4
84	80.4	66.4	99.6



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Manual Integrations
APPROVED

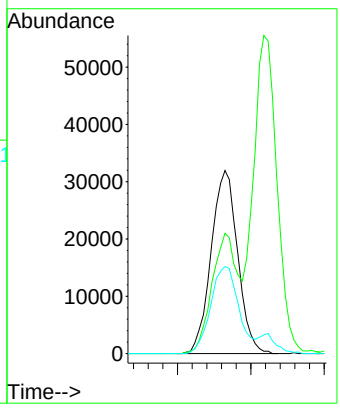
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

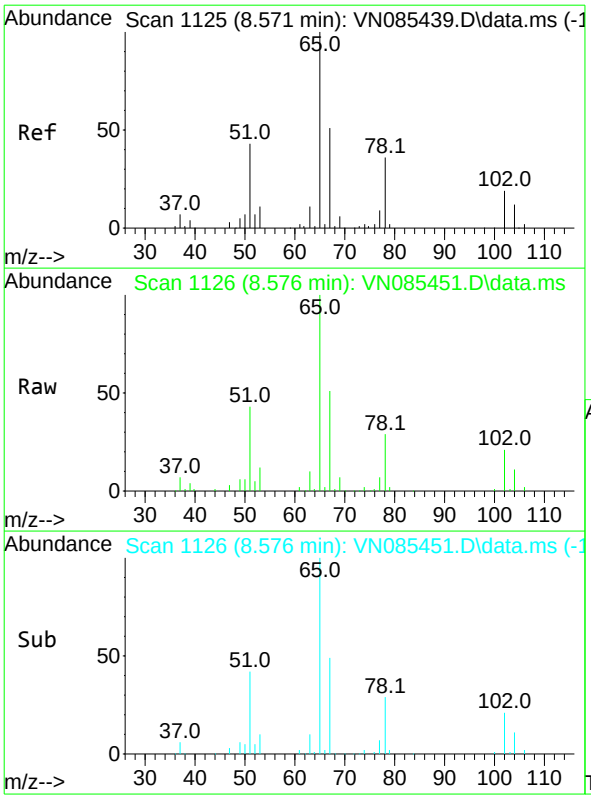


#32
1,1,1-Trichloroethane
Concen: 19.867 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 97 Resp: 80190

Ion	Ratio	Lower	Upper
97	100		
99	64.5	49.8	74.6
61	50.6	41.4	62.2

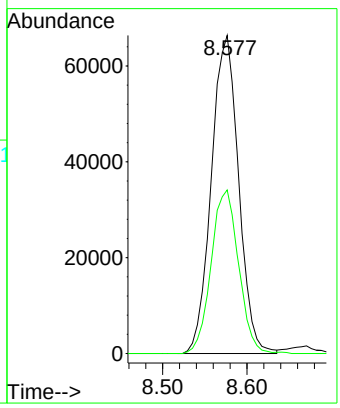




#33
1,2-Dichloroethane-d4
Concen: 48.941 ug/l
RT: 8.576 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 65 Resp: 149231

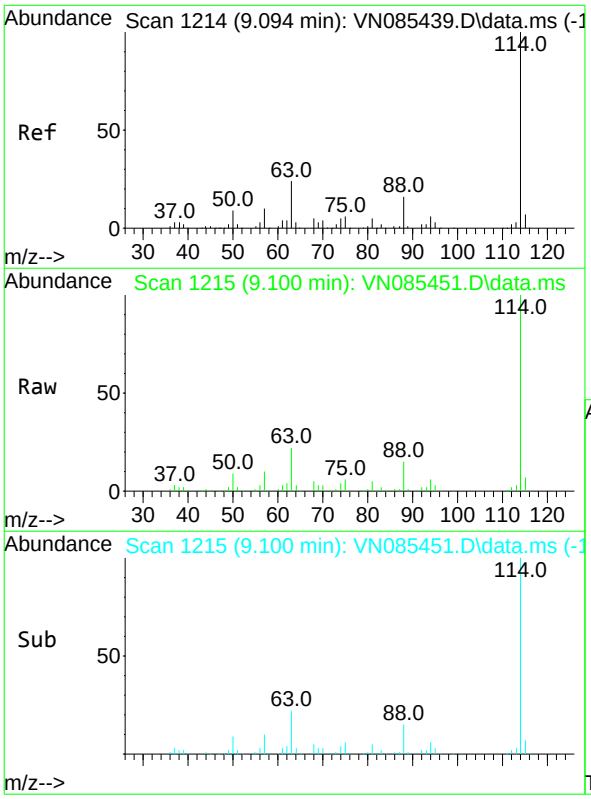
Ion	Ratio	Lower	Upper
65	100		
67	51.7	0.0	101.6



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Manual Integrations APPROVED

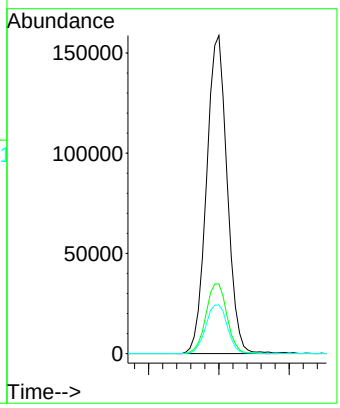
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

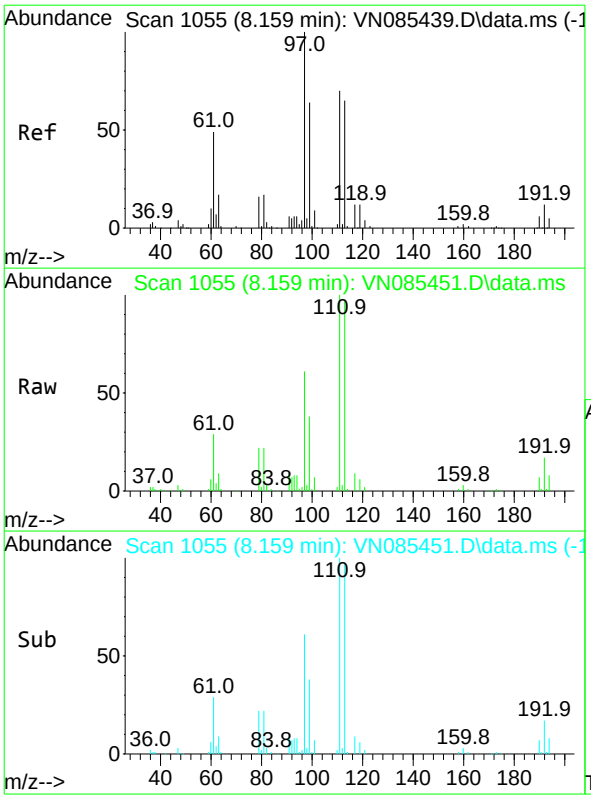


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.006 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion:114 Resp: 323122

Ion	Ratio	Lower	Upper
114	100		
63	21.9	0.0	47.6
88	15.3	0.0	32.6





#35
Dibromofluoromethane
Concen: 49.259 ug/l
RT: 8.159 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

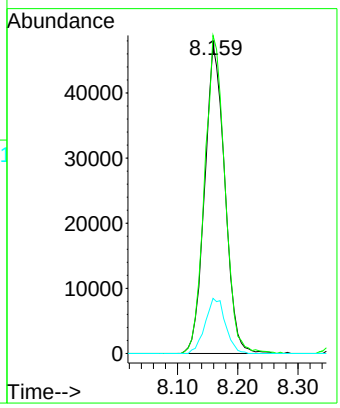
Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

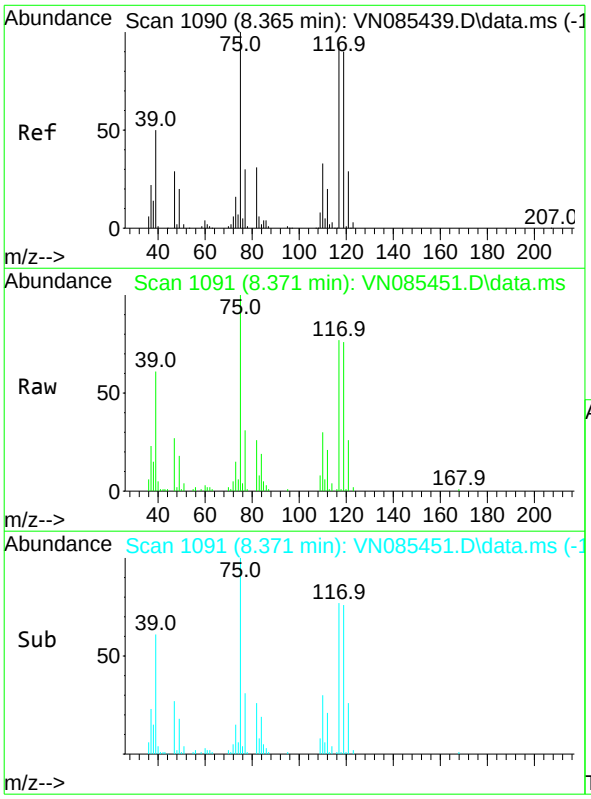
Tgt Ion:113 Resp: 110423

Ion	Ratio	Lower	Upper
113	100		
111	103.1	82.7	124.1
192	17.9	14.3	21.5

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

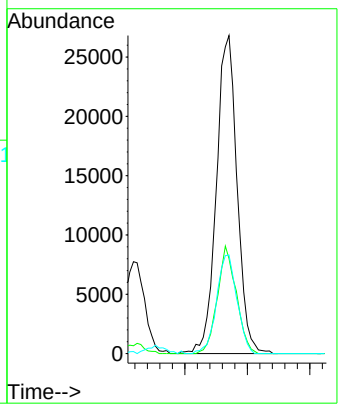


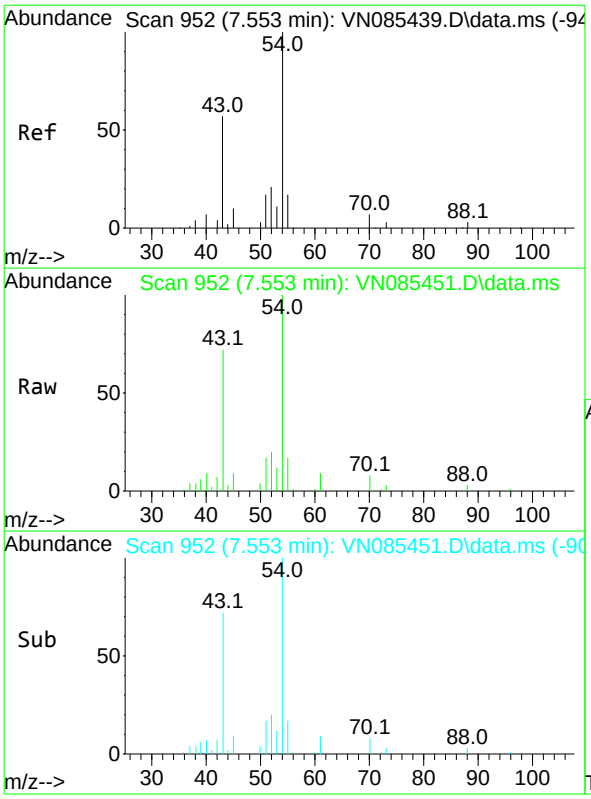


#36
1,1-Dichloropropene
Concen: 19.650 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. 0.006 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 75 Resp: 61822

Ion	Ratio	Lower	Upper
75	100		
110	30.8	16.5	49.5
77	30.6	24.4	36.6





#37
Ethyl Acetate
Concen: 18.795 ug/l
RT: 7.553 min Scan# 95
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

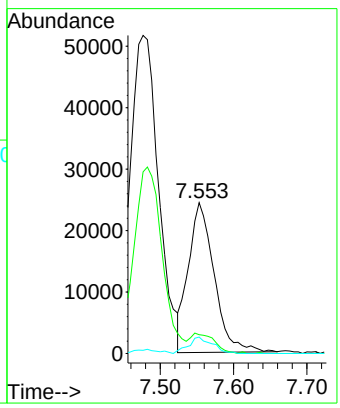
Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

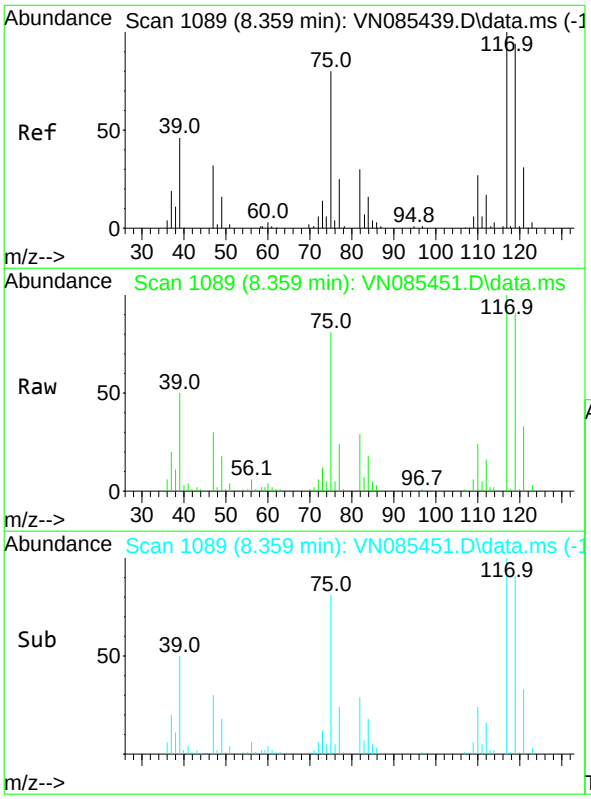
Tgt Ion: 43 Resp: 59684

Ion	Ratio	Lower	Upper
43	100		
61	12.3	10.9	16.3
70	10.1	7.5	11.3

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

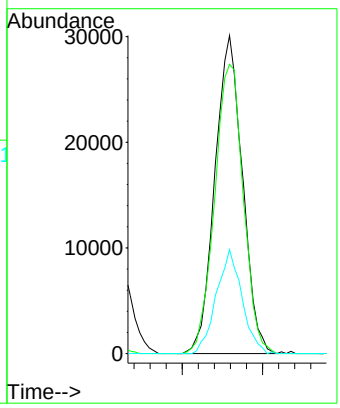


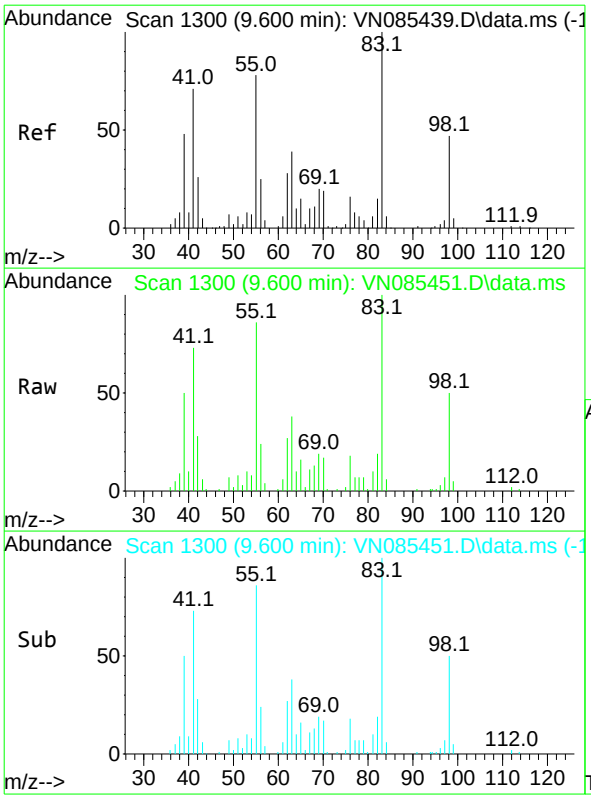


#38
Carbon Tetrachloride
Concen: 19.911 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion:117 Resp: 71714

Ion	Ratio	Lower	Upper
117	100		
119	91.0	75.4	113.2
121	32.7	24.6	37.0

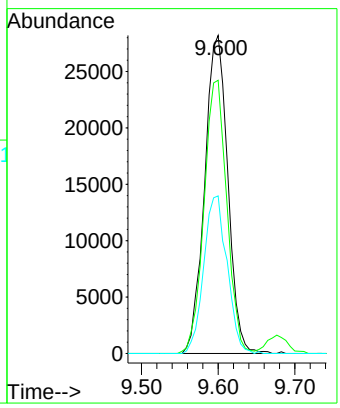




#39
Methylcyclohexane
Concen: 20.011 ug/l
RT: 9.600 min Scan# 13
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 83 Resp: 59161

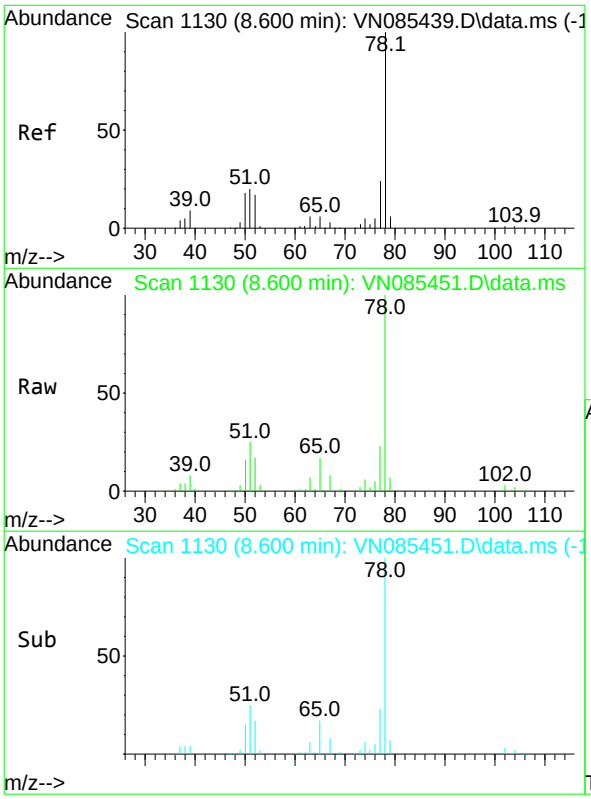
Ion	Ratio	Lower	Upper
83	100		
55	85.9	62.6	94.0
98	49.6	37.7	56.5



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Manual Integrations APPROVED

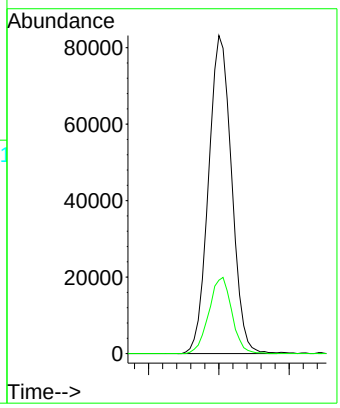
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

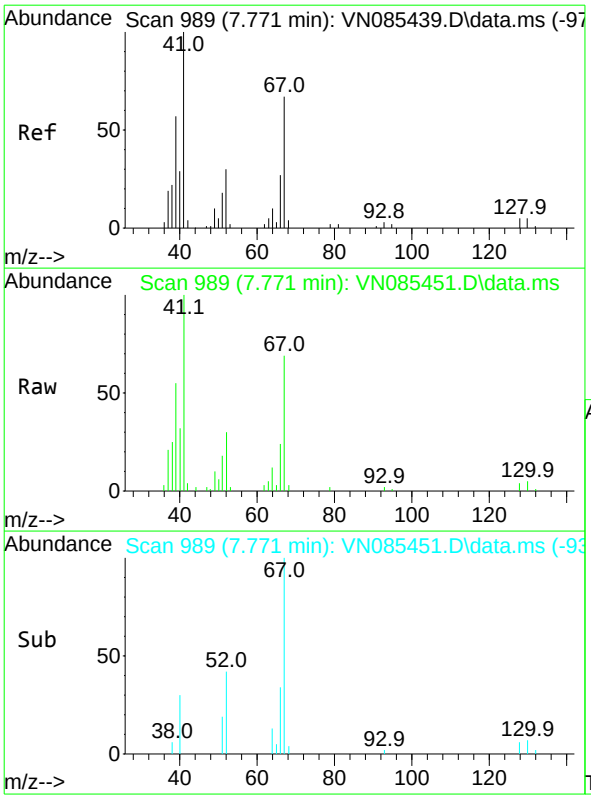


#40
Benzene
Concen: 20.061 ug/l
RT: 8.600 min Scan# 1130
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 78 Resp: 189640

Ion	Ratio	Lower	Upper
78	100		
77	23.1	19.0	28.6

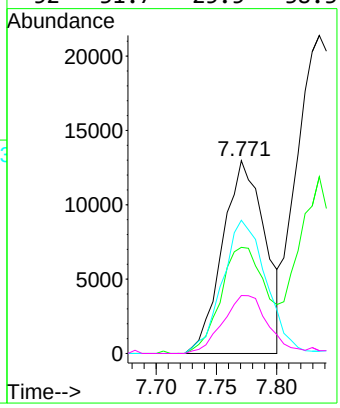




#41
Methacrylonitrile
Concen: 19.288 ug/l
RT: 7.771 min Scan# 98
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 41 Resp: 31866

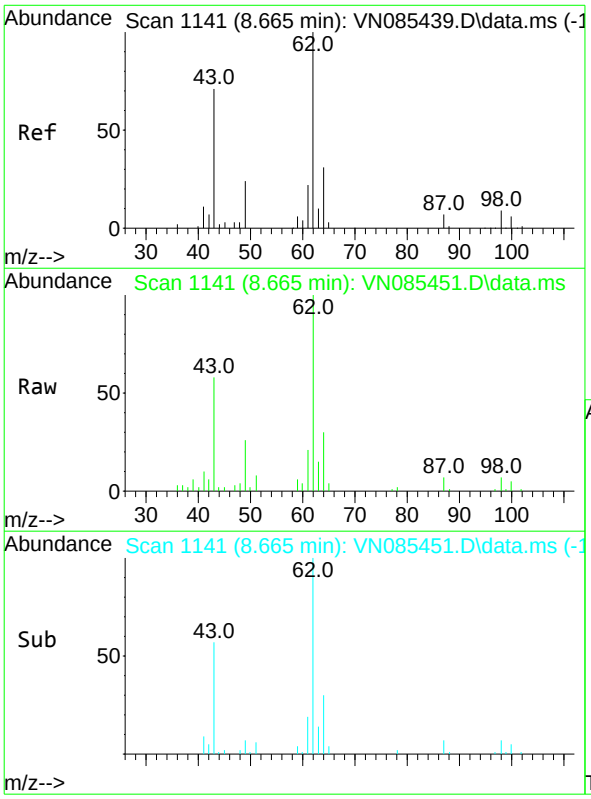
Ion	Ratio	Lower	Upper
41	100		
39	58.3	46.0	69.0
67	71.3	57.4	86.2
52	31.7	25.5	38.3



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Manual Integrations
APPROVED

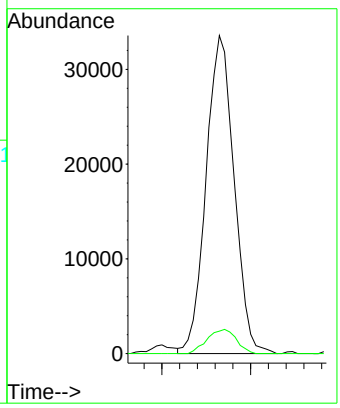
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

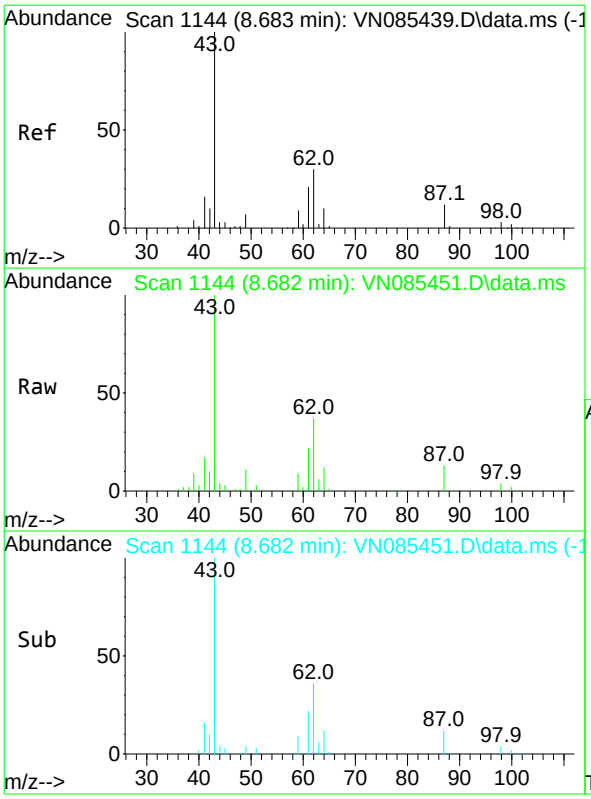


#42
1,2-Dichloroethane
Concen: 20.692 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 62 Resp: 73669

Ion	Ratio	Lower	Upper
62	100		
98	7.9	0.0	17.0

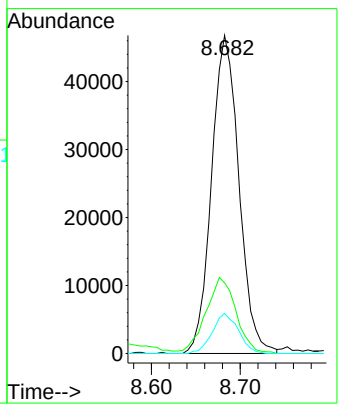




#43
Isopropyl Acetate
Concen: 19.708 ug/l
RT: 8.682 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 43 Resp: 100283

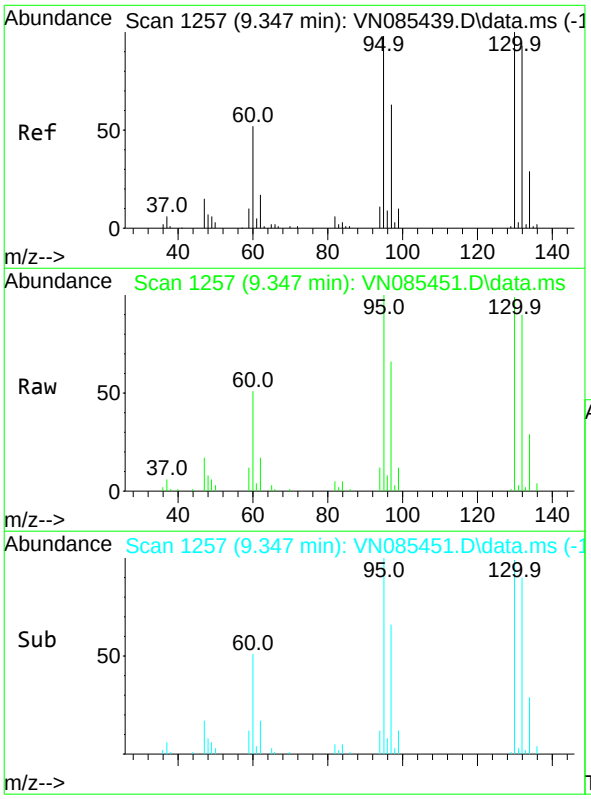
Ion	Ratio	Lower	Upper
43	100		
61	26.5	20.7	31.1
87	12.0	9.8	14.8



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Manual Integrations
APPROVED

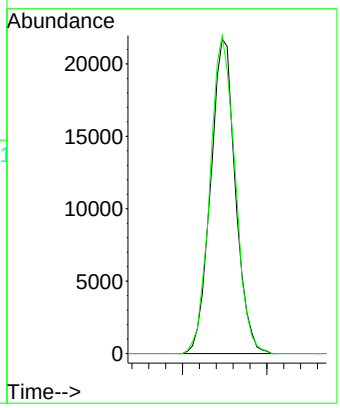
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

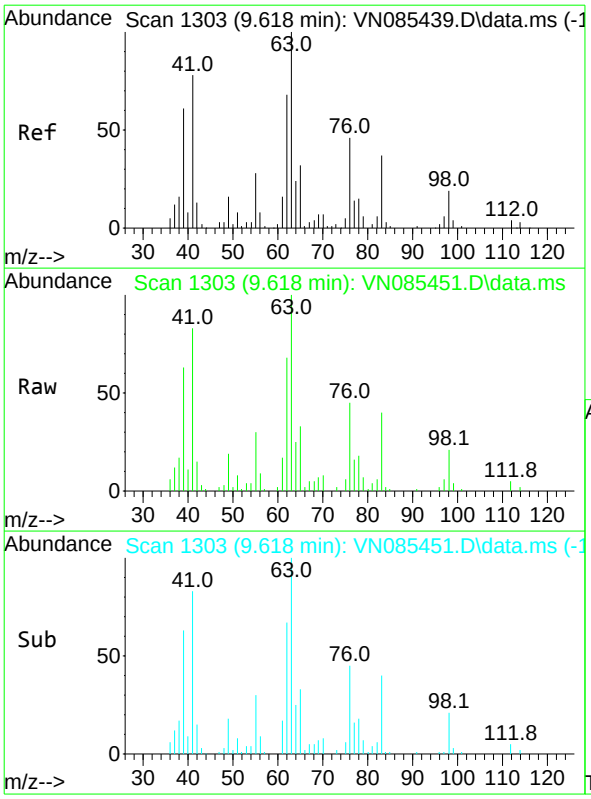


#44
Trichloroethene
Concen: 20.145 ug/l
RT: 9.347 min Scan# 1257
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion:130 Resp: 44329

Ion	Ratio	Lower	Upper
130	100		
95	101.2	0.0	195.8

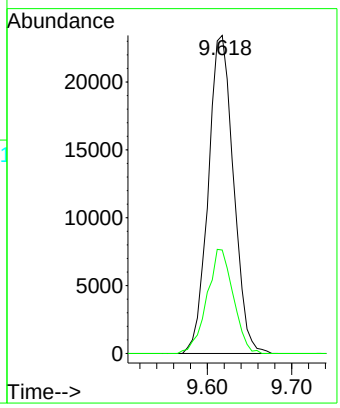




#45
1,2-Dichloropropane
Concen: 20.167 ug/l
RT: 9.618 min Scan# 13
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 63 Resp: 48696

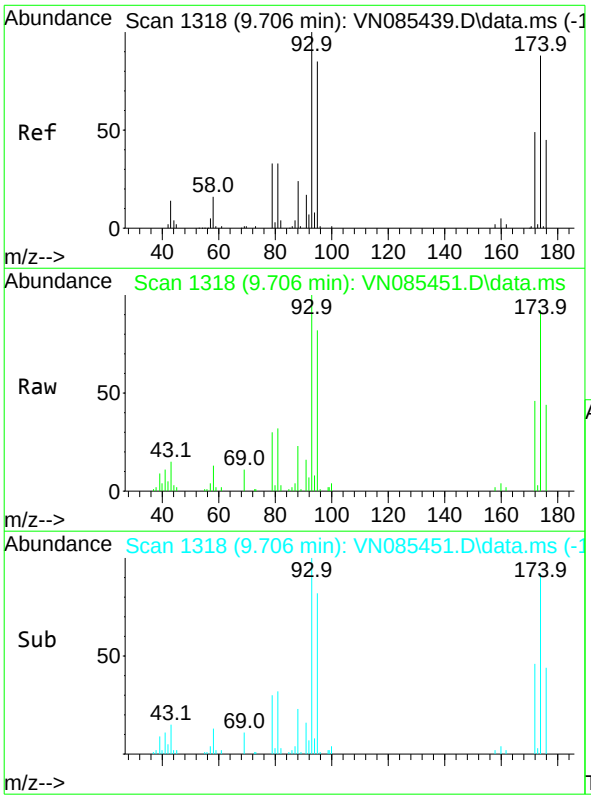
Ion	Ratio	Lower	Upper
63	100		
65	32.5	25.6	38.4



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Manual Integrations APPROVED

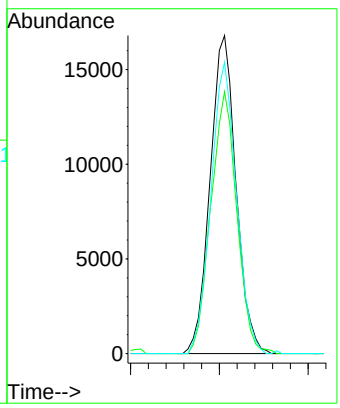
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

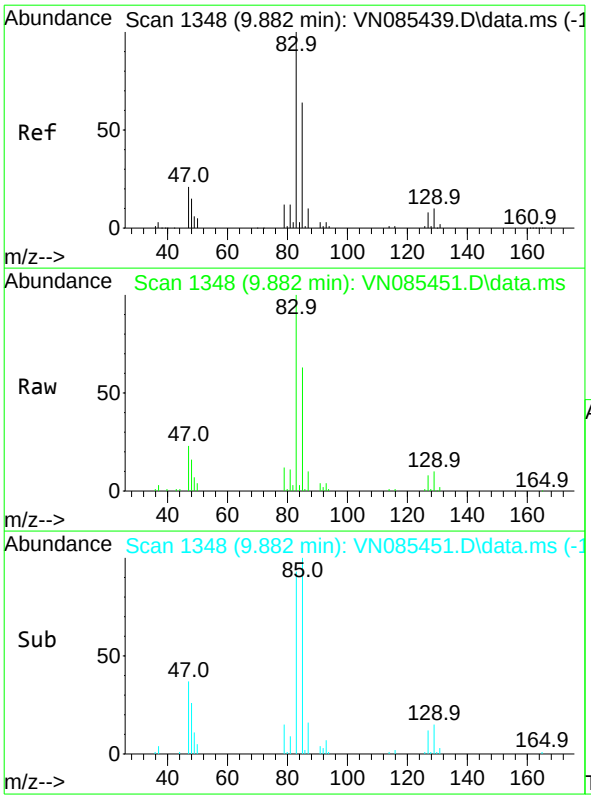


#46
Dibromomethane
Concen: 19.561 ug/l
RT: 9.706 min Scan# 1318
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 93 Resp: 34080

Ion	Ratio	Lower	Upper
93	100		
95	82.2	64.7	97.1
174	90.2	69.0	103.4

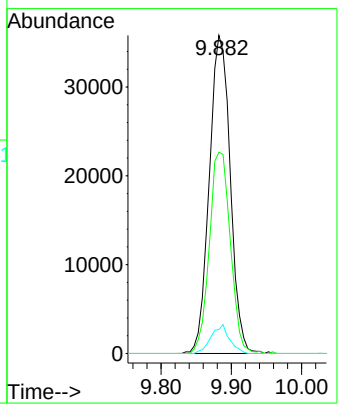




#47
Bromodichloromethane
Concen: 20.909 ug/l
RT: 9.882 min Scan# 13
Delta R.T. 0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 83 Resp: 74218

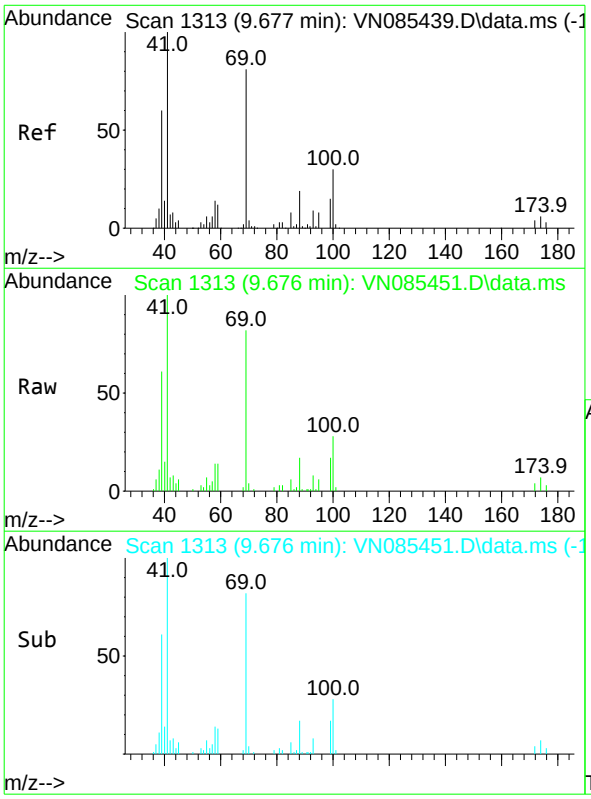
Ion	Ratio	Lower	Upper
83	100		
85	63.3	51.2	76.8
127	7.5	6.5	9.7



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Manual Integrations
APPROVED

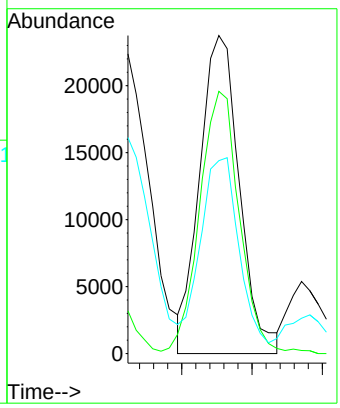
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

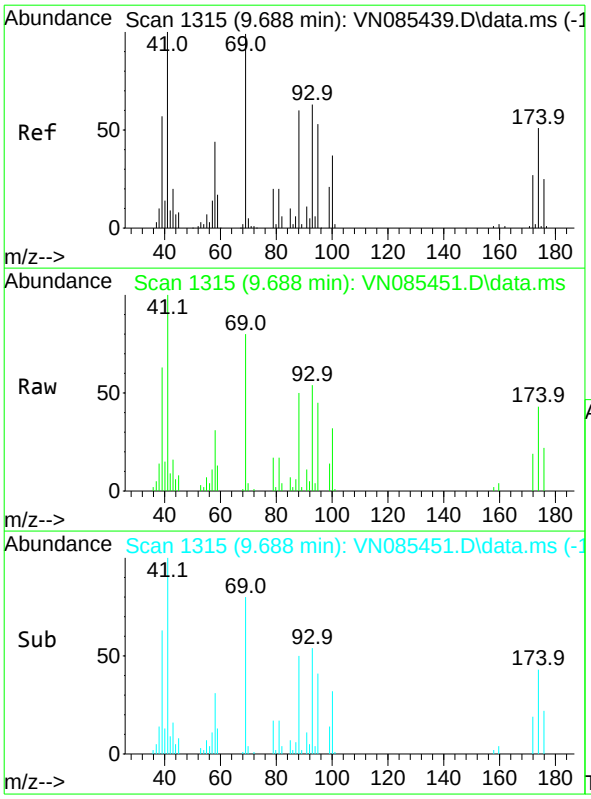


#48
Methyl methacrylate
Concen: 20.374 ug/l
RT: 9.676 min Scan# 1313
Delta R.T. -0.001 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 41 Resp: 46655

Ion	Ratio	Lower	Upper
41	100		
69	82.9	64.7	97.1
39	61.1	49.0	73.6

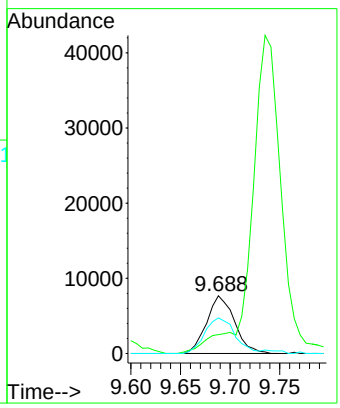




#49
1,4-Dioxane
Concen: 388.550 ug/l
RT: 9.688 min Scan# 13
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 88 Resp: 14983

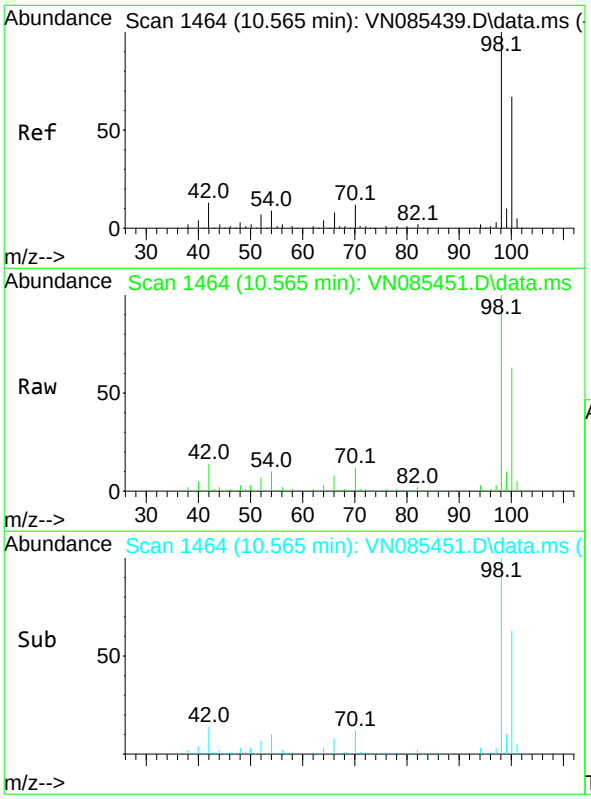
Ion	Ratio	Lower	Upper
88	100		
43	0.0	26.6	39.8#
58	66.8	59.5	89.3



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Manual Integrations
APPROVED

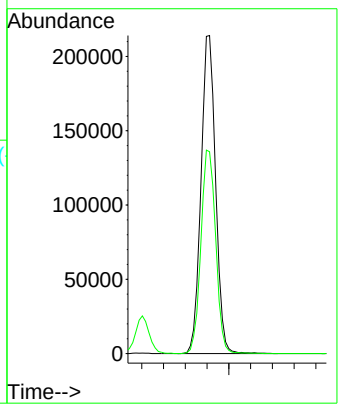
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

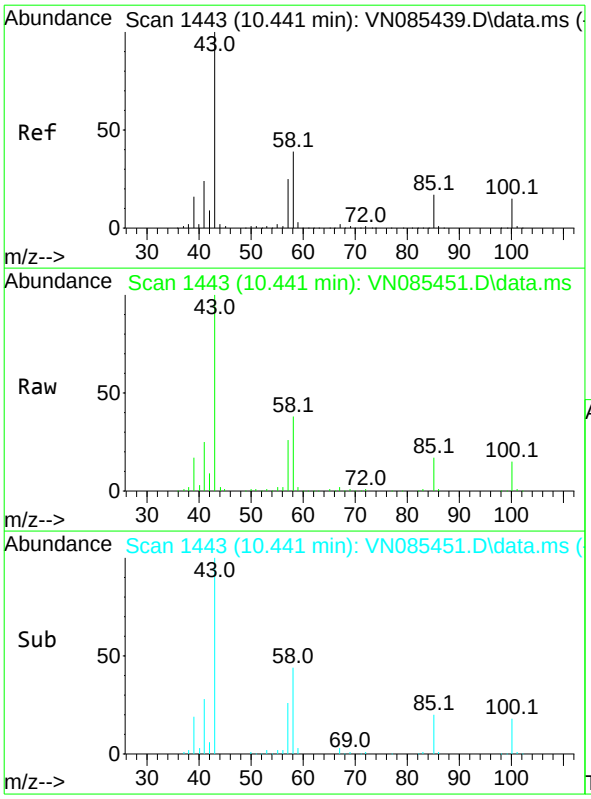


#50
Toluene-d8
Concen: 50.102 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 98 Resp: 399040

Ion	Ratio	Lower	Upper
98	100		
100	64.8	52.2	78.4

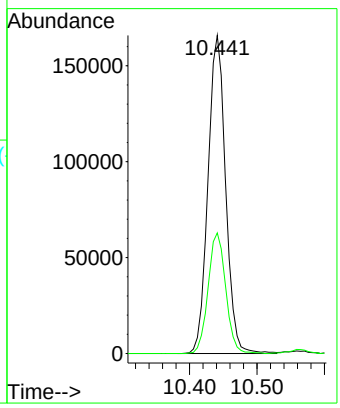




#51
4-Methyl-2-Pentanone
Concen: 101.808 ug/l
RT: 10.441 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 43 Resp: 300611

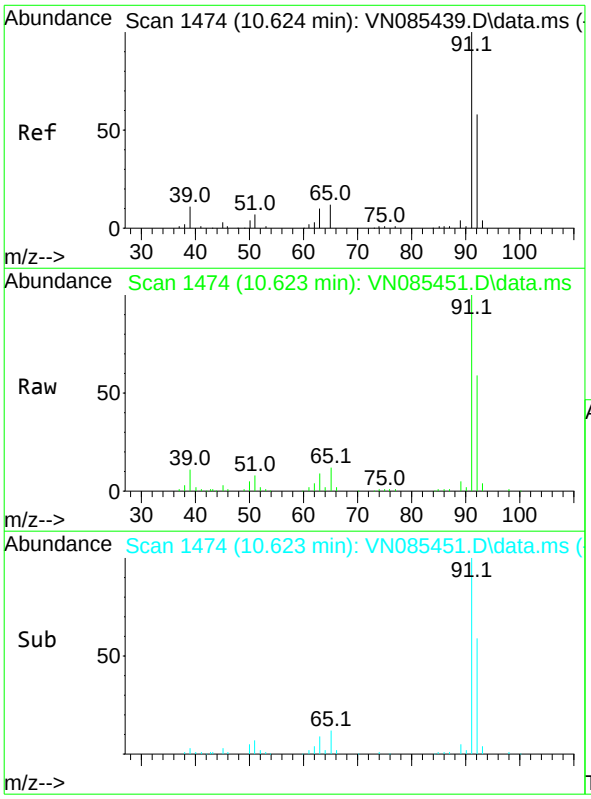
Ion	Ratio	Lower	Upper
43	100		
58	37.8	30.5	45.7



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Manual Integrations
APPROVED

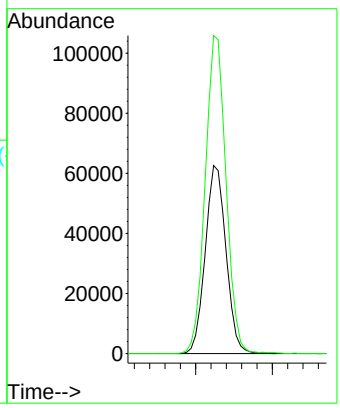
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

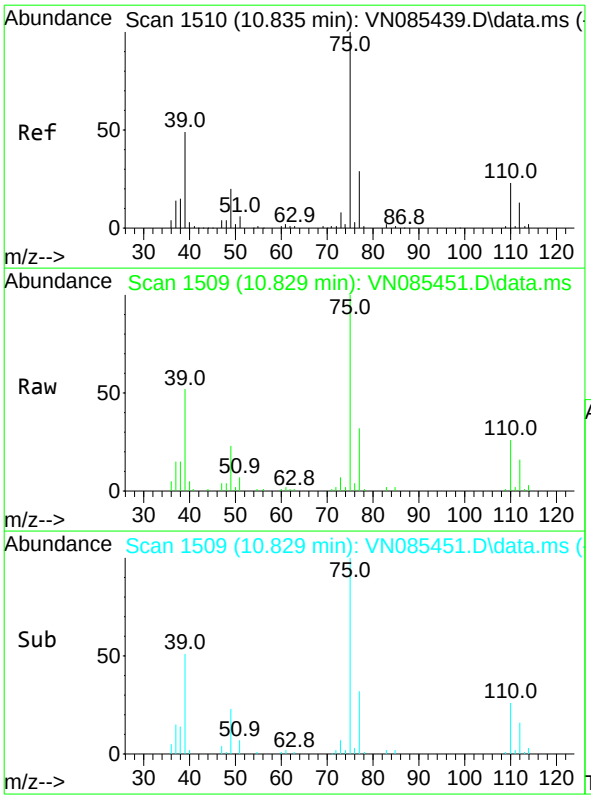


#52
Toluene
Concen: 21.476 ug/l
RT: 10.623 min Scan# 1474
Delta R.T. -0.001 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 92 Resp: 117631

Ion	Ratio	Lower	Upper
92	100		
91	169.9	139.2	208.8

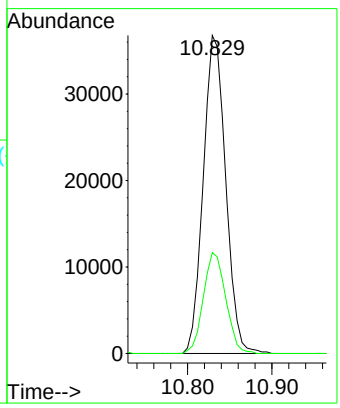




#53
t-1,3-Dichloropropene
Concen: 20.276 ug/l
RT: 10.829 min Scan# 15
Delta R.T. -0.006 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 75 Resp: 68014

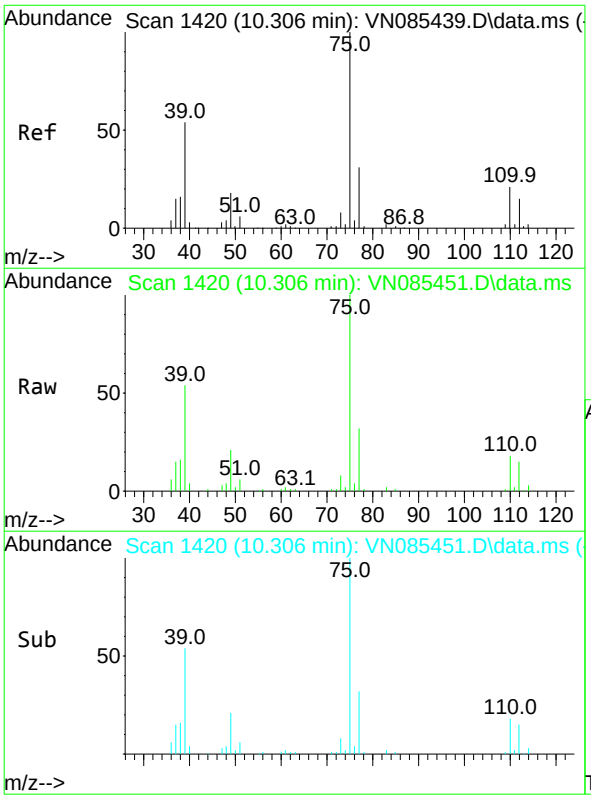
Ion	Ratio	Lower	Upper
75	100		
77	31.7	23.5	35.3



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Manual Integrations
APPROVED

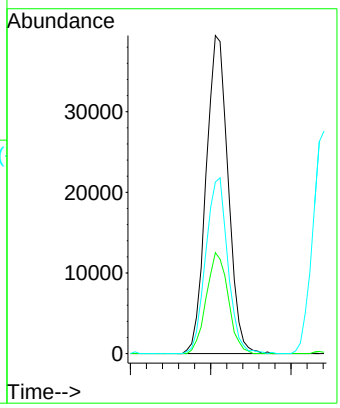
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

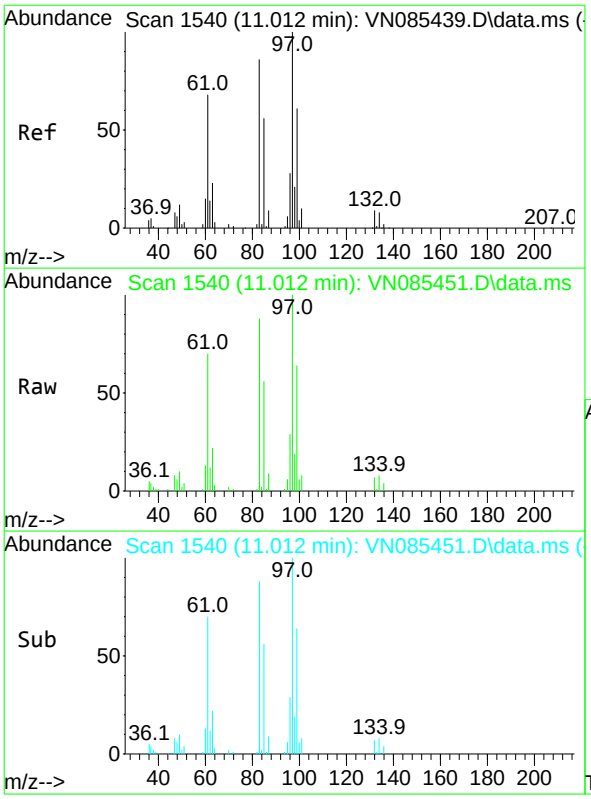


#54
cis-1,3-Dichloropropene
Concen: 20.973 ug/l
RT: 10.306 min Scan# 1420
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 75 Resp: 75146

Ion	Ratio	Lower	Upper
75	100		
77	31.7	25.0	37.4
39	53.9	43.1	64.7

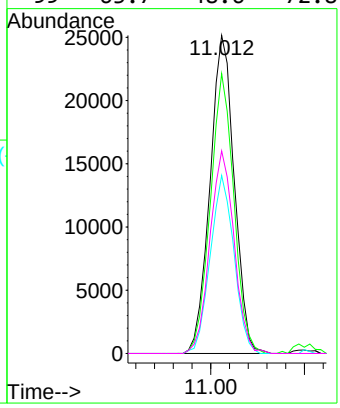




#55
1,1,2-Trichloroethane
Concen: 20.861 ug/l
RT: 11.012 min Scan# 15
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 97 Resp: 45220

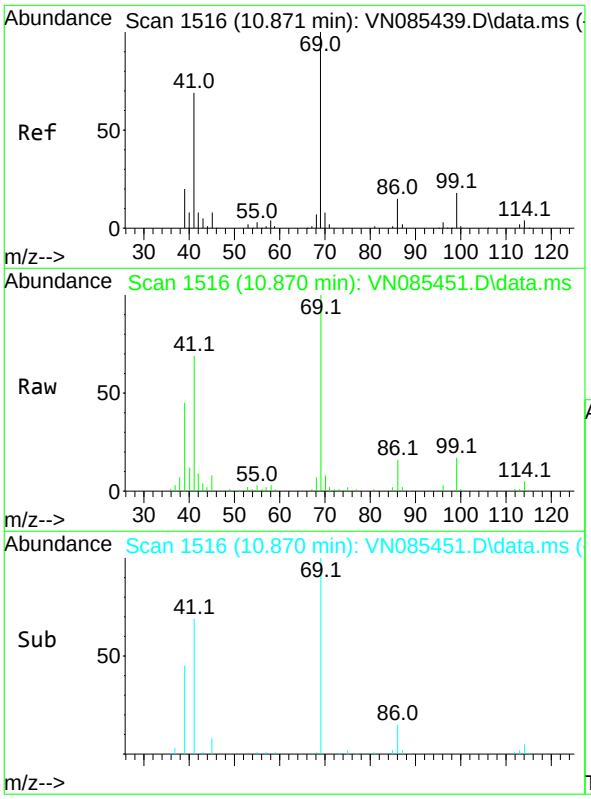
Ion	Ratio	Lower	Upper
97	100		
83	88.0	69.0	103.6
85	55.9	44.6	66.8
99	63.7	48.6	72.8



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Manual Integrations
APPROVED

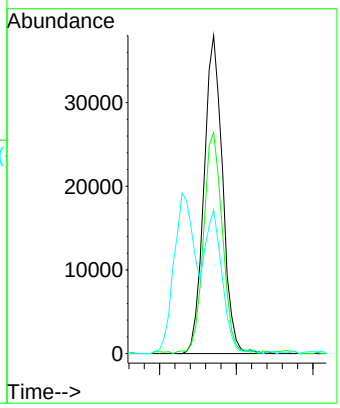
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

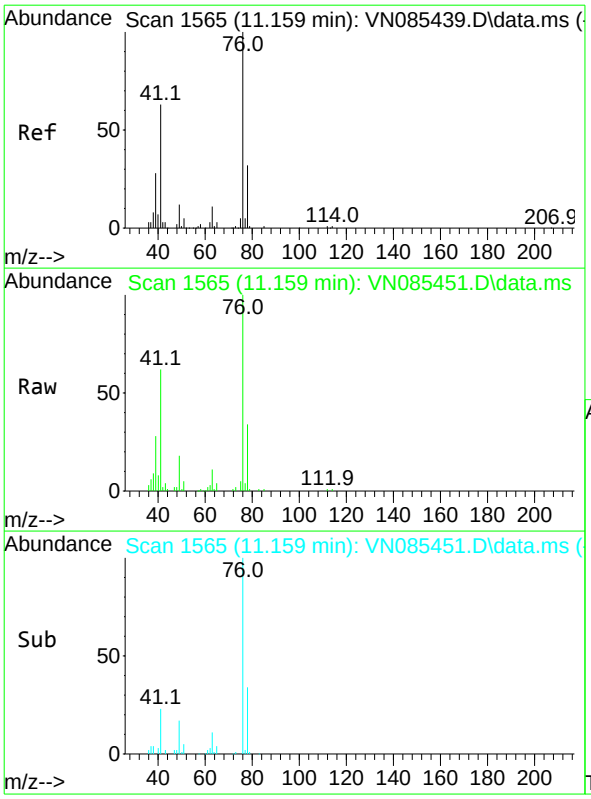


#56
Ethyl methacrylate
Concen: 18.769 ug/l
RT: 10.870 min Scan# 1516
Delta R.T. -0.001 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 69 Resp: 63954

Ion	Ratio	Lower	Upper
69	100		
41	71.0	54.6	82.0
39	40.3	32.4	48.6

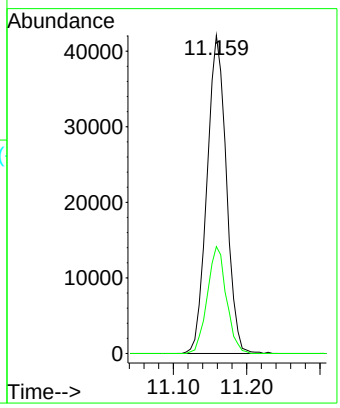




#57
1,3-Dichloropropane
Concen: 20.424 ug/l
RT: 11.159 min Scan# 15
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 76 Resp: 76979

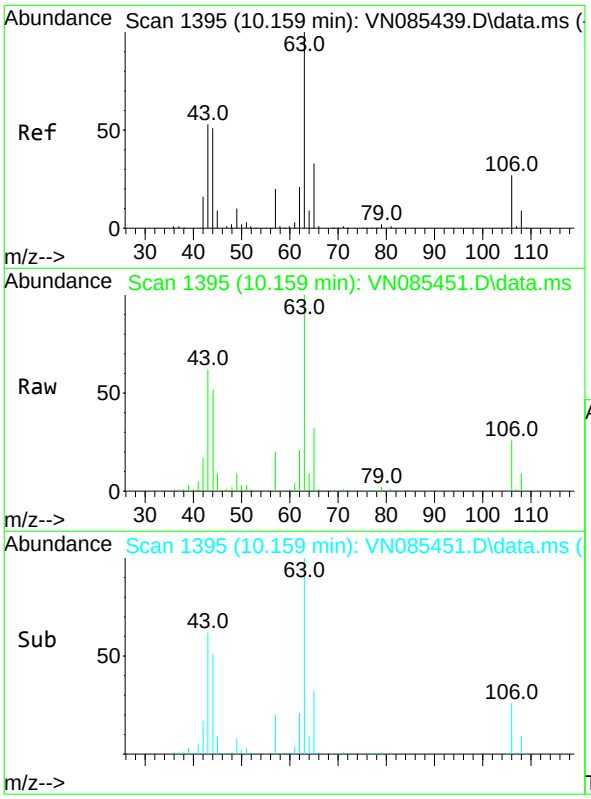
Ion	Ratio	Lower	Upper
76	100		
78	33.2	25.6	38.4



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Manual Integrations
APPROVED

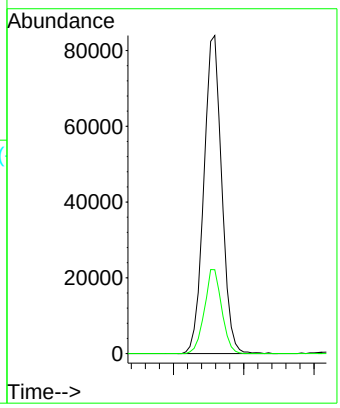
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

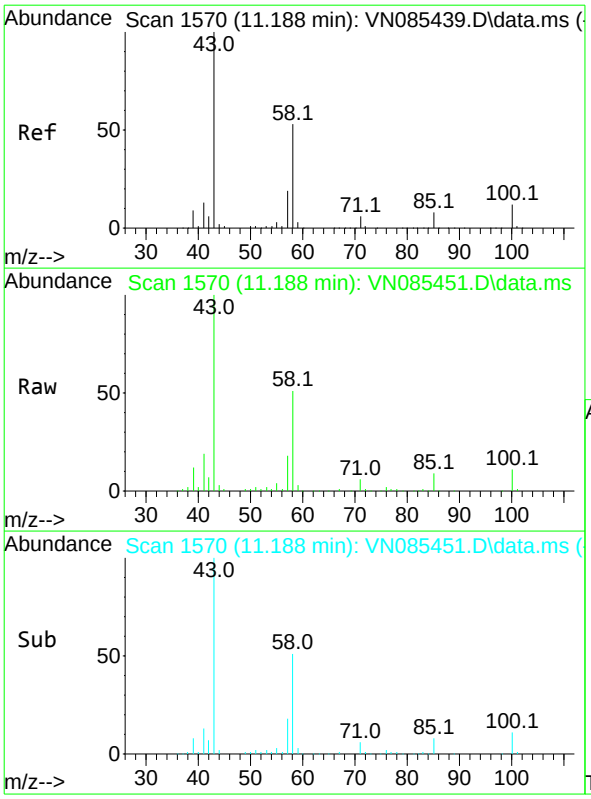


#58
2-Chloroethyl Vinyl ether
Concen: 107.782 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 63 Resp: 148262

Ion	Ratio	Lower	Upper
63	100		
106	25.5	21.6	32.4

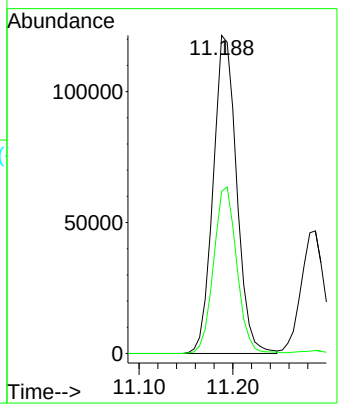




#59
2-Hexanone
Concen: 101.890 ug/l
RT: 11.188 min Scan# 15
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 43 Resp: 211689

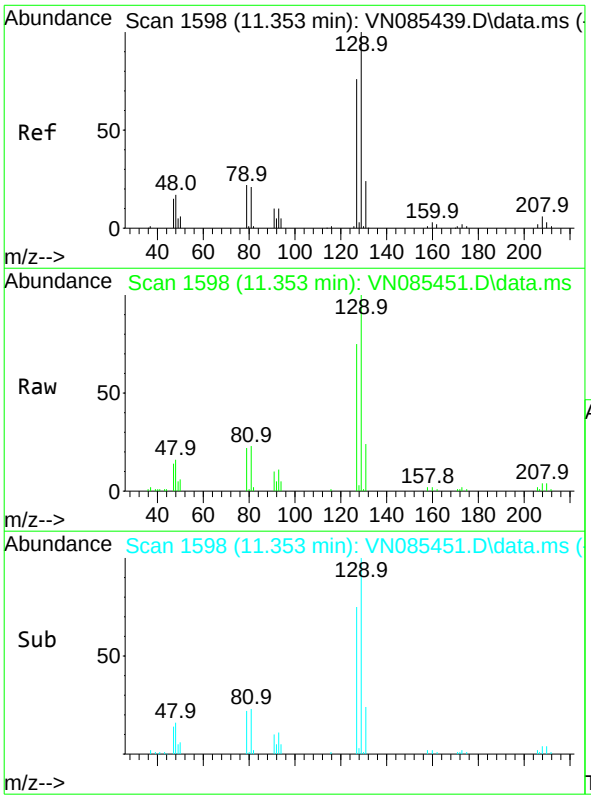
Ion	Ratio	Lower	Upper
43	100		
58	51.5	26.2	78.6



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Manual Integrations
APPROVED

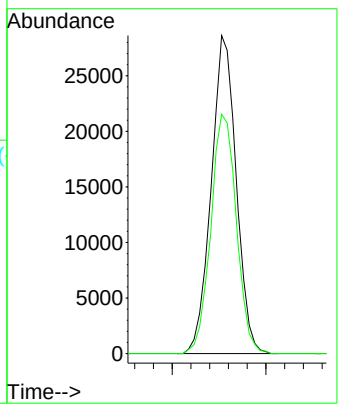
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

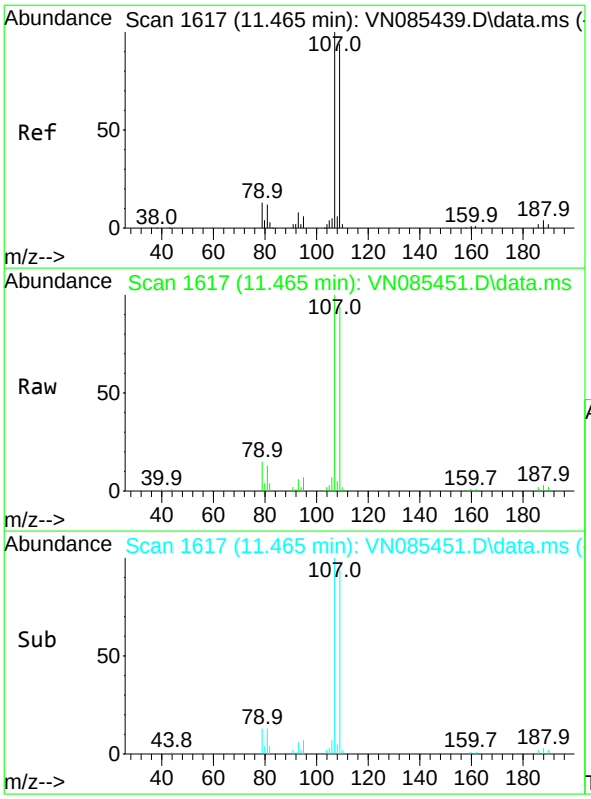


#60
Dibromochloromethane
Concen: 20.236 ug/l
RT: 11.353 min Scan# 1598
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion:129 Resp: 52957

Ion	Ratio	Lower	Upper
129	100		
127	76.8	38.6	115.8

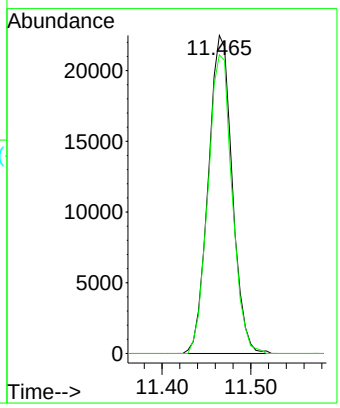




#61
1,2-Dibromoethane
Concen: 19.533 ug/l
RT: 11.465 min Scan# 16
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion:107 Resp: 42146

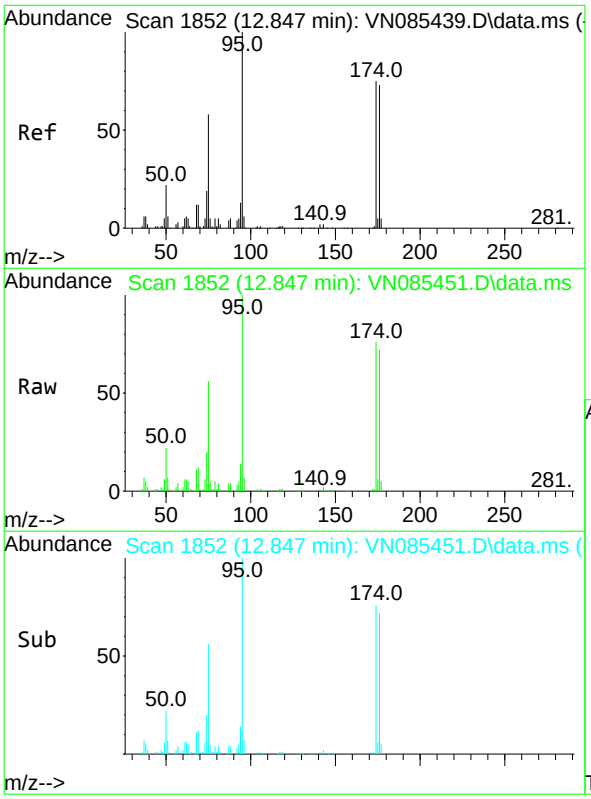
Ion	Ratio	Lower	Upper
107	100		
109	94.7	75.9	113.9



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Manual Integrations
APPROVED

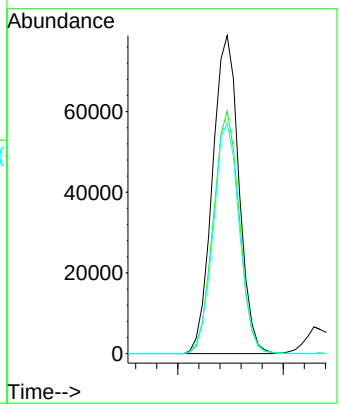
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

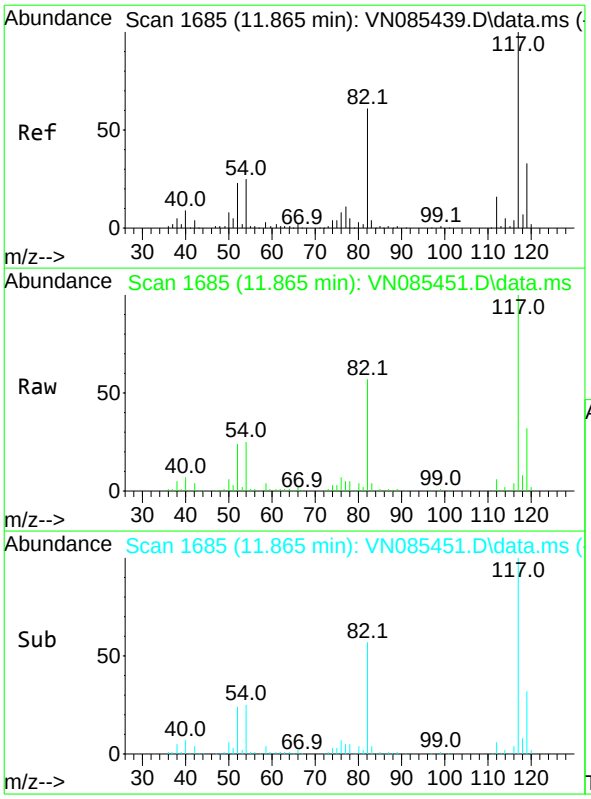


#62
4-Bromofluorobenzene
Concen: 50.364 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 95 Resp: 137216

Ion	Ratio	Lower	Upper
95	100		
174	74.8	0.0	145.0
176	71.6	0.0	142.4

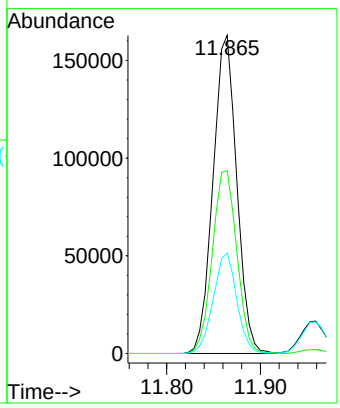




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 16
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion:117 Resp: 286298

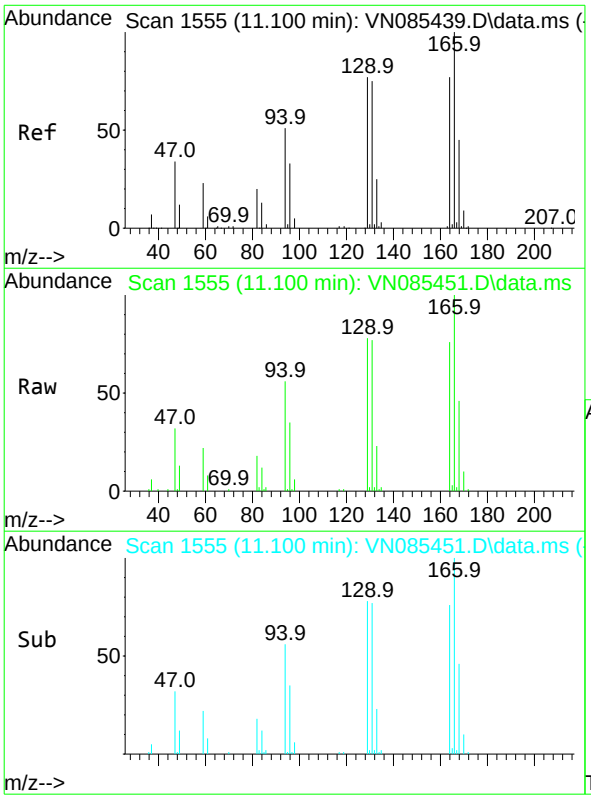
Ion	Ratio	Lower	Upper
117	100		
82	57.5	48.6	72.8
119	31.6	26.6	39.8



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Manual Integrations
APPROVED

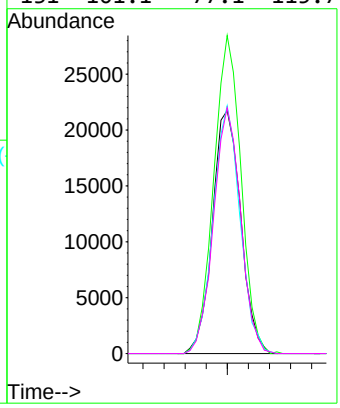
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

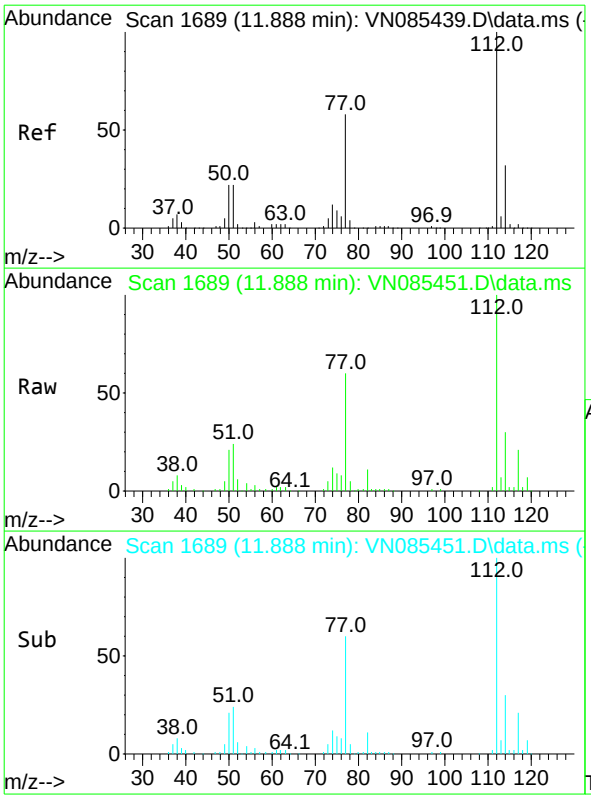


#64
Tetrachloroethene
Concen: 20.740 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion:164 Resp: 40480

Ion	Ratio	Lower	Upper
164	100		
166	130.9	103.4	155.2
129	101.9	79.2	118.8
131	101.1	77.1	115.7

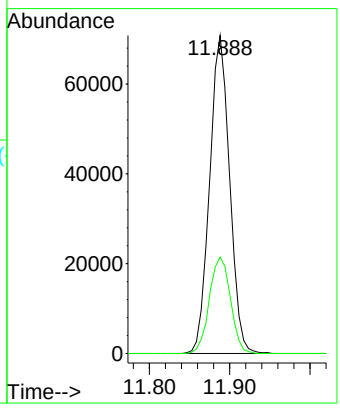




#65
Chlorobenzene
Concen: 19.546 ug/l
RT: 11.888 min Scan# 16
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion:112 Resp: 122590

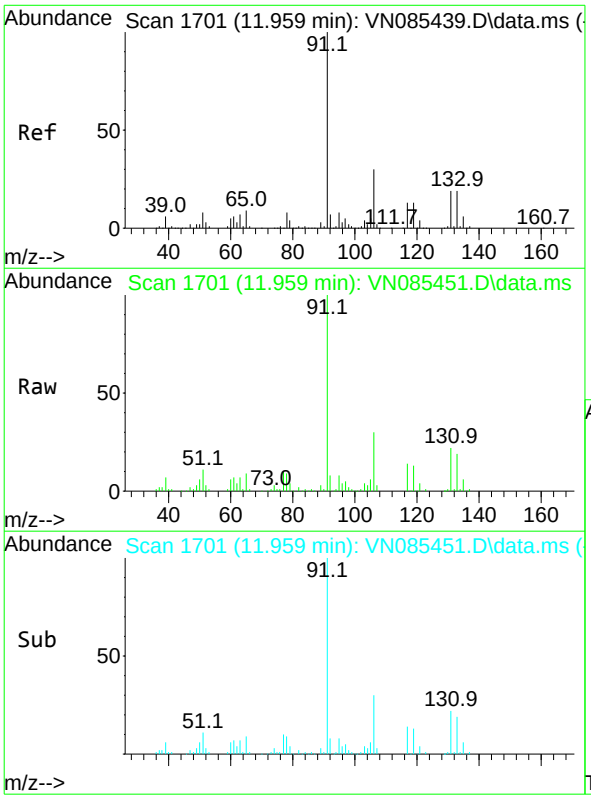
Ion	Ratio	Lower	Upper
112	100		
114	30.3	25.3	37.9



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Manual Integrations APPROVED

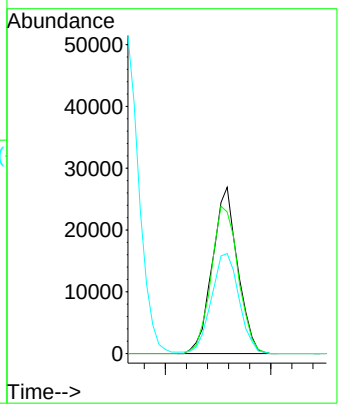
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

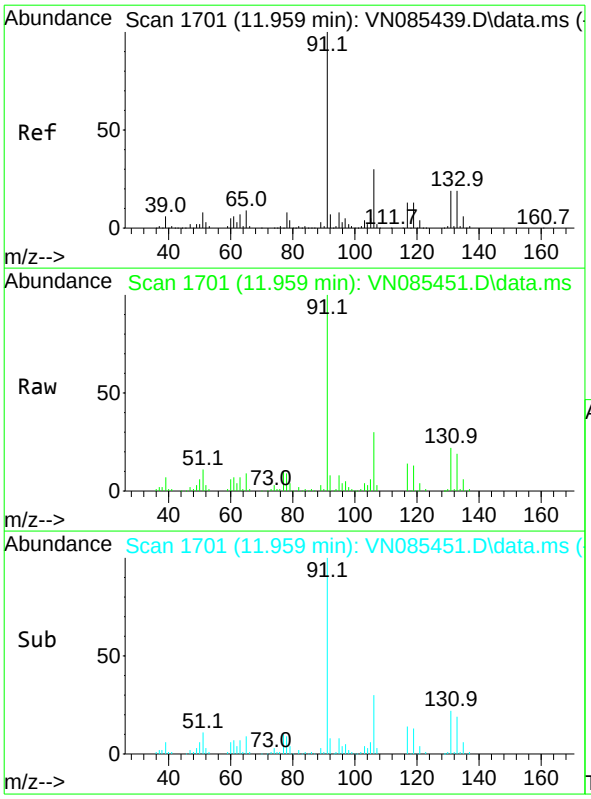


#66
1,1,1,2-Tetrachloroethane
Concen: 19.484 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion:131 Resp: 44850

Ion	Ratio	Lower	Upper
131	100		
133	94.6	47.4	142.3
119	65.9	33.1	99.5

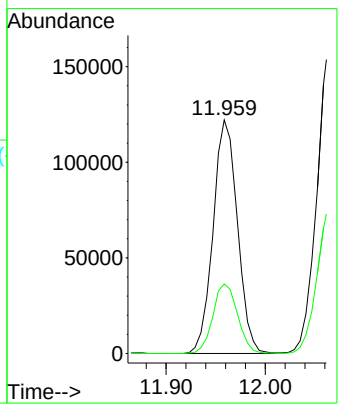




#67
Ethyl Benzene
Concen: 20.381 ug/l
RT: 11.959 min Scan# 17
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 91 Resp: 208196

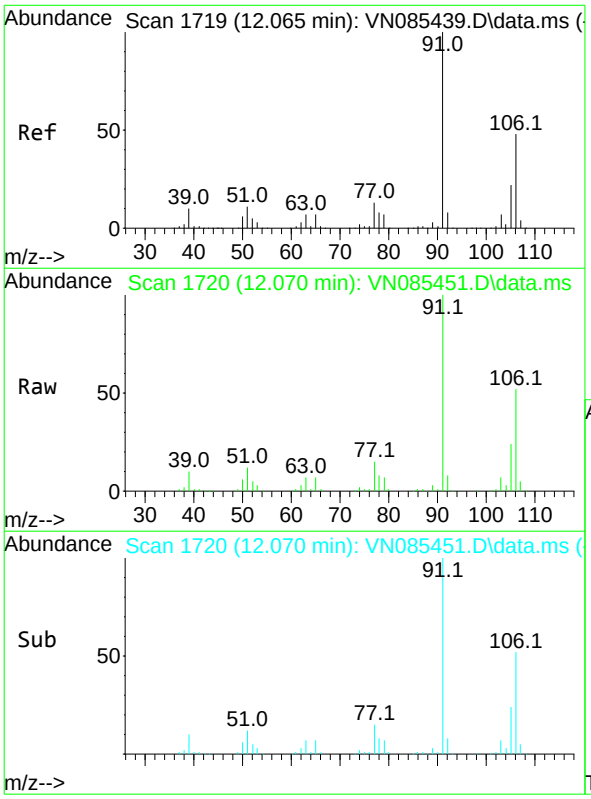
Ion	Ratio	Lower	Upper
91	100		
106	29.8	23.8	35.8



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Manual Integrations APPROVED

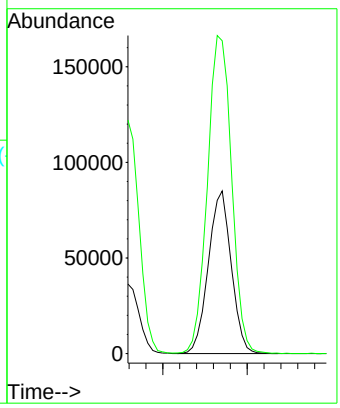
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

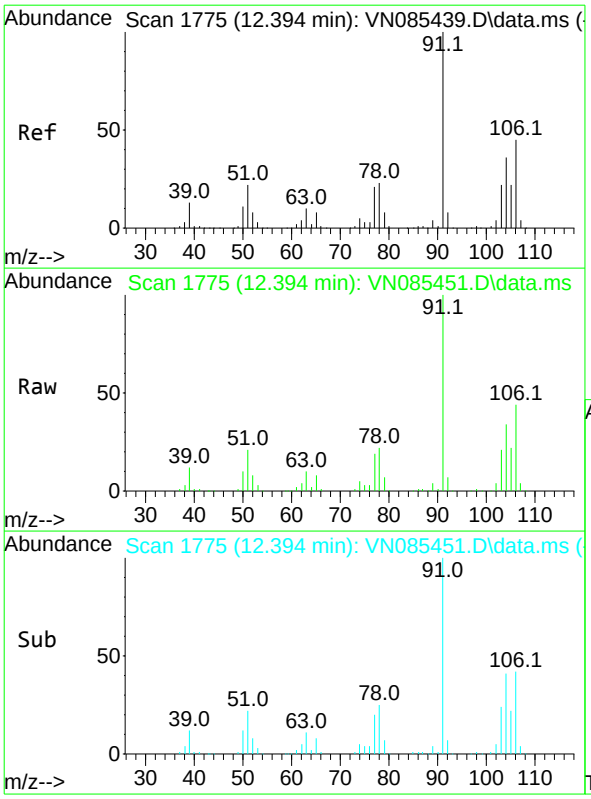


#68
m/p-Xylenes
Concen: 42.515 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. 0.006 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion:106 Resp: 160511

Ion	Ratio	Lower	Upper
106	100		
91	206.6	167.7	251.5

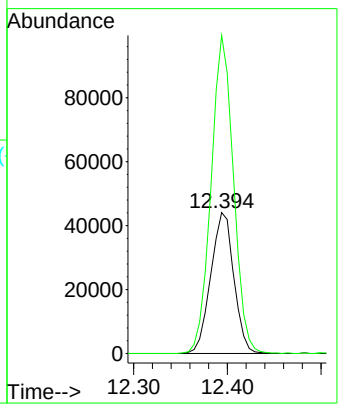




#69
o-Xylene
Concen: 20.928 ug/l
RT: 12.394 min Scan# 17
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion:106 Resp: 75509

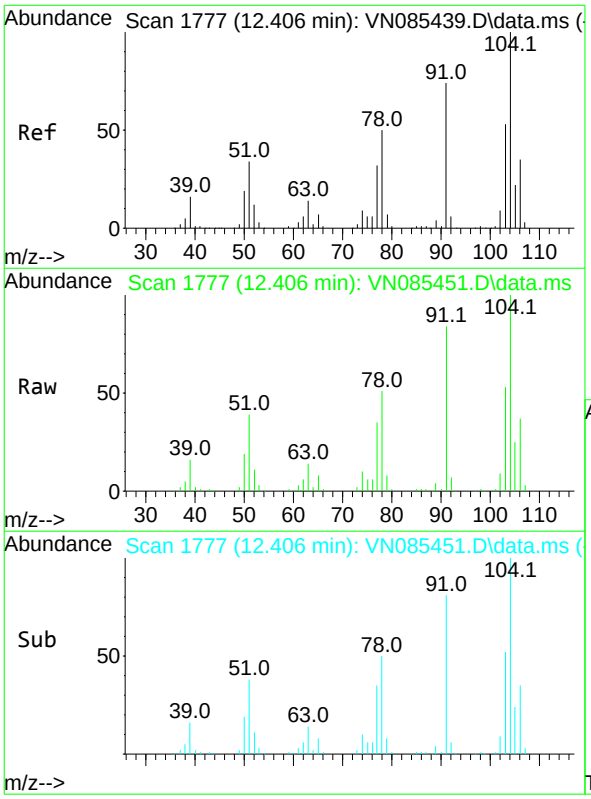
Ion	Ratio	Lower	Upper
106	100		
91	219.1	110.4	331.2



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Manual Integrations
APPROVED

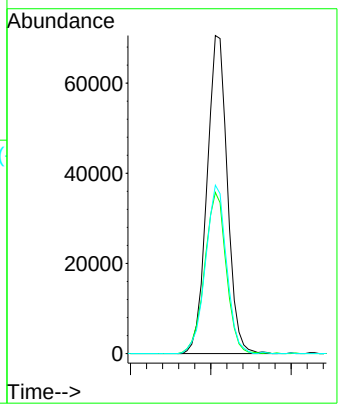
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

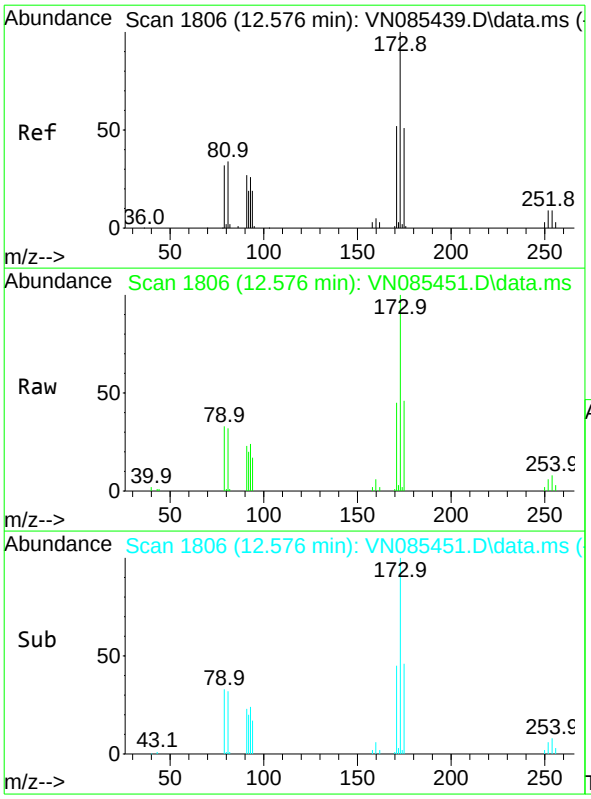


#70
Styrene
Concen: 20.788 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion:104 Resp: 124126

Ion	Ratio	Lower	Upper
104	100		
78	53.5	42.5	63.7
103	54.9	43.8	65.8





#71
Bromoform
Concen: 20.643 ug/l
RT: 12.576 min Scan# 18
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

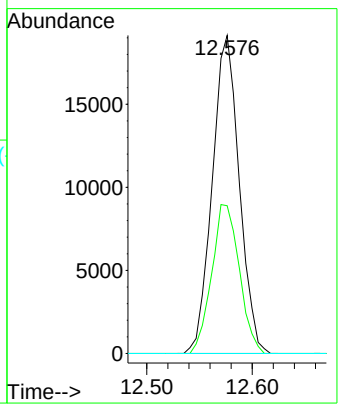
Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

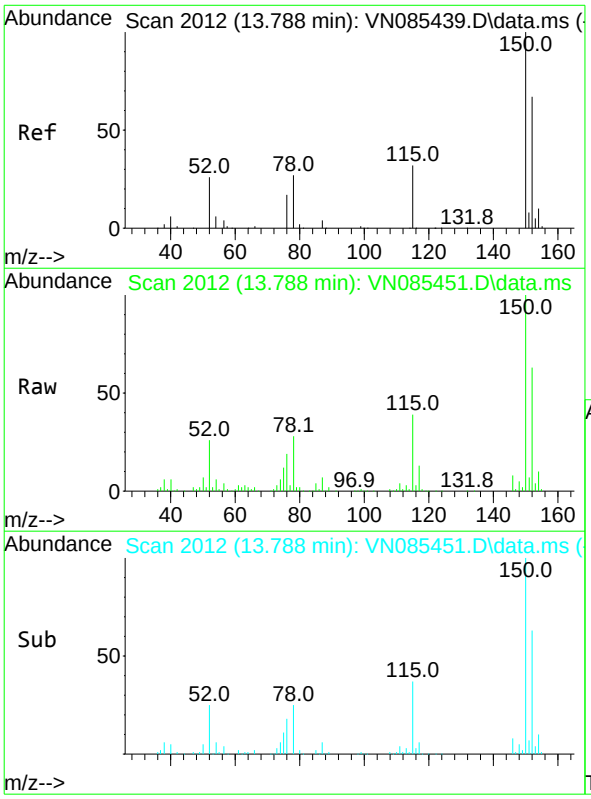
Tgt Ion:173 Resp: 34000

Ion	Ratio	Lower	Upper
173	100		
175	48.0	24.4	73.2
254	0.0	0.0	0.0

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

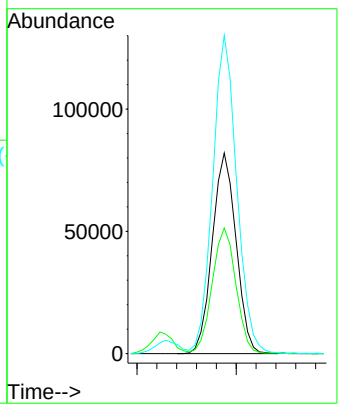


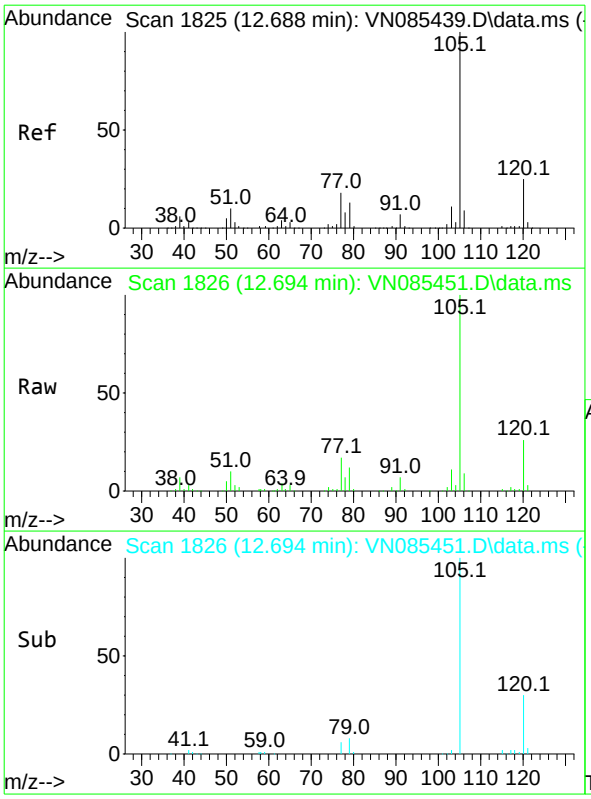


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion:152 Resp: 136502

Ion	Ratio	Lower	Upper
152	100		
115	62.5	31.1	93.3
150	160.9	0.0	343.6

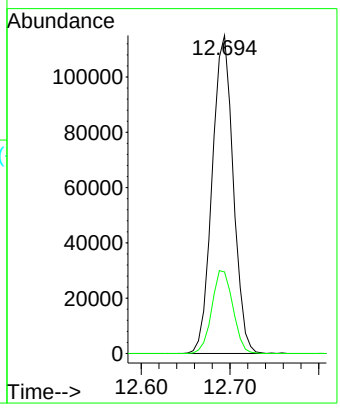




#73
Isopropylbenzene
Concen: 20.582 ug/l
RT: 12.694 min Scan# 18
Delta R.T. 0.006 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion:105 Resp: 189617

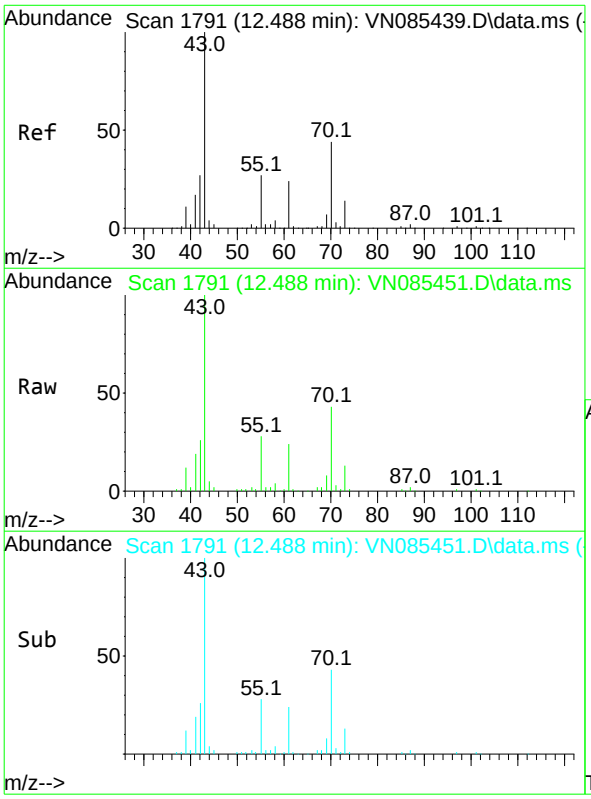
Ion	Ratio	Lower	Upper
105	100		
120	26.1	12.8	38.3



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Manual Integrations
APPROVED

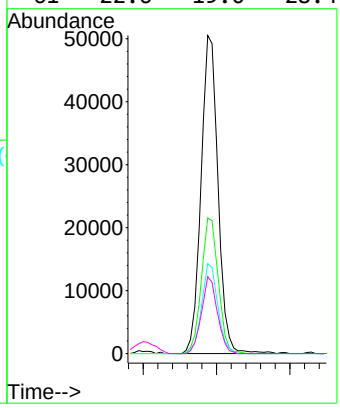
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

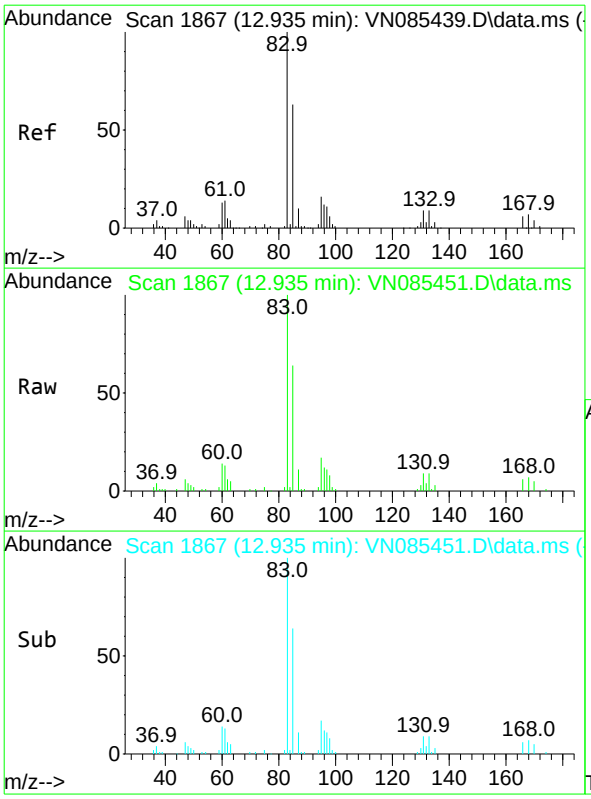


#74
N-amyl acetate
Concen: 19.619 ug/l
RT: 12.488 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 43 Resp: 81241

Ion	Ratio	Lower	Upper
43	100		
70	42.3	34.0	51.0
55	26.9	21.4	32.2
61	22.6	19.0	28.4

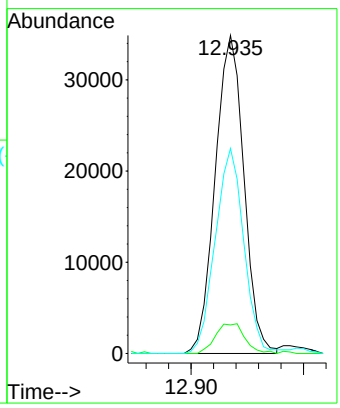




#75
1,1,2,2-Tetrachloroethane
Concen: 19.012 ug/l
RT: 12.935 min Scan# 18
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 83 Resp: 61871

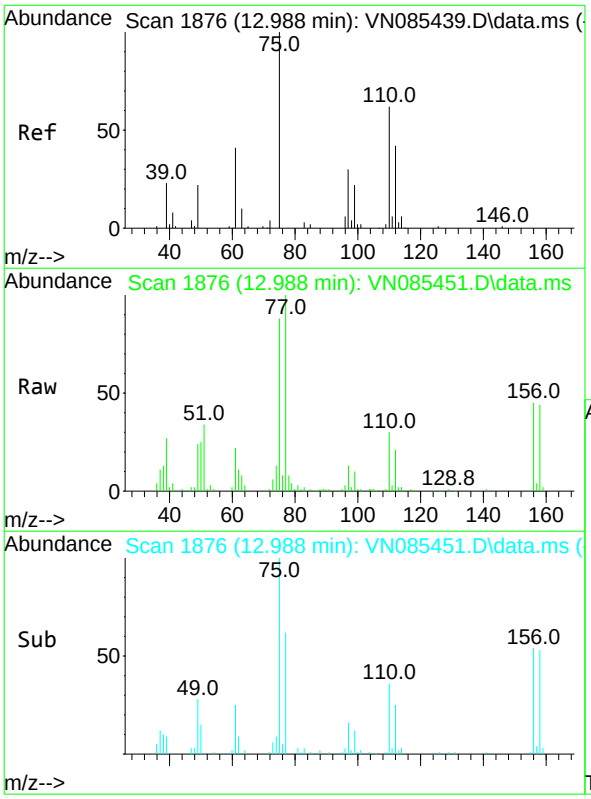
Ion	Ratio	Lower	Upper
83	100		
131	9.6	4.8	14.4
85	63.9	32.2	96.6



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Manual Integrations APPROVED

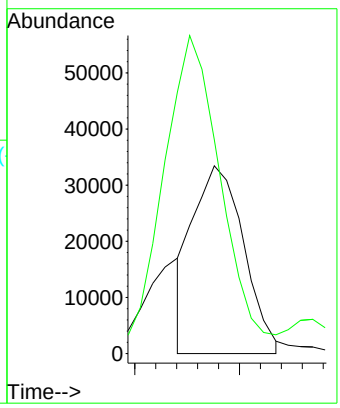
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

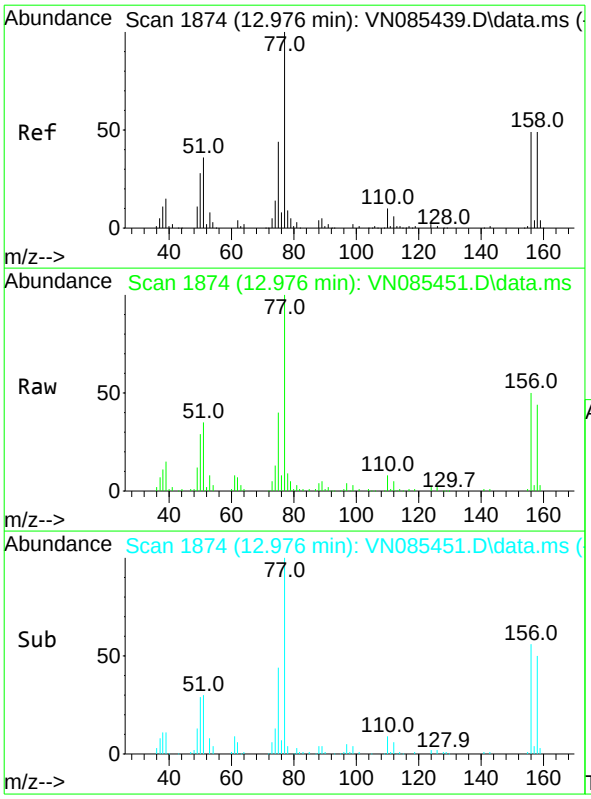


#76
1,2,3-Trichloropropane
Concen: 20.404 ug/l m
RT: 12.988 min Scan# 1876
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 75 Resp: 56609

Ion	Ratio	Lower	Upper
75	100		
77	193.4	109.7	329.2

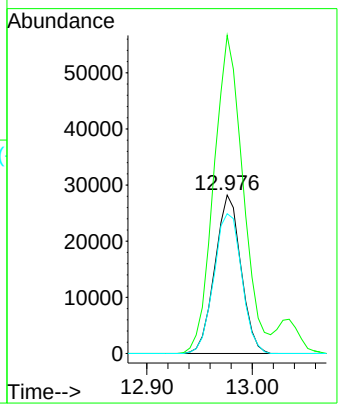




#77
Bromobenzene
Concen: 20.145 ug/l
RT: 12.976 min Scan# 18
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion:156 Resp: 48489

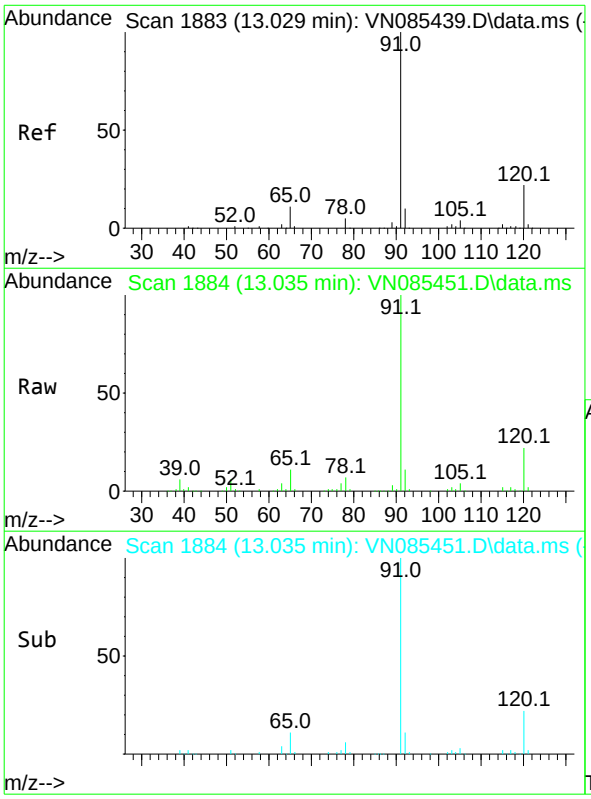
Ion	Ratio	Lower	Upper
156	100		
77	225.8	114.1	342.4
158	94.1	48.9	146.8



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Manual Integrations APPROVED

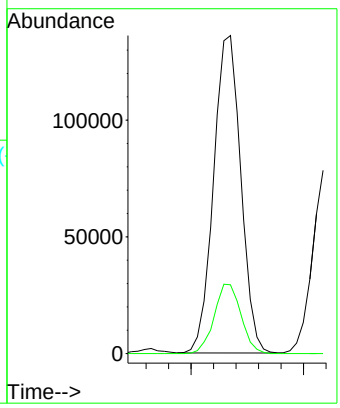
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

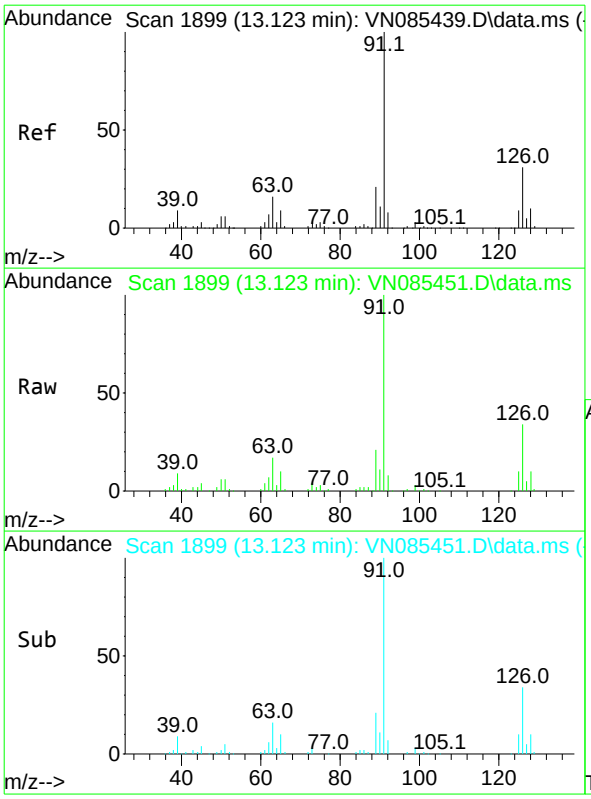


#78
n-propylbenzene
Concen: 20.981 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.006 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 91 Resp: 228827

Ion	Ratio	Lower	Upper
91	100		
120	21.5	10.9	32.6

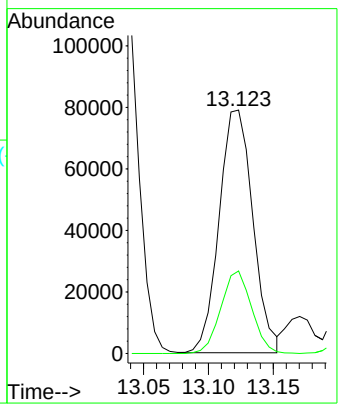




#79
2-Chlorotoluene
Concen: 20.272 ug/l
RT: 13.123 min Scan# 18
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 91 Resp: 143092

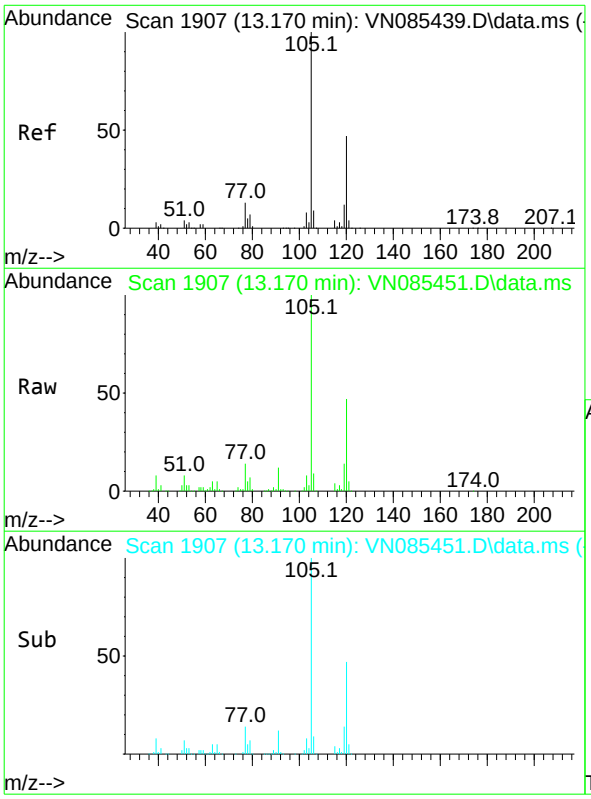
Ion	Ratio	Lower	Upper
91	100		
126	31.0	15.7	47.1



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Manual Integrations
APPROVED

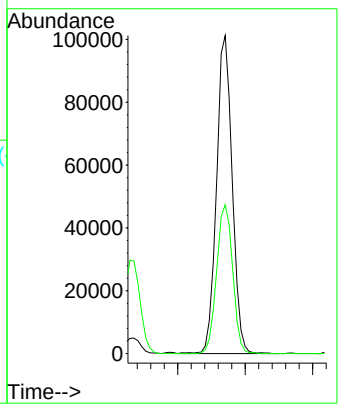
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

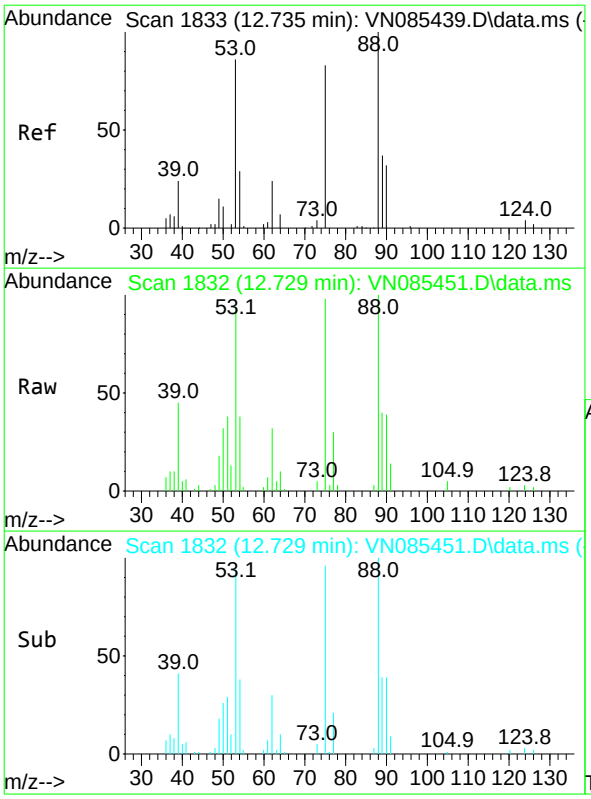


#80
1,3,5-Trimethylbenzene
Concen: 21.445 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion:105 Resp: 163195

Ion	Ratio	Lower	Upper
105	100		
120	47.8	23.9	71.7

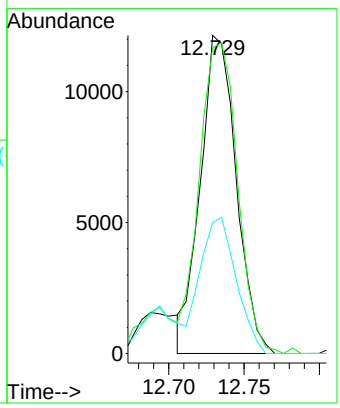




#81
trans-1,4-Dichloro-2-butene
Concen: 19.614 ug/l m
RT: 12.729 min Scan# 18
Delta R.T. -0.006 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 75 Resp: 20113

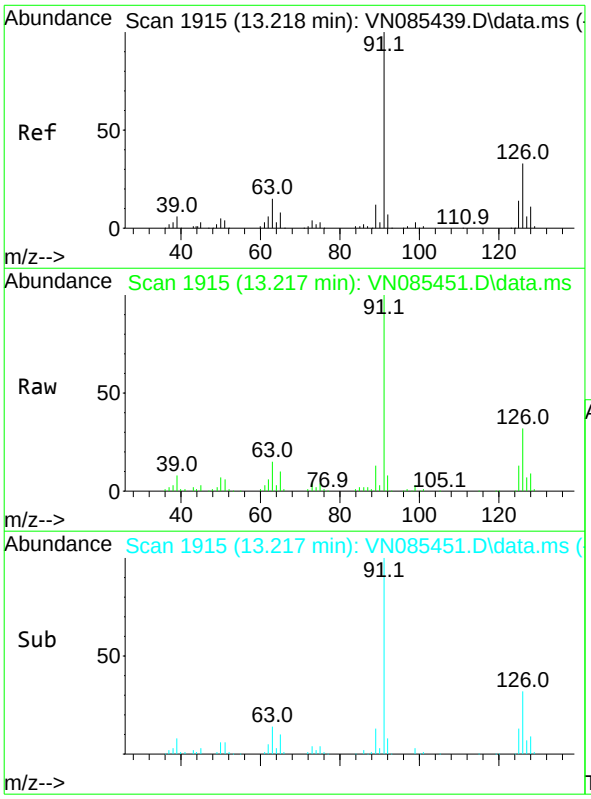
Ion	Ratio	Lower	Upper
75	100		
53	104.2	95.6	143.4
89	42.6	37.0	55.6



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Manual Integrations
APPROVED

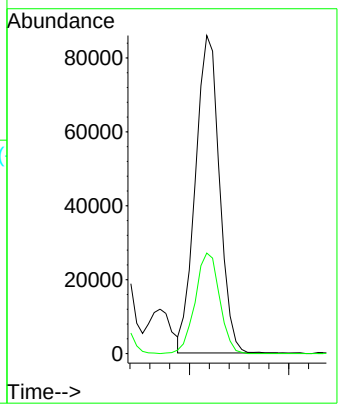
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

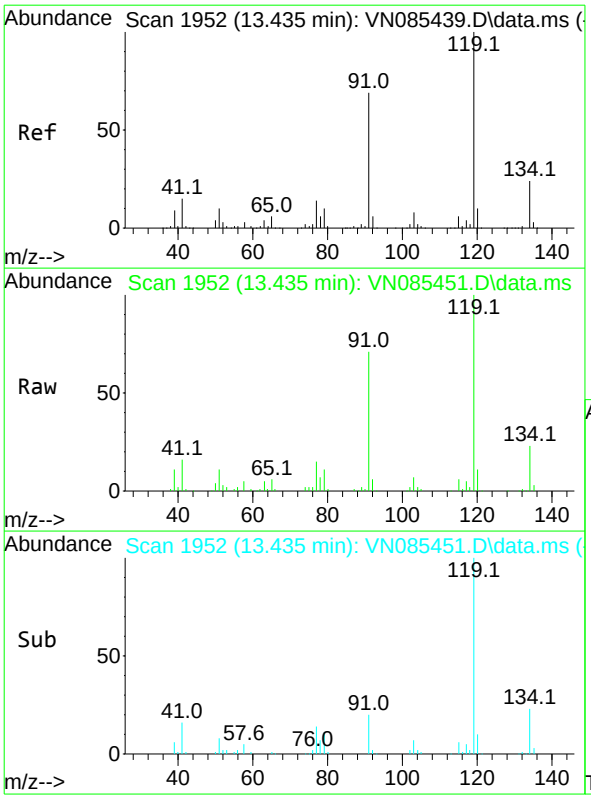


#82
4-Chlorotoluene
Concen: 20.562 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 91 Resp: 144513

Ion	Ratio	Lower	Upper
91	100		
126	32.2	15.9	47.7

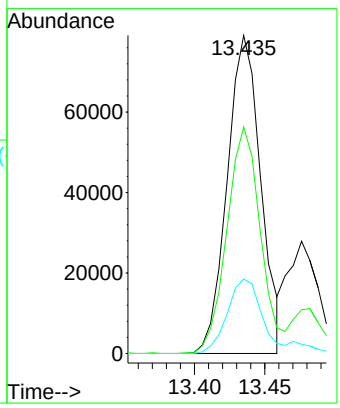




#83
tert-Butylbenzene
Concen: 20.501 ug/l
RT: 13.435 min Scan# 19
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion:119 Resp: 131013

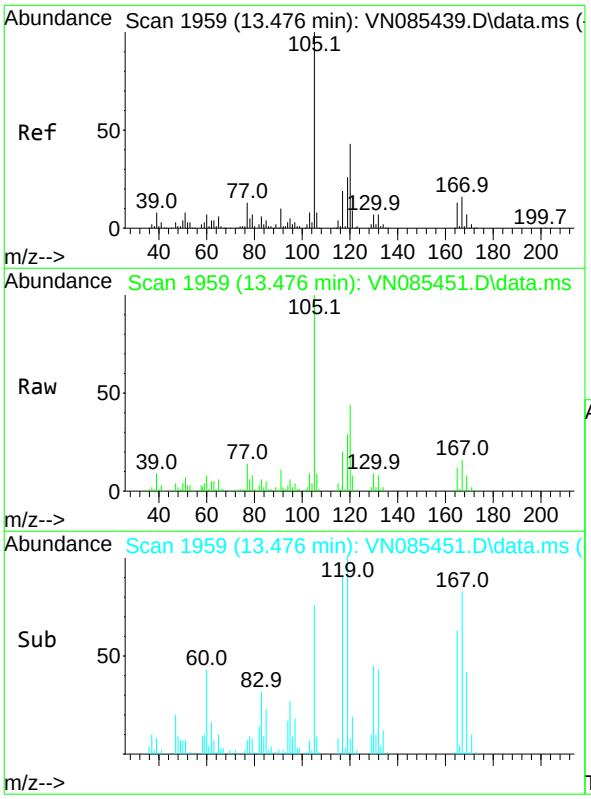
Ion	Ratio	Lower	Upper
119	100		
91	71.6	35.1	105.3
134	24.0	12.0	36.1



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Manual Integrations
APPROVED

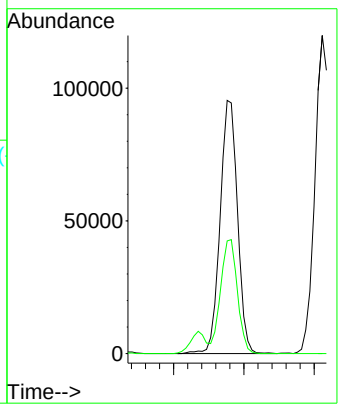
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

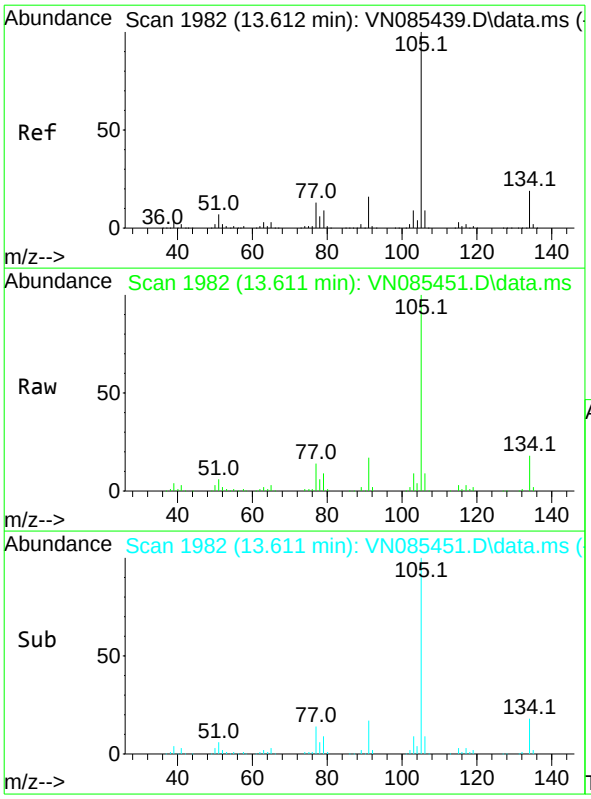


#84
1,2,4-Trimethylbenzene
Concen: 21.634 ug/l
RT: 13.476 min Scan# 1959
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion:105 Resp: 164079

Ion	Ratio	Lower	Upper
105	100		
120	43.3	21.6	65.0

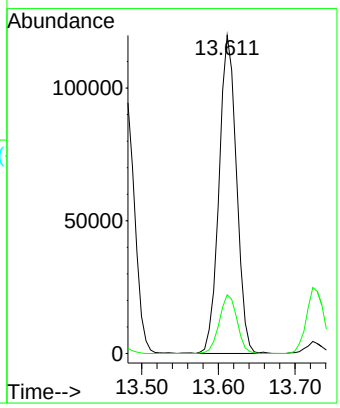




#85
sec-Butylbenzene
Concen: 21.398 ug/l
RT: 13.611 min Scan# 19
Delta R.T. -0.001 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion:105 Resp: 189519

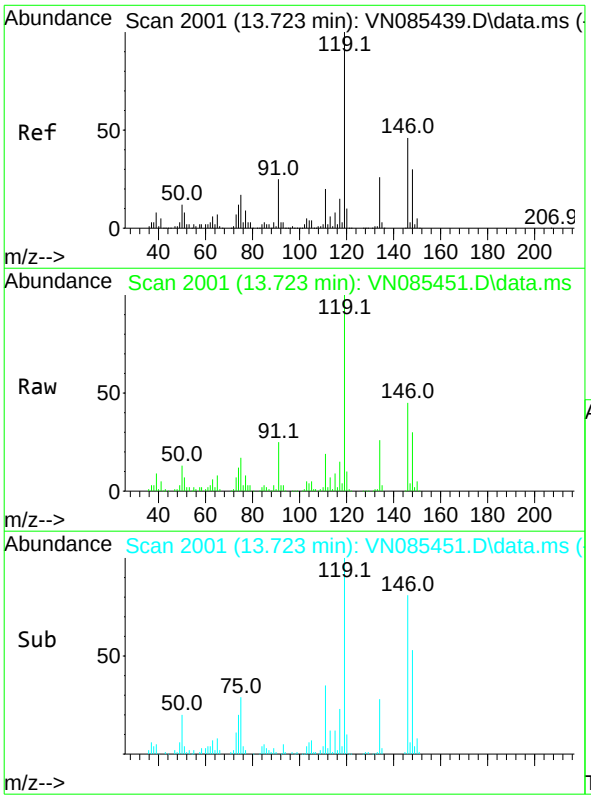
Ion	Ratio	Lower	Upper
105	100		
134	18.7	9.7	28.9



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Manual Integrations
APPROVED

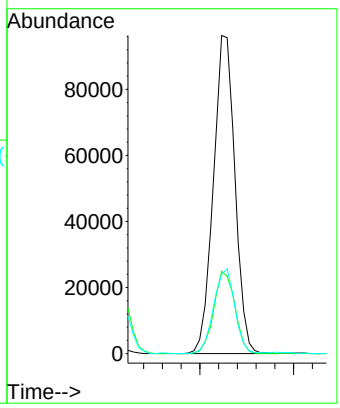
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

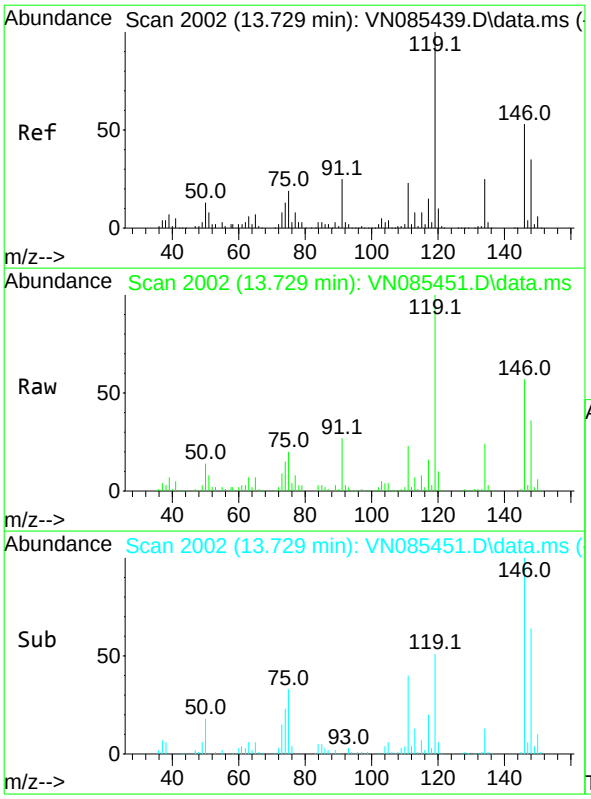


#86
p-Isopropyltoluene
Concen: 20.798 ug/l
RT: 13.723 min Scan# 2001
Delta R.T. 0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion:119 Resp: 153867

Ion	Ratio	Lower	Upper
119	100		
134	25.3	12.7	38.0
91	26.0	12.7	38.1

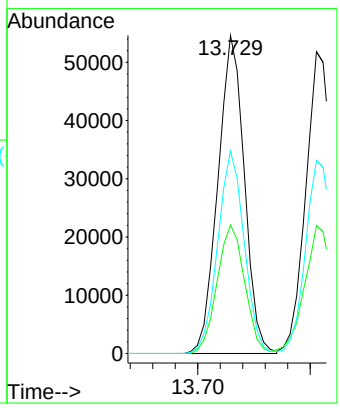




#87
1,3-Dichlorobenzene
Concen: 20.107 ug/l
RT: 13.729 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion:146 Resp: 89126

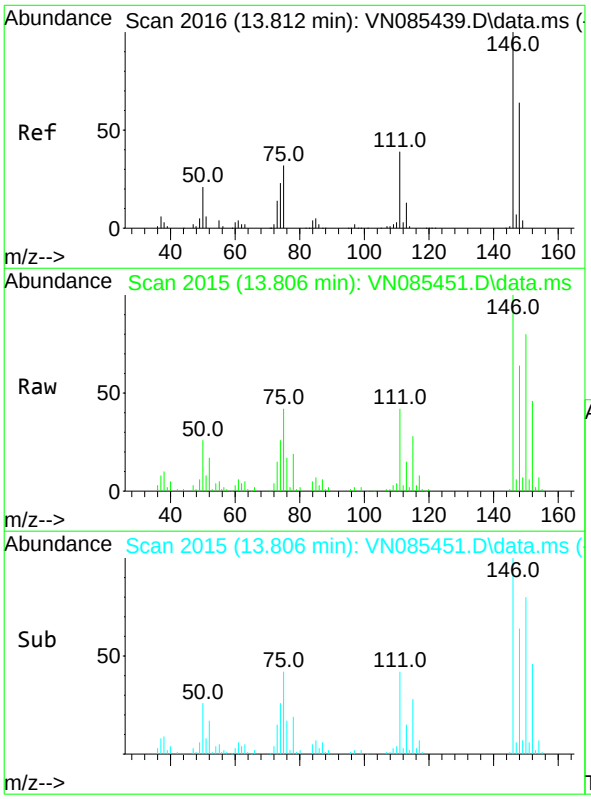
Ion	Ratio	Lower	Upper
146	100		
111	42.0	21.4	64.3
148	63.8	32.3	96.9



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Manual Integrations
APPROVED

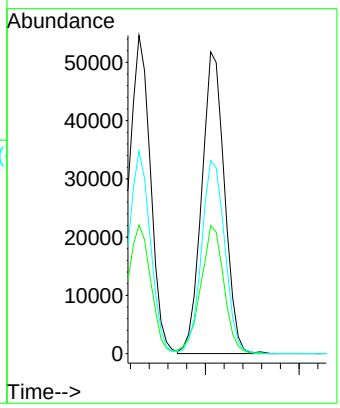
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

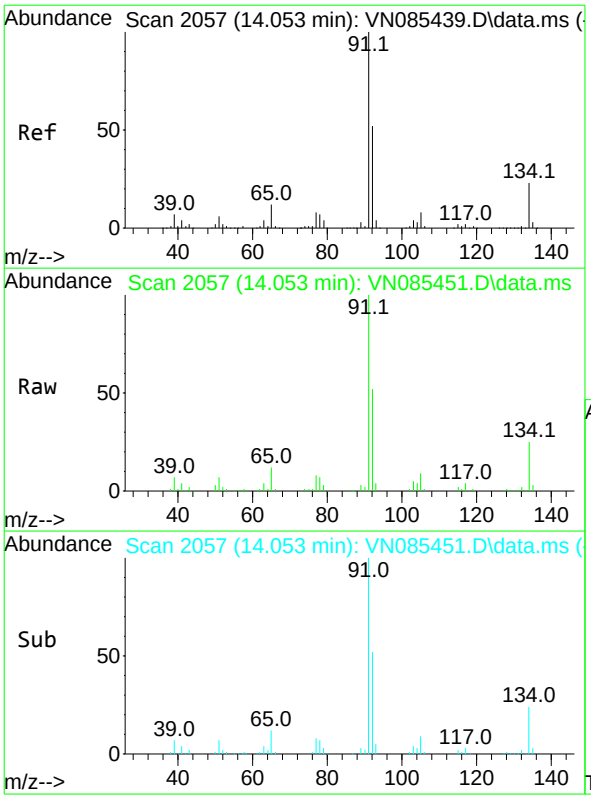


#88
1,4-Dichlorobenzene
Concen: 19.057 ug/l
RT: 13.806 min Scan# 2015
Delta R.T. -0.006 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion:146 Resp: 87559

Ion	Ratio	Lower	Upper
146	100		
111	43.5	21.3	63.7
148	65.5	32.4	97.0

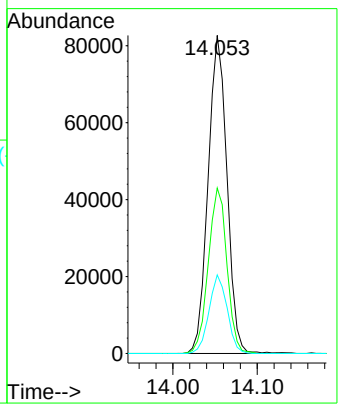




#89
n-Butylbenzene
Concen: 20.183 ug/l
RT: 14.053 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 91 Resp: 128246

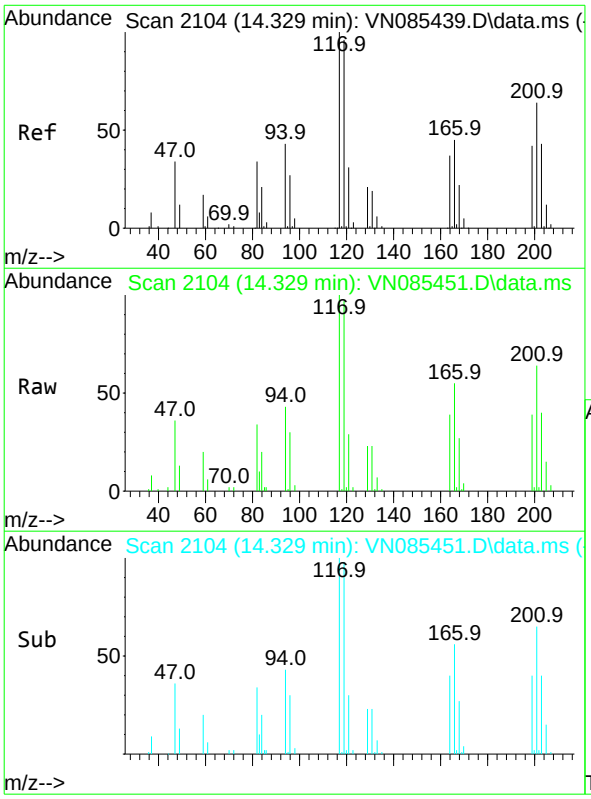
Ion	Ratio	Lower	Upper
91	100		
92	51.4	25.8	77.3
134	23.8	11.7	35.1



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Manual Integrations
APPROVED

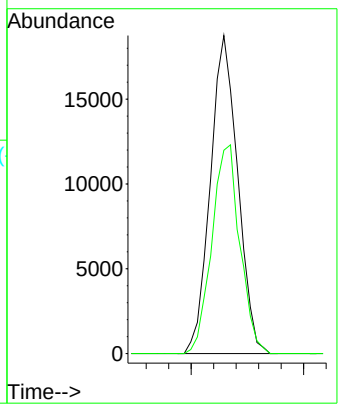
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

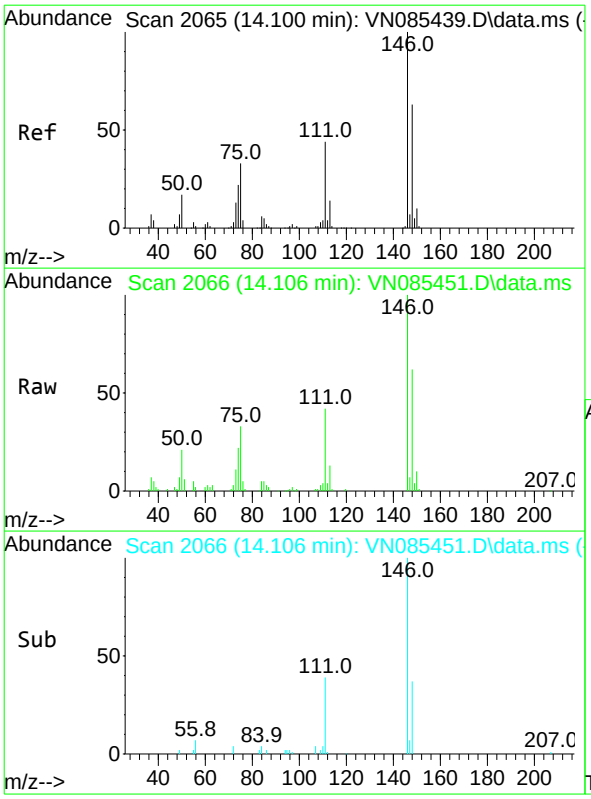


#90
Hexachloroethane
Concen: 18.820 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion:117 Resp: 31733

Ion	Ratio	Lower	Upper
117	100		
201	67.1	33.7	101.0

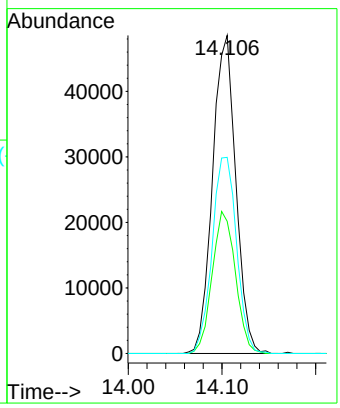




#91
1,2-Dichlorobenzene
Concen: 18.967 ug/l
RT: 14.106 min Scan# 20
Delta R.T. 0.006 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion:146 Resp: 83864

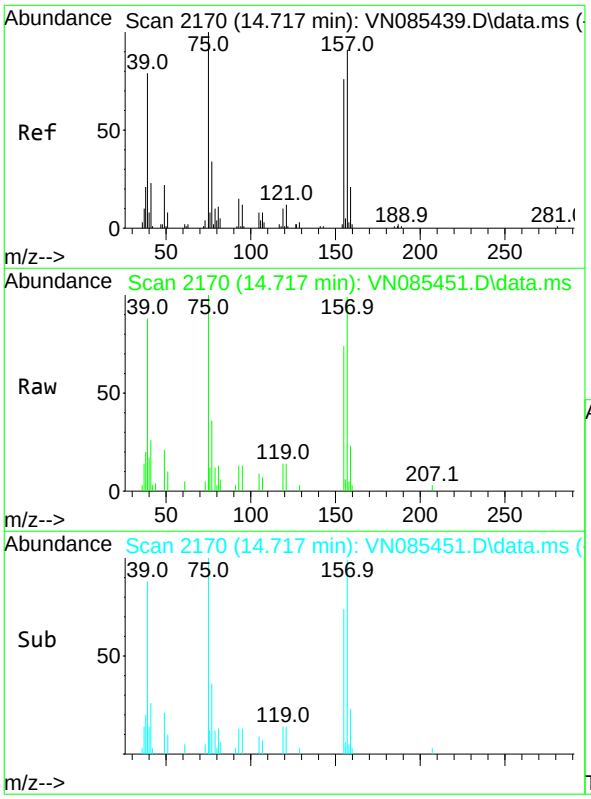
Ion	Ratio	Lower	Upper
146	100		
111	44.6	21.7	65.1
148	64.9	31.4	94.2



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Manual Integrations APPROVED

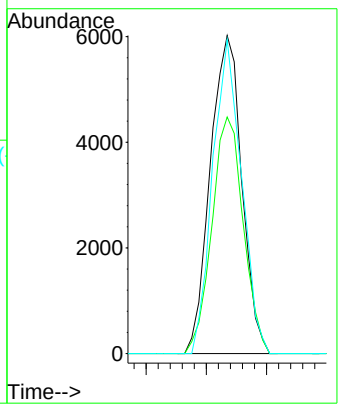
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

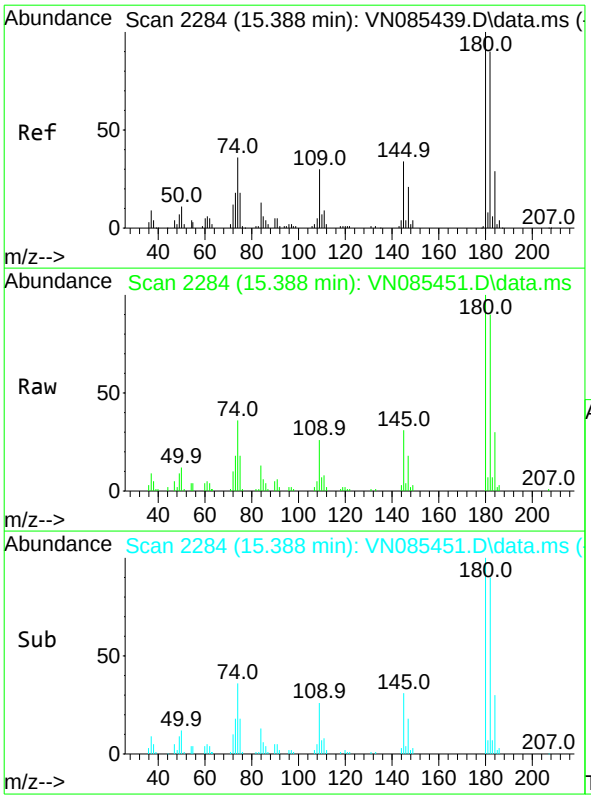


#92
1,2-Dibromo-3-Chloropropane
Concen: 18.416 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 75 Resp: 10944

Ion	Ratio	Lower	Upper
75	100		
155	74.0	36.4	109.2
157	90.2	45.4	136.1

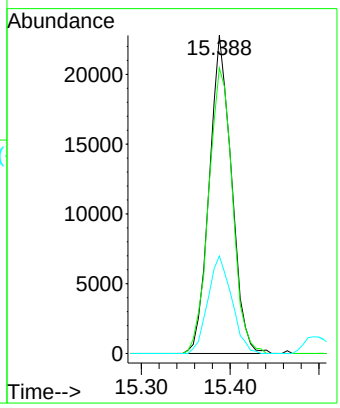




#93
1,2,4-Trichlorobenzene
Concen: 19.248 ug/l
RT: 15.388 min Scan# 22
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion:180 Resp: 39555

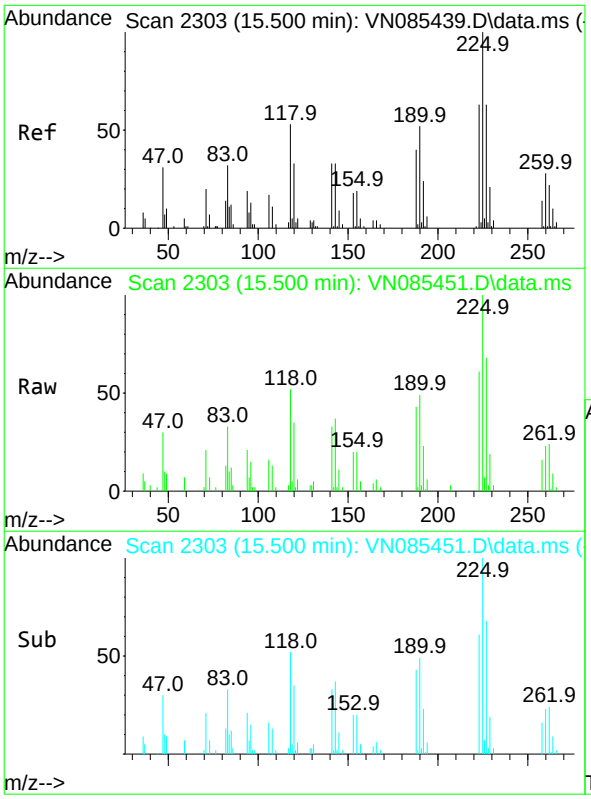
Ion	Ratio	Lower	Upper
180	100		
182	96.1	46.8	140.3
145	32.8	16.0	48.0



Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Manual Integrations APPROVED

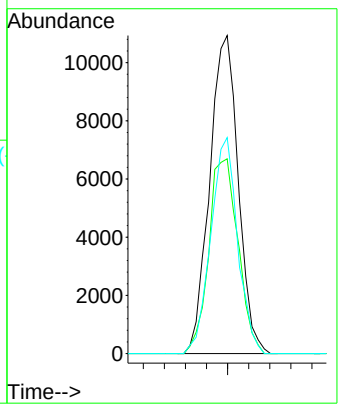
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

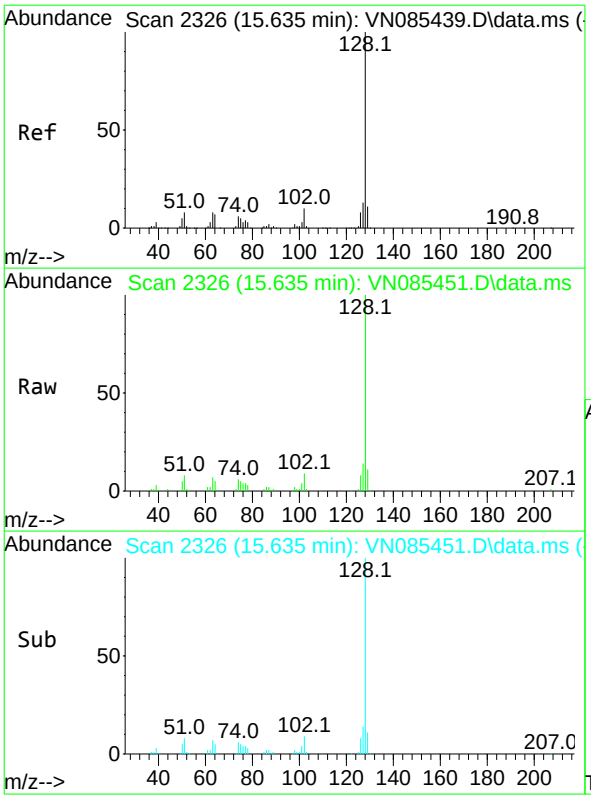


#94
Hexachlorobutadiene
Concen: 18.872 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion:225 Resp: 20590

Ion	Ratio	Lower	Upper
225	100		
223	62.9	30.7	92.1
227	63.8	30.9	92.5





#95
Naphthalene
Concen: 17.334 ug/l
RT: 15.635 min Scan# 23
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

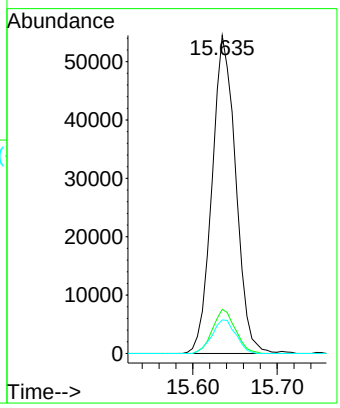
Tgt Ion:128 Resp: 106293

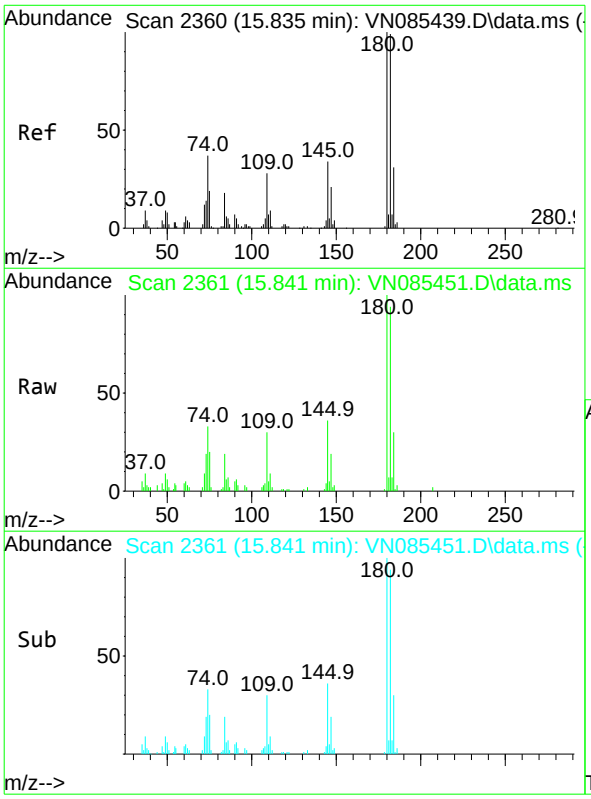
Ion	Ratio	Lower	Upper
128	100		
127	13.4	10.6	16.0
129	10.7	8.8	13.2

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

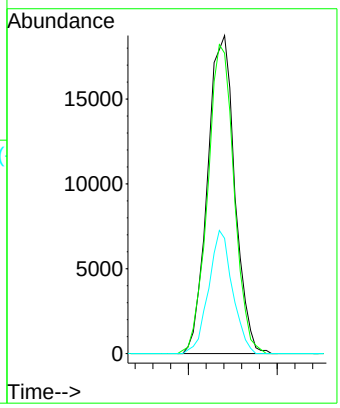




#96
1,2,3-Trichlorobenzene
Concen: 19.221 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. 0.006 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion:180 Resp: 39966

Ion	Ratio	Lower	Upper
180	100		
182	94.0	47.4	142.2
145	33.9	16.9	50.7



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

Manual Integration Report

Sequence:	VN011425	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC100	VN085438.D	1,2,3-Trichloropropane	JOHN	1/15/2025 9:31:09 AM	MMDadoda	1/15/2025 12:55:19 PM	Peak Integrated by Software
VSTDICCC050	VN085439.D	1,2,3-Trichloropropane	JOHN	1/15/2025 9:31:14 AM	MMDadoda	1/15/2025 12:55:22 PM	Peak Integrated by Software
VSTDICC020	VN085440.D	1,2,3-Trichloropropane	JOHN	1/15/2025 9:31:19 AM	MMDadoda	1/15/2025 12:55:25 PM	Peak Integrated by Software
VSTDICC020	VN085440.D	trans-1,4-Dichloro-2-but ene	JOHN	1/15/2025 9:31:19 AM	MMDadoda	1/15/2025 12:55:25 PM	Peak Integrated by Software
VSTDICC020	VN085440.D	Vinyl Acetate	JOHN	1/15/2025 9:31:19 AM	MMDadoda	1/15/2025 12:55:25 PM	Peak Integrated by Software
VSTDICC010	VN085441.D	1,2,3-Trichloropropane	JOHN	1/15/2025 9:31:23 AM	MMDadoda	1/15/2025 12:55:29 PM	Peak Integrated by Software
VSTDICC005	VN085442.D	1,2,3-Trichloropropane	JOHN	1/15/2025 9:31:28 AM	MMDadoda	1/15/2025 12:55:34 PM	Peak Integrated by Software
VSTDICC005	VN085442.D	Ethyl Acetate	JOHN	1/15/2025 9:31:28 AM	MMDadoda	1/15/2025 12:55:34 PM	Peak Integrated by Software
VSTDICC005	VN085442.D	Vinyl Acetate	JOHN	1/15/2025 9:31:28 AM	MMDadoda	1/15/2025 12:55:34 PM	Peak Integrated by Software
VSTDICC001	VN085443.D	1,1,2-Trichlorotrifluoroet hane	JOHN	1/15/2025 9:31:32 AM	MMDadoda	1/15/2025 12:55:39 PM	Peak Integrated by Software
VSTDICC001	VN085443.D	1,1-Dichloroethane	JOHN	1/15/2025 9:31:32 AM	MMDadoda	1/15/2025 12:55:39 PM	Peak Integrated by Software
VSTDICC001	VN085443.D	1,2,3-Trichloropropane	JOHN	1/15/2025 9:31:32 AM	MMDadoda	1/15/2025 12:55:39 PM	Peak Integrated by Software
VSTDICC001	VN085443.D	1,4-Dichlorobenzene	JOHN	1/15/2025 9:31:32 AM	MMDadoda	1/15/2025 12:55:39 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	VN011425	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VN085443.D	2-Butanone	JOHN	1/15/2025 9:31:32 AM	MMDadoda	1/15/2025 12:55:39 PM	Peak Integrated by Software
VSTDICC001	VN085443.D	Ethyl Acetate	JOHN	1/15/2025 9:31:32 AM	MMDadoda	1/15/2025 12:55:39 PM	Peak Integrated by Software
VSTDICC001	VN085443.D	Vinyl Acetate	JOHN	1/15/2025 9:31:32 AM	MMDadoda	1/15/2025 12:55:39 PM	Peak Integrated by Software
VSTDICV050	VN085445.D	1,2,3-Trichloropropane	JOHN	1/15/2025 9:31:37 AM	MMDadoda	1/15/2025 12:55:43 PM	Peak Integrated by Software
VSTDICV050	VN085445.D	trans-1,4-Dichloro-2-but ene	JOHN	1/15/2025 9:31:37 AM	MMDadoda	1/15/2025 12:55:43 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	VN011525	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VN085447.D	1,2,3-Trichloropropane	MMDADODA	1/16/2025 7:34:24 AM	SAM	1/16/2025 7:37:05 AM	Peak Integrated by Software
VN0115WBS01	VN085450.D	1,2,3-Trichloropropane	MMDADODA	1/16/2025 7:34:27 AM	SAM	1/16/2025 7:37:06 AM	Peak Integrated by Software
VN0115WBS01	VN085450.D	trans-1,4-Dichloro-2-butene	MMDADODA	1/16/2025 7:34:27 AM	SAM	1/16/2025 7:37:06 AM	Peak Integrated by Software
VN0115WBSD01	VN085451.D	1,2,3-Trichloropropane	MMDADODA	1/16/2025 7:34:29 AM	SAM	1/16/2025 7:37:08 AM	Peak Integrated by Software
VN0115WBSD01	VN085451.D	trans-1,4-Dichloro-2-butene	MMDADODA	1/16/2025 7:34:29 AM	SAM	1/16/2025 7:37:08 AM	Peak Integrated by Software
VN0115WBSD01	VN085451.D	Vinyl Acetate	MMDADODA	1/16/2025 7:34:29 AM	SAM	1/16/2025 7:37:08 AM	Peak Integrated by Software
VSTDCCC050	VN085463.D	1,2,3-Trichloropropane	MMDADODA	1/16/2025 7:34:34 AM	SAM	1/16/2025 7:37:13 AM	Peak Integrated by Software
VSTDCCC050	VN085463.D	trans-1,4-Dichloro-2-butene	MMDADODA	1/16/2025 7:34:34 AM	SAM	1/16/2025 7:37:13 AM	Peak Integrated by Software

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

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN011425

Review By	John Carlone	Review On	1/15/2025 9:31:51 AM		
Supervise By	Mahesh Dadoda	Supervise On	1/15/2025 12:55:51 PM		
SubDirectory	VN011425	HP Acquire Method		HP Processing Method	82N011425W.M

STD. NAME	STD REF.#
Tune/Reschk	VP132529
Initial Calibration Stds	VP132530,VP132531,VP132532,VP132533,VP132534,VP132535
CCC	
Internal Standard/PEM	
ICV/I.BLK	VP132544
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN085437.D	14 Jan 2025 14:22	JC\MD	Ok
2	VSTDICC100	VN085438.D	14 Jan 2025 14:56	JC\MD	Ok,M
3	VSTDICCC050	VN085439.D	14 Jan 2025 15:19	JC\MD	Ok,M
4	VSTDICC020	VN085440.D	14 Jan 2025 15:43	JC\MD	Ok,M
5	VSTDICC010	VN085441.D	14 Jan 2025 16:07	JC\MD	Ok,M
6	VSTDICC005	VN085442.D	14 Jan 2025 16:31	JC\MD	Ok,M
7	VSTDICC001	VN085443.D	14 Jan 2025 17:19	JC\MD	Ok,M
8	IBLK	VN085444.D	14 Jan 2025 17:42	JC\MD	Ok
9	VSTDICV050	VN085445.D	14 Jan 2025 18:06	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_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN011525

Review By	Mahesh Dadoda	Review On	1/16/2025 7:34:37 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	1/16/2025 7:37:16 AM		
SubDirectory	VN011525	HP Acquire Method		HP Processing Method	82N011425W.M

STD. NAME	STD REF.#
Tune/Reschk	VP132547
Initial Calibration Stds	
CCC	VP132548,VP132549
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN085446.D	15 Jan 2025 08:25	JC\MD	Ok
2	VSTDCCC050	VN085447.D	15 Jan 2025 09:03	JC\MD	Ok,M
3	VN0115MBL01	VN085448.D	15 Jan 2025 09:41	JC\MD	Ok
4	VN0115WBL01	VN085449.D	15 Jan 2025 10:05	JC\MD	Ok
5	VN0115WBS01	VN085450.D	15 Jan 2025 10:29	JC\MD	Ok,M
6	VN0115WBSD01	VN085451.D	15 Jan 2025 11:02	JC\MD	Ok,M
7	Q1062-04	VN085452.D	15 Jan 2025 11:26	JC\MD	Ok
8	Q1062-01	VN085453.D	15 Jan 2025 11:50	JC\MD	Ok
9	Q1062-03	VN085454.D	15 Jan 2025 12:14	JC\MD	Ok
10	Q1062-02	VN085455.D	15 Jan 2025 12:37	JC\MD	Ok
11	PB166029TB	VN085456.D	15 Jan 2025 13:01	JC\MD	Ok
12	PB166029ZHE#01	VN085457.D	15 Jan 2025 13:25	JC\MD	Ok
13	PB166029ZHE#02	VN085458.D	15 Jan 2025 13:49	JC\MD	Ok
14	PB166029ZHE#03	VN085459.D	15 Jan 2025 14:13	JC\MD	Ok
15	Q1069-02	VN085460.D	15 Jan 2025 14:37	JC\MD	ReRun
16	Q1074-02	VN085461.D	15 Jan 2025 15:00	JC\MD	Ok
17	Q1076-02	VN085462.D	15 Jan 2025 15:24	JC\MD	Ok,M
18	VSTDCCC050	VN085463.D	15 Jan 2025 15:58	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_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN011425

Review By	John Carlone	Review On	1/15/2025 9:31:51 AM		
Supervise By	Mahesh Dadoda	Supervise On	1/15/2025 12:55:51 PM		
SubDirectory	VN011425	HP Acquire Method		HP Processing Method	82N011425W.M

STD. NAME	STD REF.#
Tune/Reschk	VP132529
Initial Calibration Stds	VP132530,VP132531,VP132532,VP132533,VP132534,VP132535
CCC	
Internal Standard/PEM	
ICV/I.BLK	VP132544
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN085437.D	14 Jan 2025 14:22		JC\MD	Ok
2	VSTDICC100	VSTDICC100	VN085438.D	14 Jan 2025 14:56		JC\MD	Ok,M
3	VSTDICCC050	VSTDICCC050	VN085439.D	14 Jan 2025 15:19	Comp.#56 is on Linear Regression	JC\MD	Ok,M
4	VSTDICC020	VSTDICC020	VN085440.D	14 Jan 2025 15:43	Comp.#86 is on Quadratic Regression	JC\MD	Ok,M
5	VSTDICC010	VSTDICC010	VN085441.D	14 Jan 2025 16:07		JC\MD	Ok,M
6	VSTDICC005	VSTDICC005	VN085442.D	14 Jan 2025 16:31		JC\MD	Ok,M
7	VSTDICC001	VSTDICC001	VN085443.D	14 Jan 2025 17:19		JC\MD	Ok,M
8	IBLK	IBLK	VN085444.D	14 Jan 2025 17:42		JC\MD	Ok
9	VSTDICV050	ICVVN011425	VN085445.D	14 Jan 2025 18:06		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_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN011525

Review By	Mahesh Dadoda	Review On	1/16/2025 7:34:37 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	1/16/2025 7:37:16 AM		
SubDirectory	VN011525	HP Acquire Method		HP Processing Method	82N011425W.M

STD. NAME	STD REF.#
Tune/Reschk	VP132547
Initial Calibration Stds	
CCC	VP132548,VP132549
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN085446.D	15 Jan 2025 08:25		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN085447.D	15 Jan 2025 09:03	V13516	JC\MD	Ok,M
3	VN0115MBL01	VN0115MBL01	VN085448.D	15 Jan 2025 09:41		JC\MD	Ok
4	VN0115WBL01	VN0115WBL01	VN085449.D	15 Jan 2025 10:05		JC\MD	Ok
5	VN0115WBS01	VN0115WBS01	VN085450.D	15 Jan 2025 10:29		JC\MD	Ok,M
6	VN0115WBSD01	VN0115WBSD01	VN085451.D	15 Jan 2025 11:02		JC\MD	Ok,M
7	Q1062-04	BP-VPB-190A-GW-898	VN085452.D	15 Jan 2025 11:26	vial B pH<2	JC\MD	Ok
8	Q1062-01	BP-VPB-190A-TB-2025	VN085453.D	15 Jan 2025 11:50	vial B pH<2 TB	JC\MD	Ok
9	Q1062-03	BP-VPB-190A-EB-2025	VN085454.D	15 Jan 2025 12:14	vial B pH<2 EB	JC\MD	Ok
10	Q1062-02	VPB190A-HYD-202501	VN085455.D	15 Jan 2025 12:37	vial B pH<2	JC\MD	Ok
11	PB166029TB	PB166029TB	VN085456.D	15 Jan 2025 13:01		JC\MD	Ok
12	PB166029ZHE#01	PB166029ZHE#01	VN085457.D	15 Jan 2025 13:25		JC\MD	Ok
13	PB166029ZHE#02	PB166029ZHE#02	VN085458.D	15 Jan 2025 13:49		JC\MD	Ok
14	PB166029ZHE#03	PB166029ZHE#03	VN085459.D	15 Jan 2025 14:13		JC\MD	Ok
15	Q1069-02	RW7B-CARBON-2025(	VN085460.D	15 Jan 2025 14:37	vial A pH#6.0 Surrogate Fail	JC\MD	ReRun
16	Q1074-02	HACKENSACK-DGA	VN085461.D	15 Jan 2025 15:00	vial A pH#5.0	JC\MD	Ok
17	Q1076-02	ARS20-0006	VN085462.D	15 Jan 2025 15:24	vial A pH#5.0	JC\MD	Ok,M
18	VSTDCCC050	VSTDCCC050EC	VN085463.D	15 Jan 2025 15:58		JC\MD	Ok,M

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

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN011525

Review By	Mahesh Dadoda	Review On	1/16/2025 7:34:37 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	1/16/2025 7:37:16 AM		
SubDirectory	VN011525	HP Acquire Method		HP Processing Method	82N011425W.M

STD. NAME	STD REF.#
Tune/Reschk	VP132547
Initial Calibration Stds	
CCC	VP132548,VP132549
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

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 : Q1062

Test : VOCMS Group1

Prepbatch ID :

Sequence ID/Qc Batch ID: VN011525,

Standard ID :
VP130430,VP131746,VP131767,VP132005,VP132035,VP132096,VP132468,VP132547,VP132548,VP132549,

Chemical ID :
V13391,V13445,V13457,V13460,V13465,V13466,V13707,V13806,V14020,V14021,V14105,V14106,V14145,V14152,V14154,V14173,V14174,V14192,V14194,V14201,V14289,V14434,V14437,V14614,V14627,V14630,V14631,V14632,V14633,V14830,V14831,V14832,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
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

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
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

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
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

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

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
51	8260 Working STD (Acrolein) -first source, 800PPM	VP132468	01/08/2025	02/07/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 01/17/2025

FROM 1.00000ml of V14832 + 1.50000ml of V14830 + 1.50000ml of V14831 + 21.00000ml of V14627 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
589	BFB TUNE CHECK	VP132547	01/15/2025	01/16/2025	John Carlone	None	None	Mahesh Dadoda 01/17/2025

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	VP132548	01/15/2025	01/16/2025	John Carlone	None	None	Mahesh Dadoda 01/17/2025

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 + 0.01250ml of VP132468 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
620	50 PPB CCC, 8260-Water	VP132549	01/15/2025	01/16/2025	John Carlone	None	None	Mahesh Dadoda 01/17/2025

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 + 0.01250ml of VP132468 = Final Quantity: 40.000 ml

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30067 / BFB tuneing solution	A0191805	11/22/2025	11/22/2024 / SAM	01/13/2023 / SAM	V13391

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	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	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0193071	06/12/2025	12/12/2024 / SAM	01/27/2023 / SAM	V13457

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0193071	06/12/2025	12/12/2024 / SAM	01/27/2023 / SAM	V13460

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0193071	06/12/2025	12/12/2024 / SAM	01/27/2023 / SAM	V13465

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0193071	06/12/2025	12/12/2024 / SAM	01/27/2023 / SAM	V13466

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555582 / Custom Mixture, 8260 A/B Surrogate Mix [CS 5179-2]	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 #
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	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 #
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

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 #
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

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	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

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)	22L0562016	06/10/2025	12/10/2024 / SAM	11/26/2024 / SAM	V14614

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 #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	23I0762004	07/06/2025	01/06/2025 / SAM	11/26/2024 / SAM	V14627

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14630

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14631

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14632

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14633

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	010725	02/07/2025	01/08/2025 / SAM	01/08/2025 / SAM	V14830

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	010725	02/07/2025	01/08/2025 / SAM	01/08/2025 / SAM	V14831

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	010725	02/07/2025	01/08/2025 / SAM	01/08/2025 / SAM	V14832

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

avantor™ | J.T.Baker®

Material No.: 9077-02
Batch No.: 2310762004
Manufactured Date: 2023-08-11
Expiration Date: 2026-08-10
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.5 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.2
Titrable Base (µeq/g)	≤ 0.10	0.01
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Ken Koehnlein
Sr. Manager, Quality Assurance

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

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

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

Dec 01/08/25

5 vial

V14823-to V14827 V14829

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 010725
Description: Acrolein

Expiration Date: 020725
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

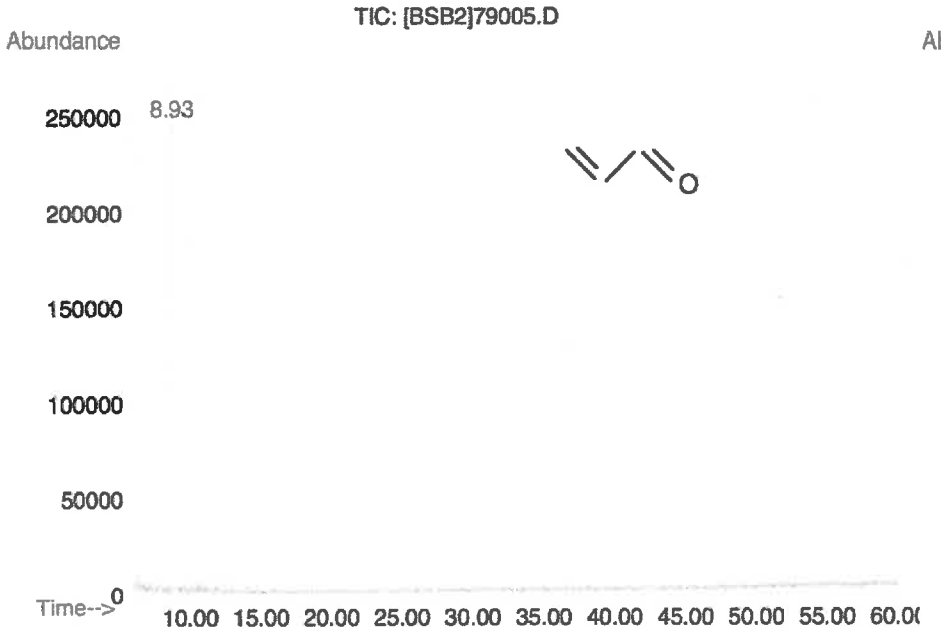
Solvent(s): Water **Lot#** 072324Q

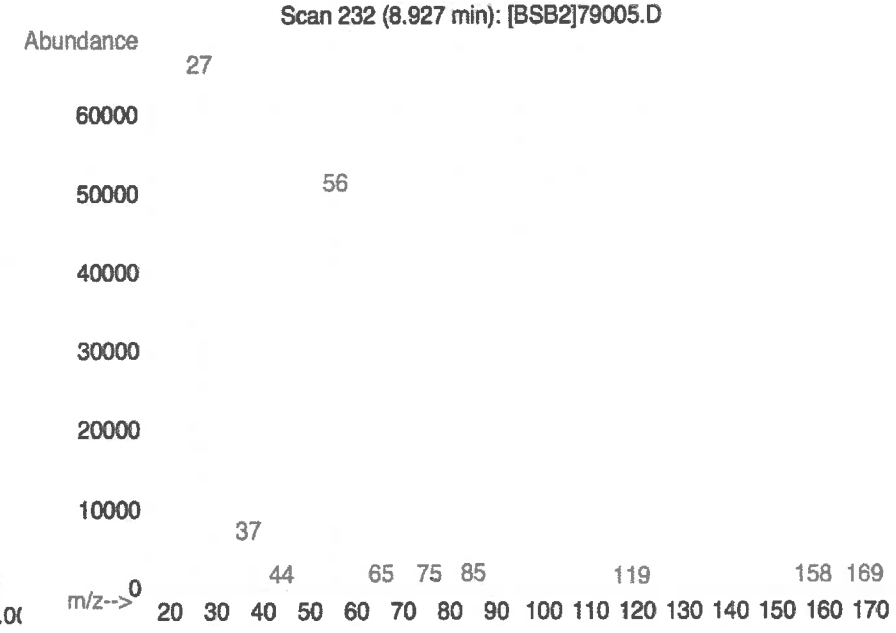
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

Formulated By:	Anthony Mahoney	010725 DATE
Reviewed By:	Pedro L. Rentas	010725 DATE

	Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1.	Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05178	5011.8	52.6	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated 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 WATER**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr.	Emergency Telephone International	**1-352-323-3500**
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

P271	**Use in ventilated area**	**H315**	**Causes skin and eye irritation.**
P302,332	**If on skin, wash with soap and water**	**P280**	**Use gloves, eye protection/face sheild**
		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)
Water	CAS#: 7732-18-5	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.
Hazardous Decomposition products	Carbon oxides

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Water CAS#: 7732-18-5 TWA: 500 ppm

Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	100°C	Specific Gravity (H2O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

	NA		0°C
Vapor Density (AIR = 1)	NA	Evaporation rate (Butyl Acetate = 1)	NA

Solubility in Water — Completely miscible

Appearance and Odor — CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability — Stable under recommended storage conditions.
Possibility of hazardous reactions — NA
Conditions to avoid — NA
Materials to avoid — NA
Hazardous decomposition products - No data available

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat — NA
LC50 Inhalation - Rat — NA
LD50 Dermal - Guinea pig — NA
Causes skin irritation.
Eye irritation

Section XII. ECOLOGICAL INFORMATION

LC50 — NA
EC50 — NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods
Proper shipping name: Water

IATA
Not dangerous goods
Proper shipping name: Water

Section XV. REGULATORY INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential 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 Material 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

Dec 01/08/25

5 vial

V14823-to V14827 V14829

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 010725
Description: Acrolein

Expiration Date: 020725
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

Solvent(s): Water **Lot#** 072324Q

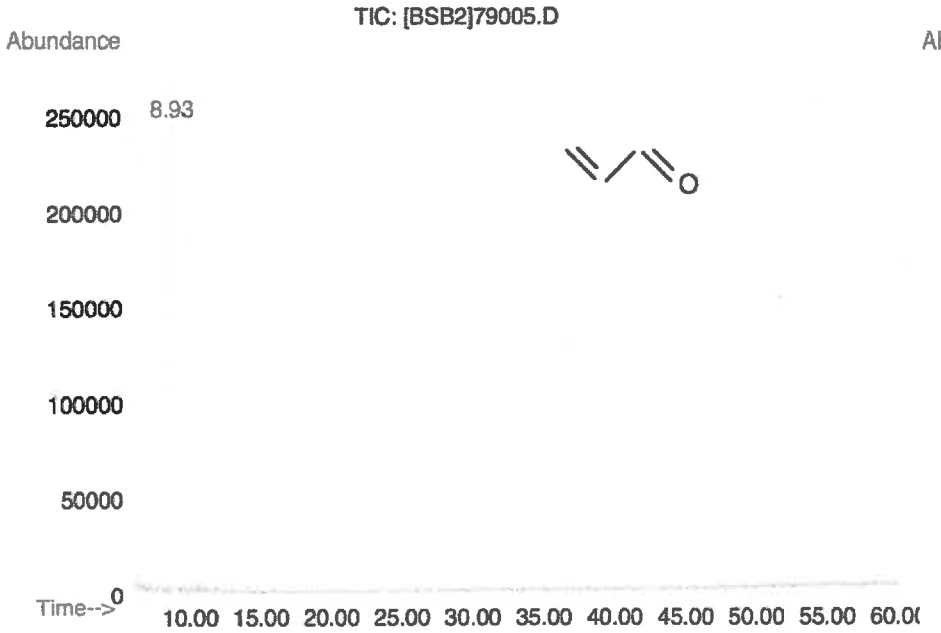
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

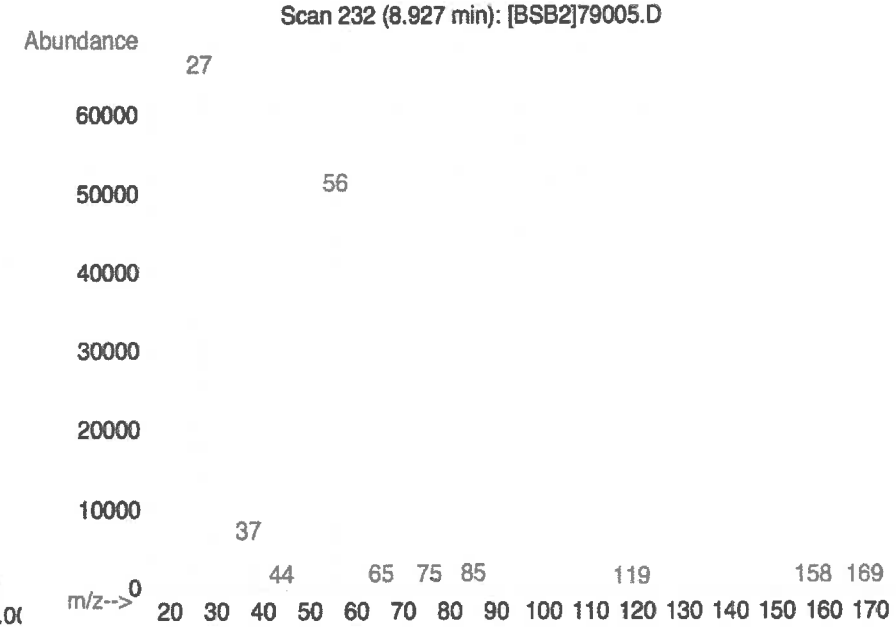
Weight(s) shown below were combined and diluted to (mL): 10.0

	010725
Formulated By: Anthony Mahoney	DATE
	010725
Reviewed By: Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05178	5011.8	52.6	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated 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 WATER**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr.	Emergency Telephone International	**1-352-323-3500**
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

P271	**Use in ventilated area**	**H315**	**Causes skin and eye irritation.**
P302,332	**If on skin, wash with soap and water**	**P280**	**Use gloves, eye protection/face sheild**
		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)
Water	CAS#: 7732-18-5	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.
Hazardous Decomposition products	Carbon oxides

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Water CAS#: 7732-18-5 TWA: 500 ppm

Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	100°C	Specific Gravity (H2O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

	NA		0°C
Vapor Density (AIR = 1)	NA	Evaporation rate (Butyl Acetate = 1)	NA

Solubility in Water — Completely miscible

Appearance and Odor — CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability — Stable under recommended storage conditions.
Possibility of hazardous reactions — NA
Conditions to avoid — NA
Materials to avoid — NA
Hazardous decomposition products - No data available

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat — NA
LC50 Inhalation - Rat — NA
LD50 Dermal - Guinea pig — NA
Causes skin irritation.
Eye irritation

Section XII. ECOLOGICAL INFORMATION

LC50 — NA
EC50 — NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods
Proper shipping name: Water

IATA
Not dangerous goods
Proper shipping name: Water

Section XV. REGULATORY INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential 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 Material 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

Dec 01/08/25

5 vial

V14823-to V14827 V14829

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 010725
Description: Acrolein

Expiration Date: 020725
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

Solvent(s): Water **Lot#** 072324Q

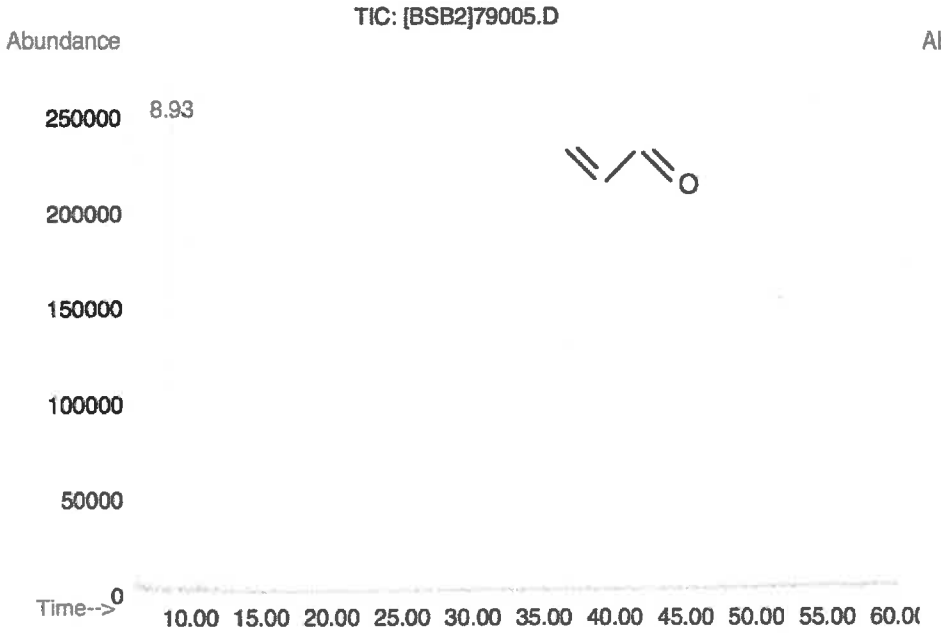
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

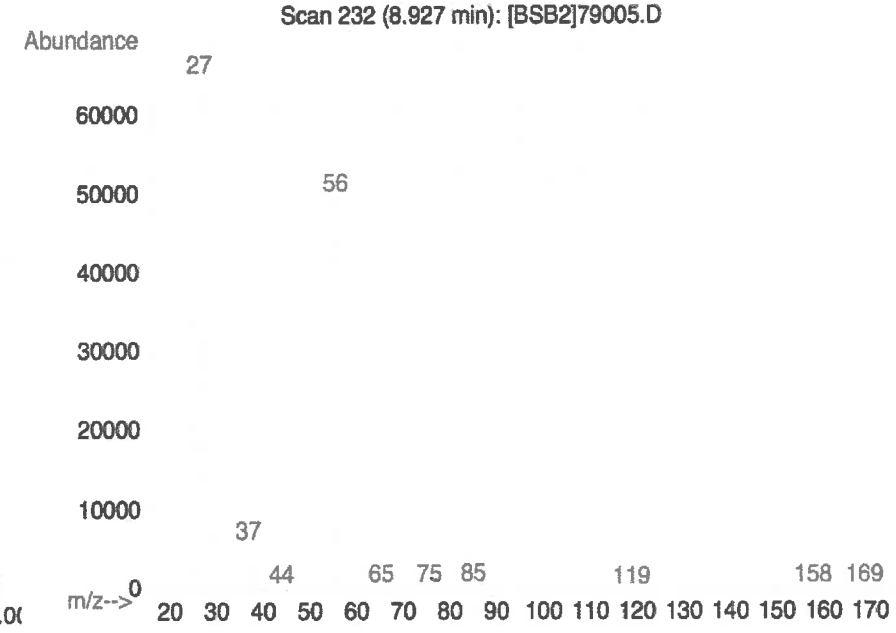
Weight(s) shown below were combined and diluted to (mL): 10.0

	010725
Formulated By: Anthony Mahoney	DATE
	010725
Reviewed By: Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05178	5011.8	52.6	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated 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 WATER**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr.	Emergency Telephone International	**1-352-323-3500**
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

P271	**Use in ventilated area**	**H315**	**Causes skin and eye irritation.**
P302,332	**If on skin, wash with soap and water**	**P280**	**Use gloves, eye protection/face sheild**
		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)
Water	CAS#: 7732-18-5	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.
Hazardous Decomposition products	Carbon oxides

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Water CAS#: 7732-18-5 TWA: 500 ppm

Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	100°C	Specific Gravity (H2O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

	NA		0°C
Vapor Density (AIR = 1)	NA	Evaporation rate (Butyl Acetate = 1)	NA

Solubility in Water — Completely miscible

Appearance and Odor — CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability — Stable under recommended storage conditions.
Possibility of hazardous reactions — NA
Conditions to avoid — NA
Materials to avoid — NA
Hazardous decomposition products - No data available

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat — NA
LC50 Inhalation - Rat — NA
LD50 Dermal - Guinea pig — NA
Causes skin irritation.
Eye irritation

Section XII. ECOLOGICAL INFORMATION

LC50 — NA
EC50 — NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods
Proper shipping name: Water

IATA
Not dangerous goods
Proper shipping name: Water

Section XV. REGULATORY INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential 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 Material Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

CERTIFIED WEIGHT REPORT

Part Number: 95317
Lot Number: 021624
Description: Universal VOA Megamix
69 components
Expiration Date: 021627
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 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

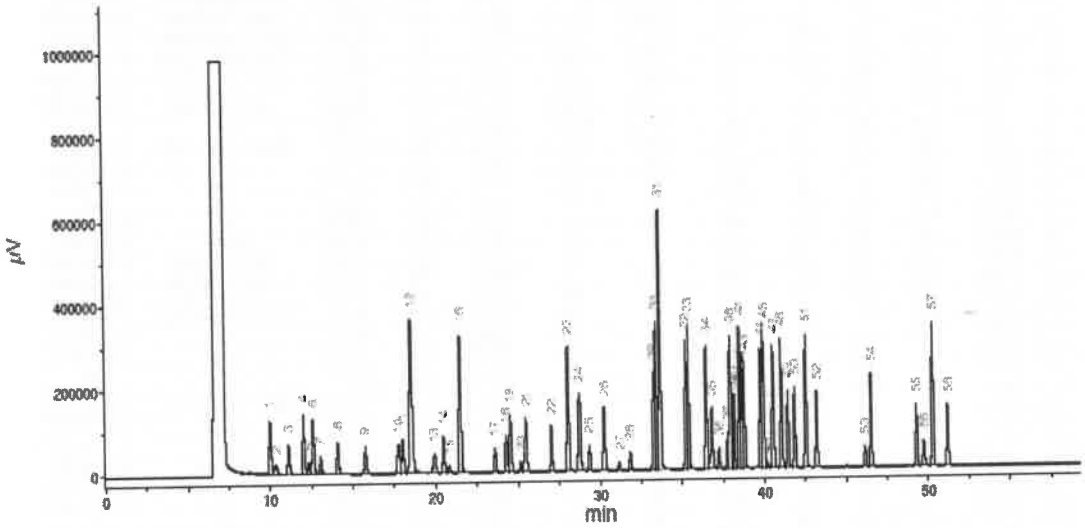
	Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(µg/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached 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 750mg/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.

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

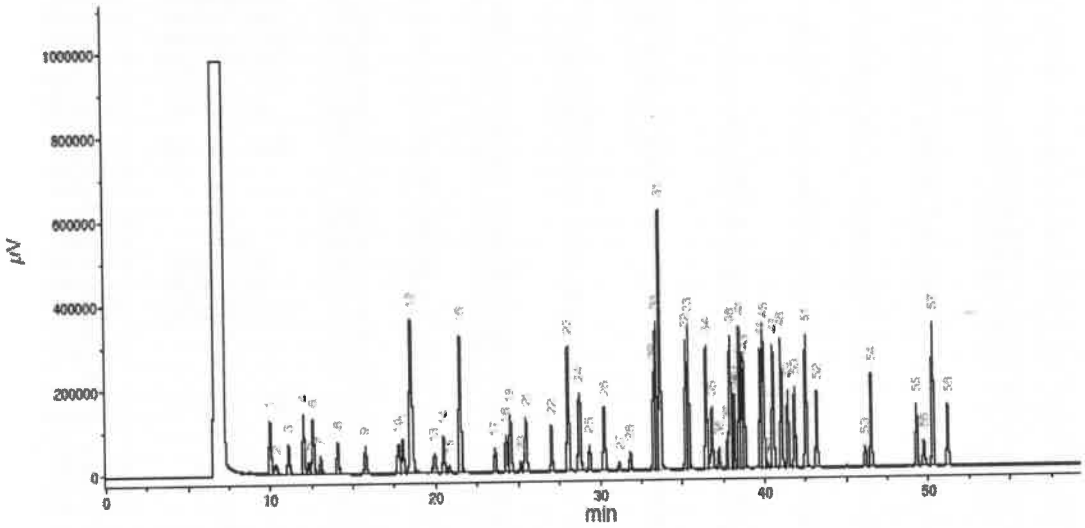
	Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(µg/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached 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	40010.0	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	40003.8	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

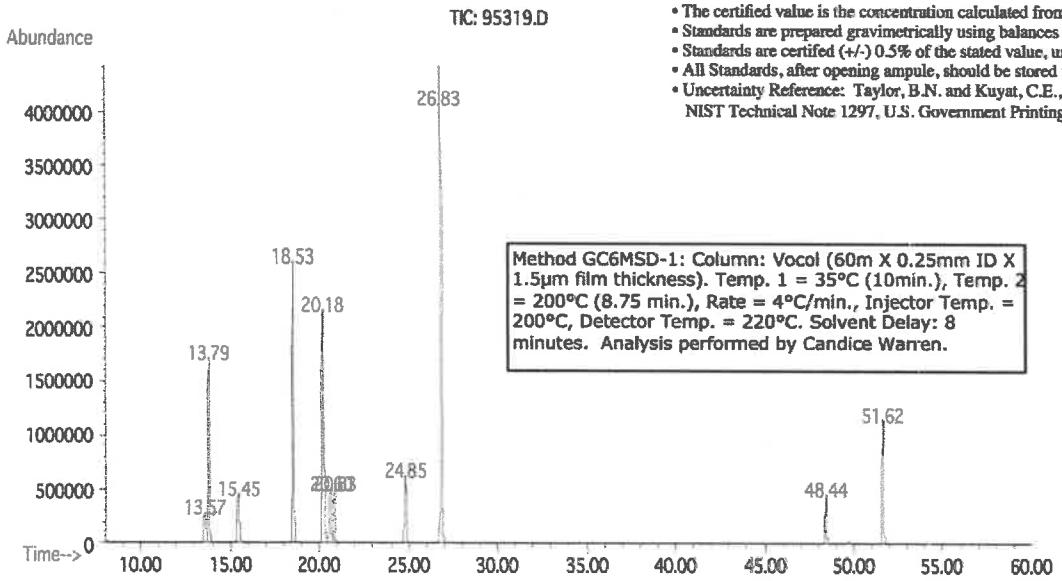
Part Number: 95319
Lot Number: 032922
Description: Revised Additions Mix
11 components
Expiration Date: 032925
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): Varied
NIST Test ID#: 6UTB 5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 100.0 0.012 Flask Uncertainty

Solvent(s): Methanol **Lot#** EC592-US

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

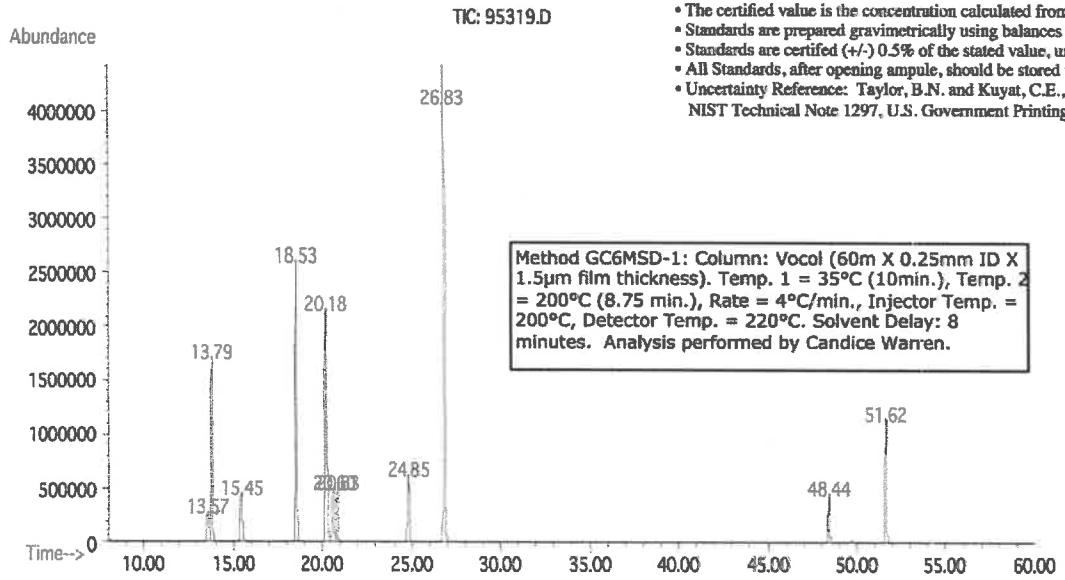
Part Number: 95319
Lot Number: 032922
Description: Revised Additions Mix
11 components
Expiration Date: 032925
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): Varied
NIST Test ID#: 6UTB

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

Rec 12/6/24
20 vial

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

Solvent(s): Methanol **Lot#** EJ143-US

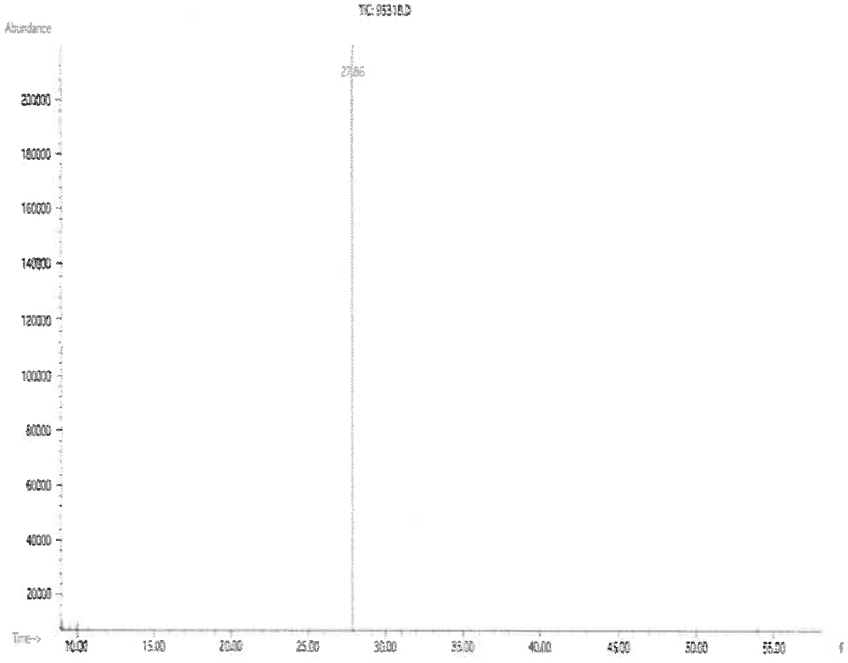
V14630 to V14649

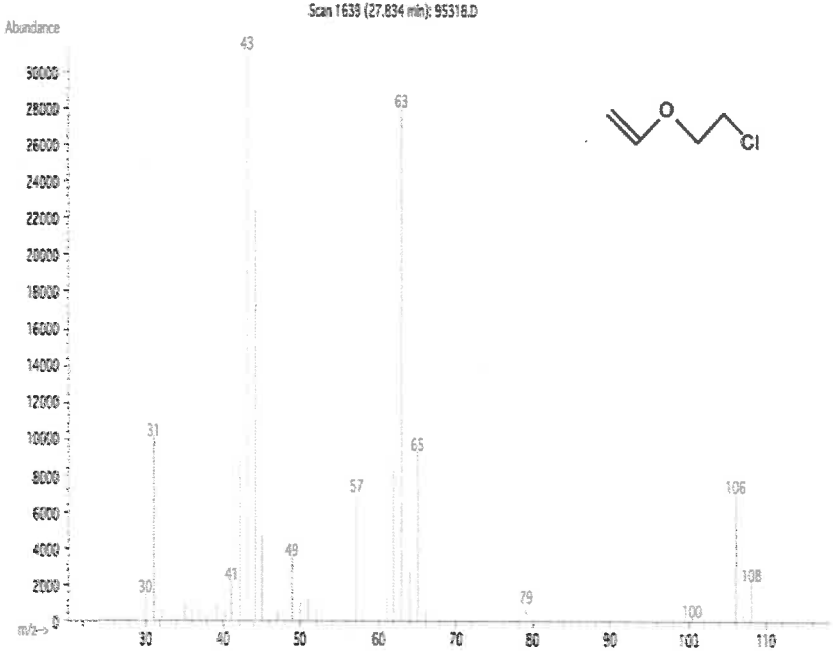
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

Formulated By:	Prashant Chauhan	120524 DATE
Reviewed By:	Pedro L. Rentas	120524 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International Date Prepared/Revised	**1-352-323-3500** January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 12/6/24
20 vial
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

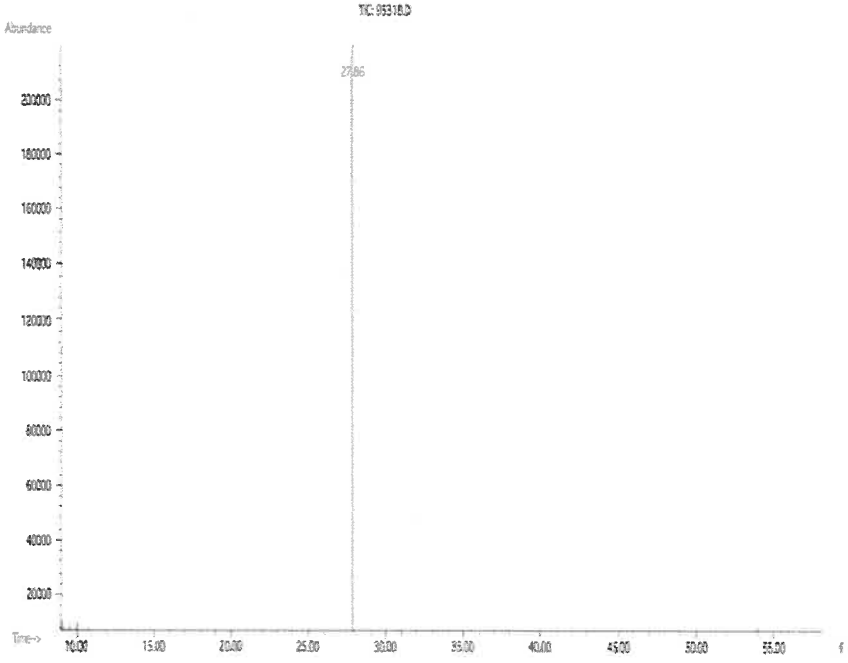
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

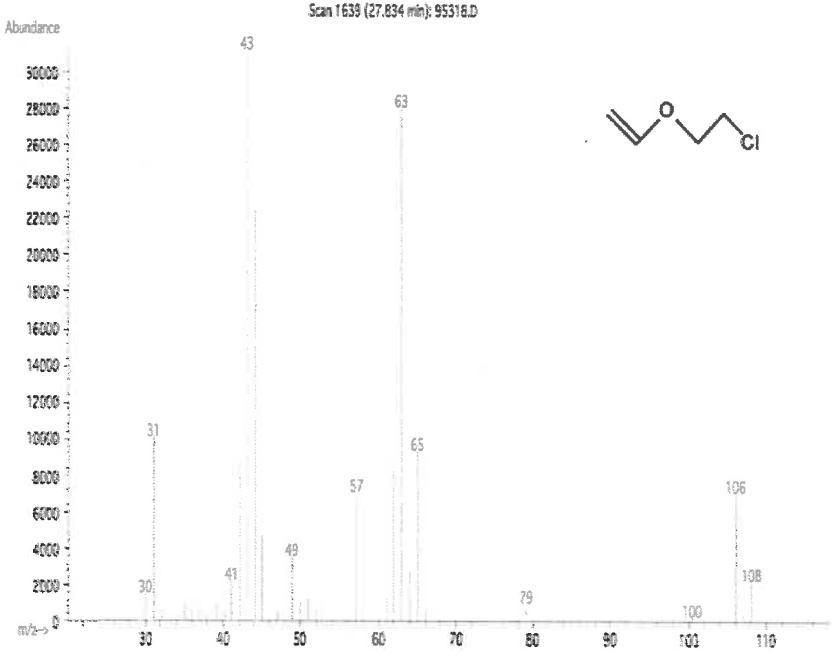
Prashant Chauhan 120524
Formulated By: Prashant Chauhan DATE

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

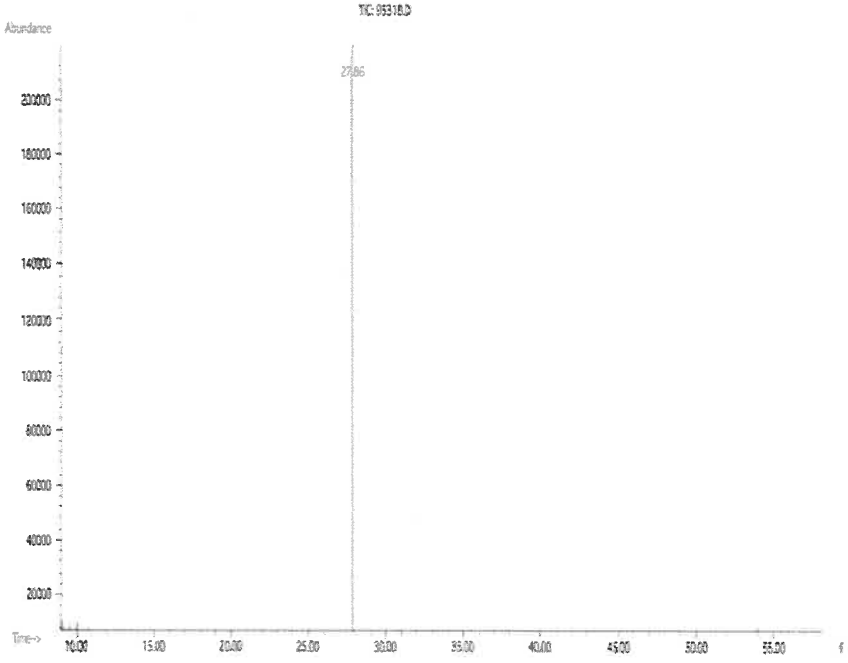
Solvent(s): Methanol **Lot#** EJ143-US

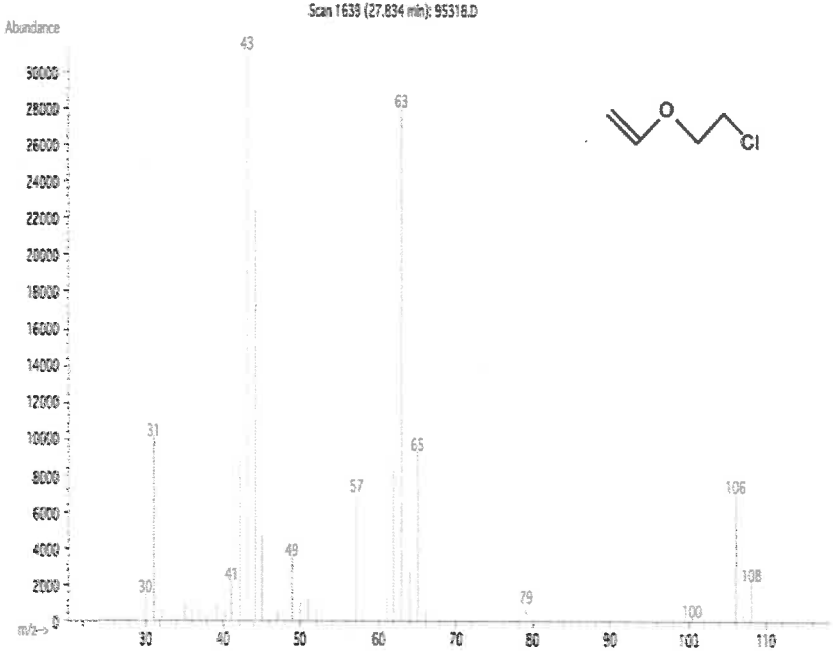
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

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

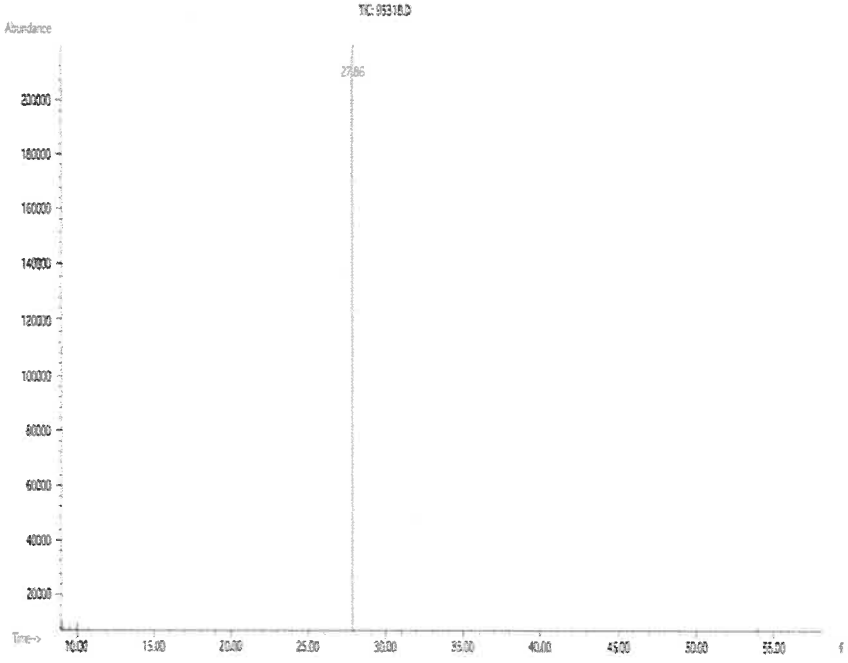
Solvent(s): Methanol **Lot#** EJ143-US

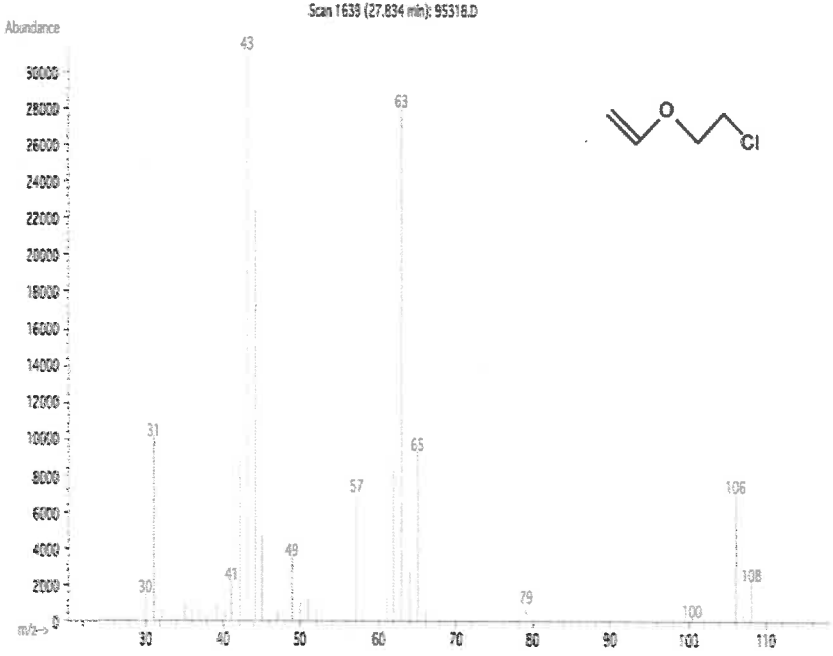
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

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.

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)

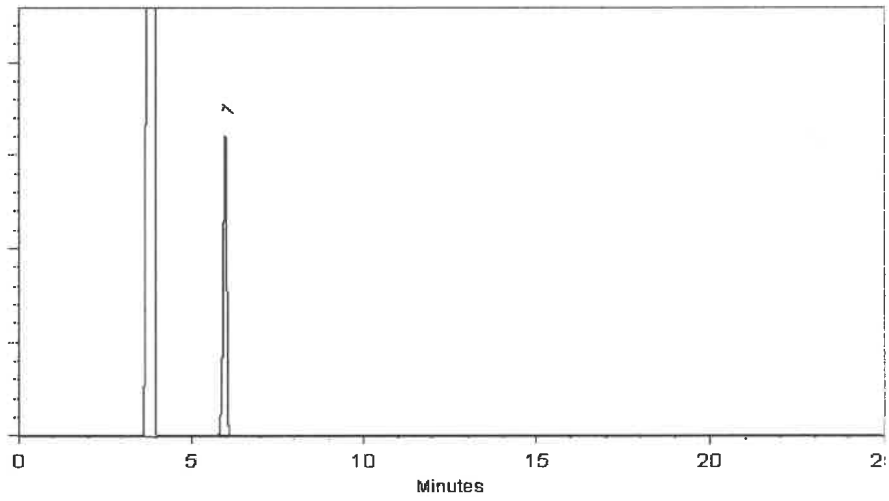
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

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.)

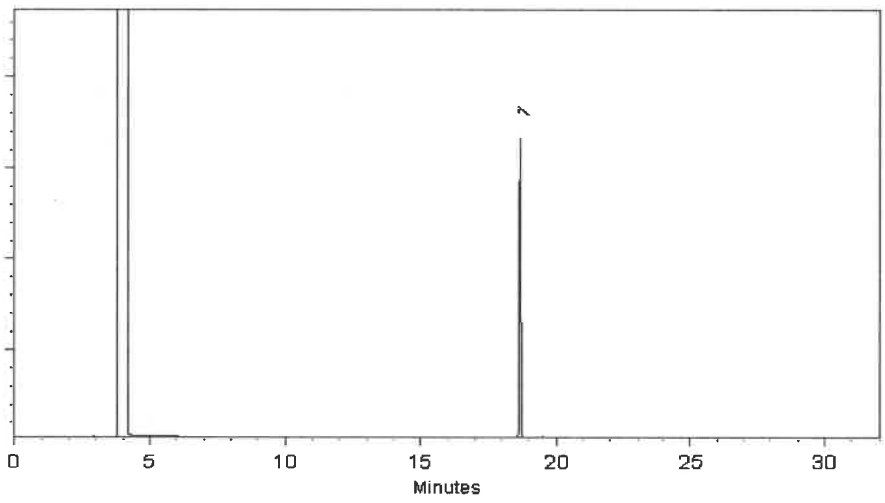
Inj. Temp:
200°C

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.)

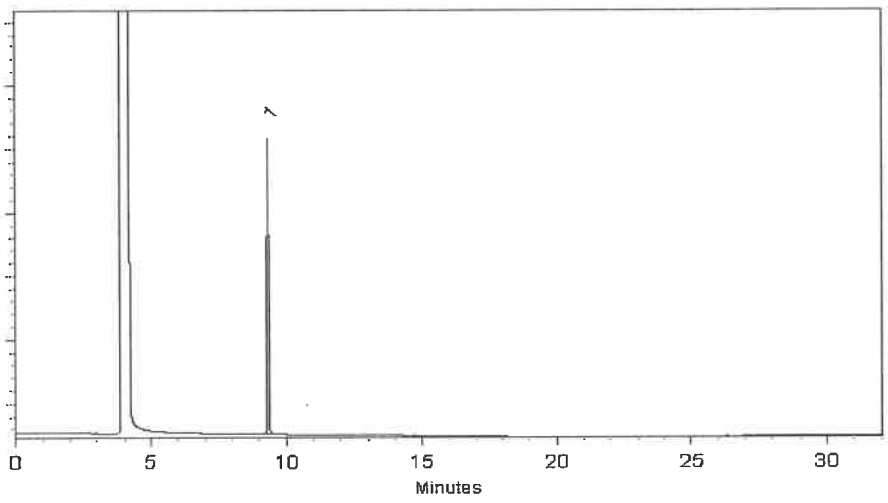
Inj. Temp:
200°C

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.)

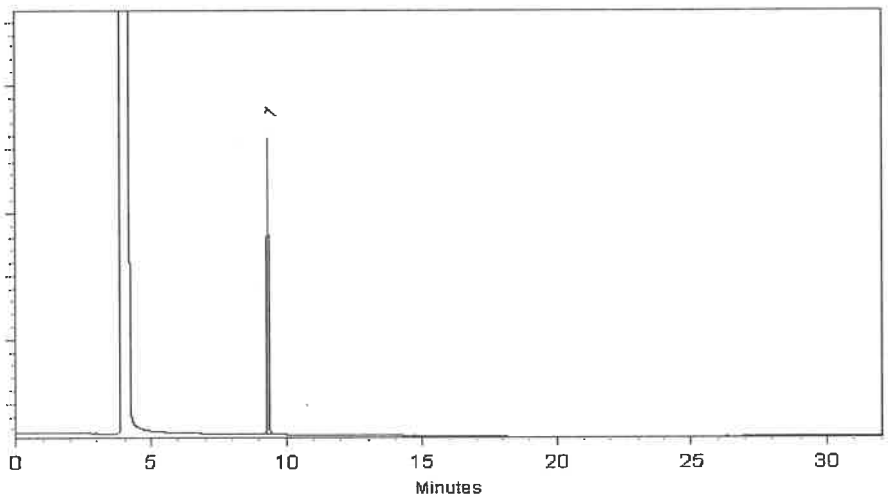
Inj. Temp:
200°C

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.)

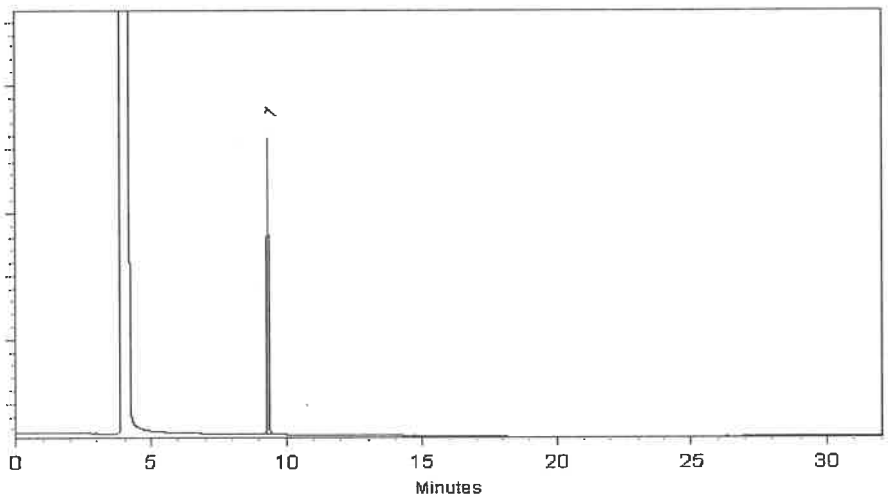
Inj. Temp:
200°C

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.)

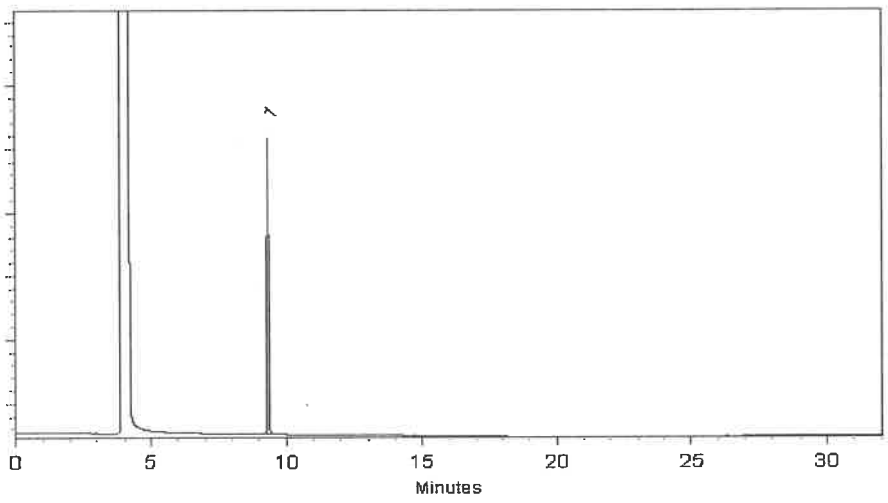
Inj. Temp:
200°C

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

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.

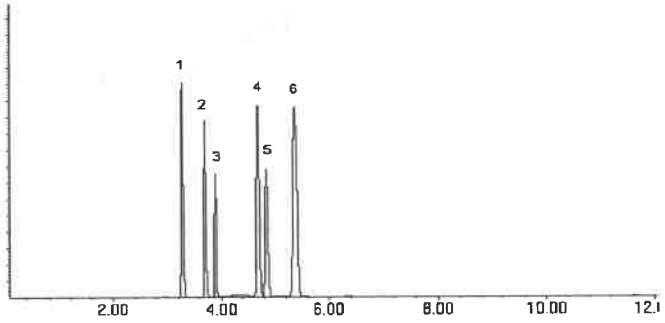
Inj. Temp:
200°C

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. : 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.)

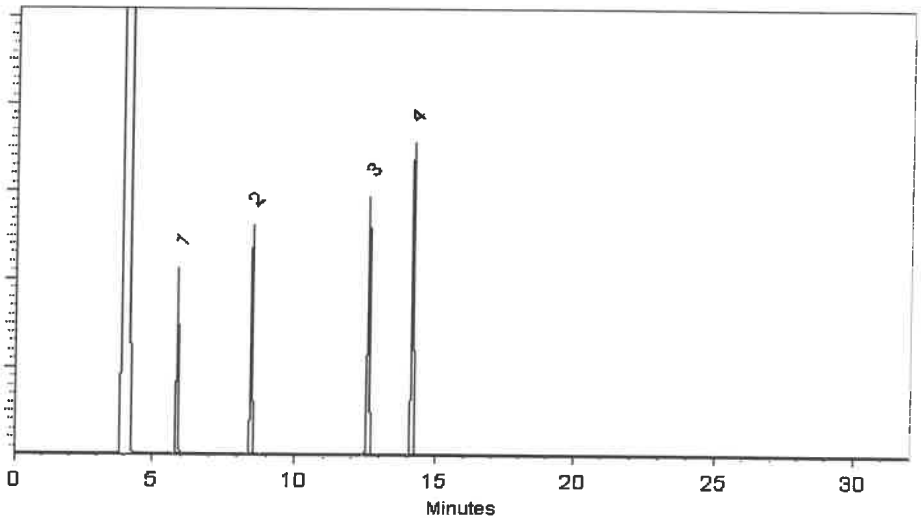
Inj. Temp:
200°C

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.)

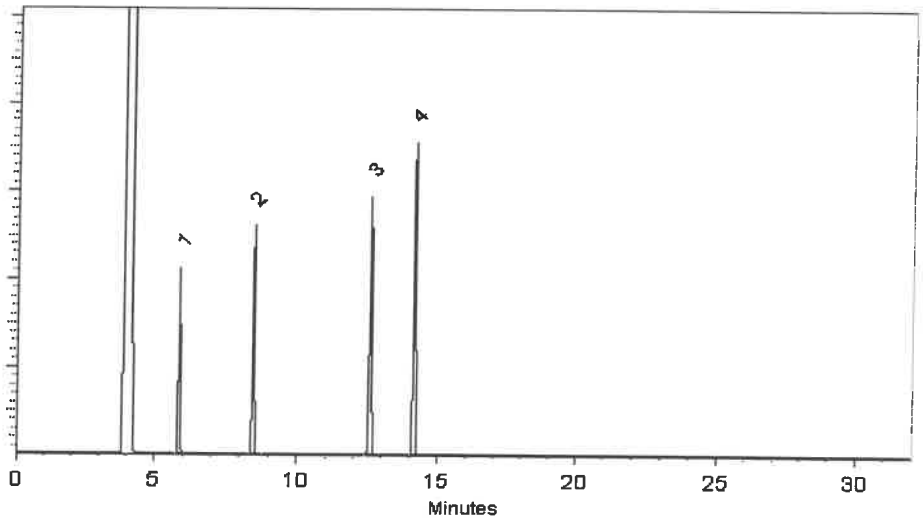
Inj. Temp:
200°C

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.)

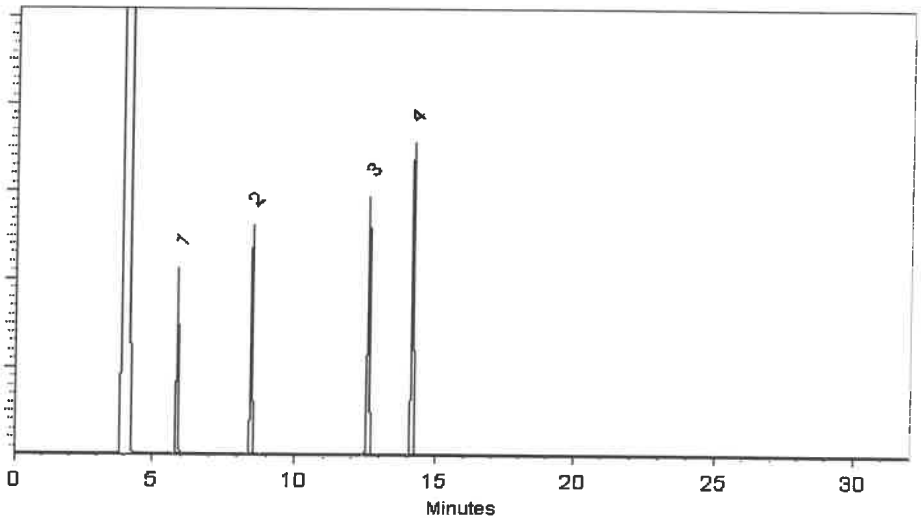
Inj. Temp:
200°C

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.

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.)

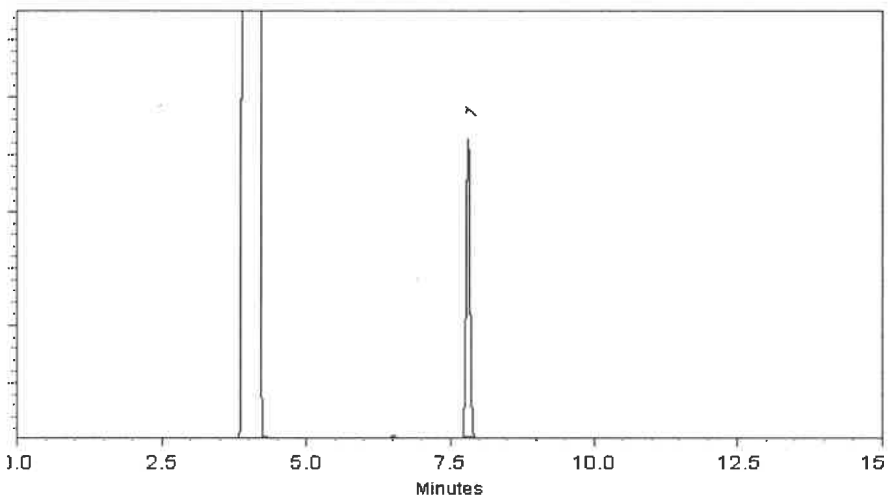
Inj. Temp:
200°C

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.

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.)

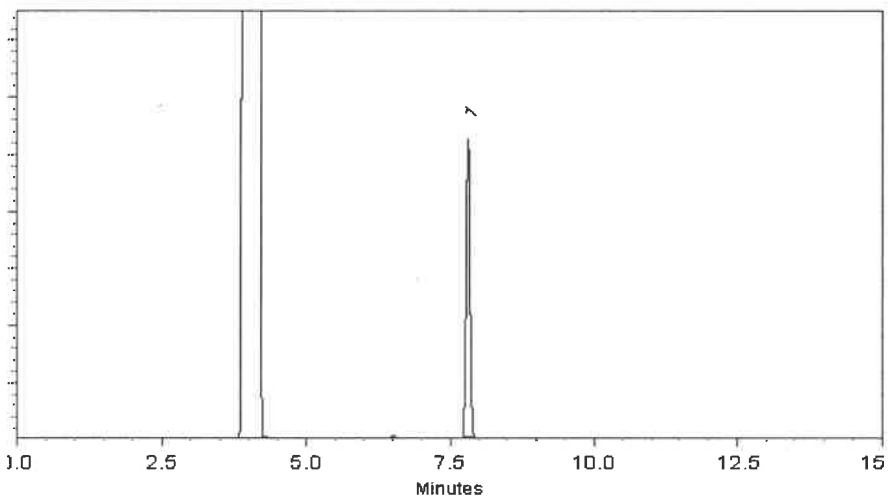
Inj. Temp:
200°C

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 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.)

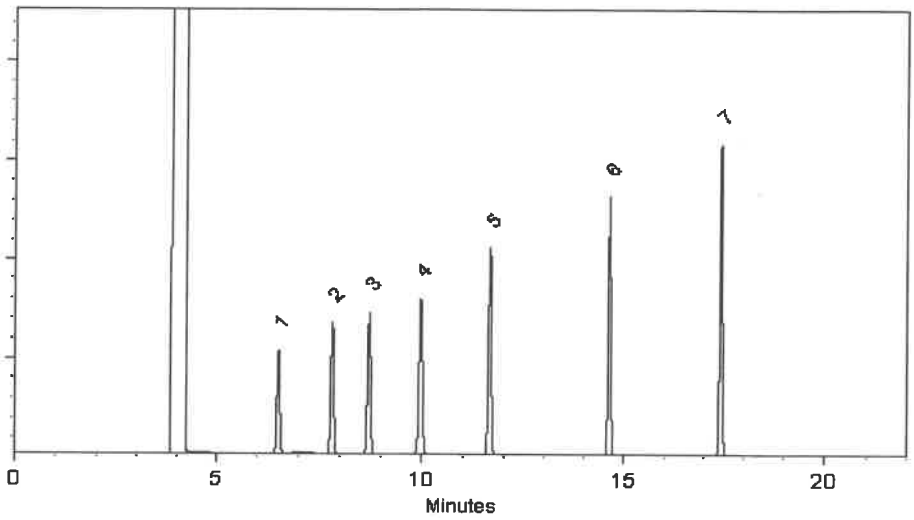
Inj. Temp:
200°C

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.)

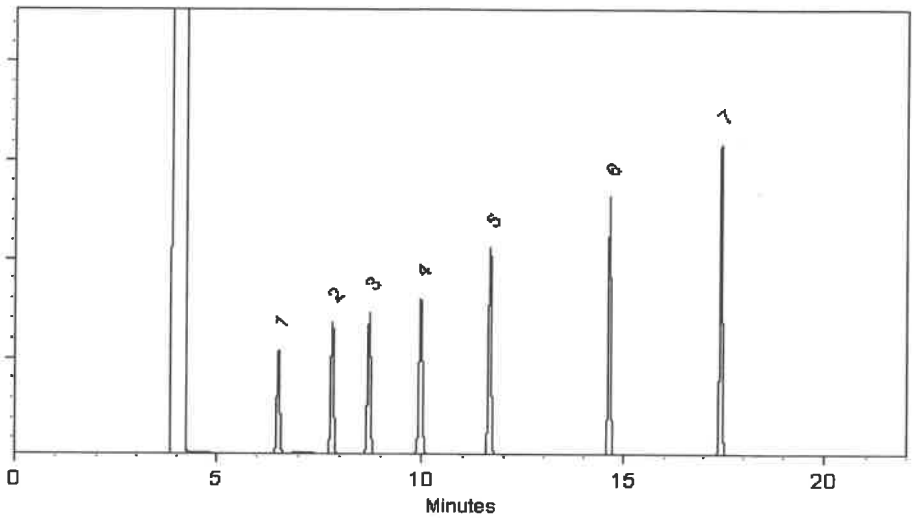
Inj. Temp:
200°C

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.

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

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011325\
Data File : VN085432.D
Acq On : 13 Jan 2025 17:30
Operator : JC\MD
Sample : Q1062-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190A-TB-20250107

Quant Time: Jan 13 17:46:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
Quant Title : SW846 8260
QLast Update : Sat Dec 28 01:36:16 2024
Response via : Initial Calibration

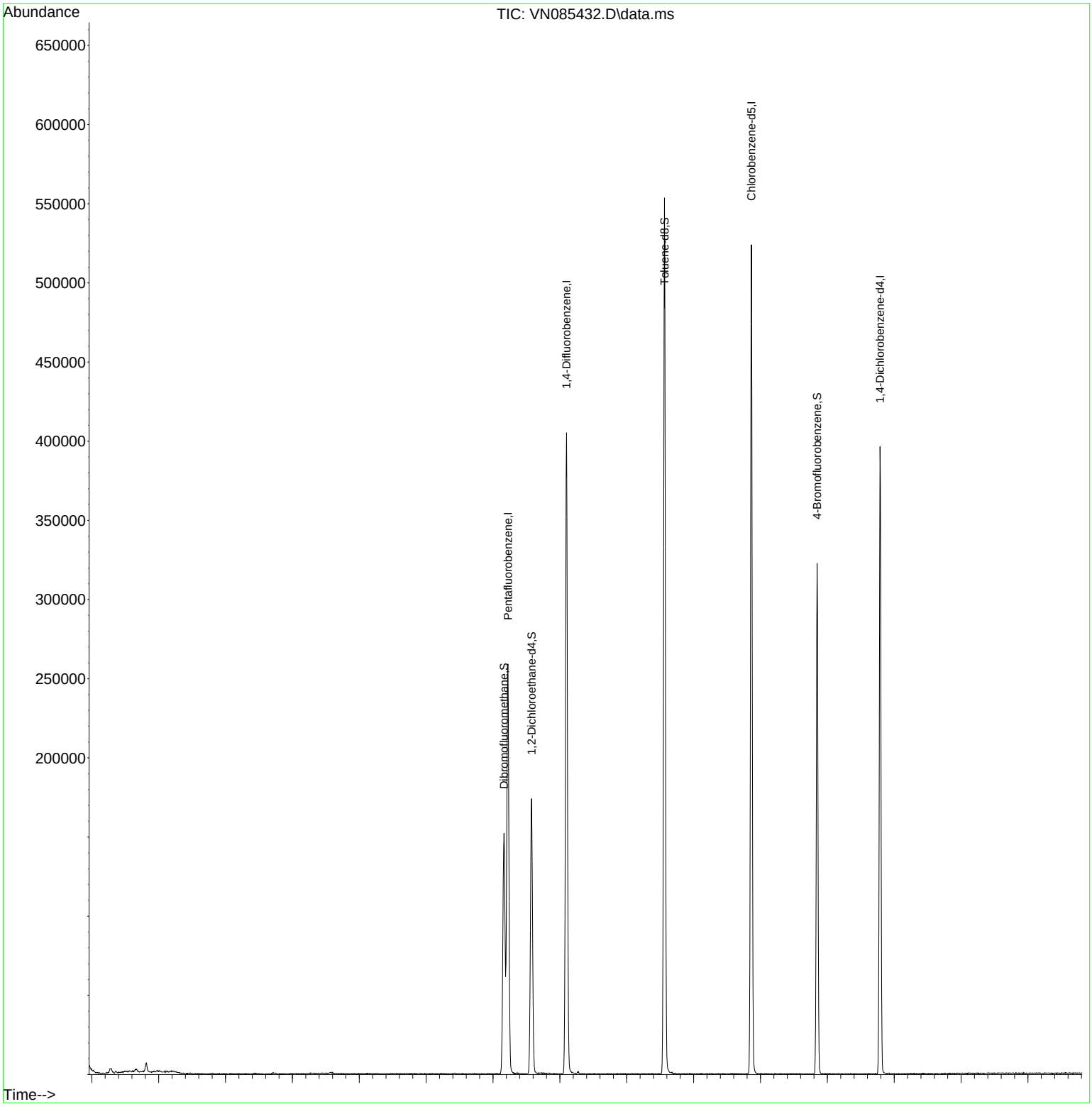
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	174662	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	325733	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	274916	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	102139	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.576	65	144408	57.968	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 115.940%			
35) Dibromofluoromethane	8.165	113	107333	52.819	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.640%			
50) Toluene-d8	10.565	98	359238	48.175	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 96.360%			
62) 4-Bromofluorobenzene	12.847	95	104988	42.394	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 84.780%			
Target Compounds						Qvalue

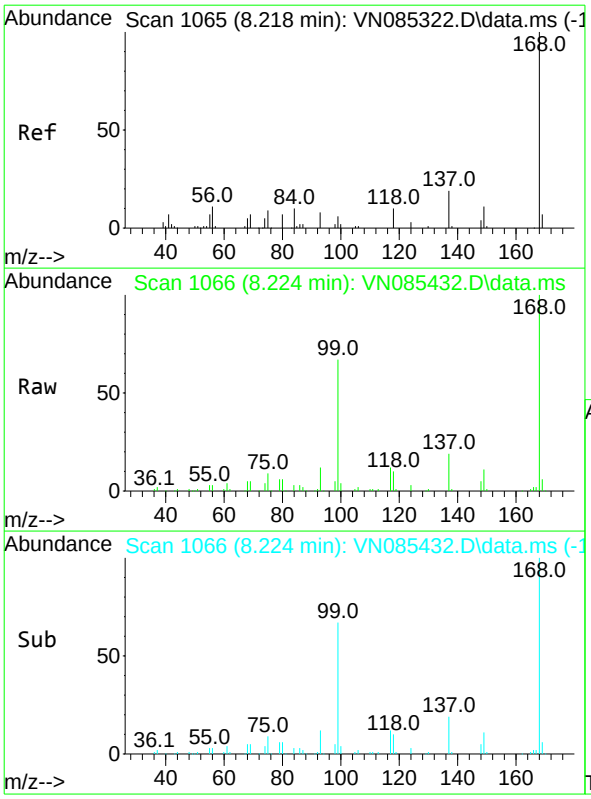
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011325\
Data File : VN085432.D
Acq On : 13 Jan 2025 17:30
Operator : JC\MD
Sample : Q1062-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190A-TB-20250107

Quant Time: Jan 13 17:46:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
Quant Title : SW846 8260
QLast Update : Sat Dec 28 01:36:16 2024
Response via : Initial Calibration



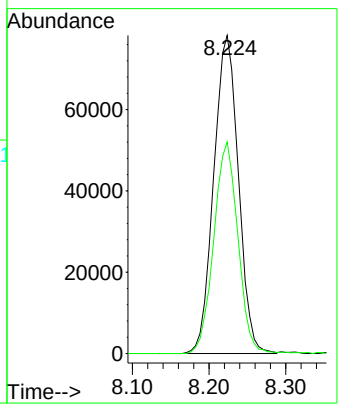


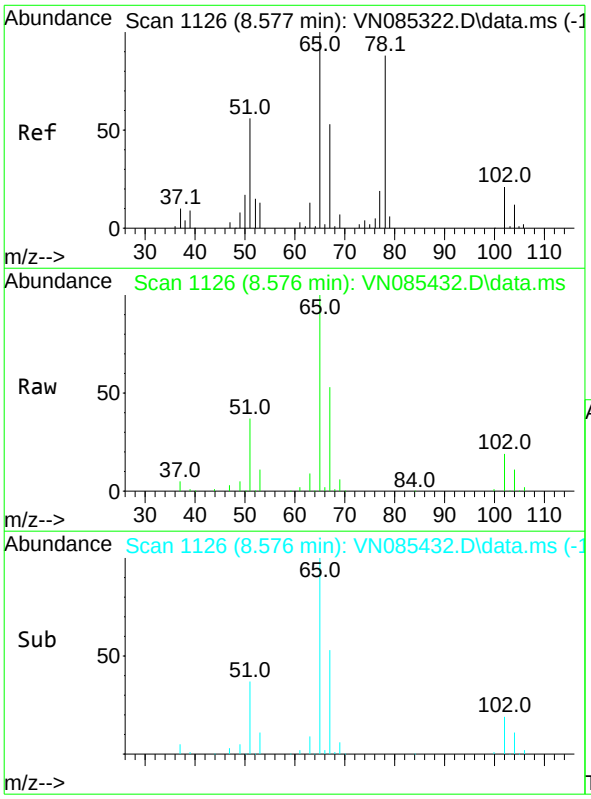
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085432.D
Acq: 13 Jan 2025 17:30

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190A-TB-20250107

Tgt Ion:168 Resp: 174662

Ion	Ratio	Lower	Upper
168	100		
99	66.5	51.0	76.4

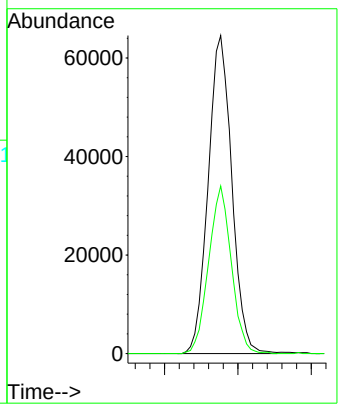


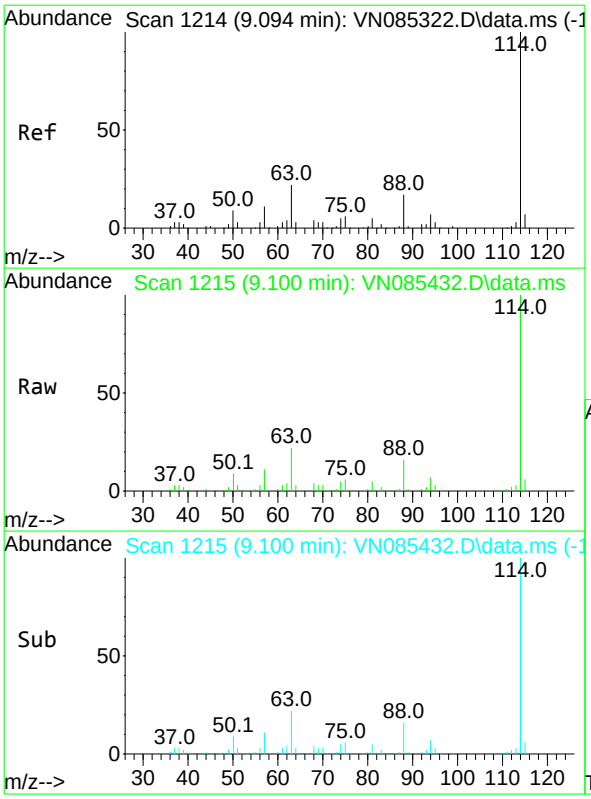


#33
1,2-Dichloroethane-d4
Concen: 57.968 ug/l
RT: 8.576 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN085432.D
Acq: 13 Jan 2025 17:30

Tgt Ion: 65 Resp: 144408

Ion	Ratio	Lower	Upper
65	100		
67	50.5	0.0	104.0



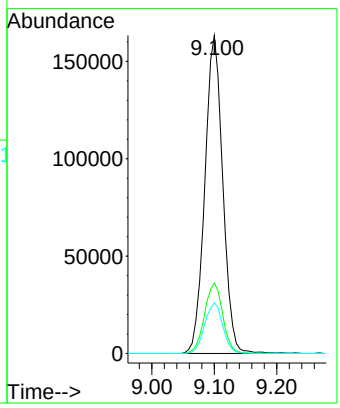


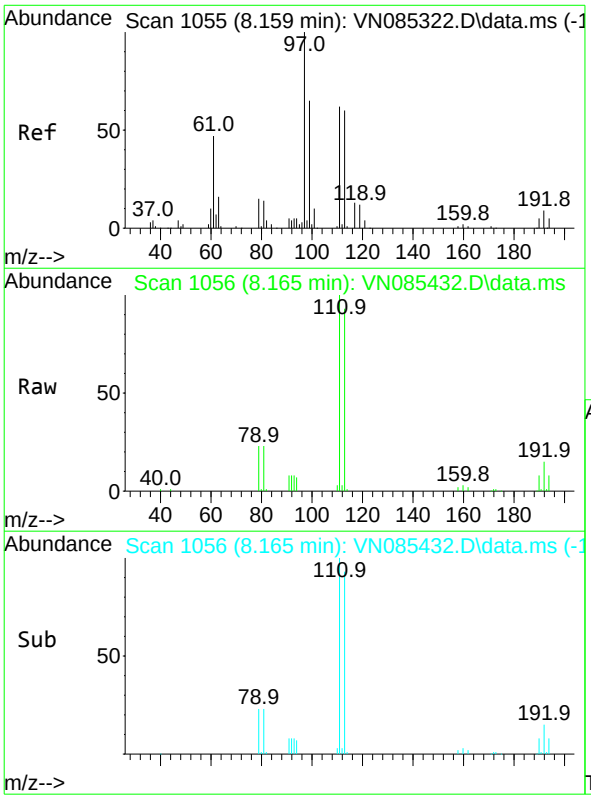
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 12
Delta R.T. 0.006 min
Lab File: VN085432.D
Acq: 13 Jan 2025 17:30

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190A-TB-20250107

Tgt Ion:114 Resp: 325733

Ion	Ratio	Lower	Upper
114	100		
63	22.2	0.0	43.4
88	15.9	0.0	33.6

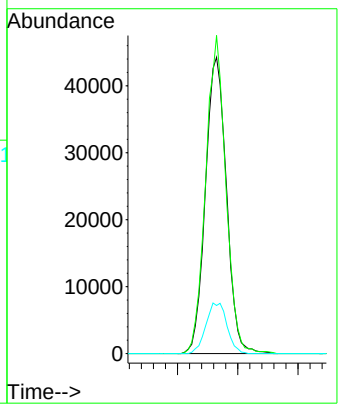


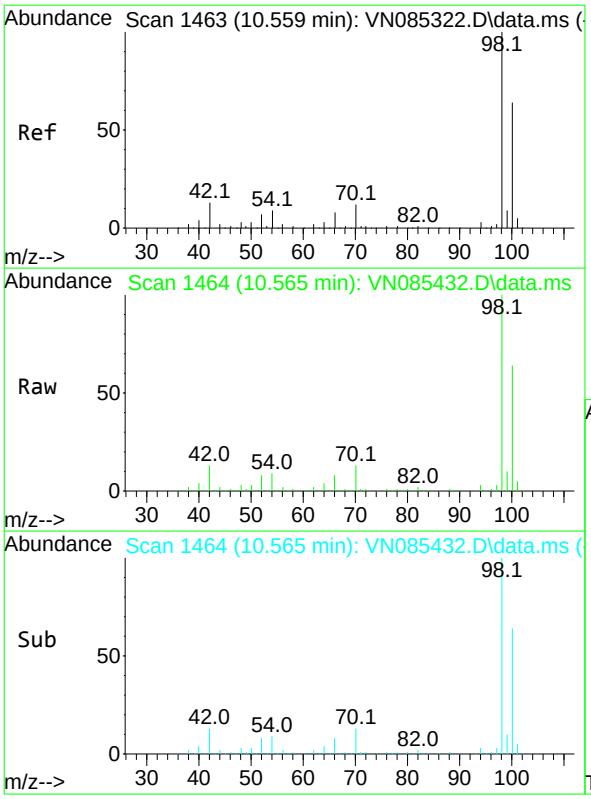


#35
Dibromofluoromethane
Concen: 52.819 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VN085432.D
Acq: 13 Jan 2025 17:30

Tgt Ion:113 Resp: 107333

Ion	Ratio	Lower	Upper
113	100		
111	102.8	80.5	120.7
192	17.1	12.9	19.3



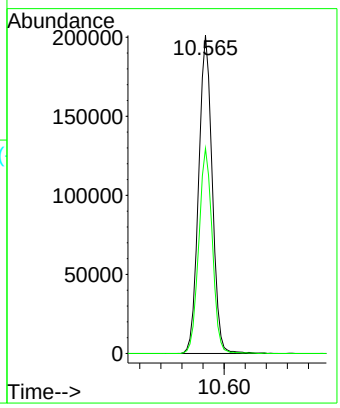


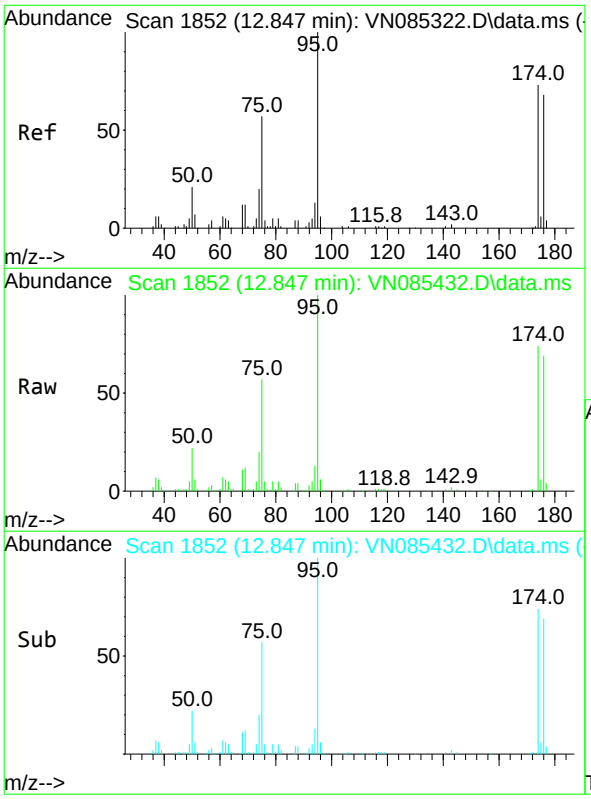
#50
Toluene-d8
Concen: 48.175 ug/l
RT: 10.565 min Scan# 14
Delta R.T. 0.006 min
Lab File: VN085432.D
Acq: 13 Jan 2025 17:30

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190A-TB-20250107

Tgt Ion: 98 Resp: 359238

Ion	Ratio	Lower	Upper
98	100		
100	64.2	51.5	77.3

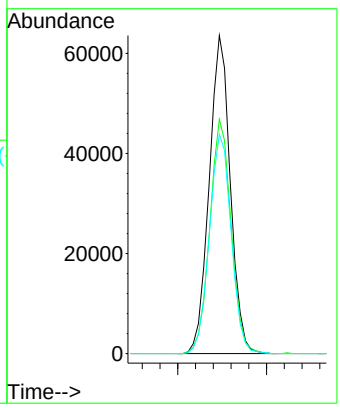


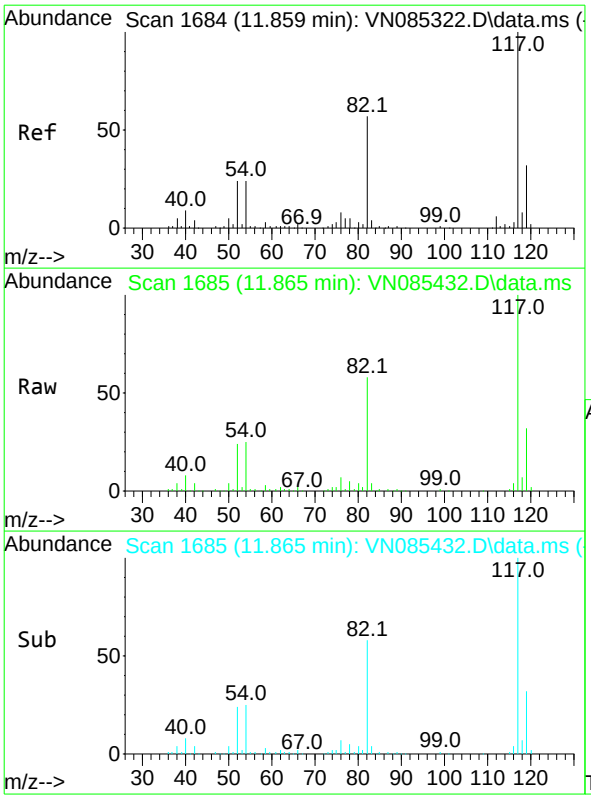


#62
4-Bromofluorobenzene
Concen: 42.394 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085432.D
Acq: 13 Jan 2025 17:30

Tgt Ion: 95 Resp: 104988

Ion	Ratio	Lower	Upper
95	100		
174	74.6	0.0	143.2
176	71.1	0.0	135.8



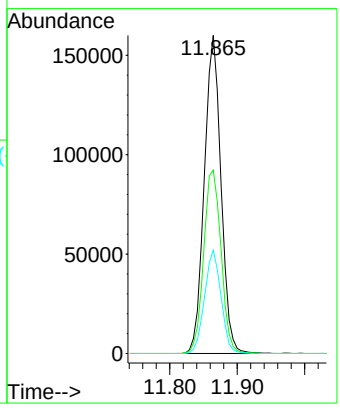


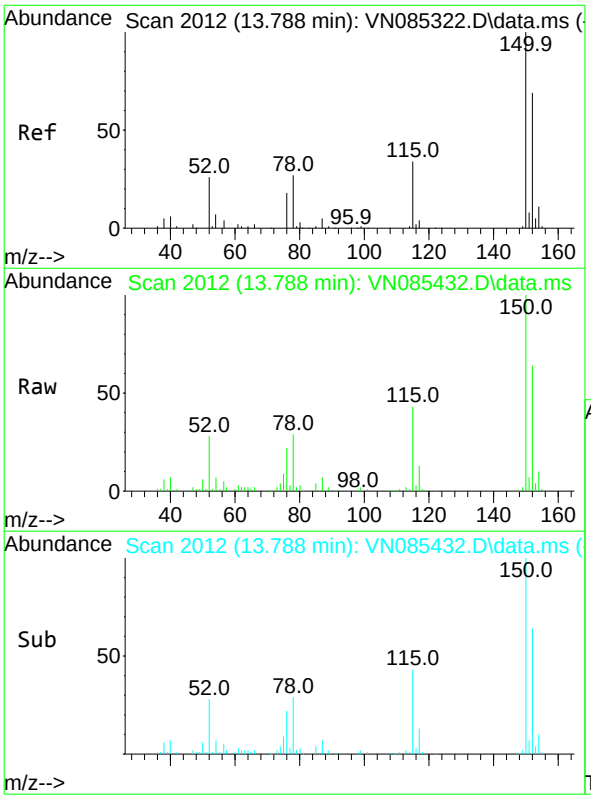
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 16
Delta R.T. 0.006 min
Lab File: VN085432.D
Acq: 13 Jan 2025 17:30

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190A-TB-20250107

Tgt Ion:117 Resp: 274916

Ion	Ratio	Lower	Upper
117	100		
82	57.7	45.7	68.5
119	32.5	25.8	38.8

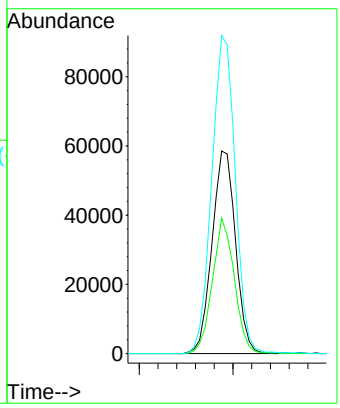




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN085432.D
Acq: 13 Jan 2025 17:30

Tgt Ion:152 Resp: 102139

Ion	Ratio	Lower	Upper
152	100		
115	62.2	30.4	91.3
150	156.9	0.0	345.0



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011325\
Data File : VN085431.D
Acq On : 13 Jan 2025 17:06
Operator : JC\MD
Sample : Q1062-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VPB190A-HYD-20250107

Quant Time: Jan 13 17:22:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
Quant Title : SW846 8260
QLast Update : Sat Dec 28 01:36:16 2024
Response via : Initial Calibration

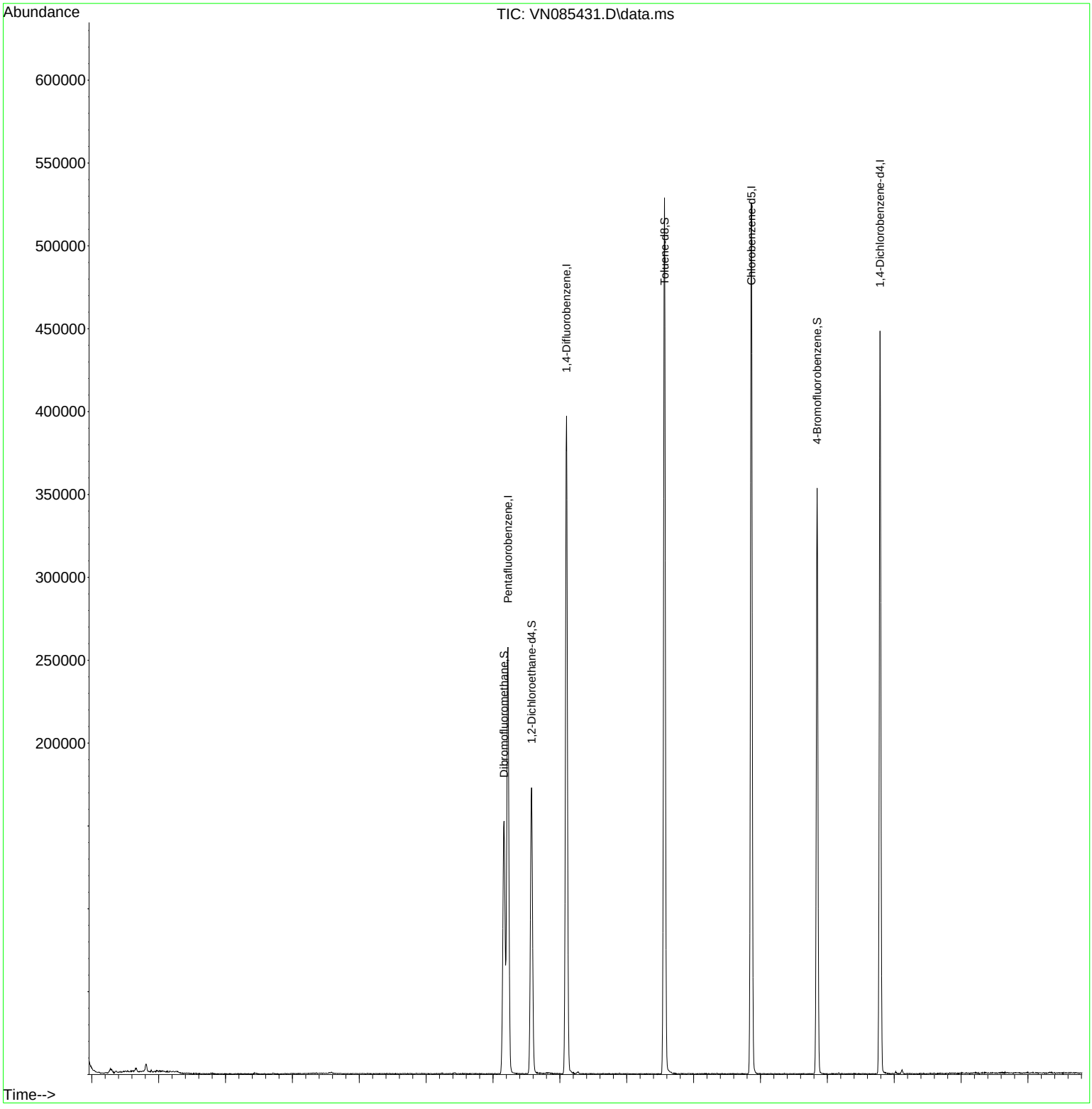
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	171762	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	321172	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	285304	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	114295	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	144844	59.124	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 118.240%			
35) Dibromofluoromethane	8.165	113	109949	54.874	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 109.740%			
50) Toluene-d8	10.565	98	353662	48.101	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 96.200%			
62) 4-Bromofluorobenzene	12.847	95	117799	48.242	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 96.480%			
Target Compounds						Qvalue

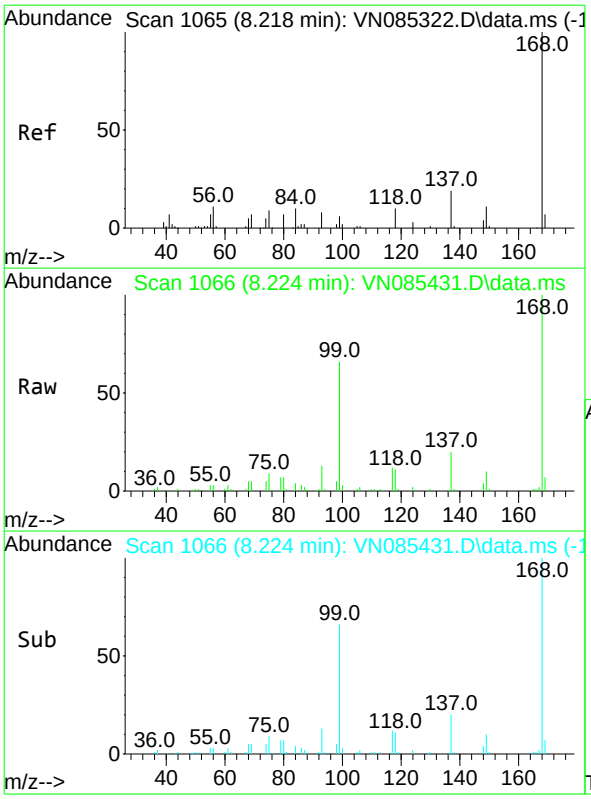
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011325\
Data File : VN085431.D
Acq On : 13 Jan 2025 17:06
Operator : JC\MD
Sample : Q1062-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VPB190A-HYD-20250107

Quant Time: Jan 13 17:22:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
Quant Title : SW846 8260
QLast Update : Sat Dec 28 01:36:16 2024
Response via : Initial Calibration



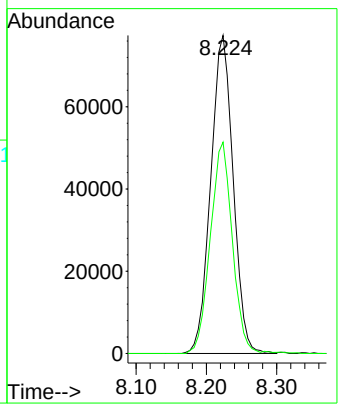


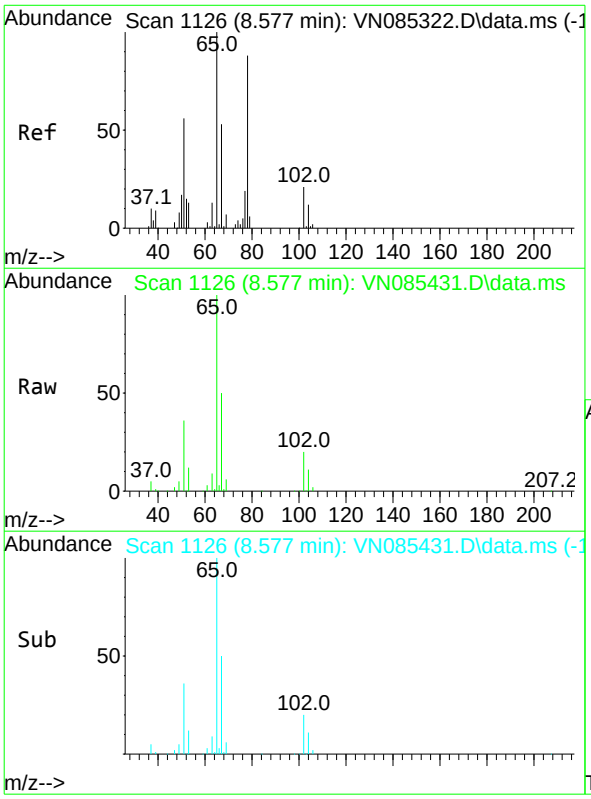
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085431.D
Acq: 13 Jan 2025 17:06

Instrument :
MSVOA_N
ClientSampleId :
VPB190A-HYD-20250107

Tgt Ion:168 Resp: 171762

Ion	Ratio	Lower	Upper
168	100		
99	66.4	51.0	76.4

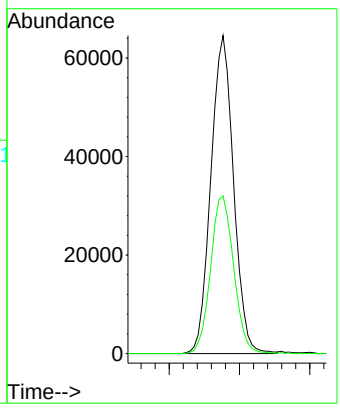


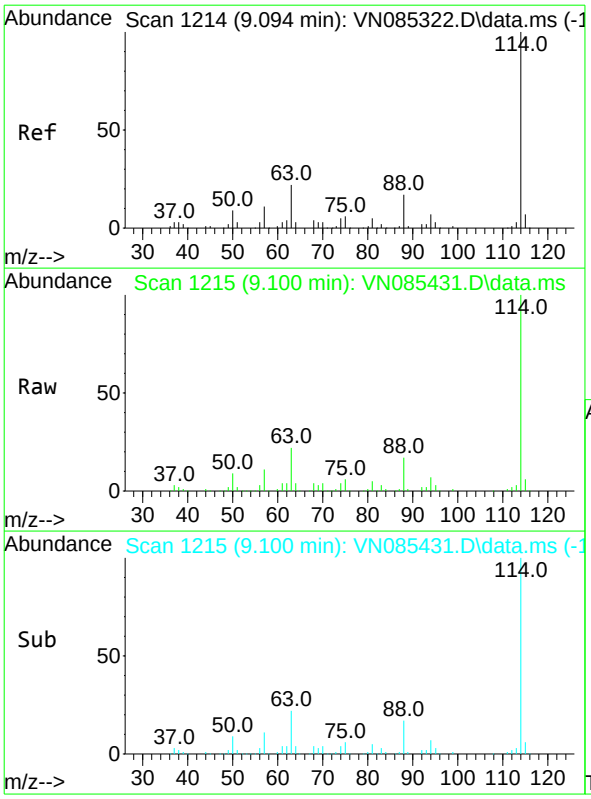


#33
1,2-Dichloroethane-d4
Concen: 59.124 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VN085431.D
Acq: 13 Jan 2025 17:06

Tgt Ion: 65 Resp: 144844

Ion	Ratio	Lower	Upper
65	100		
67	50.4	0.0	104.0



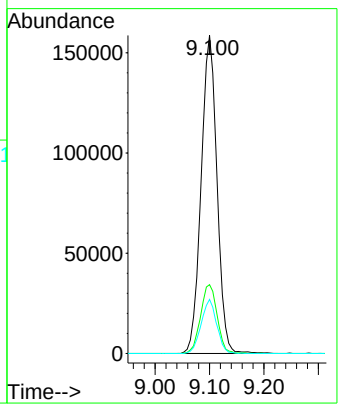


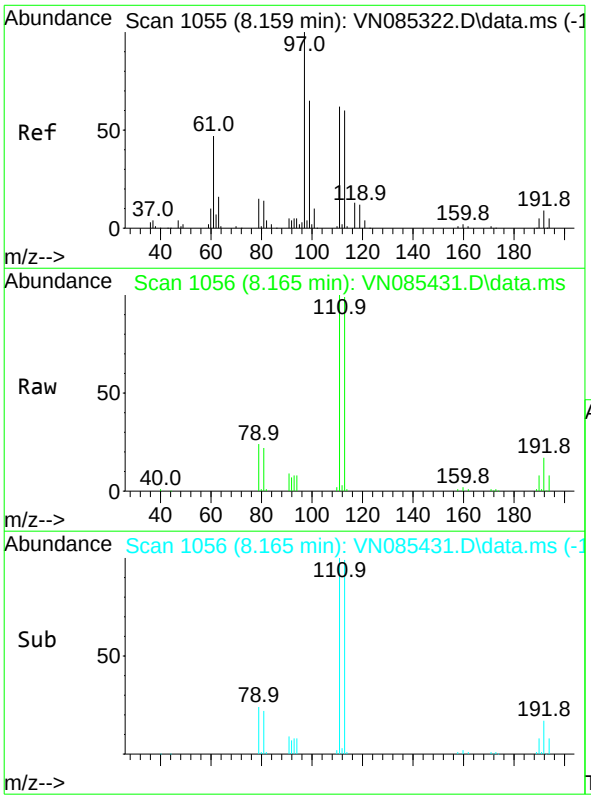
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 12
Delta R.T. 0.006 min
Lab File: VN085431.D
Acq: 13 Jan 2025 17:06

Instrument :
MSVOA_N
ClientSampleId :
VPB190A-HYD-20250107

Tgt Ion:114 Resp: 321172

Ion	Ratio	Lower	Upper
114	100		
63	21.6	0.0	43.4
88	17.0	0.0	33.6

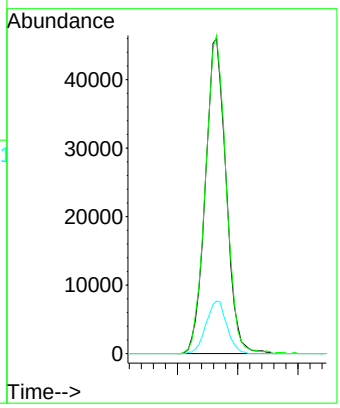


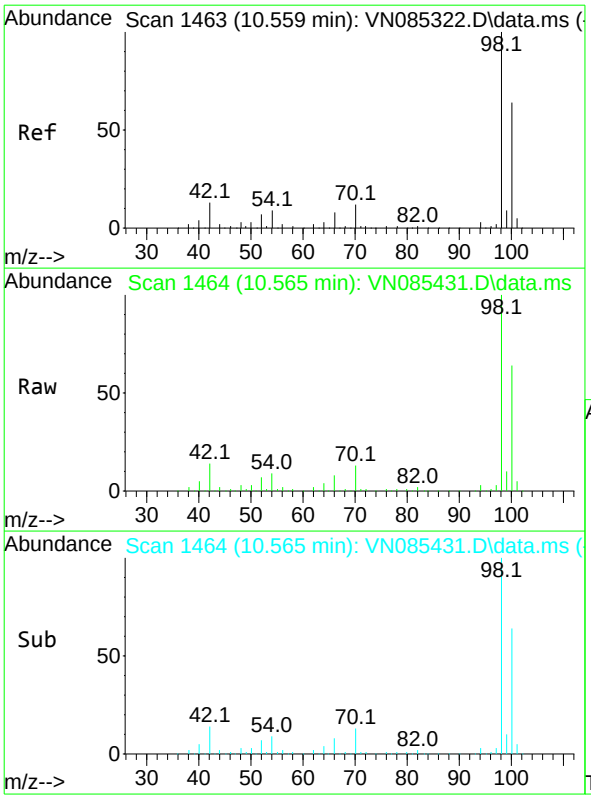


#35
Dibromofluoromethane
Concen: 54.874 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VN085431.D
Acq: 13 Jan 2025 17:06

Tgt Ion:113 Resp: 109949

Ion	Ratio	Lower	Upper
113	100		
111	101.1	80.5	120.7
192	16.7	12.9	19.3



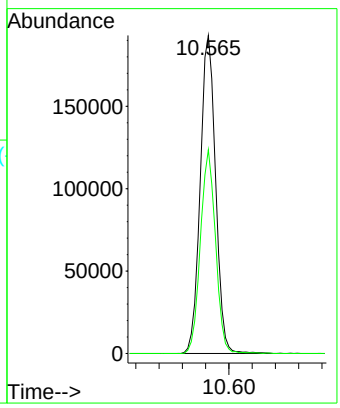


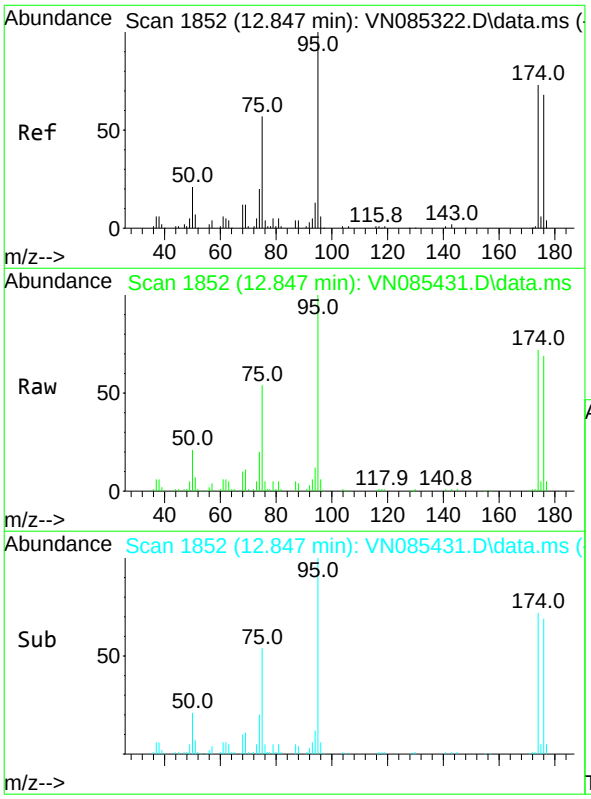
#50
Toluene-d8
Concen: 48.101 ug/l
RT: 10.565 min Scan# 14
Delta R.T. 0.006 min
Lab File: VN085431.D
Acq: 13 Jan 2025 17:06

Instrument :
MSVOA_N
ClientSampleId :
VPB190A-HYD-20250107

Tgt Ion: 98 Resp: 353662

Ion	Ratio	Lower	Upper
98	100		
100	63.1	51.5	77.3

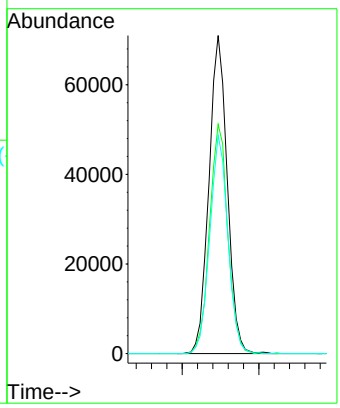


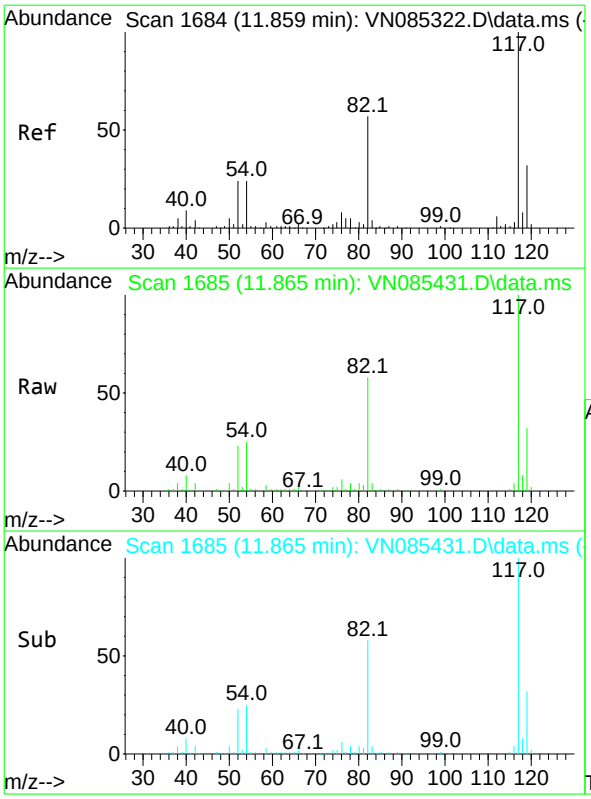


#62
4-Bromofluorobenzene
Concen: 48.242 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085431.D
Acq: 13 Jan 2025 17:06

Tgt Ion: 95 Resp: 117799

Ion	Ratio	Lower	Upper
95	100		
174	71.8	0.0	143.2
176	67.7	0.0	135.8



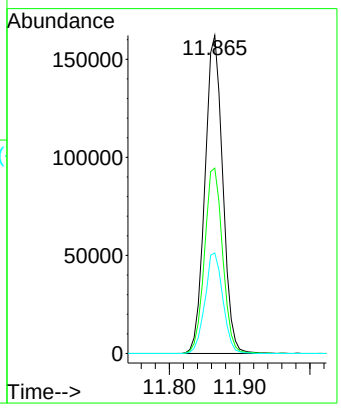


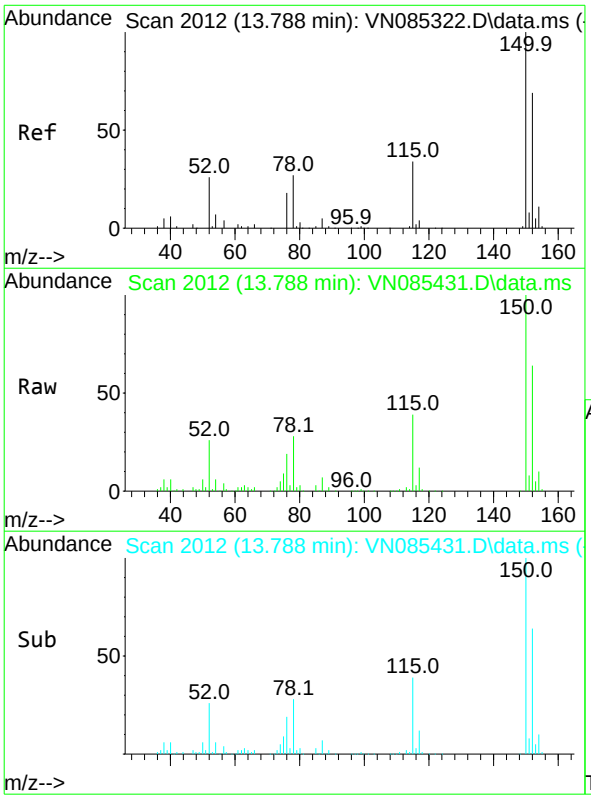
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 16
Delta R.T. 0.006 min
Lab File: VN085431.D
Acq: 13 Jan 2025 17:06

Instrument :
MSVOA_N
ClientSampleId :
VPB190A-HYD-20250107

Tgt Ion:117 Resp: 285304

Ion	Ratio	Lower	Upper
117	100		
82	58.3	45.7	68.5
119	31.6	25.8	38.8

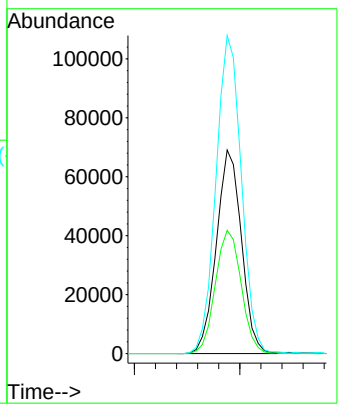




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN085431.D
Acq: 13 Jan 2025 17:06

Tgt Ion:152 Resp: 114295

Ion	Ratio	Lower	Upper
152	100		
115	62.3	30.4	91.3
150	158.4	0.0	345.0



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011325\
Data File : VN085433.D
Acq On : 13 Jan 2025 17:54
Operator : JC\MD
Sample : Q1062-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190A-EB-20250107

Quant Time: Jan 13 18:11:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
Quant Title : SW846 8260
QLast Update : Sat Dec 28 01:36:16 2024
Response via : Initial Calibration

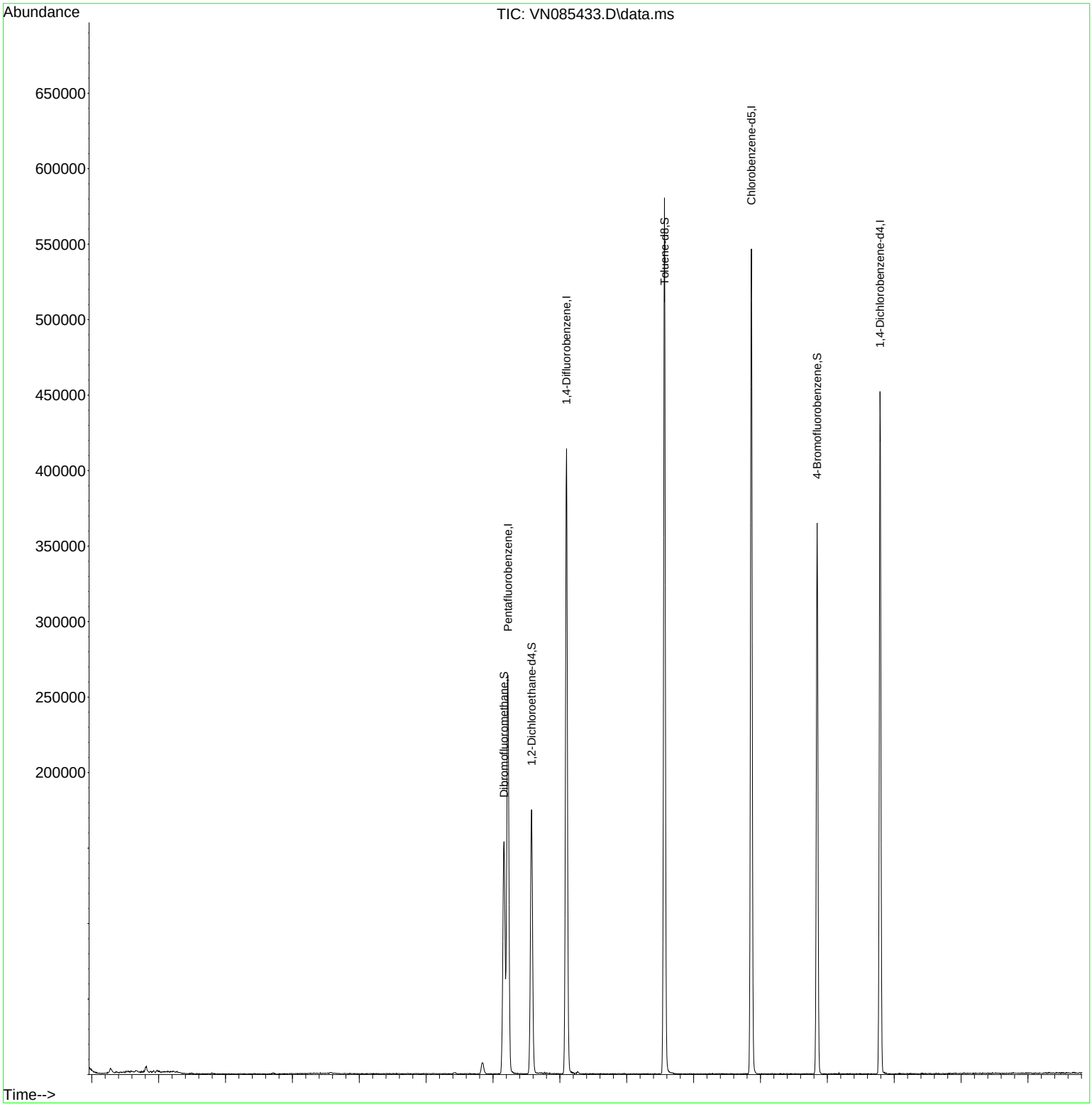
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	177659	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	334626	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	294528	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	115338	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	146550	57.835	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 115.680%			
35) Dibromofluoromethane	8.165	113	108928	52.179	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.360%			
50) Toluene-d8	10.565	98	372474	48.623	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 97.240%			
62) 4-Bromofluorobenzene	12.847	95	121568	47.784	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 95.560%			
Target Compounds						Qvalue
29) Tetrahydrofuran	7.841	42	5374	6.454	ug/l	96

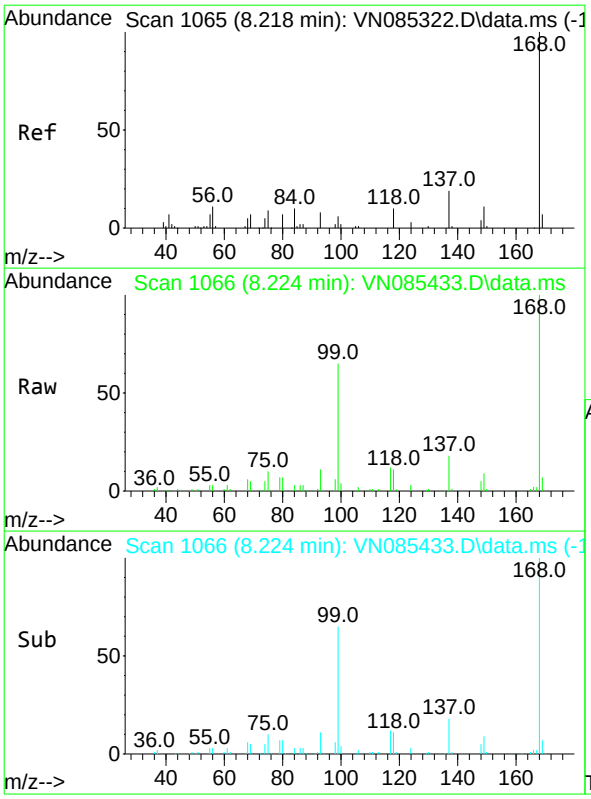
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011325\
Data File : VN085433.D
Acq On : 13 Jan 2025 17:54
Operator : JC\MD
Sample : Q1062-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190A-EB-20250107

Quant Time: Jan 13 18:11:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
Quant Title : SW846 8260
QLast Update : Sat Dec 28 01:36:16 2024
Response via : Initial Calibration



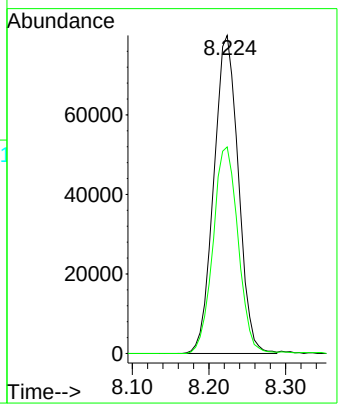


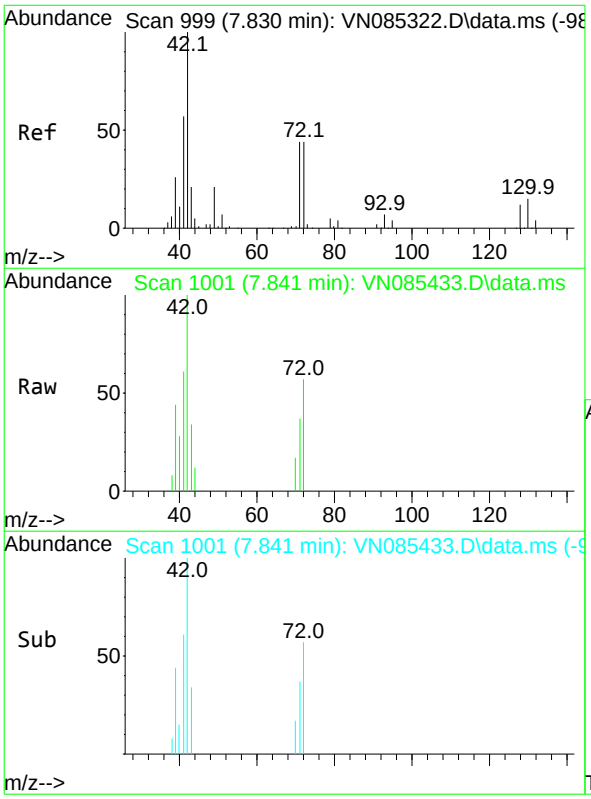
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085433.D
Acq: 13 Jan 2025 17:54

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190A-EB-20250107

Tgt Ion:168 Resp: 177659

Ion	Ratio	Lower	Upper
168	100		
99	64.9	51.0	76.4

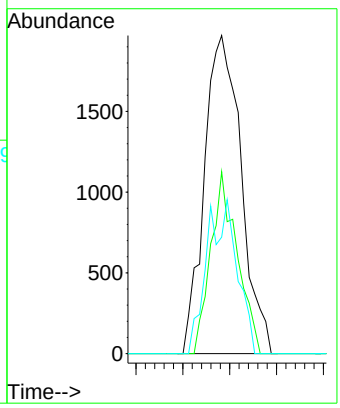


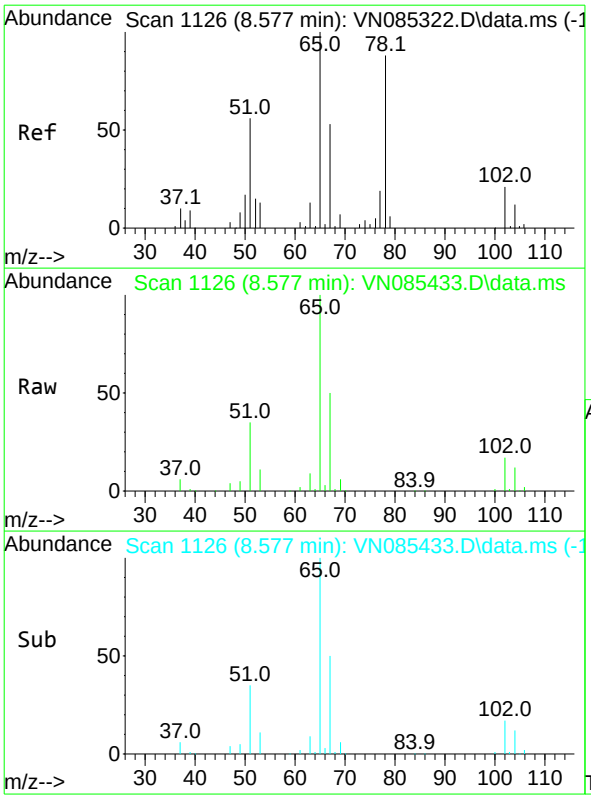


#29
Tetrahydrofuran
Concen: 6.454 ug/l
RT: 7.841 min Scan# 1001
Delta R.T. 0.012 min
Lab File: VN085433.D
Acq: 13 Jan 2025 17:54

Tgt Ion: 42 Resp: 5374

Ion	Ratio	Lower	Upper
42	100		
72	41.1	35.1	52.7
71	39.5	33.4	50.0



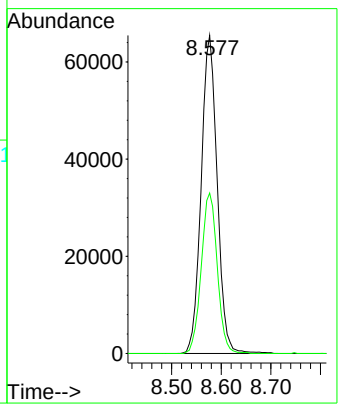


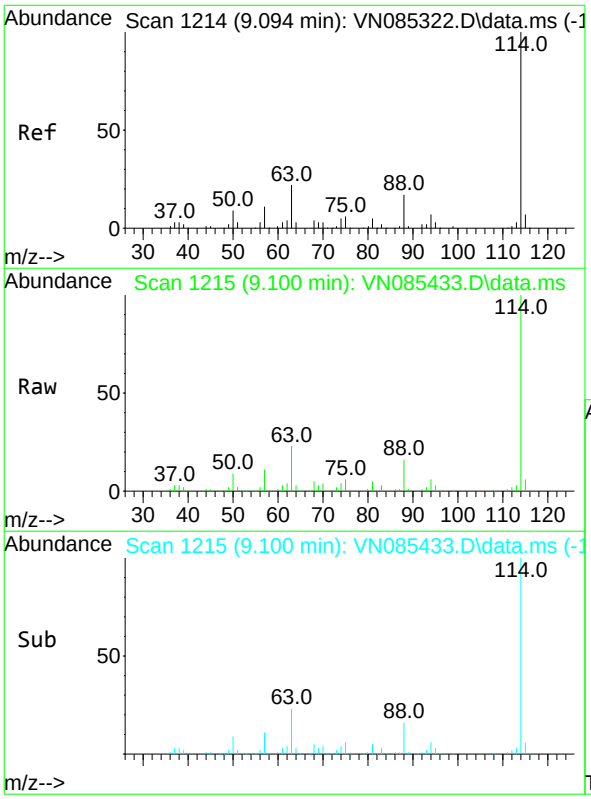
#33
1,2-Dichloroethane-d4
Concen: 57.835 ug/l
RT: 8.577 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085433.D
Acq: 13 Jan 2025 17:54

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190A-EB-20250107

Tgt Ion: 65 Resp: 146550

Ion	Ratio	Lower	Upper
65	100		
67	50.5	0.0	104.0

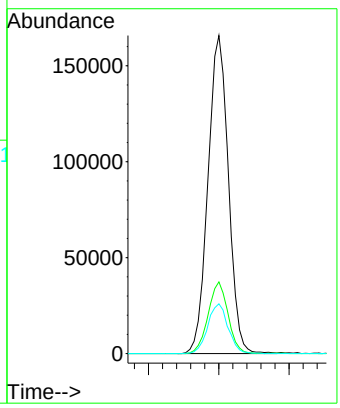


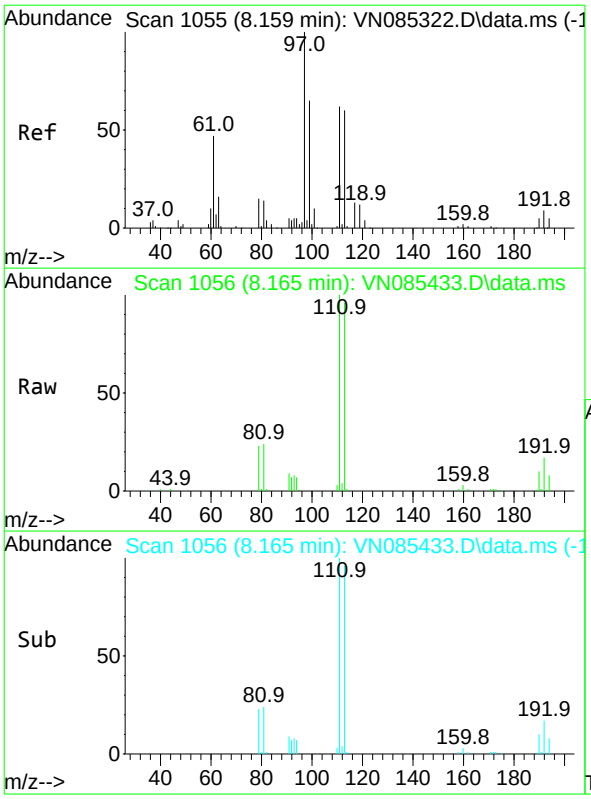


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.006 min
Lab File: VN085433.D
Acq: 13 Jan 2025 17:54

Tgt Ion:114 Resp: 334626

Ion	Ratio	Lower	Upper
114	100		
63	22.6	0.0	43.4
88	15.7	0.0	33.6



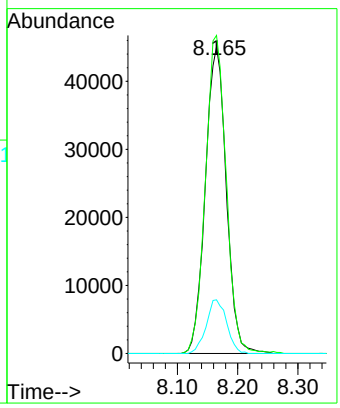


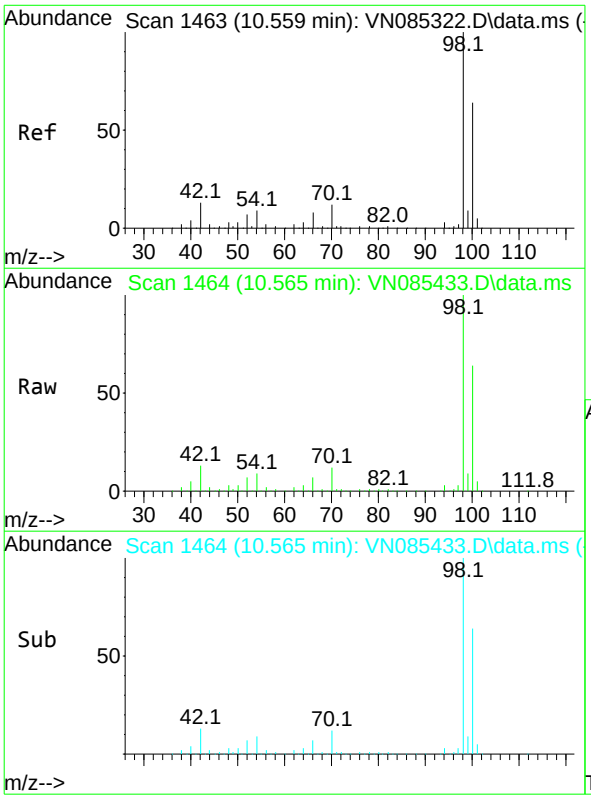
#35
Dibromofluoromethane
Concen: 52.179 ug/l
RT: 8.165 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085433.D
Acq: 13 Jan 2025 17:54

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190A-EB-20250107

Tgt Ion:113 Resp: 108928

Ion	Ratio	Lower	Upper
113	100		
111	102.6	80.5	120.7
192	17.0	12.9	19.3

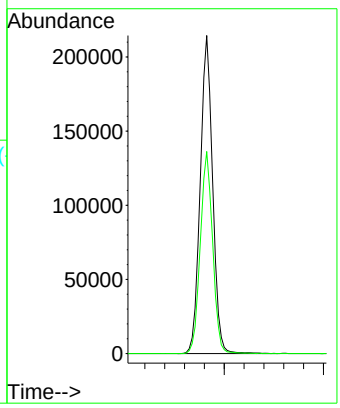


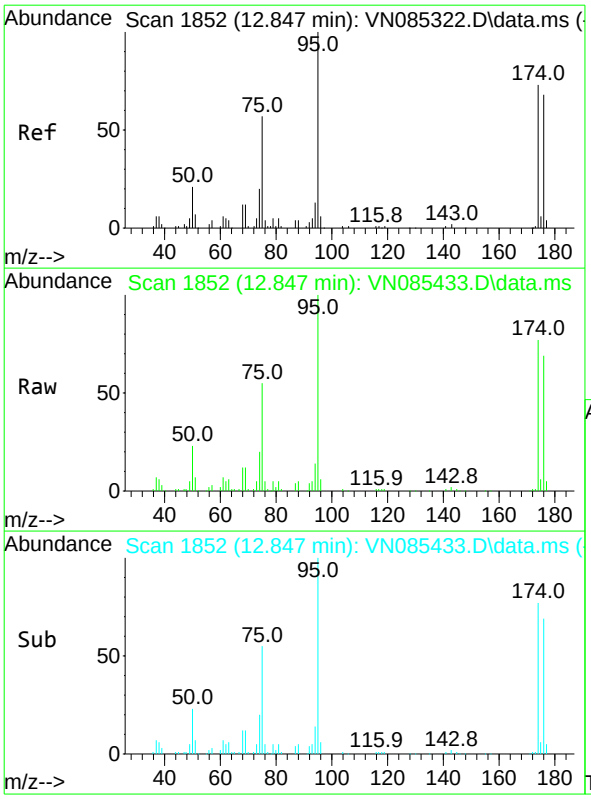


#50
Toluene-d8
Concen: 48.623 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VN085433.D
Acq: 13 Jan 2025 17:54

Tgt Ion: 98 Resp: 372474

Ion	Ratio	Lower	Upper
98	100		
100	63.3	51.5	77.3



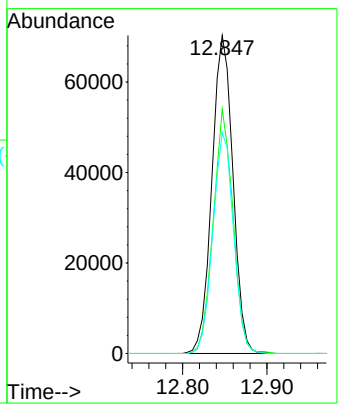


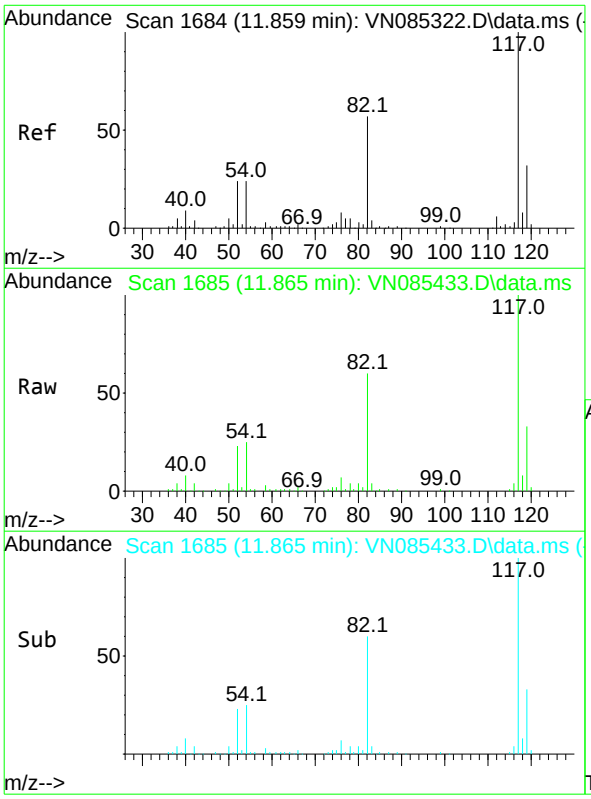
#62
4-Bromofluorobenzene
Concen: 47.784 ug/l
RT: 12.847 min Scan# 18
Delta R.T. 0.000 min
Lab File: VN085433.D
Acq: 13 Jan 2025 17:54

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190A-EB-20250107

Tgt Ion: 95 Resp: 121568

Ion	Ratio	Lower	Upper
95	100		
174	72.6	0.0	143.2
176	68.6	0.0	135.8

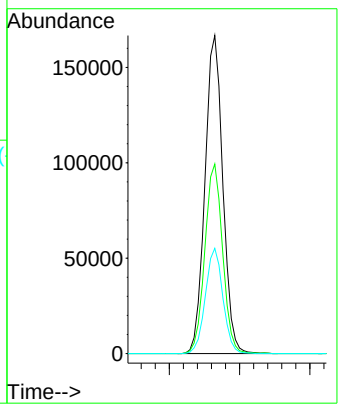


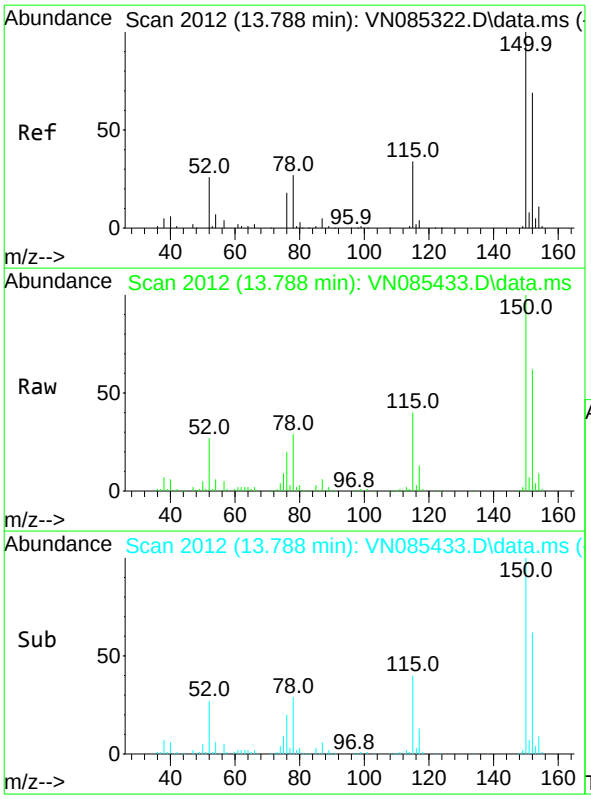


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.006 min
Lab File: VN085433.D
Acq: 13 Jan 2025 17:54

Tgt Ion:117 Resp: 294528

Ion	Ratio	Lower	Upper
117	100		
82	59.6	45.7	68.5
119	33.1	25.8	38.8



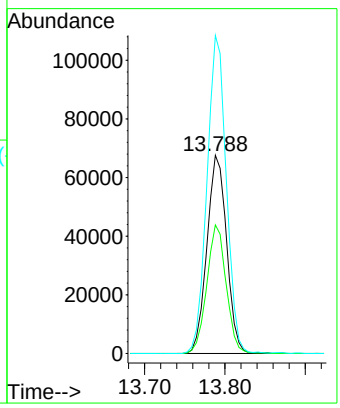


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 20
Delta R.T. 0.000 min
Lab File: VN085433.D
Acq: 13 Jan 2025 17:54

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190A-EB-20250107

Tgt Ion:152 Resp: 115338

Ion	Ratio	Lower	Upper
152	100		
115	63.7	30.4	91.3
150	157.0	0.0	345.0



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011325\
Data File : VN085430.D
Acq On : 13 Jan 2025 16:42
Operator : JC\MD
Sample : Q1062-04 10X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190A-GW-898-900

Quant Time: Jan 13 17:22:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
Quant Title : SW846 8260
QLast Update : Sat Dec 28 01:36:16 2024
Response via : Initial Calibration

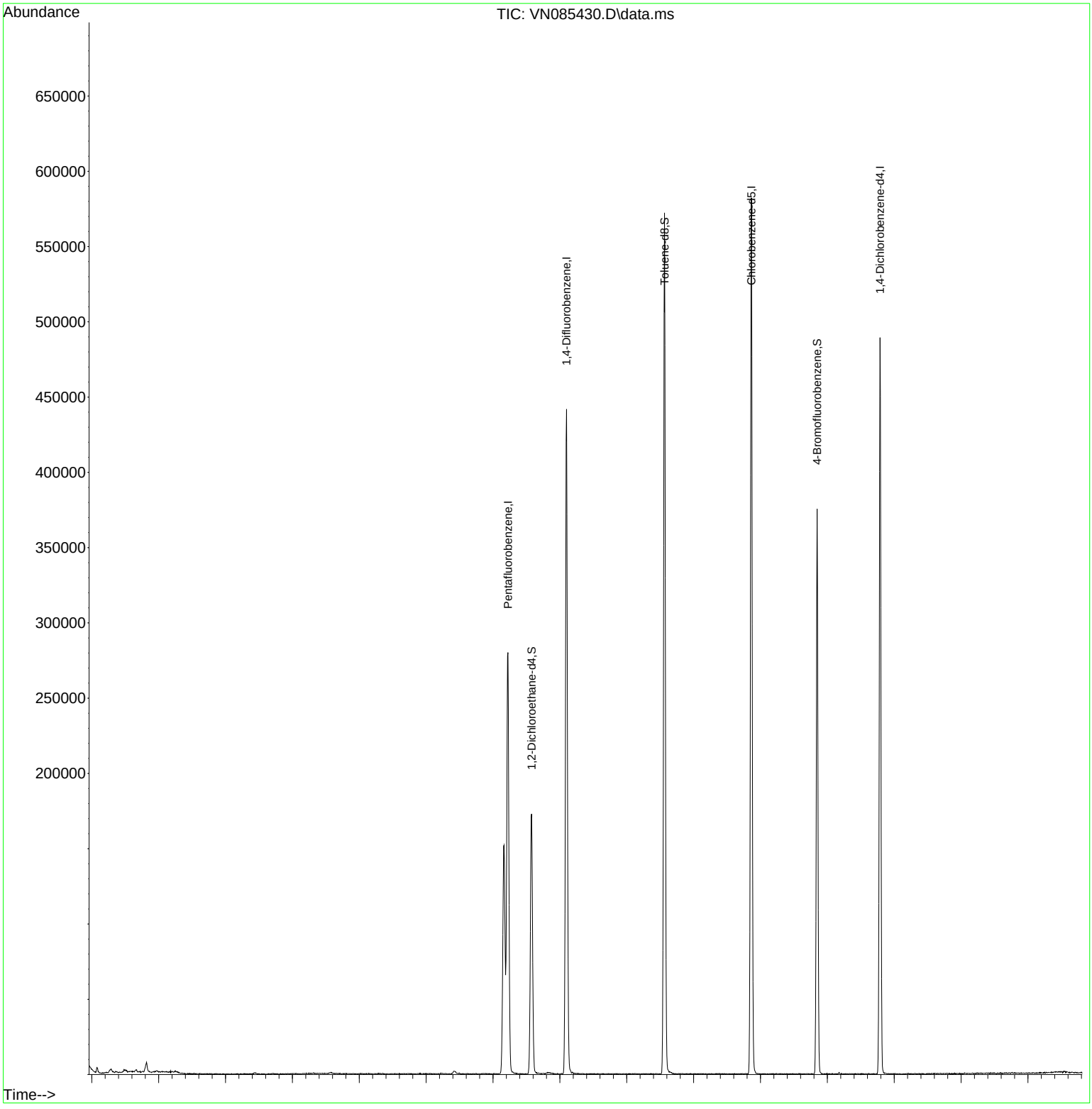
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	188453	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	351449	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	313757	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	124648	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	144609	53.800	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 107.600%			
35) Dibromofluoromethane	8.165	113	109324	49.862	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 99.720%			
50) Toluene-d8	10.565	98	369034	45.868	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 91.740%			
62) 4-Bromofluorobenzene	12.847	95	121616	45.515	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 91.020%			
Target Compounds						Qvalue

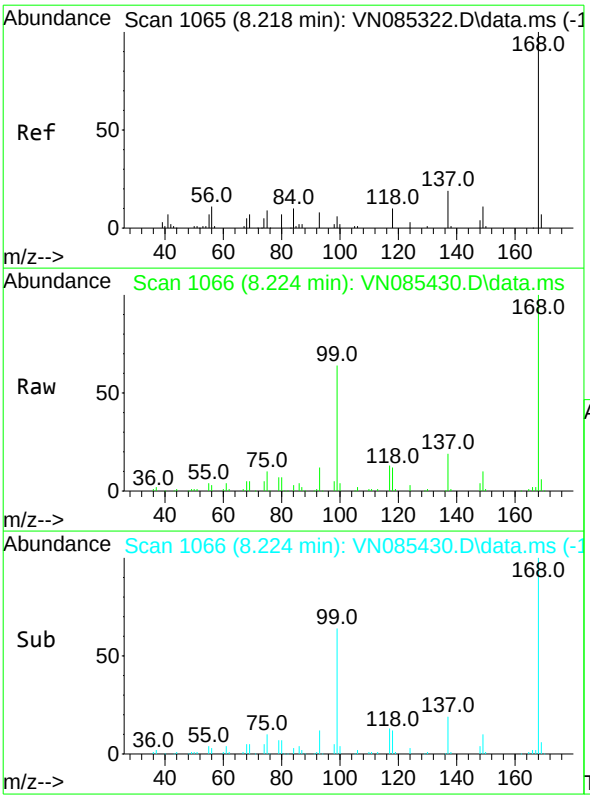
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011325\
Data File : VN085430.D
Acq On : 13 Jan 2025 16:42
Operator : JC\MD
Sample : Q1062-04 10X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190A-GW-898-900

Quant Time: Jan 13 17:22:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
Quant Title : SW846 8260
QLast Update : Sat Dec 28 01:36:16 2024
Response via : Initial Calibration



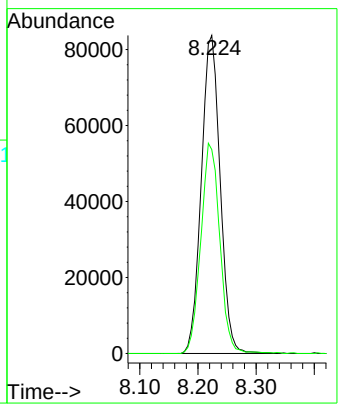


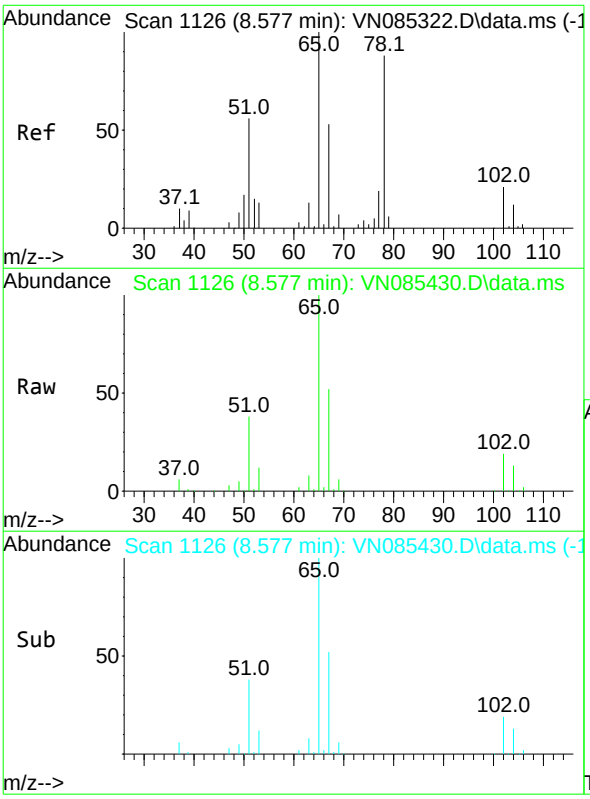
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085430.D
Acq: 13 Jan 2025 16:42

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190A-GW-898-900

Tgt Ion:168 Resp: 188453

Ion	Ratio	Lower	Upper
168	100		
99	64.1	51.0	76.4

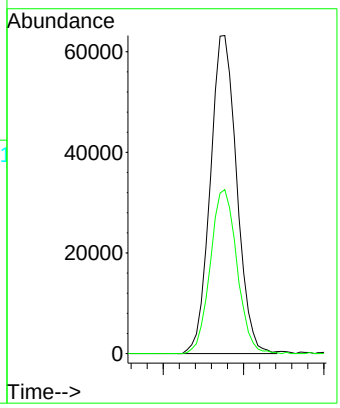


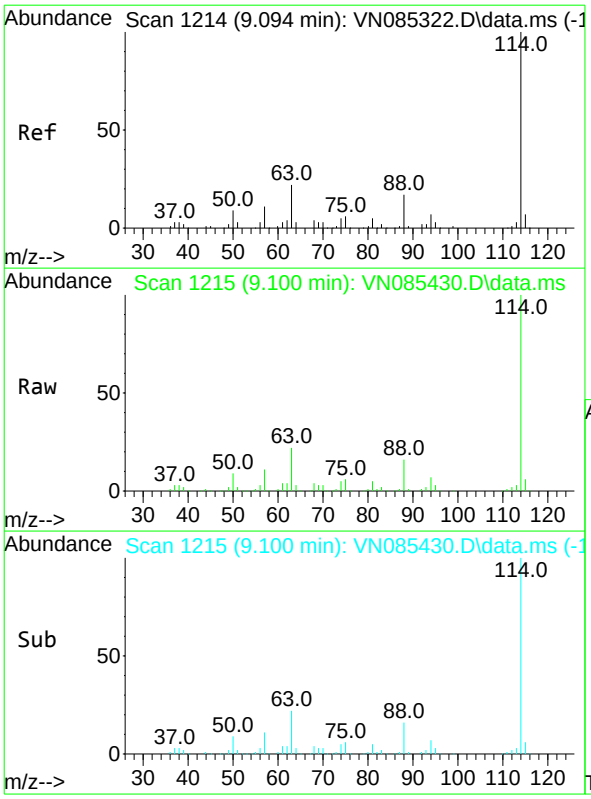


#33
1,2-Dichloroethane-d4
Concen: 53.800 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VN085430.D
Acq: 13 Jan 2025 16:42

Tgt Ion: 65 Resp: 144609

Ion	Ratio	Lower	Upper
65	100		
67	51.9	0.0	104.0



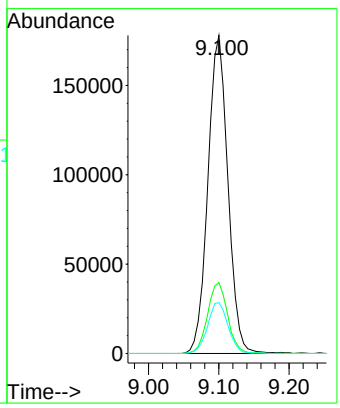


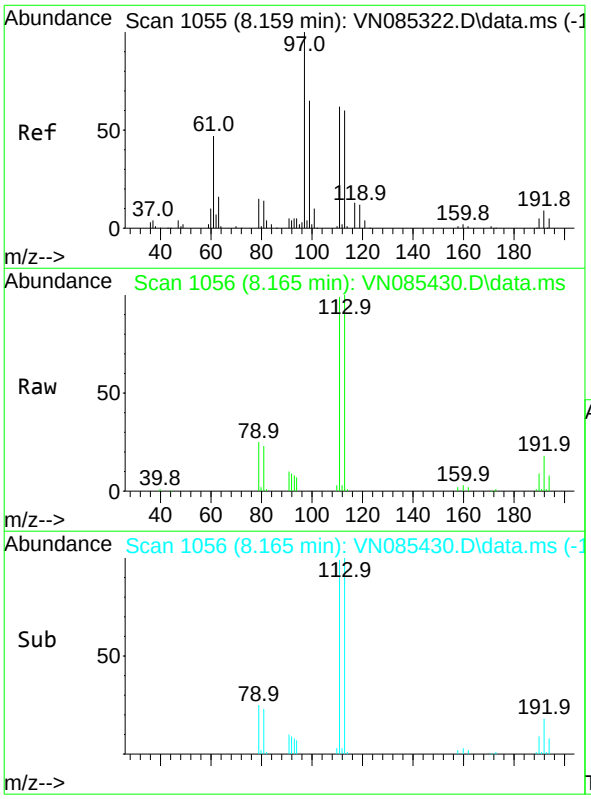
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 12
Delta R.T. 0.006 min
Lab File: VN085430.D
Acq: 13 Jan 2025 16:42

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190A-GW-898-900

Tgt Ion:114 Resp: 351449

Ion	Ratio	Lower	Upper
114	100		
63	22.3	0.0	43.4
88	16.0	0.0	33.6

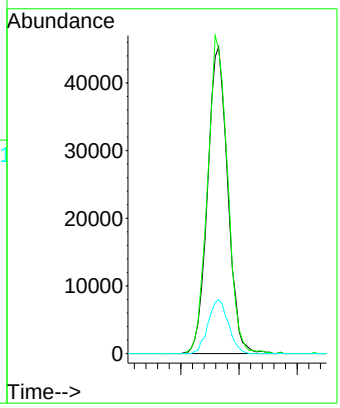


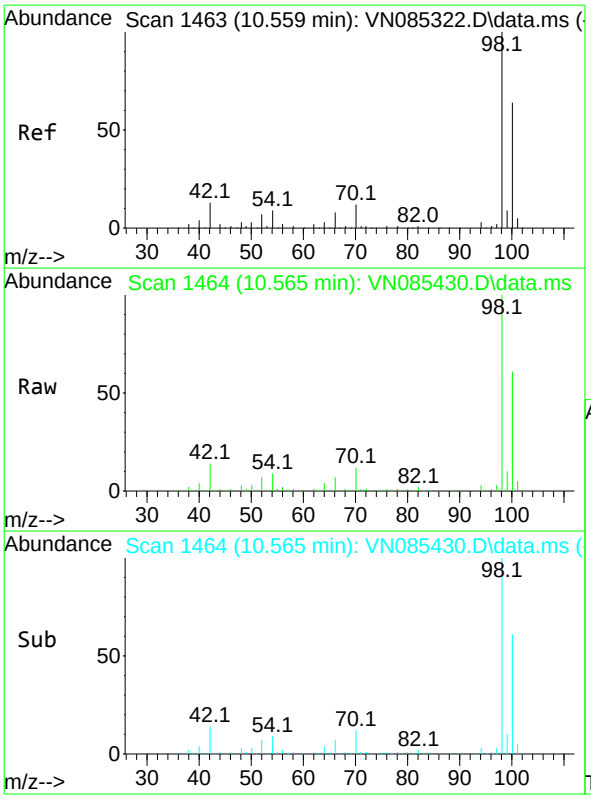


#35
Dibromofluoromethane
Concen: 49.862 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VN085430.D
Acq: 13 Jan 2025 16:42

Tgt Ion:113 Resp: 109324

Ion	Ratio	Lower	Upper
113	100		
111	102.6	80.5	120.7
192	17.6	12.9	19.3



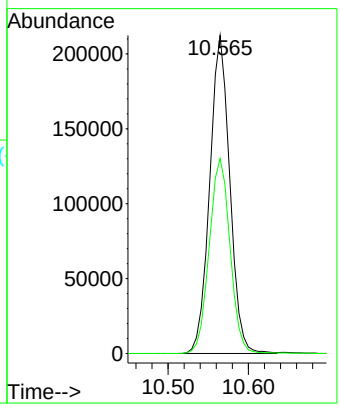


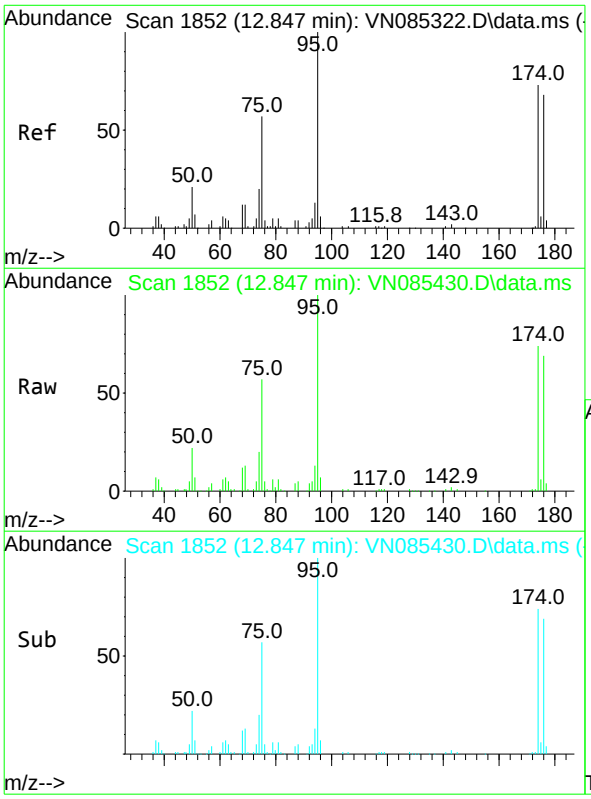
#50
Toluene-d8
Concen: 45.868 ug/l
RT: 10.565 min Scan# 14
Delta R.T. 0.006 min
Lab File: VN085430.D
Acq: 13 Jan 2025 16:42

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190A-GW-898-900

Tgt Ion: 98 Resp: 369034

Ion	Ratio	Lower	Upper
98	100		
100	63.5	51.5	77.3

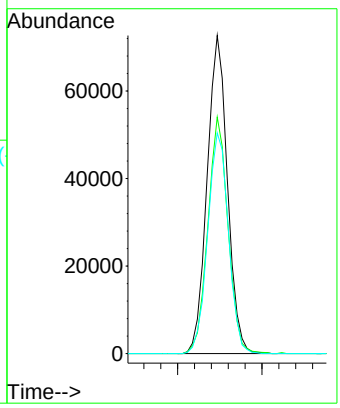


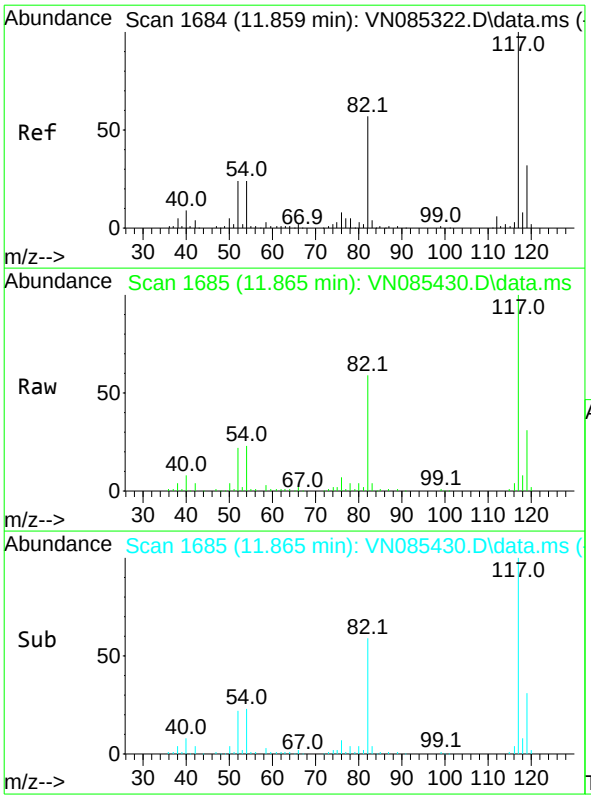


#62
4-Bromofluorobenzene
Concen: 45.515 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085430.D
Acq: 13 Jan 2025 16:42

Tgt Ion: 95 Resp: 121616

Ion	Ratio	Lower	Upper
95	100		
174	73.8	0.0	143.2
176	70.7	0.0	135.8



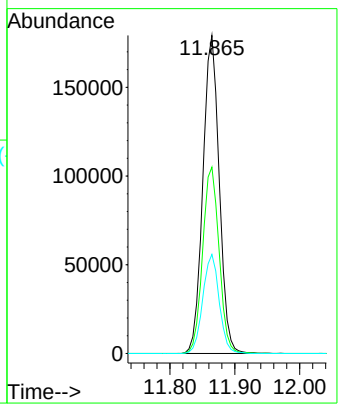


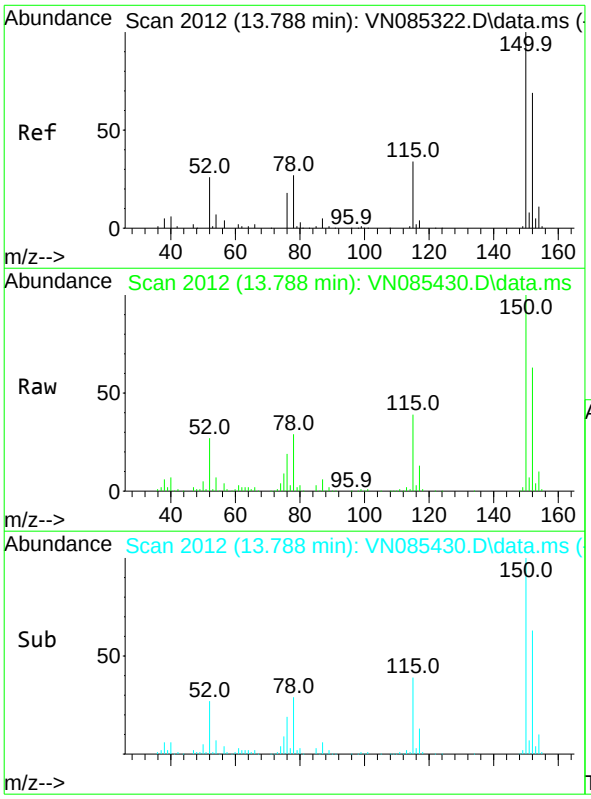
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 16
Delta R.T. 0.006 min
Lab File: VN085430.D
Acq: 13 Jan 2025 16:42

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190A-GW-898-900

Tgt Ion:117 Resp: 313757

Ion	Ratio	Lower	Upper
117	100		
82	58.6	45.7	68.5
119	31.2	25.8	38.8

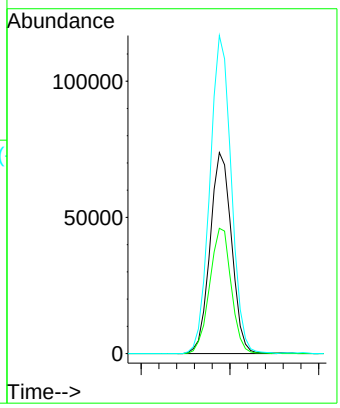




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN085430.D
Acq: 13 Jan 2025 16:42

Tgt Ion:152 Resp: 124648

Ion	Ratio	Lower	Upper
152	100		
115	62.3	30.4	91.3
150	157.0	0.0	345.0



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: Q1062 / Q1063

COC Number:

CLIENT INFORMATION	PROJECT INFORMATION	BILLING INFORMATION
COMPANY: Tetra Tech	PROJECT NAME: NWIRP Bethpage	BILL TO: SEE CONTRACT PO#
ADDRESS: 4433 Corporation Lane Suite 300	PROJECT #: 112G08005-WE13 LOCATION: VPB-190	ADDRESS:
CITY: Virginia Beach STATE: VA ZIP: 23462	PROJECT MANAGER: Ernie Wu	CITY: STATE: ZIP:
ATTENTION: Ernie Wu	E-MAIL: ernie.wu@tetratech.com	ATTENTION: PHONE:
PHONE: 757-466-4901 FAX: 757-461-4148	PHONE: 757-466-4901 FAX: 757-461-4148	

DATA TURNAROUND INFORMATION

FAX: 2 & 10 DAYS*
HARD COPY: 2 & 10 DAYS*
EDD 2 & 10 DAYS*
* TO BE APPROVED BY CHEMTECH
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ RESEULTS ONLY
- ☐ RESULTS + QC
- ☐ New Jersey REDUCED
- ☐ New Jersey CLP
- ☐ EDD Format
- ☐ USEPA CLP
- ☐ New York State ASP "B"
- ☐ New York State ASP "A"
- ☐ Other

ANALYSIS

	1	2	3	4	5	6	7	8	9
	VOC(SW846-8260B)	1,4 Dioxane (8270 SIM)	1,4 Dioxane (522 PREC)						
PRESERVATIVES	A		F						

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# of Bottles	1	2	3	4	5	6	7	8	9	COMMENTS
1.	BP-VPB-190A-TB-20250107	QA		X	1/7/25	8:00	2	2									Trip Blank
2.	VPB190A-HYD-20250107	QA		X	1/7/25	9:30	5	2	1	2							Hydrant sample
3.	BP-VPB-190A-EB-20250107	QA		X	1/7/25	10:30	2	2									Equipment Blank
4.	BP-VPB-190A-GW-898-900	AQ		X	1/7/25	14:50	2	2									
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

COMMENTS <-- Specify Preservatives
A-HCl B-HNO3
C-H2SO4 D-NaOH
E-ICE F-Other

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE PROSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER	DATE/TIME	RECEIVED BY
1.	1/9/25 15:20	1. 1530 1-9-25
RELINQUISHED BY	DATE/TIME	RECEIVED BY
2.		2.
RELINQUISHED BY	DATE/TIME 1615 1-9-25	RECEIVED FOR LAB BY
3.		3.

Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant ☐ Cooler Temp 2.5 °C
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

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1062 TETR06
Client Name : Tetra Tech NUS, Inc.
Client Contact : Ernie Wu
Invoice Name : Tetra Tech NUS, Inc.
Invoice Contact : Ernie Wu

Order Date : 1/10/2025 11:26:00 AM
Project Name : NWIRP Bethpage 112G080
Receive DateTime : 1/9/2025 4:15:00 PM
Purchase Order :

Project Mgr : Kiran
Report Type : Level 4
EDD Type : ADAPT
Hard Copy Date :
Date Signoff : 1/10/2025 12:45:41 PM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q1062-01	BP-VPB-190A-TB-20250107	Water	01/07/2025	08:00					
					VOCMS Group1		8260-Low		2 Bus. Days
Q1062-02	VPB190A-HYD-20250107	Water	01/07/2025	09:30					
					VOCMS Group1		8260-Low		2 Bus. Days
Q1062-03	BP-VPB-190A-EB-20250107	Water	01/07/2025	10:30					
					VOCMS Group1		8260-Low		2 Bus. Days
Q1062-04	BP-VPB-190A-GW-898-900	Water	01/07/2025	14:50					
					VOCMS Group1		8260-Low		2 Bus. Days

Relinguished By :
Date / Time : 1-10-25 1305

Received By :
Date / Time : 1-10-25 13:05

Storage Area : **VOA Refridgerator Room**

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085438.D
Acq On : 14 Jan 2025 14:56
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Quant Time: Jan 15 01:41:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.218	168	202613	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	329363	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	298938	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	146196	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	313645	95.899	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 191.800%#			
35) Dibromofluoromethane	8.159	113	236159	103.353	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 206.700%#			
50) Toluene-d8	10.565	98	881956	108.636	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 217.280%#			
62) 4-Bromofluorobenzene	12.847	95	313161	112.765	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 225.520%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	269023	98.065	ug/l	99
3) Chloromethane	2.359	50	275415	92.724	ug/l	98
4) Vinyl Chloride	2.512	62	282361	94.576	ug/l	99
5) Bromomethane	2.942	94	158888	88.105	ug/l	98
6) Chloroethane	3.112	64	176111	93.043	ug/l	99
7) Trichlorofluoromethane	3.494	101	423967	97.870	ug/l	100
8) Diethyl Ether	3.953	74	146889	98.154	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.371	101	239104	97.997	ug/l	99
10) Methyl Iodide	4.589	142	292983	104.856	ug/l	95
11) Tert butyl alcohol	5.512	59	173044	462.061	ug/l	99
12) 1,1-Dichloroethene	4.336	96	222117	102.146	ug/l	99
13) Acrolein	4.171	56	275350	538.600	ug/l	99
14) Allyl chloride	5.018	41	349717	99.111	ug/l	98
15) Acrylonitrile	5.712	53	585370	492.095	ug/l	99
16) Acetone	4.418	43	483221	457.268	ug/l	96
17) Carbon Disulfide	4.712	76	630294	94.140	ug/l	100
18) Methyl Acetate	5.012	43	304226	94.674	ug/l	99
19) Methyl tert-butyl Ether	5.788	73	743008	105.230	ug/l	100
20) Methylene Chloride	5.271	84	254912	97.440	ug/l	98
21) trans-1,2-Dichloroethene	5.783	96	231503	99.618	ug/l	97
22) Diisopropyl ether	6.665	45	820871	104.812	ug/l	99
23) Vinyl Acetate	6.594	43	3029568	550.850	ug/l	99
24) 1,1-Dichloroethane	6.565	63	471831	98.803	ug/l	99
25) 2-Butanone	7.477	43	764979	491.912	ug/l	98
26) 2,2-Dichloropropane	7.482	77	388140	100.530	ug/l	100
27) cis-1,2-Dichloroethene	7.482	96	280197	102.367	ug/l	99
28) Bromochloromethane	7.806	49	214796	96.679	ug/l	100
29) Tetrahydrofuran	7.830	42	503459	510.635	ug/l	99
30) Chloroform	7.959	83	484941	98.253	ug/l	100
31) Cyclohexane	8.253	56	398641	96.041	ug/l	96
32) 1,1,1-Trichloroethane	8.165	97	426782	98.578	ug/l	98
36) 1,1-Dichloropropene	8.365	75	342961	106.945	ug/l	100
37) Ethyl Acetate	7.553	43	326802	100.961	ug/l	97
38) Carbon Tetrachloride	8.359	117	378390	103.065	ug/l	97
39) Methylcyclohexane	9.594	83	371734	123.354	ug/l	99
40) Benzene	8.600	78	1021393	106.001	ug/l	100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085438.D
Acq On : 14 Jan 2025 14:56
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Quant Time: Jan 15 01:41:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.777	41	184326	109.454	ug/l		96
42) 1,2-Dichloroethane	8.665	62	374938	103.314	ug/l		100
43) Isopropyl Acetate	8.682	43	549969	106.035	ug/l		100
44) Trichloroethene	9.347	130	238296	106.242	ug/l		96
45) 1,2-Dichloropropane	9.618	63	256964	104.405	ug/l		97
46) Dibromomethane	9.706	93	180990	101.913	ug/l		99
47) Bromodichloromethane	9.882	83	388499	107.377	ug/l		98
48) Methyl methacrylate	9.676	41	267689	114.685	ug/l		99
49) 1,4-Dioxane	9.688	88	83879	2133.992	ug/l		97
51) 4-Methyl-2-Pentanone	10.441	43	1643800	546.159	ug/l		100
52) Toluene	10.623	92	634743	113.689	ug/l		99
53) t-1,3-Dichloropropene	10.829	75	391238	114.424	ug/l		97
54) cis-1,3-Dichloropropene	10.306	75	410403	112.369	ug/l		99
55) 1,1,2-Trichloroethane	11.012	97	229522	103.879	ug/l		98
56) Ethyl methacrylate	10.870	69	383663	101.029	ug/l		99
57) 1,3-Dichloropropane	11.159	76	412886	107.469	ug/l		100
58) 2-Chloroethyl Vinyl ether	10.153	63	848636	605.243	ug/l		100
59) 2-Hexanone	11.194	43	1178831	556.643	ug/l		99
60) Dibromochloromethane	11.353	129	283361	106.227	ug/l		99
61) 1,2-Dibromoethane	11.465	107	230104	104.623	ug/l		98
64) Tetrachloroethene	11.100	164	209870	102.980	ug/l		98
65) Chlorobenzene	11.888	112	677679	103.482	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.959	131	241593	100.517	ug/l		99
67) Ethyl Benzene	11.959	91	1239080	116.169	ug/l		99
68) m/p-Xylenes	12.070	106	927244	235.219	ug/l		99
69) o-Xylene	12.394	106	441279	117.135	ug/l		100
70) Styrene	12.406	104	760136	121.919	ug/l		99
71) Bromoform	12.576	173	186124	108.227	ug/l	#	99
73) Isopropylbenzene	12.694	105	1146752	116.221	ug/l		100
74) N-amyl acetate	12.488	43	489217	110.308	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.935	83	327767	94.039	ug/l		100
76) 1,2,3-Trichloropropane	12.988	75	446237	150.413	ug/l		47
77) Bromobenzene	12.976	156	268616	104.200	ug/l		97
78) n-propylbenzene	13.029	91	1385353	118.600	ug/l		100
79) 2-Chlorotoluene	13.123	91	822258	108.767	ug/l		99
80) 1,3,5-Trimethylbenzene	13.170	105	953066	116.938	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.735	75	122508	111.544	ug/l		87
82) 4-Chlorotoluene	13.217	91	832317	110.574	ug/l		99
83) tert-Butylbenzene	13.435	119	797069	116.457	ug/l		98
84) 1,2,4-Trimethylbenzene	13.476	105	971729	119.625	ug/l		100
85) sec-Butylbenzene	13.611	105	1143885	120.587	ug/l		100
86) p-Isopropyltoluene	13.723	119	960747	100.111	ug/l		100
87) 1,3-Dichlorobenzene	13.729	146	502960	105.943	ug/l		99
88) 1,4-Dichlorobenzene	13.811	146	498709	101.341	ug/l		97
89) n-Butylbenzene	14.053	91	842368	123.781	ug/l		98
90) Hexachloroethane	14.329	117	188541	104.405	ug/l		100
91) 1,2-Dichlorobenzene	14.100	146	470919	99.445	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	63846	100.313	ug/l		98
93) 1,2,4-Trichlorobenzene	15.388	180	250787	113.946	ug/l		99
94) Hexachlorobutadiene	15.500	225	112899	96.619	ug/l		99
95) Naphthalene	15.635	128	756816	115.234	ug/l		99
96) 1,2,3-Trichlorobenzene	15.835	180	238860	107.256	ug/l		100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085438.D
Acq On : 14 Jan 2025 14:56
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Quant Time: Jan 15 01:41:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration

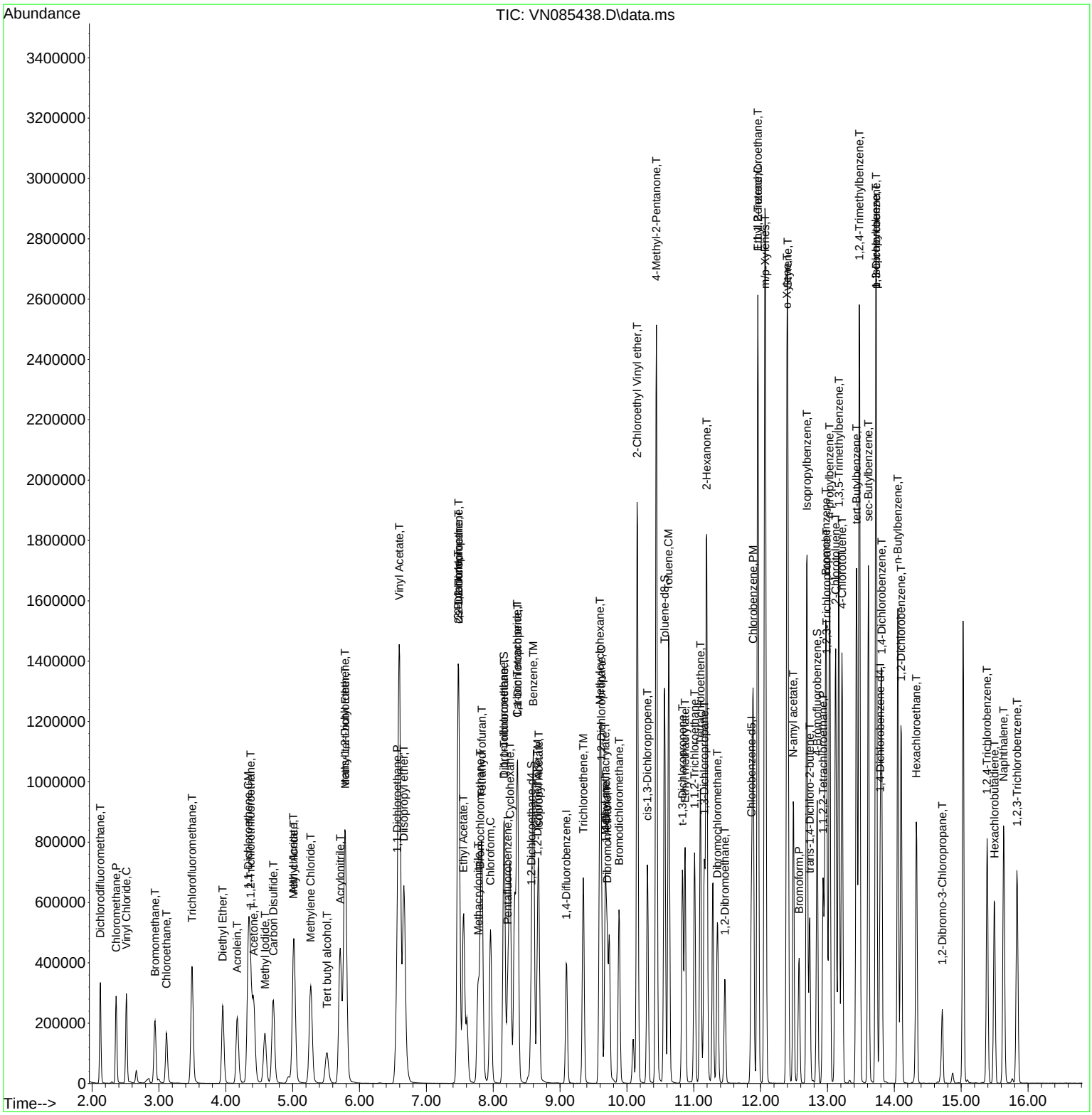
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

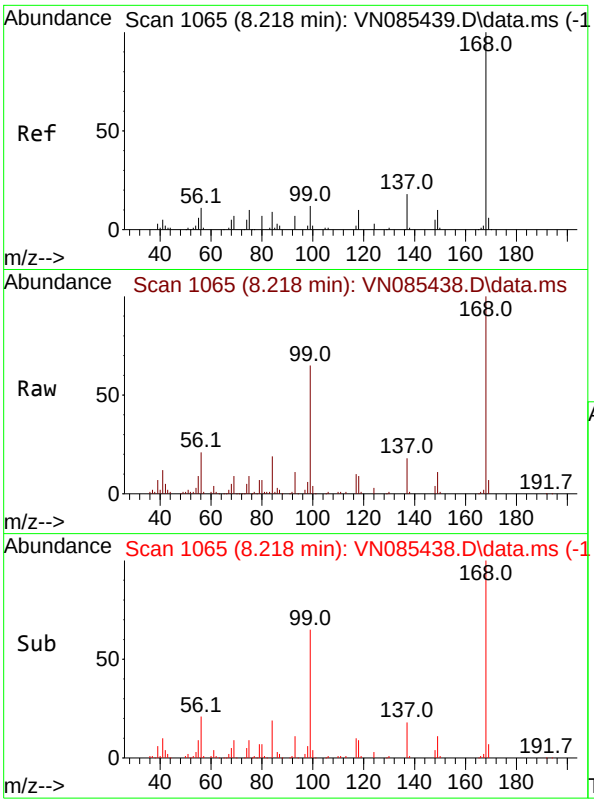
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085438.D
Acq On : 14 Jan 2025 14:56
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Quant Time: Jan 15 01:41:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration



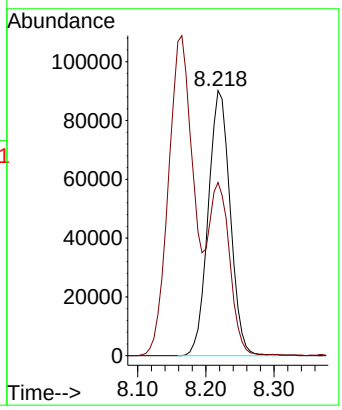


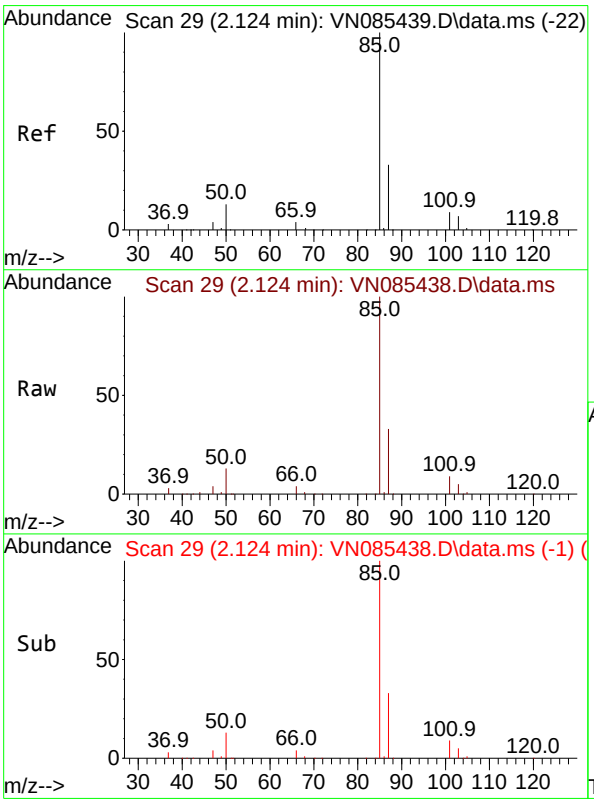
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:168 Resp: 202613

Ion	Ratio	Lower	Upper
168	100		
99	64.9	53.6	80.4

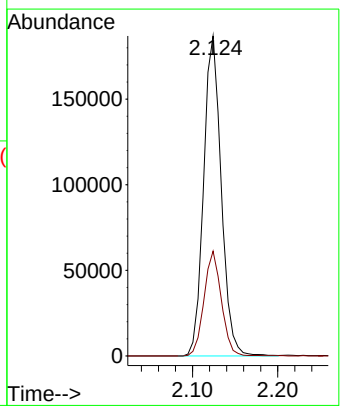


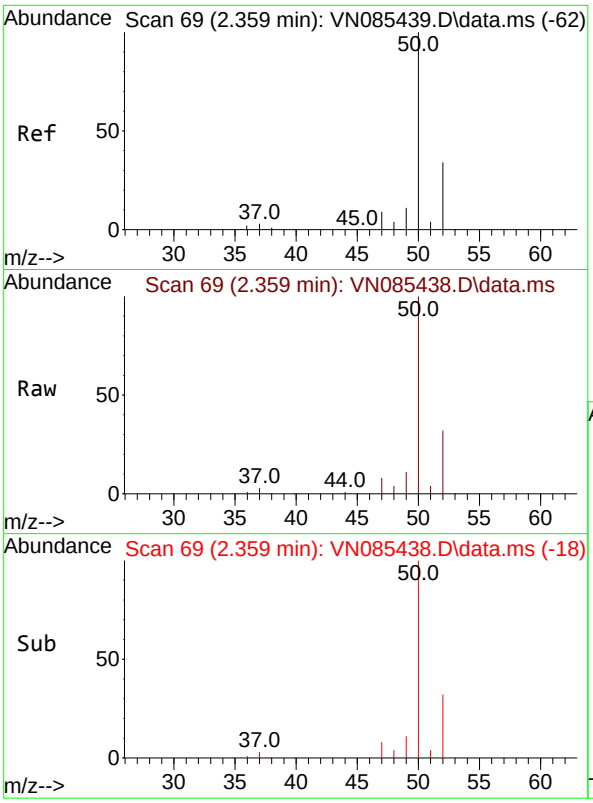


#2
Dichlorodifluoromethane
Concen: 98.065 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 85 Resp: 269023

Ion	Ratio	Lower	Upper
85	100		
87	32.7	16.7	50.1



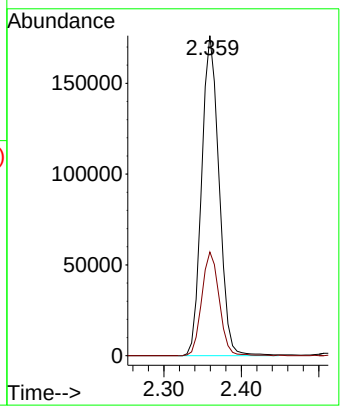


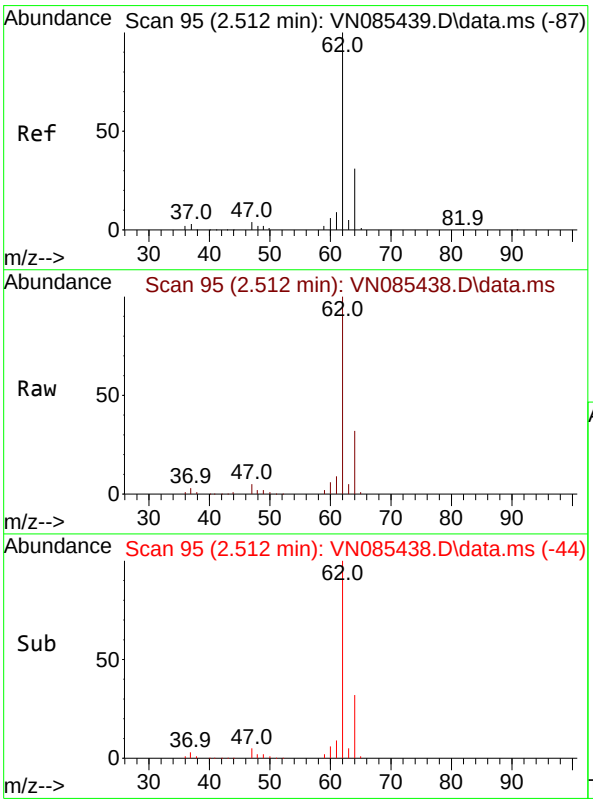
#3
Chloromethane
Concen: 92.724 ug/l
RT: 2.359 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 50 Resp: 275415

Ion	Ratio	Lower	Upper
50	100		
52	32.4	27.0	40.6

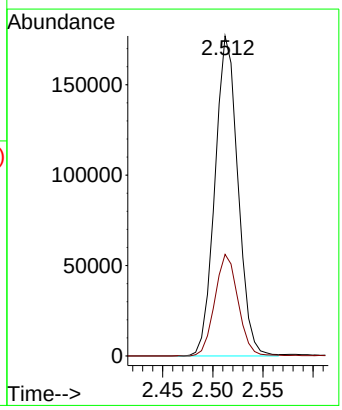


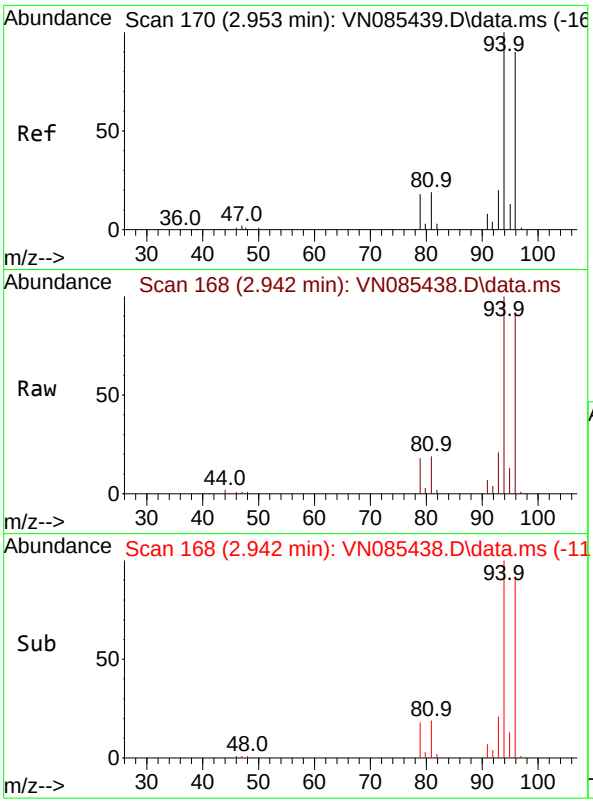


#4
Vinyl Chloride
Concen: 94.576 ug/l
RT: 2.512 min Scan# 95
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 62 Resp: 282361

Ion	Ratio	Lower	Upper
62	100		
64	31.6	24.8	37.2



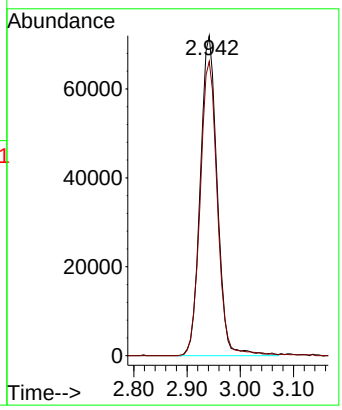


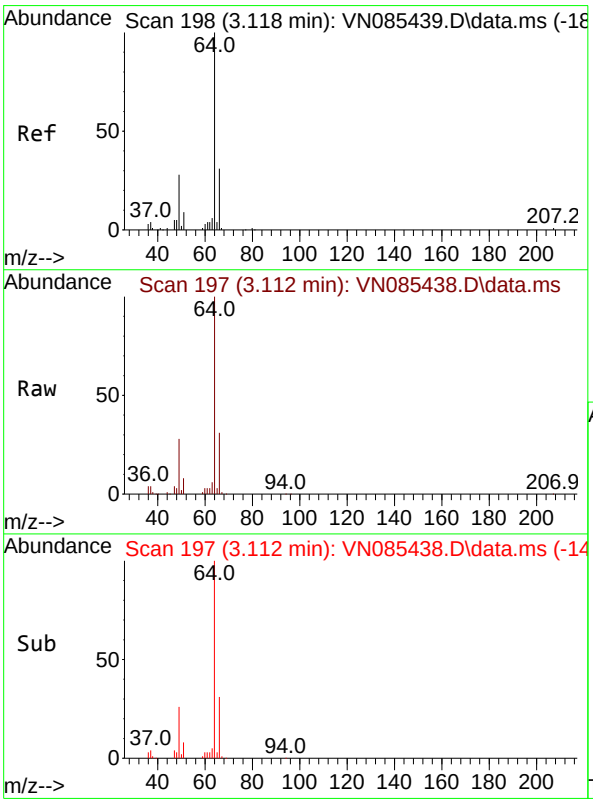
#5
Bromomethane
Concen: 88.105 ug/l
RT: 2.942 min Scan# 1
Delta R.T. -0.012 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 94 Resp: 158888

Ion	Ratio	Lower	Upper
94	100		
96	91.9	71.8	107.6

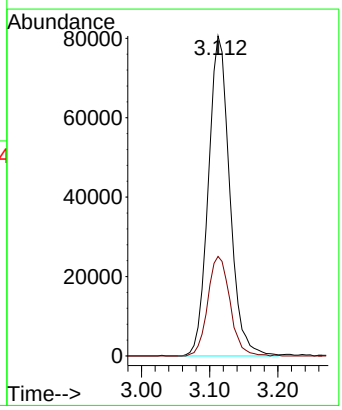


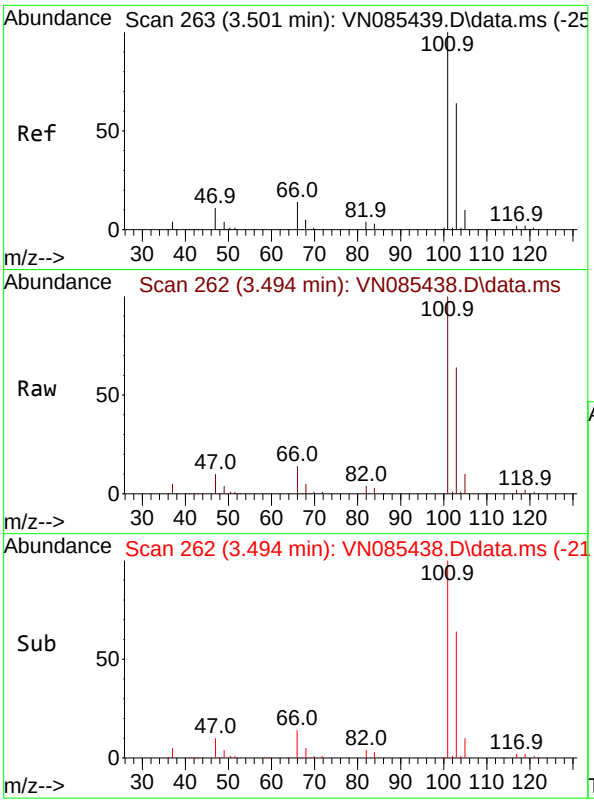


#6
Chloroethane
Concen: 93.043 ug/l
RT: 3.112 min Scan# 197
Delta R.T. -0.006 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 64 Resp: 176111

Ion	Ratio	Lower	Upper
64	100		
66	31.1	24.6	36.8



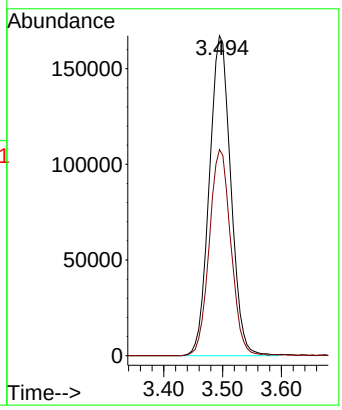


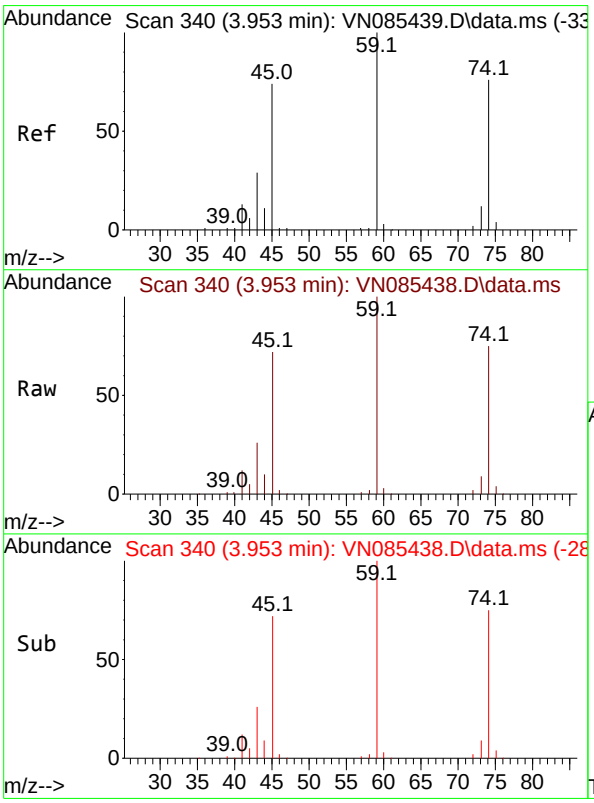
#7
Trichlorofluoromethane
Concen: 97.870 ug/l
RT: 3.494 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:101 Resp: 423967

Ion	Ratio	Lower	Upper
101	100		
103	64.4	51.4	77.2

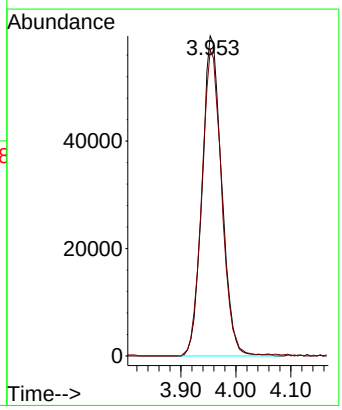


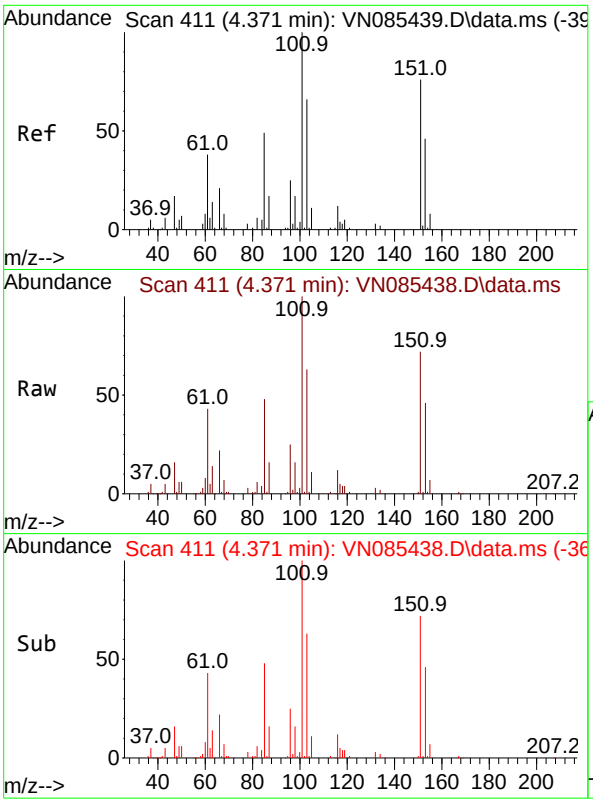


#8
Diethyl Ether
Concen: 98.154 ug/l
RT: 3.953 min Scan# 340
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 74 Resp: 146889

Ion	Ratio	Lower	Upper
74	100		
45	97.4	49.7	149.1



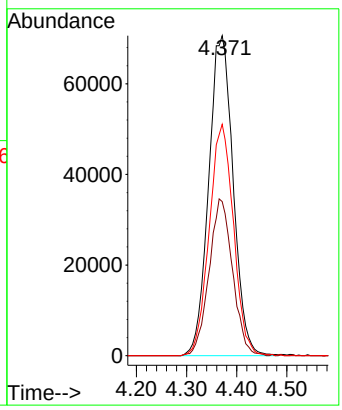


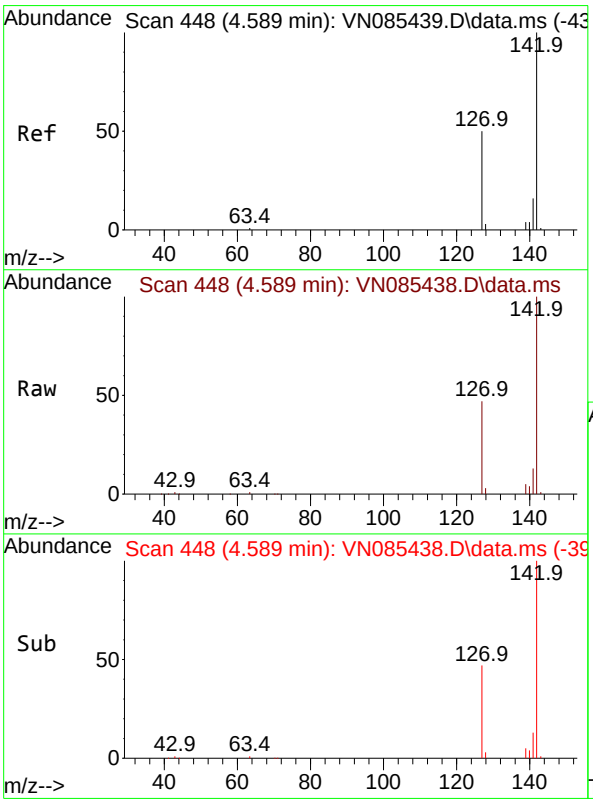
#9
1,1,2-Trichlorotrifluoroethane
Concen: 97.997 ug/l
RT: 4.371 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:101 Resp: 239104

Ion	Ratio	Lower	Upper
101	100		
85	47.1	37.8	56.8
151	71.8	58.8	88.2

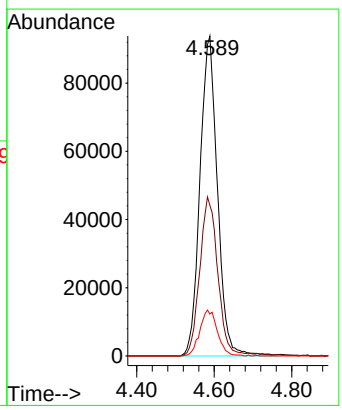


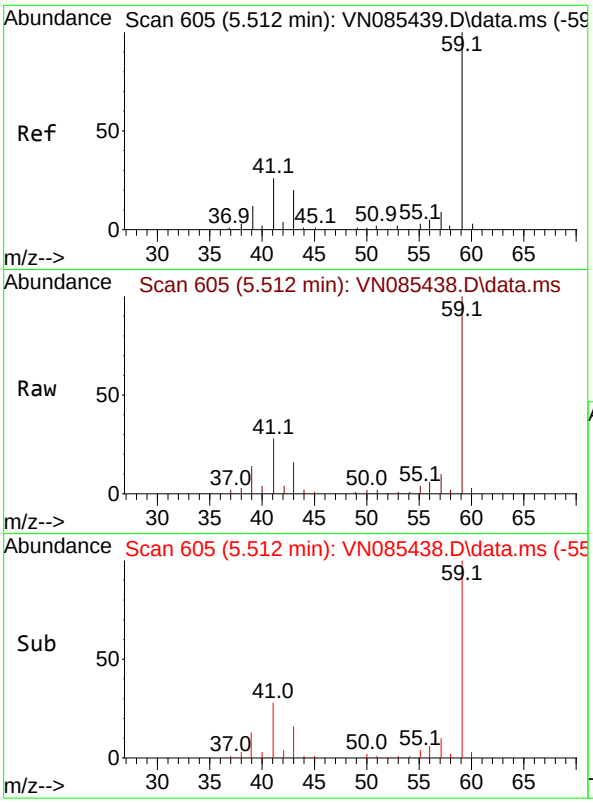


#10
Methyl Iodide
Concen: 104.856 ug/l
RT: 4.589 min Scan# 448
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion:142 Resp: 292983

Ion	Ratio	Lower	Upper
142	100		
127	47.1	40.3	60.5
141	13.1	12.8	19.2



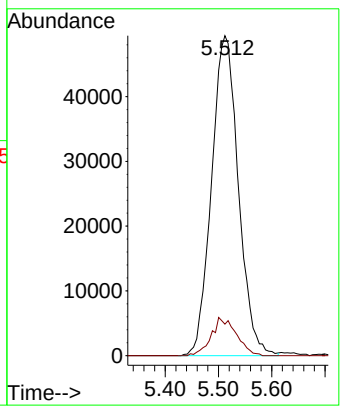


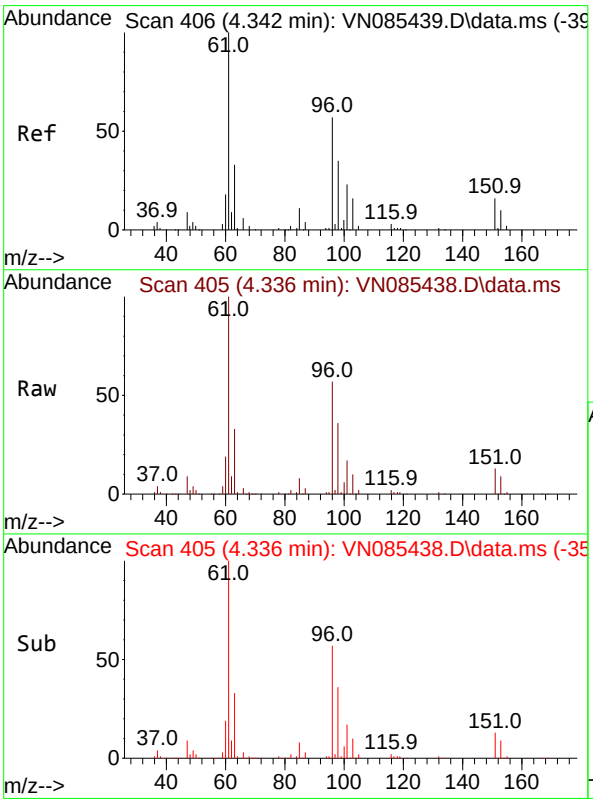
#11
Tert butyl alcohol
Concen: 462.061 ug/l
RT: 5.512 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 59 Resp: 173044

Ion	Ratio	Lower	Upper
59	100		
57	11.1	8.6	13.0

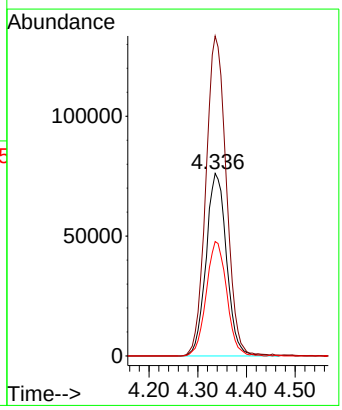


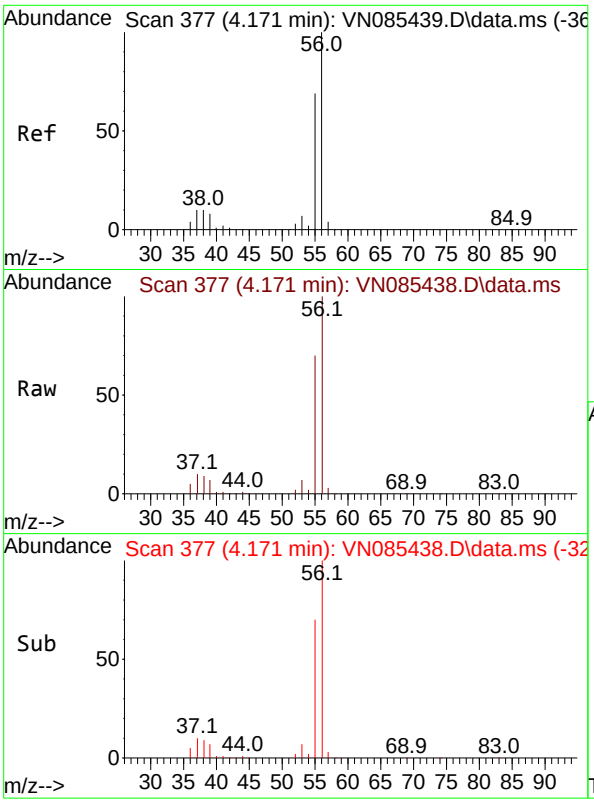


#12
1,1-Dichloroethene
Concen: 102.146 ug/l
RT: 4.336 min Scan# 405
Delta R.T. -0.006 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 96 Resp: 222117

Ion	Ratio	Lower	Upper
96	100		
61	175.3	141.0	211.4
98	62.7	49.0	73.6



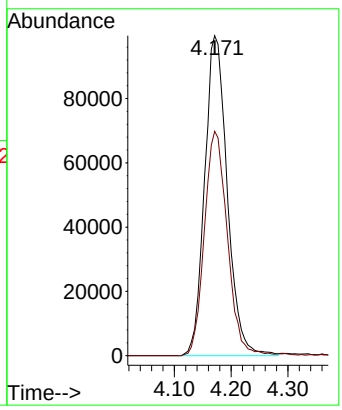


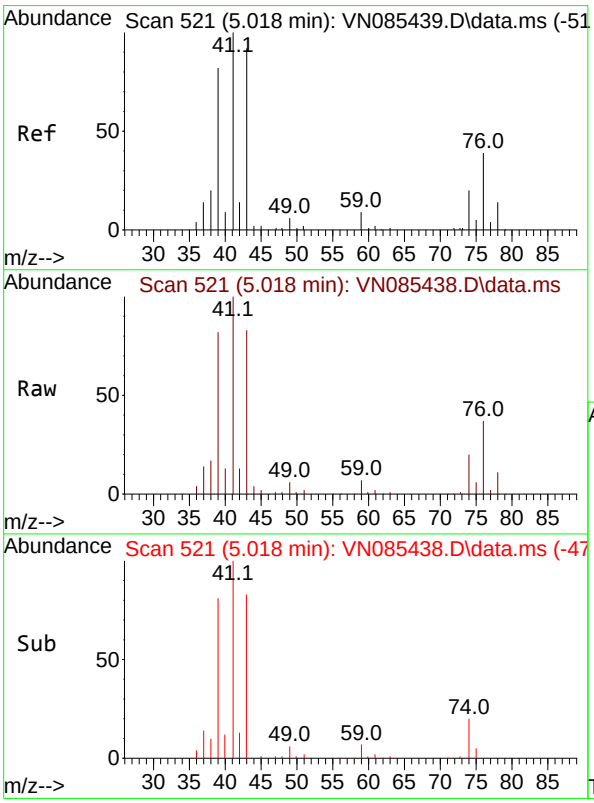
#13
Acrolein
Concen: 538.600 ug/l
RT: 4.171 min Scan# 3
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 56 Resp: 275350

Ion	Ratio	Lower	Upper
56	100		
55	71.1	56.3	84.5

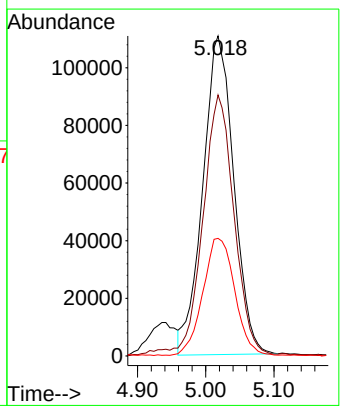


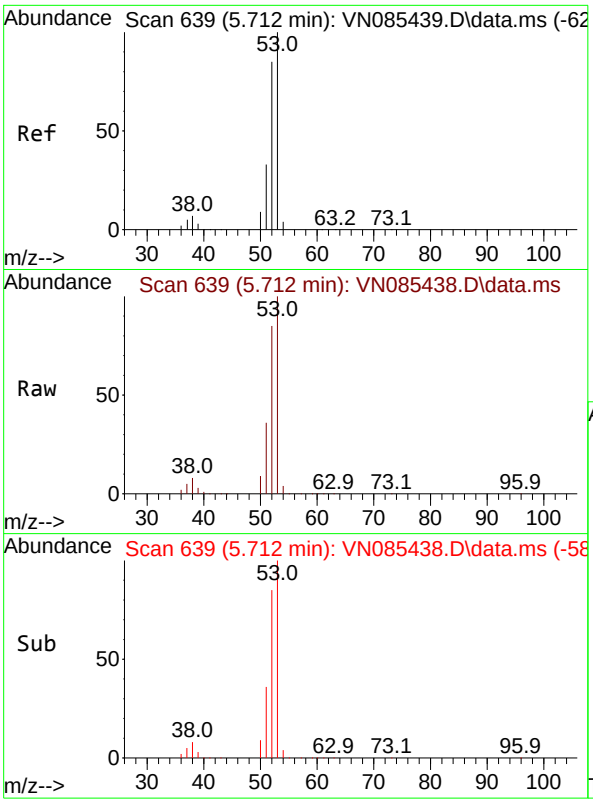


#14
Allyl chloride
Concen: 99.111 ug/l
RT: 5.018 min Scan# 521
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 41 Resp: 349717

Ion	Ratio	Lower	Upper
41	100		
39	83.3	64.4	96.6
76	37.9	30.5	45.7



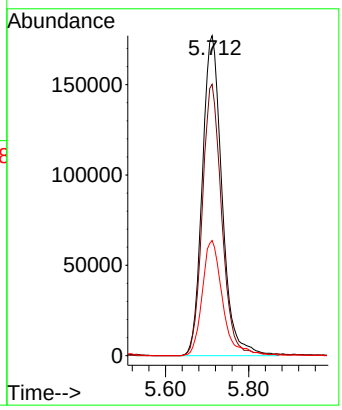


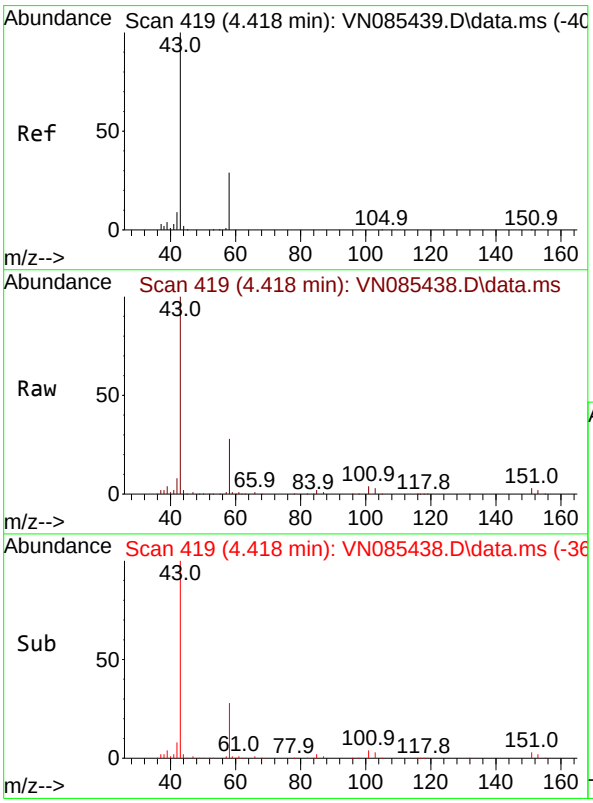
#15
Acrylonitrile
Concen: 492.095 ug/l
RT: 5.712 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 53 Resp: 585370

Ion	Ratio	Lower	Upper
53	100		
52	83.0	65.5	98.3
51	37.1	29.8	44.8

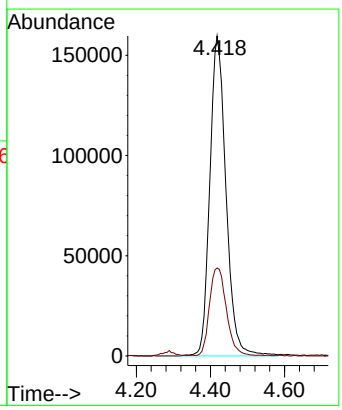


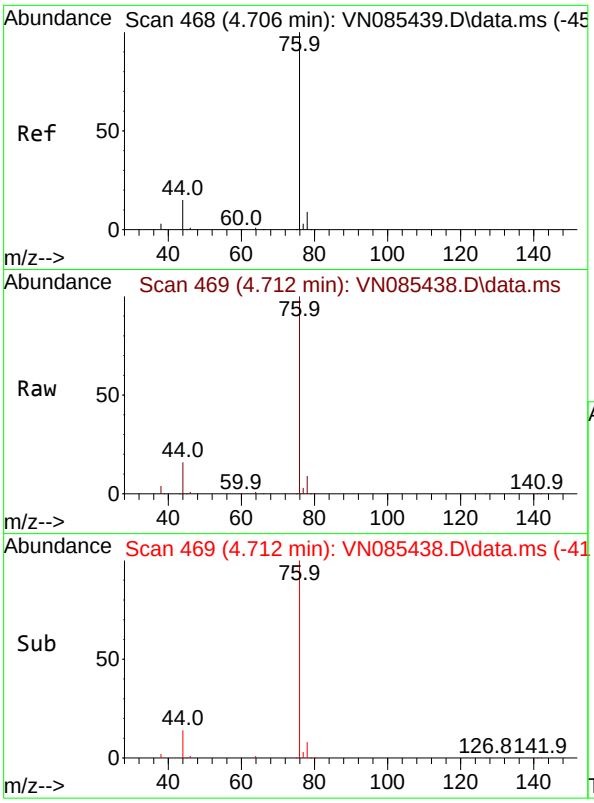


#16
Acetone
Concen: 457.268 ug/l
RT: 4.418 min Scan# 419
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 43 Resp: 483221

Ion	Ratio	Lower	Upper
43	100		
58	27.3	23.8	35.6



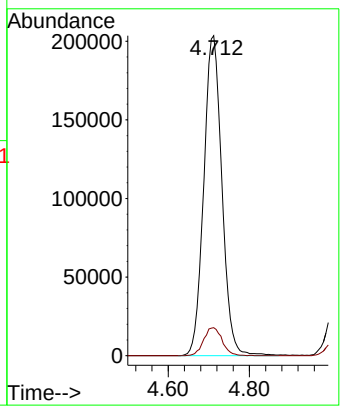


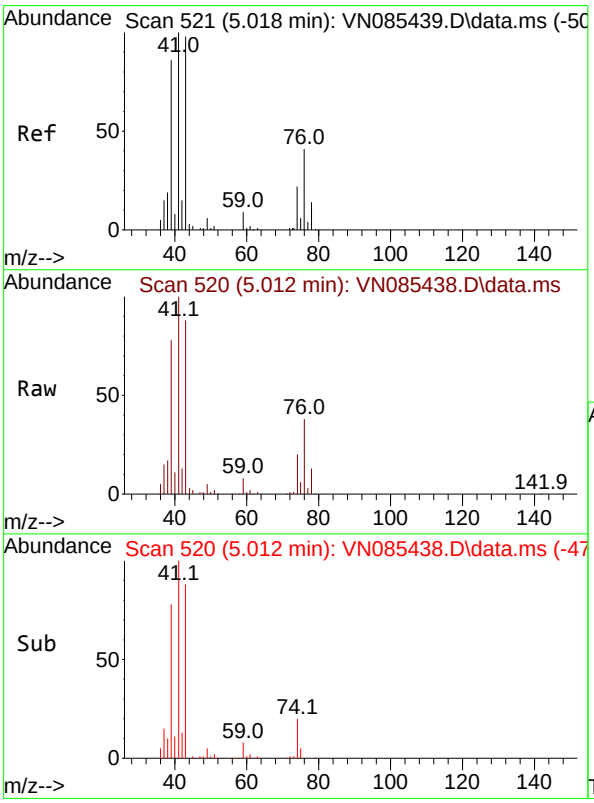
#17
Carbon Disulfide
Concen: 94.140 ug/l
RT: 4.712 min Scan# 4
Delta R.T. 0.006 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 76 Resp: 630294

Ion	Ratio	Lower	Upper
76	100		
78	8.7	6.9	10.3

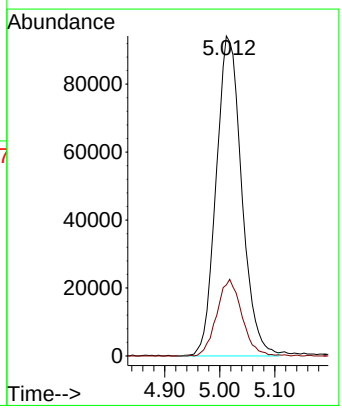


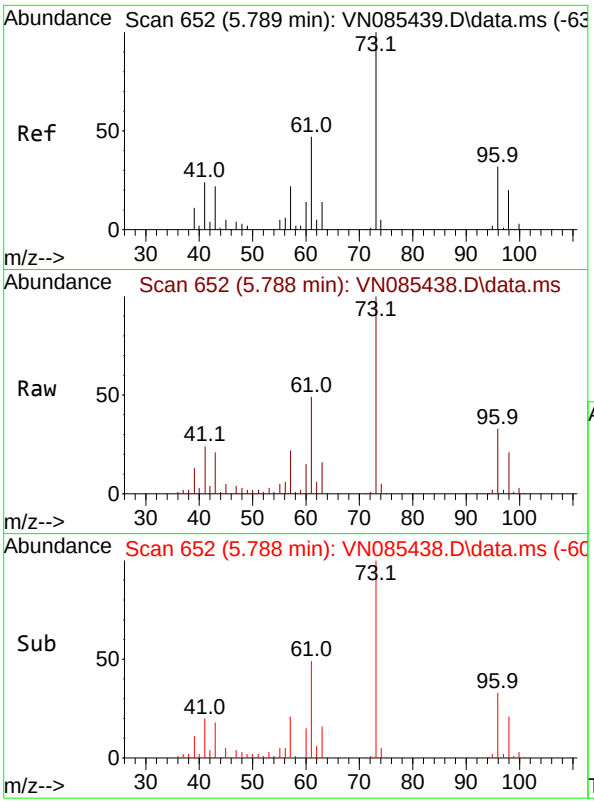


#18
Methyl Acetate
Concen: 94.674 ug/l
RT: 5.012 min Scan# 520
Delta R.T. -0.006 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 43 Resp: 304226

Ion	Ratio	Lower	Upper
43	100		
74	23.6	18.6	28.0



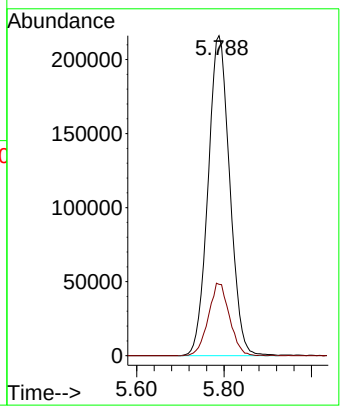


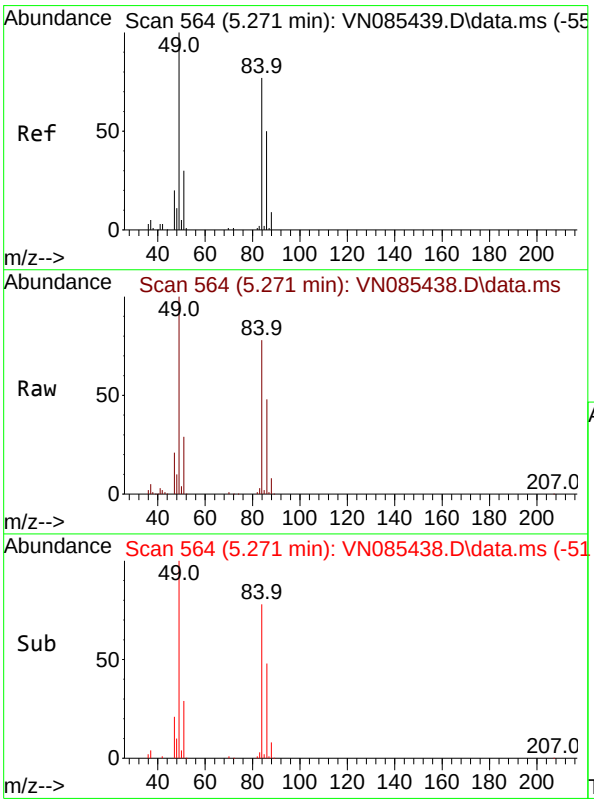
#19
Methyl tert-butyl Ether
Concen: 105.230 ug/l
RT: 5.788 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 73 Resp: 743008

Ion	Ratio	Lower	Upper
73	100		
57	22.3	17.8	26.8

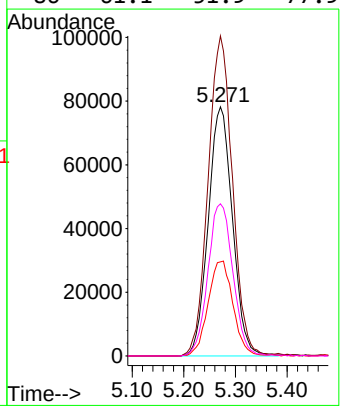


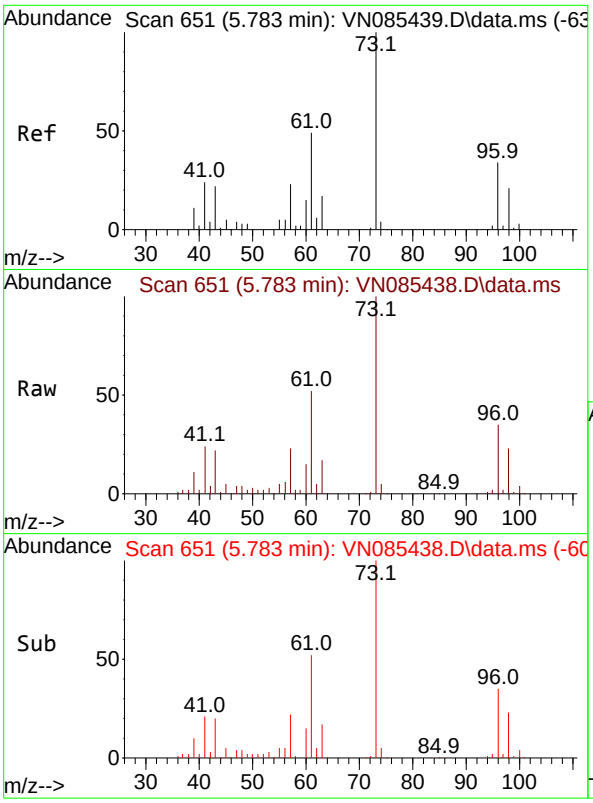


#20
Methylene Chloride
Concen: 97.440 ug/l
RT: 5.271 min Scan# 564
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 84 Resp: 254912

Ion	Ratio	Lower	Upper
84	100		
49	128.5	104.1	156.1
51	37.8	31.0	46.4
86	61.1	51.9	77.9



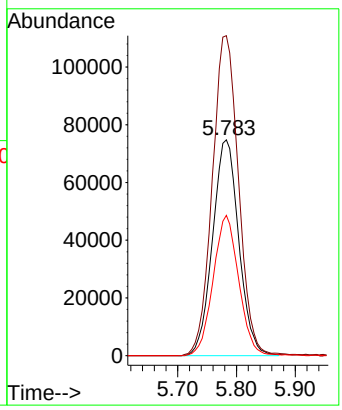


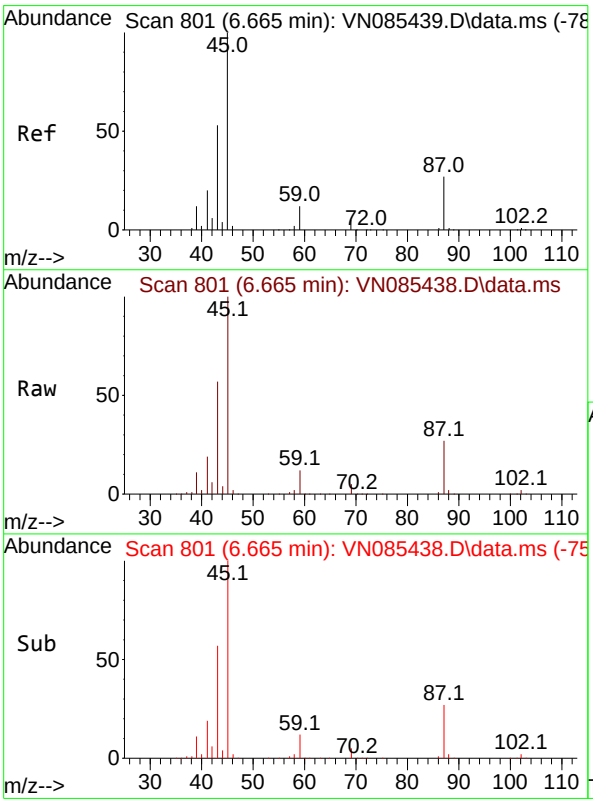
#21
trans-1,2-Dichloroethene
Concen: 99.618 ug/l
RT: 5.783 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 96 Resp: 231503

Ion	Ratio	Lower	Upper
96	100		
61	148.3	115.7	173.5
98	65.0	49.8	74.8

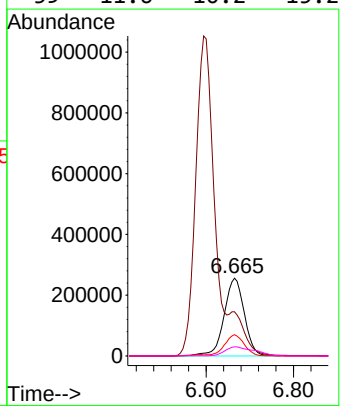


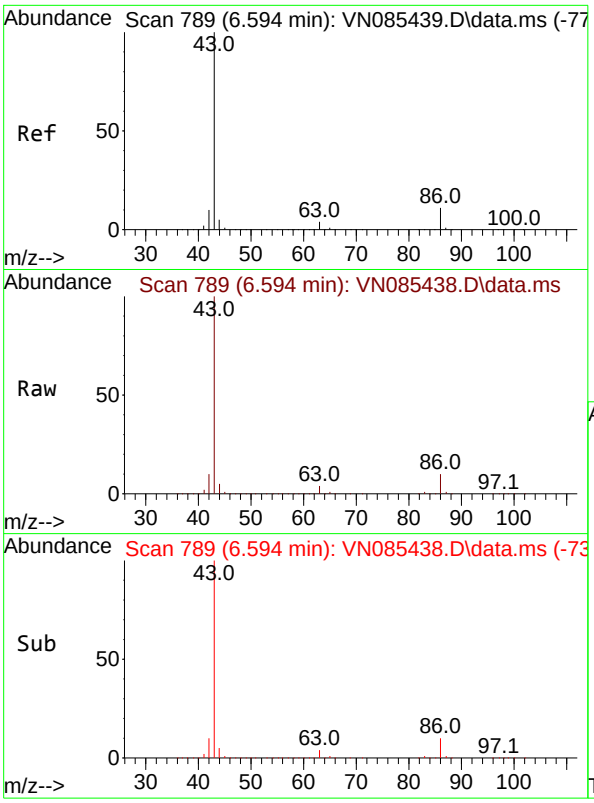


#22
Diisopropyl ether
Concen: 104.812 ug/l
RT: 6.665 min Scan# 801
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 45 Resp: 820871

Ion	Ratio	Lower	Upper
45	100		
43	55.7	45.0	67.6
87	27.2	21.8	32.8
59	11.6	10.2	15.2



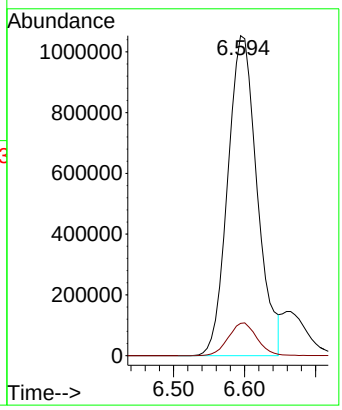


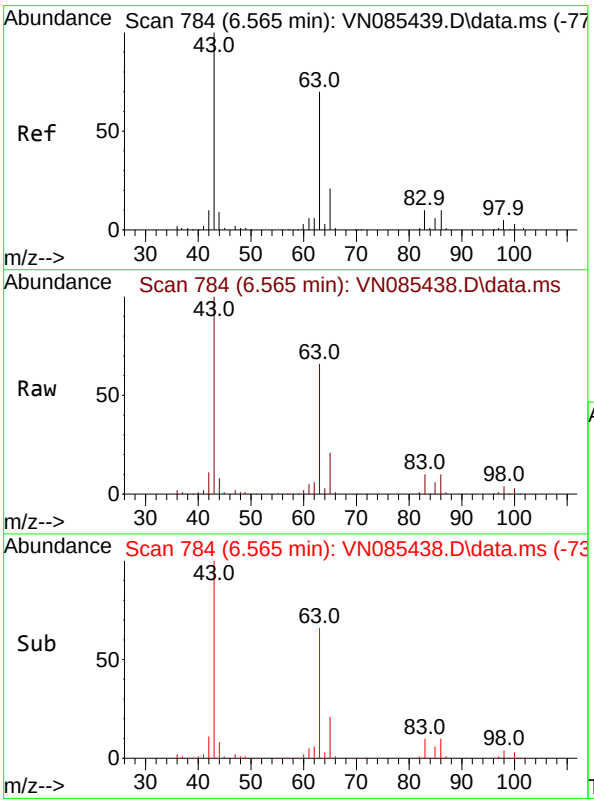
#23
Vinyl Acetate
Concen: 550.850 ug/l
RT: 6.594 min Scan# 7
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 3029568

Ion	Ratio	Lower	Upper
43	100		
86	10.1	8.4	12.6

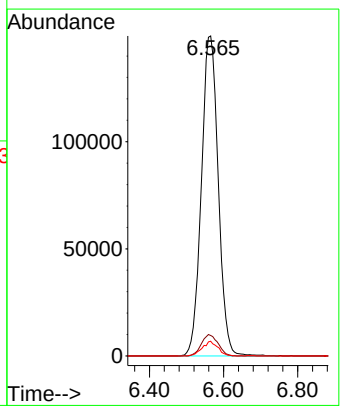


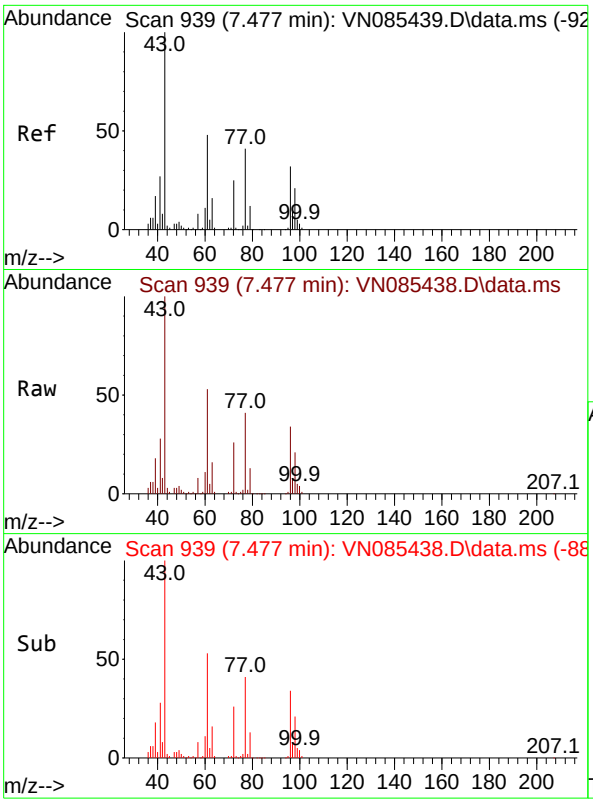


#24
1,1-Dichloroethane
Concen: 98.803 ug/l
RT: 6.565 min Scan# 784
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 63 Resp: 471831

Ion	Ratio	Lower	Upper
63	100		
98	6.4	3.3	9.8
100	4.6	2.0	6.0



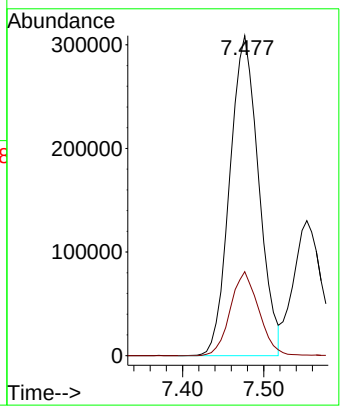


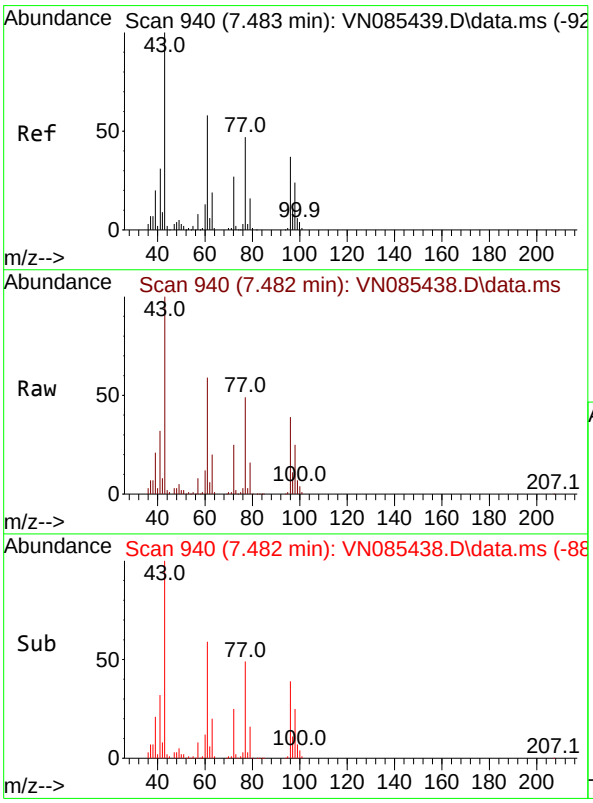
#25
2-Butanone
Concen: 491.912 ug/l
RT: 7.477 min Scan# 9
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 764979

Ion	Ratio	Lower	Upper
43	100		
72	26.3	20.2	30.4

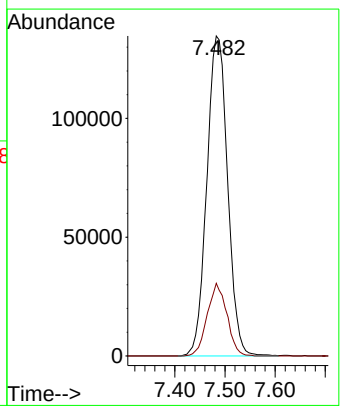


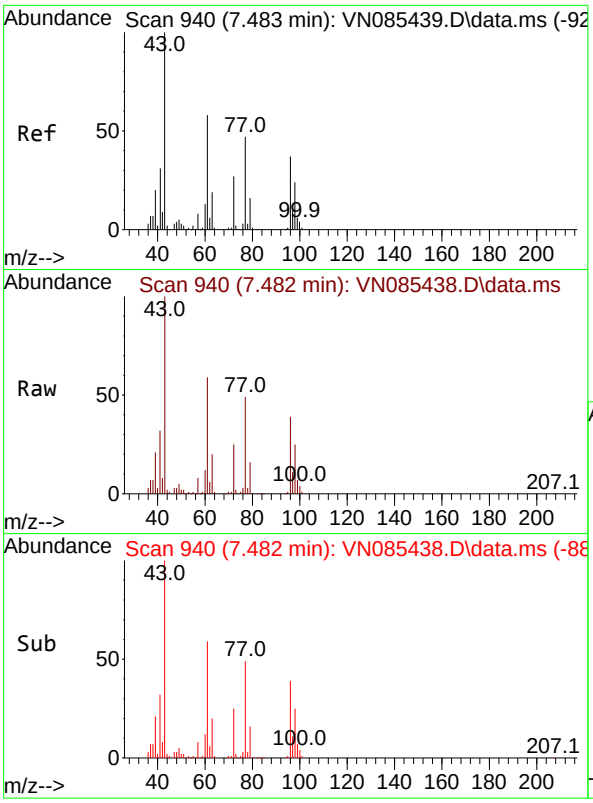


#26
2,2-Dichloropropane
Concen: 100.530 ug/l
RT: 7.482 min Scan# 940
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 77 Resp: 388140

Ion	Ratio	Lower	Upper
77	100		
97	21.4	10.7	32.1



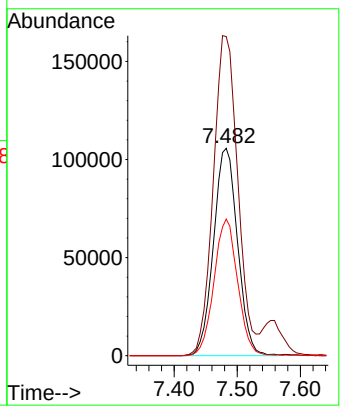


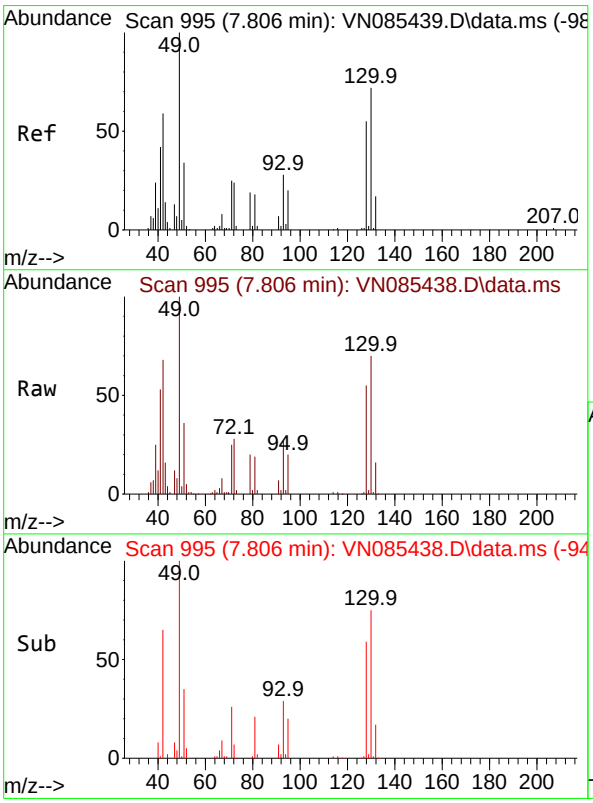
#27
cis-1,2-Dichloroethene
Concen: 102.367 ug/l
RT: 7.482 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 96 Resp: 280197

Ion	Ratio	Lower	Upper
96	100		
61	156.8	0.0	311.8
98	65.0	0.0	126.0

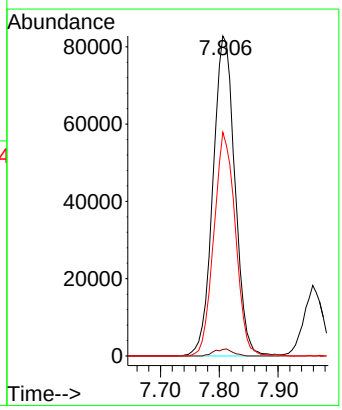


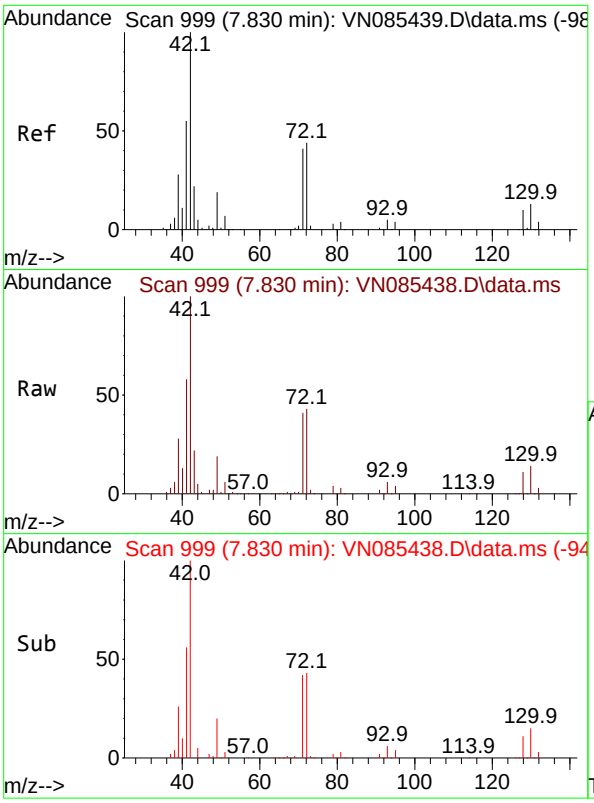


#28
Bromochloromethane
Concen: 96.679 ug/l
RT: 7.806 min Scan# 995
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 49 Resp: 214796

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	4.4
130	68.4	55.0	82.4



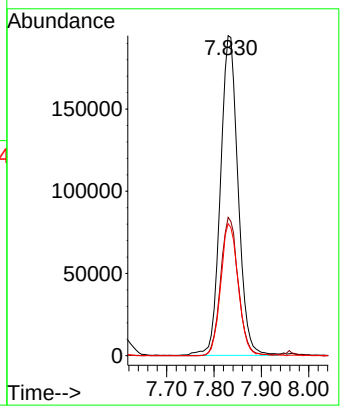


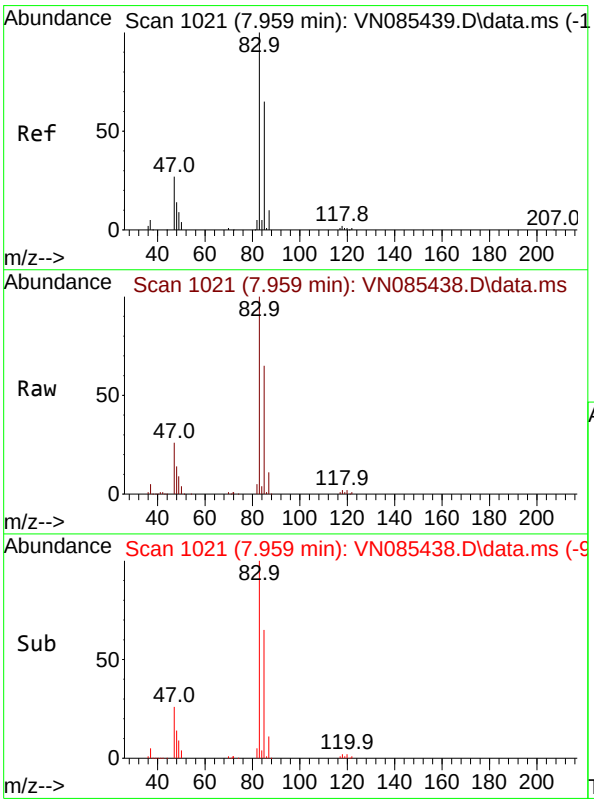
#29
Tetrahydrofuran
Concen: 510.635 ug/l
RT: 7.830 min Scan# 9
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 42 Resp: 503459

Ion	Ratio	Lower	Upper
42	100		
72	43.1	34.2	51.2
71	40.9	32.5	48.7

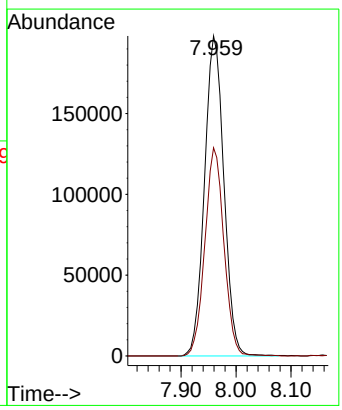


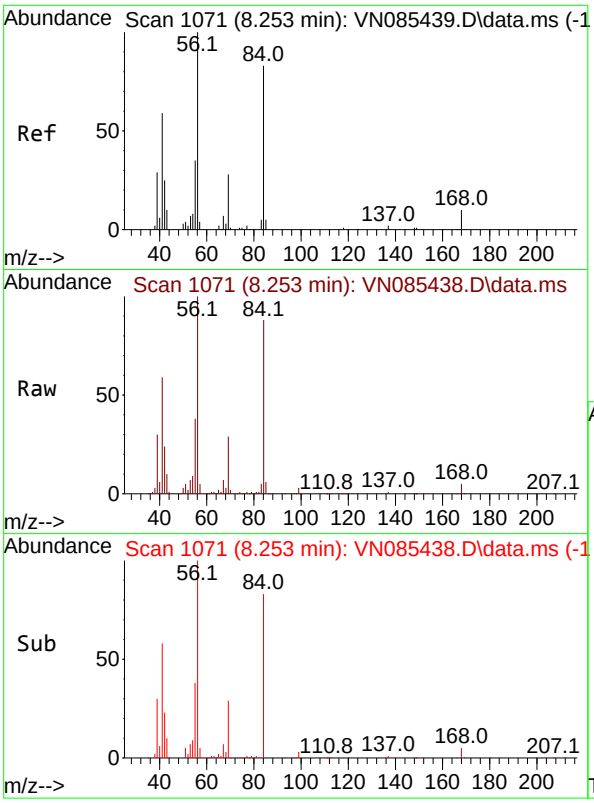


#30
Chloroform
Concen: 98.253 ug/l
RT: 7.959 min Scan# 1021
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 83 Resp: 484941

Ion	Ratio	Lower	Upper
83	100		
85	65.0	51.8	77.6



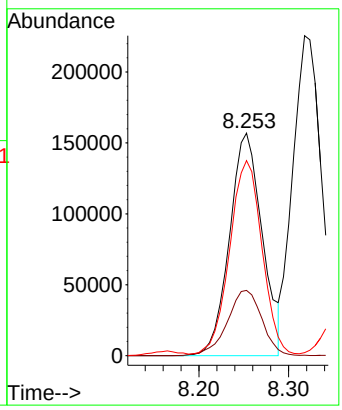


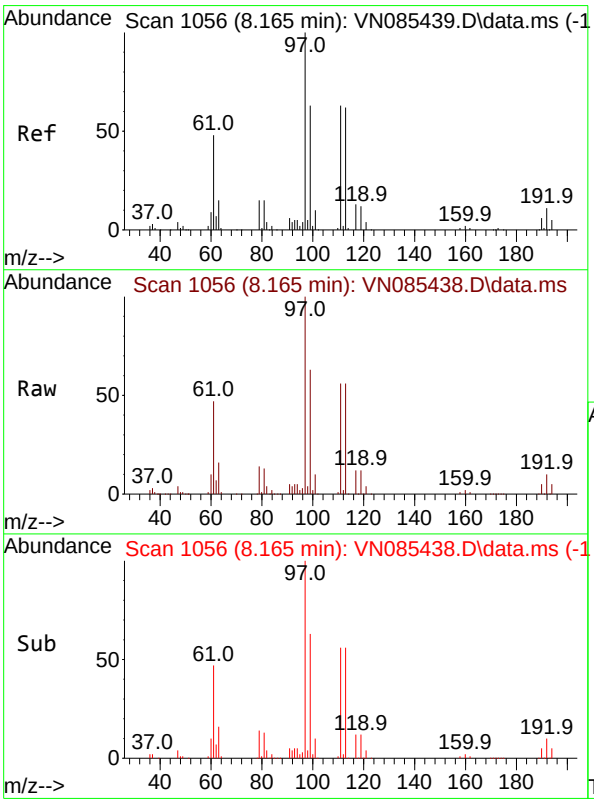
#31
Cyclohexane
Concen: 96.041 ug/l
RT: 8.253 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 56 Resp: 398641

Ion	Ratio	Lower	Upper
56	100		
69	29.2	22.2	33.4
84	86.4	66.4	99.6

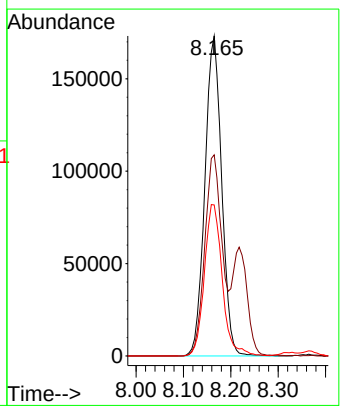


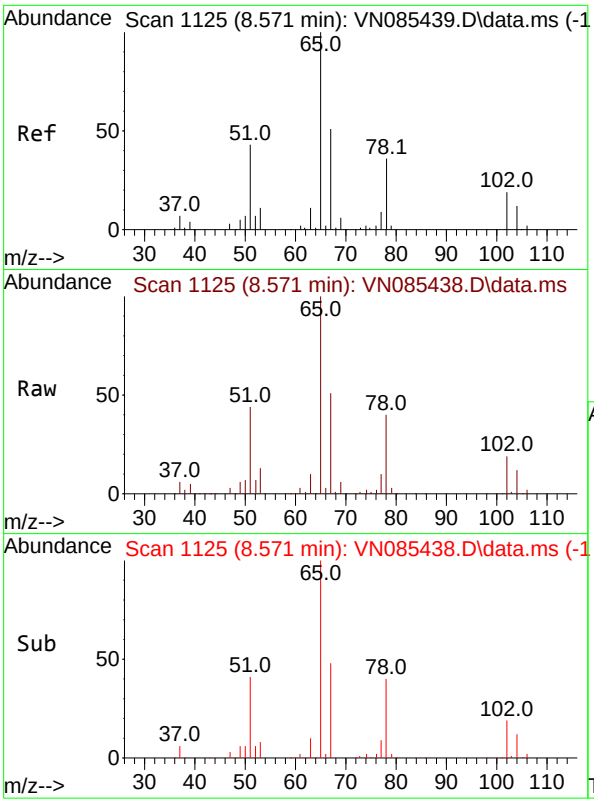


#32
1,1,1-Trichloroethane
Concen: 98.578 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 97 Resp: 426782

Ion	Ratio	Lower	Upper
97	100		
99	64.2	49.8	74.6
61	50.6	41.4	62.2



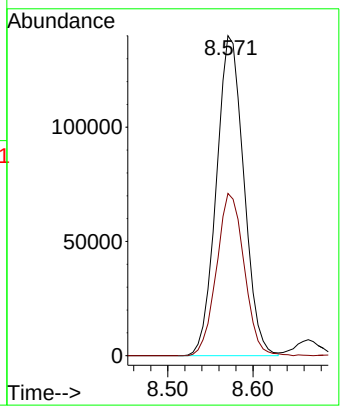


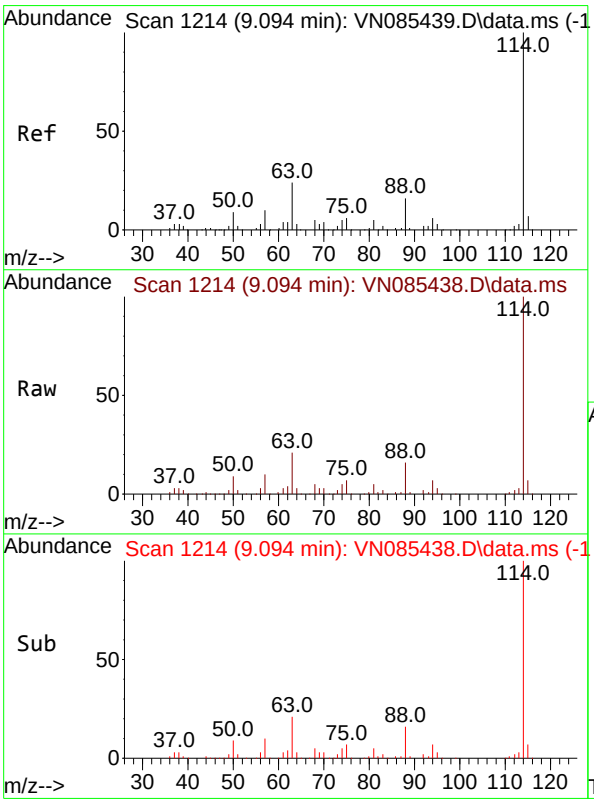
#33
1,2-Dichloroethane-d4
Concen: 95.899 ug/l
RT: 8.571 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 65 Resp: 313645

Ion	Ratio	Lower	Upper
65	100		
67	51.1	0.0	101.6

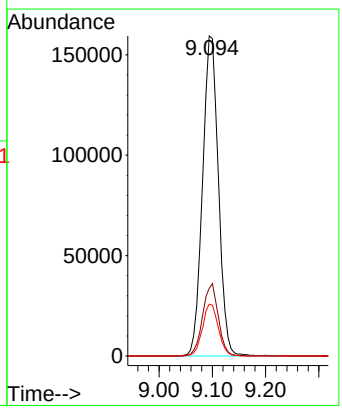


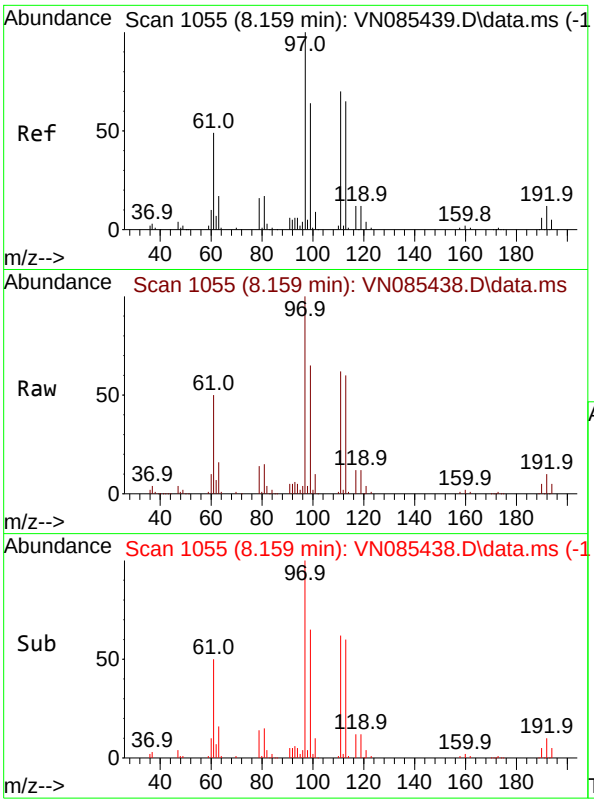


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.094 min Scan# 1214
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion:114 Resp: 329363

Ion	Ratio	Lower	Upper
114	100		
63	21.2	0.0	47.6
88	16.2	0.0	32.6



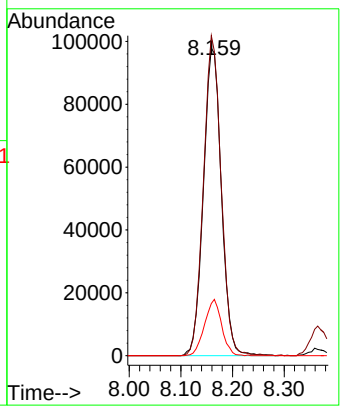


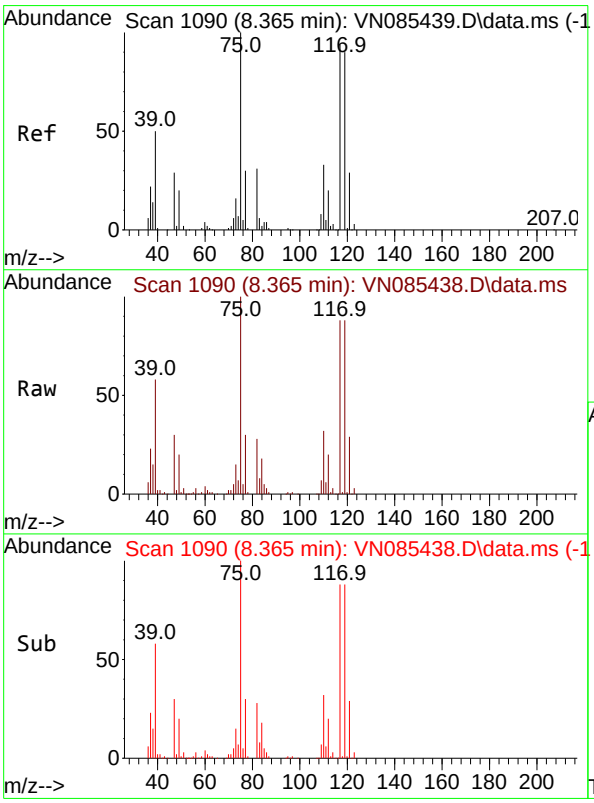
#35
Dibromofluoromethane
Concen: 103.353 ug/l
RT: 8.159 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:113 Resp: 236159

Ion	Ratio	Lower	Upper
113	100		
111	102.3	82.7	124.1
192	17.4	14.3	21.5

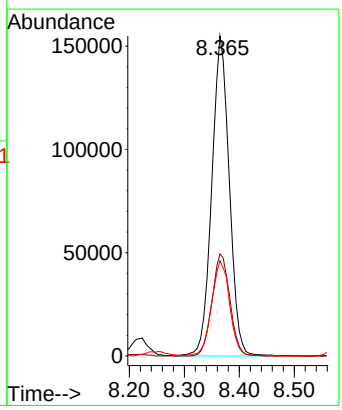


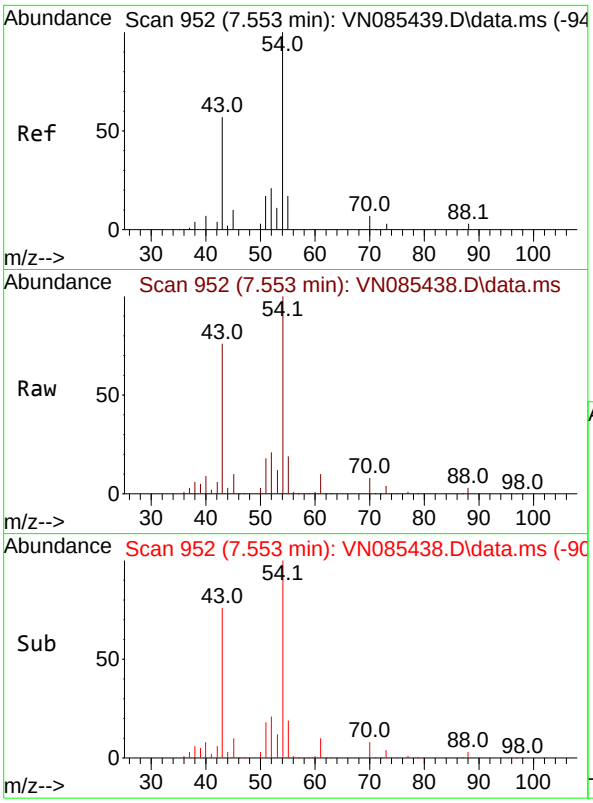


#36
1,1-Dichloropropene
Concen: 106.945 ug/l
RT: 8.365 min Scan# 1090
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 75 Resp: 342961

Ion	Ratio	Lower	Upper
75	100		
110	32.6	16.5	49.5
77	30.6	24.4	36.6



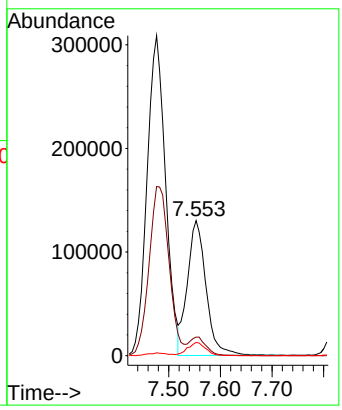


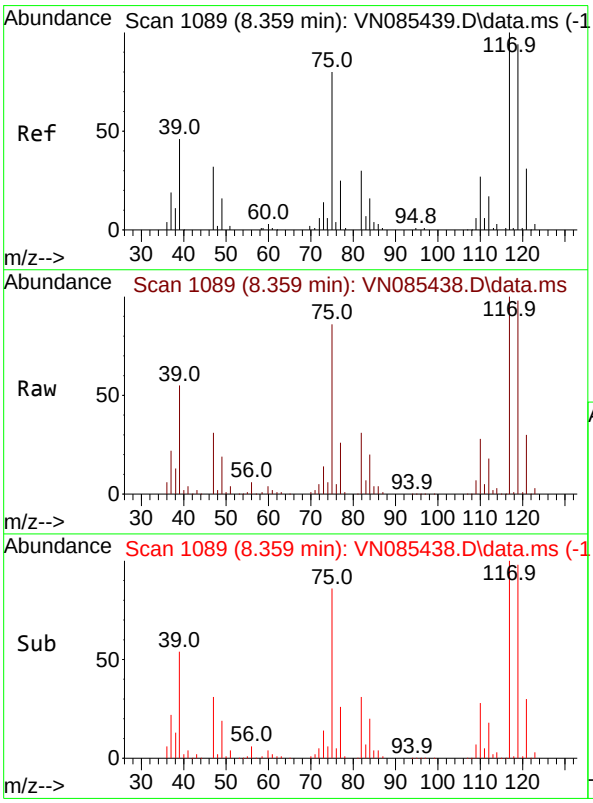
#37
Ethyl Acetate
Concen: 100.961 ug/l
RT: 7.553 min Scan# 9
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 326802

Ion	Ratio	Lower	Upper
43	100		
61	12.0	10.9	16.3
70	9.6	7.5	11.3

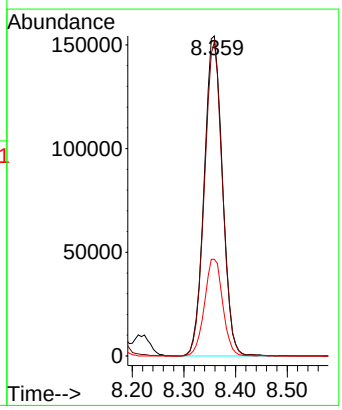


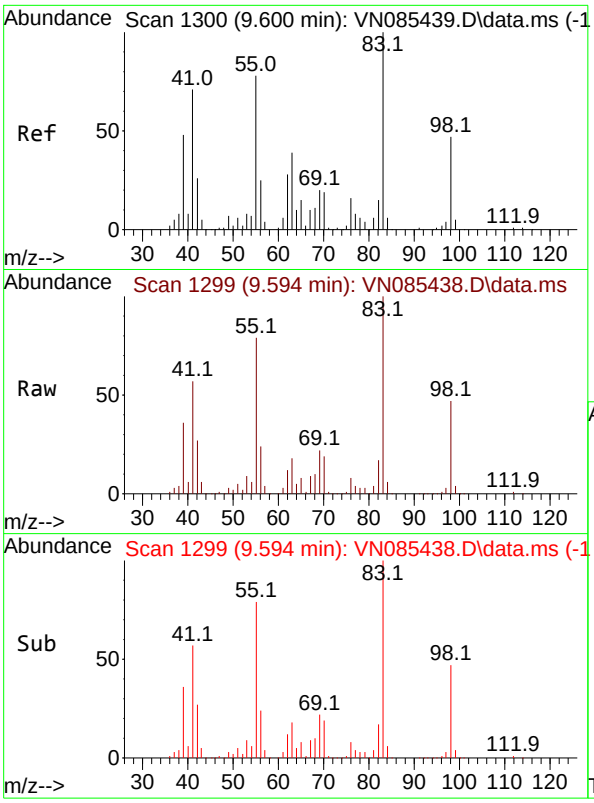


#38
Carbon Tetrachloride
Concen: 103.065 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion:117 Resp: 378390

Ion	Ratio	Lower	Upper
117	100		
119	98.1	75.4	113.2
121	30.2	24.6	37.0



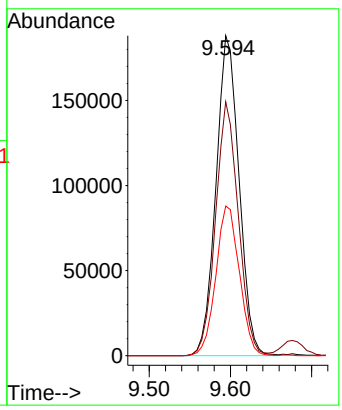


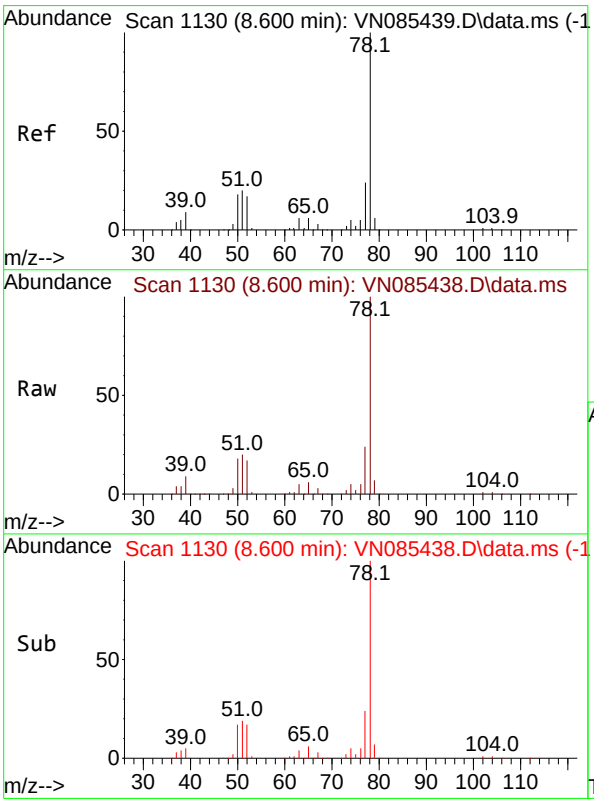
#39
Methylcyclohexane
Concen: 123.354 ug/l
RT: 9.594 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 83 Resp: 371734

Ion	Ratio	Lower	Upper
83	100		
55	79.3	62.6	94.0
98	46.7	37.7	56.5

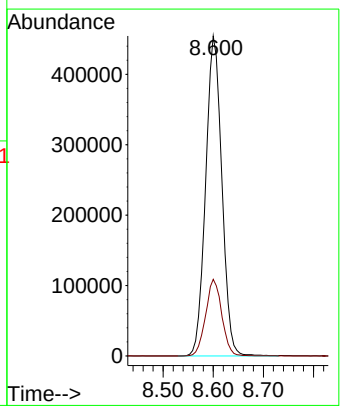


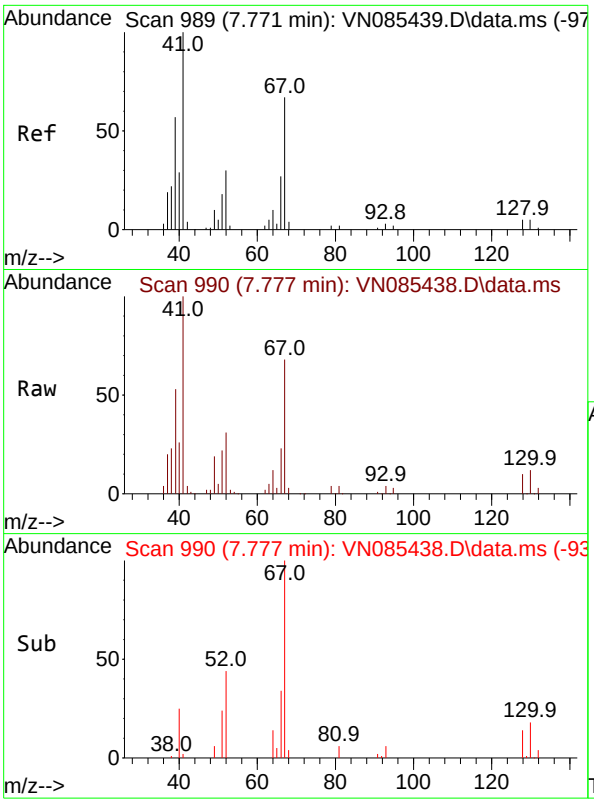


#40
Benzene
Concen: 106.001 ug/l
RT: 8.600 min Scan# 1130
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 78 Resp: 1021393

Ion	Ratio	Lower	Upper
78	100		
77	23.9	19.0	28.6



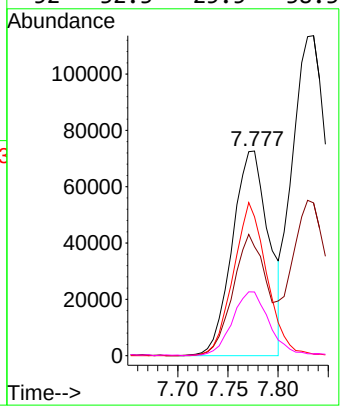


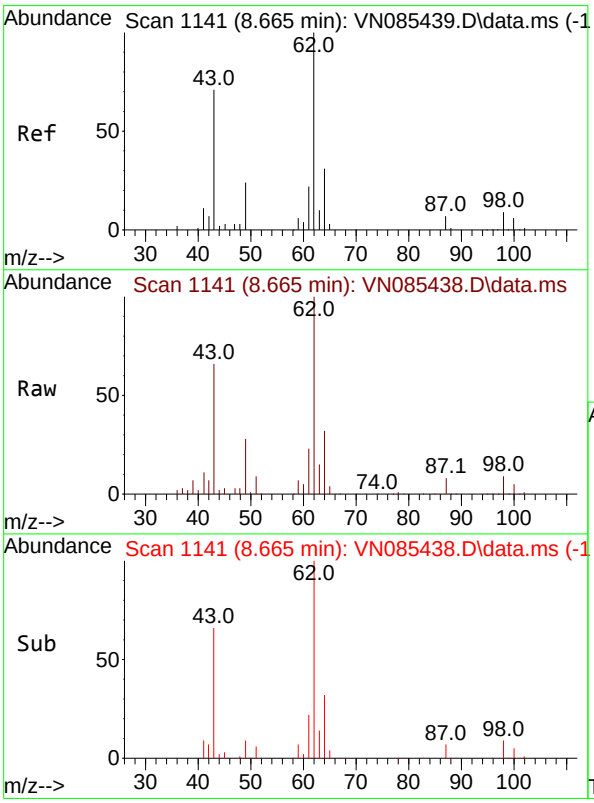
#41
Methacrylonitrile
Concen: 109.454 ug/l
RT: 7.777 min Scan# 9
Delta R.T. 0.006 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 41 Resp: 184326

Ion	Ratio	Lower	Upper
41	100		
39	52.8	46.0	69.0
67	68.8	57.4	86.2
52	32.3	25.5	38.3

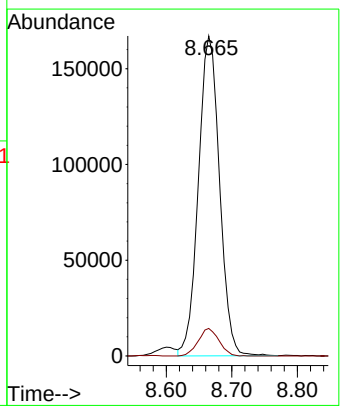


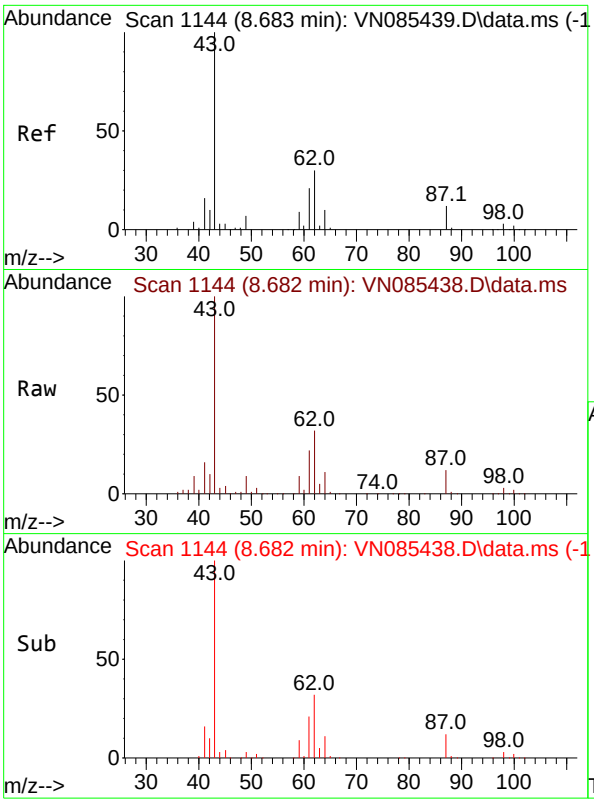


#42
1,2-Dichloroethane
Concen: 103.314 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 62 Resp: 374938

Ion	Ratio	Lower	Upper
62	100		
98	8.4	0.0	17.0



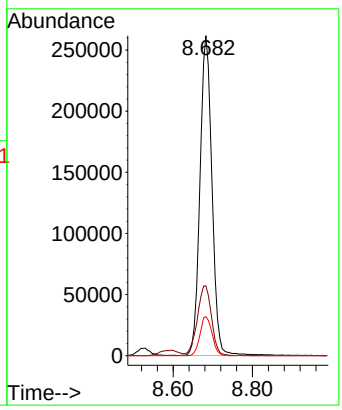


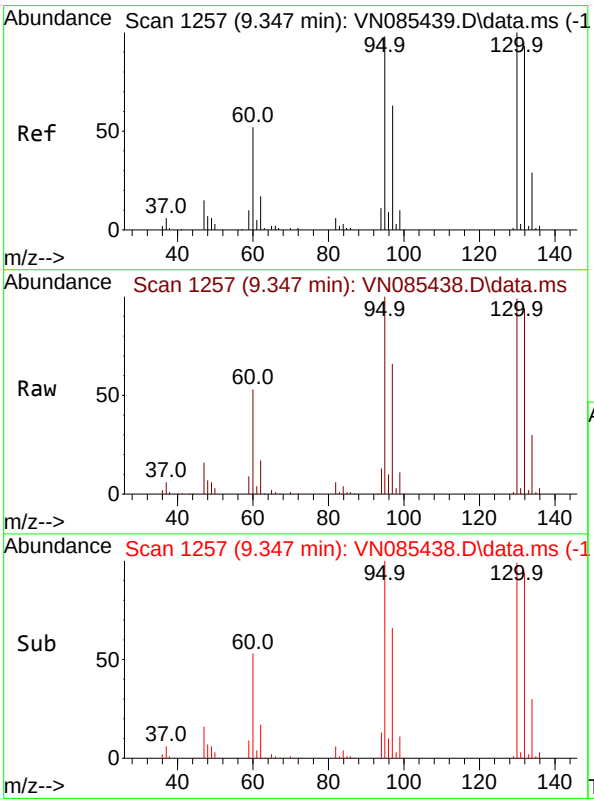
#43
Isopropyl Acetate
Concen: 106.035 ug/l
RT: 8.682 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 549969

Ion	Ratio	Lower	Upper
43	100		
61	25.7	20.7	31.1
87	12.2	9.8	14.8

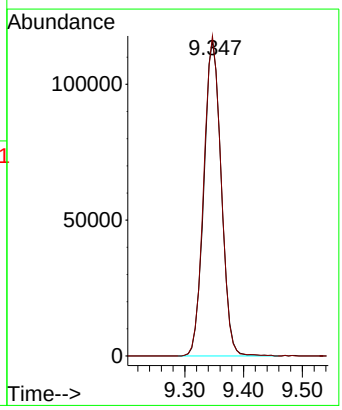


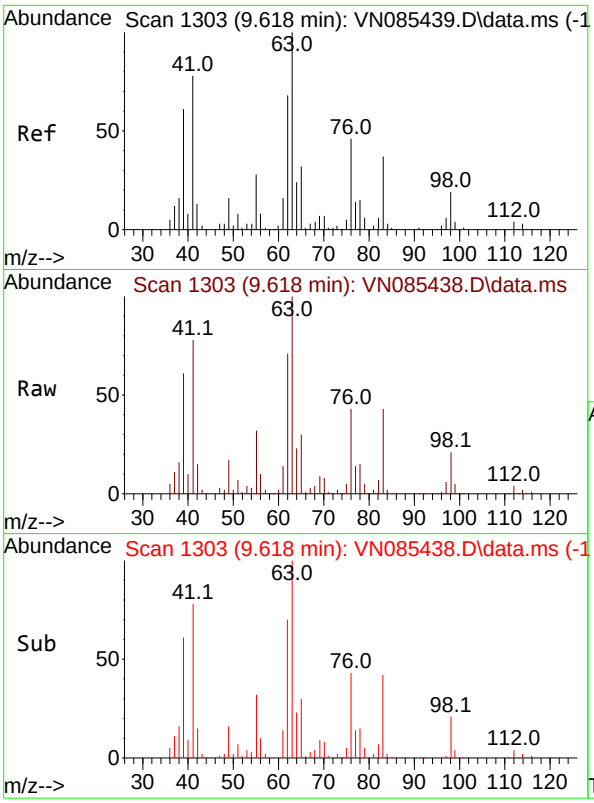


#44
Trichloroethene
Concen: 106.242 ug/l
RT: 9.347 min Scan# 1257
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion:130 Resp: 238296

Ion	Ratio	Lower	Upper
130	100		
95	101.5	0.0	195.8



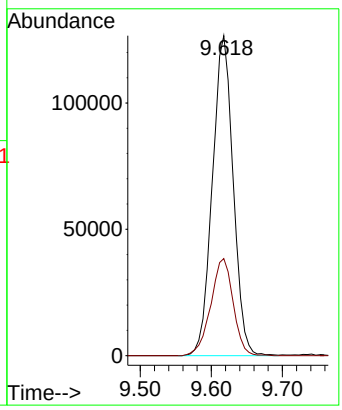


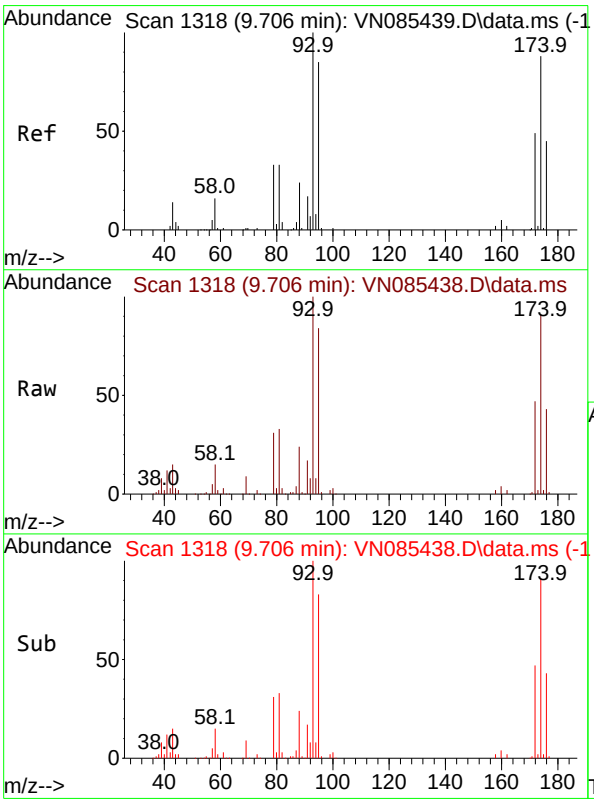
#45
1,2-Dichloropropane
Concen: 104.405 ug/l
RT: 9.618 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 63 Resp: 256964

Ion	Ratio	Lower	Upper
63	100		
65	30.3	25.6	38.4

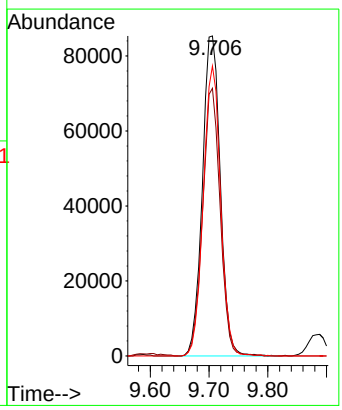


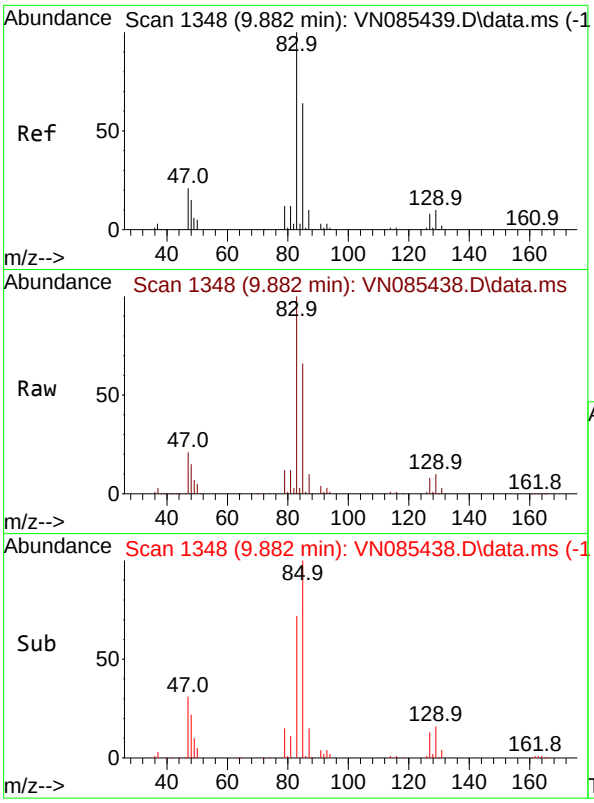


#46
Dibromomethane
Concen: 101.913 ug/l
RT: 9.706 min Scan# 1318
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 93 Resp: 180990

Ion	Ratio	Lower	Upper
93	100		
95	81.6	64.7	97.1
174	87.5	69.0	103.4



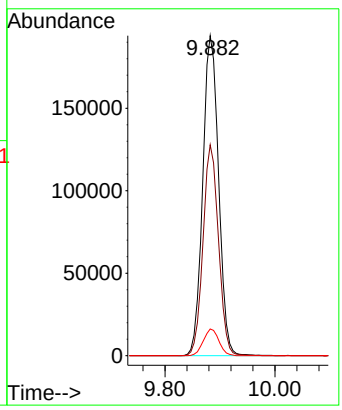


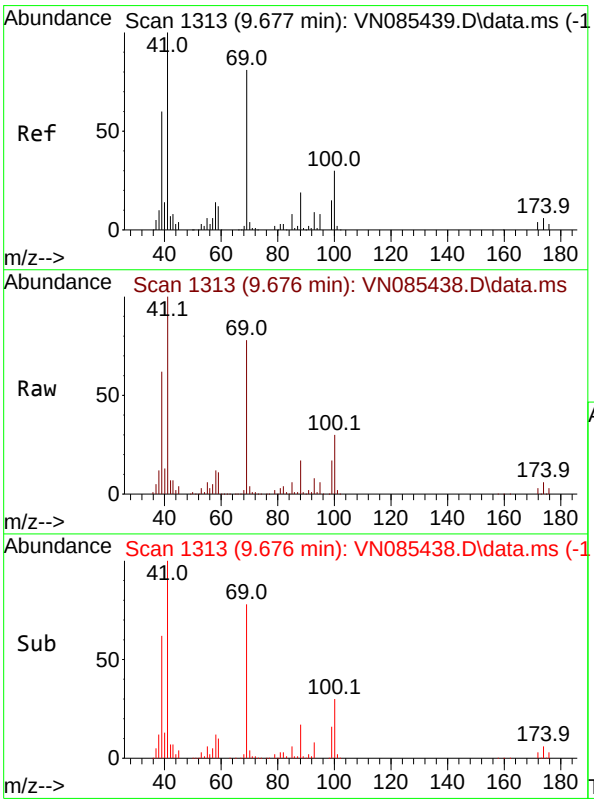
#47
Bromodichloromethane
Concen: 107.377 ug/l
RT: 9.882 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 83 Resp: 388499

Ion	Ratio	Lower	Upper
83	100		
85	65.9	51.2	76.8
127	8.4	6.5	9.7

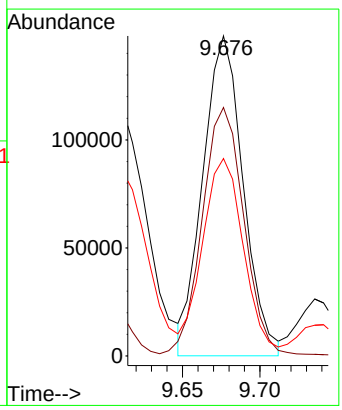


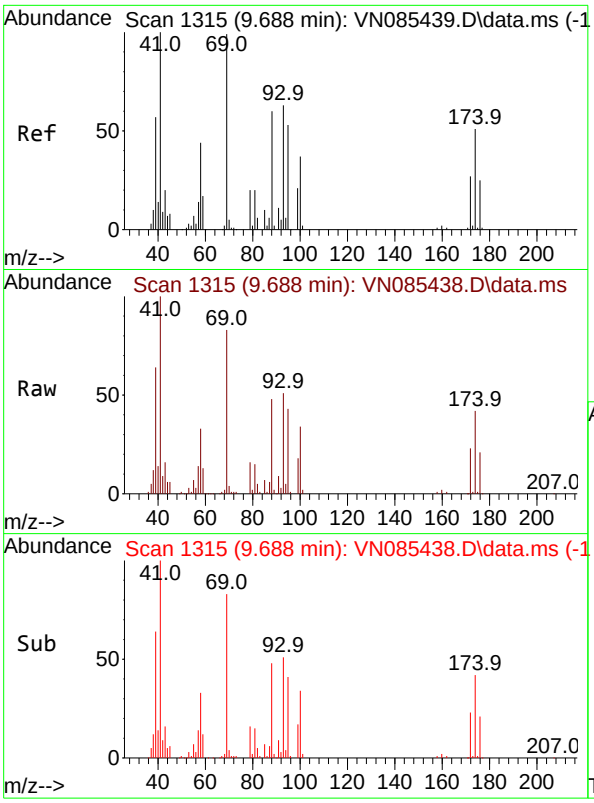


#48
Methyl methacrylate
Concen: 114.685 ug/l
RT: 9.676 min Scan# 1313
Delta R.T. -0.001 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 41 Resp: 267689

Ion	Ratio	Lower	Upper
41	100		
69	80.9	64.7	97.1
39	63.1	49.0	73.6



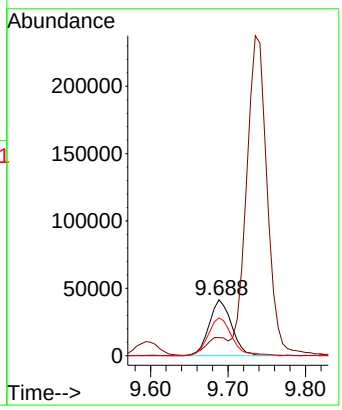


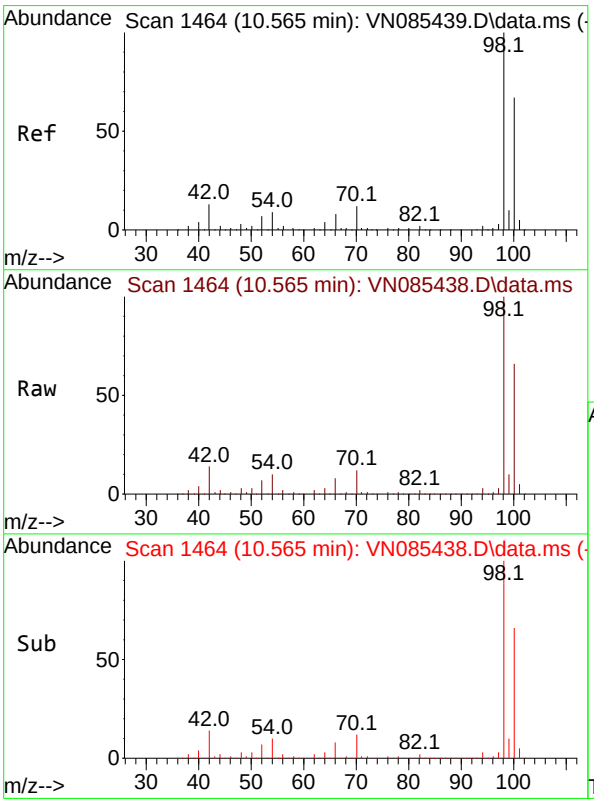
#49
1,4-Dioxane
Concen: 2133.992 ug/l
RT: 9.688 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 88 Resp: 83879

Ion	Ratio	Lower	Upper
88	100		
43	31.3	26.6	39.8
58	72.1	59.5	89.3

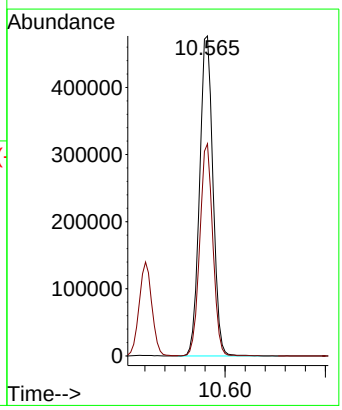


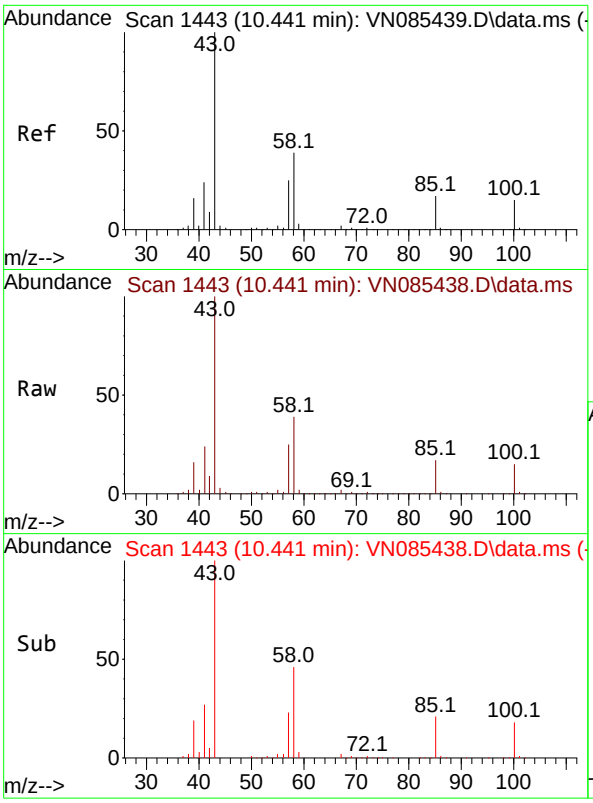


#50
Toluene-d8
Concen: 108.636 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 98 Resp: 881956

Ion	Ratio	Lower	Upper
98	100		
100	64.5	52.2	78.4



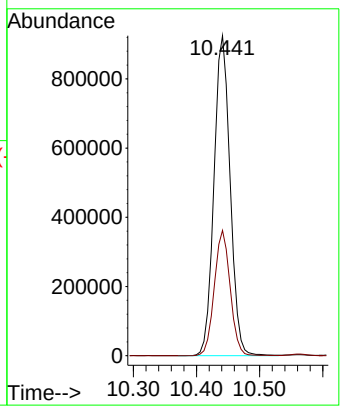


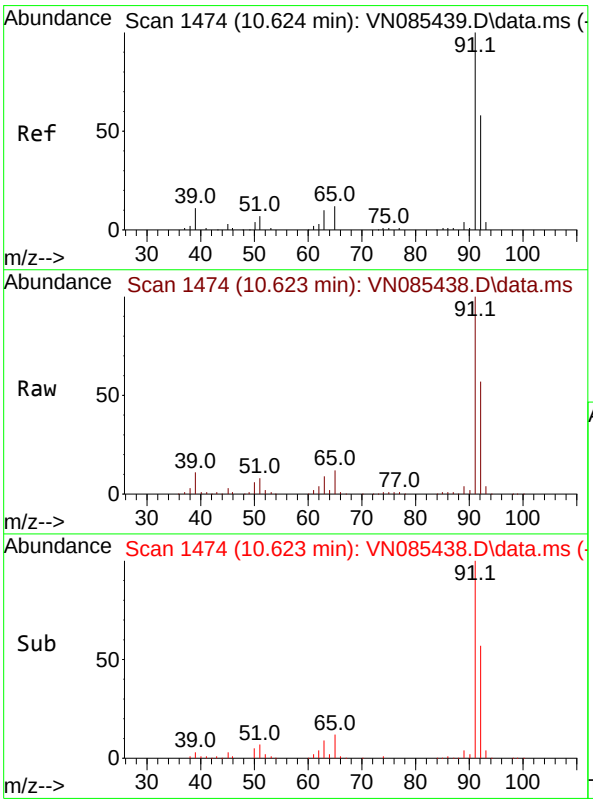
#51
4-Methyl-2-Pentanone
Concen: 546.159 ug/l
RT: 10.441 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 1643800

Ion	Ratio	Lower	Upper
43	100		
58	38.4	30.5	45.7

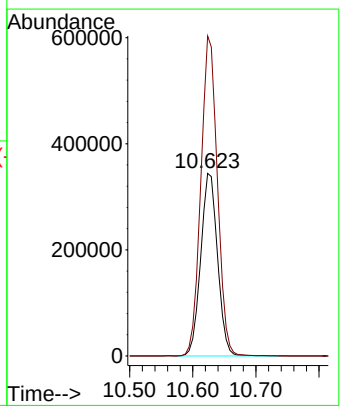


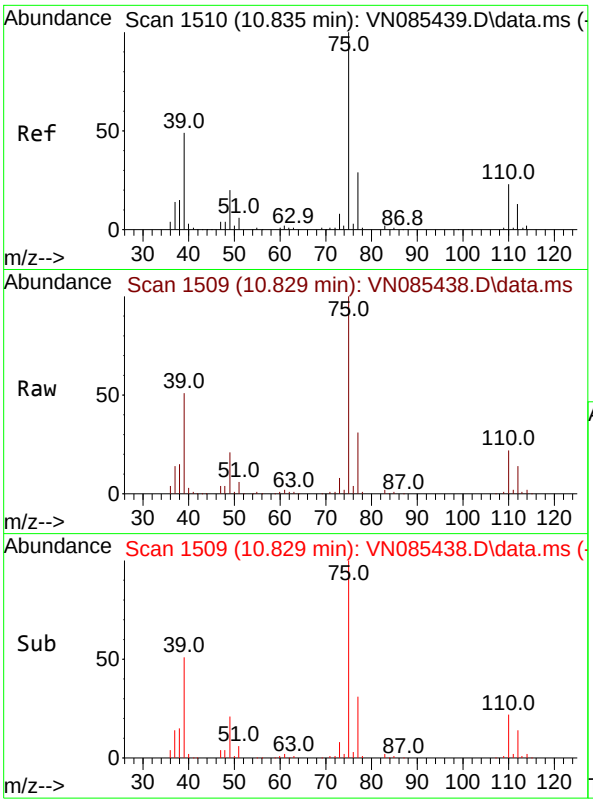


#52
Toluene
Concen: 113.689 ug/l
RT: 10.623 min Scan# 1474
Delta R.T. -0.001 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 92 Resp: 634743

Ion	Ratio	Lower	Upper
92	100		
91	173.1	139.2	208.8



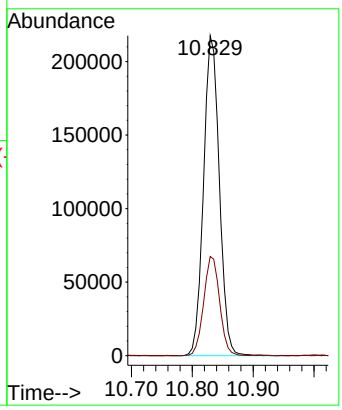


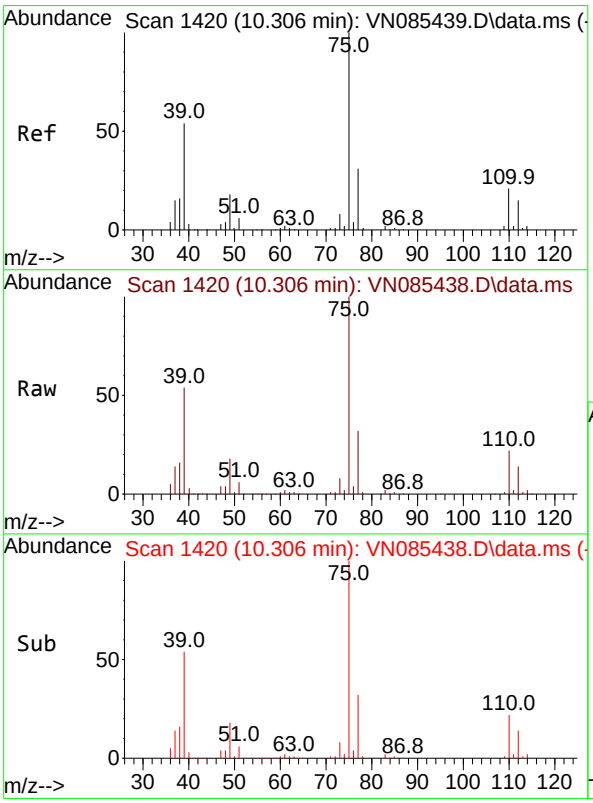
#53
t-1,3-Dichloropropene
Concen: 114.424 ug/l
RT: 10.829 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 75 Resp: 391238

Ion	Ratio	Lower	Upper
75	100		
77	31.0	23.5	35.3

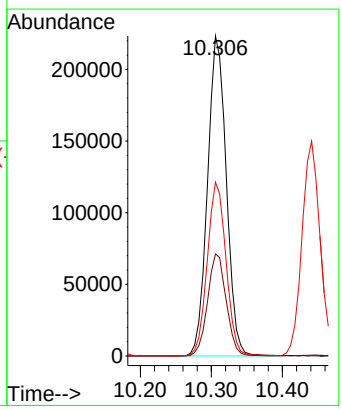


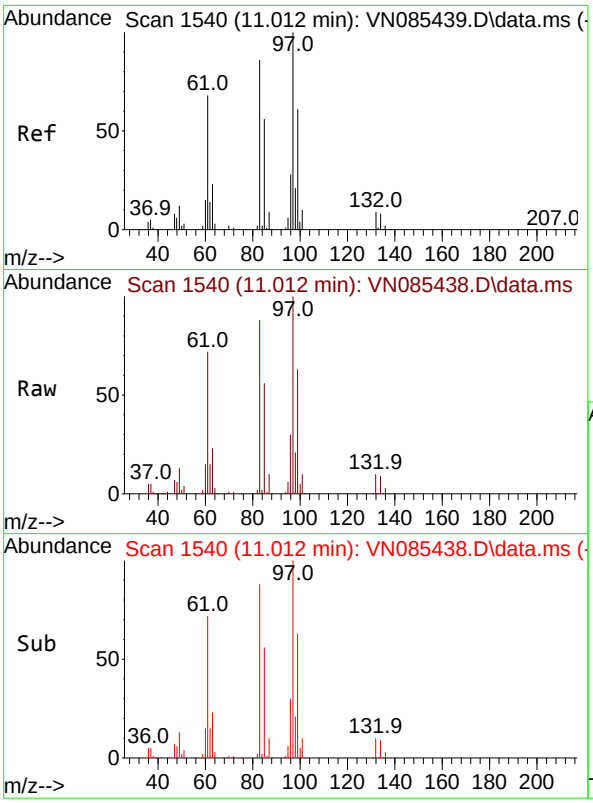


#54
cis-1,3-Dichloropropene
Concen: 112.369 ug/l
RT: 10.306 min Scan# 1420
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 75 Resp: 410403

Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.0	37.4
39	54.3	43.1	64.7



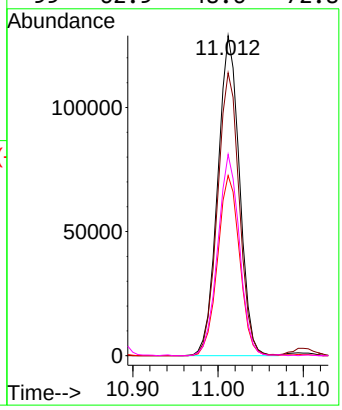


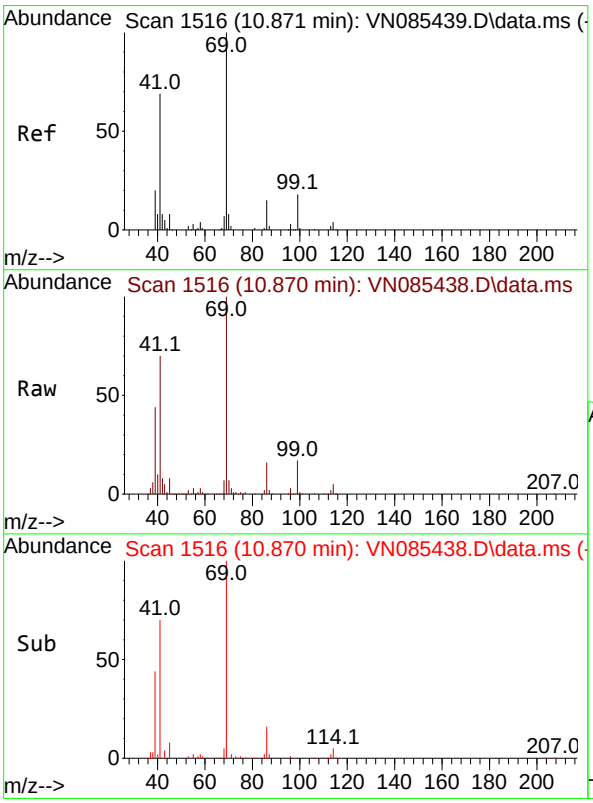
#55
1,1,2-Trichloroethane
Concen: 103.879 ug/l
RT: 11.012 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 97 Resp: 229522

Ion	Ratio	Lower	Upper
97	100		
83	88.4	69.0	103.6
85	56.3	44.6	66.8
99	62.9	48.6	72.8

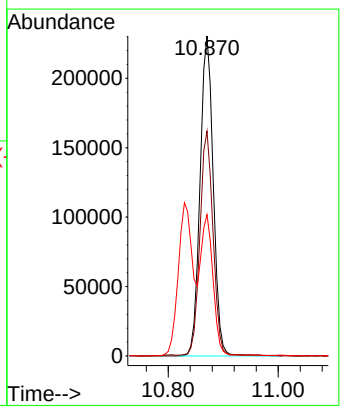


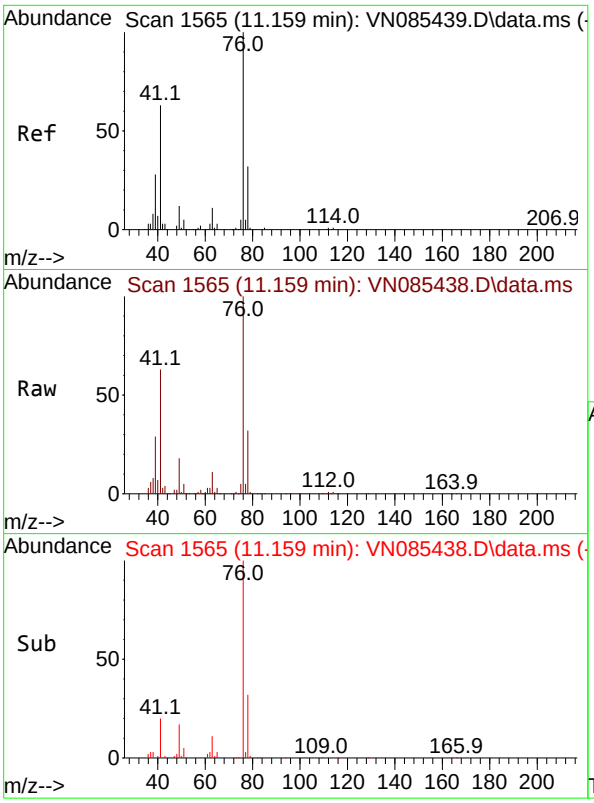


#56
Ethyl methacrylate
Concen: 101.029 ug/l
RT: 10.870 min Scan# 1516
Delta R.T. -0.001 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 69 Resp: 383663

Ion	Ratio	Lower	Upper
69	100		
41	69.1	54.6	82.0
39	40.1	32.4	48.6



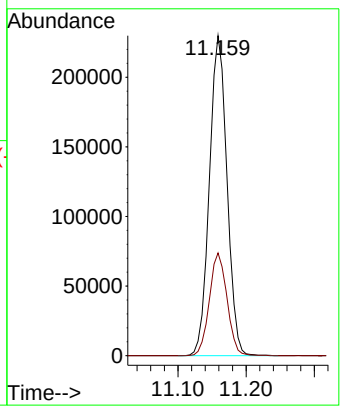


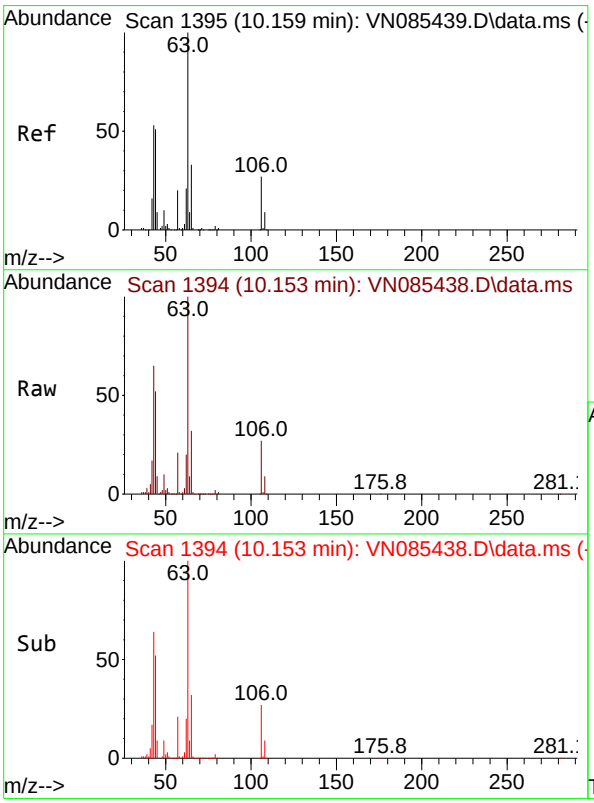
#57
1,3-Dichloropropane
Concen: 107.469 ug/l
RT: 11.159 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 76 Resp: 412886

Ion	Ratio	Lower	Upper
76	100		
78	32.2	25.6	38.4

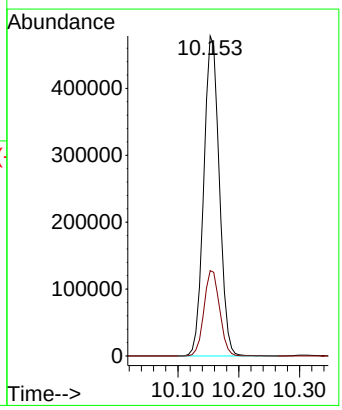


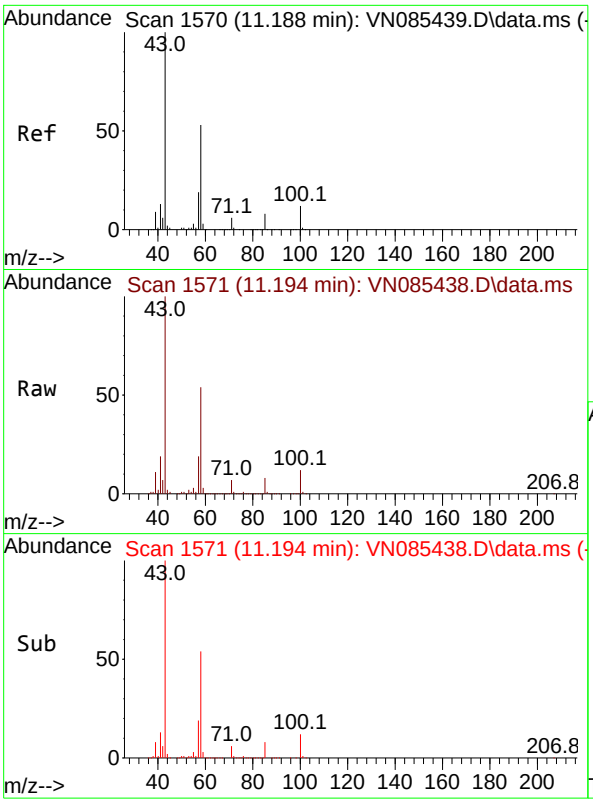


#58
2-Chloroethyl Vinyl ether
Concen: 605.243 ug/l
RT: 10.153 min Scan# 1394
Delta R.T. -0.006 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 63 Resp: 848636

Ion	Ratio	Lower	Upper
63	100		
106	26.8	21.6	32.4



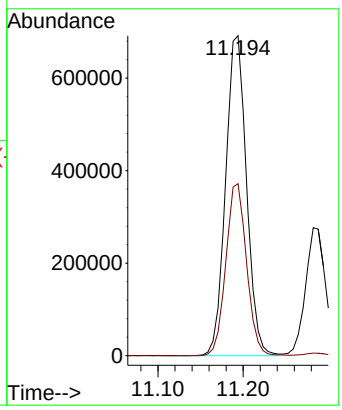


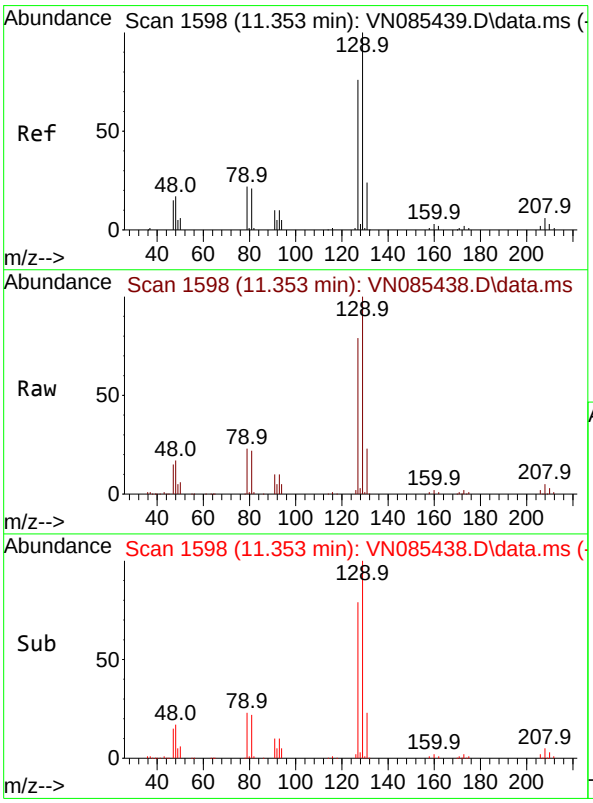
#59
2-Hexanone
Concen: 556.643 ug/l
RT: 11.194 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 1178831

Ion	Ratio	Lower	Upper
43	100		
58	53.2	26.2	78.6

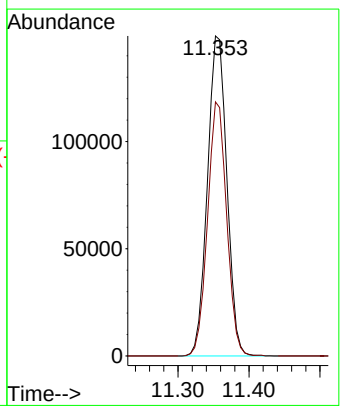


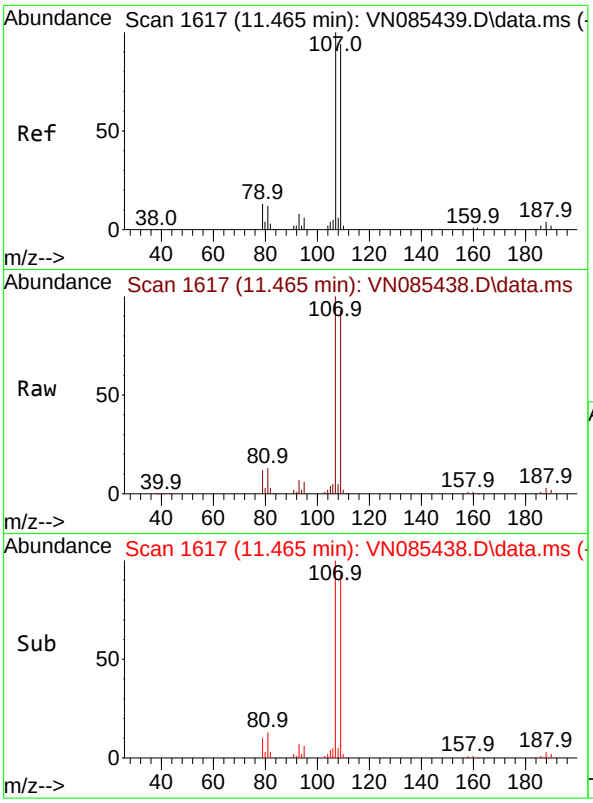


#60
Dibromochloromethane
Concen: 106.227 ug/l
RT: 11.353 min Scan# 1598
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion:129 Resp: 283361

Ion	Ratio	Lower	Upper
129	100		
127	78.1	38.6	115.8



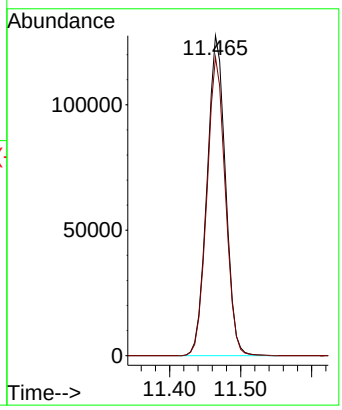


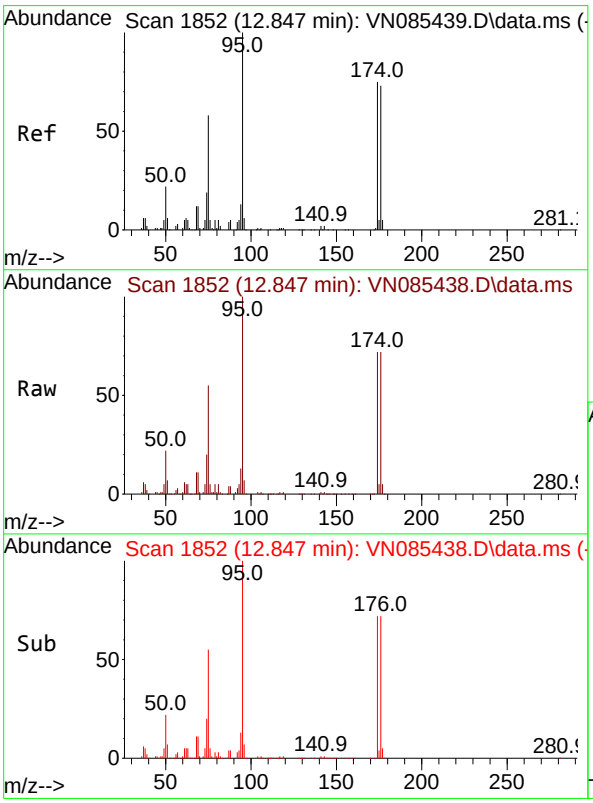
#61
1,2-Dibromoethane
Concen: 104.623 ug/l
RT: 11.465 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:107 Resp: 230104

Ion	Ratio	Lower	Upper
107	100		
109	93.1	75.9	113.9

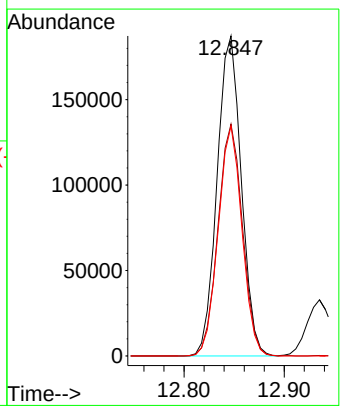


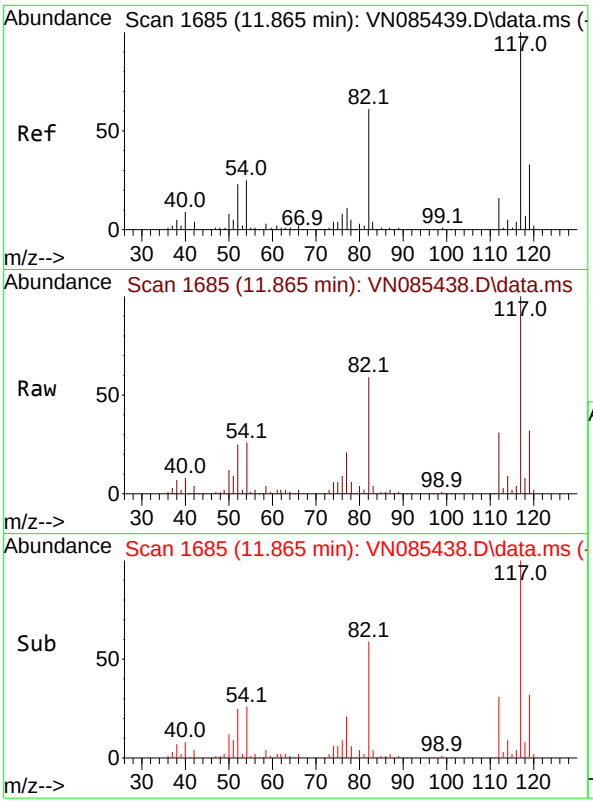


#62
4-Bromofluorobenzene
Concen: 112.765 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 95 Resp: 313161

Ion	Ratio	Lower	Upper
95	100		
174	73.4	0.0	145.0
176	70.5	0.0	142.4



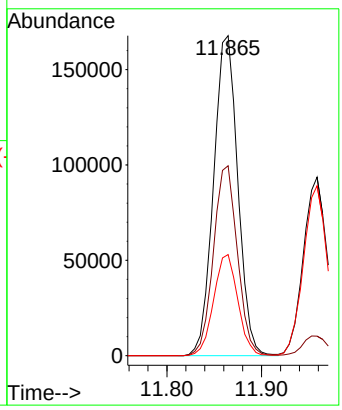


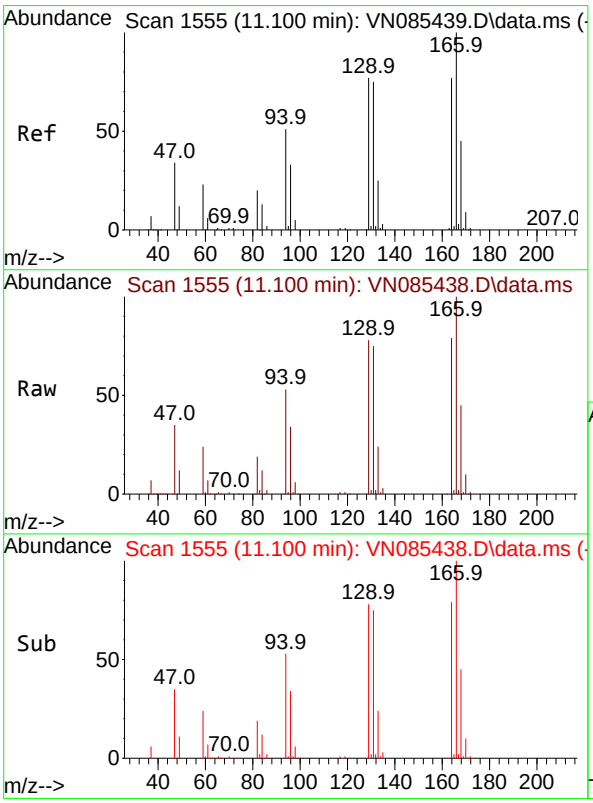
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:117 Resp: 298938

Ion	Ratio	Lower	Upper
117	100		
82	59.3	48.6	72.8
119	31.6	26.6	39.8

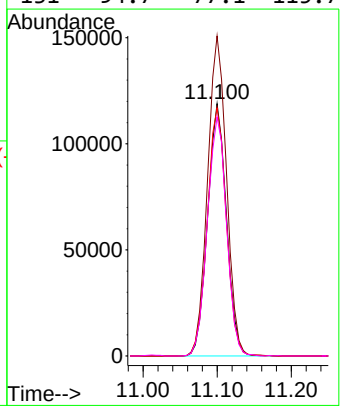


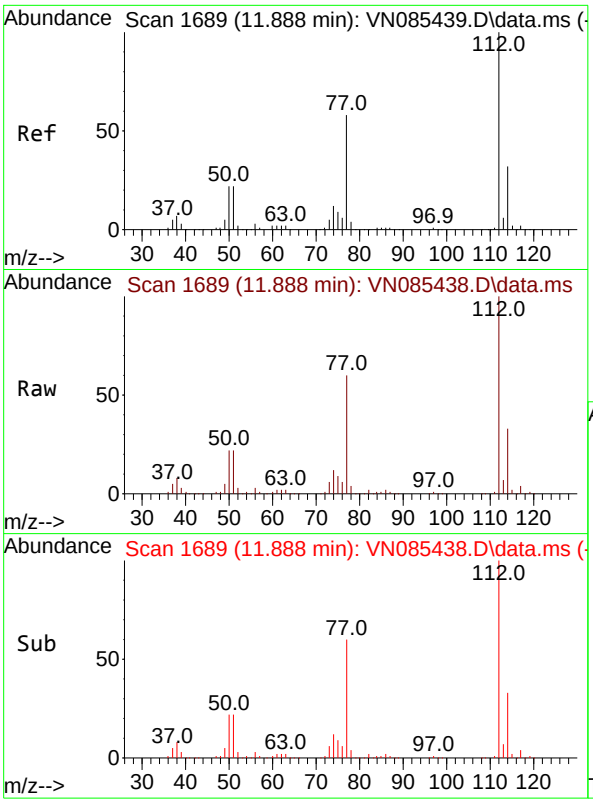


#64
Tetrachloroethene
Concen: 102.980 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion:164 Resp: 209870

Ion	Ratio	Lower	Upper
164	100		
166	126.8	103.4	155.2
129	98.3	79.2	118.8
131	94.7	77.1	115.7



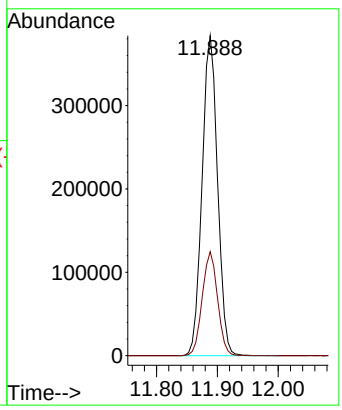


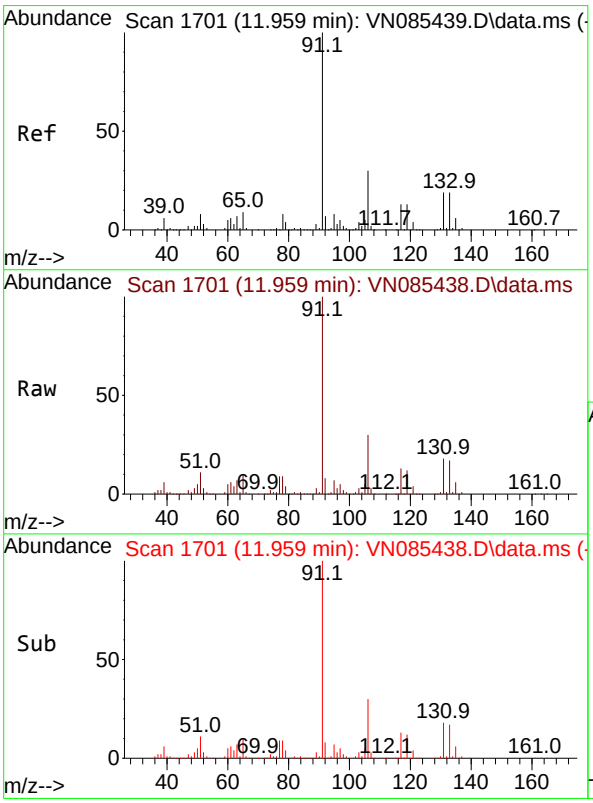
#65
Chlorobenzene
Concen: 103.482 ug/l
RT: 11.888 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:112 Resp: 677679

Ion	Ratio	Lower	Upper
112	100		
114	32.5	25.3	37.9

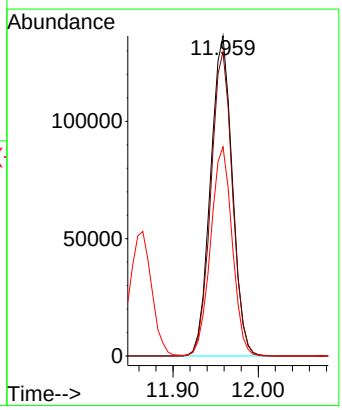


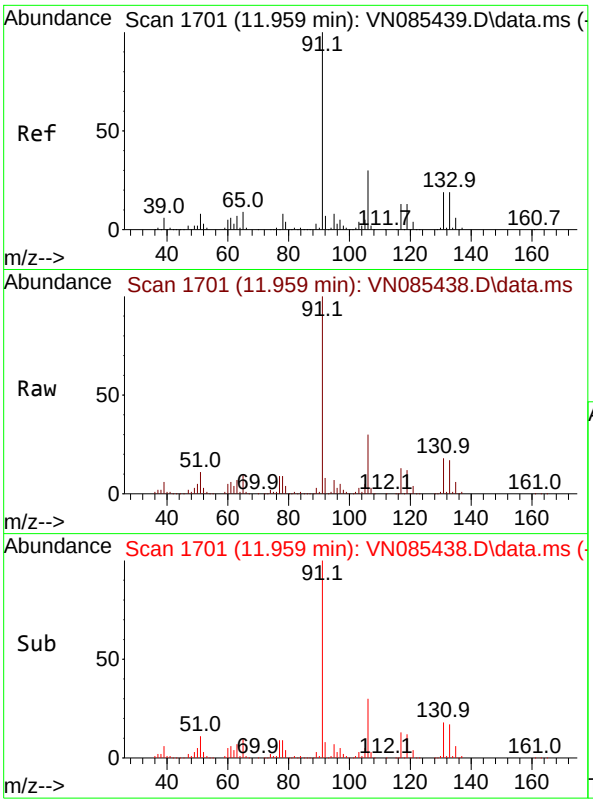


#66
1,1,1,2-Tetrachloroethane
Concen: 100.517 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion:131 Resp: 241593

Ion	Ratio	Lower	Upper
131	100		
133	94.3	47.4	142.3
119	64.9	33.1	99.5



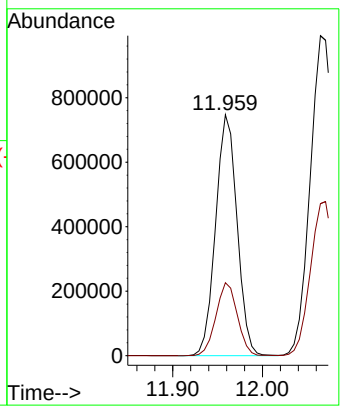


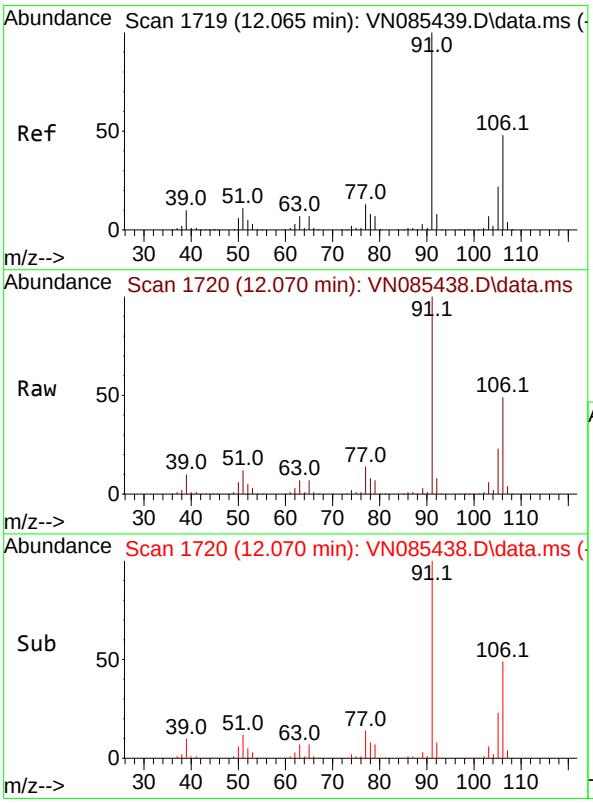
#67
Ethyl Benzene
Concen: 116.169 ug/l
RT: 11.959 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 91 Resp: 1239080

Ion	Ratio	Lower	Upper
91	100		
106	30.3	23.8	35.8

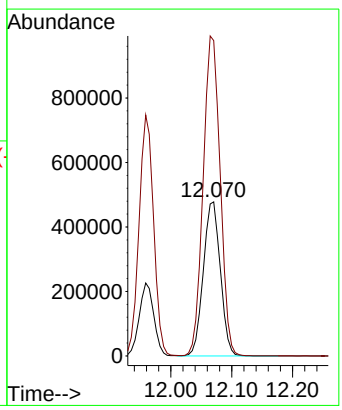


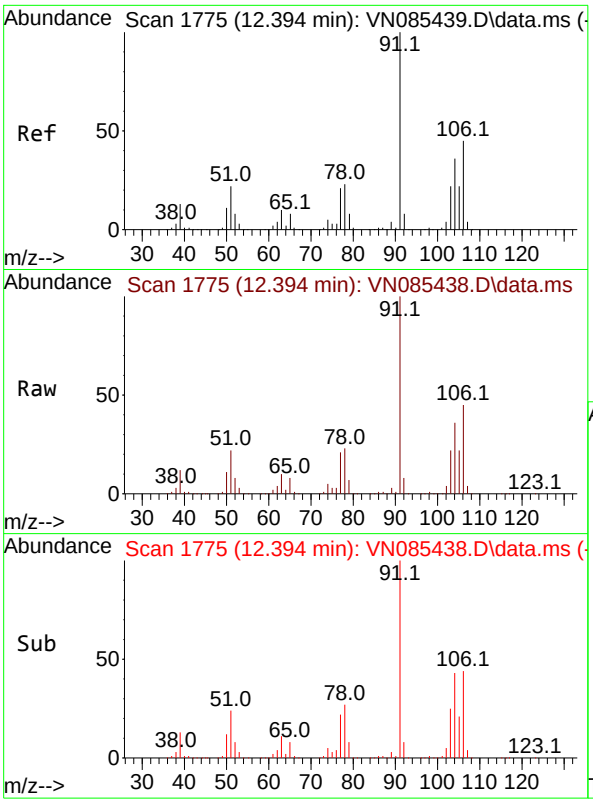


#68
m/p-Xylenes
Concen: 235.219 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. 0.006 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion:106 Resp: 927244

Ion	Ratio	Lower	Upper
106	100		
91	208.0	167.7	251.5



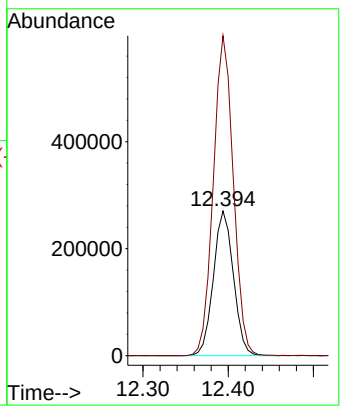


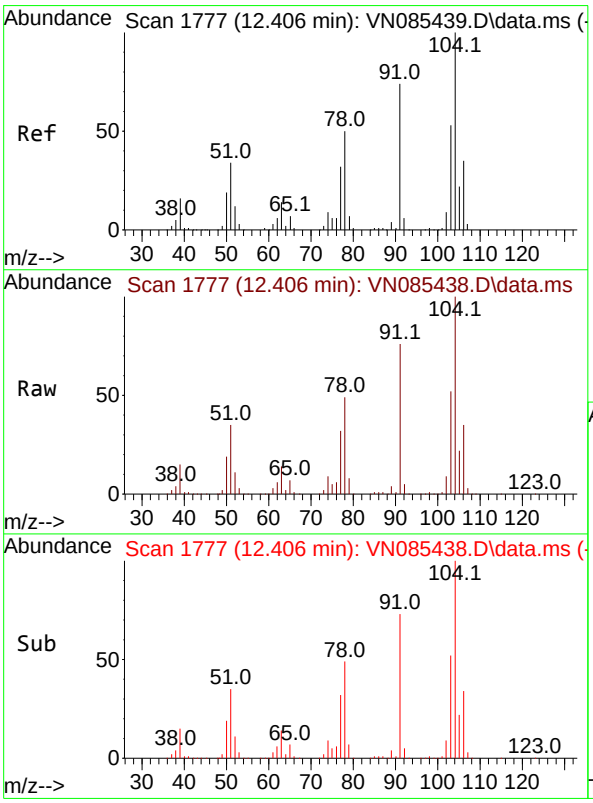
#69
o-Xylene
Concen: 117.135 ug/l
RT: 12.394 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:106 Resp: 441279

Ion	Ratio	Lower	Upper
106	100		
91	221.3	110.4	331.2

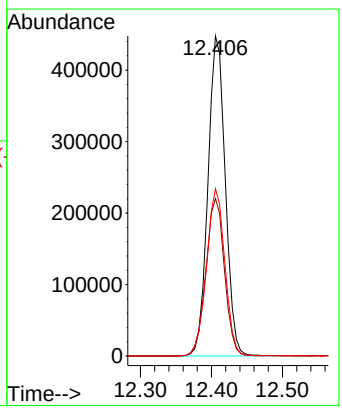


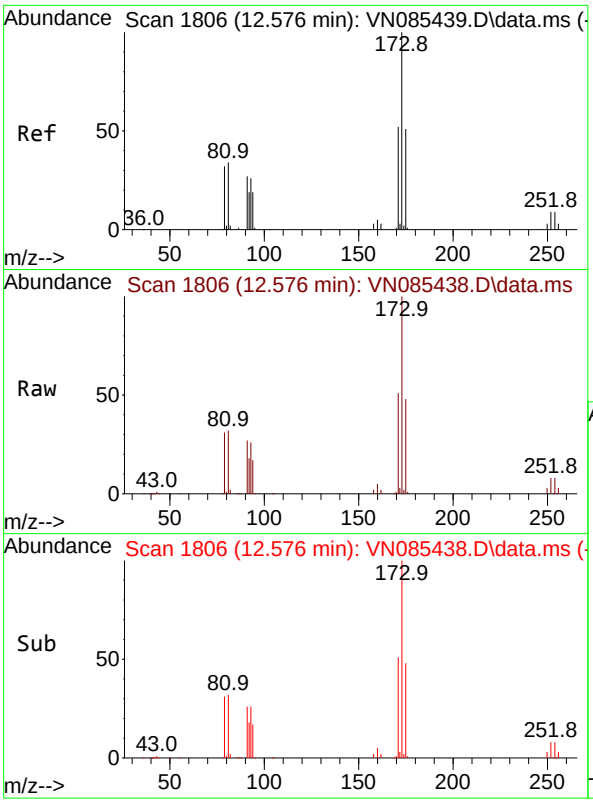


#70
Styrene
Concen: 121.919 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion:104 Resp: 760136

Ion	Ratio	Lower	Upper
104	100		
78	52.8	42.5	63.7
103	55.3	43.8	65.8



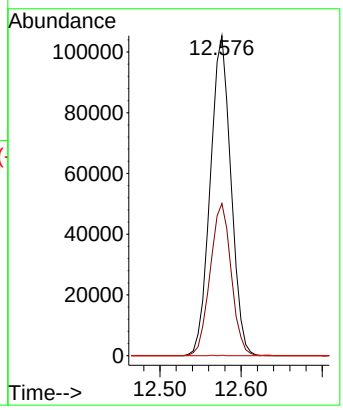


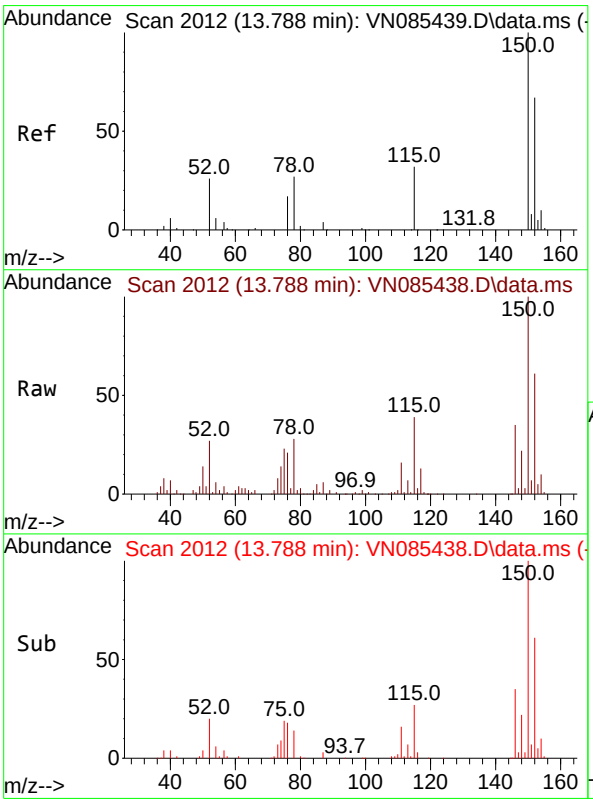
#71
Bromoform
Concen: 108.227 ug/l
RT: 12.576 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:173 Resp: 186124

Ion	Ratio	Lower	Upper
173	100		
175	48.4	24.4	73.2
254	0.1	0.0	0.0#

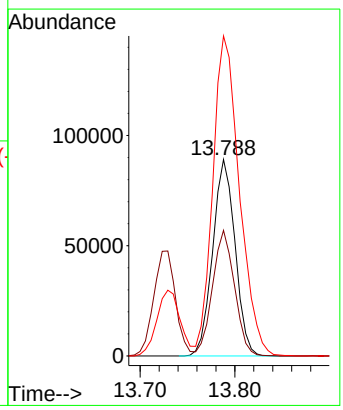


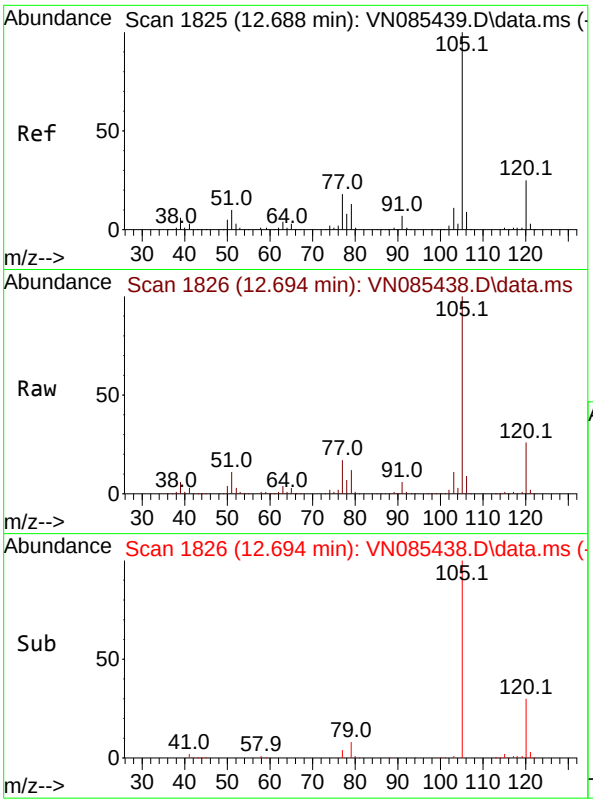


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion:152 Resp: 146196

Ion	Ratio	Lower	Upper
152	100		
115	62.7	31.1	93.3
150	193.1	0.0	343.6



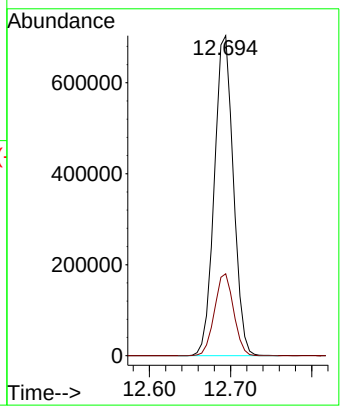


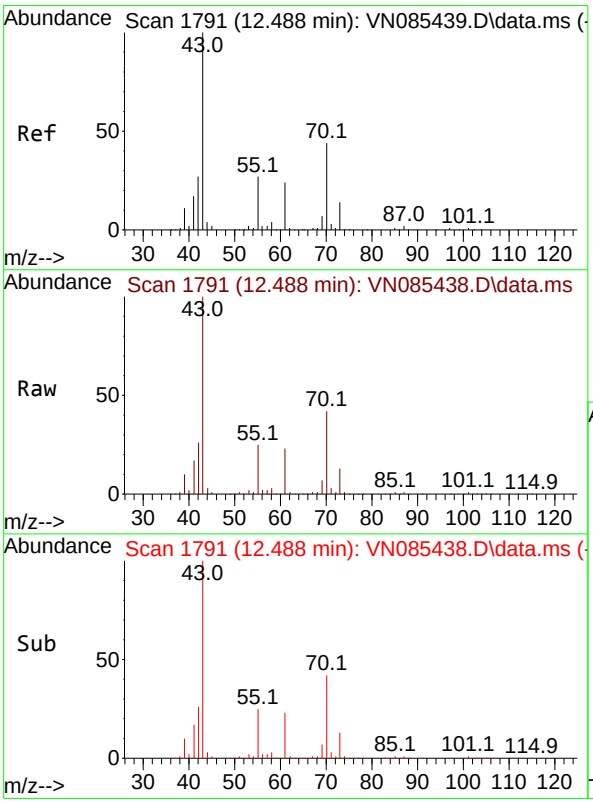
#73
Isopropylbenzene
Concen: 116.221 ug/l
RT: 12.694 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:105 Resp: 1146752

Ion	Ratio	Lower	Upper
105	100		
120	25.7	12.8	38.3

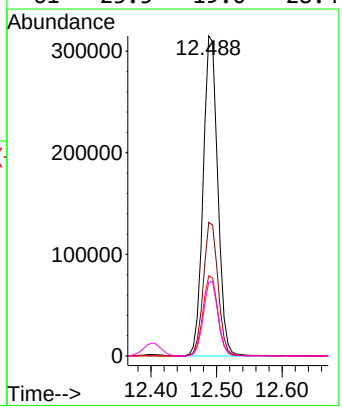


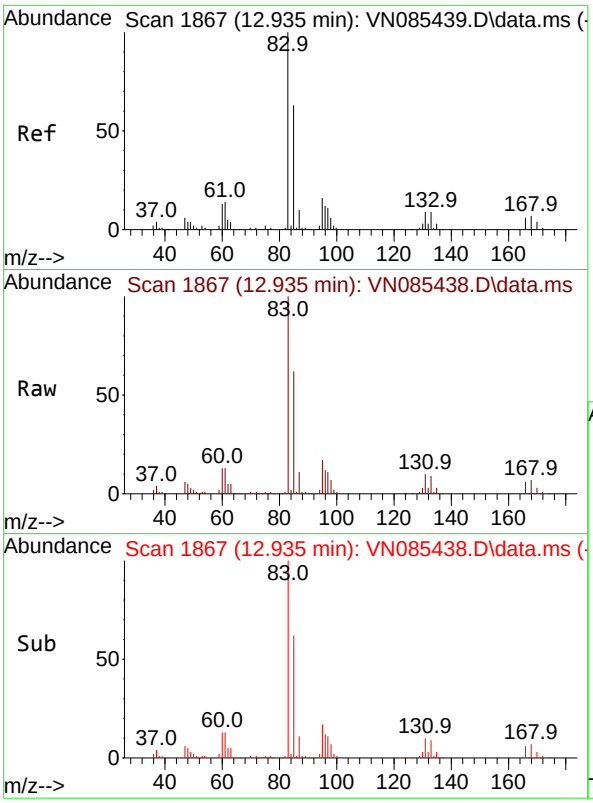


#74
N-amyl acetate
Concen: 110.308 ug/l
RT: 12.488 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 43 Resp: 489217

Ion	Ratio	Lower	Upper
43	100		
70	41.9	34.0	51.0
55	25.7	21.4	32.2
61	23.5	19.0	28.4



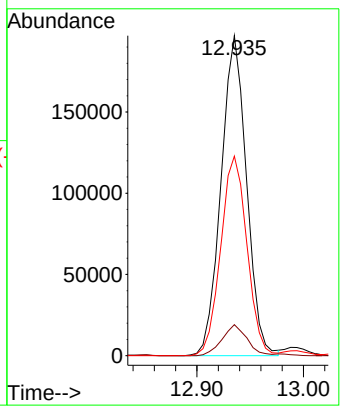


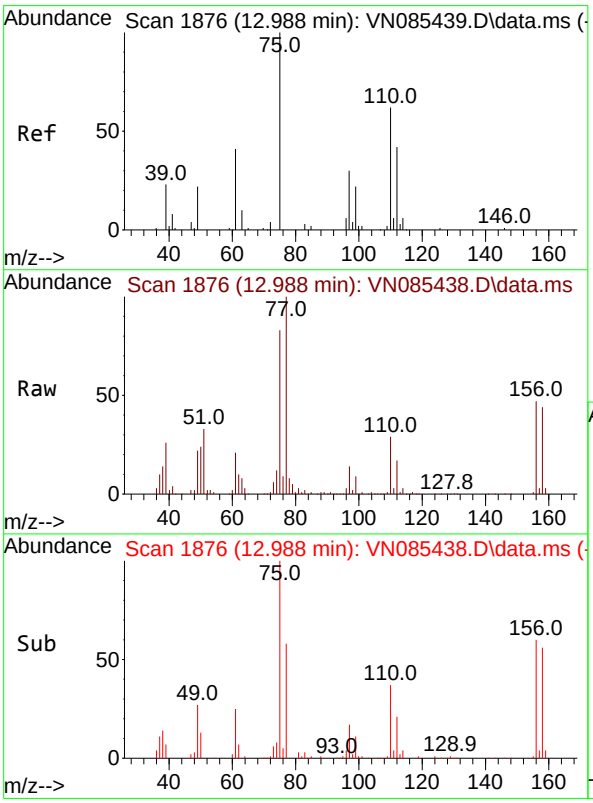
#75
1,1,2,2-Tetrachloroethane
Concen: 94.039 ug/l
RT: 12.935 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 83 Resp: 327767

Ion	Ratio	Lower	Upper
83	100		
131	9.8	4.8	14.4
85	64.1	32.2	96.6

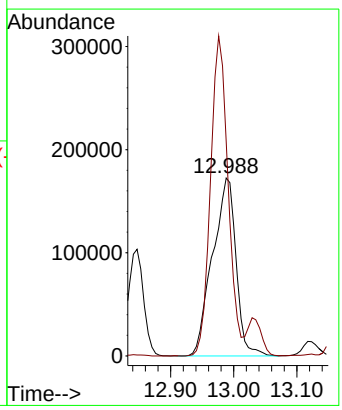


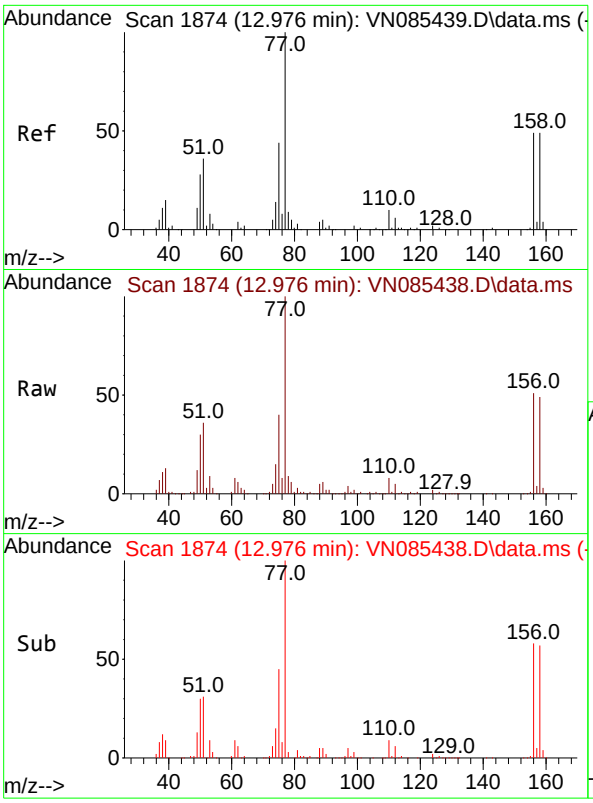


#76
1,2,3-Trichloropropane
Concen: 150.413 ug/l
RT: 12.988 min Scan# 1876
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 75 Resp: 446237

Ion	Ratio	Lower	Upper
75	100		
77	133.9	109.7	329.2



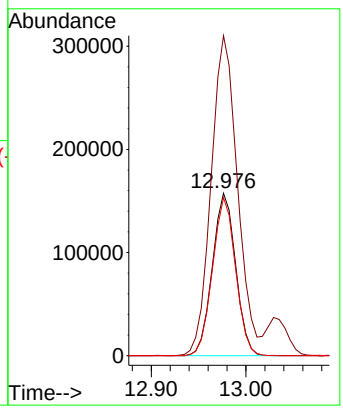


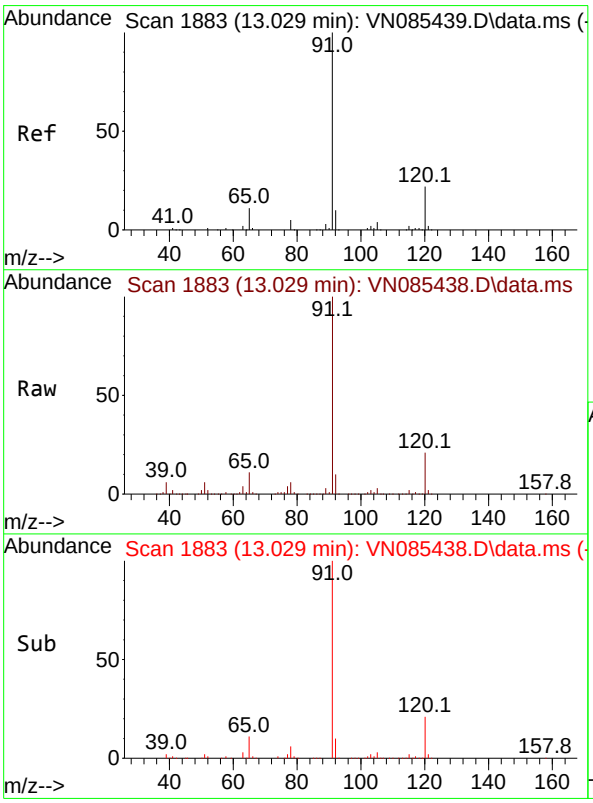
#77
Bromobenzene
Concen: 104.200 ug/l
RT: 12.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:156 Resp: 268616

Ion	Ratio	Lower	Upper
156	100		
77	222.4	114.1	342.4
158	96.3	48.9	146.8

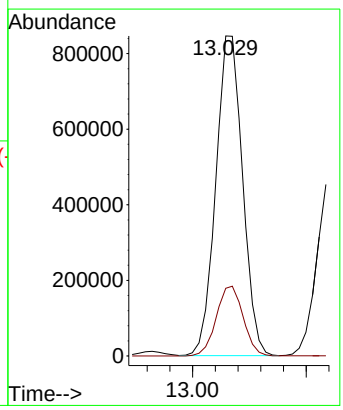


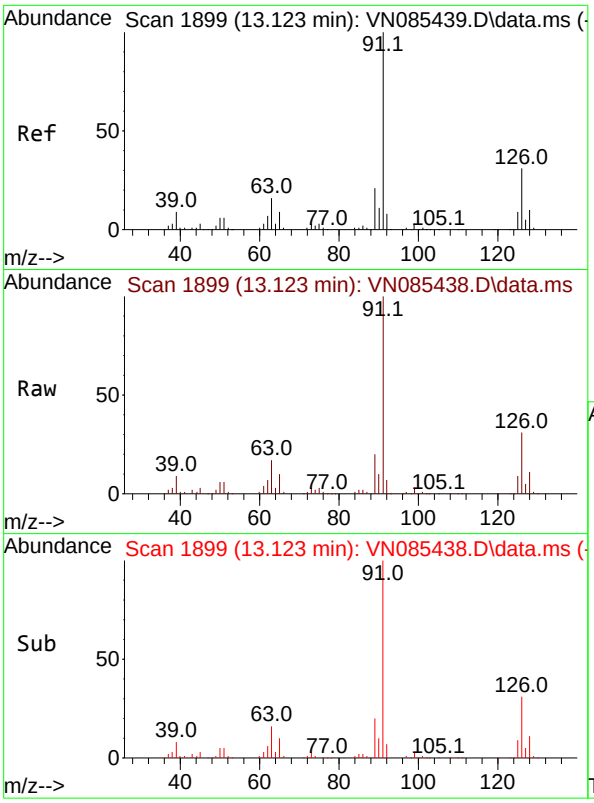


#78
n-propylbenzene
Concen: 118.600 ug/l
RT: 13.029 min Scan# 1883
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 91 Resp: 1385353

Ion	Ratio	Lower	Upper
91	100		
120	21.8	10.9	32.6



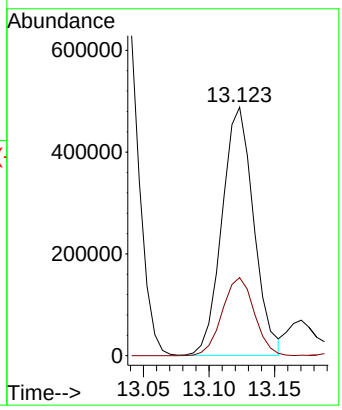


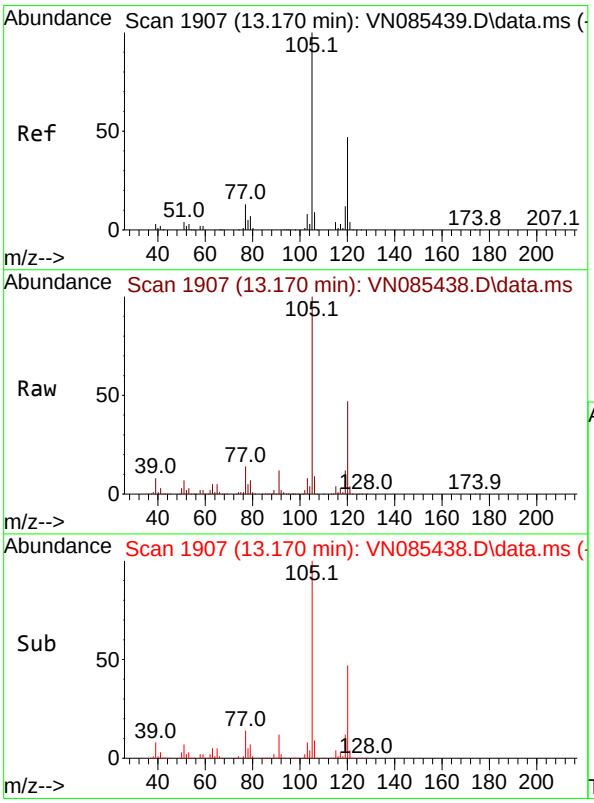
#79
2-Chlorotoluene
Concen: 108.767 ug/l
RT: 13.123 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 91 Resp: 822258

Ion	Ratio	Lower	Upper
91	100		
126	31.8	15.7	47.1

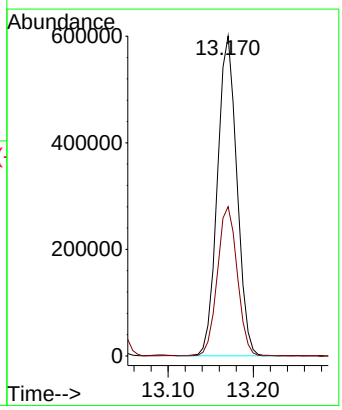


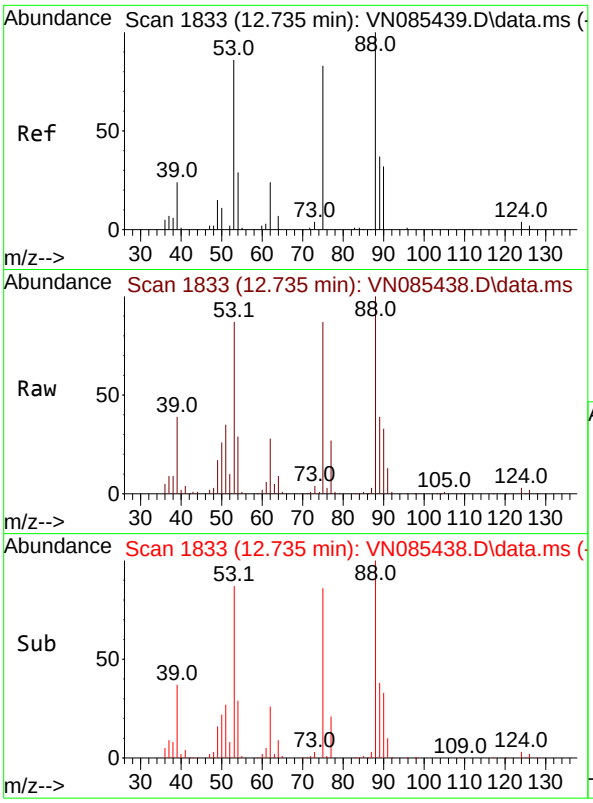


#80
1,3,5-Trimethylbenzene
Concen: 116.938 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion:105 Resp: 953066

Ion	Ratio	Lower	Upper
105	100		
120	47.8	23.9	71.7



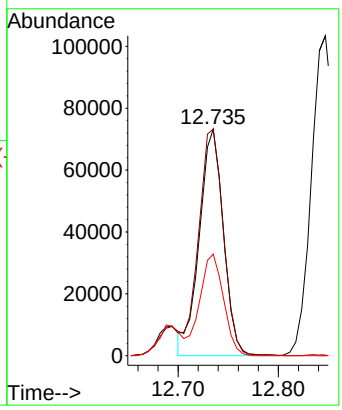


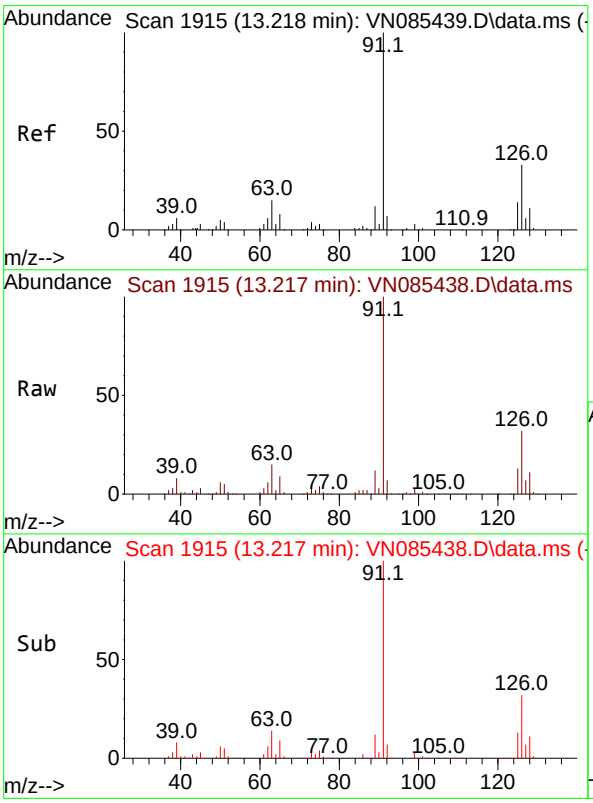
#81
trans-1,4-Dichloro-2-butene
Concen: 111.544 ug/l
RT: 12.735 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 75 Resp: 122508

Ion	Ratio	Lower	Upper
75	100		
53	100.9	95.6	143.4
89	44.4	37.0	55.6

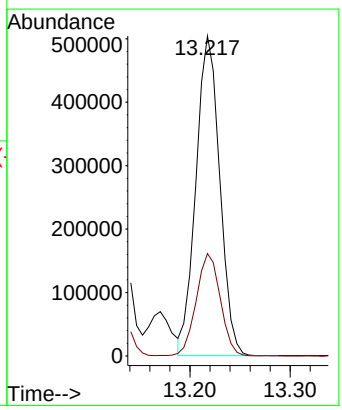


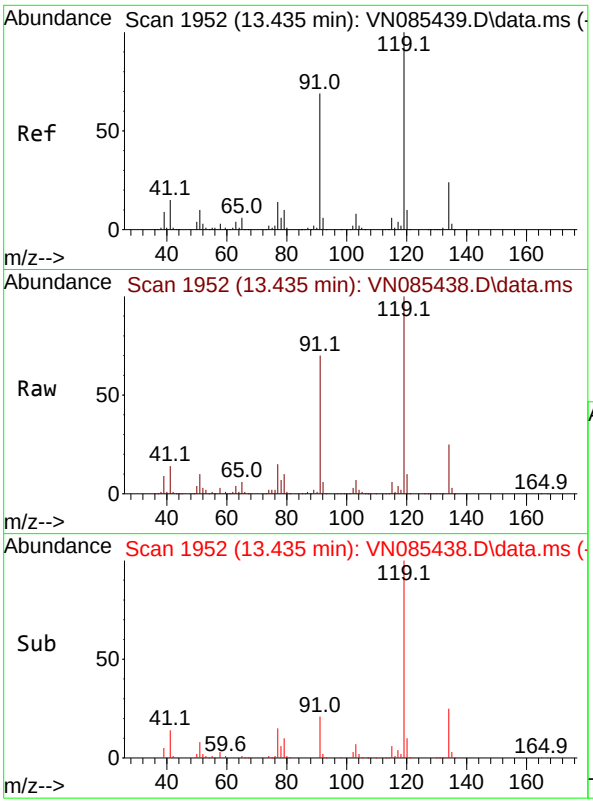


#82
4-Chlorotoluene
Concen: 110.574 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 91 Resp: 832317

Ion	Ratio	Lower	Upper
91	100		
126	32.5	15.9	47.7



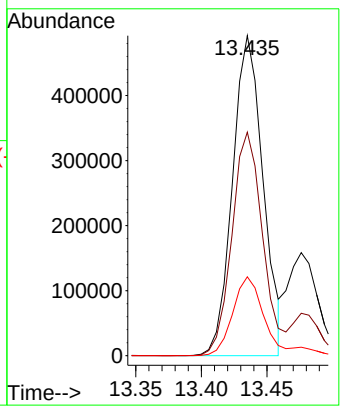


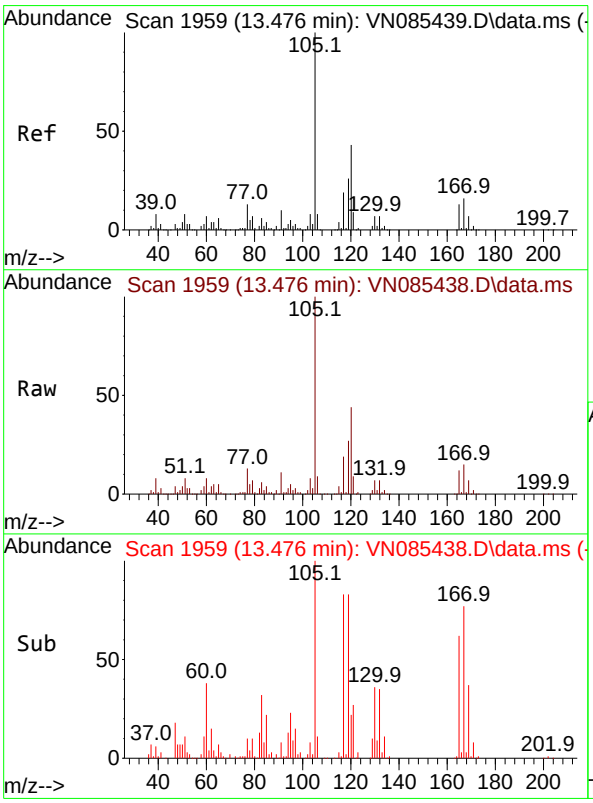
#83
tert-Butylbenzene
Concen: 116.457 ug/l
RT: 13.435 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:119 Resp: 797069

Ion	Ratio	Lower	Upper
119	100		
91	70.7	35.1	105.3
134	26.6	12.0	36.1

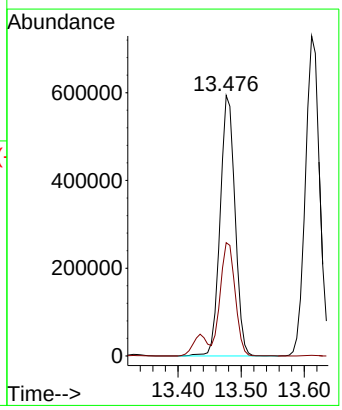


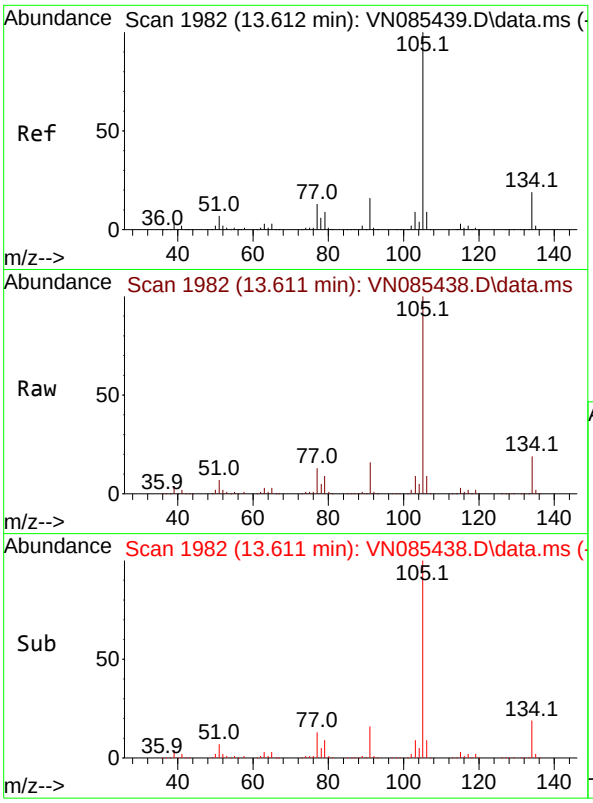


#84
1,2,4-Trimethylbenzene
Concen: 119.625 ug/l
RT: 13.476 min Scan# 1959
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion:105 Resp: 971729

Ion	Ratio	Lower	Upper
105	100		
120	43.4	21.6	65.0



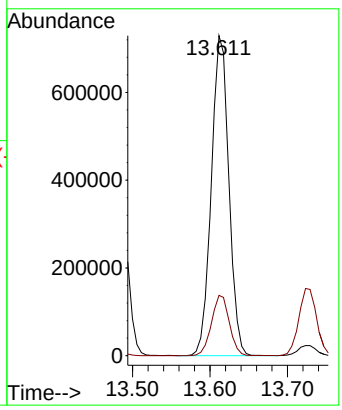


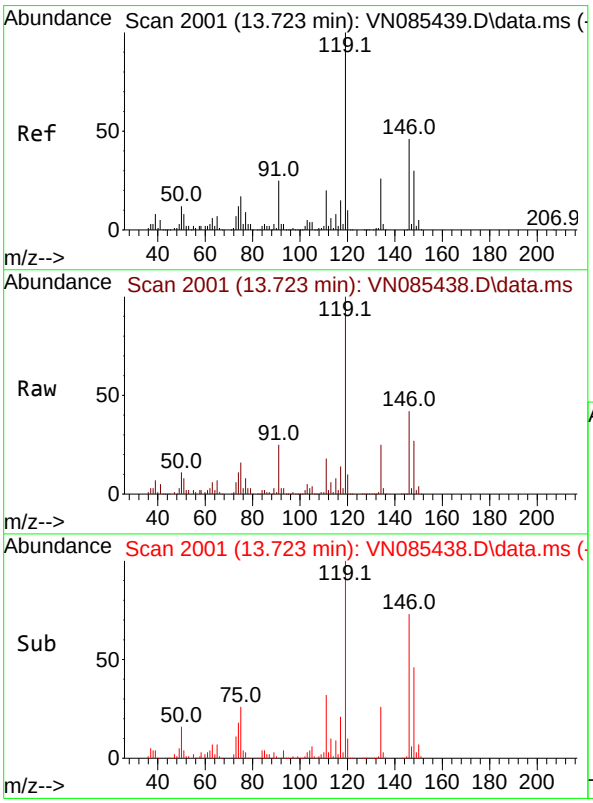
#85
sec-Butylbenzene
Concen: 120.587 ug/l
RT: 13.611 min Scan# 1
Delta R.T. -0.001 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:105 Resp: 1143885

Ion	Ratio	Lower	Upper
105	100		
134	19.2	9.7	28.9

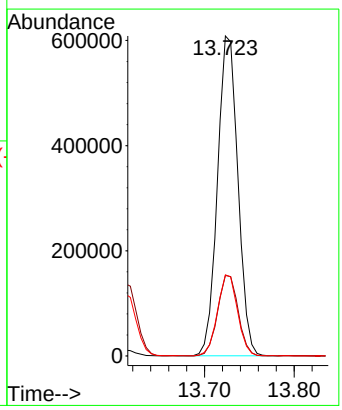


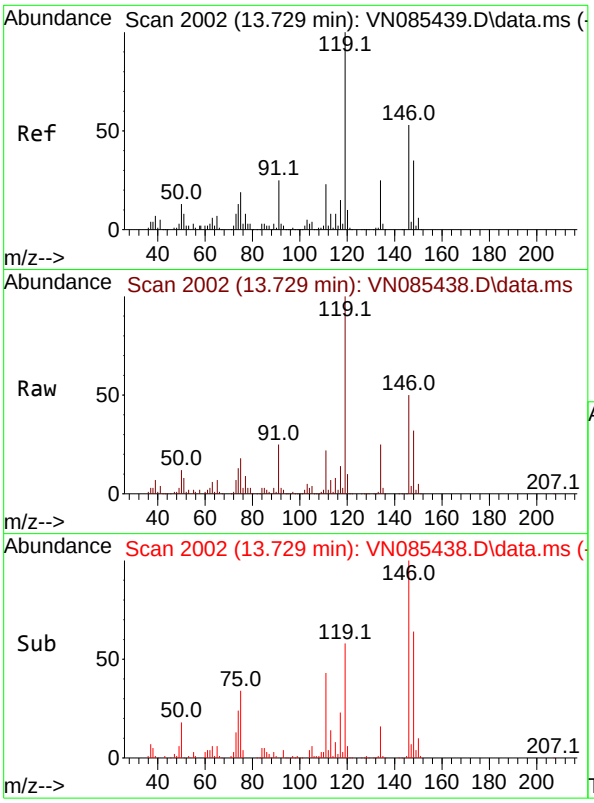


#86
p-Isopropyltoluene
Concen: 100.111 ug/l
RT: 13.723 min Scan# 2001
Delta R.T. 0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion:119 Resp: 960747

Ion	Ratio	Lower	Upper
119	100		
134	25.3	12.7	38.0
91	25.0	12.7	38.1



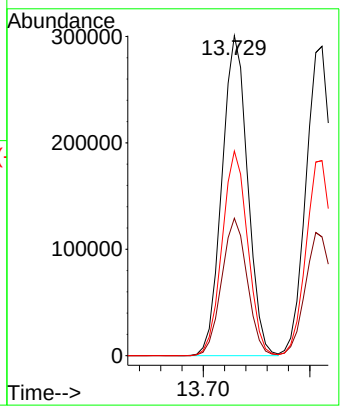


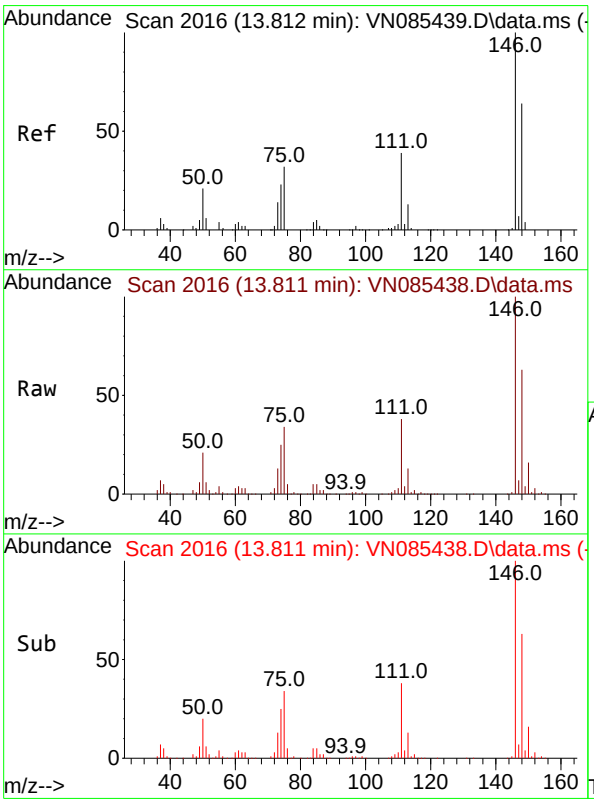
#87
1,3-Dichlorobenzene
Concen: 105.943 ug/l
RT: 13.729 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:146 Resp: 502960

Ion	Ratio	Lower	Upper
146	100		
111	42.8	21.4	64.3
148	63.6	32.3	96.9

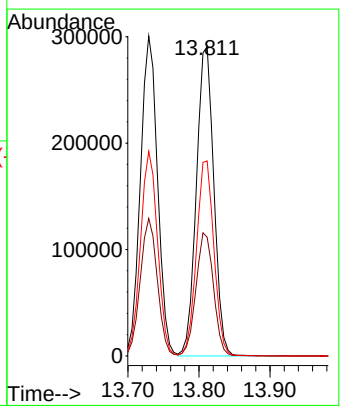


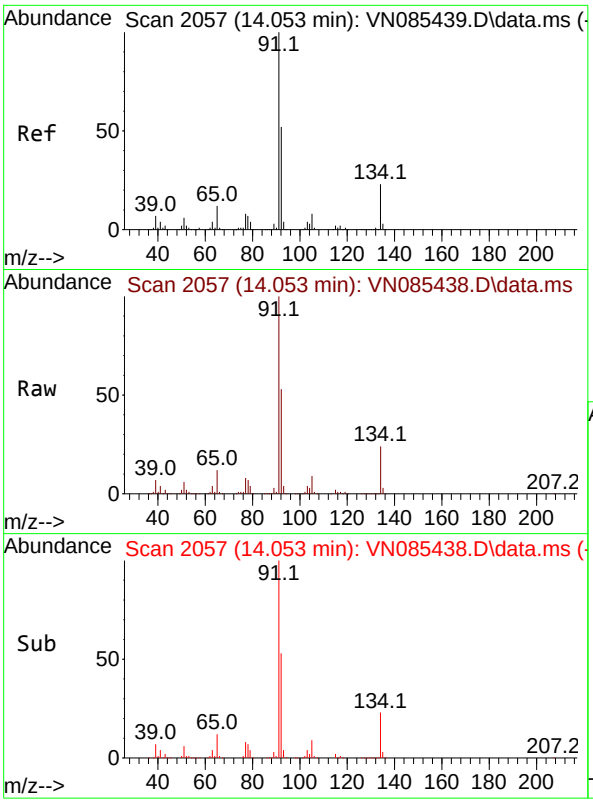


#88
1,4-Dichlorobenzene
Concen: 101.341 ug/l
RT: 13.811 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion:146 Resp: 498709

Ion	Ratio	Lower	Upper
146	100		
111	40.1	21.3	63.7
148	63.1	32.4	97.0



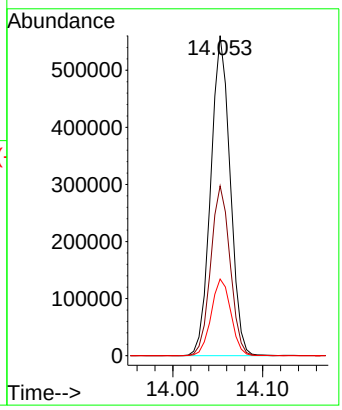


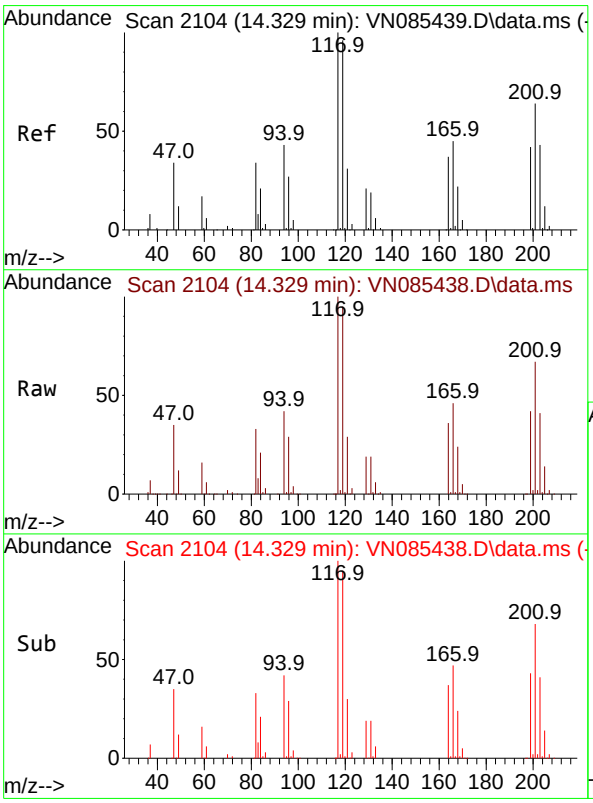
#89
n-Butylbenzene
Concen: 123.781 ug/l
RT: 14.053 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 91 Resp: 842368

Ion	Ratio	Lower	Upper
91	100		
92	52.8	25.8	77.3
134	24.3	11.7	35.1

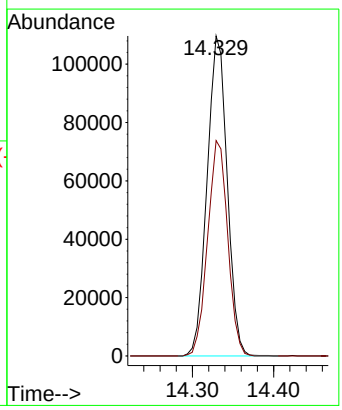


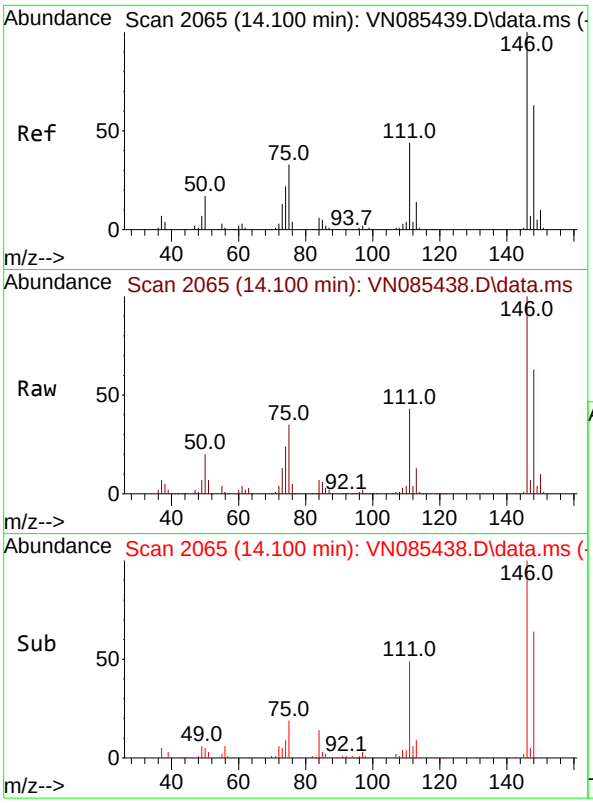


#90
Hexachloroethane
Concen: 104.405 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion:117 Resp: 188541

Ion	Ratio	Lower	Upper
117	100		
201	67.2	33.7	101.0



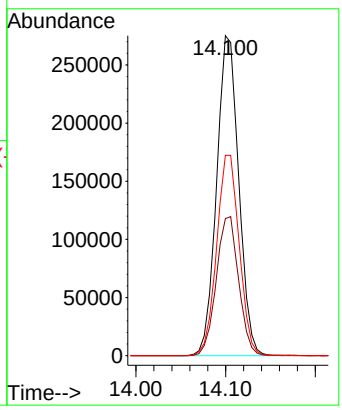


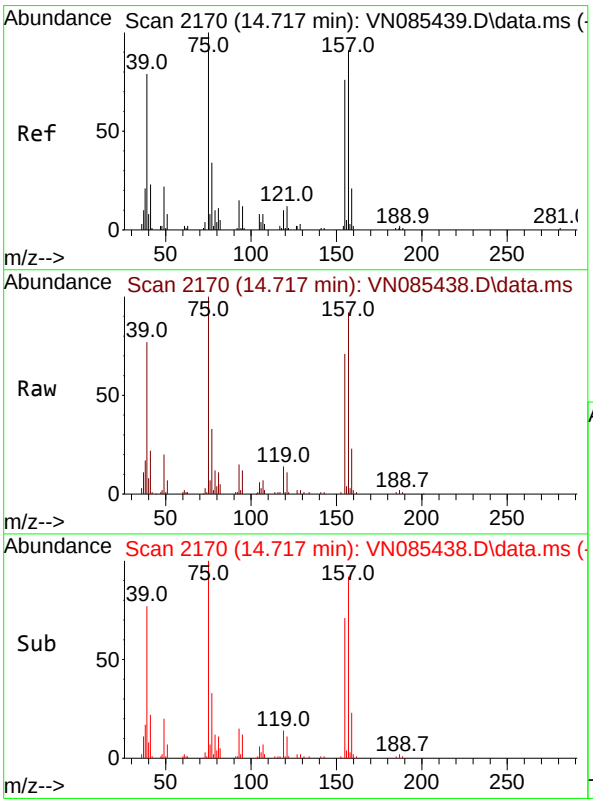
#91
1,2-Dichlorobenzene
Concen: 99.445 ug/l
RT: 14.100 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:146 Resp: 470919

Ion	Ratio	Lower	Upper
146	100		
111	43.9	21.7	65.1
148	64.0	31.4	94.2

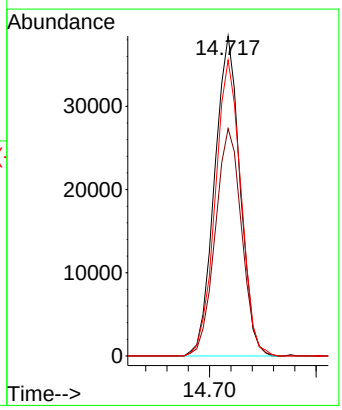


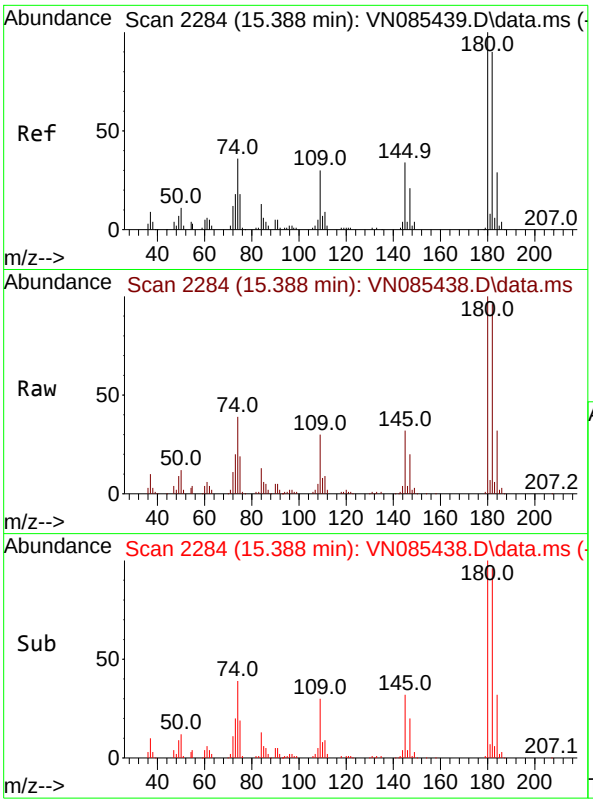


#92
1,2-Dibromo-3-Chloropropane
Concen: 100.313 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 75 Resp: 63846

Ion	Ratio	Lower	Upper
75	100		
155	73.5	36.4	109.2
157	93.0	45.4	136.1



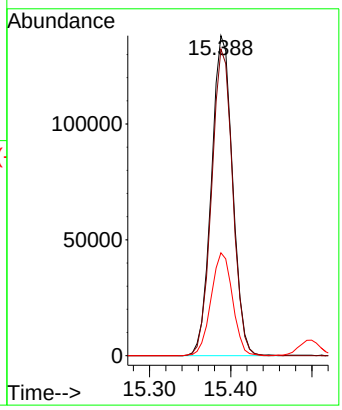


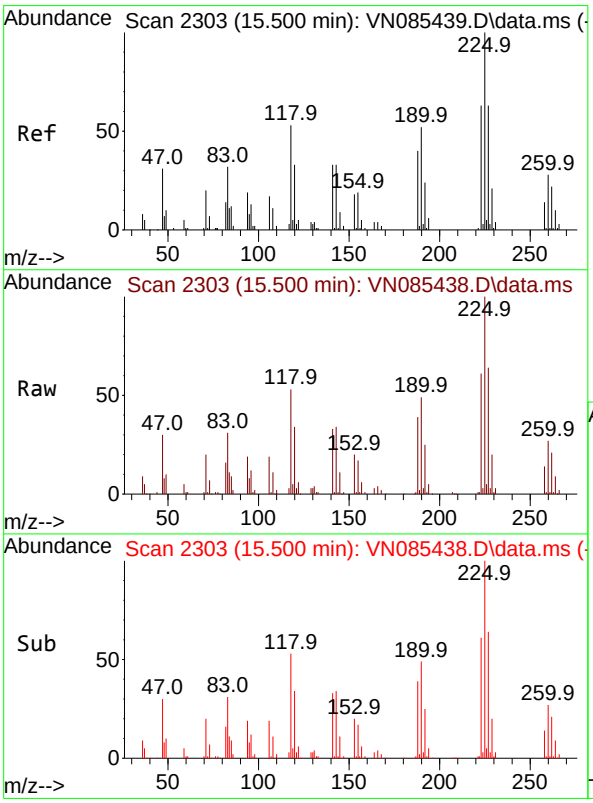
#93
1,2,4-Trichlorobenzene
Concen: 113.946 ug/l
RT: 15.388 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:180 Resp: 250787

Ion	Ratio	Lower	Upper
180	100		
182	94.9	46.8	140.3
145	32.6	16.0	48.0

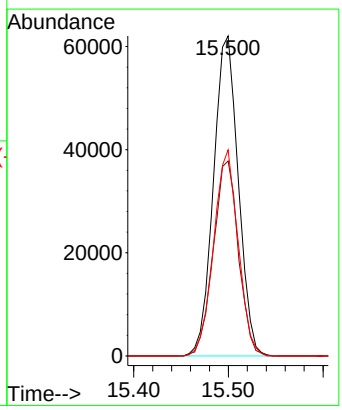


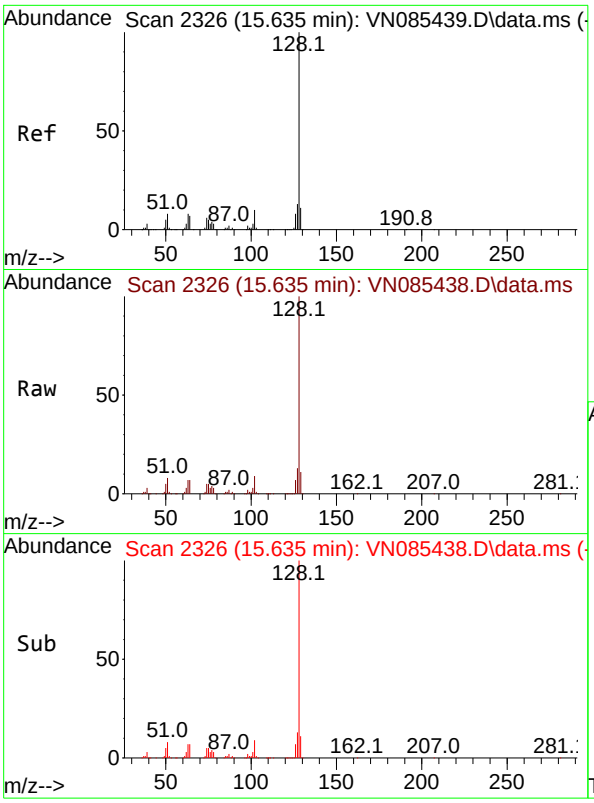


#94
Hexachlorobutadiene
Concen: 96.619 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion:225 Resp: 112899

Ion	Ratio	Lower	Upper
225	100		
223	61.8	30.7	92.1
227	63.6	30.9	92.5



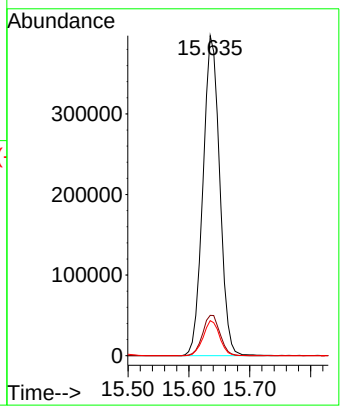


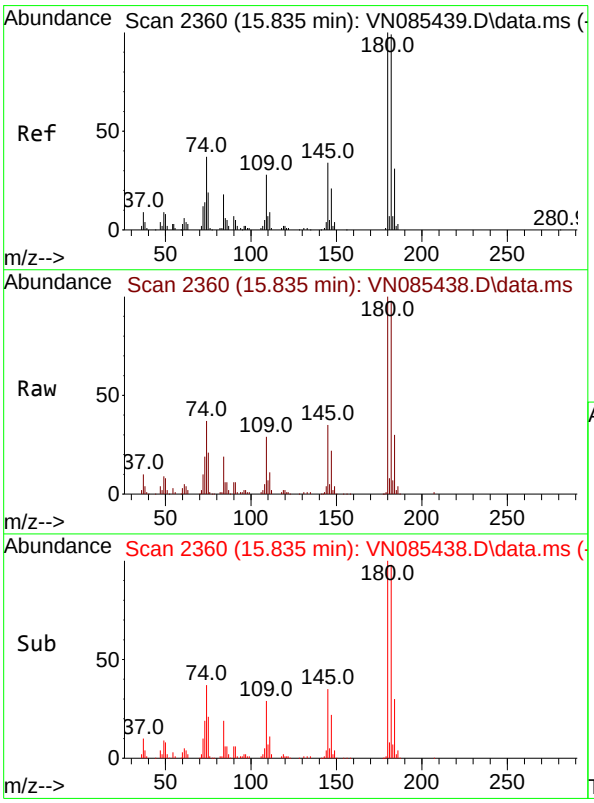
#95
Naphthalene
Concen: 115.234 ug/l
RT: 15.635 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:128 Resp: 756816

Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.6	16.0
129	10.8	8.8	13.2

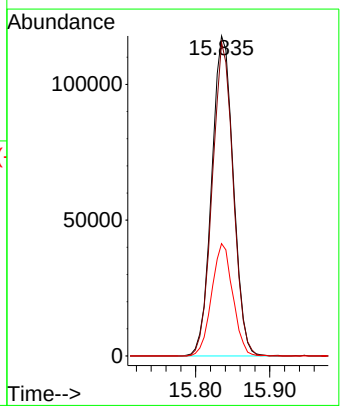




#96
1,2,3-Trichlorobenzene
Concen: 107.256 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion:180 Resp: 238860

Ion	Ratio	Lower	Upper
180	100		
182	95.0	47.4	142.2
145	34.3	16.9	50.7



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085439.D
Acq On : 14 Jan 2025 15:19
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Quant Time: Jan 15 01:42:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.218	168	199403	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	339872	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	297366	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	146624	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	165768	51.500	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 103.000%			
35) Dibromofluoromethane	8.159	113	121554	51.552	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.100%			
50) Toluene-d8	10.565	98	430698	51.411	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.820%			
62) 4-Bromofluorobenzene	12.847	95	152568	53.239	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 106.480%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	125504	46.486	ug/l	100
3) Chloromethane	2.359	50	135631	46.398	ug/l	100
4) Vinyl Chloride	2.512	62	136831	46.569	ug/l	100
5) Bromomethane	2.953	94	83199	46.877	ug/l	100
6) Chloroethane	3.118	64	84517	45.371	ug/l	100
7) Trichlorofluoromethane	3.501	101	198726	46.613	ug/l	100
8) Diethyl Ether	3.953	74	71764	48.726	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.371	101	108081	45.010	ug/l	100
10) Methyl Iodide	4.589	142	143383	52.142	ug/l	100
11) Tert butyl alcohol	5.512	59	92841	251.894	ug/l	100
12) 1,1-Dichloroethene	4.342	96	106247	49.647	ug/l	100
13) Acrolein	4.171	56	139234	276.734	ug/l	100
14) Allyl chloride	5.018	41	168654	48.567	ug/l	100
15) Acrylonitrile	5.712	53	296781	253.507	ug/l	100
16) Acetone	4.418	43	251271	241.603	ug/l	100
17) Carbon Disulfide	4.706	76	294604	44.710	ug/l	100
18) Methyl Acetate	5.018	43	157485	49.798	ug/l	100
19) Methyl tert-butyl Ether	5.789	73	373561	53.758	ug/l	100
20) Methylene Chloride	5.271	84	125508	48.748	ug/l	100
21) trans-1,2-Dichloroethene	5.783	96	110684	48.395	ug/l	100
22) Diisopropyl ether	6.665	45	406253	52.707	ug/l	100
23) Vinyl Acetate	6.594	43	1491031	275.471	ug/l	100
24) 1,1-Dichloroethane	6.565	63	233336	49.648	ug/l	100
25) 2-Butanone	7.477	43	388457	253.815	ug/l	100
26) 2,2-Dichloropropane	7.483	77	186591	49.106	ug/l	100
27) cis-1,2-Dichloroethene	7.483	96	136229	50.571	ug/l	100
28) Bromochloromethane	7.806	49	108148	49.461	ug/l	100
29) Tetrahydrofuran	7.830	42	259683	267.624	ug/l	100
30) Chloroform	7.959	83	234271	48.229	ug/l	100
31) Cyclohexane	8.253	56	175588	42.984	ug/l	100
32) 1,1,1-Trichloroethane	8.165	97	202590	47.547	ug/l	100
36) 1,1-Dichloropropene	8.365	75	157031	47.453	ug/l	100
37) Ethyl Acetate	7.553	43	165866	49.658	ug/l	100
38) Carbon Tetrachloride	8.359	117	180199	47.564	ug/l	100
39) Methylcyclohexane	9.600	83	157234	50.562	ug/l	100
40) Benzene	8.600	78	492606	49.542	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085439.D
Acq On : 14 Jan 2025 15:19
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Quant Time: Jan 15 01:42:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	7.771	41	91711	52.775 ug/l		100
42) 1,2-Dichloroethane	8.665	62	186065	49.685 ug/l		100
43) Isopropyl Acetate	8.683	43	276228	51.611 ug/l		100
44) Trichloroethene	9.347	130	109953	47.506 ug/l		100
45) 1,2-Dichloropropane	9.618	63	126084	49.644 ug/l		100
46) Dibromomethane	9.706	93	90670	49.476 ug/l		100
47) Bromodichloromethane	9.882	83	189915	50.867 ug/l		100
48) Methyl methacrylate	9.677	41	133399	55.385 ug/l		100
49) 1,4-Dioxane	9.688	88	43048	1061.334 ug/l		100
51) 4-Methyl-2-Pentanone	10.441	43	836707	269.403 ug/l		100
52) Toluene	10.624	92	295792	51.341 ug/l		100
53) t-1,3-Dichloropropene	10.835	75	187439	53.125 ug/l		100
54) cis-1,3-Dichloropropene	10.306	75	199771	53.006 ug/l		100
55) 1,1,2-Trichloroethane	11.012	97	115462	50.641 ug/l		100
56) Ethyl methacrylate	10.871	69	184775	48.182 ug/l		100
57) 1,3-Dichloropropane	11.159	76	204590	51.606 ug/l		100
58) 2-Chloroethyl Vinyl ether	10.159	63	409594	283.088 ug/l		100
59) 2-Hexanone	11.188	43	606740	277.643 ug/l		100
60) Dibromochloromethane	11.353	129	140704	51.116 ug/l		100
61) 1,2-Dibromoethane	11.465	107	113541	50.028 ug/l		100
64) Tetrachloroethene	11.100	164	95879	47.295 ug/l		100
65) Chlorobenzene	11.888	112	319992	49.121 ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.959	131	116488	48.722 ug/l		100
67) Ethyl Benzene	11.959	91	555322	52.339 ug/l		100
68) m/p-Xylenes	12.065	106	420702	107.286 ug/l		100
69) o-Xylene	12.394	106	202597	54.062 ug/l		100
70) Styrene	12.406	104	348720	56.227 ug/l		100
71) Bromoform	12.576	173	92366	53.993 ug/l	#	100
73) Isopropylbenzene	12.688	105	505619	51.094 ug/l		100
74) N-amyl acetate	12.488	43	237870	53.478 ug/l		100
75) 1,1,2,2-Tetrachloroethane	12.935	83	167856	48.019 ug/l		100
76) 1,2,3-Trichloropropane	12.988	75	219507	73.773 ug/l		45
77) Bromobenzene	12.976	156	125800	48.657 ug/l		100
78) n-propylbenzene	13.029	91	609022	51.986 ug/l		100
79) 2-Chlorotoluene	13.123	91	378981	49.985 ug/l		100
80) 1,3,5-Trimethylbenzene	13.170	105	431021	52.730 ug/l		100
81) trans-1,4-Dichloro-2-b...	12.735	75	57184	51.914 ug/l		100
82) 4-Chlorotoluene	13.218	91	379524	50.273 ug/l		100
83) tert-Butylbenzene	13.435	119	357563	52.090 ug/l		100
84) 1,2,4-Trimethylbenzene	13.476	105	442175	54.275 ug/l		100
85) sec-Butylbenzene	13.612	105	501561	52.719 ug/l		100
86) p-Isopropyltoluene	13.723	119	421052	49.240 ug/l		100
87) 1,3-Dichlorobenzene	13.729	146	229518	48.204 ug/l		100
88) 1,4-Dichlorobenzene	13.812	146	229084	46.416 ug/l		100
89) n-Butylbenzene	14.053	91	364111	53.348 ug/l		100
90) Hexachloroethane	14.329	117	84602	46.712 ug/l		100
91) 1,2-Dichlorobenzene	14.100	146	228024	48.012 ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	32536	50.971 ug/l		100
93) 1,2,4-Trichlorobenzene	15.388	180	114468	51.857 ug/l		100
94) Hexachlorobutadiene	15.500	225	53846	45.947 ug/l		100
95) Naphthalene	15.635	128	363882	55.243 ug/l		100
96) 1,2,3-Trichlorobenzene	15.835	180	115251	51.601 ug/l		100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085439.D
Acq On : 14 Jan 2025 15:19
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Quant Time: Jan 15 01:42:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration

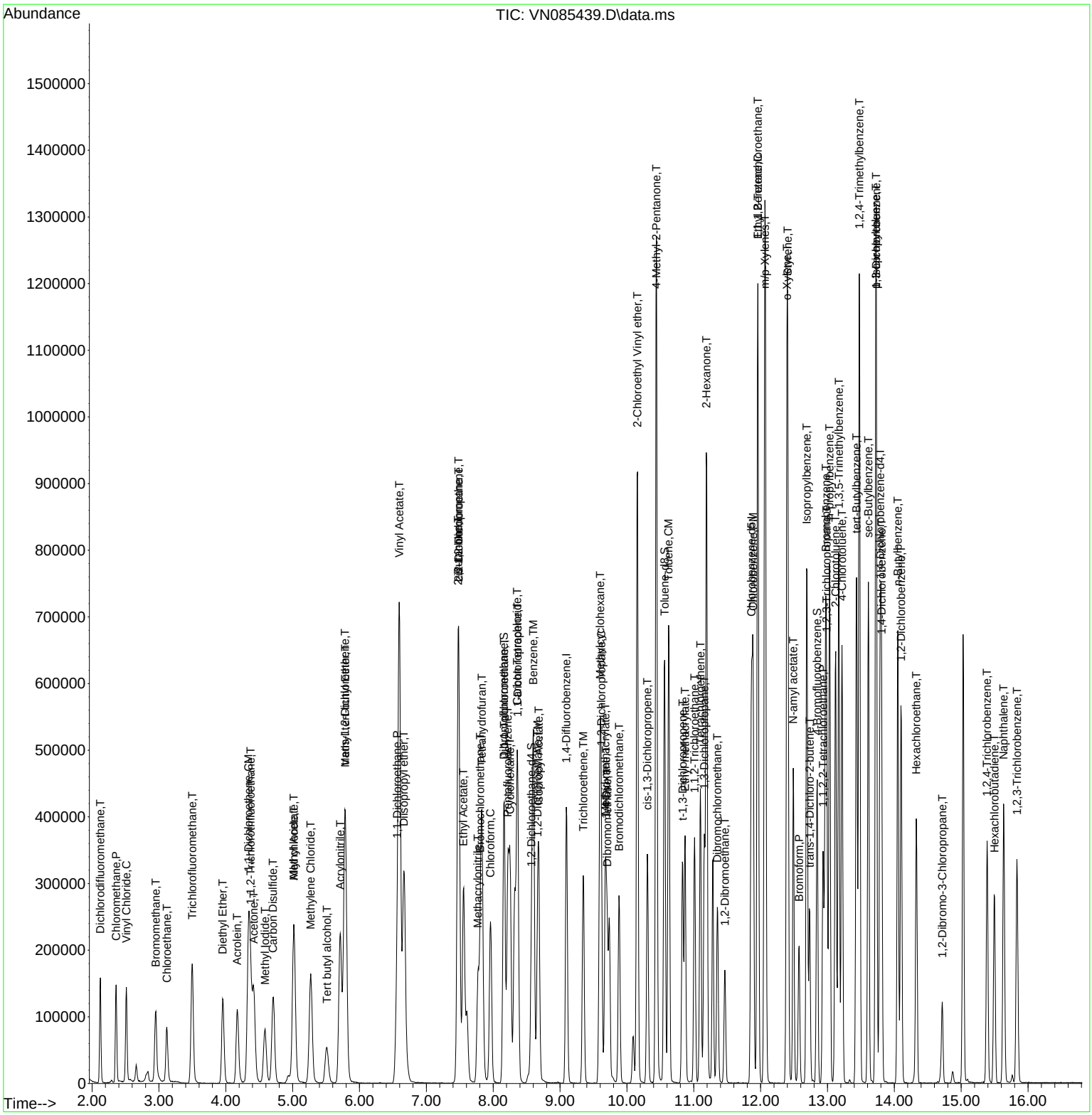
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

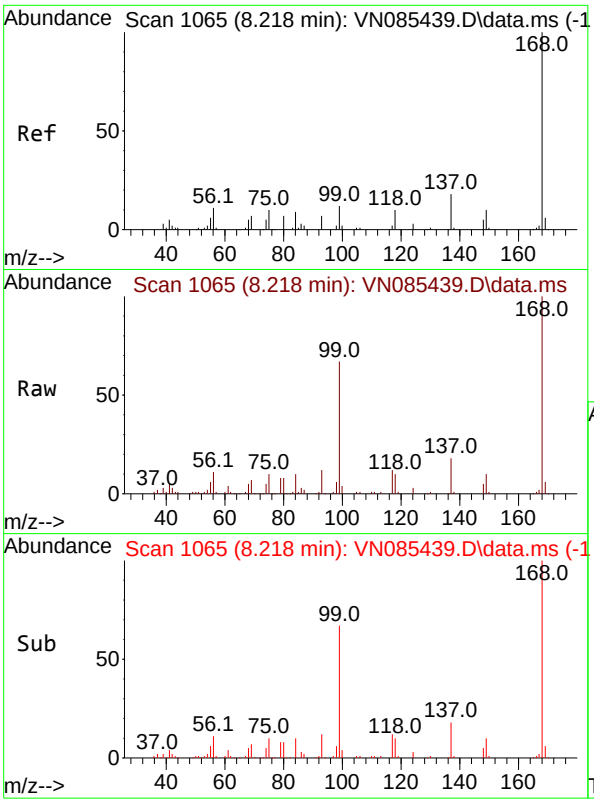
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085439.D
Acq On : 14 Jan 2025 15:19
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Quant Time: Jan 15 01:42:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration



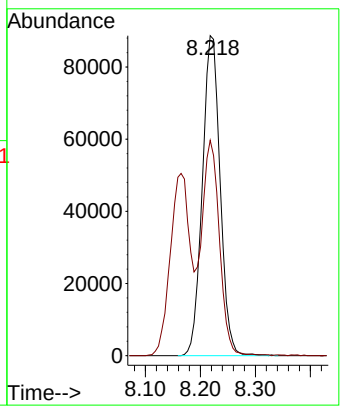


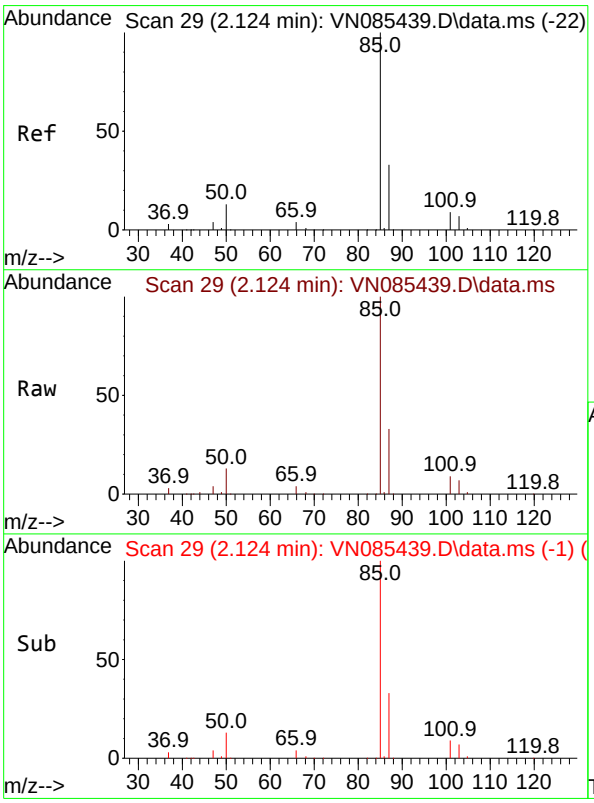
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion:168 Resp: 199403

Ion	Ratio	Lower	Upper
168	100		
99	67.0	53.6	80.4

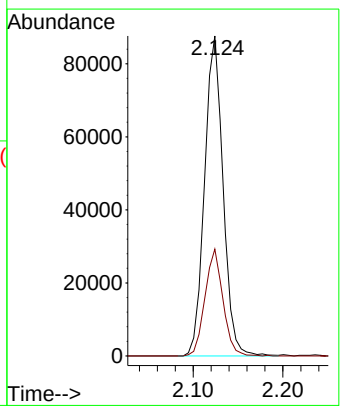


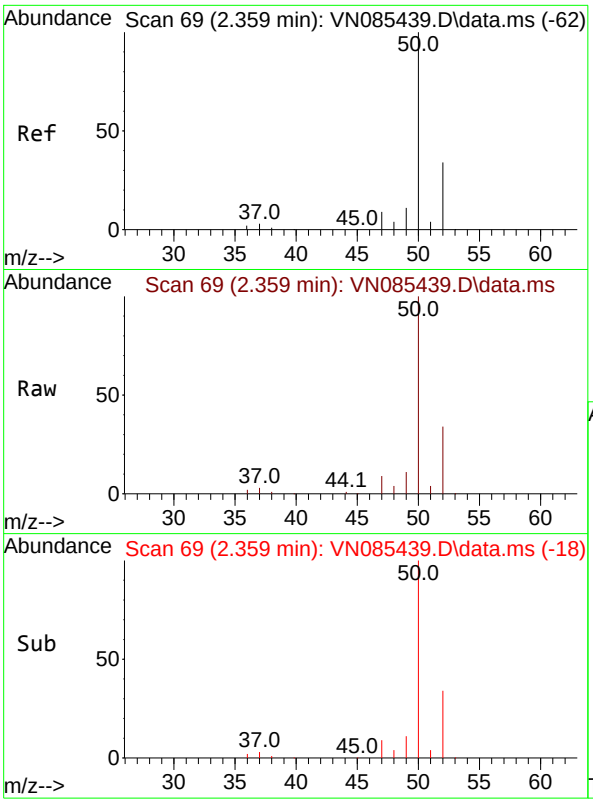


#2
Dichlorodifluoromethane
Concen: 46.486 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 85 Resp: 125504

Ion	Ratio	Lower	Upper
85	100		
87	33.4	16.7	50.1



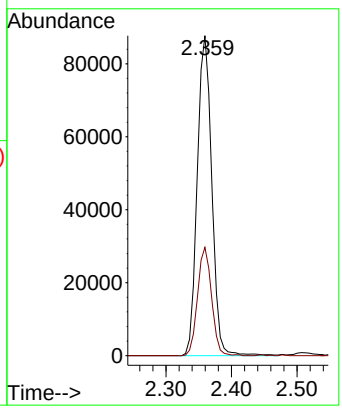


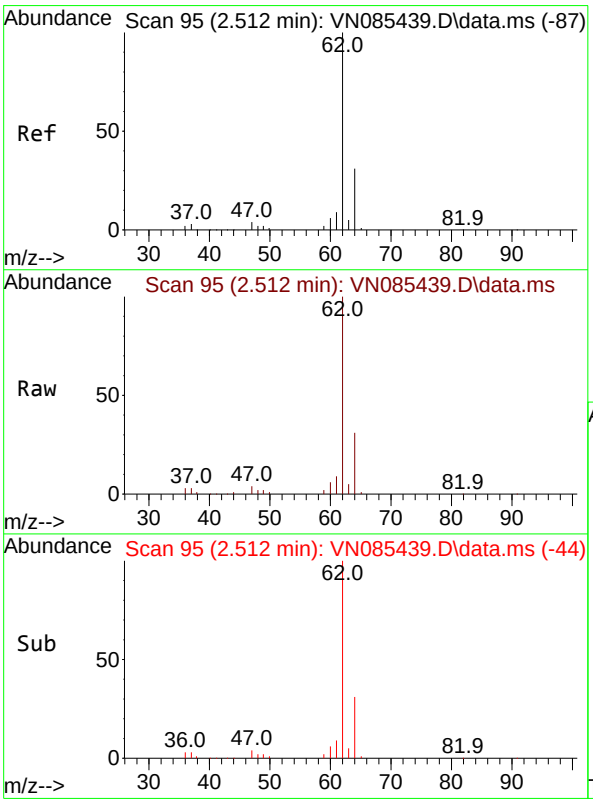
#3
Chloromethane
Concen: 46.398 ug/l
RT: 2.359 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 50 Resp: 135631

Ion	Ratio	Lower	Upper
50	100		
52	33.8	27.0	40.6

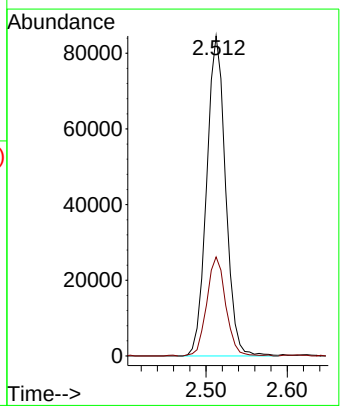


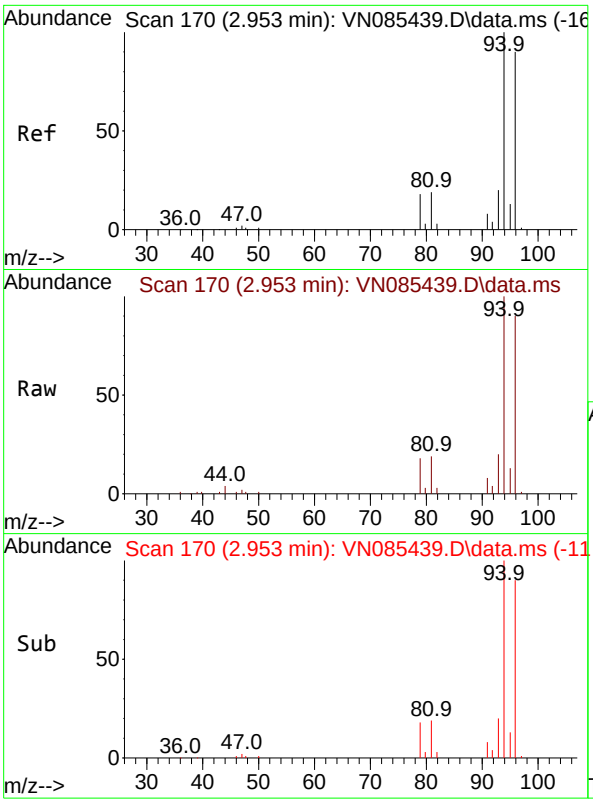


#4
Vinyl Chloride
Concen: 46.569 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 62 Resp: 136831

Ion	Ratio	Lower	Upper
62	100		
64	31.0	24.8	37.2



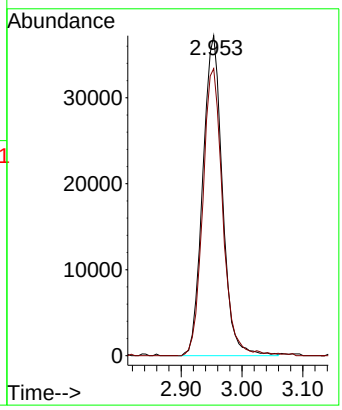


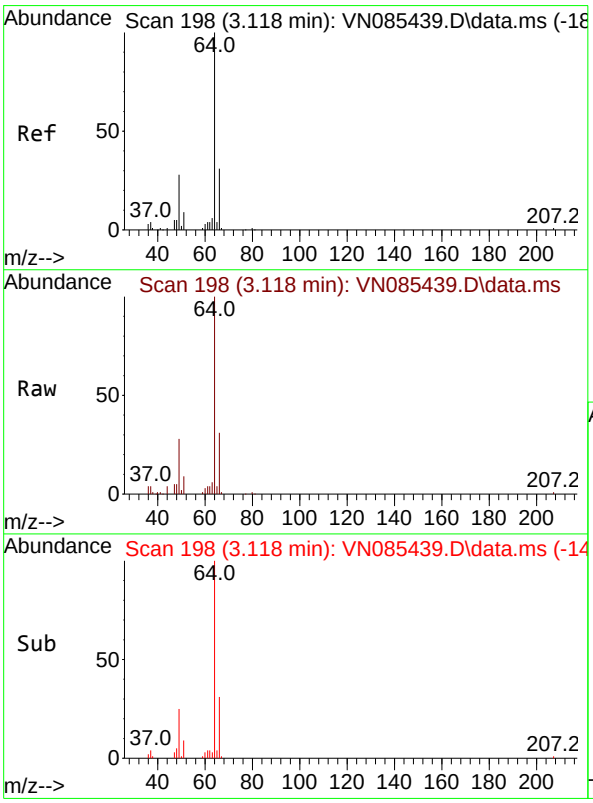
#5
Bromomethane
Concen: 46.877 ug/l
RT: 2.953 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 94 Resp: 83199

Ion	Ratio	Lower	Upper
94	100		
96	89.7	71.8	107.6

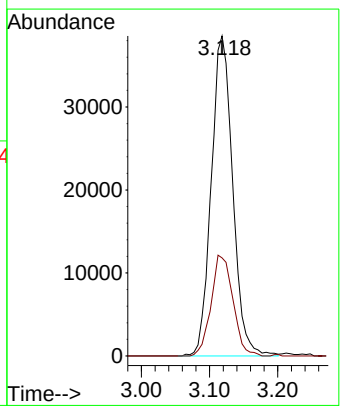


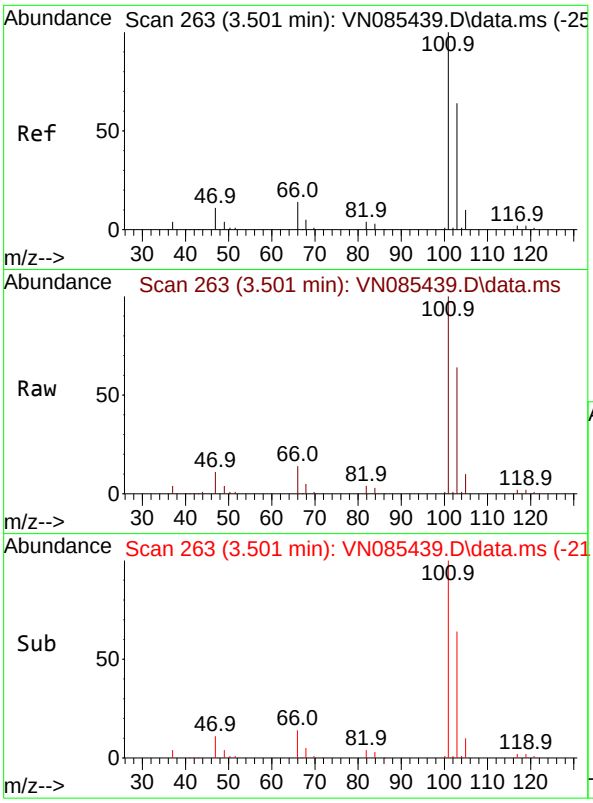


#6
Chloroethane
Concen: 45.371 ug/l
RT: 3.118 min Scan# 198
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 64 Resp: 84517

Ion	Ratio	Lower	Upper
64	100		
66	30.7	24.6	36.8



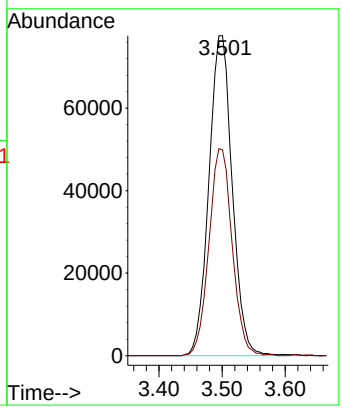


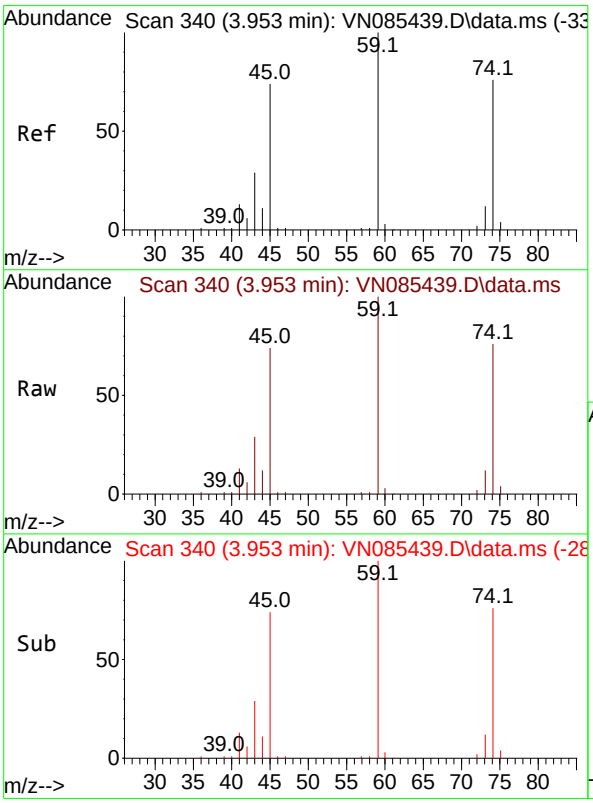
#7
Trichlorofluoromethane
Concen: 46.613 ug/l
RT: 3.501 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion:101 Resp: 198726

Ion	Ratio	Lower	Upper
101	100		
103	64.3	51.4	77.2

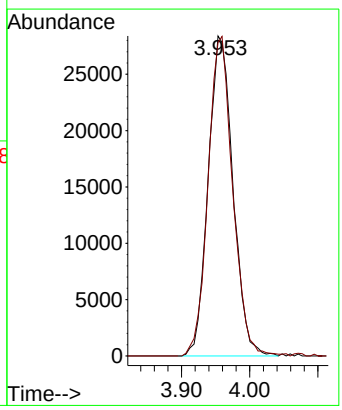


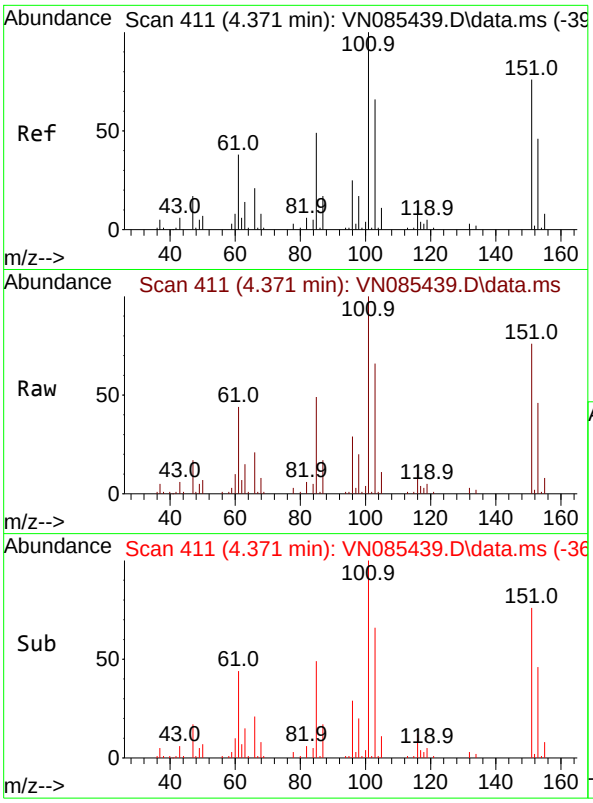


#8
Diethyl Ether
Concen: 48.726 ug/l
RT: 3.953 min Scan# 340
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 74 Resp: 71764

Ion	Ratio	Lower	Upper
74	100		
45	99.4	49.7	149.1



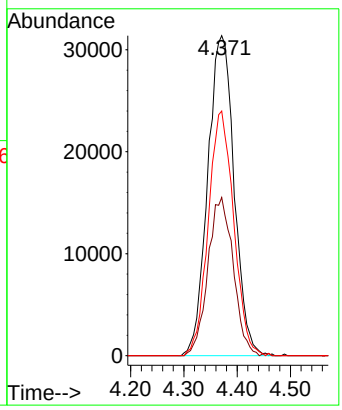


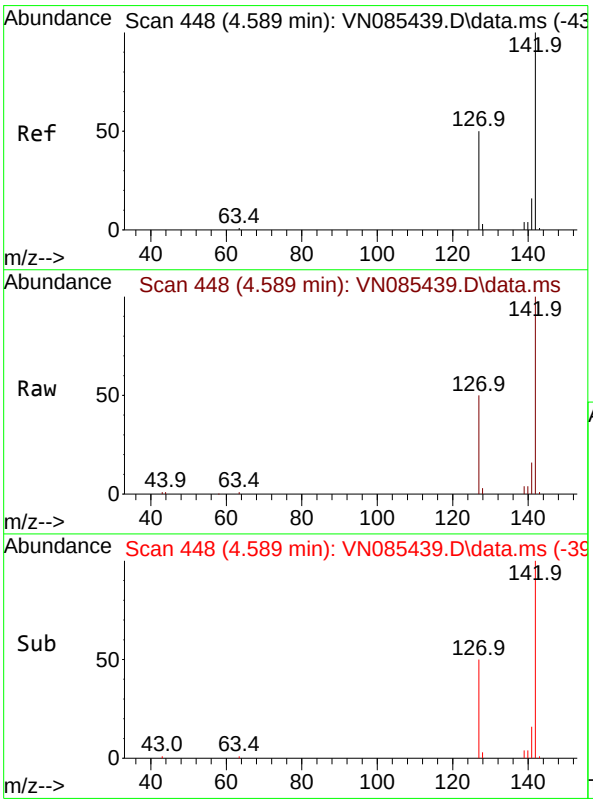
#9
1,1,2-Trichlorotrifluoroethane
Concen: 45.010 ug/l
RT: 4.371 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion:101 Resp: 108081

Ion	Ratio	Lower	Upper
101	100		
85	47.3	37.8	56.8
151	73.5	58.8	88.2

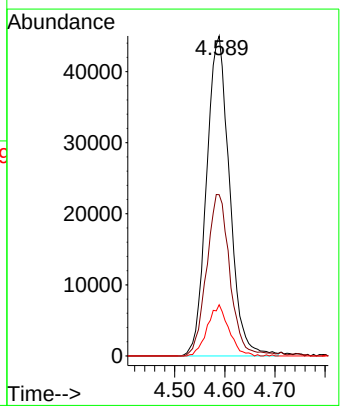


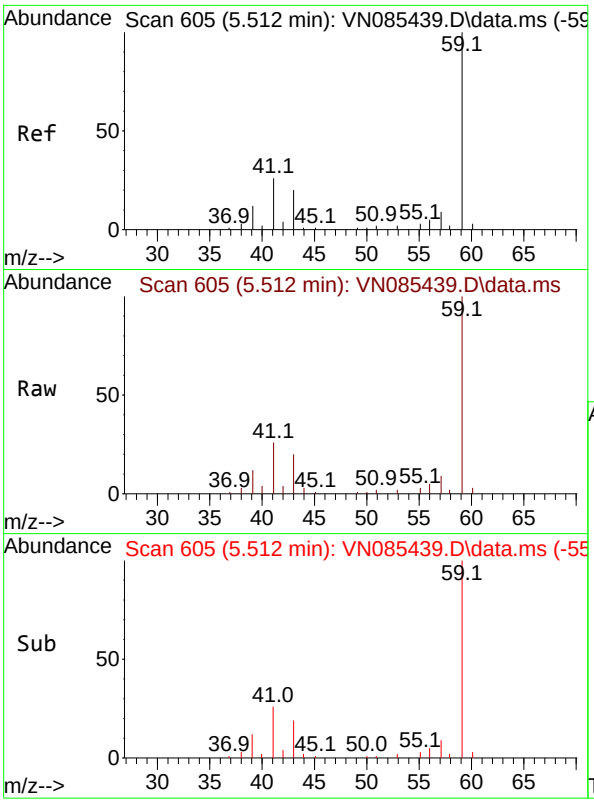


#10
Methyl Iodide
Concen: 52.142 ug/l
RT: 4.589 min Scan# 448
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion:142 Resp: 143383

Ion	Ratio	Lower	Upper
142	100		
127	50.4	40.3	60.5
141	16.0	12.8	19.2



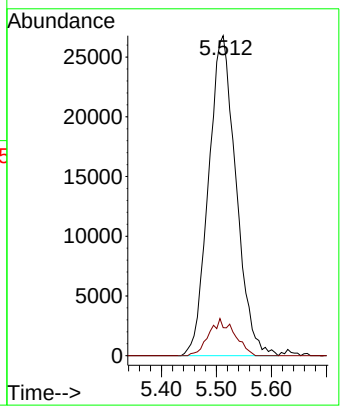


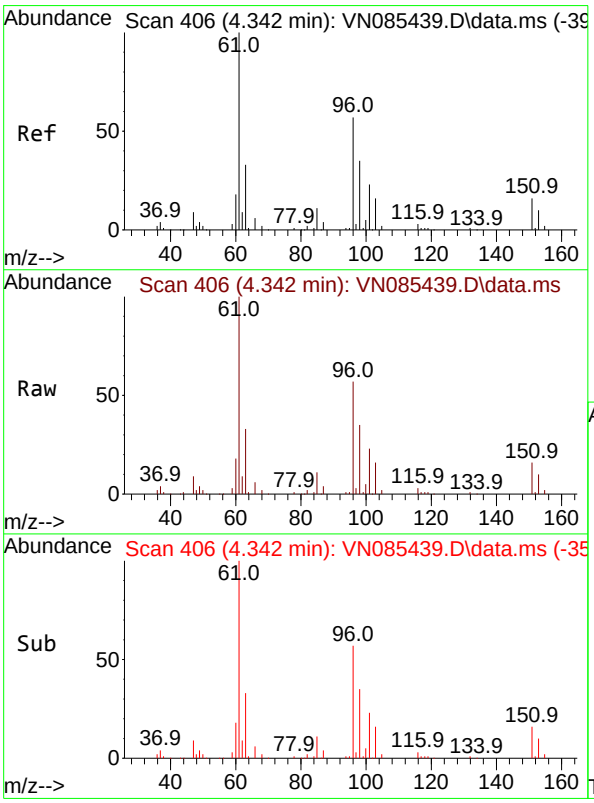
#11
Tert butyl alcohol
Concen: 251.894 ug/l
RT: 5.512 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 59 Resp: 92841

Ion	Ratio	Lower	Upper
59	100		
57	10.8	8.6	13.0

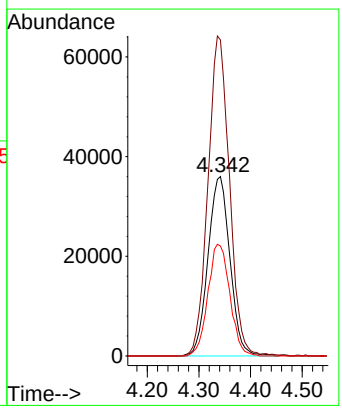


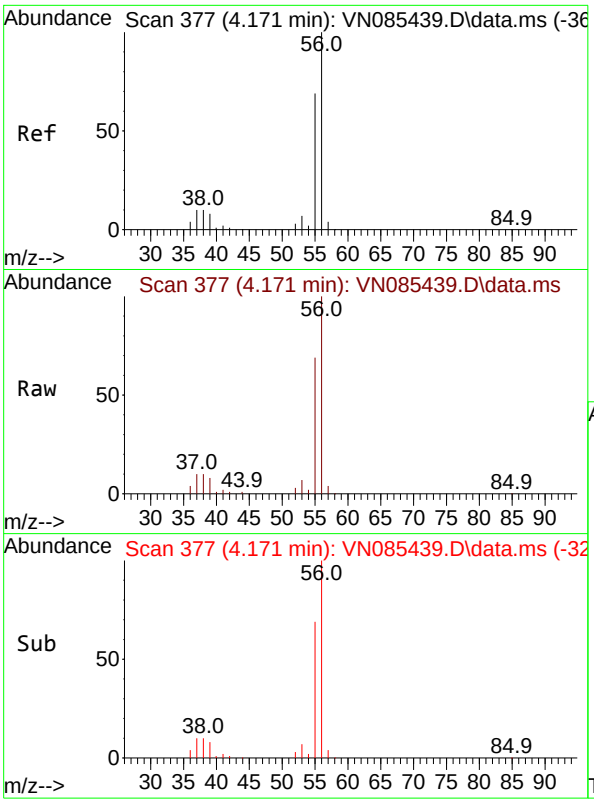


#12
1,1-Dichloroethene
Concen: 49.647 ug/l
RT: 4.342 min Scan# 406
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 96 Resp: 106247

Ion	Ratio	Lower	Upper
96	100		
61	176.2	141.0	211.4
98	61.3	49.0	73.6



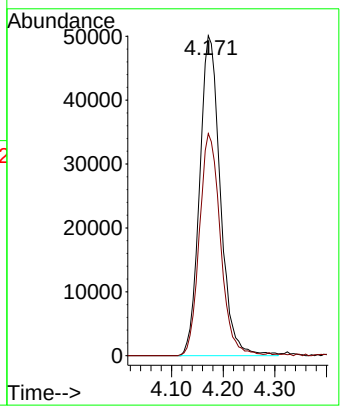


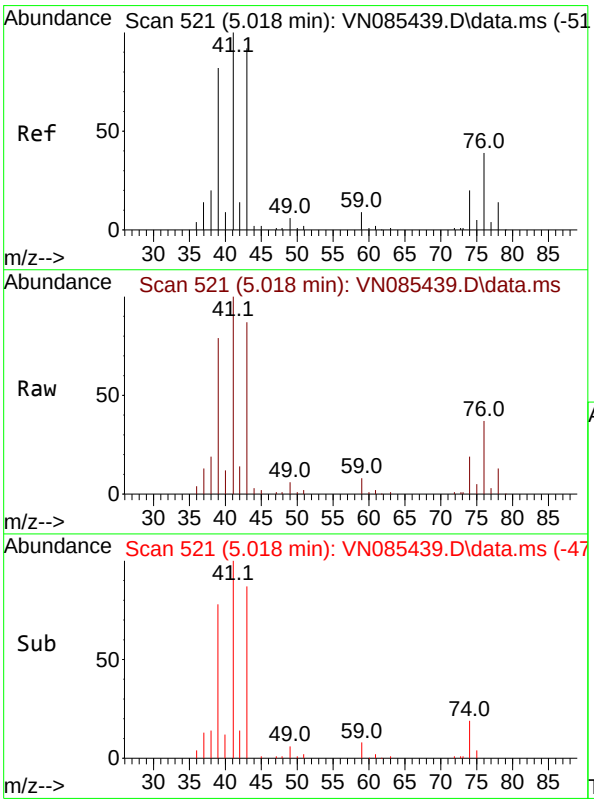
#13
Acrolein
Concen: 276.734 ug/l
RT: 4.171 min Scan# 3
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 56 Resp: 139234

Ion	Ratio	Lower	Upper
56	100		
55	70.4	56.3	84.5

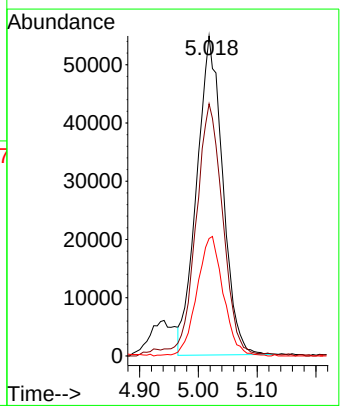


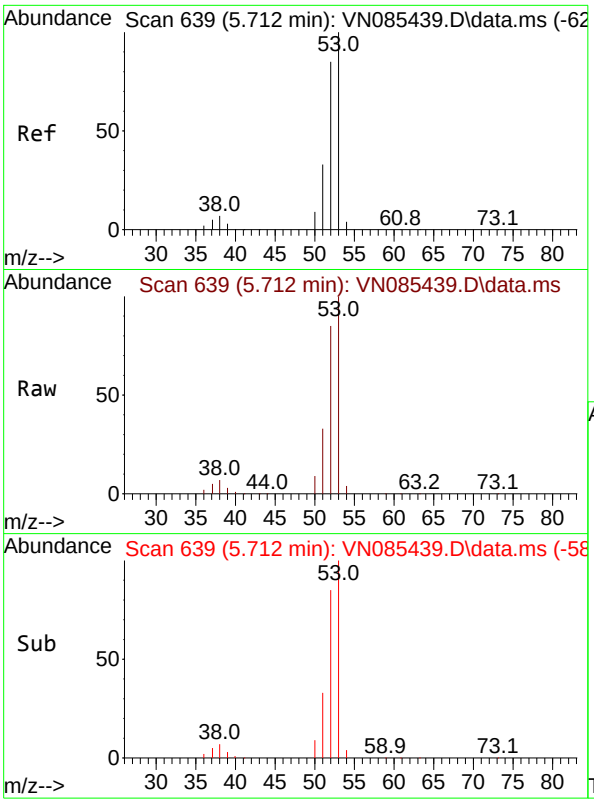


#14
Allyl chloride
Concen: 48.567 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 41 Resp: 168654

Ion	Ratio	Lower	Upper
41	100		
39	80.5	64.4	96.6
76	38.1	30.5	45.7



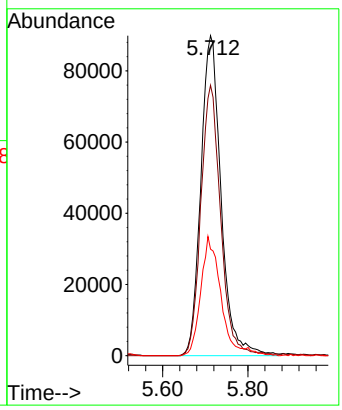


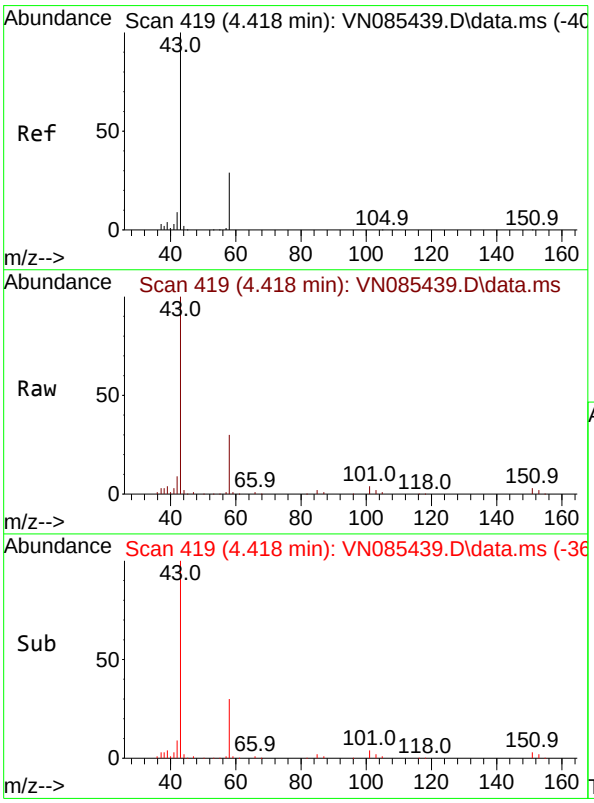
#15
Acrylonitrile
Concen: 253.507 ug/l
RT: 5.712 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 53 Resp: 296781

Ion	Ratio	Lower	Upper
53	100		
52	81.9	65.5	98.3
51	37.3	29.8	44.8

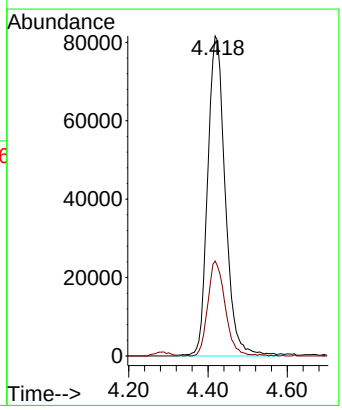


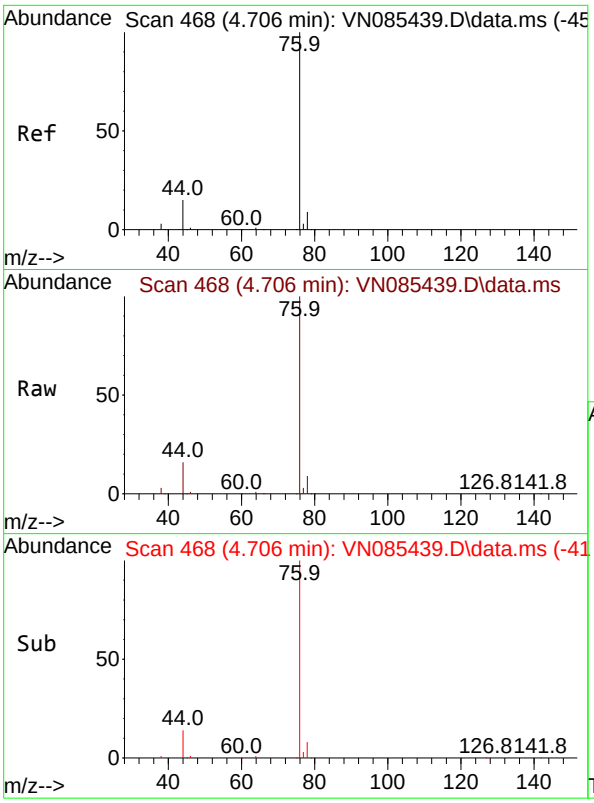


#16
Acetone
Concen: 241.603 ug/l
RT: 4.418 min Scan# 419
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 43 Resp: 251271

Ion	Ratio	Lower	Upper
43	100		
58	29.7	23.8	35.6



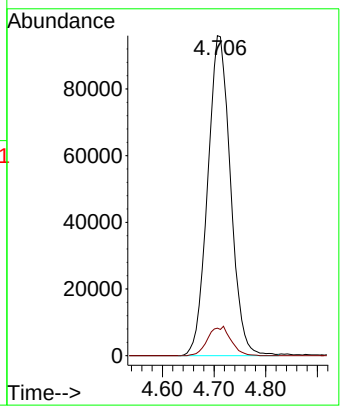


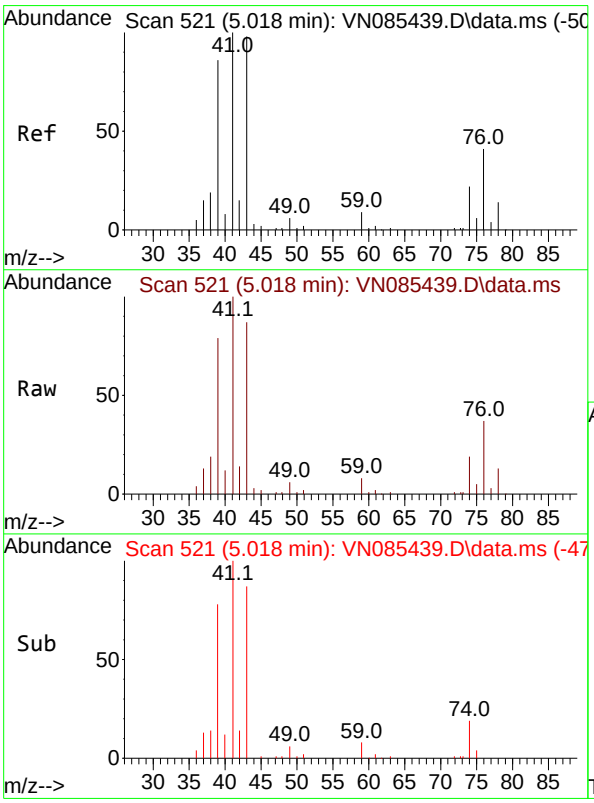
#17
Carbon Disulfide
Concen: 44.710 ug/l
RT: 4.706 min Scan# 4
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 76 Resp: 294604

Ion	Ratio	Lower	Upper
76	100		
78	8.6	6.9	10.3

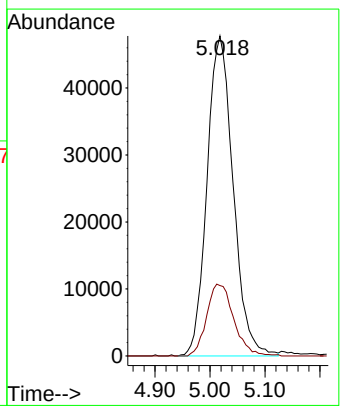


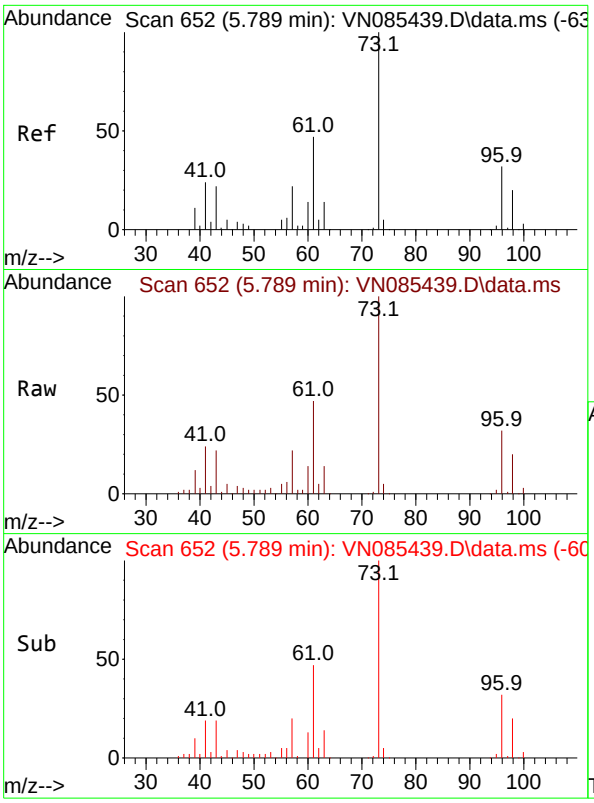


#18
Methyl Acetate
Concen: 49.798 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 43 Resp: 157485

Ion	Ratio	Lower	Upper
43	100		
74	23.3	18.6	28.0



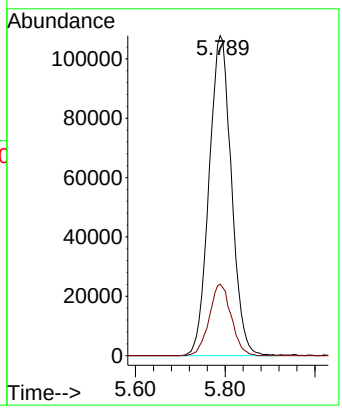


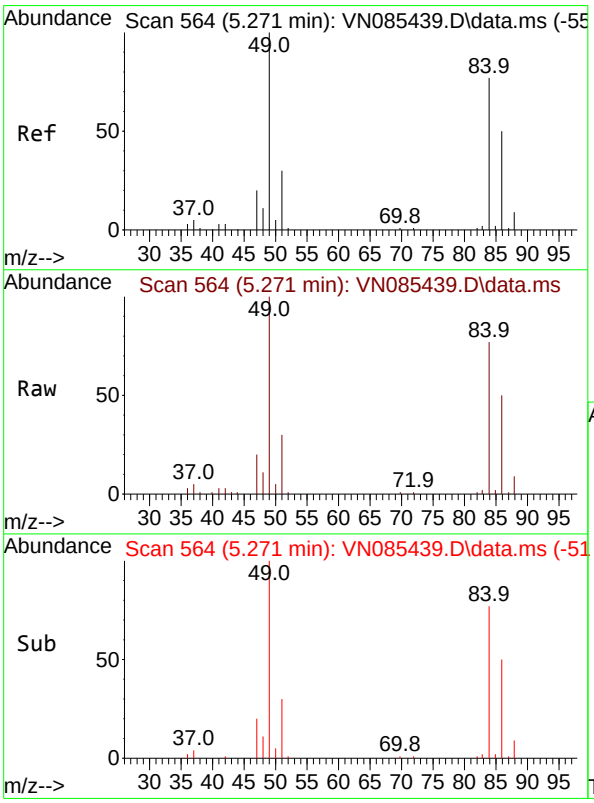
#19
Methyl tert-butyl Ether
Concen: 53.758 ug/l
RT: 5.789 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 73 Resp: 373561

Ion	Ratio	Lower	Upper
73	100		
57	22.3	17.8	26.8

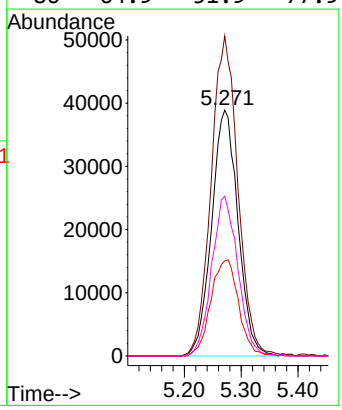


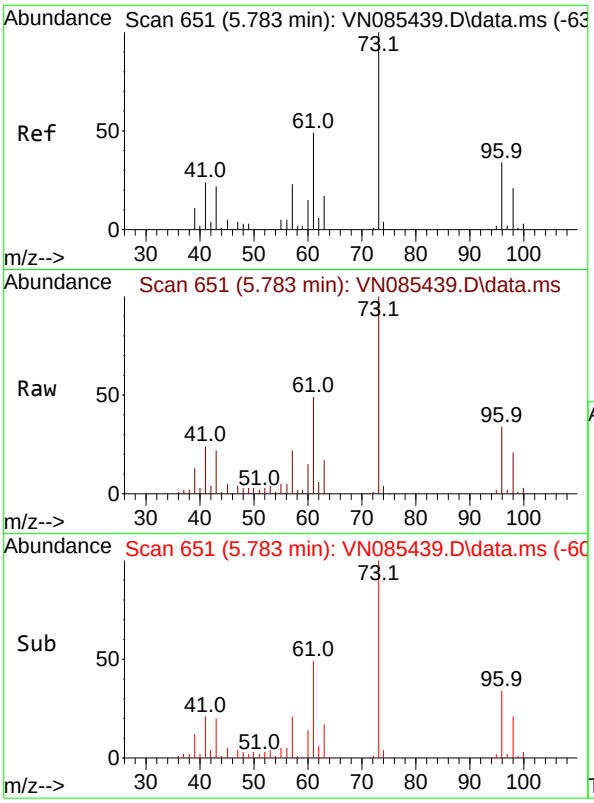


#20
Methylene Chloride
Concen: 48.748 ug/l
RT: 5.271 min Scan# 564
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 84 Resp: 125508

Ion	Ratio	Lower	Upper
84	100		
49	130.1	104.1	156.1
51	38.7	31.0	46.4
86	64.9	51.9	77.9



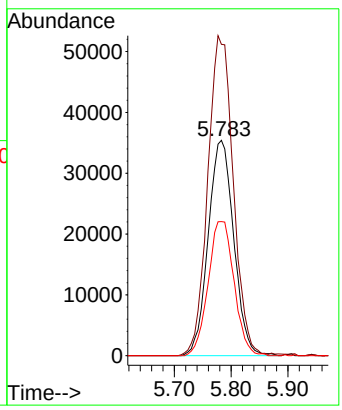


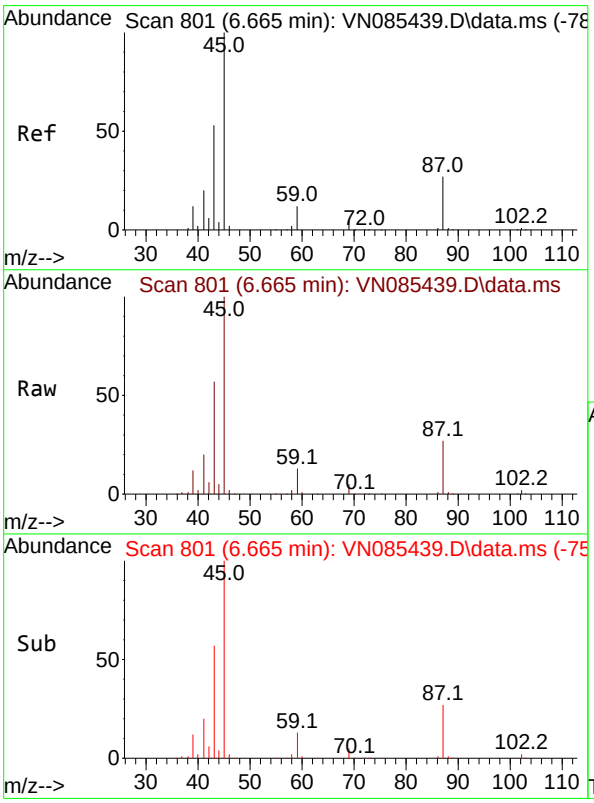
#21
trans-1,2-Dichloroethene
Concen: 48.395 ug/l
RT: 5.783 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 96 Resp: 110684

Ion	Ratio	Lower	Upper
96	100		
61	144.6	115.7	173.5
98	62.3	49.8	74.8

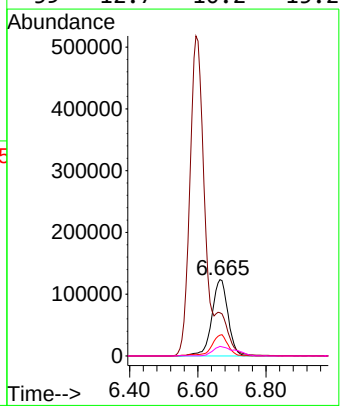


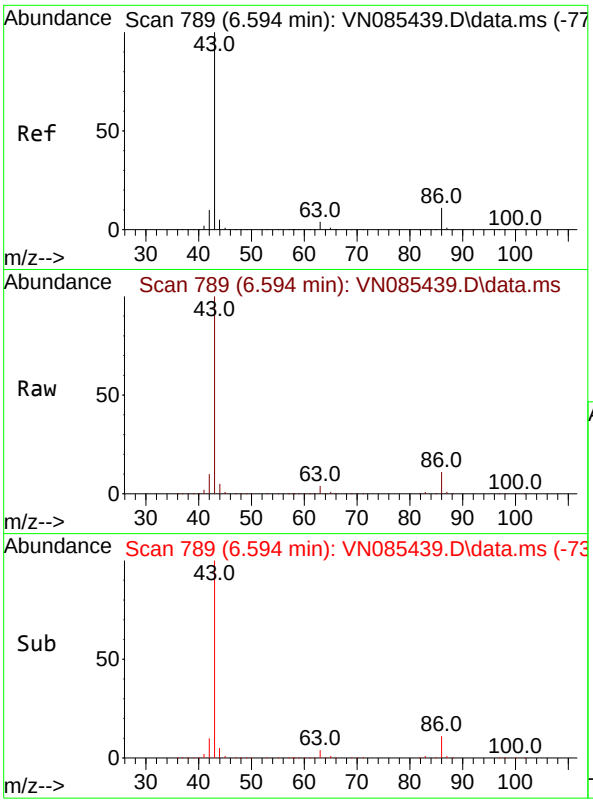


#22
Diisopropyl ether
Concen: 52.707 ug/l
RT: 6.665 min Scan# 801
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 45 Resp: 406253

Ion	Ratio	Lower	Upper
45	100		
43	56.3	45.0	67.6
87	27.3	21.8	32.8
59	12.7	10.2	15.2



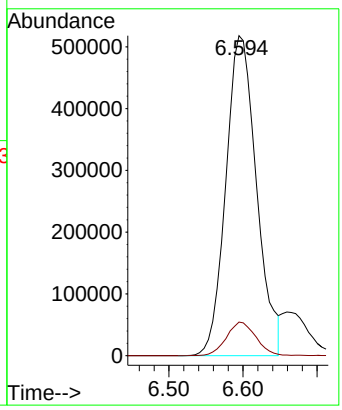


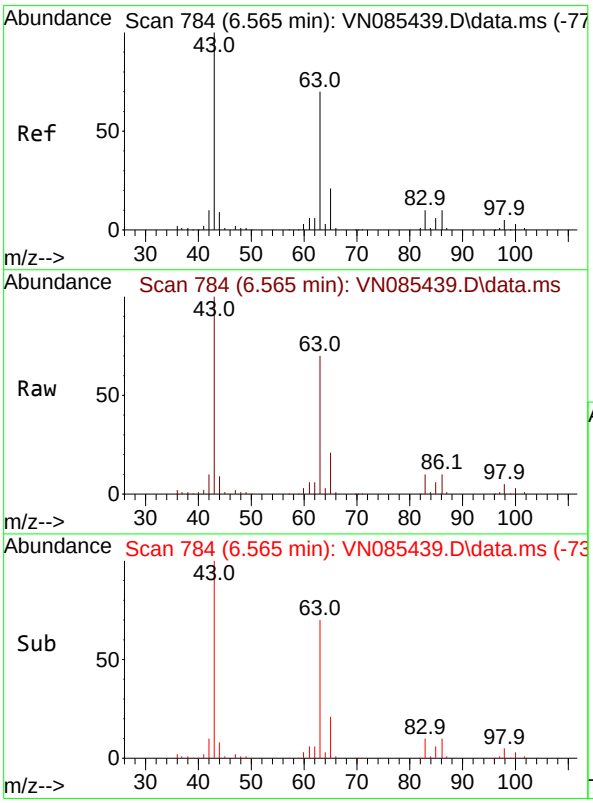
#23
Vinyl Acetate
Concen: 275.471 ug/l
RT: 6.594 min Scan# 7
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 1491031

Ion	Ratio	Lower	Upper
43	100		
86	10.5	8.4	12.6

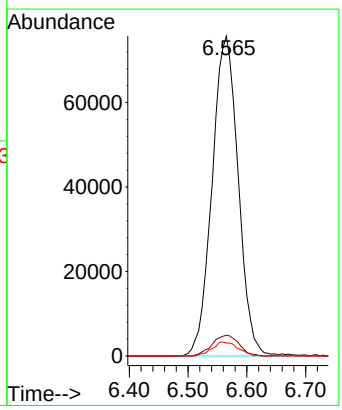


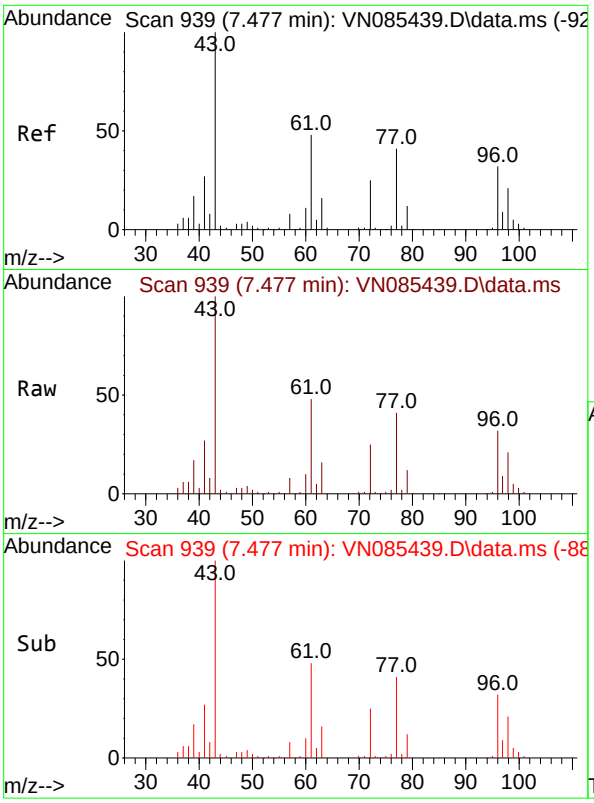


#24
1,1-Dichloroethane
Concen: 49.648 ug/l
RT: 6.565 min Scan# 784
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 63 Resp: 233336

Ion	Ratio	Lower	Upper
63	100		
98	6.5	3.3	9.8
100	4.0	2.0	6.0



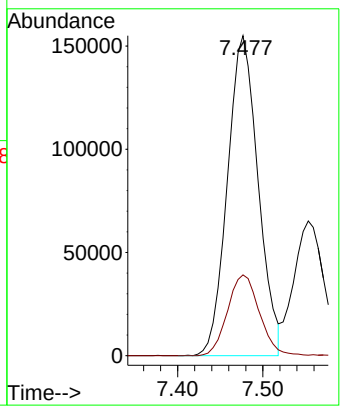


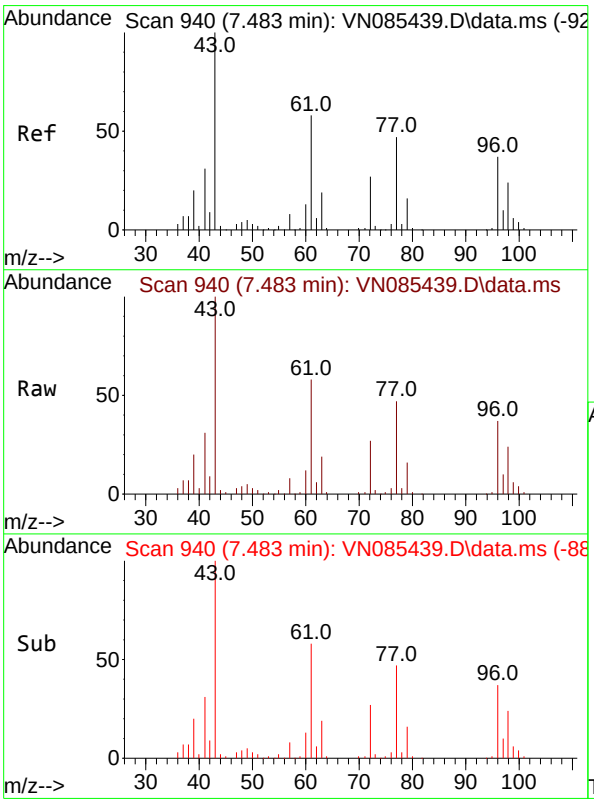
#25
2-Butanone
Concen: 253.815 ug/l
RT: 7.477 min Scan# 9
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 388457

Ion	Ratio	Lower	Upper
43	100		
72	25.3	20.2	30.4

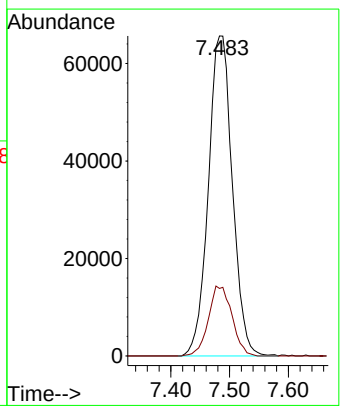


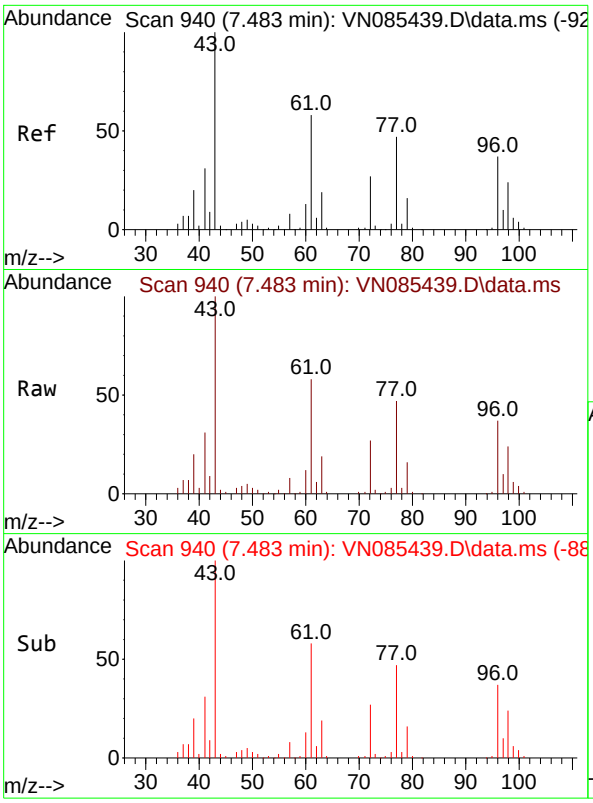


#26
2,2-Dichloropropane
Concen: 49.106 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 77 Resp: 186591

Ion	Ratio	Lower	Upper
77	100		
97	21.4	10.7	32.1



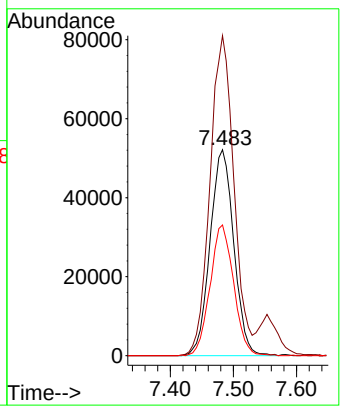


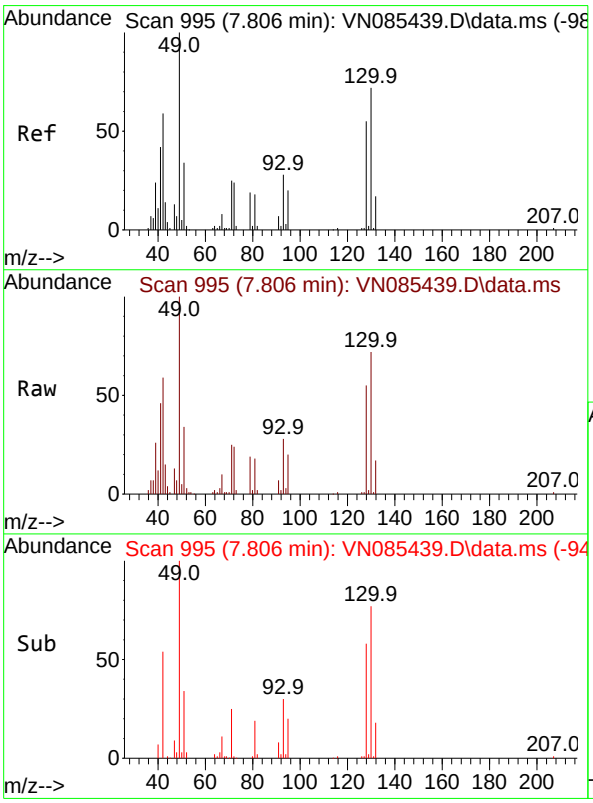
#27
cis-1,2-Dichloroethene
Concen: 50.571 ug/l
RT: 7.483 min Scan# 94
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 96 Resp: 136229

Ion	Ratio	Lower	Upper
96	100		
61	155.9	0.0	311.8
98	63.0	0.0	126.0

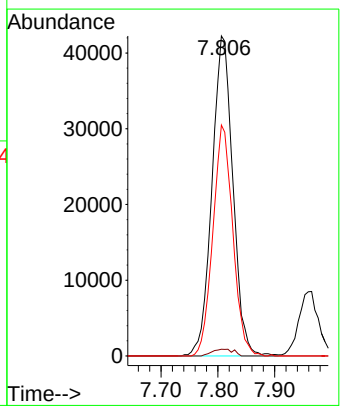


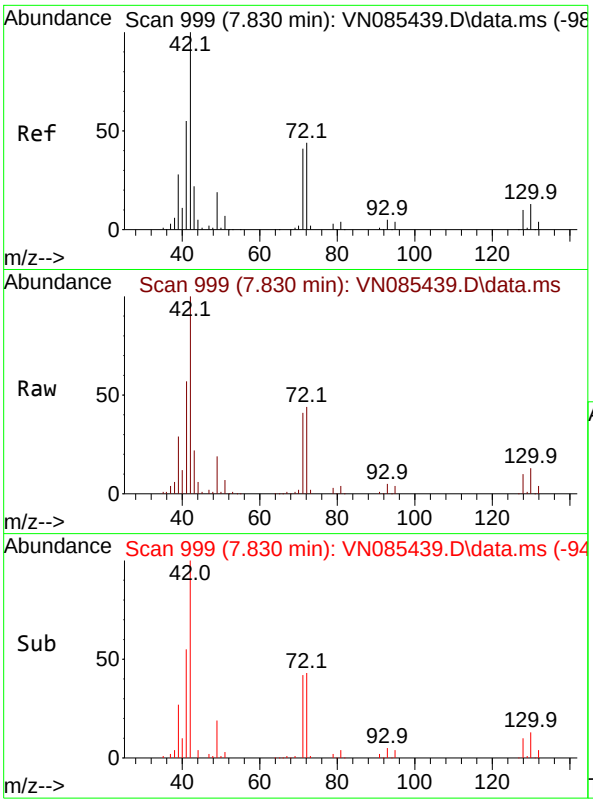


#28
Bromochloromethane
Concen: 49.461 ug/l
RT: 7.806 min Scan# 995
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 49 Resp: 108148

Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	4.4
130	68.7	55.0	82.4



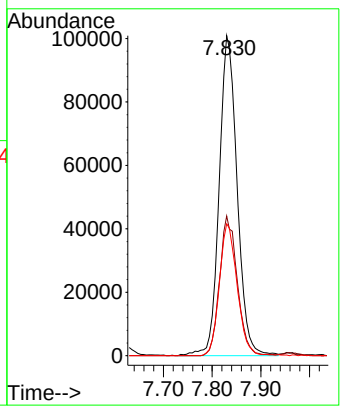


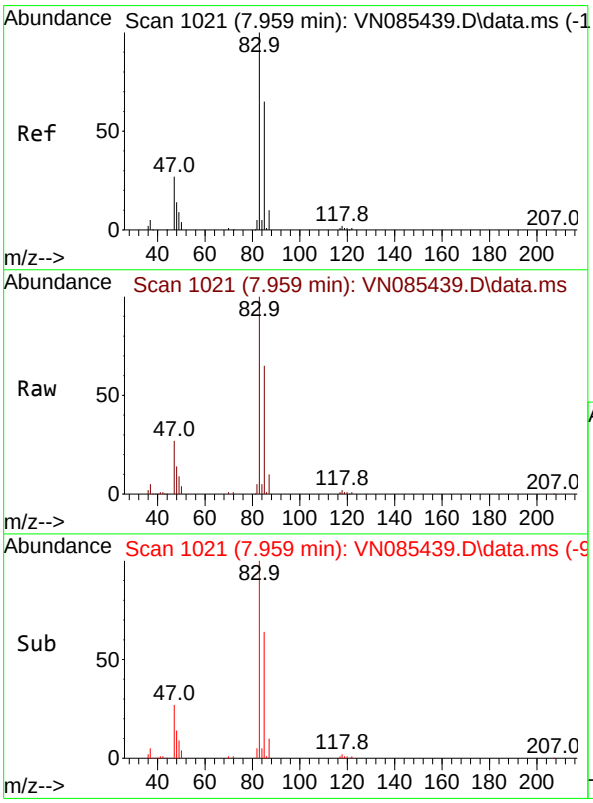
#29
Tetrahydrofuran
Concen: 267.624 ug/l
RT: 7.830 min Scan# 9
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 42 Resp: 259683

Ion	Ratio	Lower	Upper
42	100		
72	42.7	34.2	51.2
71	40.6	32.5	48.7

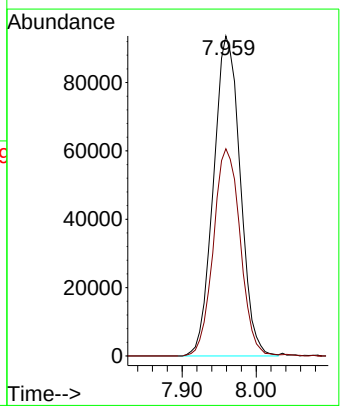


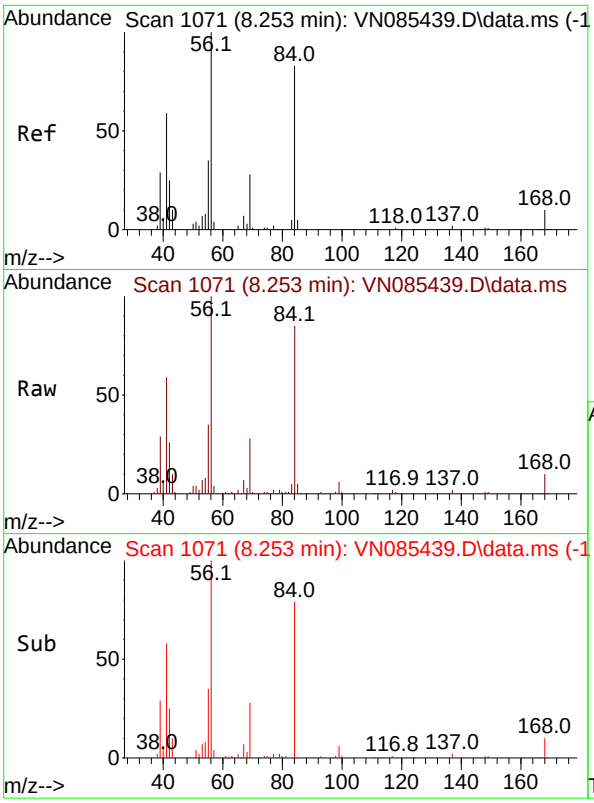


#30
Chloroform
Concen: 48.229 ug/l
RT: 7.959 min Scan# 1021
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 83 Resp: 234271

Ion	Ratio	Lower	Upper
83	100		
85	64.7	51.8	77.6



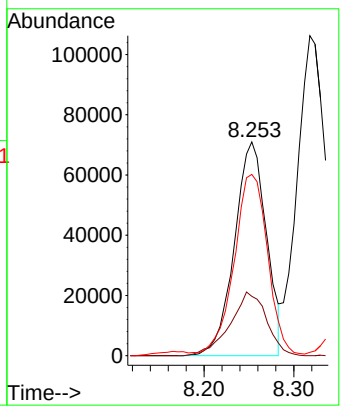


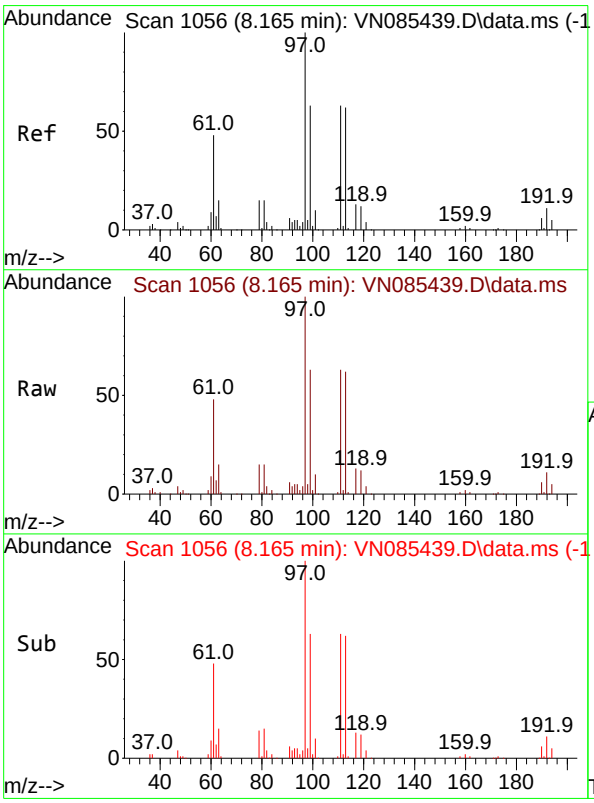
#31
Cyclohexane
Concen: 42.984 ug/l
RT: 8.253 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 56 Resp: 175588

Ion	Ratio	Lower	Upper
56	100		
69	27.8	22.2	33.4
84	83.0	66.4	99.6

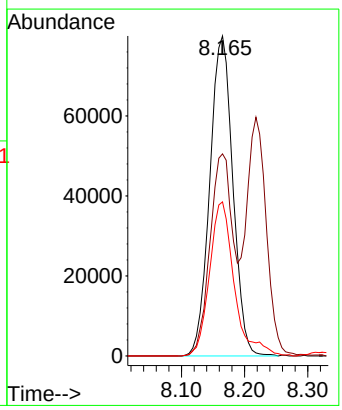


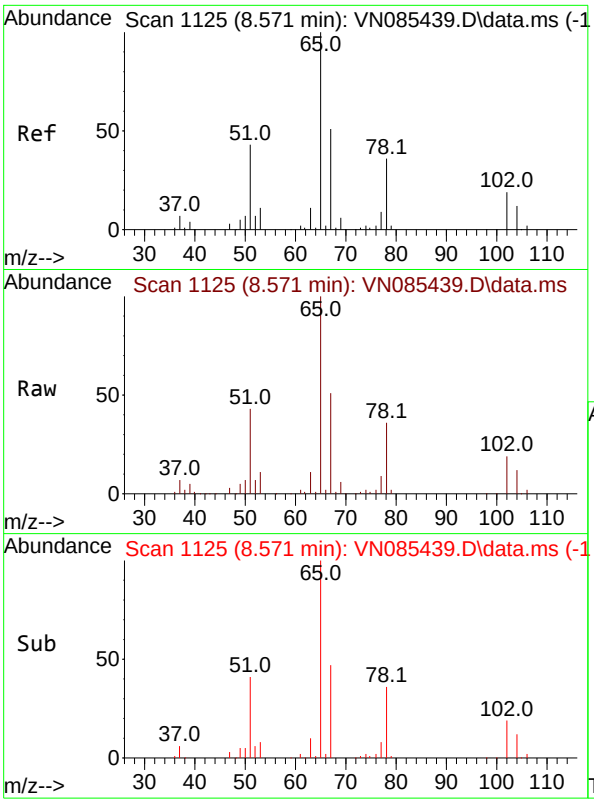


#32
1,1,1-Trichloroethane
Concen: 47.547 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 97 Resp: 202590

Ion	Ratio	Lower	Upper
97	100		
99	62.2	49.8	74.6
61	51.8	41.4	62.2



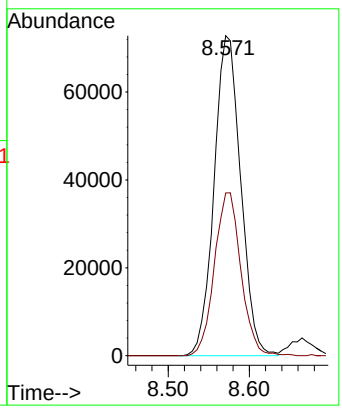


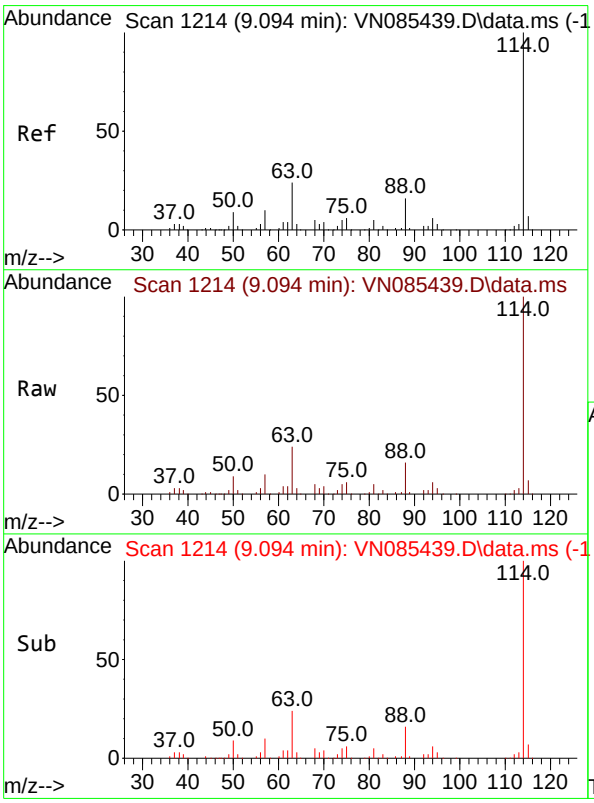
#33
1,2-Dichloroethane-d4
Concen: 51.500 ug/l
RT: 8.571 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 65 Resp: 165768

Ion	Ratio	Lower	Upper
65	100		
67	50.8	0.0	101.6

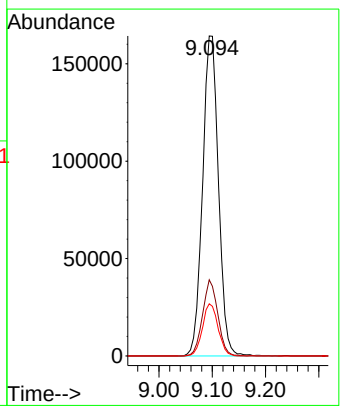


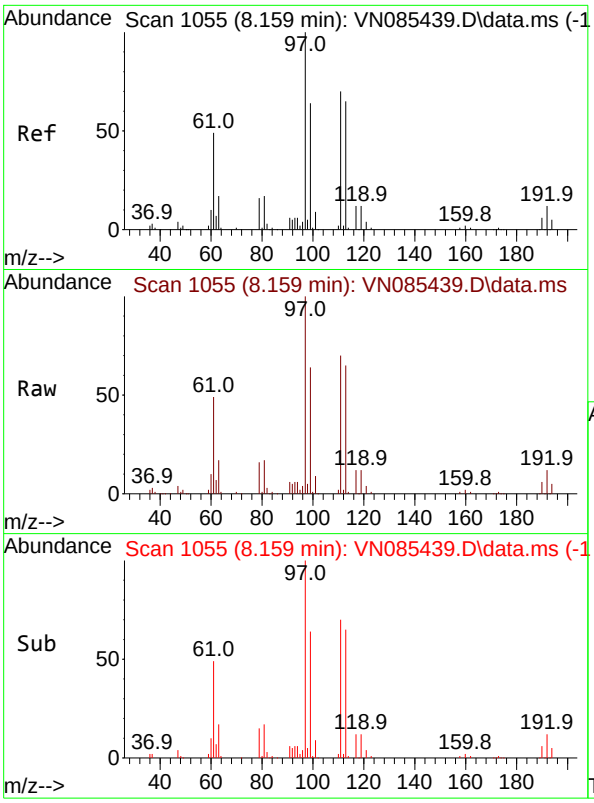


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.094 min Scan# 1214
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion:114 Resp: 339872

Ion	Ratio	Lower	Upper
114	100		
63	23.8	0.0	47.6
88	16.3	0.0	32.6



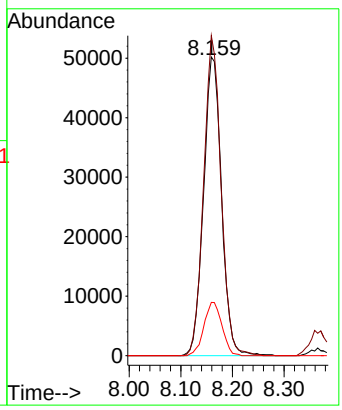


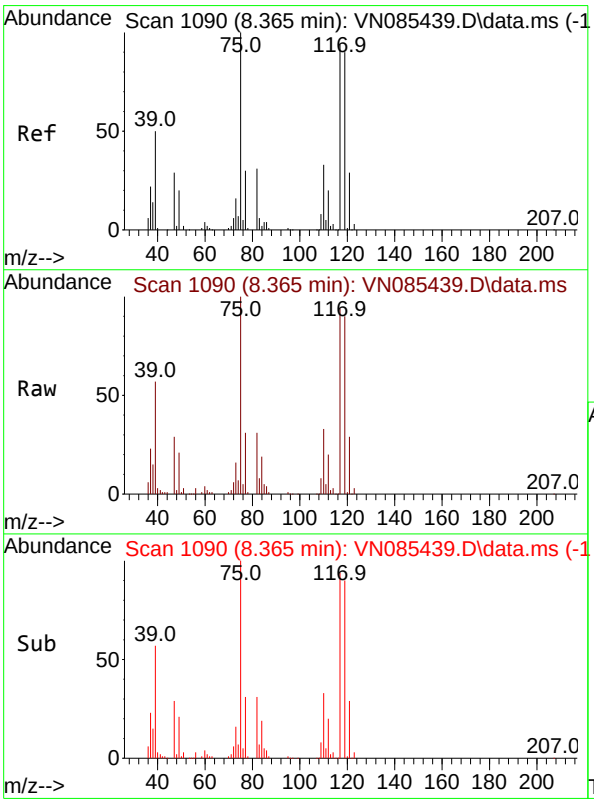
#35
Dibromofluoromethane
Concen: 51.552 ug/l
RT: 8.159 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion:113 Resp: 121554

Ion	Ratio	Lower	Upper
113	100		
111	103.4	82.7	124.1
192	17.9	14.3	21.5

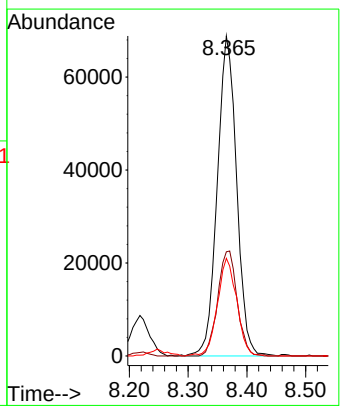


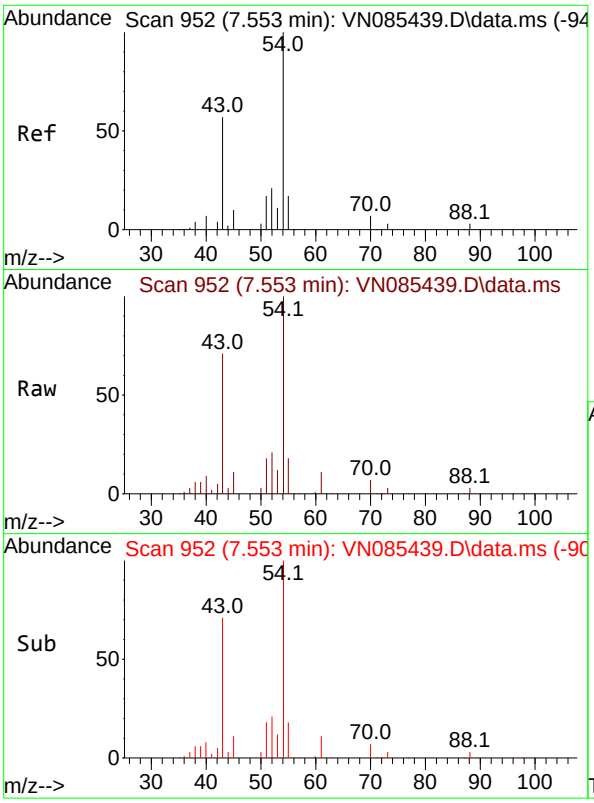


#36
1,1-Dichloropropene
Concen: 47.453 ug/l
RT: 8.365 min Scan# 1090
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 75 Resp: 157031

Ion	Ratio	Lower	Upper
75	100		
110	33.0	16.5	49.5
77	30.5	24.4	36.6



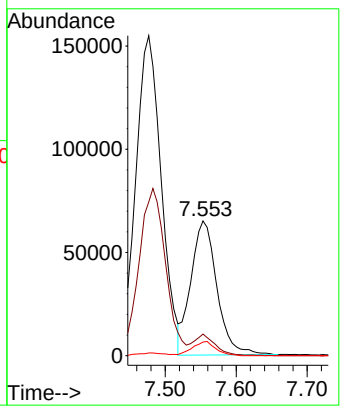


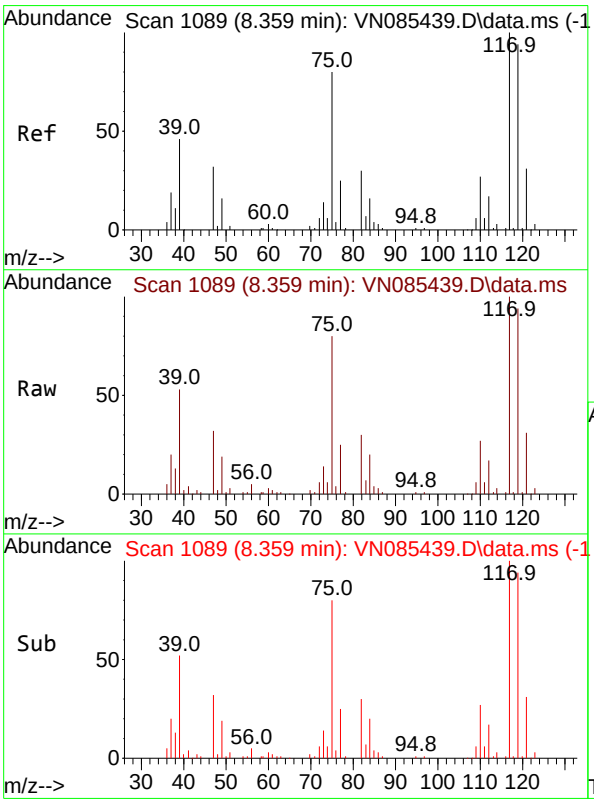
#37
Ethyl Acetate
Concen: 49.658 ug/l
RT: 7.553 min Scan# 9
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 165866

Ion	Ratio	Lower	Upper
43	100		
61	13.6	10.9	16.3
70	9.4	7.5	11.3

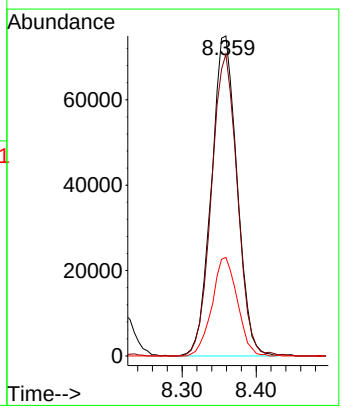


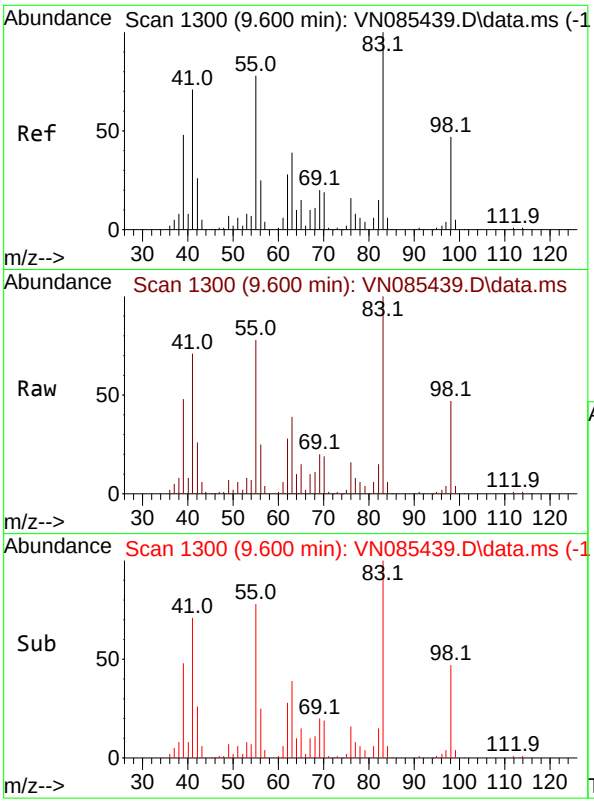


#38
Carbon Tetrachloride
Concen: 47.564 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion:117 Resp: 180199

Ion	Ratio	Lower	Upper
117	100		
119	94.3	75.4	113.2
121	30.8	24.6	37.0



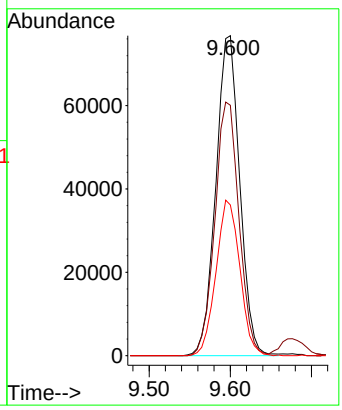


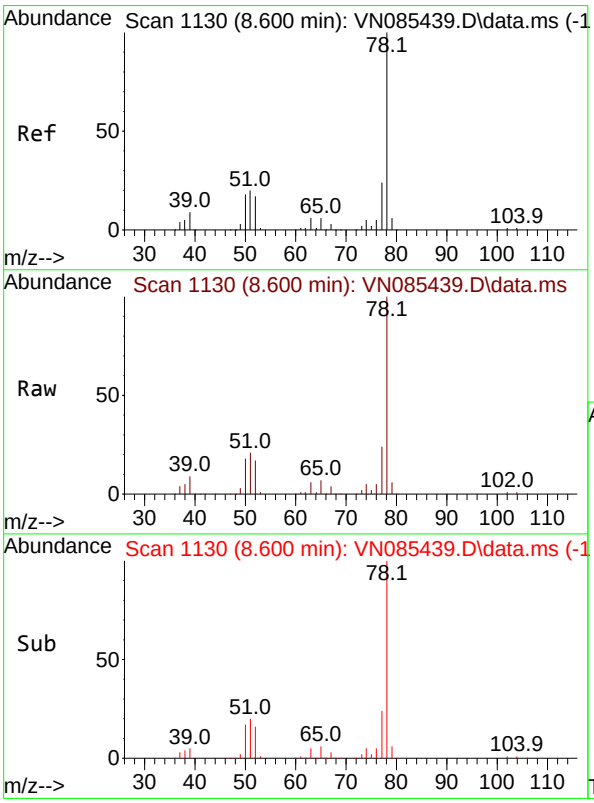
#39
Methylcyclohexane
Concen: 50.562 ug/l
RT: 9.600 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 83 Resp: 157234

Ion	Ratio	Lower	Upper
83	100		
55	78.3	62.6	94.0
98	47.1	37.7	56.5

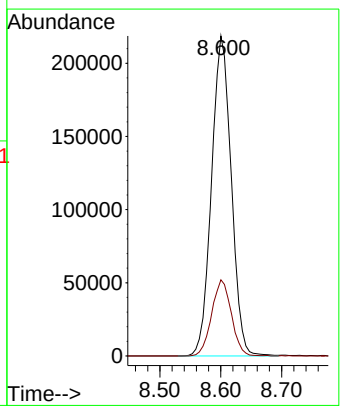


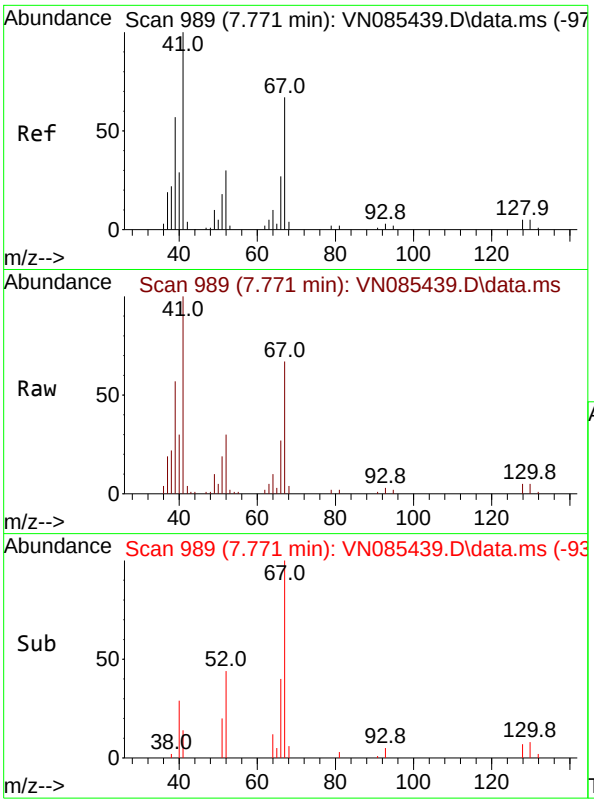


#40
Benzene
Concen: 49.542 ug/l
RT: 8.600 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 78 Resp: 492606

Ion	Ratio	Lower	Upper
78	100		
77	23.8	19.0	28.6



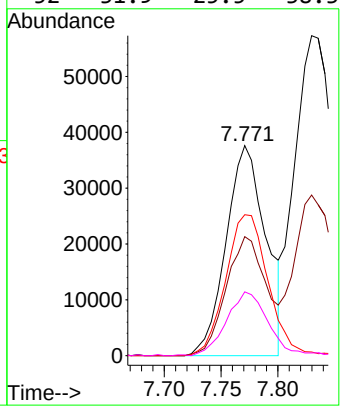


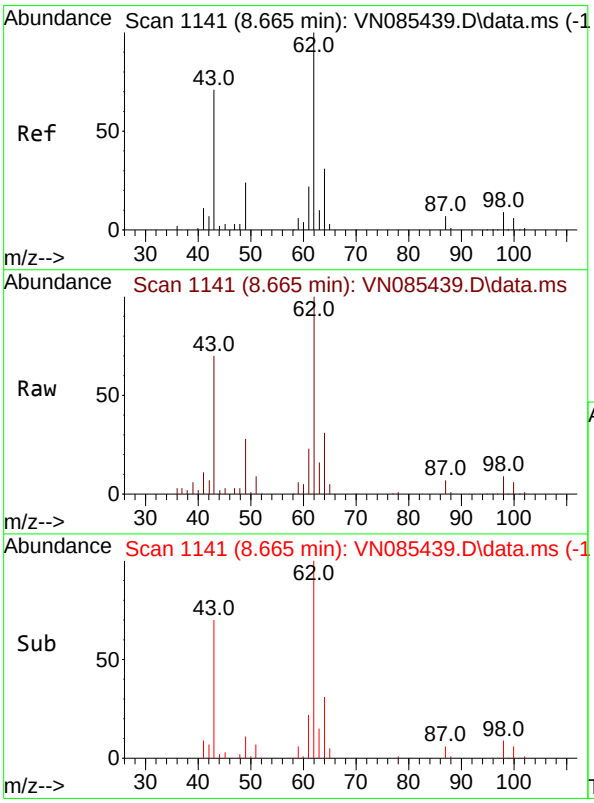
#41
Methacrylonitrile
Concen: 52.775 ug/l
RT: 7.771 min Scan# 9
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 41 Resp: 91711

Ion	Ratio	Lower	Upper
41	100		
39	57.5	46.0	69.0
67	71.8	57.4	86.2
52	31.9	25.5	38.3

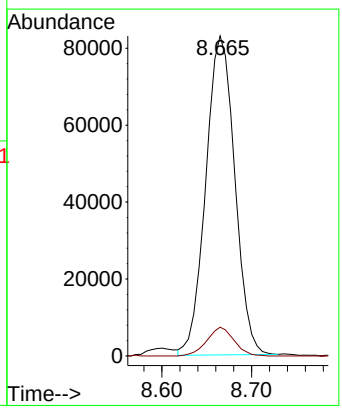


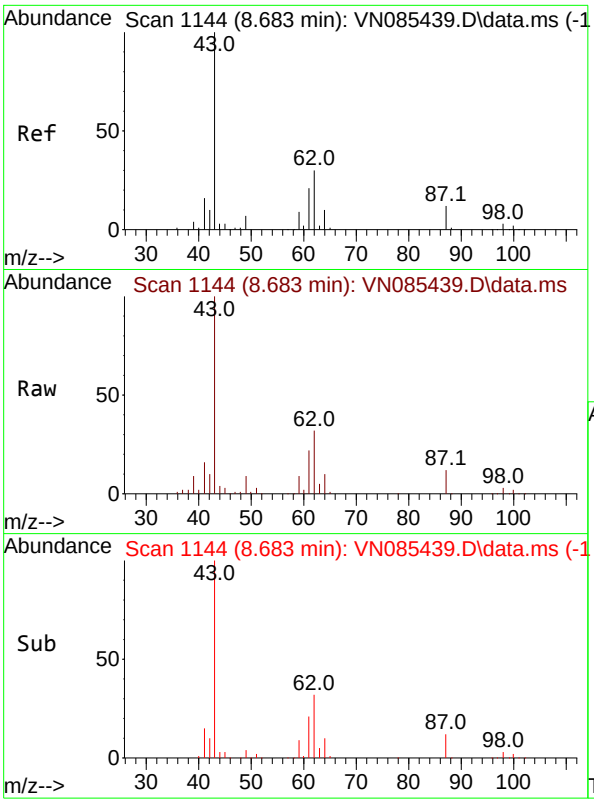


#42
1,2-Dichloroethane
Concen: 49.685 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 62 Resp: 186065

Ion	Ratio	Lower	Upper
62	100		
98	8.5	0.0	17.0



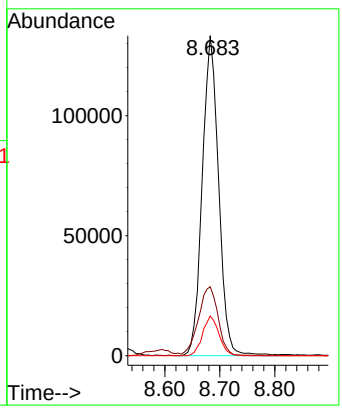


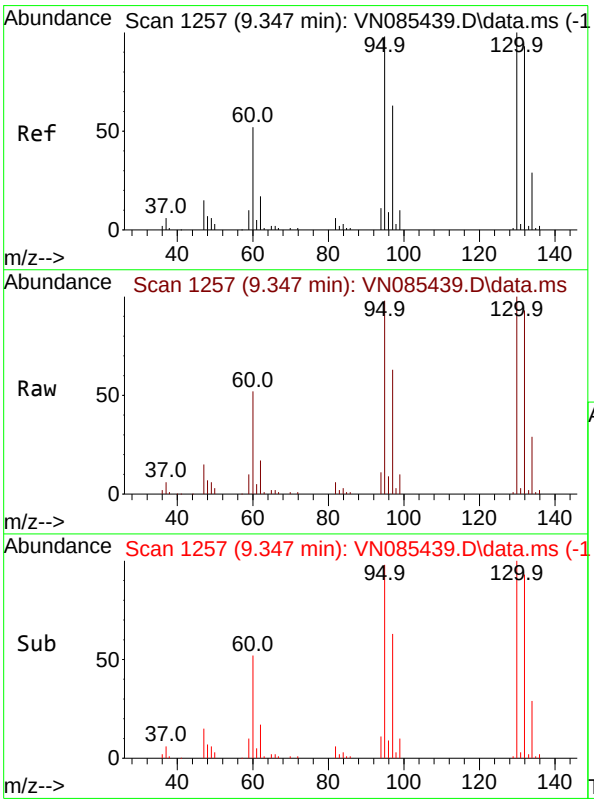
#43
Isopropyl Acetate
Concen: 51.611 ug/l
RT: 8.683 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 276228

Ion	Ratio	Lower	Upper
43	100		
61	25.9	20.7	31.1
87	12.3	9.8	14.8

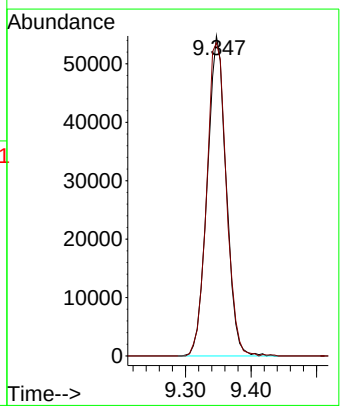


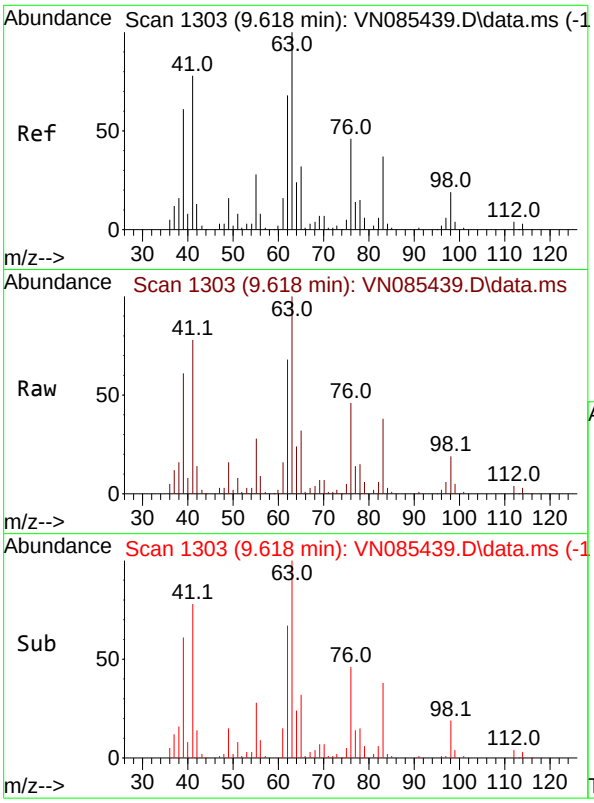


#44
Trichloroethene
Concen: 47.506 ug/l
RT: 9.347 min Scan# 1257
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion:130 Resp: 109953

Ion	Ratio	Lower	Upper
130	100		
95	97.9	0.0	195.8



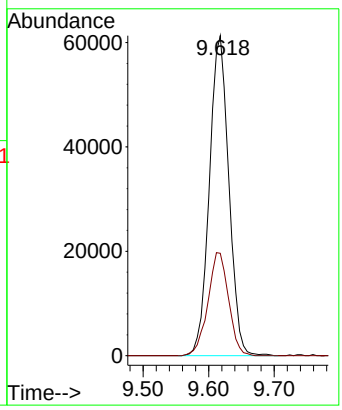


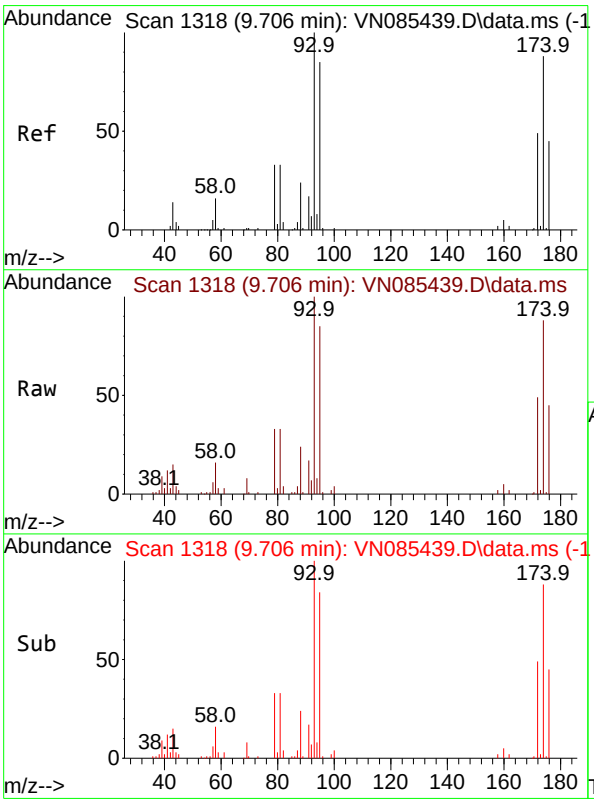
#45
1,2-Dichloropropane
Concen: 49.644 ug/l
RT: 9.618 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 63 Resp: 126084

Ion	Ratio	Lower	Upper
63	100		
65	32.0	25.6	38.4

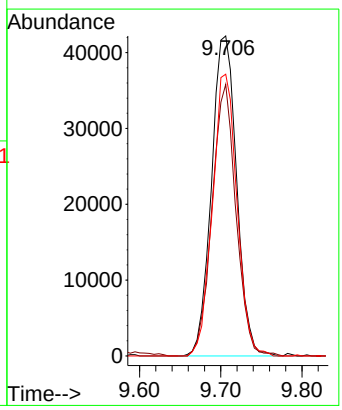


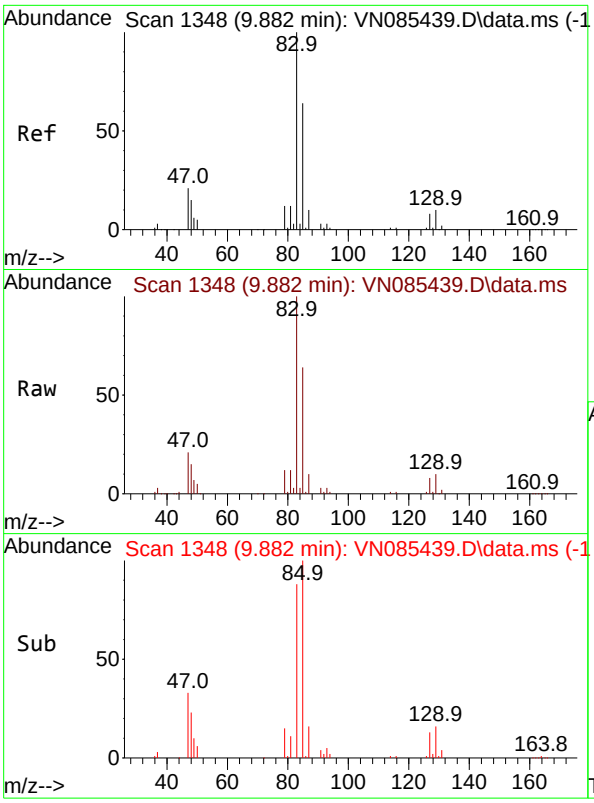


#46
Dibromomethane
Concen: 49.476 ug/l
RT: 9.706 min Scan# 1318
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 93 Resp: 90670

Ion	Ratio	Lower	Upper
93	100		
95	80.9	64.7	97.1
174	86.2	69.0	103.4



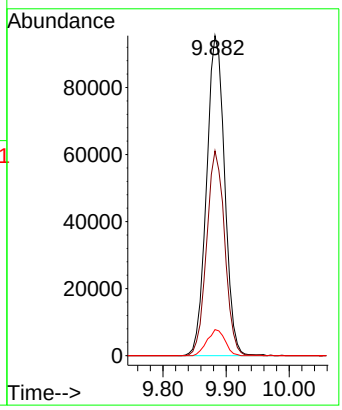


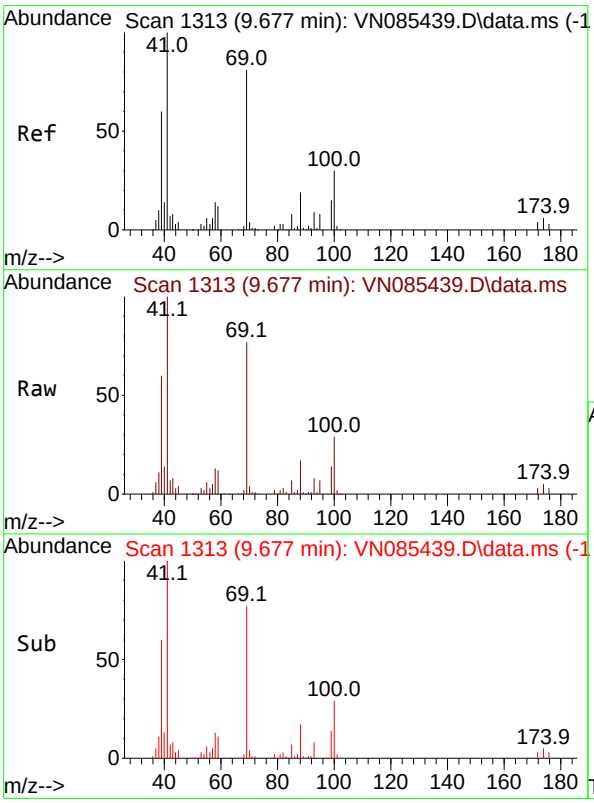
#47
Bromodichloromethane
Concen: 50.867 ug/l
RT: 9.882 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 83 Resp: 189915

Ion	Ratio	Lower	Upper
83	100		
85	64.0	51.2	76.8
127	8.1	6.5	9.7

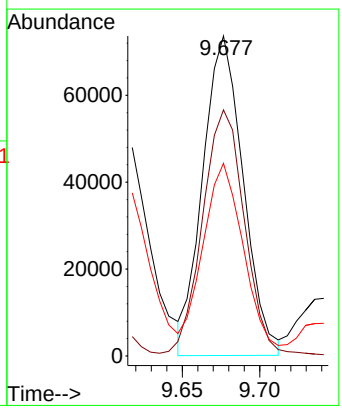


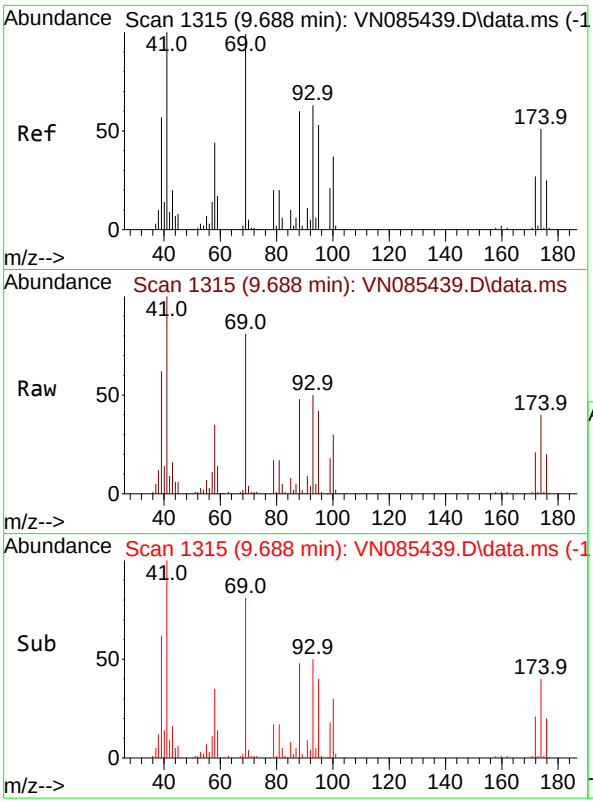


#48
Methyl methacrylate
Concen: 55.385 ug/l
RT: 9.677 min Scan# 1313
Delta R.T. -0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 41 Resp: 133399

Ion	Ratio	Lower	Upper
41	100		
69	80.9	64.7	97.1
39	61.3	49.0	73.6



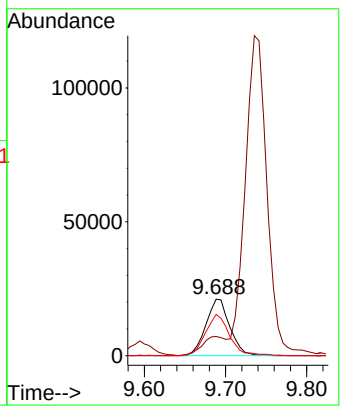


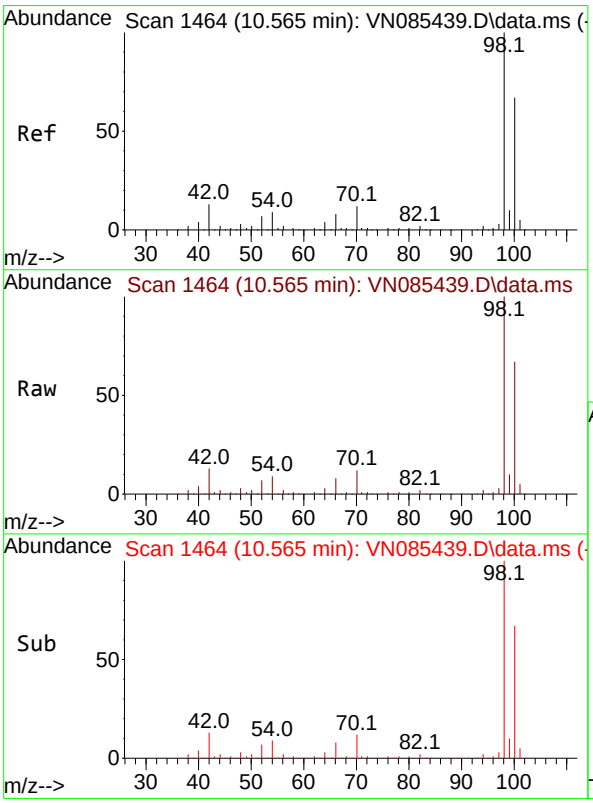
#49
1,4-Dioxane
Concen: 1061.334 ug/l
RT: 9.688 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 88 Resp: 43048

Ion	Ratio	Lower	Upper
88	100		
43	33.2	26.6	39.8
58	74.4	59.5	89.3

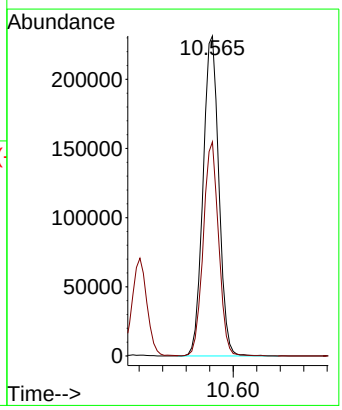


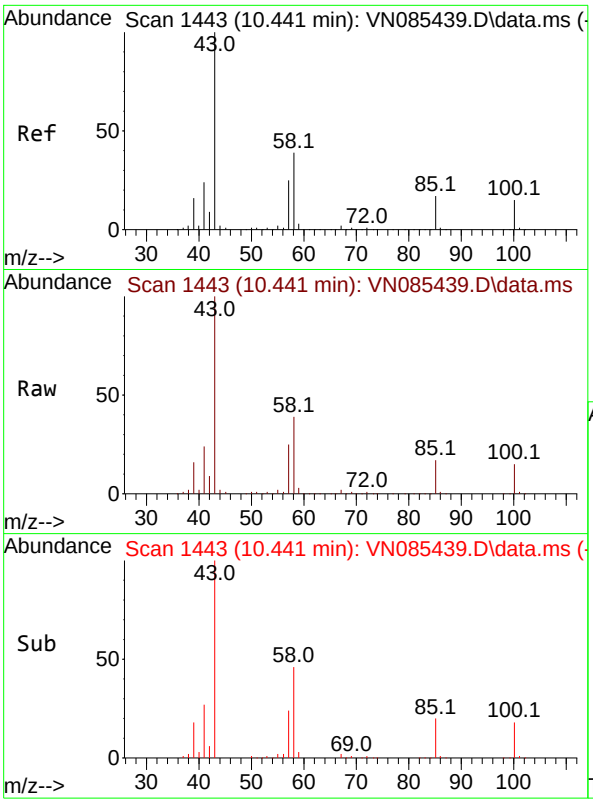


#50
Toluene-d8
Concen: 51.411 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 98 Resp: 430698

Ion	Ratio	Lower	Upper
98	100		
100	65.3	52.2	78.4



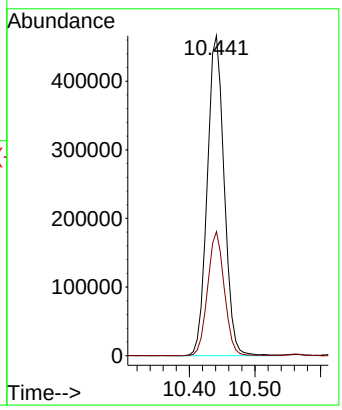


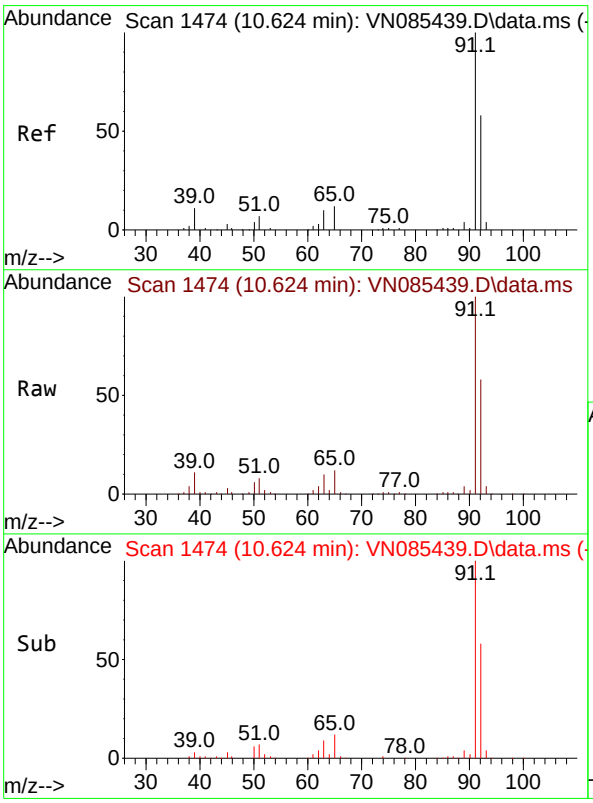
#51
4-Methyl-2-Pentanone
Concen: 269.403 ug/l
RT: 10.441 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 836707

Ion	Ratio	Lower	Upper
43	100		
58	38.1	30.5	45.7

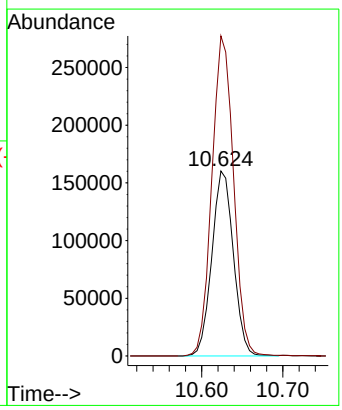


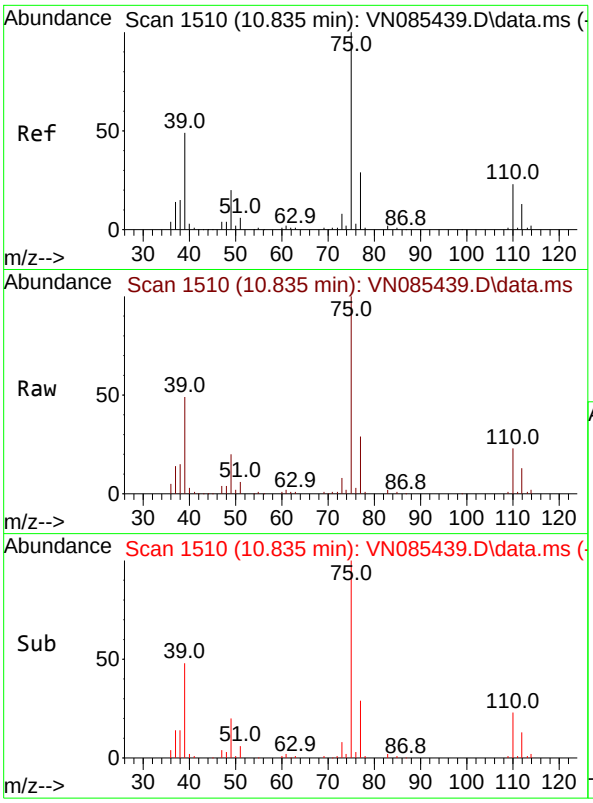


#52
Toluene
Concen: 51.341 ug/l
RT: 10.624 min Scan# 1474
Delta R.T. -0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 92 Resp: 295792

Ion	Ratio	Lower	Upper
92	100		
91	174.0	139.2	208.8



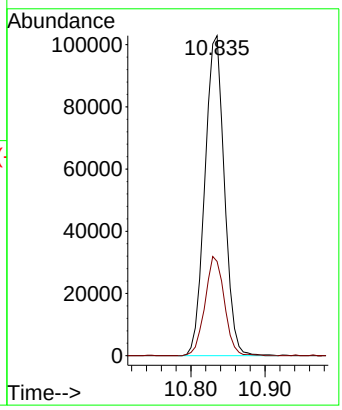


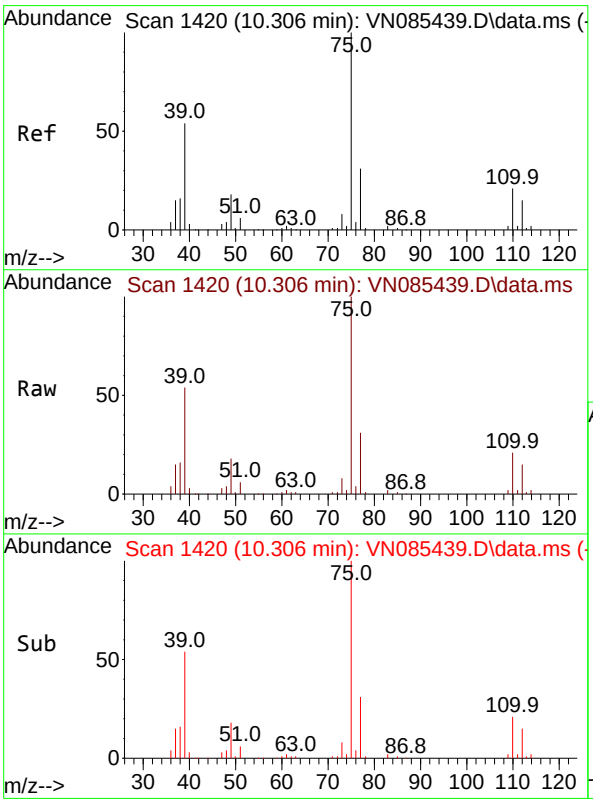
#53
t-1,3-Dichloropropene
Concen: 53.125 ug/l
RT: 10.835 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 75 Resp: 187439

Ion	Ratio	Lower	Upper
75	100		
77	29.4	23.5	35.3

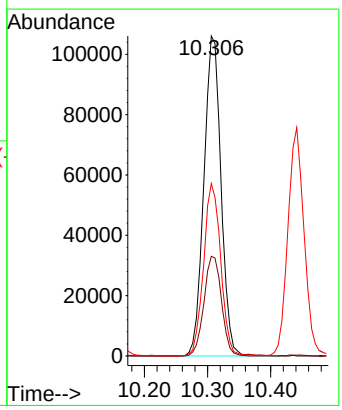


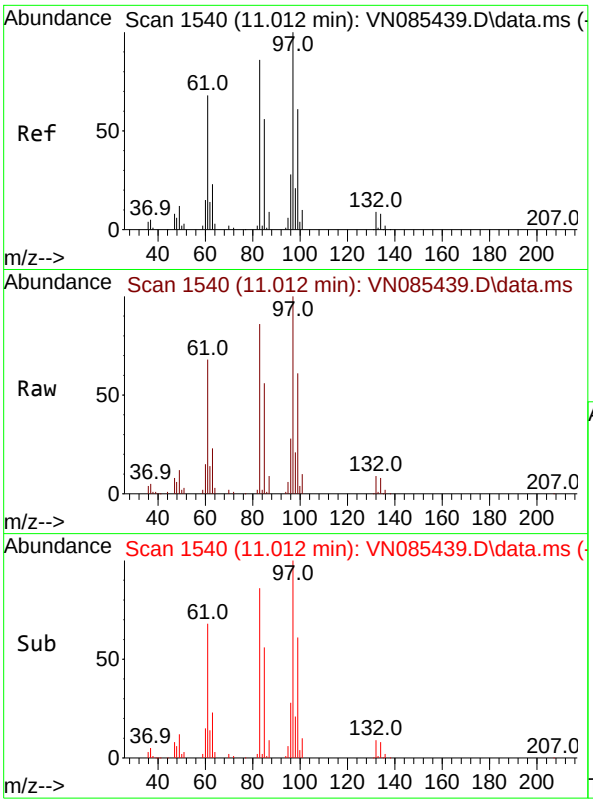


#54
cis-1,3-Dichloropropene
Concen: 53.006 ug/l
RT: 10.306 min Scan# 1420
Delta R.T. -0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 75 Resp: 199771

Ion	Ratio	Lower	Upper
75	100		
77	31.2	25.0	37.4
39	53.9	43.1	64.7



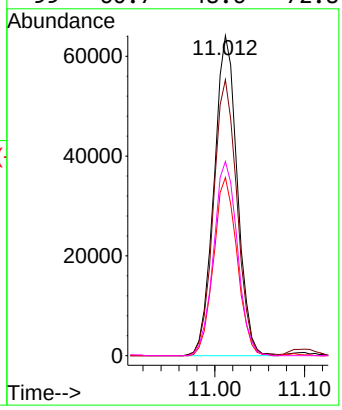


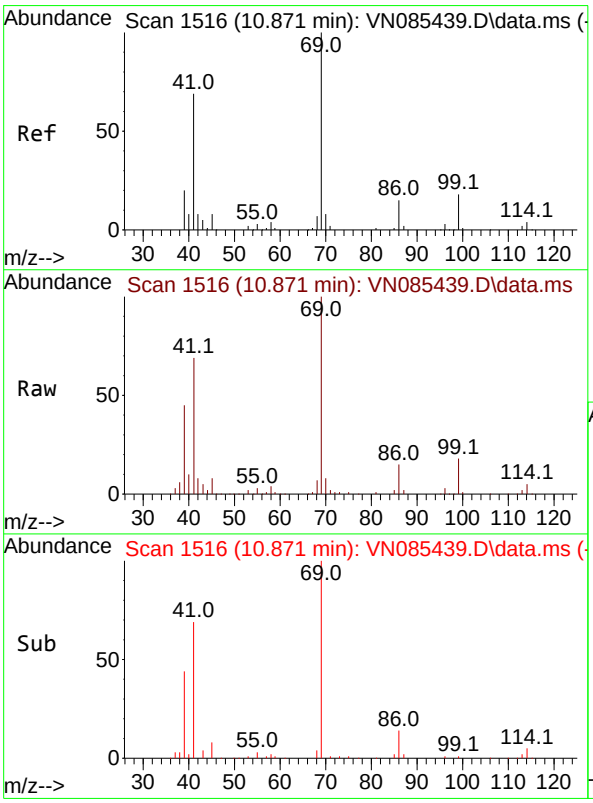
#55
1,1,2-Trichloroethane
Concen: 50.641 ug/l
RT: 11.012 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 97 Resp: 115462

Ion	Ratio	Lower	Upper
97	100		
83	86.3	69.0	103.6
85	55.7	44.6	66.8
99	60.7	48.6	72.8

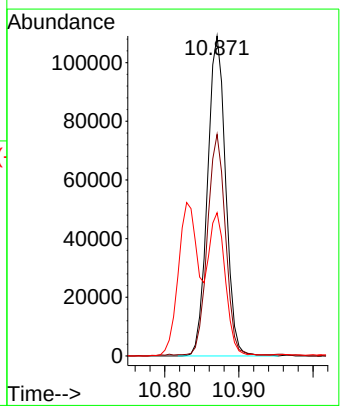


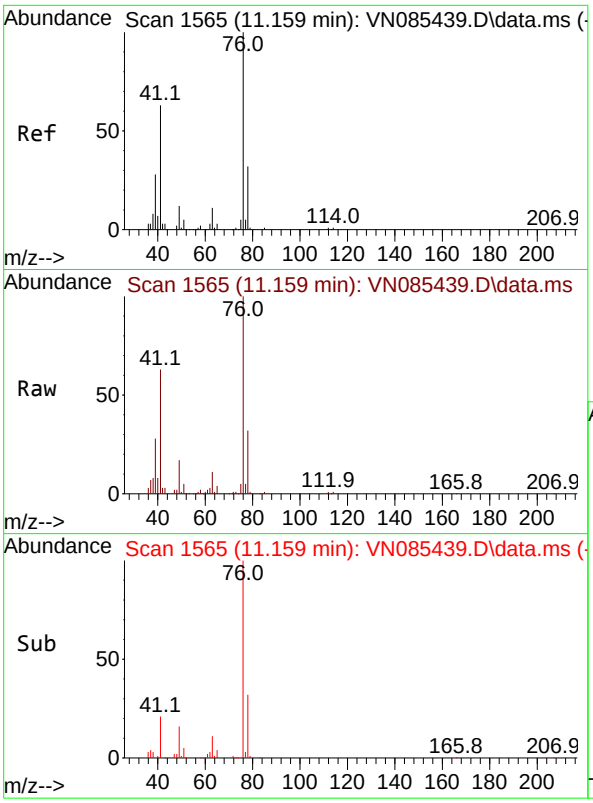


#56
Ethyl methacrylate
Concen: 48.182 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 69 Resp: 184775

Ion	Ratio	Lower	Upper
69	100		
41	68.3	54.6	82.0
39	40.5	32.4	48.6



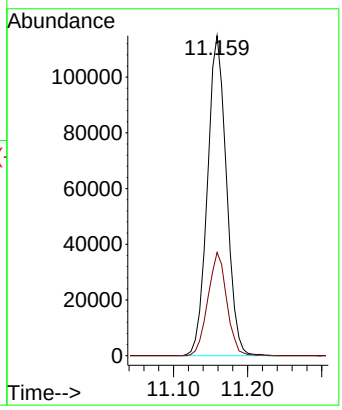


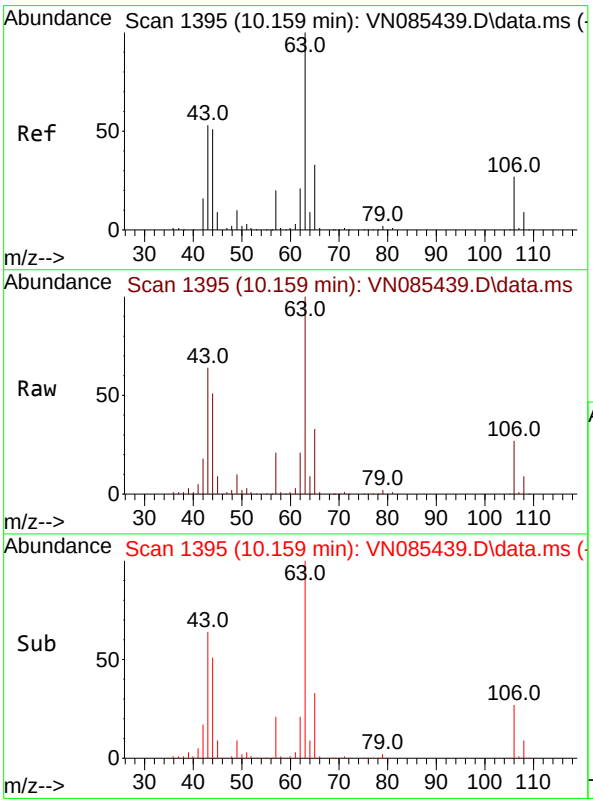
#57
1,3-Dichloropropane
Concen: 51.606 ug/l
RT: 11.159 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 76 Resp: 204590

Ion	Ratio	Lower	Upper
76	100		
78	32.0	25.6	38.4

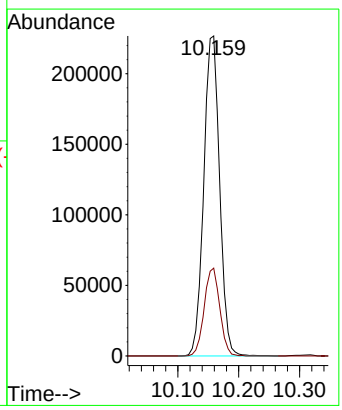


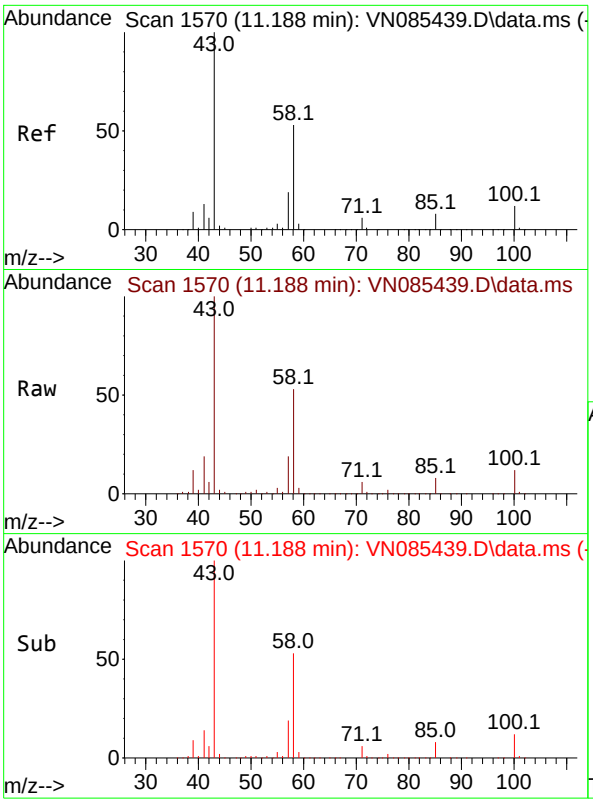


#58
2-Chloroethyl Vinyl ether
Concen: 283.088 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 63 Resp: 409594

Ion	Ratio	Lower	Upper
63	100		
106	27.0	21.6	32.4



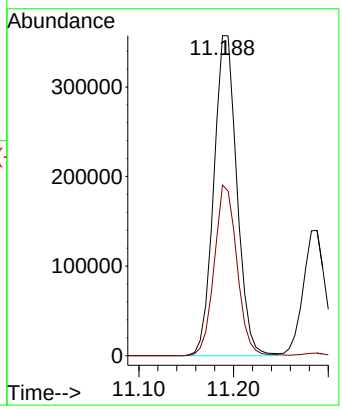


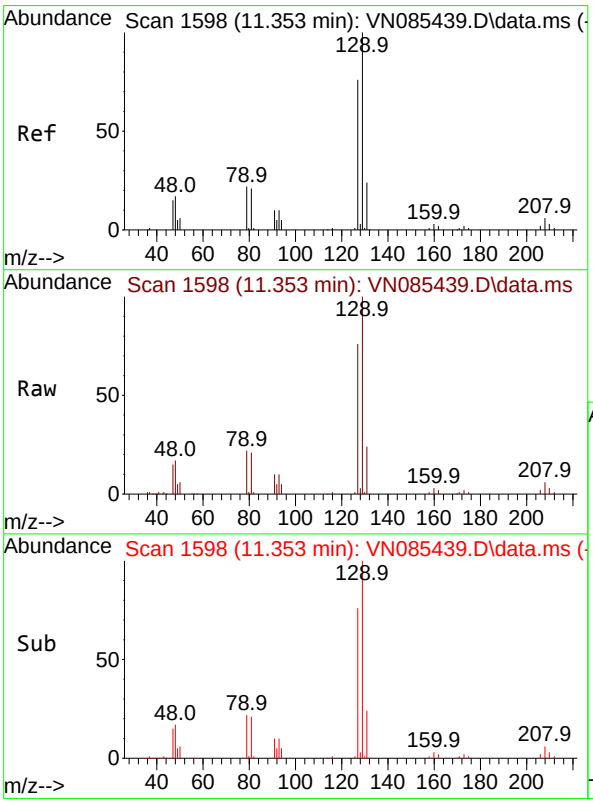
#59
2-Hexanone
Concen: 277.643 ug/l
RT: 11.188 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 606740

Ion	Ratio	Lower	Upper
43	100		
58	52.4	26.2	78.6

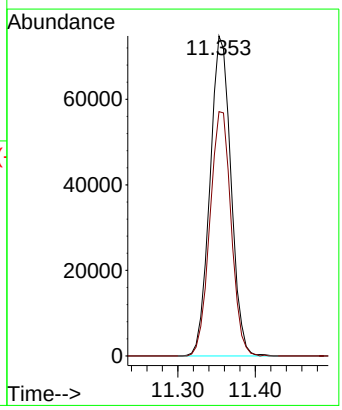


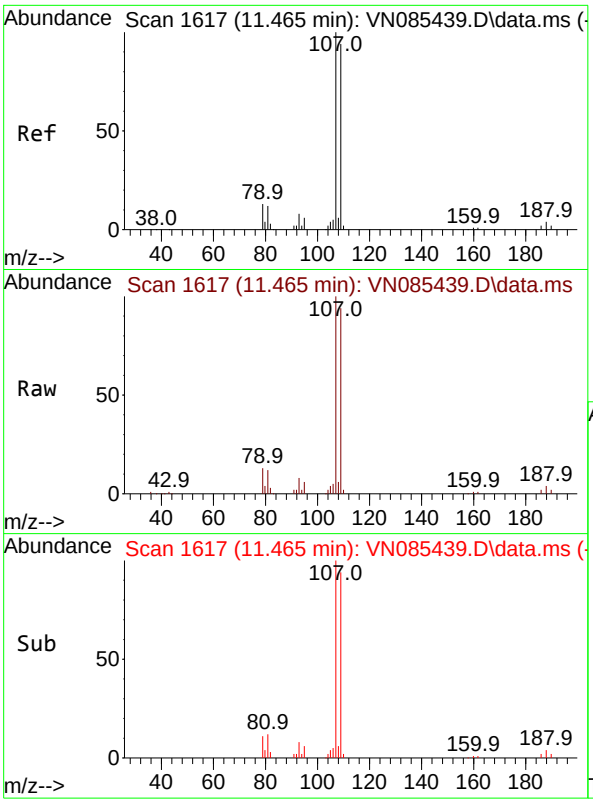


#60
Dibromochloromethane
Concen: 51.116 ug/l
RT: 11.353 min Scan# 1598
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion:129 Resp: 140704

Ion	Ratio	Lower	Upper
129	100		
127	77.2	38.6	115.8



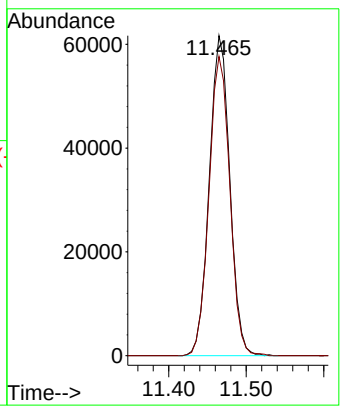


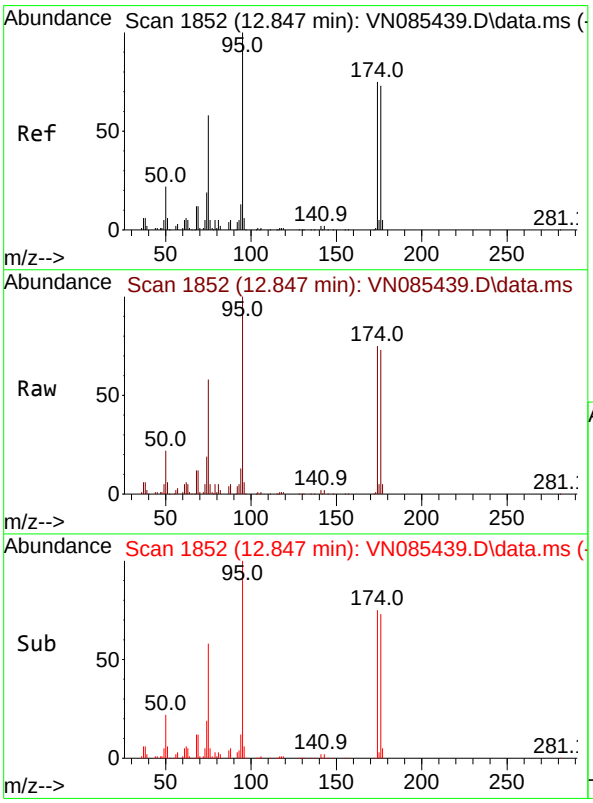
#61
1,2-Dibromoethane
Concen: 50.028 ug/l
RT: 11.465 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion:107 Resp: 113541

Ion	Ratio	Lower	Upper
107	100		
109	94.9	75.9	113.9

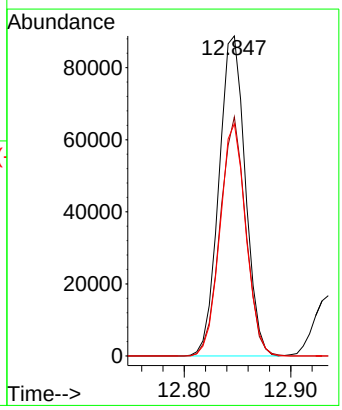


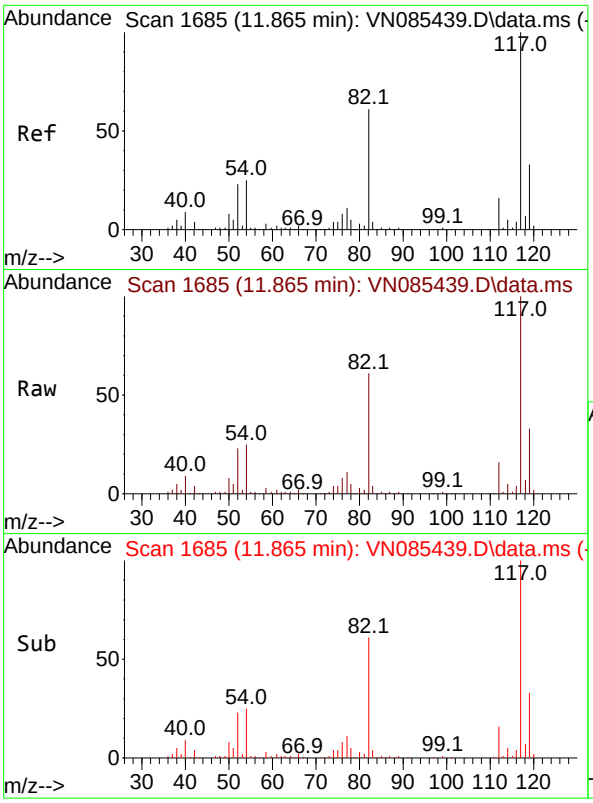


#62
4-Bromofluorobenzene
Concen: 53.239 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 95 Resp: 152568

Ion	Ratio	Lower	Upper
95	100		
174	72.5	0.0	145.0
176	71.2	0.0	142.4



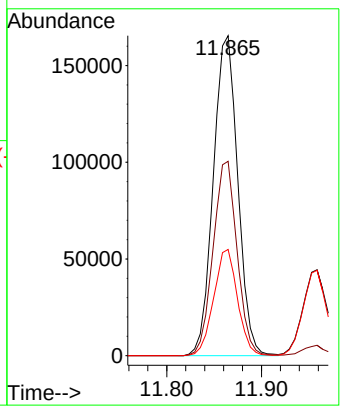


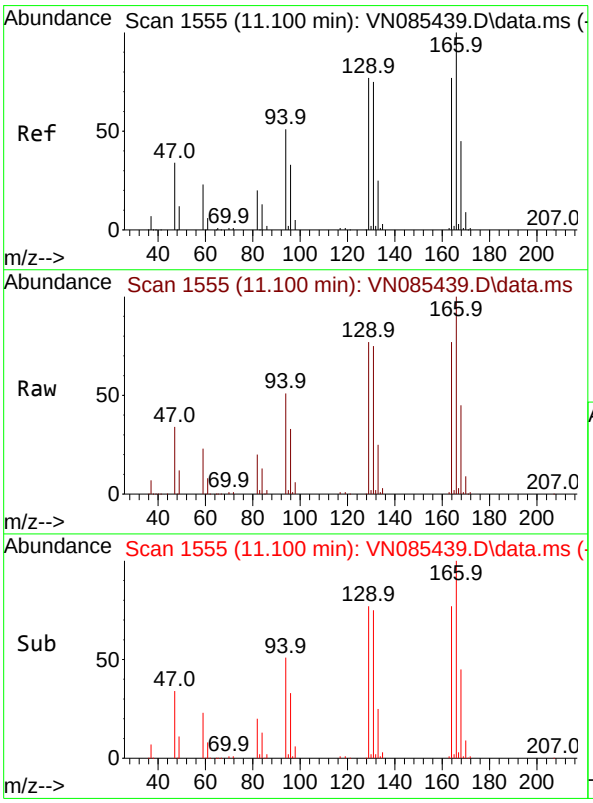
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion:117 Resp: 297366

Ion	Ratio	Lower	Upper
117	100		
82	60.7	48.6	72.8
119	33.2	26.6	39.8

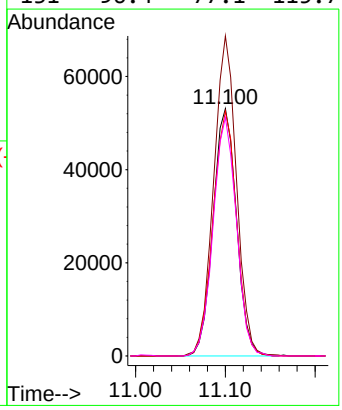


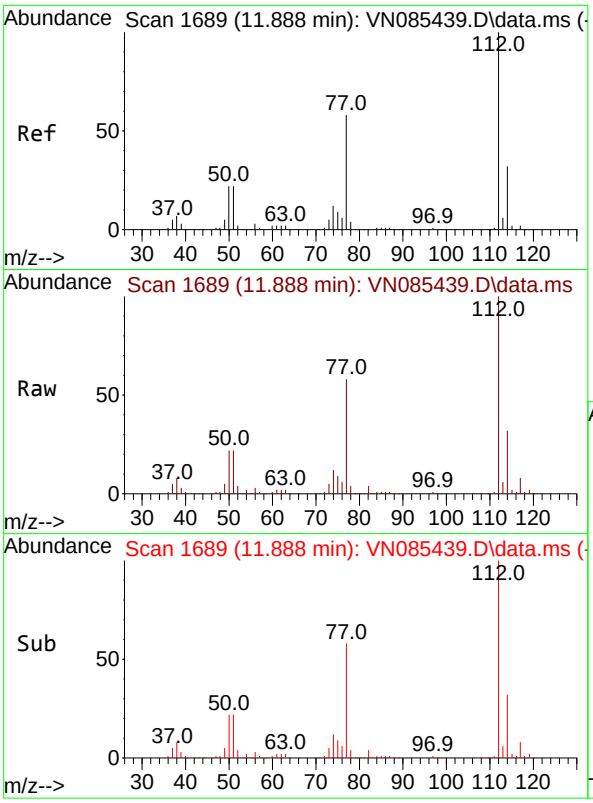


#64
Tetrachloroethene
Concen: 47.295 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion:164 Resp: 95879

Ion	Ratio	Lower	Upper
164	100		
166	129.3	103.4	155.2
129	99.0	79.2	118.8
131	96.4	77.1	115.7



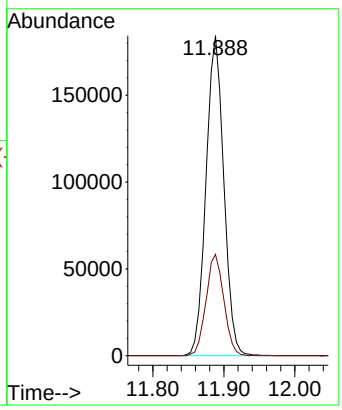


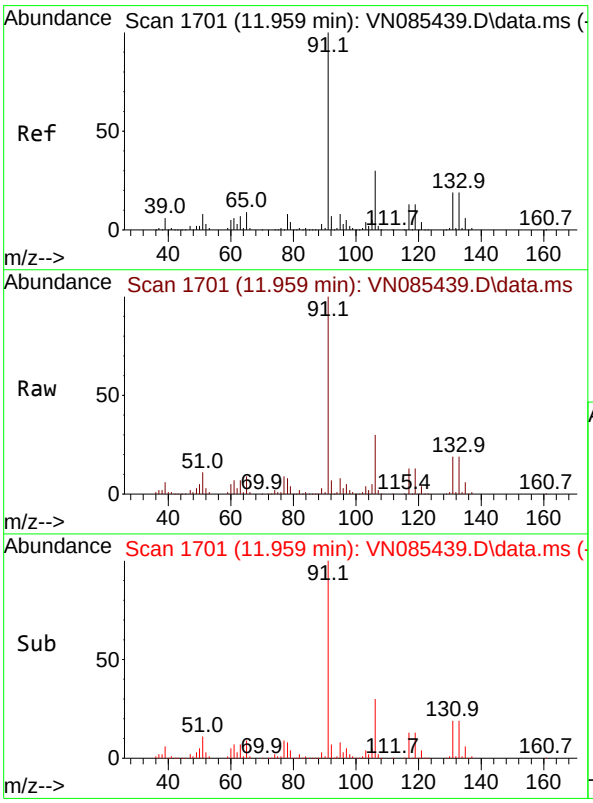
#65
Chlorobenzene
Concen: 49.121 ug/l
RT: 11.888 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion:112 Resp: 319992

Ion	Ratio	Lower	Upper
112	100		
114	31.6	25.3	37.9

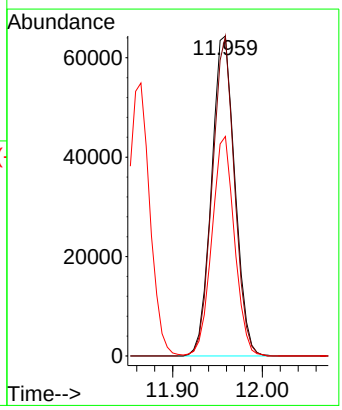


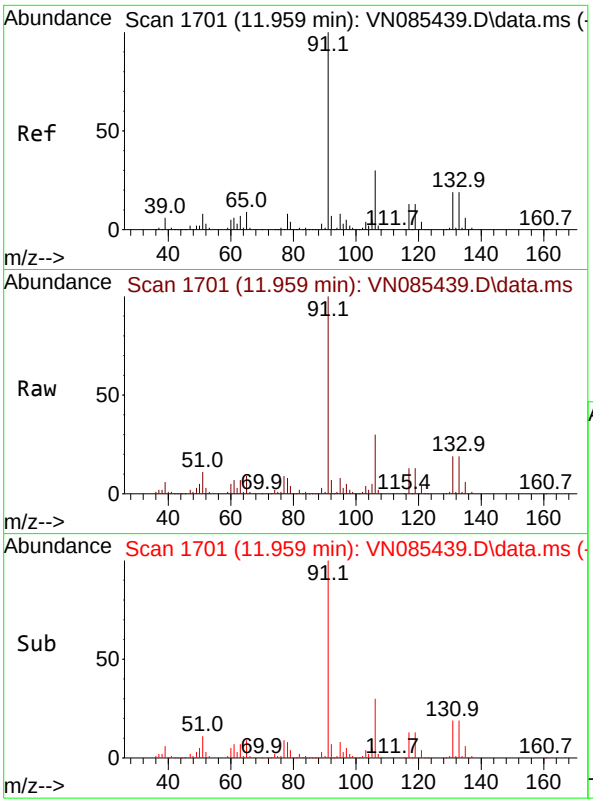


#66
1,1,1,2-Tetrachloroethane
Concen: 48.722 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion:131 Resp: 116488

Ion	Ratio	Lower	Upper
131	100		
133	94.9	47.4	142.3
119	66.3	33.1	99.5



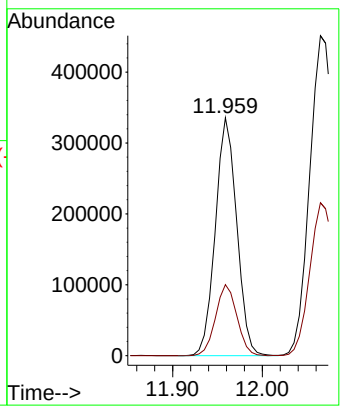


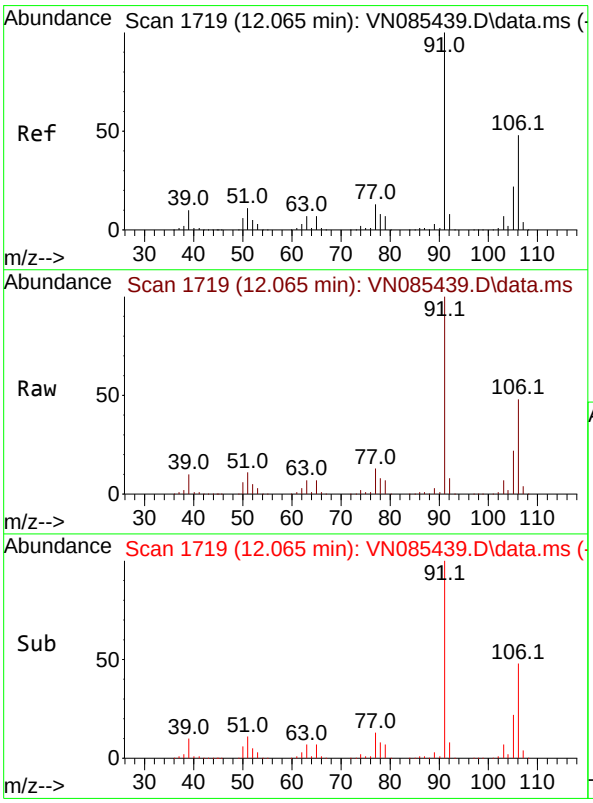
#67
Ethyl Benzene
Concen: 52.339 ug/l
RT: 11.959 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 91 Resp: 555322

Ion	Ratio	Lower	Upper
91	100		
106	29.8	23.8	35.8

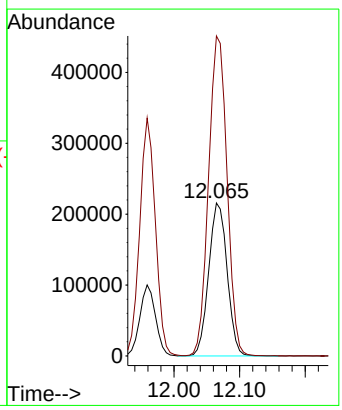


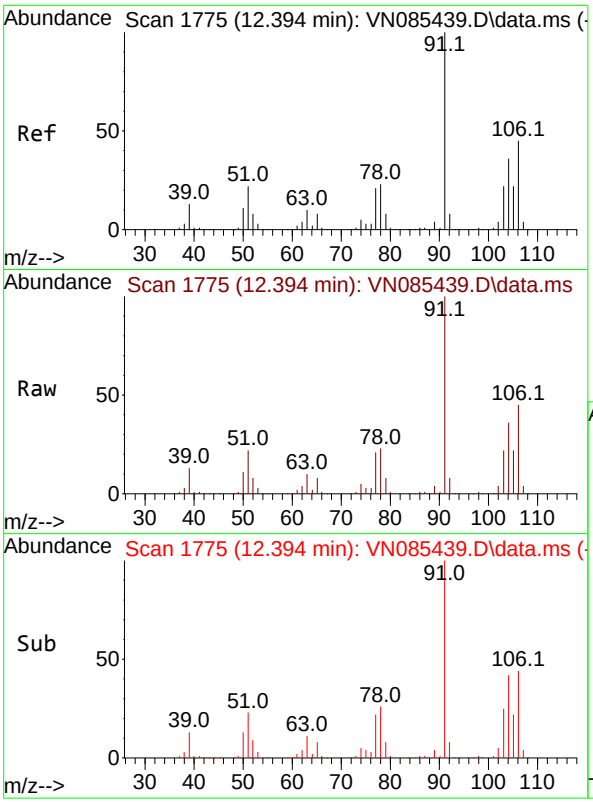


#68
m/p-Xylenes
Concen: 107.286 ug/l
RT: 12.065 min Scan# 1719
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion:106 Resp: 420702

Ion	Ratio	Lower	Upper
106	100		
91	209.6	167.7	251.5



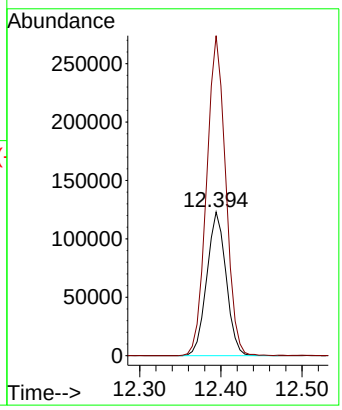


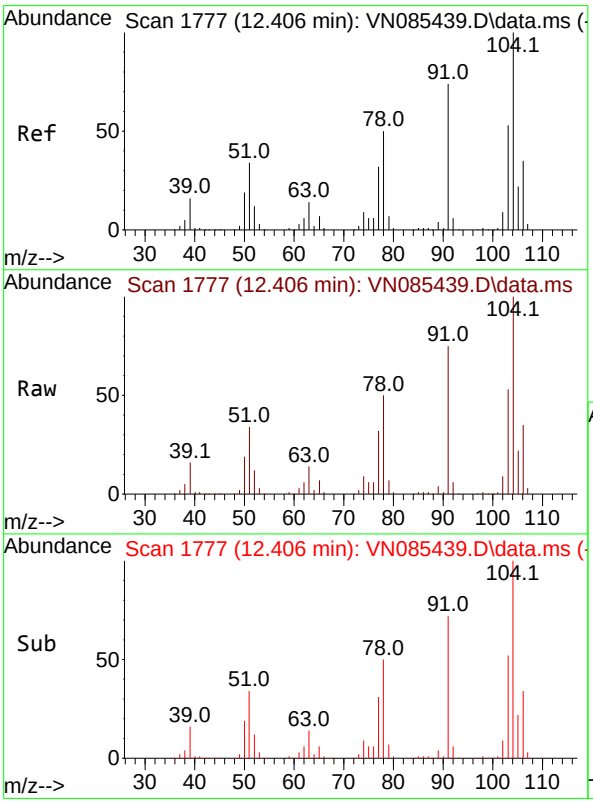
#69
o-Xylene
Concen: 54.062 ug/l
RT: 12.394 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion:106 Resp: 202597

Ion	Ratio	Lower	Upper
106	100		
91	220.8	110.4	331.2

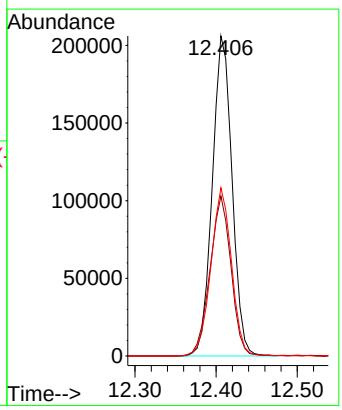


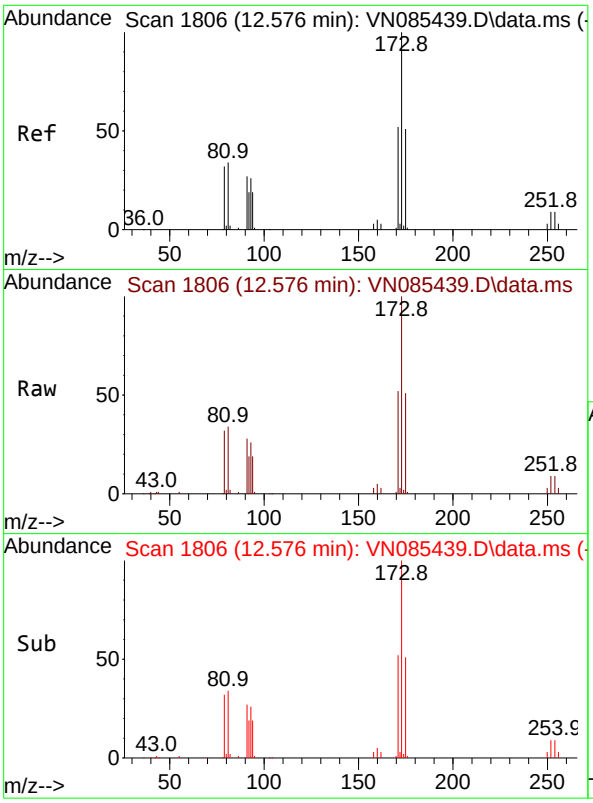


#70
Styrene
Concen: 56.227 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion:104 Resp: 348720

Ion	Ratio	Lower	Upper
104	100		
78	53.1	42.5	63.7
103	54.8	43.8	65.8



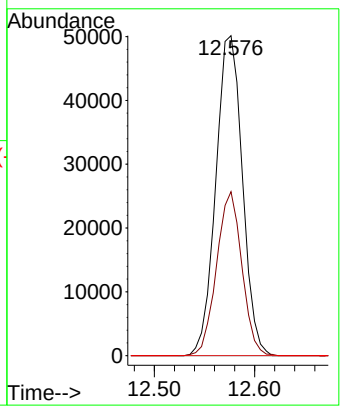


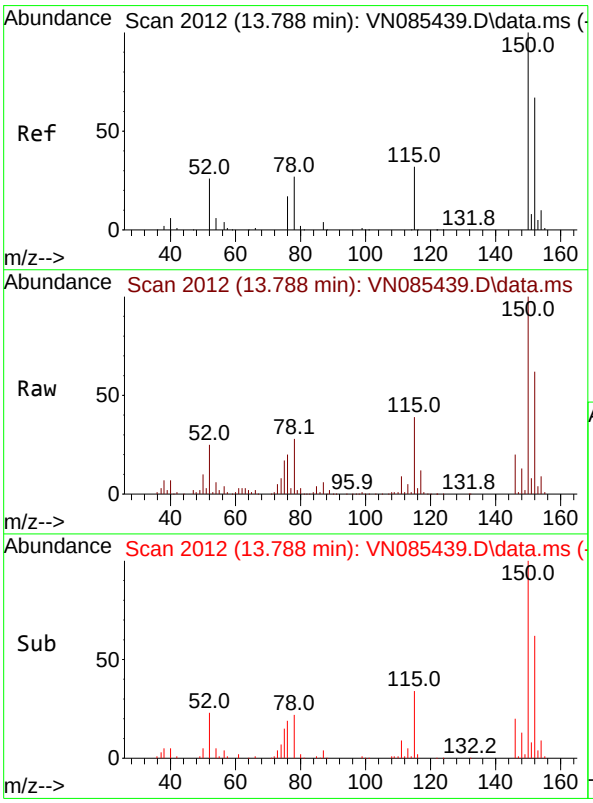
#71
Bromoform
Concen: 53.993 ug/l
RT: 12.576 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion:173 Resp: 92366

Ion	Ratio	Lower	Upper
173	100		
175	48.8	24.4	73.2
254	0.0	0.0	0.0

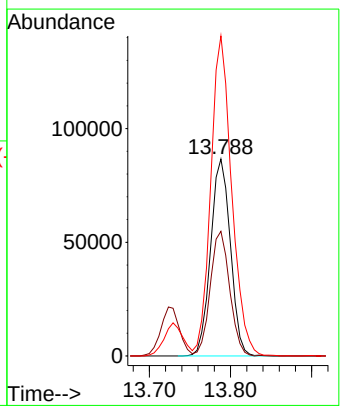


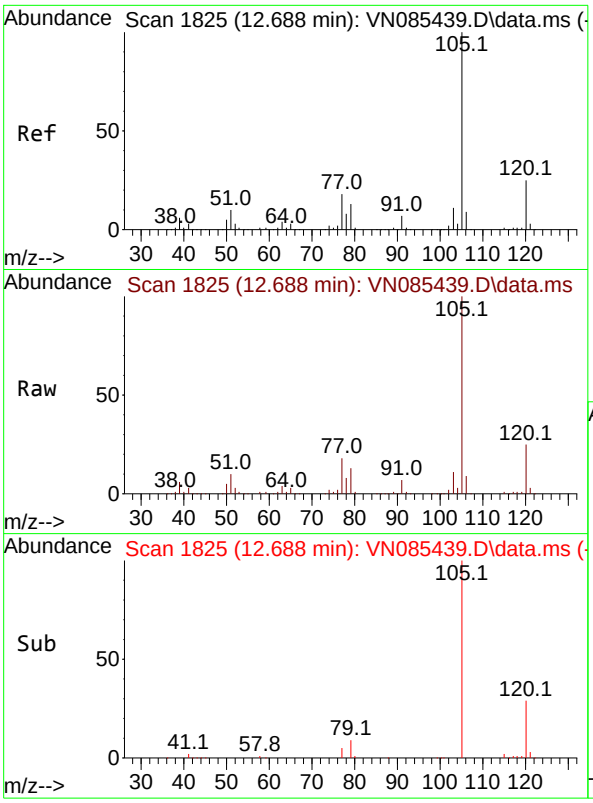


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion:152 Resp: 146624

Ion	Ratio	Lower	Upper
152	100		
115	62.2	31.1	93.3
150	171.8	0.0	343.6



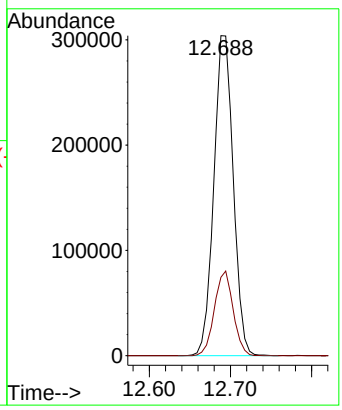


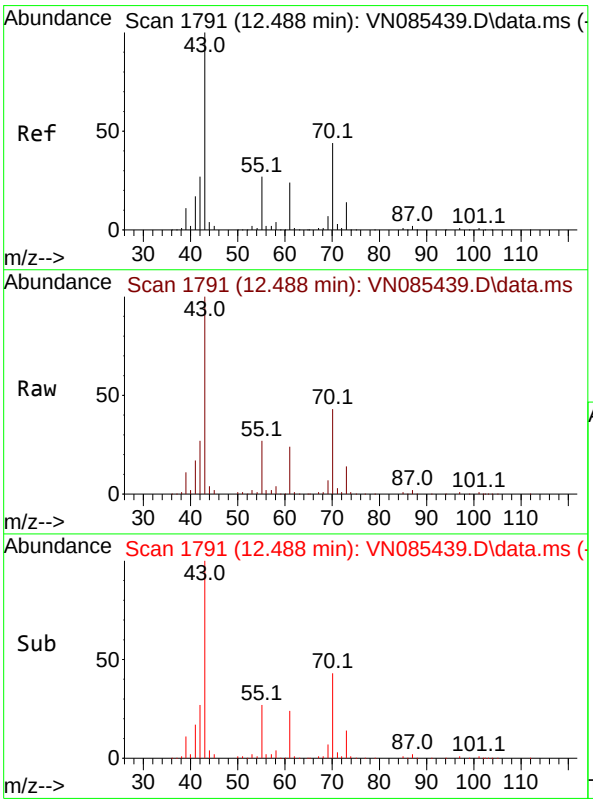
#73
Isopropylbenzene
Concen: 51.094 ug/l
RT: 12.688 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion:105 Resp: 505619

Ion	Ratio	Lower	Upper
105	100		
120	25.5	12.8	38.3

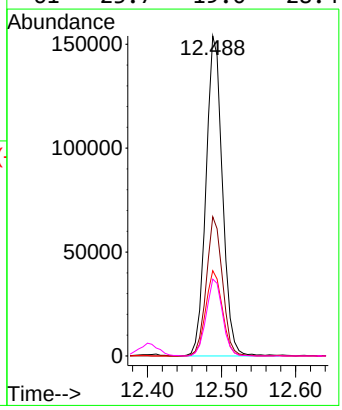


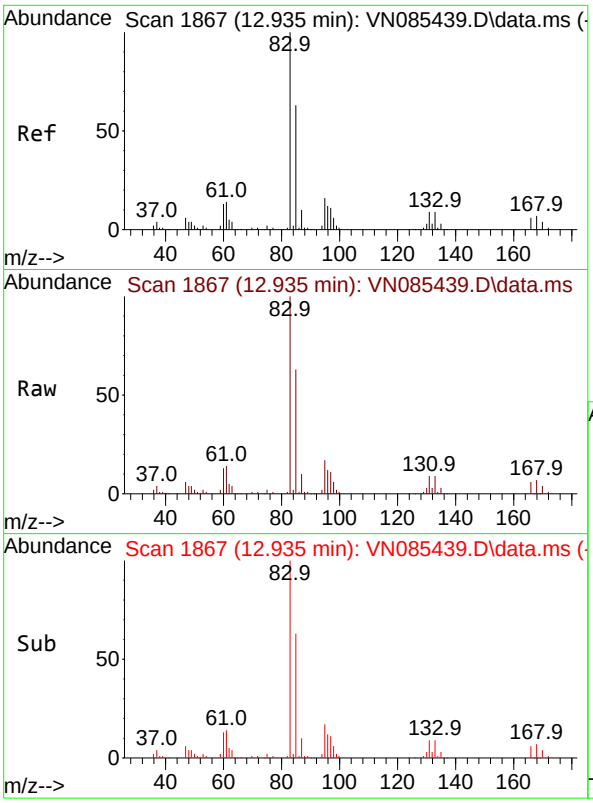


#74
N-amyl acetate
Concen: 53.478 ug/l
RT: 12.488 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 43 Resp: 237870

Ion	Ratio	Lower	Upper
43	100		
70	42.5	34.0	51.0
55	26.8	21.4	32.2
61	23.7	19.0	28.4



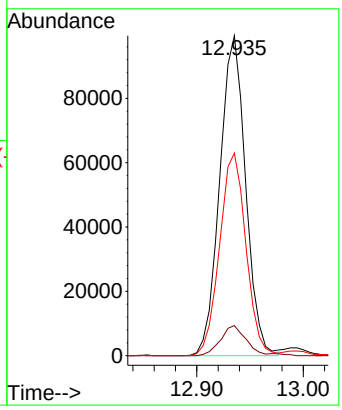


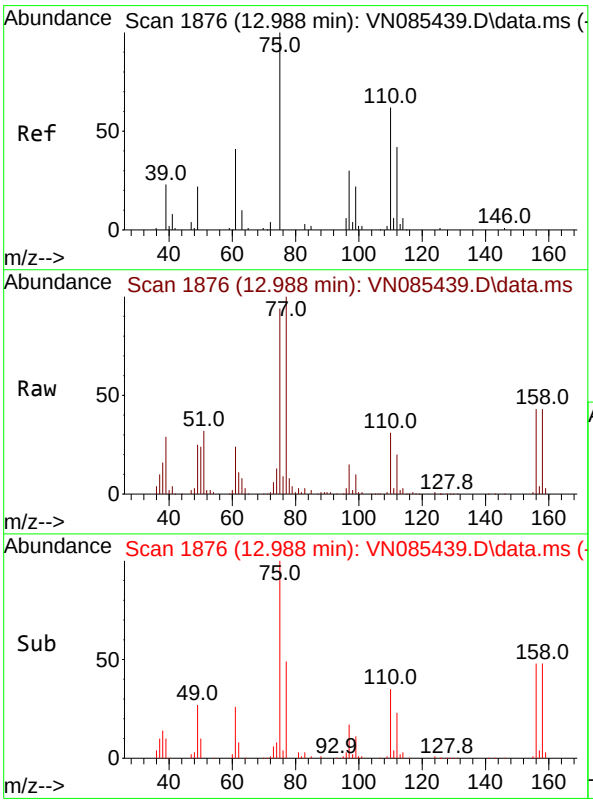
#75
1,1,2,2-Tetrachloroethane
Concen: 48.019 ug/l
RT: 12.935 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 83 Resp: 167856

Ion	Ratio	Lower	Upper
83	100		
131	9.6	4.8	14.4
85	64.4	32.2	96.6

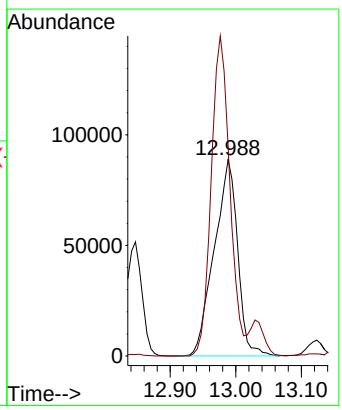


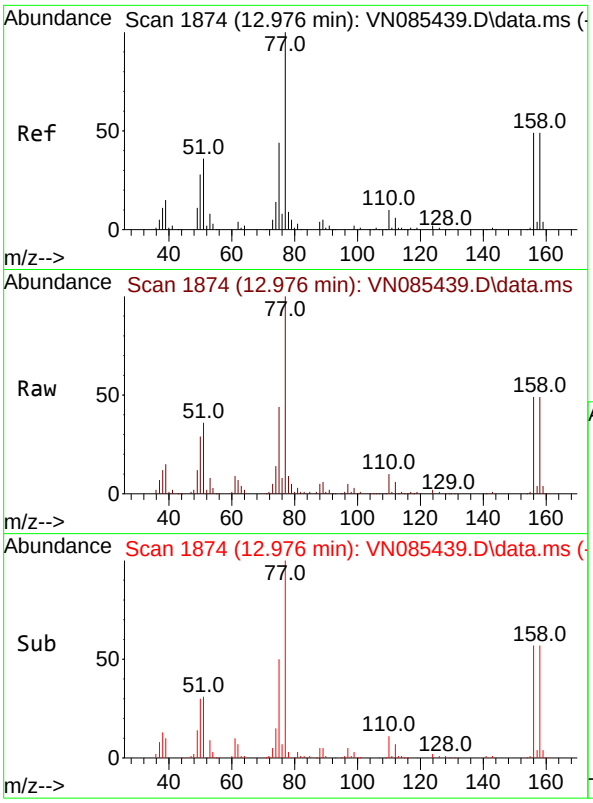


#76
1,2,3-Trichloropropane
Concen: 73.773 ug/l
RT: 12.988 min Scan# 1876
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 75 Resp: 219507

Ion	Ratio	Lower	Upper
75	100		
77	130.9	109.7	329.2



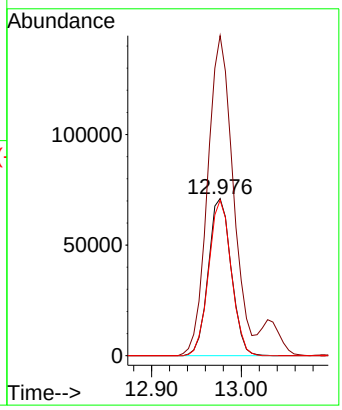


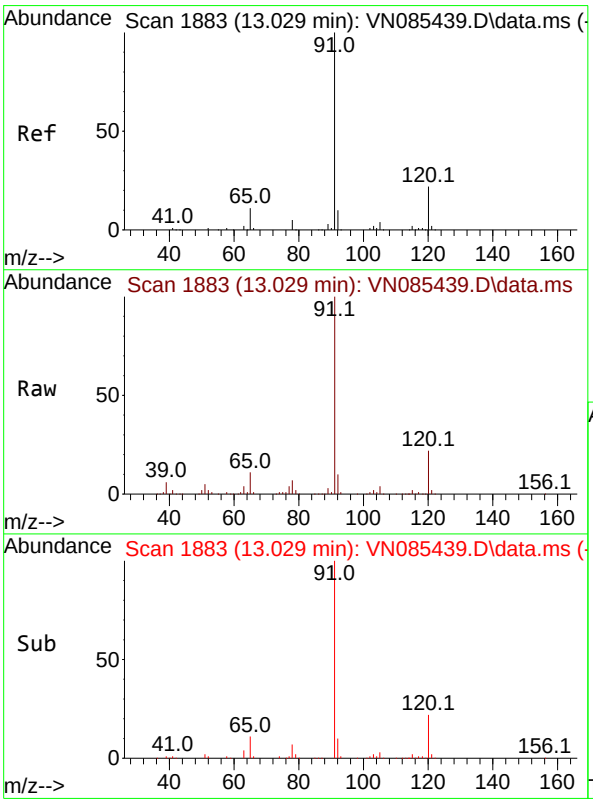
#77
Bromobenzene
Concen: 48.657 ug/l
RT: 12.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion:156 Resp: 125800

Ion	Ratio	Lower	Upper
156	100		
77	228.3	114.1	342.4
158	97.9	48.9	146.8

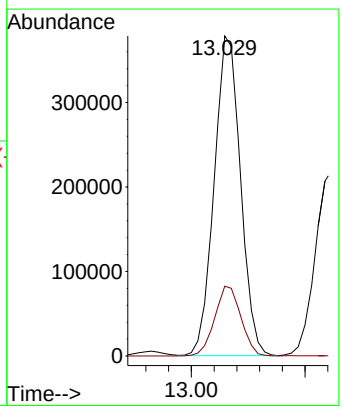


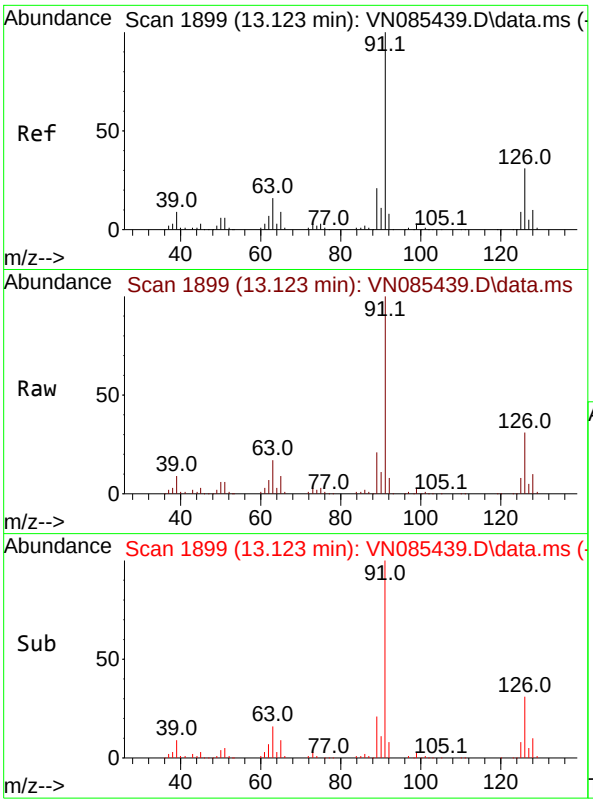


#78
n-propylbenzene
Concen: 51.986 ug/l
RT: 13.029 min Scan# 1883
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 91 Resp: 609022

Ion	Ratio	Lower	Upper
91	100		
120	21.7	10.9	32.6



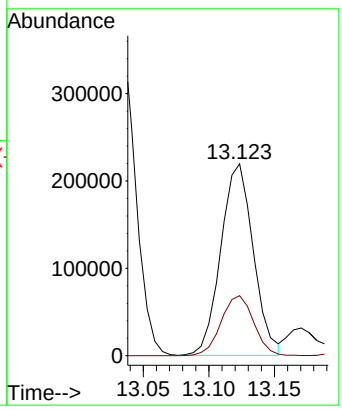


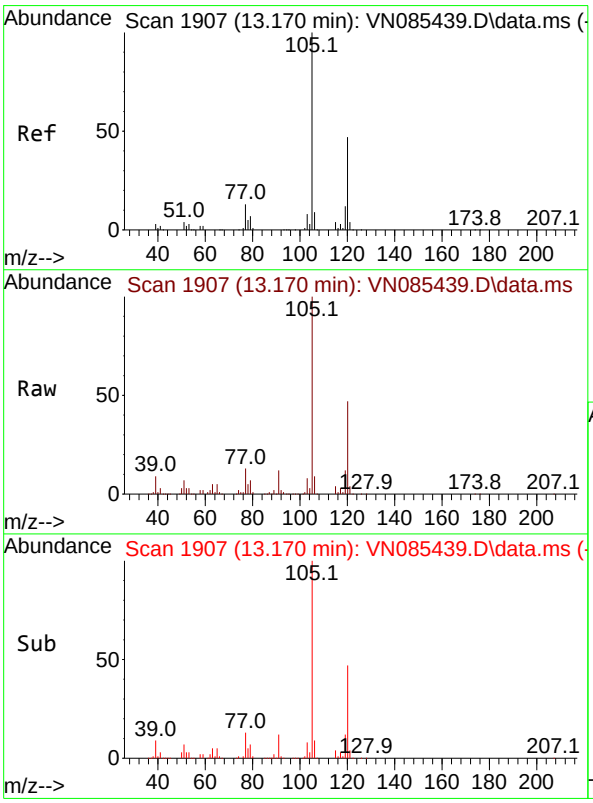
#79
2-Chlorotoluene
Concen: 49.985 ug/l
RT: 13.123 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 91 Resp: 378981

Ion	Ratio	Lower	Upper
91	100		
126	31.4	15.7	47.1

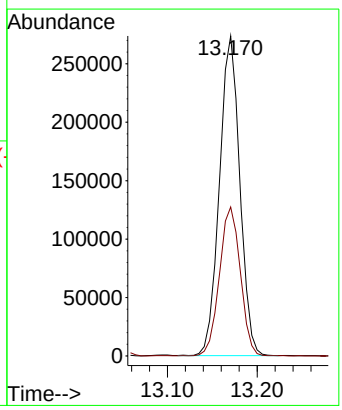


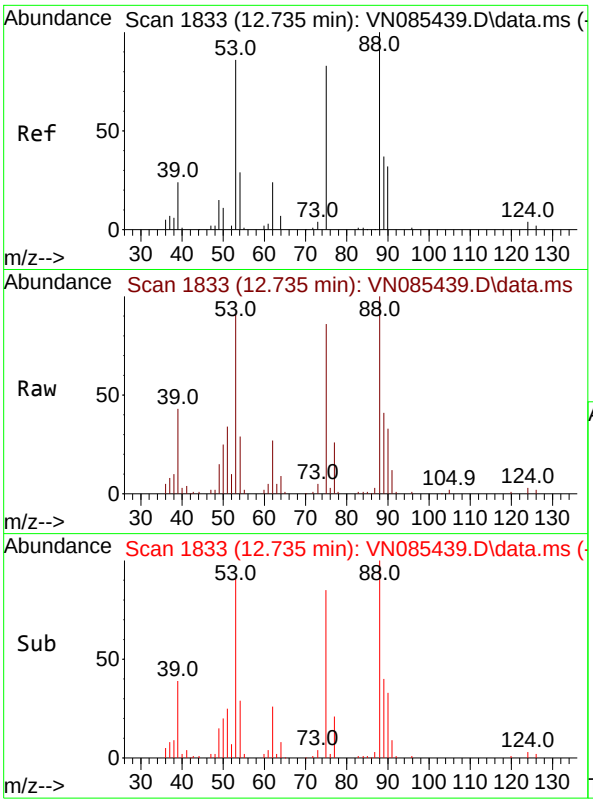


#80
1,3,5-Trimethylbenzene
Concen: 52.730 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion:105 Resp: 431021

Ion	Ratio	Lower	Upper
105	100		
120	47.8	23.9	71.7



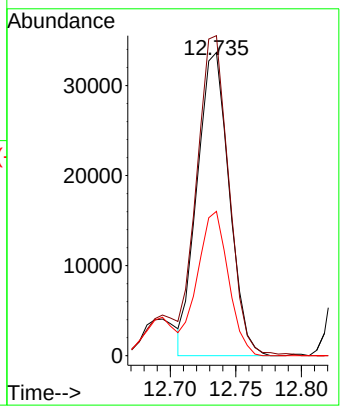


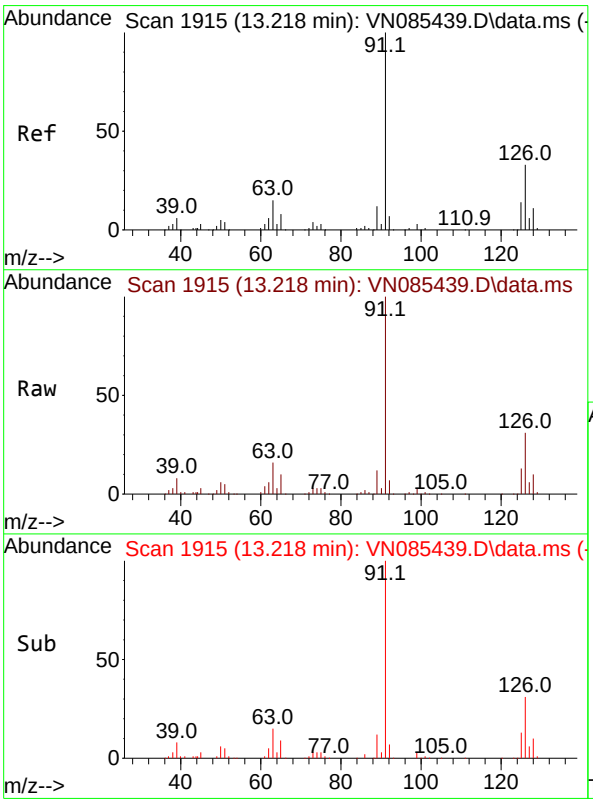
#81
trans-1,4-Dichloro-2-butene
Concen: 51.914 ug/l
RT: 12.735 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 75 Resp: 57184

Ion	Ratio	Lower	Upper
75	100		
53	119.5	95.6	143.4
89	46.3	37.0	55.6

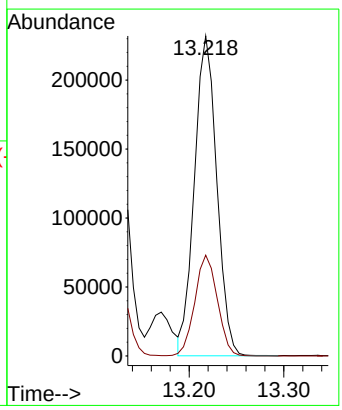


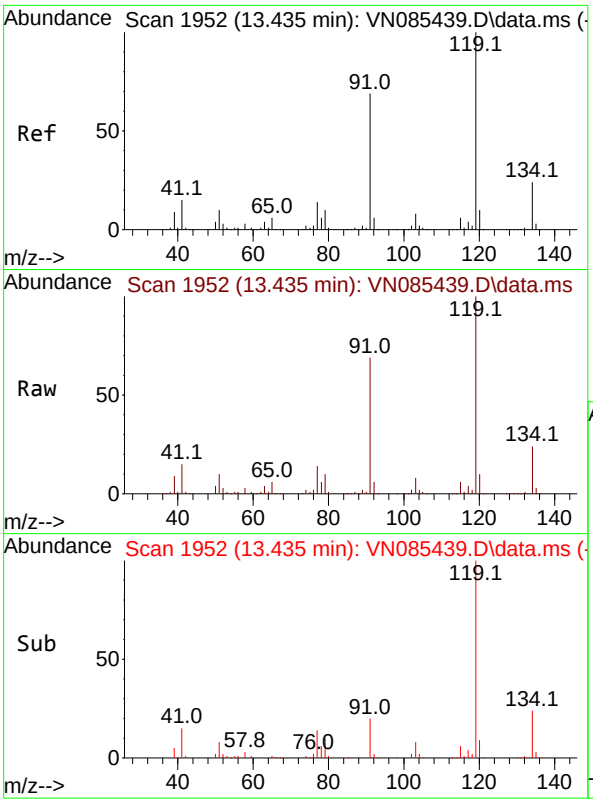


#82
4-Chlorotoluene
Concen: 50.273 ug/l
RT: 13.218 min Scan# 1915
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 91 Resp: 379524

Ion	Ratio	Lower	Upper
91	100		
126	31.8	15.9	47.7



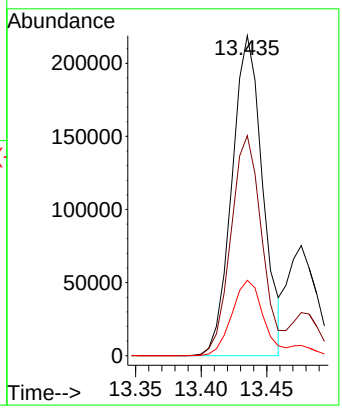


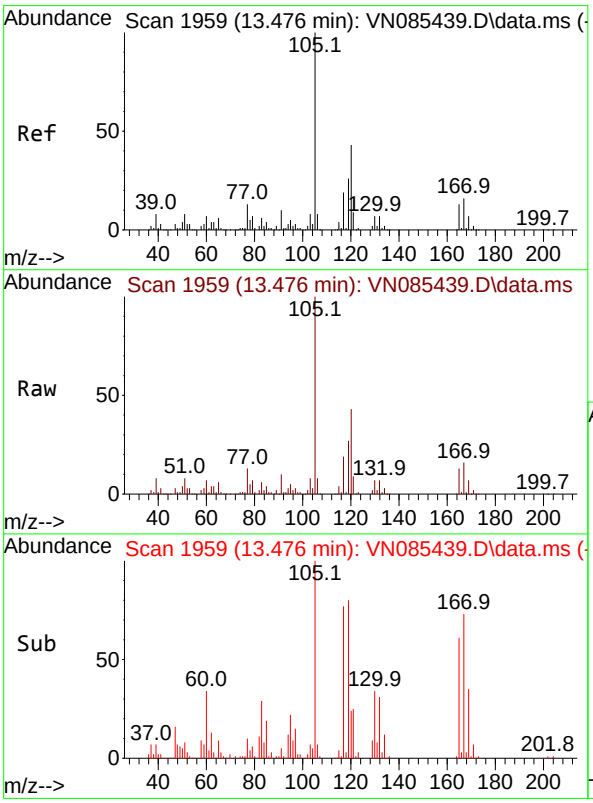
#83
tert-Butylbenzene
Concen: 52.090 ug/l
RT: 13.435 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion:119 Resp: 357563

Ion	Ratio	Lower	Upper
119	100		
91	70.2	35.1	105.3
134	24.1	12.0	36.1

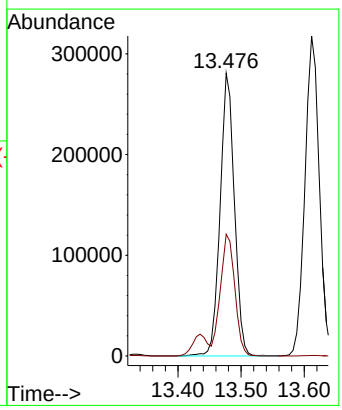


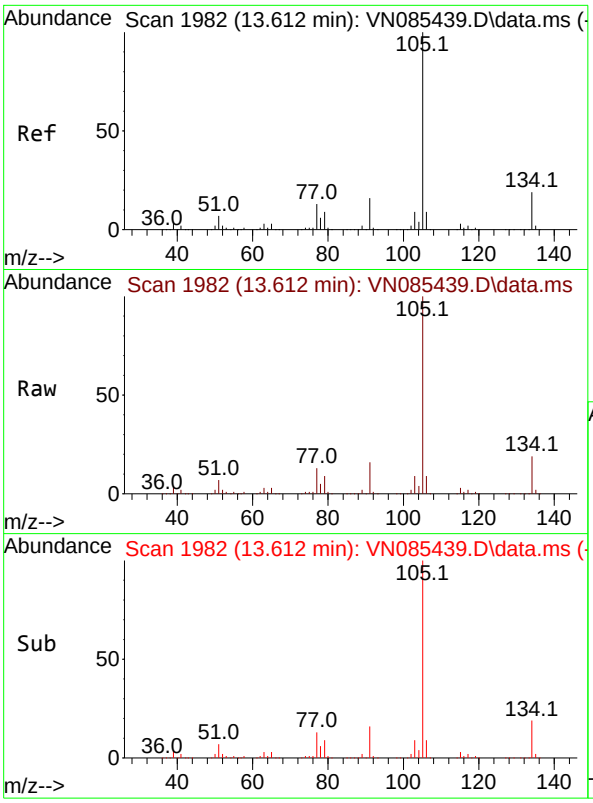


#84
1,2,4-Trimethylbenzene
Concen: 54.275 ug/l
RT: 13.476 min Scan# 1959
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion:105 Resp: 442175

Ion	Ratio	Lower	Upper
105	100		
120	43.3	21.6	65.0



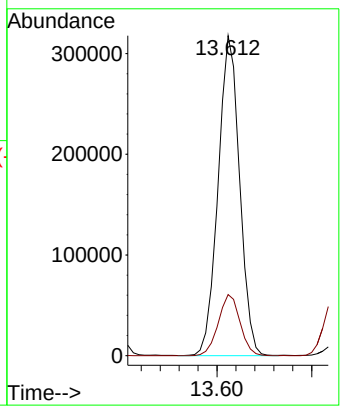


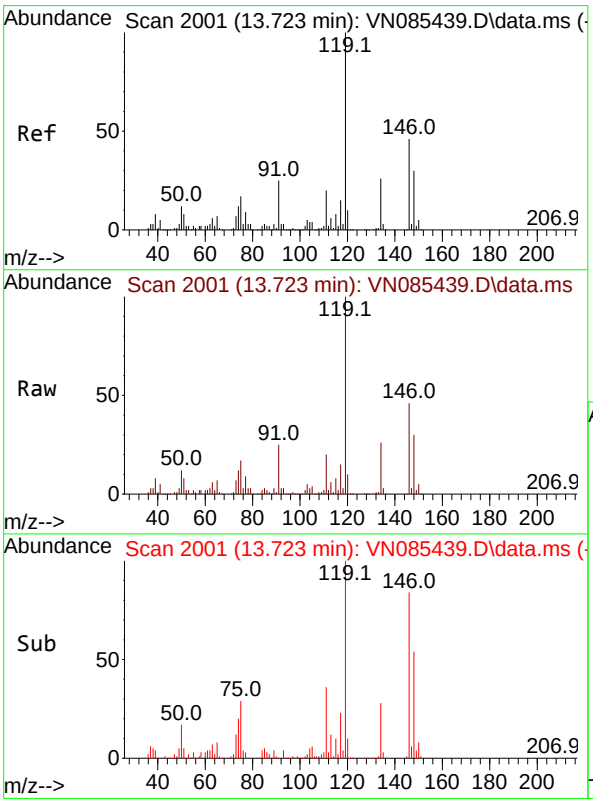
#85
sec-Butylbenzene
Concen: 52.719 ug/l
RT: 13.612 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion:105 Resp: 501561

Ion	Ratio	Lower	Upper
105	100		
134	19.3	9.7	28.9

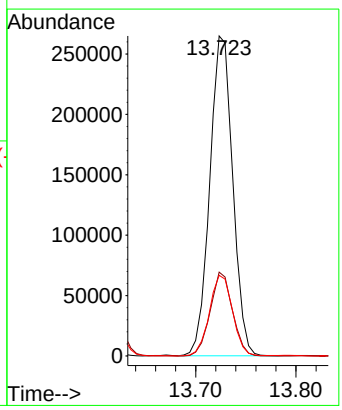


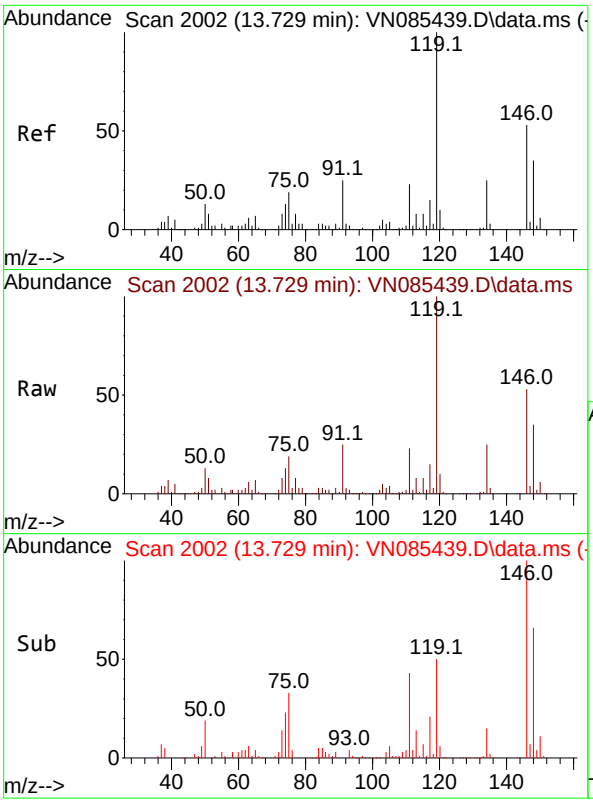


#86
p-Isopropyltoluene
Concen: 49.240 ug/l
RT: 13.723 min Scan# 2001
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion:119 Resp: 421052

Ion	Ratio	Lower	Upper
119	100		
134	25.3	12.7	38.0
91	25.4	12.7	38.1



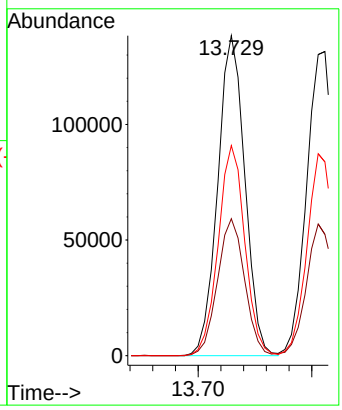


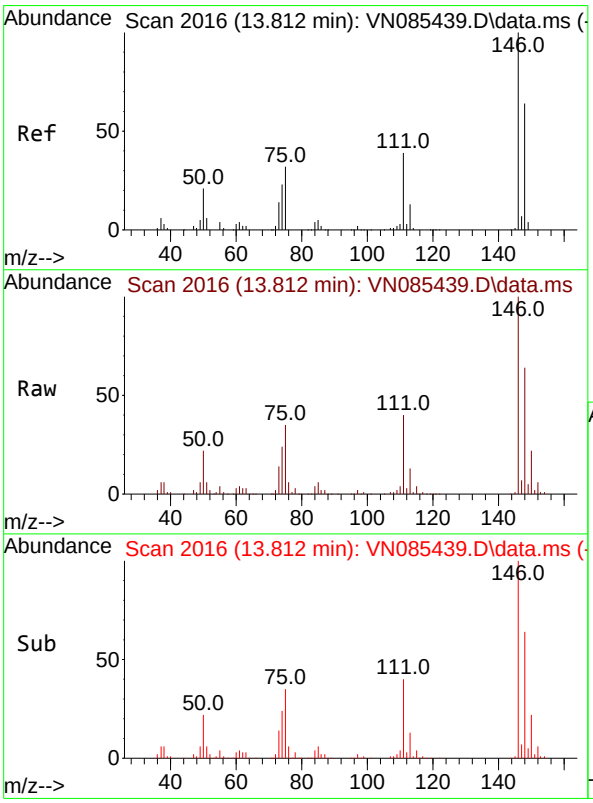
#87
1,3-Dichlorobenzene
Concen: 48.204 ug/l
RT: 13.729 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion:146 Resp: 229518

Ion	Ratio	Lower	Upper
146	100		
111	42.9	21.4	64.3
148	64.6	32.3	96.9

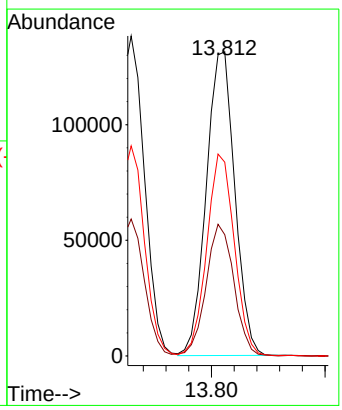


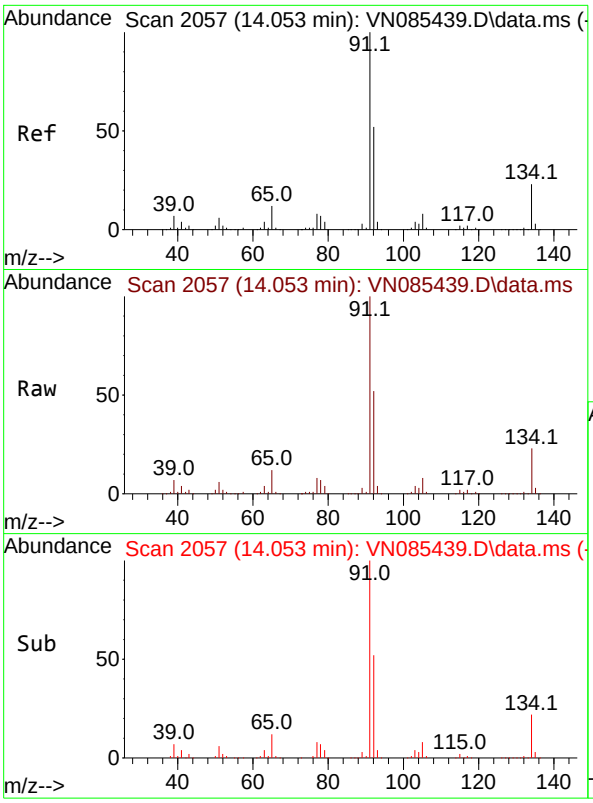


#88
1,4-Dichlorobenzene
Concen: 46.416 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion:146 Resp: 229084

Ion	Ratio	Lower	Upper
146	100		
111	42.5	21.3	63.7
148	64.7	32.4	97.0



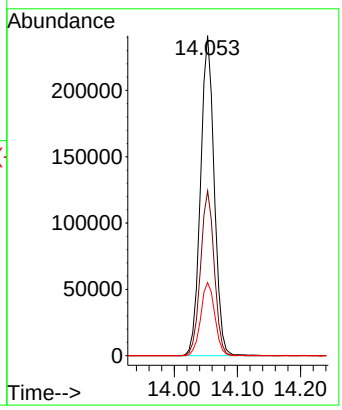


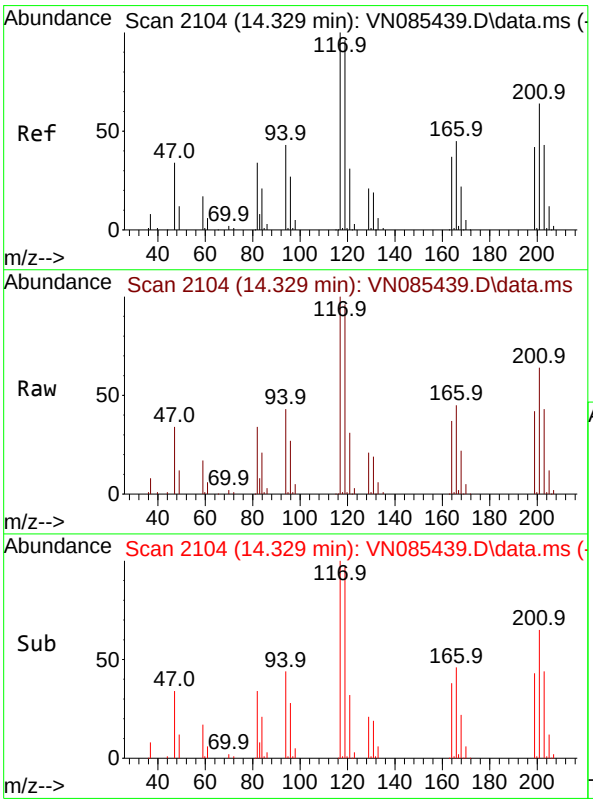
#89
n-Butylbenzene
Concen: 53.348 ug/l
RT: 14.053 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 91 Resp: 364111

Ion	Ratio	Lower	Upper
91	100		
92	51.5	25.8	77.3
134	23.4	11.7	35.1

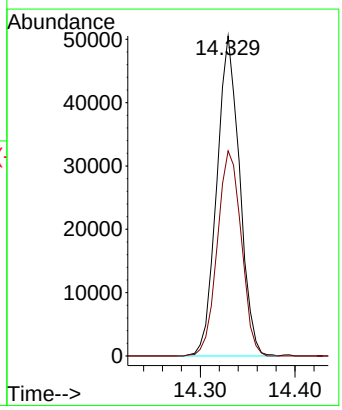


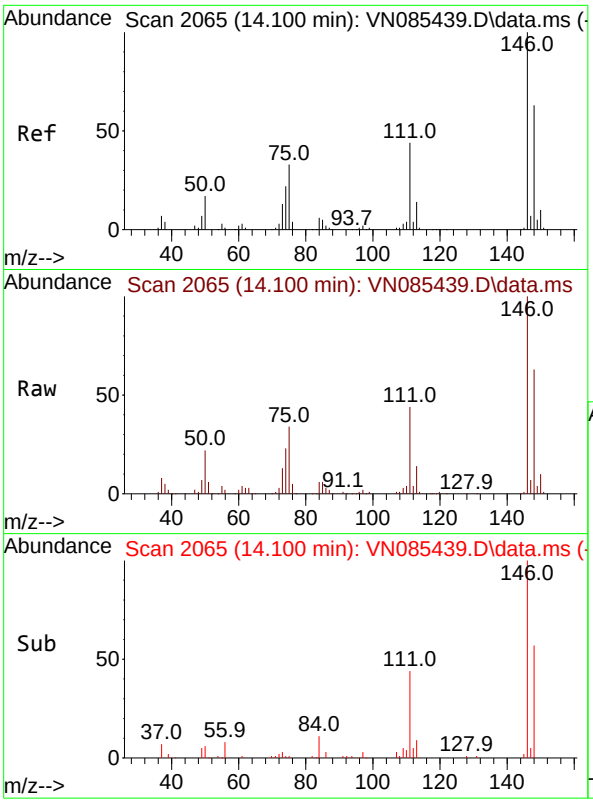


#90
Hexachloroethane
Concen: 46.712 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion:117 Resp: 84602

Ion	Ratio	Lower	Upper
117	100		
201	67.3	33.7	101.0



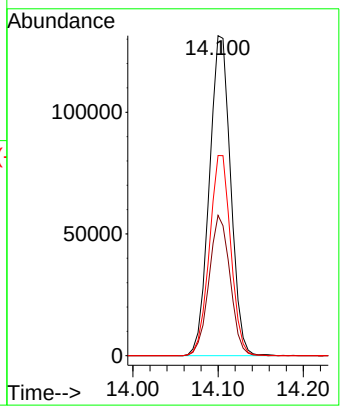


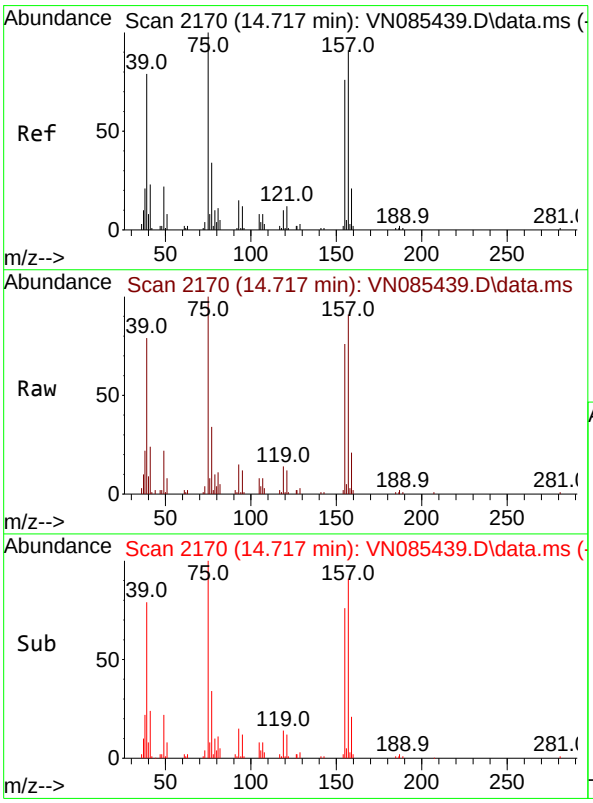
#91
1,2-Dichlorobenzene
Concen: 48.012 ug/l
RT: 14.100 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion:146 Resp: 228024

Ion	Ratio	Lower	Upper
146	100		
111	43.4	21.7	65.1
148	62.8	31.4	94.2

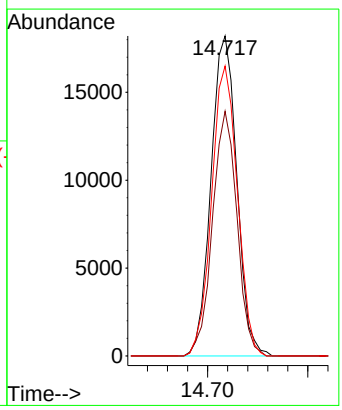


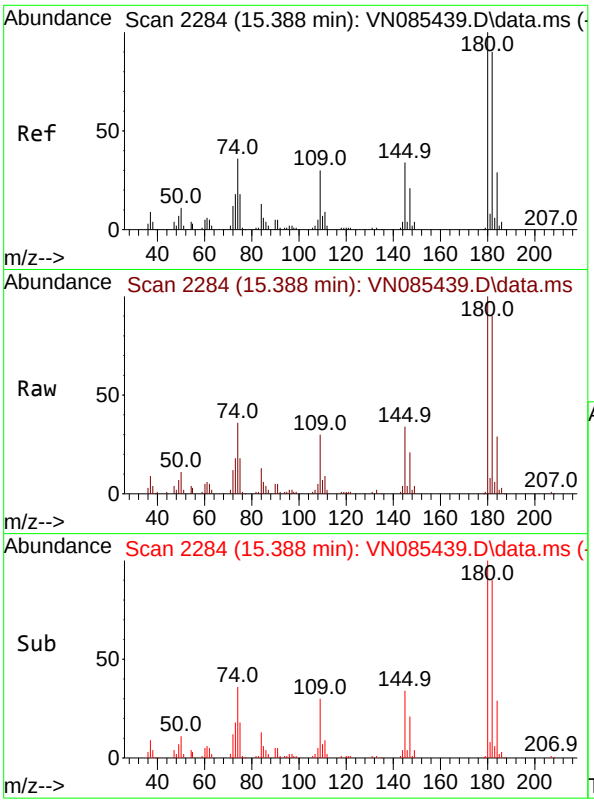


#92
1,2-Dibromo-3-Chloropropane
Concen: 50.971 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 75 Resp: 32536

Ion	Ratio	Lower	Upper
75	100		
155	72.8	36.4	109.2
157	90.7	45.4	136.1



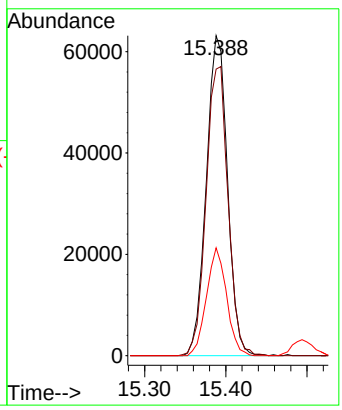


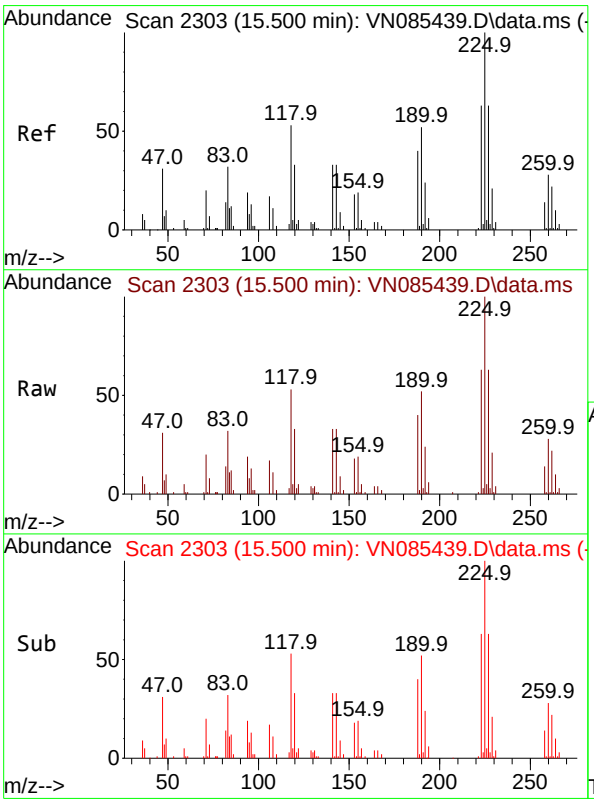
#93
1,2,4-Trichlorobenzene
Concen: 51.857 ug/l
RT: 15.388 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion:180 Resp: 114468

Ion	Ratio	Lower	Upper
180	100		
182	93.5	46.8	140.3
145	32.0	16.0	48.0

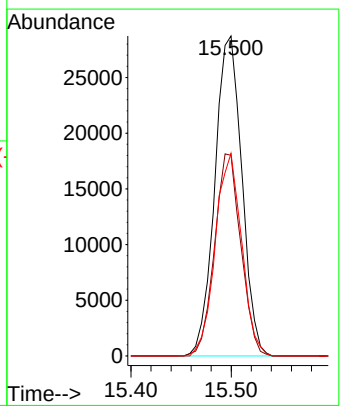


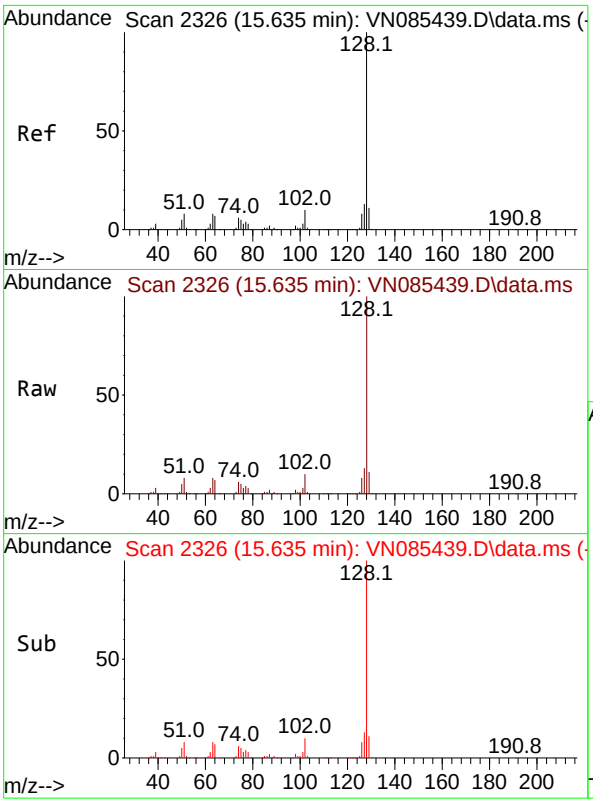


#94
Hexachlorobutadiene
Concen: 45.947 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion:225 Resp: 53846

Ion	Ratio	Lower	Upper
225	100		
223	61.4	30.7	92.1
227	61.7	30.9	92.5



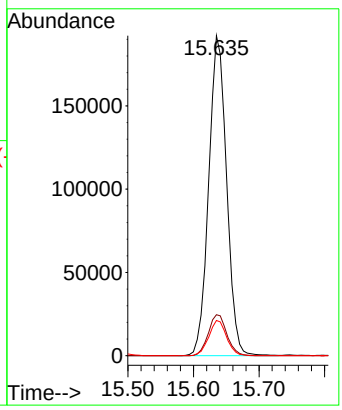


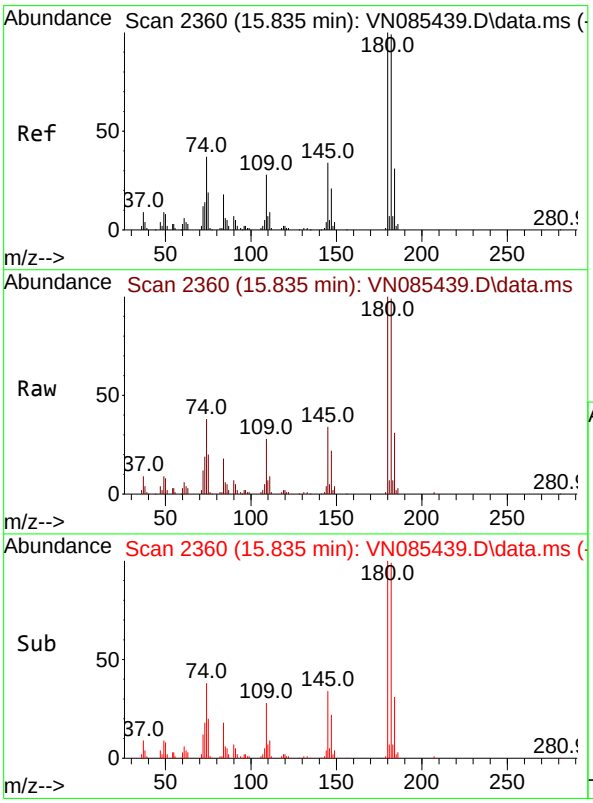
#95
Naphthalene
Concen: 55.243 ug/l
RT: 15.635 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion:128 Resp: 363882

Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.6	16.0
129	11.0	8.8	13.2

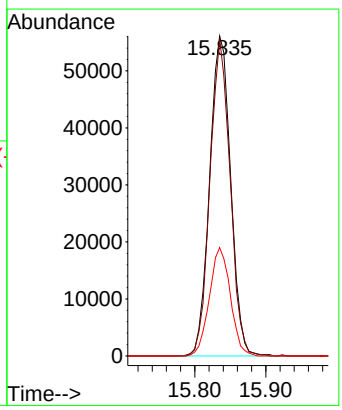




#96
1,2,3-Trichlorobenzene
Concen: 51.601 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion:180 Resp: 115251

Ion	Ratio	Lower	Upper
180	100		
182	94.8	47.4	142.2
145	33.8	16.9	50.7



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085440.D
Acq On : 14 Jan 2025 15:43
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Quant Time: Jan 15 01:43:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	200796	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	340593	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	296298	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	143526	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	60593	18.694	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	37.380%#		
35) Dibromofluoromethane	8.165	113	45655	19.322	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	38.640%#		
50) Toluene-d8	10.559	98	164391	19.581	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	39.160%#		
62) 4-Bromofluorobenzene	12.847	95	55798	19.430	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	38.860%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	54666	20.107	ug/l	98
3) Chloromethane	2.359	50	58426	19.848	ug/l	100
4) Vinyl Chloride	2.512	62	58403	19.739	ug/l	99
5) Bromomethane	2.954	94	36440	20.389	ug/l	94
6) Chloroethane	3.118	64	37594	20.041	ug/l	93
7) Trichlorofluoromethane	3.501	101	88121	20.526	ug/l	99
8) Diethyl Ether	3.965	74	29138	19.647	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.371	101	48933	20.237	ug/l	99
10) Methyl Iodide	4.589	142	56567	20.428	ug/l	93
11) Tert butyl alcohol	5.506	59	37984	102.342	ug/l	100
12) 1,1-Dichloroethene	4.342	96	44670	20.728	ug/l	95
13) Acrolein	4.171	56	49649	97.995	ug/l	99
14) Allyl chloride	5.024	41	67705	19.362	ug/l	96
15) Acrylonitrile	5.712	53	121626	103.171	ug/l	99
16) Acetone	4.424	43	101065	96.502	ug/l	96
17) Carbon Disulfide	4.712	76	132300	19.939	ug/l	98
18) Methyl Acetate	5.018	43	60873	19.115	ug/l	99
19) Methyl tert-butyl Ether	5.795	73	148847	21.272	ug/l	100
20) Methylene Chloride	5.271	84	52813	20.370	ug/l	97
21) trans-1,2-Dichloroethene	5.789	96	46115	20.023	ug/l	98
22) Diisopropyl ether	6.671	45	166719	21.480	ug/l	97
23) Vinyl Acetate	6.594	43	666942	122.364	ug/l	99
24) 1,1-Dichloroethane	6.565	63	96875	20.469	ug/l #	96
25) 2-Butanone	7.477	43	159952	103.786	ug/l	98
26) 2,2-Dichloropropane	7.483	77	79145	20.684	ug/l	99
27) cis-1,2-Dichloroethene	7.483	96	57454	21.180	ug/l	98
28) Bromochloromethane	7.812	49	41181	18.703	ug/l	99
29) Tetrahydrofuran	7.836	42	104792	107.247	ug/l	99
30) Chloroform	7.959	83	99655	20.374	ug/l	99
31) Cyclohexane	8.253	56	82980	20.173	ug/l	97
32) 1,1,1-Trichloroethane	8.165	97	87659	20.431	ug/l	98
36) 1,1-Dichloropropene	8.371	75	67949	20.490	ug/l	98
37) Ethyl Acetate	7.553	43	66443	19.850	ug/l	96
38) Carbon Tetrachloride	8.359	117	78842	20.767	ug/l	96
39) Methylcyclohexane	9.594	83	65012	20.862	ug/l	96
40) Benzene	8.600	78	207985	20.873	ug/l	99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085440.D
Acq On : 14 Jan 2025 15:43
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Quant Time: Jan 15 01:43:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.771	41	36578	21.004	ug/l		99
42) 1,2-Dichloroethane	8.665	62	78402	20.891	ug/l		99
43) Isopropyl Acetate	8.683	43	109131	20.347	ug/l		98
44) Trichloroethene	9.347	130	48009	20.699	ug/l		96
45) 1,2-Dichloropropane	9.618	63	52833	20.758	ug/l		93
46) Dibromomethane	9.700	93	37721	20.540	ug/l		98
47) Bromodichloromethane	9.882	83	78918	21.093	ug/l		96
48) Methyl methacrylate	9.677	41	50224	20.808	ug/l		96
49) 1,4-Dioxane	9.688	88	17140	421.686	ug/l		95
51) 4-Methyl-2-Pentanone	10.441	43	336911	108.249	ug/l		100
52) Toluene	10.630	92	125172	21.680	ug/l		99
53) t-1,3-Dichloropropene	10.835	75	74129	20.965	ug/l		96
54) cis-1,3-Dichloropropene	10.306	75	81897	21.684	ug/l		99
55) 1,1,2-Trichloroethane	11.012	97	48039	21.025	ug/l		97
56) Ethyl methacrylate	10.871	69	70934	19.649	ug/l		99
57) 1,3-Dichloropropane	11.159	76	84210	21.196	ug/l		99
58) 2-Chloroethyl Vinyl ether	10.159	63	153681	105.991	ug/l		100
59) 2-Hexanone	11.194	43	240595	109.863	ug/l		98
60) Dibromochloromethane	11.353	129	56069	20.326	ug/l		96
61) 1,2-Dibromoethane	11.465	107	48465	21.309	ug/l		96
64) Tetrachloroethene	11.100	164	43243	21.408	ug/l		96
65) Chlorobenzene	11.888	112	136809	21.077	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.959	131	48370	20.304	ug/l		98
67) Ethyl Benzene	11.959	91	229978	21.753	ug/l		98
68) m/p-Xylenes	12.071	106	177755	45.494	ug/l		100
69) o-Xylene	12.394	106	84548	22.643	ug/l		98
70) Styrene	12.412	104	140581	22.749	ug/l		99
71) Bromoform	12.576	173	36961	21.683	ug/l	#	96
73) Isopropylbenzene	12.694	105	211354	21.819	ug/l		100
74) N-amyl acetate	12.494	43	94292	21.656	ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.935	83	68151	19.917	ug/l		99
76) 1,2,3-Trichloropropane	12.988	75	90004	30.902	ug/l		46
77) Bromobenzene	12.976	156	52022	20.556	ug/l		99
78) n-propylbenzene	13.035	91	252610	22.028	ug/l		100
79) 2-Chlorotoluene	13.123	91	158511	21.358	ug/l		100
80) 1,3,5-Trimethylbenzene	13.171	105	180294	22.533	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.735	75	25146	23.322	ug/l	#	82
82) 4-Chlorotoluene	13.218	91	161880	21.906	ug/l		100
83) tert-Butylbenzene	13.435	119	147541	21.958	ug/l		99
84) 1,2,4-Trimethylbenzene	13.482	105	183144	22.965	ug/l		99
85) sec-Butylbenzene	13.612	105	209133	22.457	ug/l		100
86) p-Isopropyltoluene	13.729	119	168888	21.661	ug/l		99
87) 1,3-Dichlorobenzene	13.729	146	97652	20.952	ug/l		100
88) 1,4-Dichlorobenzene	13.806	146	98321	20.351	ug/l		99
89) n-Butylbenzene	14.053	91	142673	21.355	ug/l		99
90) Hexachloroethane	14.329	117	35205	19.858	ug/l		98
91) 1,2-Dichlorobenzene	14.100	146	94954	20.425	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	12859	20.580	ug/l		100
93) 1,2,4-Trichlorobenzene	15.388	180	45878	21.233	ug/l		99
94) Hexachlorobutadiene	15.500	225	22719	19.805	ug/l		95
95) Naphthalene	15.635	128	134793	20.906	ug/l		99
96) 1,2,3-Trichlorobenzene	15.835	180	45468	20.797	ug/l		97

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085440.D
Acq On : 14 Jan 2025 15:43
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Quant Time: Jan 15 01:43:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration

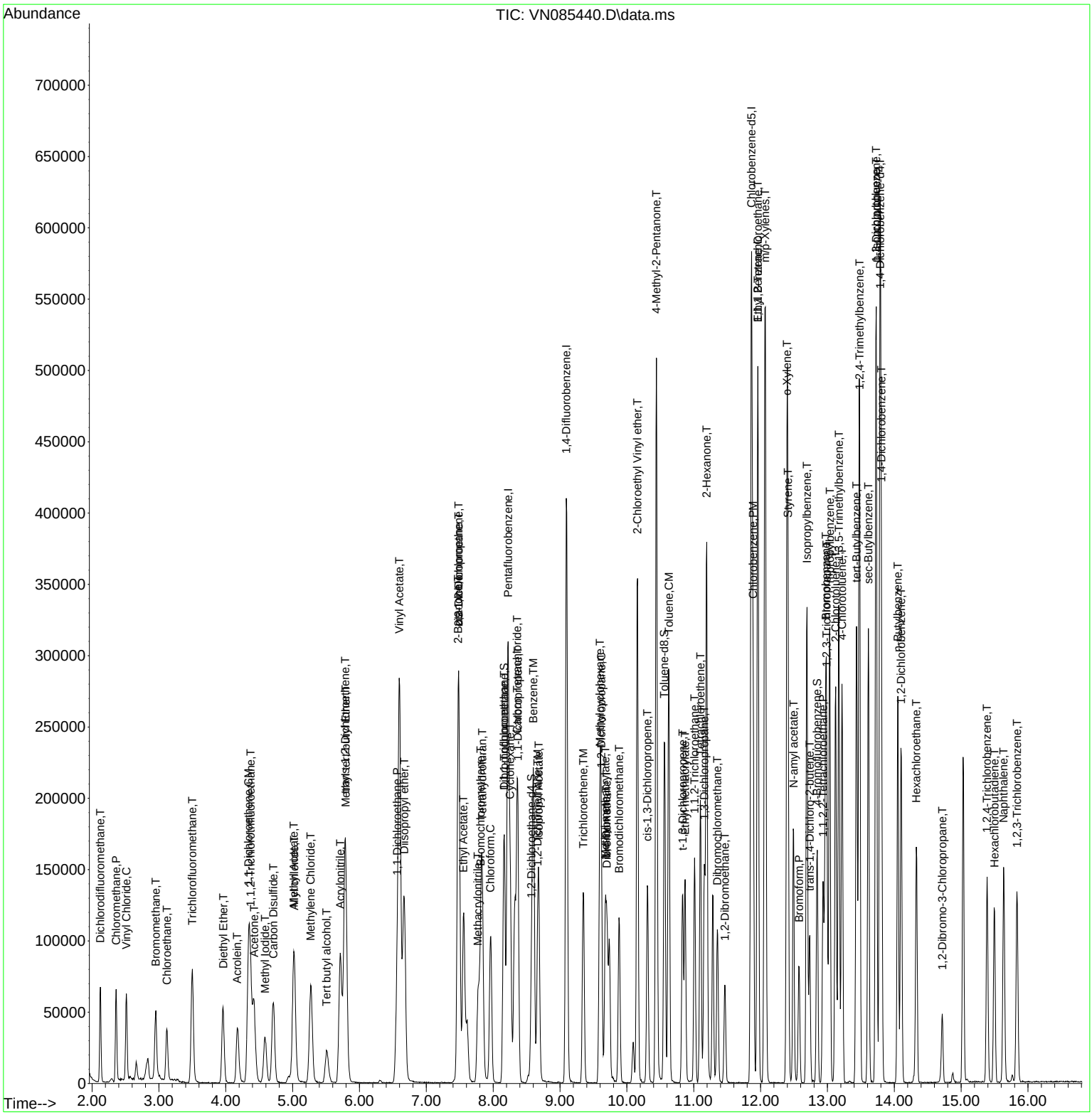
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

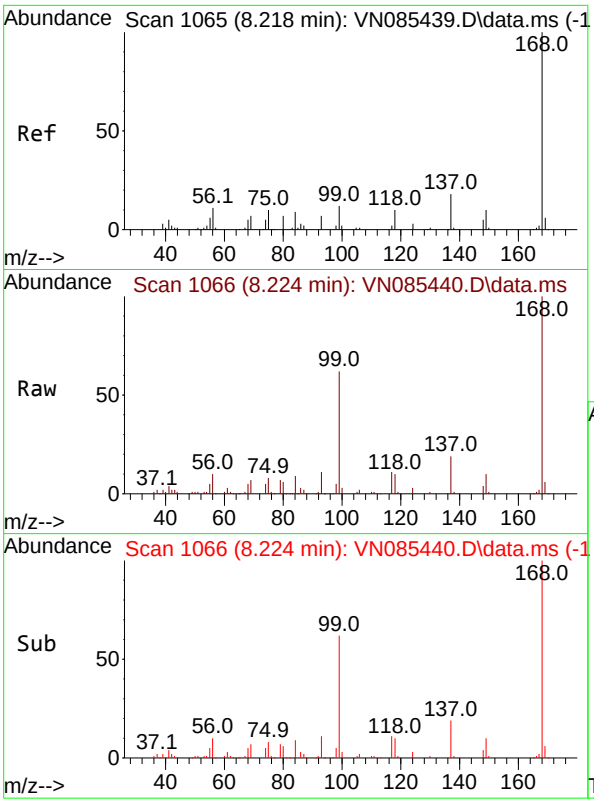
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085440.D
Acq On : 14 Jan 2025 15:43
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Quant Time: Jan 15 01:43:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration



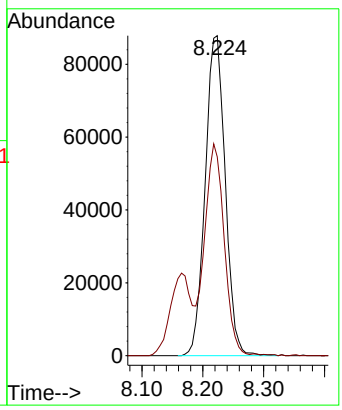


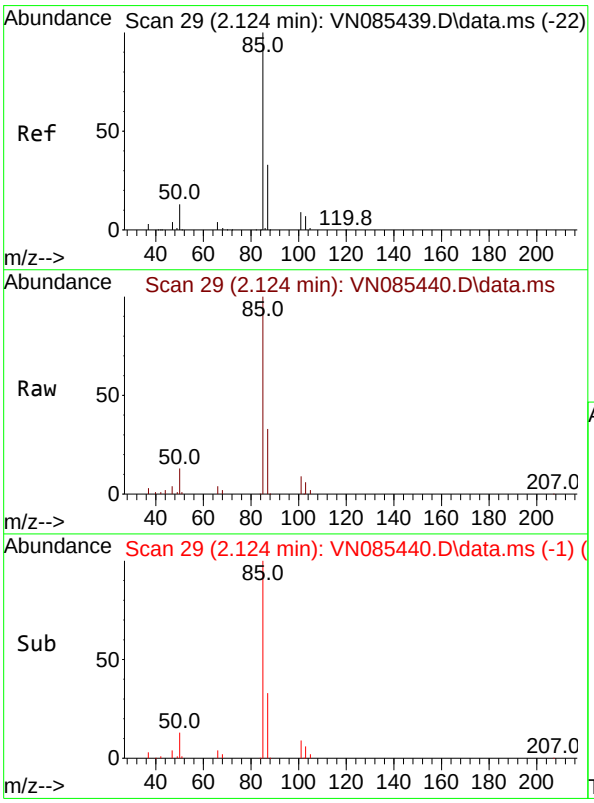
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion:168 Resp: 200796

Ion	Ratio	Lower	Upper
168	100		
99	62.2	53.6	80.4

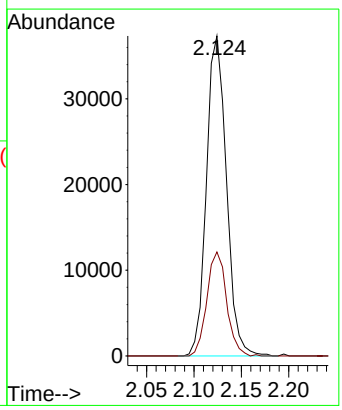


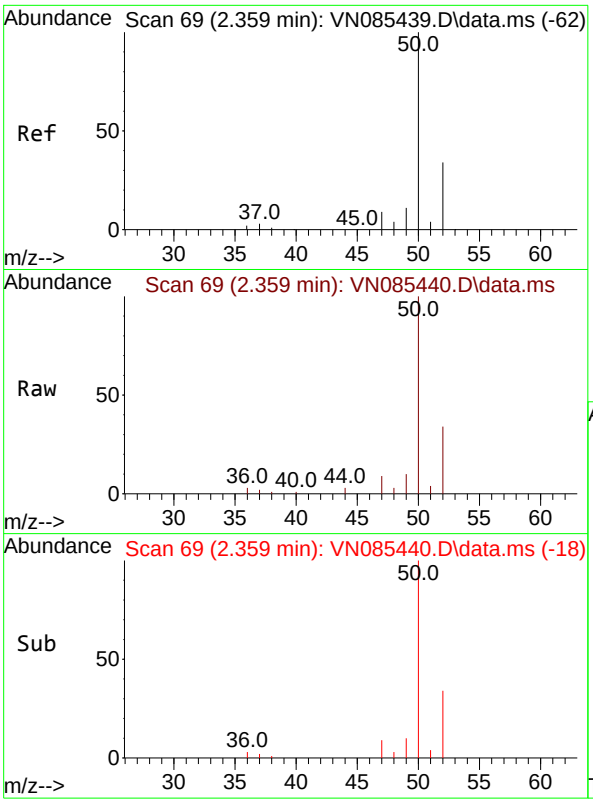


#2
Dichlorodifluoromethane
Concen: 20.107 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 85 Resp: 54666

Ion	Ratio	Lower	Upper
85	100		
87	32.5	16.7	50.1



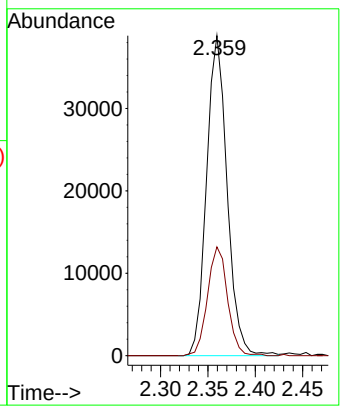


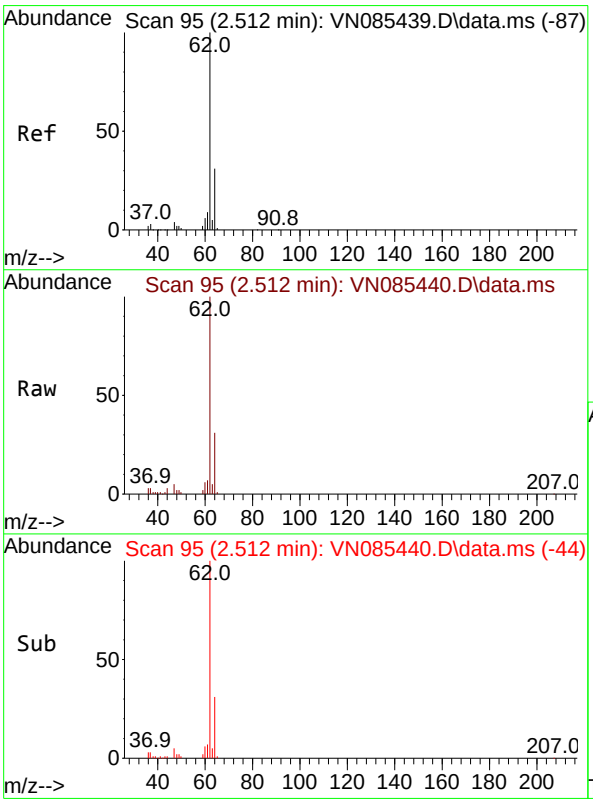
#3
Chloromethane
Concen: 19.848 ug/l
RT: 2.359 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 50 Resp: 58426

Ion	Ratio	Lower	Upper
50	100		
52	34.0	27.0	40.6

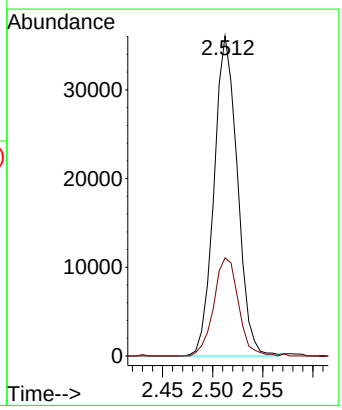


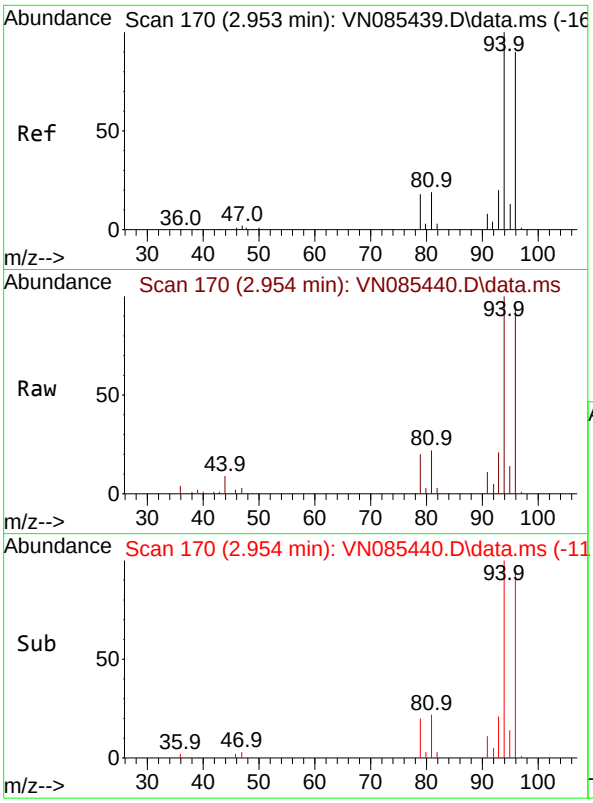


#4
Vinyl Chloride
Concen: 19.739 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 62 Resp: 58403

Ion	Ratio	Lower	Upper
62	100		
64	30.7	24.8	37.2



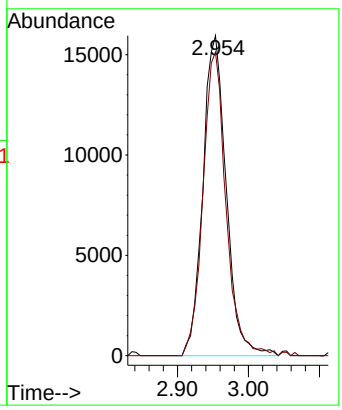


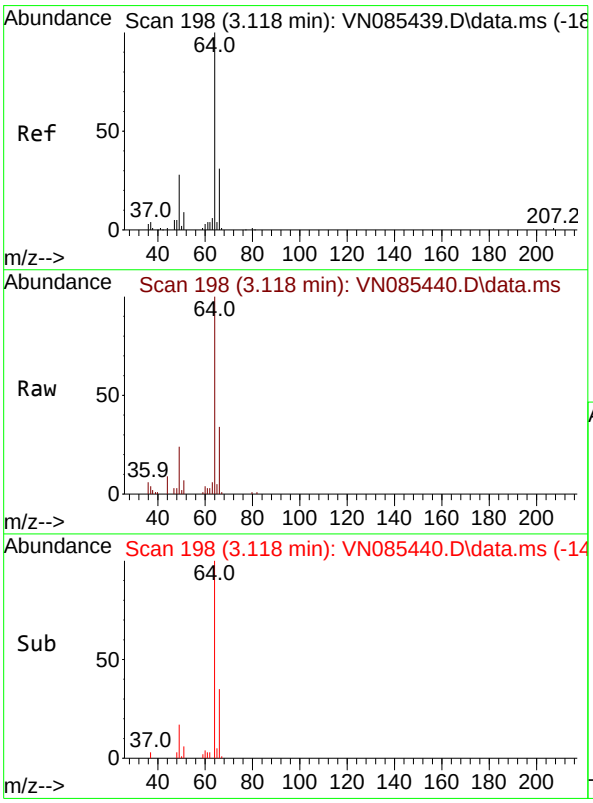
#5
Bromomethane
Concen: 20.389 ug/l
RT: 2.954 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 94 Resp: 36440

Ion	Ratio	Lower	Upper
94	100		
96	94.9	71.8	107.6

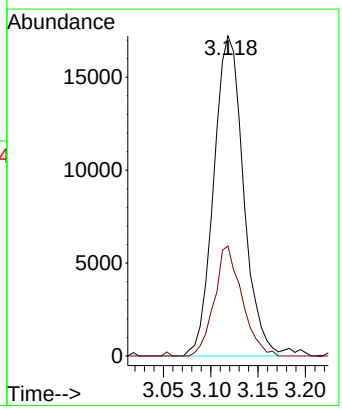


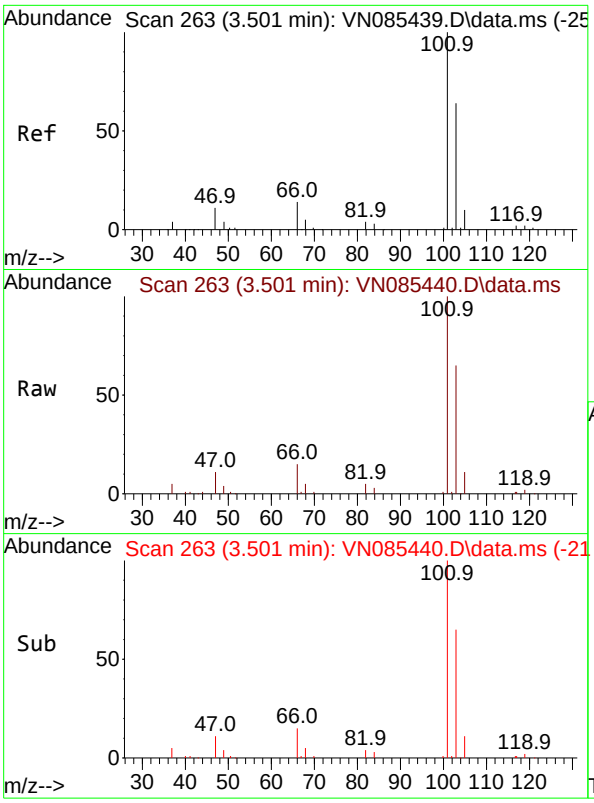


#6
Chloroethane
Concen: 20.041 ug/l
RT: 3.118 min Scan# 198
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 64 Resp: 37594

Ion	Ratio	Lower	Upper
64	100		
66	34.3	24.6	36.8



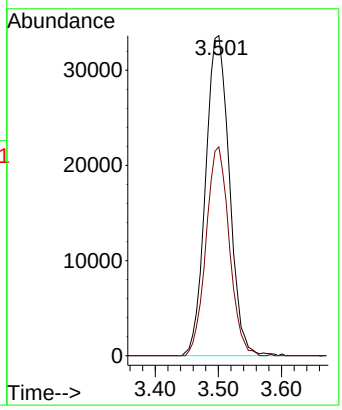


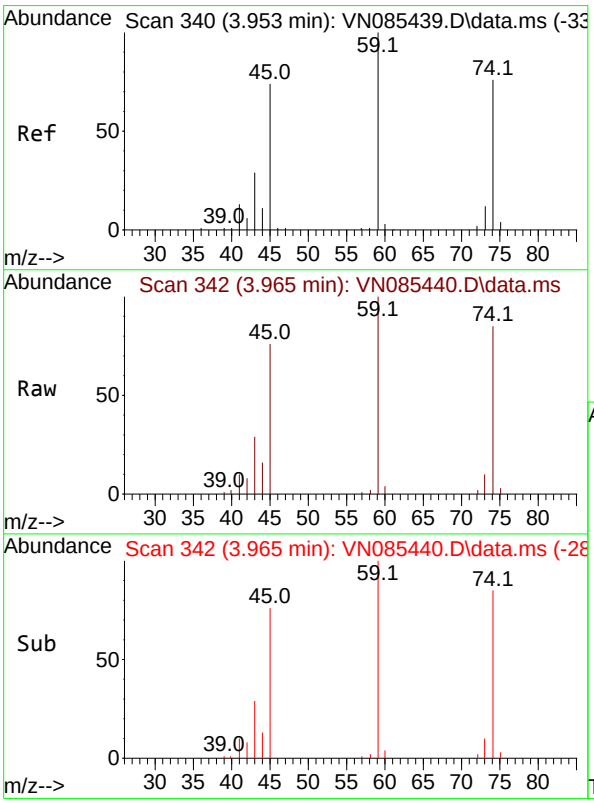
#7
Trichlorofluoromethane
Concen: 20.526 ug/l
RT: 3.501 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion:101 Resp: 88121

Ion	Ratio	Lower	Upper
101	100		
103	65.3	51.4	77.2

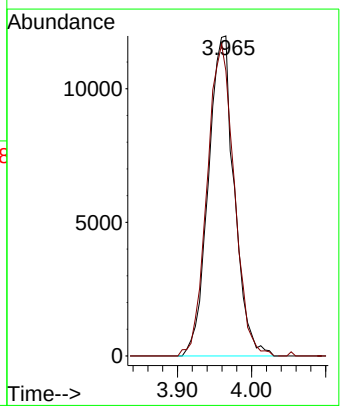


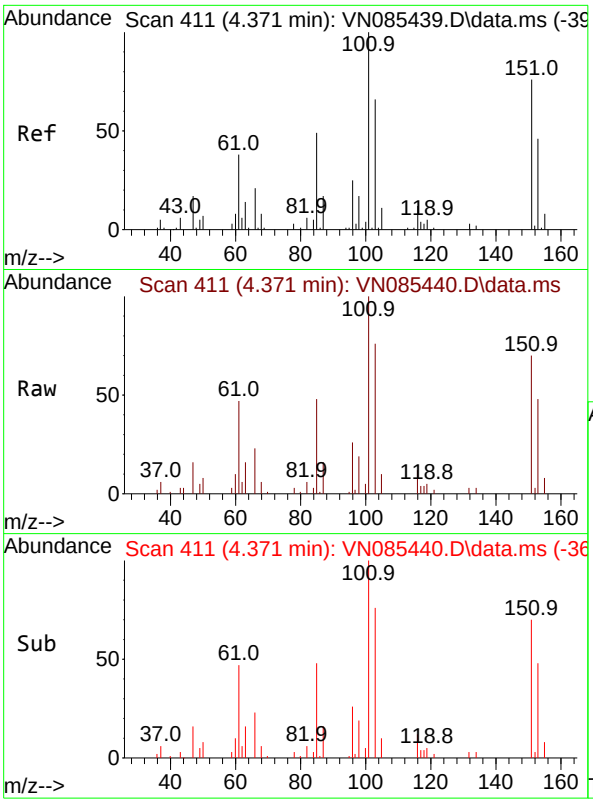


#8
Diethyl Ether
Concen: 19.647 ug/l
RT: 3.965 min Scan# 342
Delta R.T. 0.012 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 74 Resp: 29138

Ion	Ratio	Lower	Upper
74	100		
45	101.8	49.7	149.1



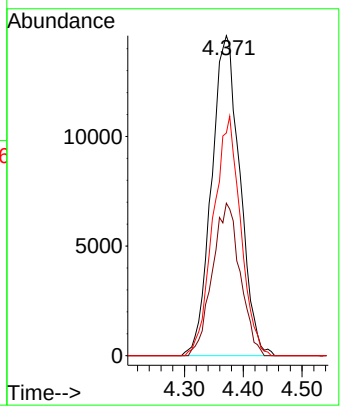


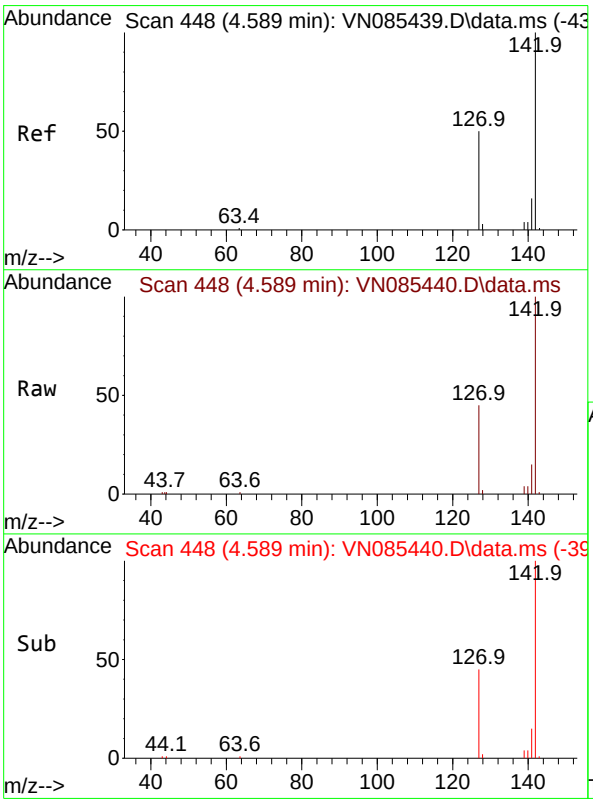
#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.237 ug/l
RT: 4.371 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion:101 Resp: 48933

Ion	Ratio	Lower	Upper
101	100		
85	46.6	37.8	56.8
151	72.1	58.8	88.2

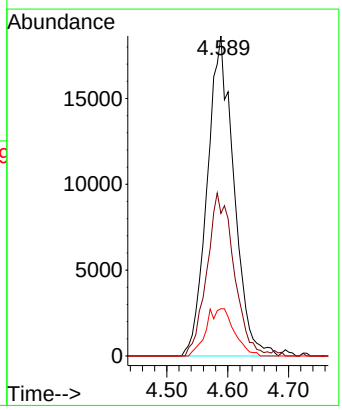


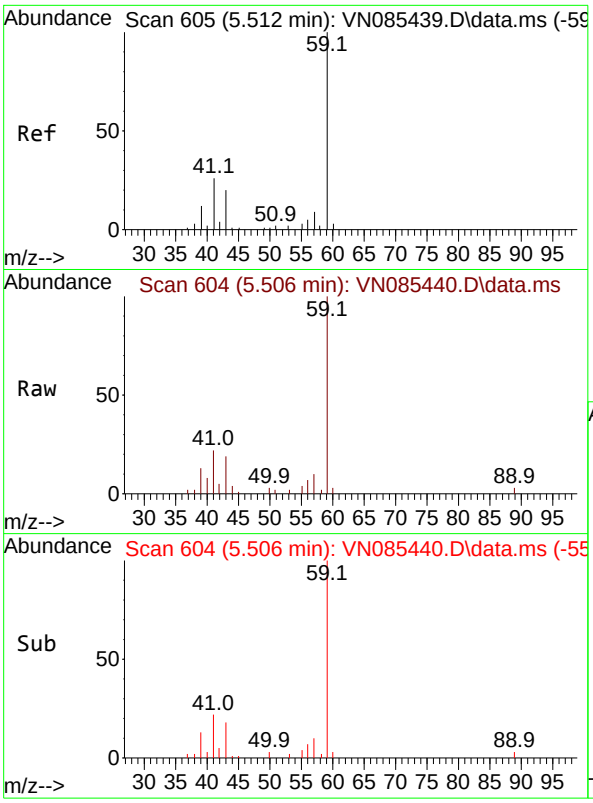


#10
Methyl Iodide
Concen: 20.428 ug/l
RT: 4.589 min Scan# 448
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:142 Resp: 56567

Ion	Ratio	Lower	Upper
142	100		
127	44.6	40.3	60.5
141	14.8	12.8	19.2



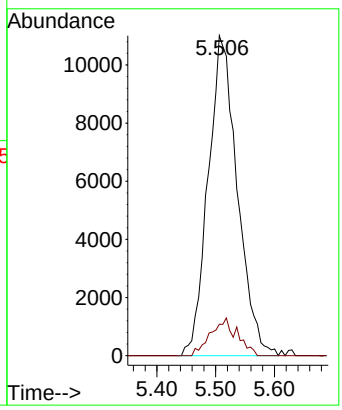


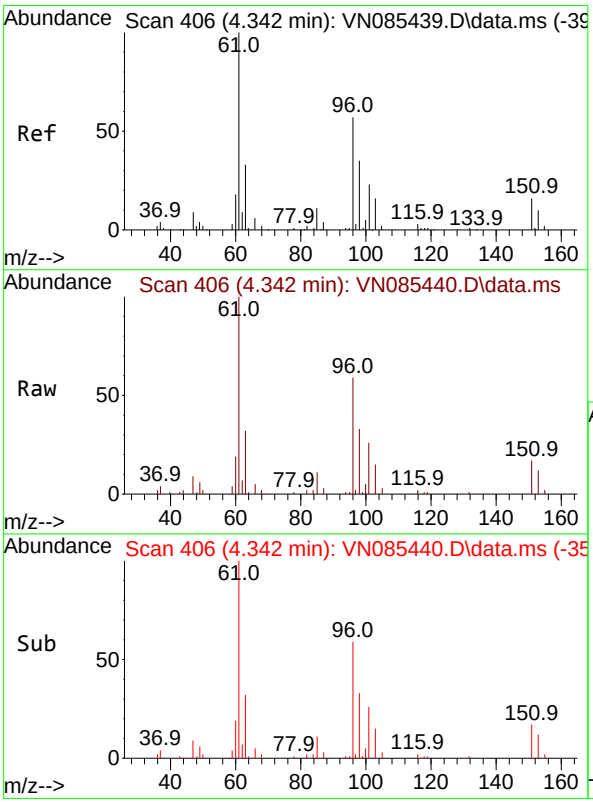
#11
Tert butyl alcohol
Concen: 102.342 ug/l
RT: 5.506 min Scan# 6
Delta R.T. -0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 59 Resp: 37984

Ion	Ratio	Lower	Upper
59	100		
57	10.7	8.6	13.0

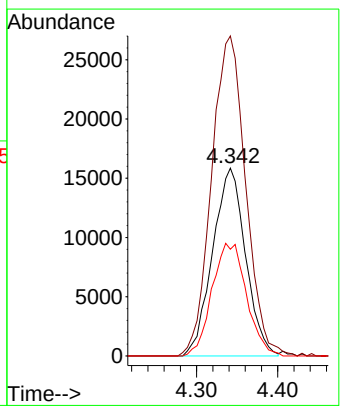


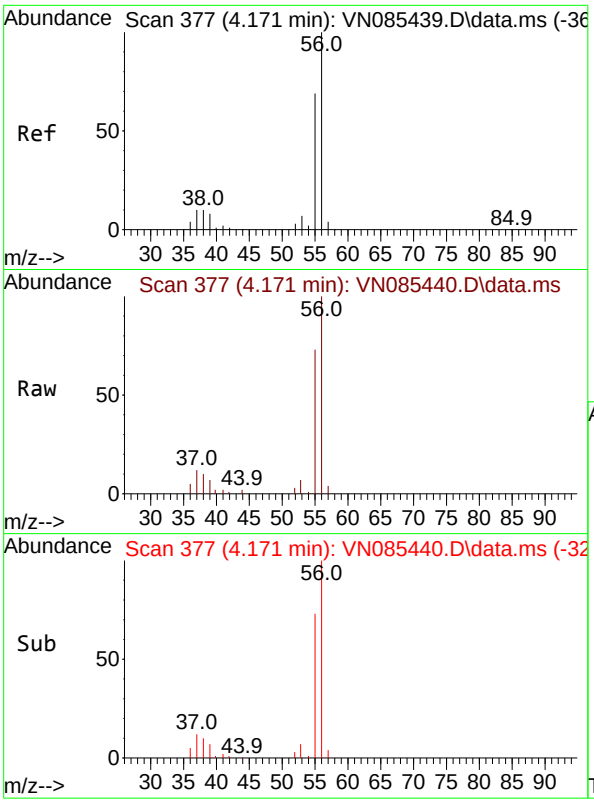


#12
1,1-Dichloroethene
Concen: 20.728 ug/l
RT: 4.342 min Scan# 406
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 96 Resp: 44670

Ion	Ratio	Lower	Upper
96	100		
61	170.3	141.0	211.4
98	56.8	49.0	73.6



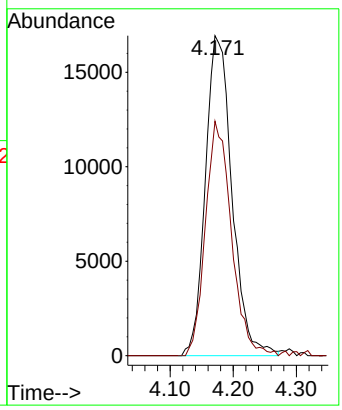


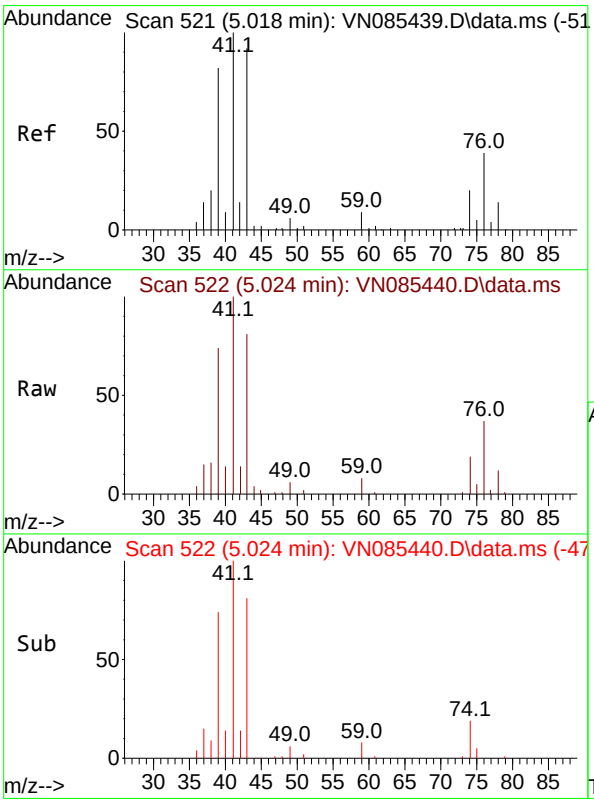
#13
Acrolein
Concen: 97.995 ug/l
RT: 4.171 min Scan# 3
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 56 Resp: 49649

Ion	Ratio	Lower	Upper
56	100		
55	71.4	56.3	84.5

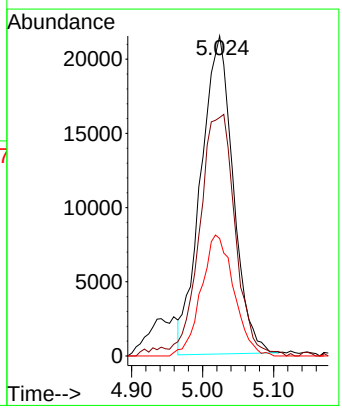


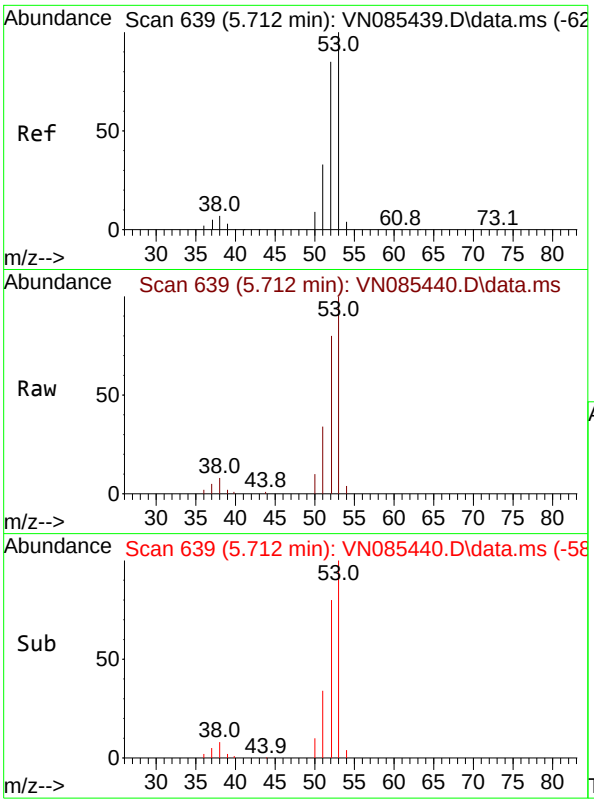


#14
Allyl chloride
Concen: 19.362 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 41 Resp: 67705

Ion	Ratio	Lower	Upper
41	100		
39	85.0	64.4	96.6
76	38.6	30.5	45.7



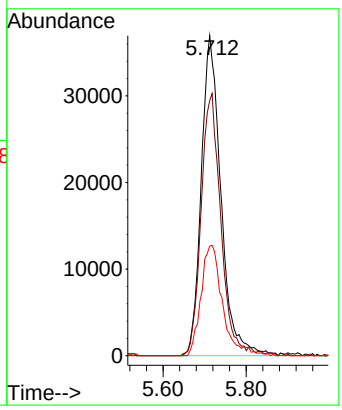


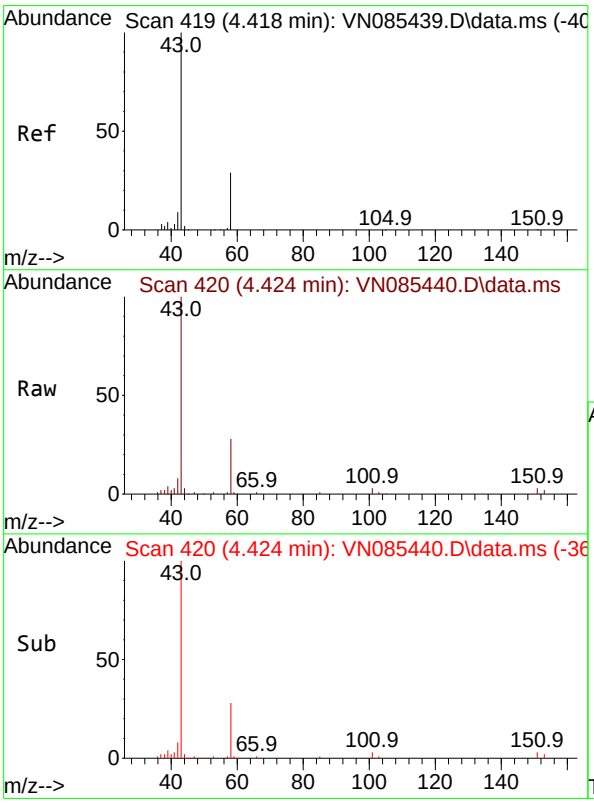
#15
Acrylonitrile
Concen: 103.171 ug/l
RT: 5.712 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 53 Resp: 121626

Ion	Ratio	Lower	Upper
53	100		
52	81.1	65.5	98.3
51	36.1	29.8	44.8

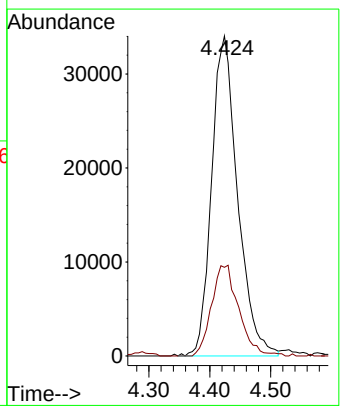


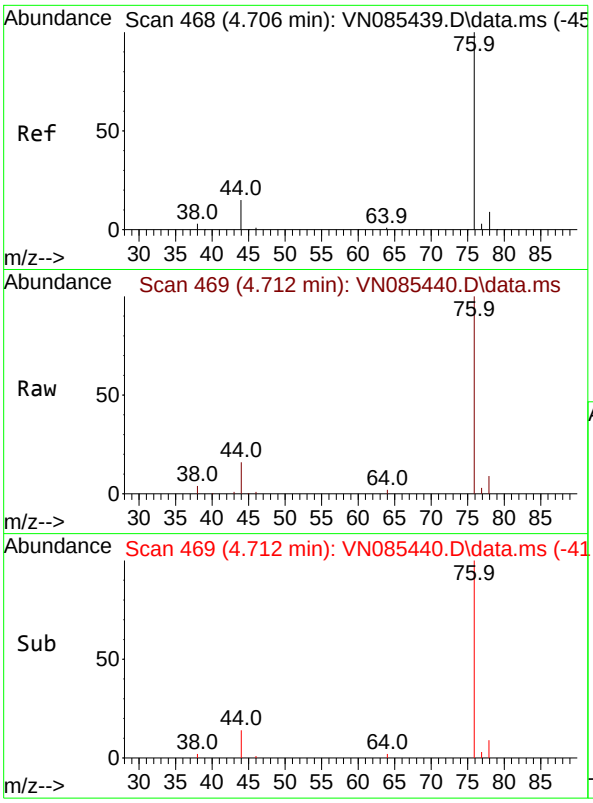


#16
Acetone
Concen: 96.502 ug/l
RT: 4.424 min Scan# 420
Delta R.T. 0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 43 Resp: 101065

Ion	Ratio	Lower	Upper
43	100		
58	27.7	23.8	35.6



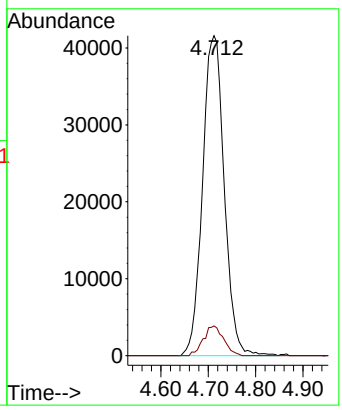


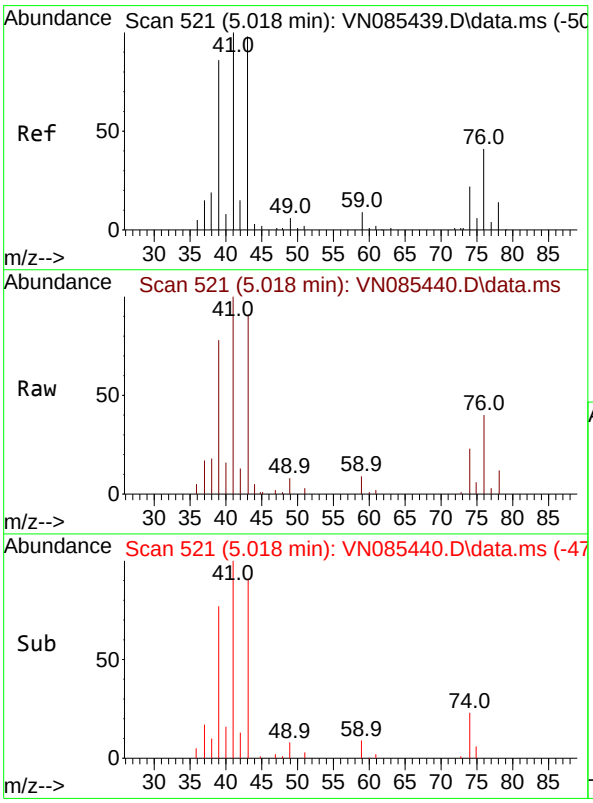
#17
Carbon Disulfide
Concen: 19.939 ug/l
RT: 4.712 min Scan# 4
Delta R.T. 0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 76 Resp: 132300

Ion	Ratio	Lower	Upper
76	100		
78	9.3	6.9	10.3

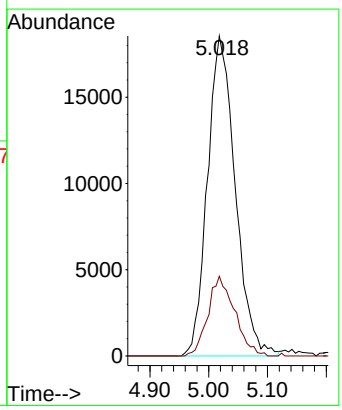


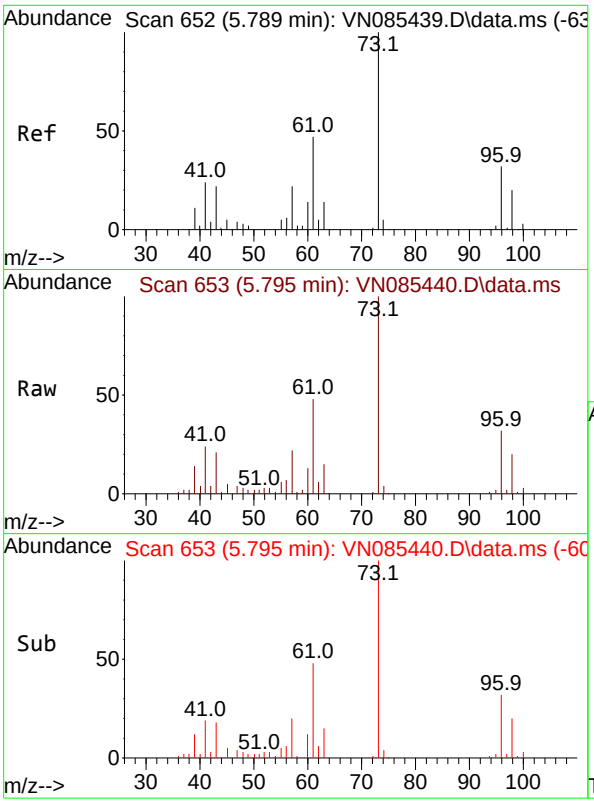


#18
Methyl Acetate
Concen: 19.115 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 43 Resp: 60873

Ion	Ratio	Lower	Upper
43	100		
74	24.0	18.6	28.0



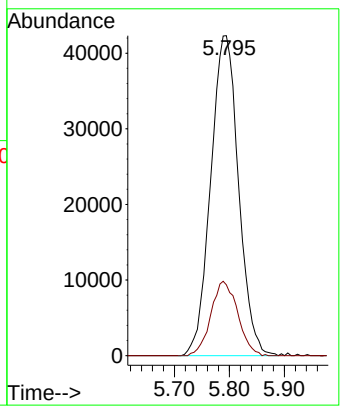


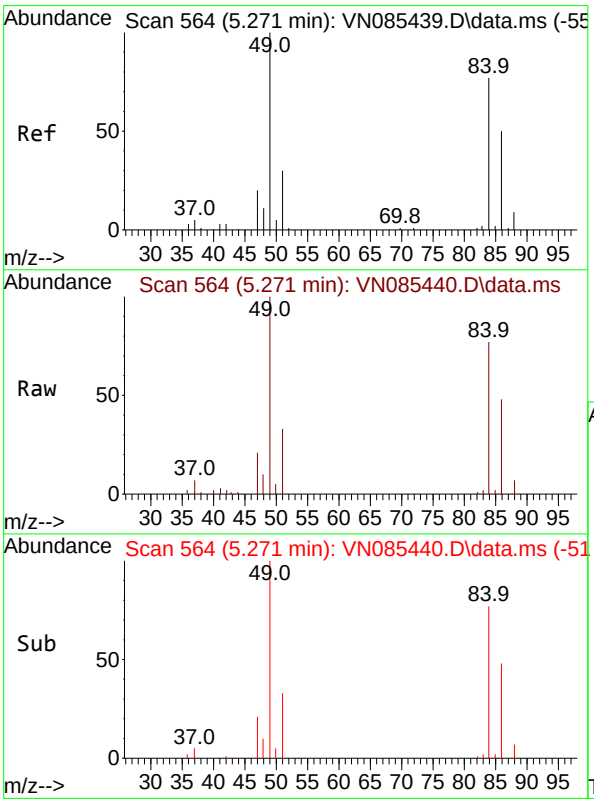
#19
Methyl tert-butyl Ether
Concen: 21.272 ug/l
RT: 5.795 min Scan# 6
Delta R.T. 0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 73 Resp: 148847

Ion	Ratio	Lower	Upper
73	100		
57	22.1	17.8	26.8

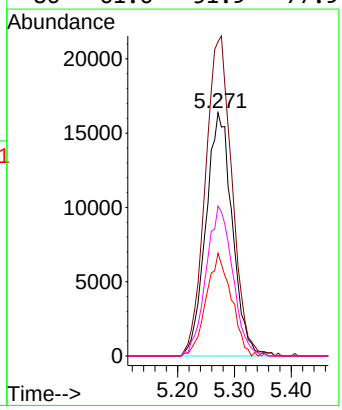


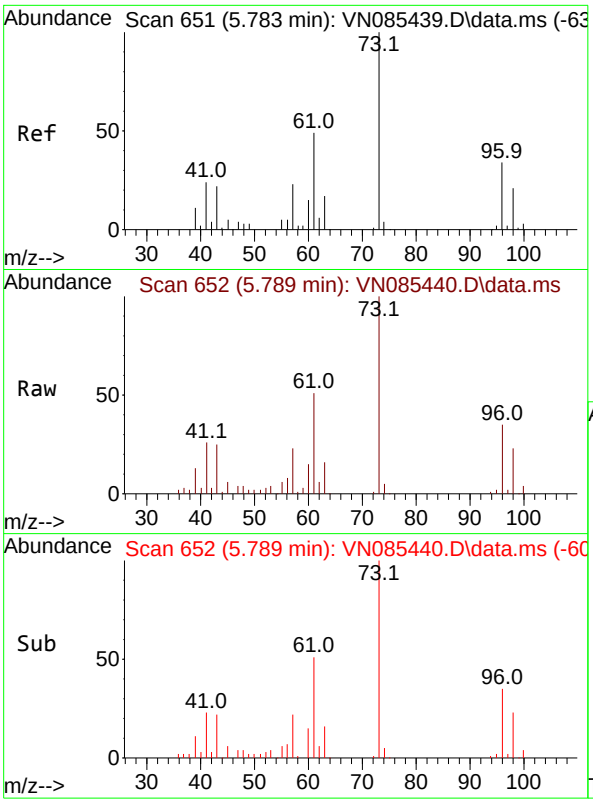


#20
Methylene Chloride
Concen: 20.370 ug/l
RT: 5.271 min Scan# 564
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 84 Resp: 52813

Ion	Ratio	Lower	Upper
84	100		
49	129.2	104.1	156.1
51	42.2	31.0	46.4
86	61.6	51.9	77.9



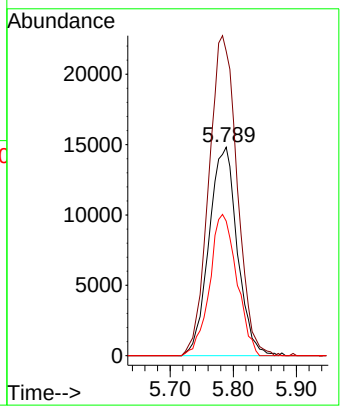


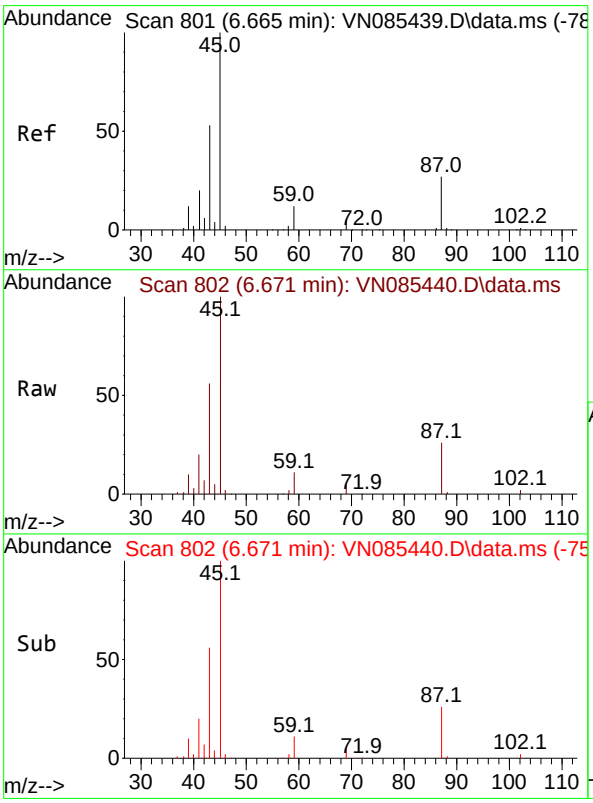
#21
trans-1,2-Dichloroethene
Concen: 20.023 ug/l
RT: 5.789 min Scan# 6
Delta R.T. 0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 96 Resp: 46115

Ion	Ratio	Lower	Upper
96	100		
61	146.1	115.7	173.5
98	64.5	49.8	74.8

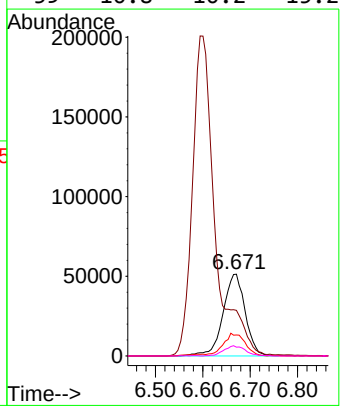


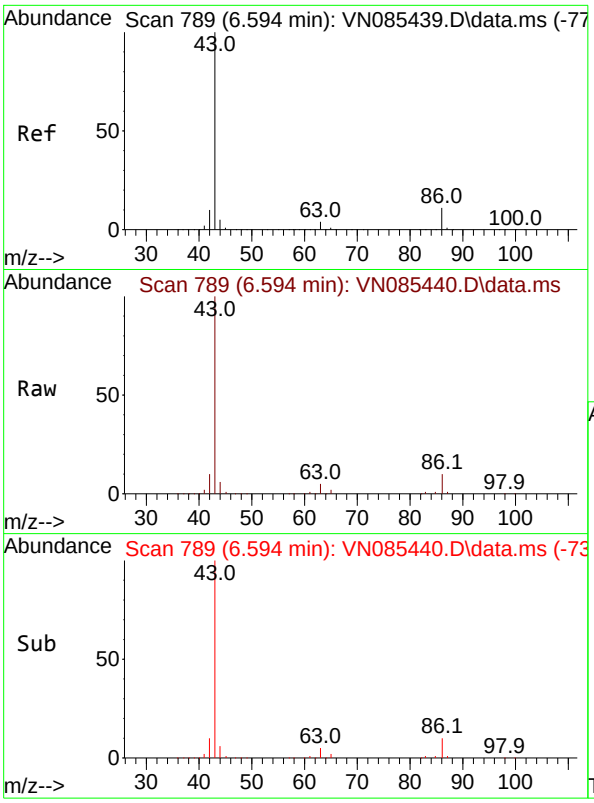


#22
Diisopropyl ether
Concen: 21.480 ug/l
RT: 6.671 min Scan# 802
Delta R.T. 0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 45 Resp: 166719

Ion	Ratio	Lower	Upper
45	100		
43	54.3	45.0	67.6
87	25.3	21.8	32.8
59	10.8	10.2	15.2



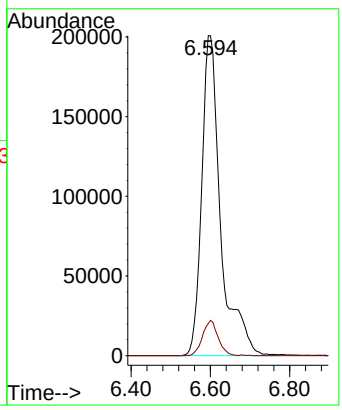


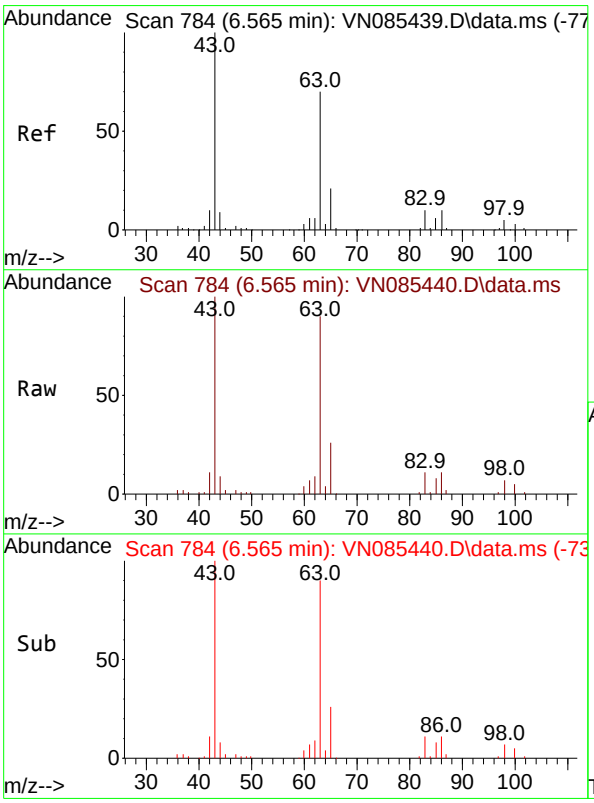
#23
Vinyl Acetate
Concen: 122.364 ug/l
RT: 6.594 min Scan# 7
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 666942

Ion	Ratio	Lower	Upper
43	100		
86	10.1	8.4	12.6

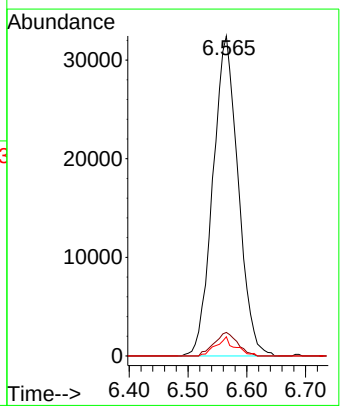


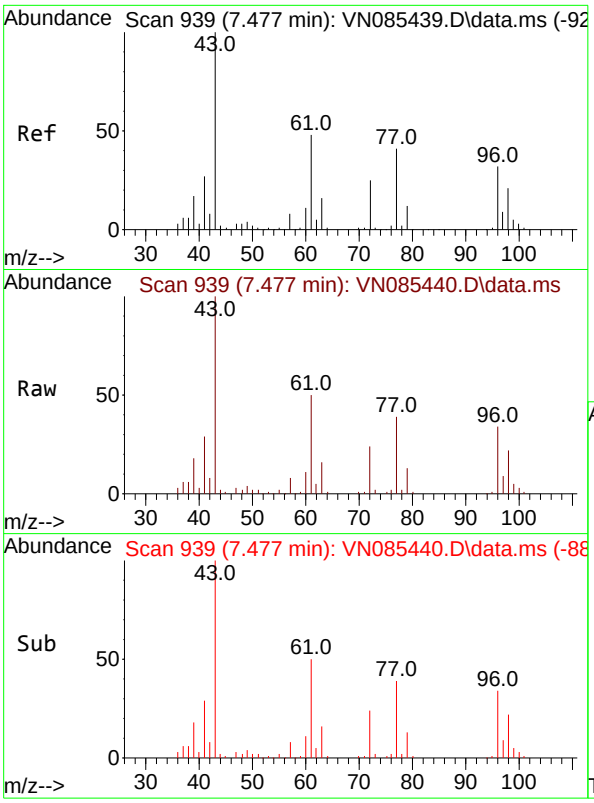


#24
1,1-Dichloroethane
Concen: 20.469 ug/l
RT: 6.565 min Scan# 784
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 63 Resp: 96875

Ion	Ratio	Lower	Upper
63	100		
98	7.4	3.3	9.8
100	6.0	2.0	6.0#



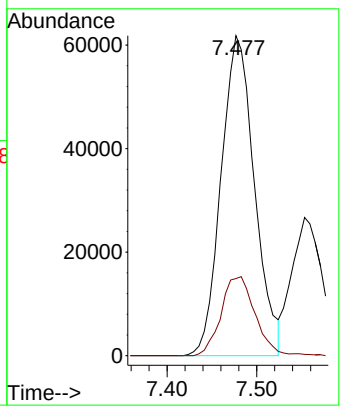


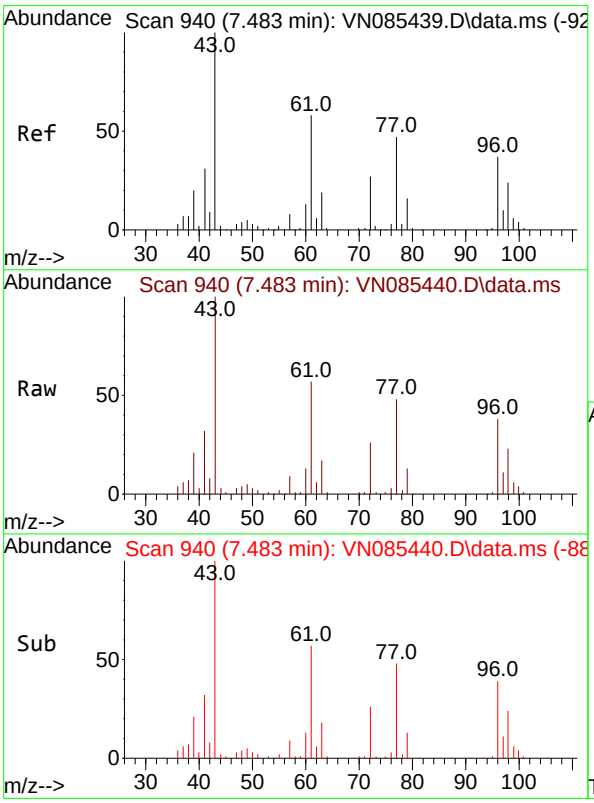
#25
2-Butanone
Concen: 103.786 ug/l
RT: 7.477 min Scan# 9
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 159952

Ion	Ratio	Lower	Upper
43	100		
72	24.1	20.2	30.4

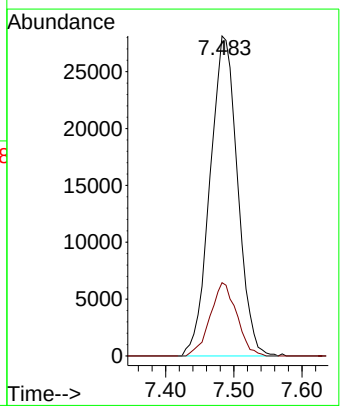


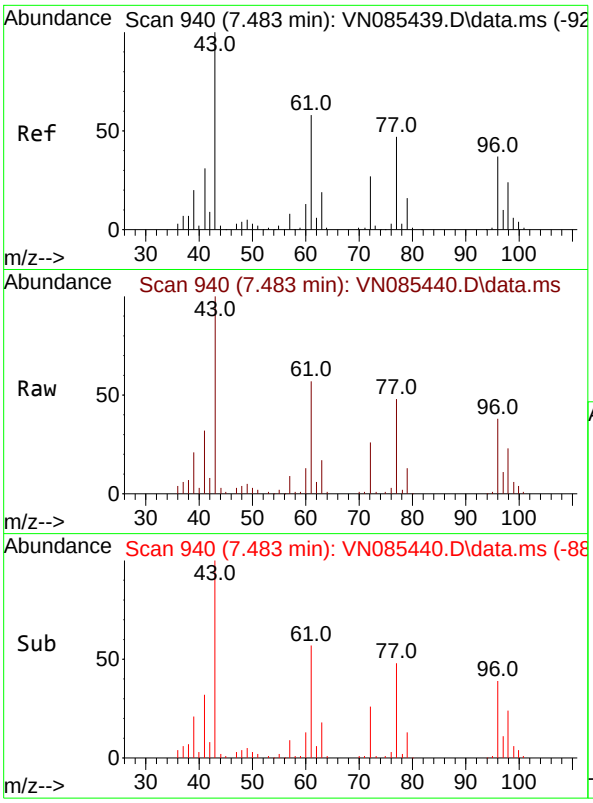


#26
2,2-Dichloropropane
Concen: 20.684 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 77 Resp: 79145

Ion	Ratio	Lower	Upper
77	100		
97	22.0	10.7	32.1



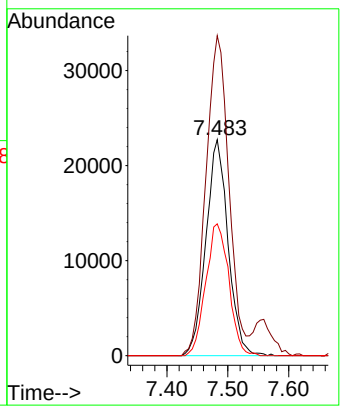


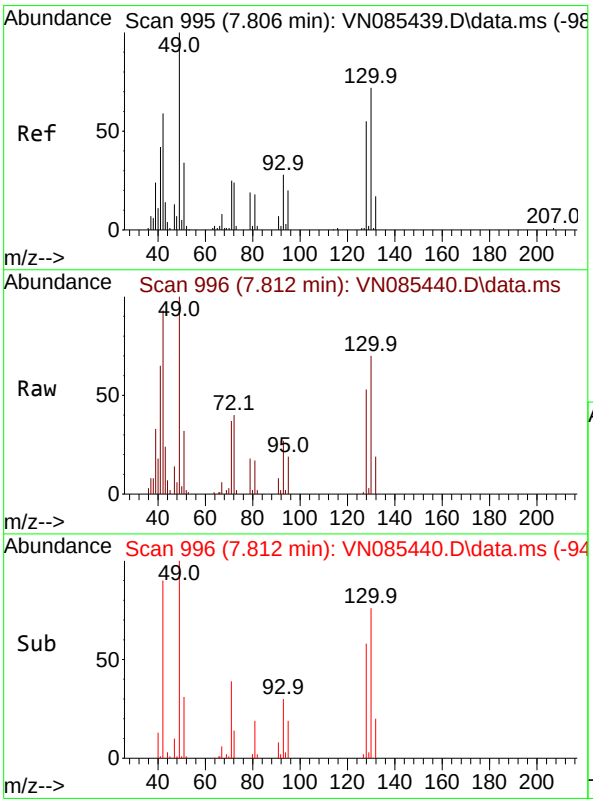
#27
cis-1,2-Dichloroethene
Concen: 21.180 ug/l
RT: 7.483 min Scan# 94
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 96 Resp: 57454

Ion	Ratio	Lower	Upper
96	100		
61	153.0	0.0	311.8
98	63.7	0.0	126.0

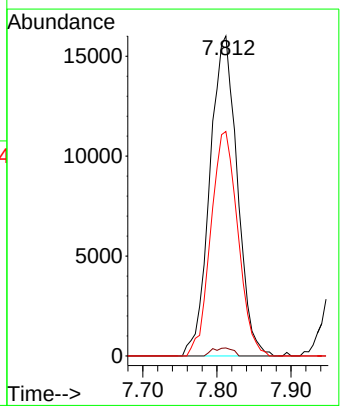


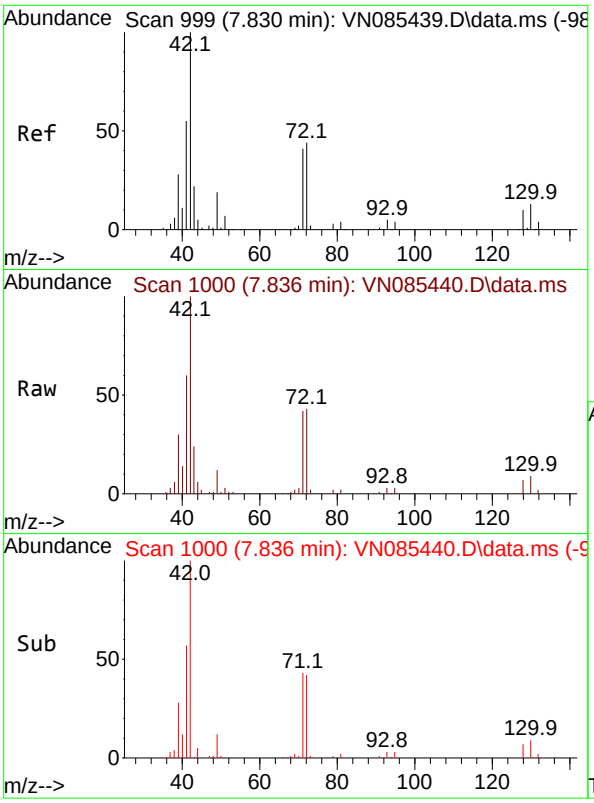


#28
Bromochloromethane
Concen: 18.703 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 49 Resp: 41181

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	4.4
130	69.3	55.0	82.4



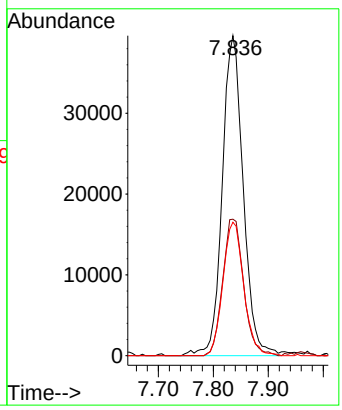


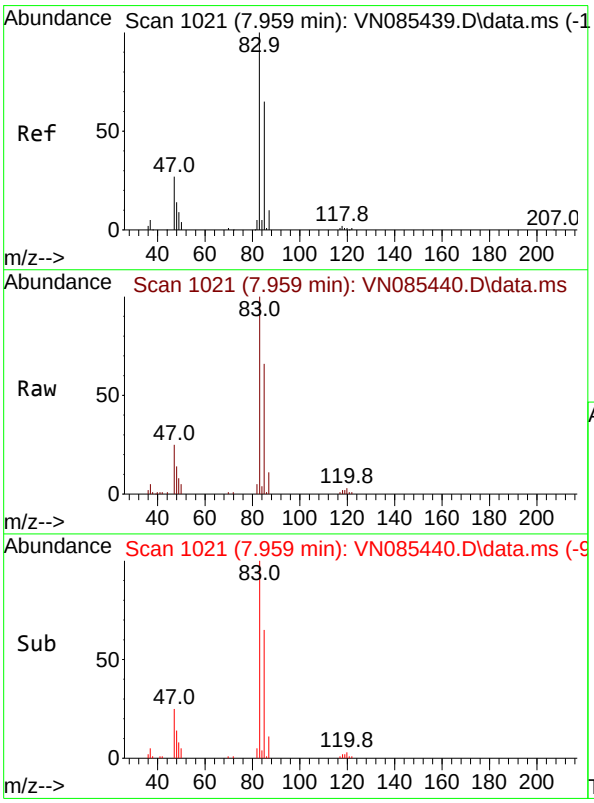
#29
Tetrahydrofuran
Concen: 107.247 ug/l
RT: 7.836 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 42 Resp: 104792

Ion	Ratio	Lower	Upper
42	100		
72	42.6	34.2	51.2
71	41.4	32.5	48.7

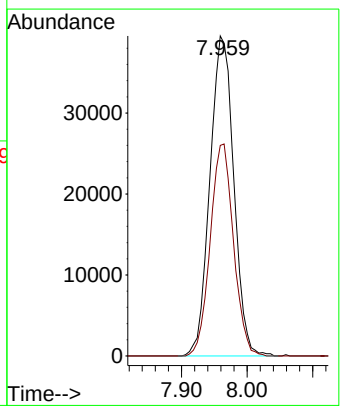


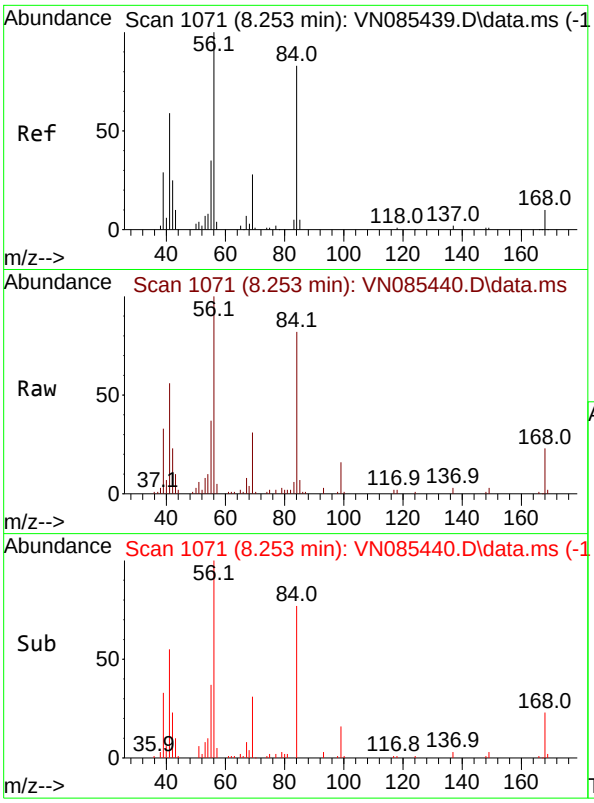


#30
Chloroform
Concen: 20.374 ug/l
RT: 7.959 min Scan# 1021
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 83 Resp: 99655

Ion	Ratio	Lower	Upper
83	100		
85	65.8	51.8	77.6



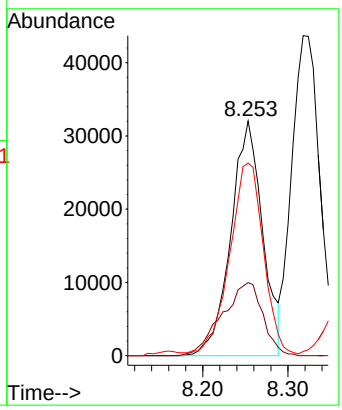


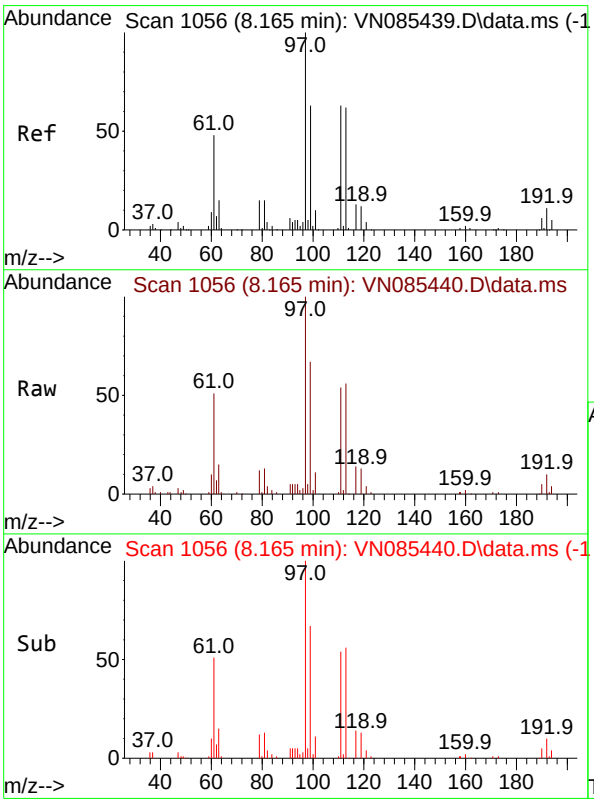
#31
Cyclohexane
Concen: 20.173 ug/l
RT: 8.253 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 56 Resp: 82980

Ion	Ratio	Lower	Upper
56	100		
69	31.2	22.2	33.4
84	80.8	66.4	99.6

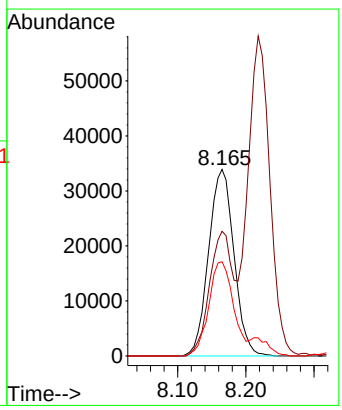


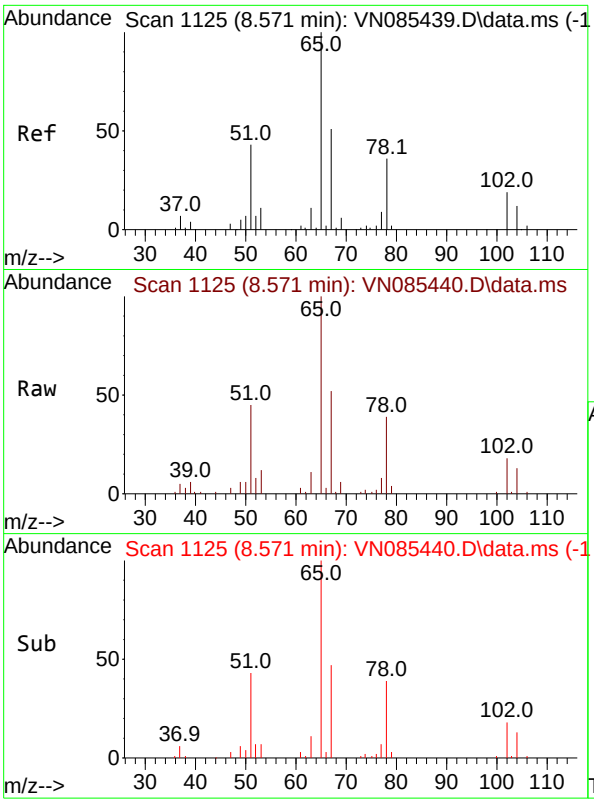


#32
1,1,1-Trichloroethane
Concen: 20.431 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 97 Resp: 87659

Ion	Ratio	Lower	Upper
97	100		
99	64.2	49.8	74.6
61	50.3	41.4	62.2



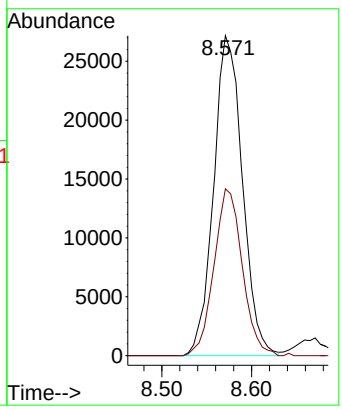


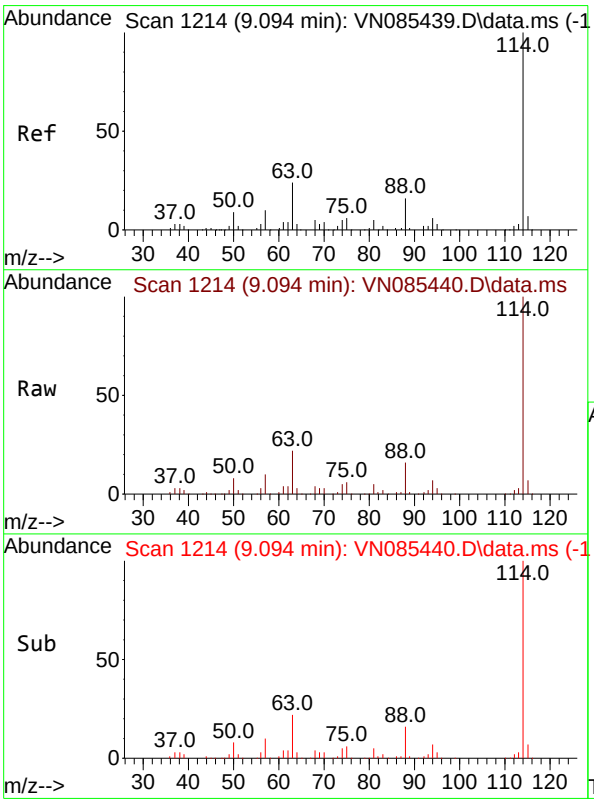
#33
1,2-Dichloroethane-d4
Concen: 18.694 ug/l
RT: 8.571 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 65 Resp: 60593

Ion	Ratio	Lower	Upper
65	100		
67	51.2	0.0	101.6

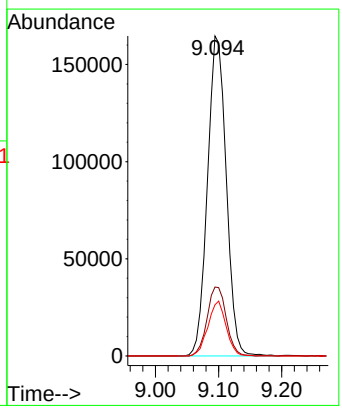


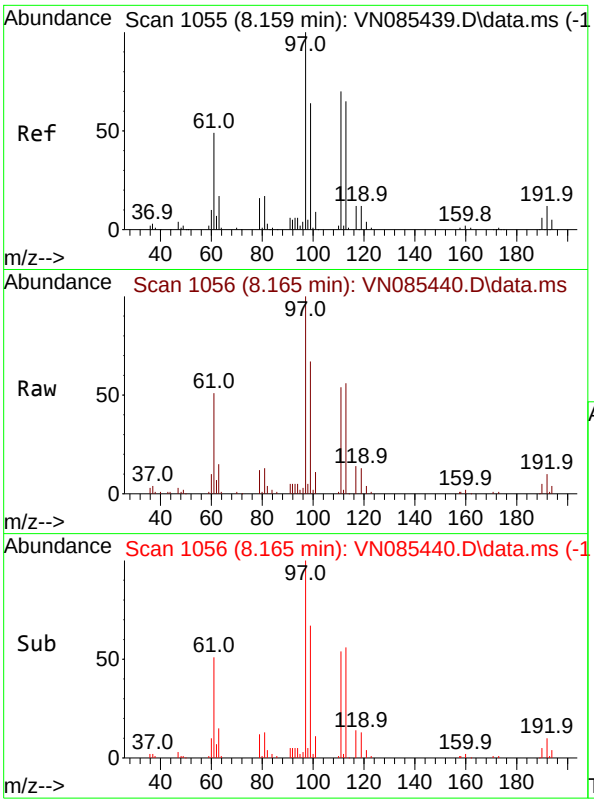


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.094 min Scan# 1214
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:114 Resp: 340593

Ion	Ratio	Lower	Upper
114	100		
63	21.6	0.0	47.6
88	16.0	0.0	32.6



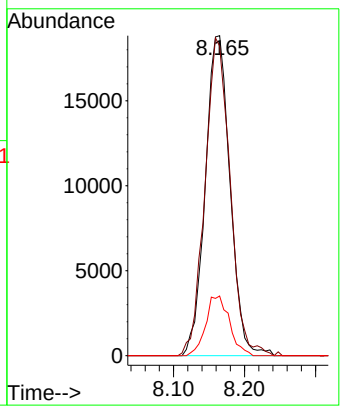


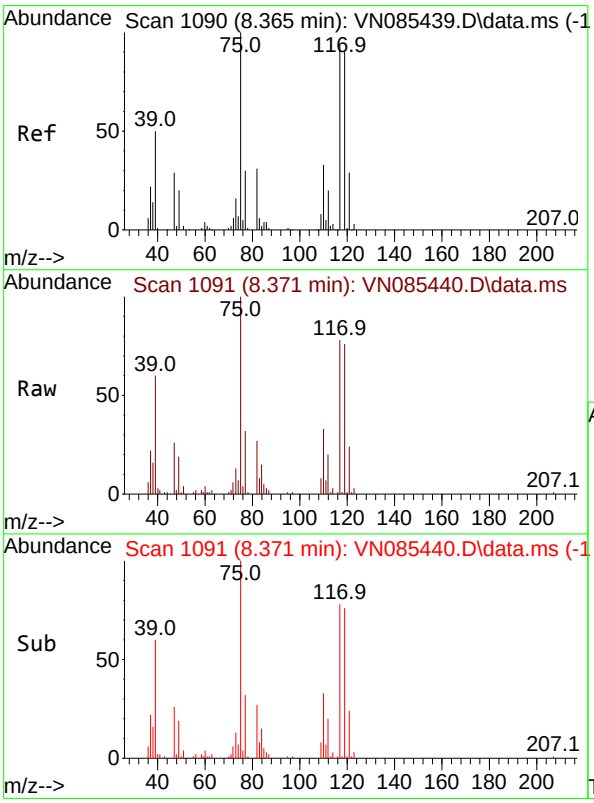
#35
Dibromofluoromethane
Concen: 19.322 ug/l
RT: 8.165 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion:113 Resp: 45655

Ion	Ratio	Lower	Upper
113	100		
111	100.6	82.7	124.1
192	17.9	14.3	21.5

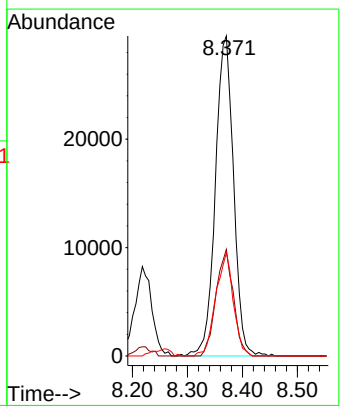


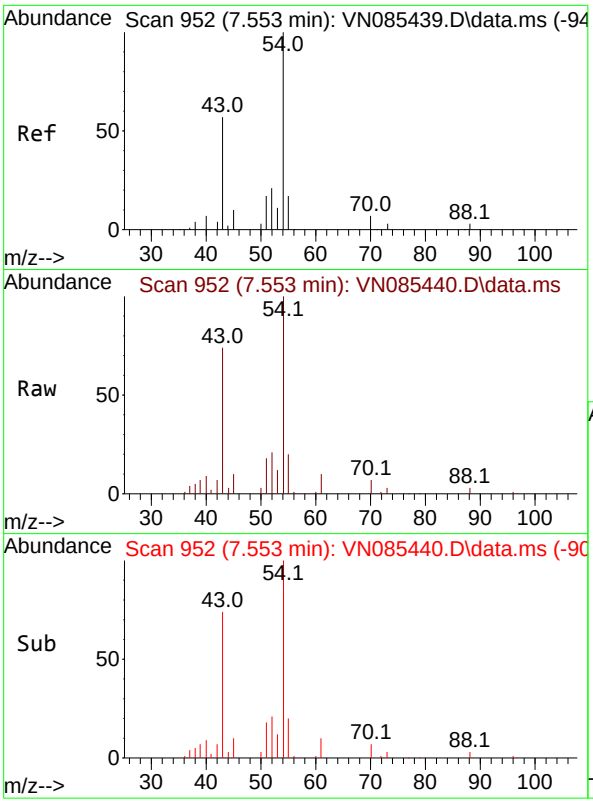


#36
1,1-Dichloropropene
Concen: 20.490 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. 0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 75 Resp: 67949

Ion	Ratio	Lower	Upper
75	100		
110	31.8	16.5	49.5
77	31.1	24.4	36.6



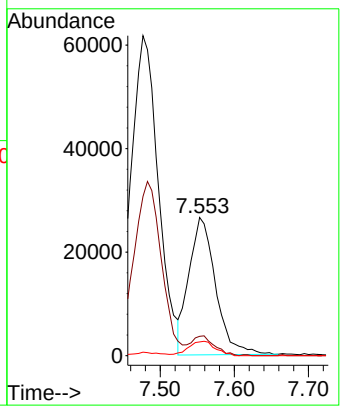


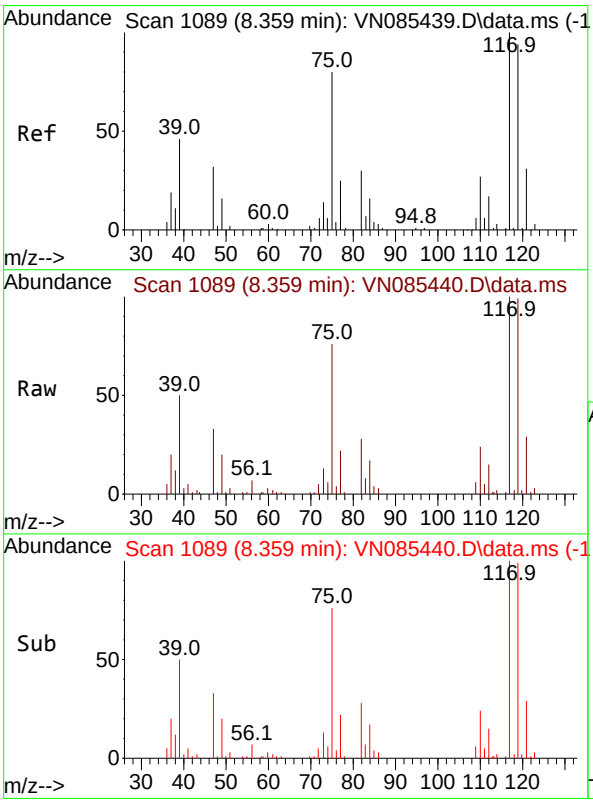
#37
Ethyl Acetate
Concen: 19.850 ug/l
RT: 7.553 min Scan# 9
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 66443

Ion	Ratio	Lower	Upper
43	100		
61	11.9	10.9	16.3
70	10.6	7.5	11.3

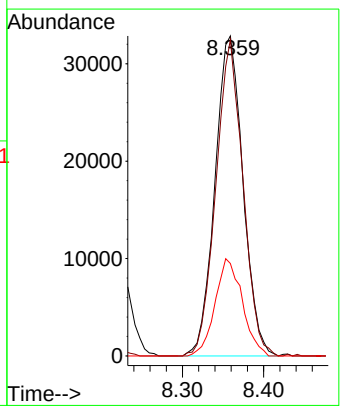


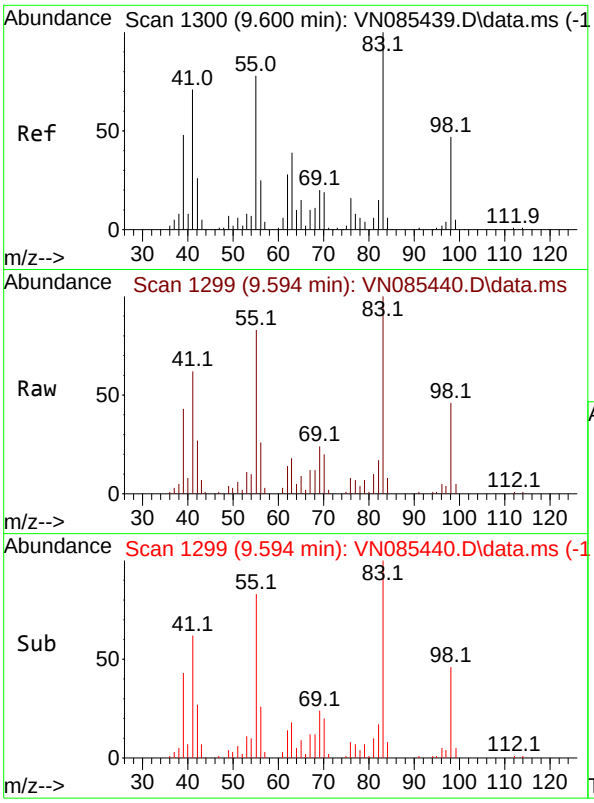


#38
Carbon Tetrachloride
Concen: 20.767 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:117 Resp: 78842

Ion	Ratio	Lower	Upper
117	100		
119	98.9	75.4	113.2
121	28.9	24.6	37.0



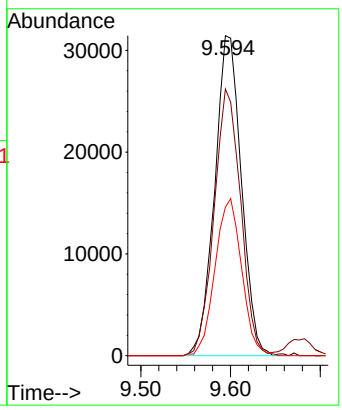


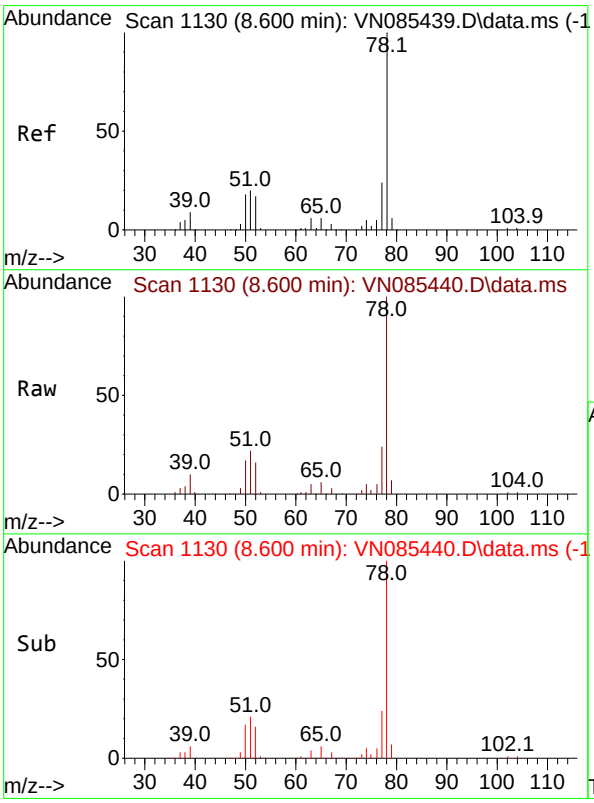
#39
Methylcyclohexane
Concen: 20.862 ug/l
RT: 9.594 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 83 Resp: 65012

Ion	Ratio	Lower	Upper
83	100		
55	83.4	62.6	94.0
98	46.4	37.7	56.5

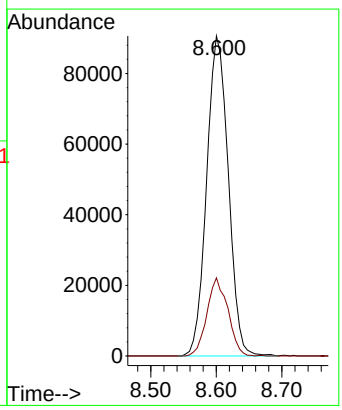


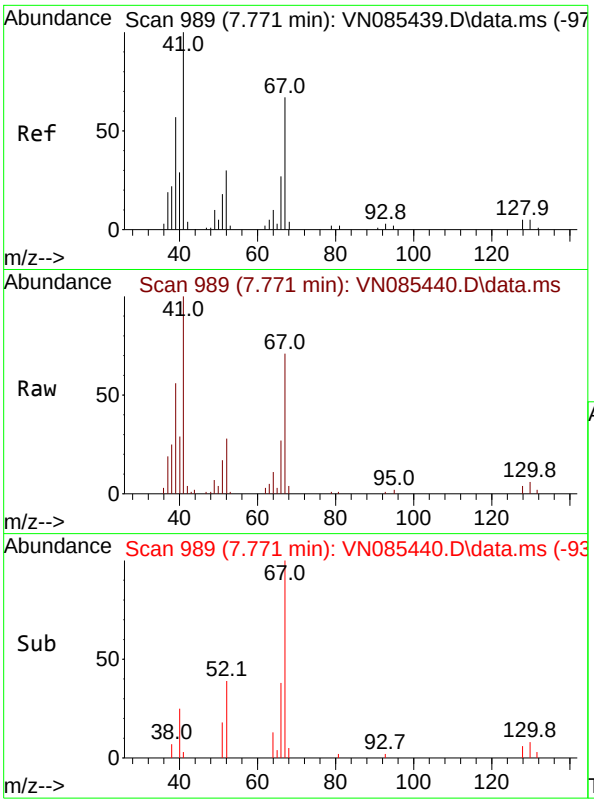


#40
Benzene
Concen: 20.873 ug/l
RT: 8.600 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 78 Resp: 207985

Ion	Ratio	Lower	Upper
78	100		
77	24.4	19.0	28.6



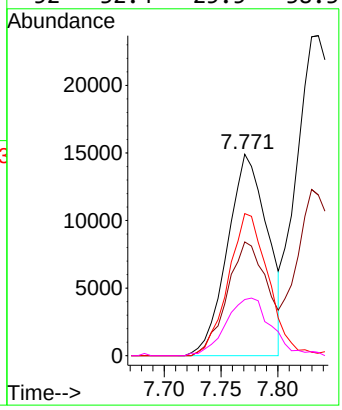


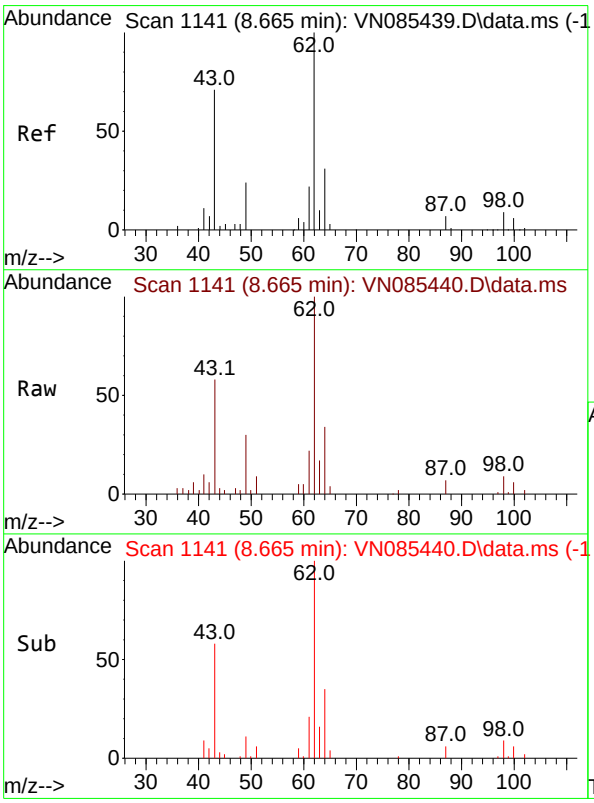
#41
Methacrylonitrile
Concen: 21.004 ug/l
RT: 7.771 min Scan# 9
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 41 Resp: 36578

Ion	Ratio	Lower	Upper
41	100		
39	56.6	46.0	69.0
67	70.3	57.4	86.2
52	32.4	25.5	38.3

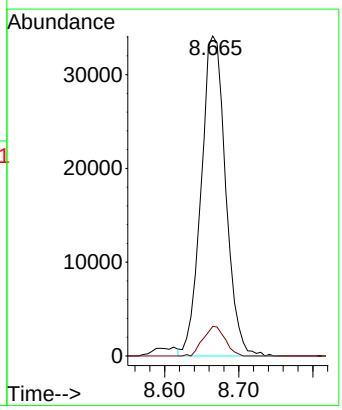


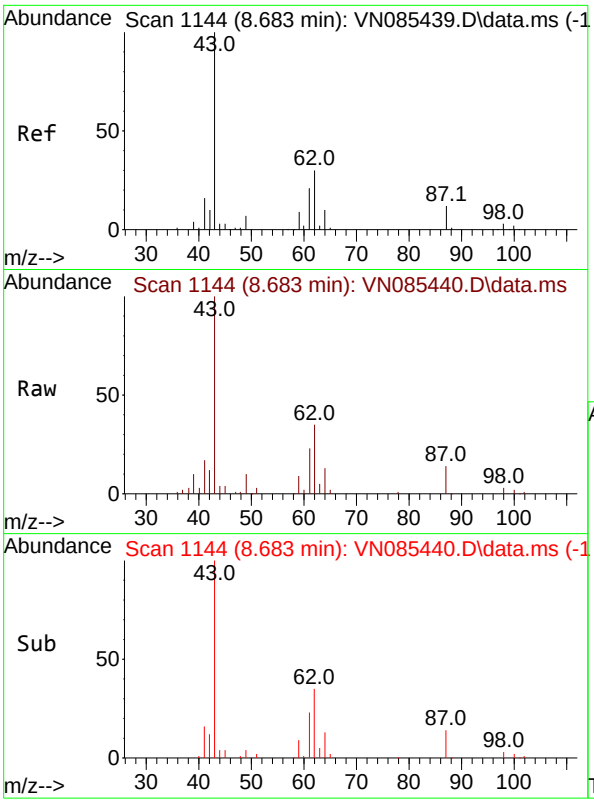


#42
1,2-Dichloroethane
Concen: 20.891 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 62 Resp: 78402

Ion	Ratio	Lower	Upper
62	100		
98	8.3	0.0	17.0



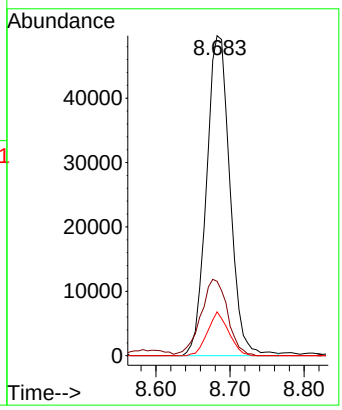


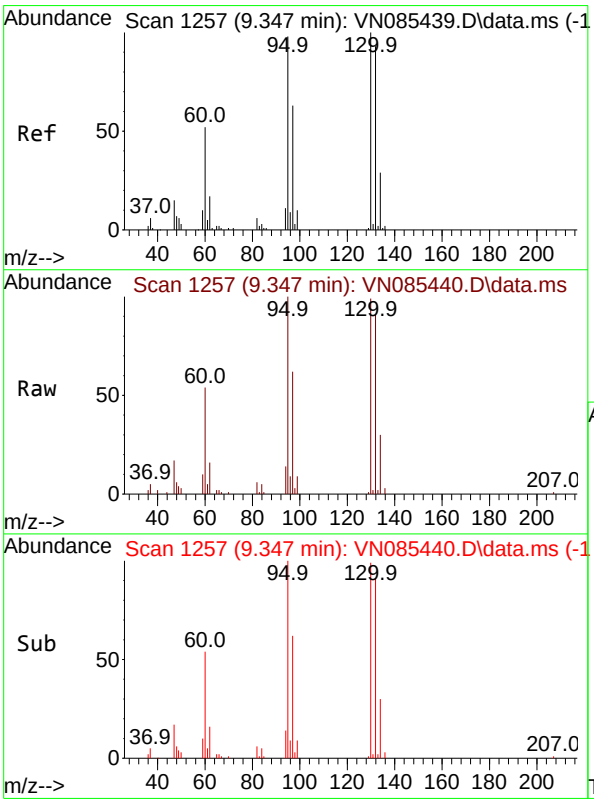
#43
Isopropyl Acetate
Concen: 20.347 ug/l
RT: 8.683 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 109131

Ion	Ratio	Lower	Upper
43	100		
61	27.2	20.7	31.1
87	12.3	9.8	14.8

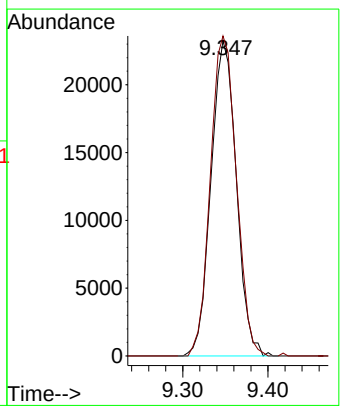


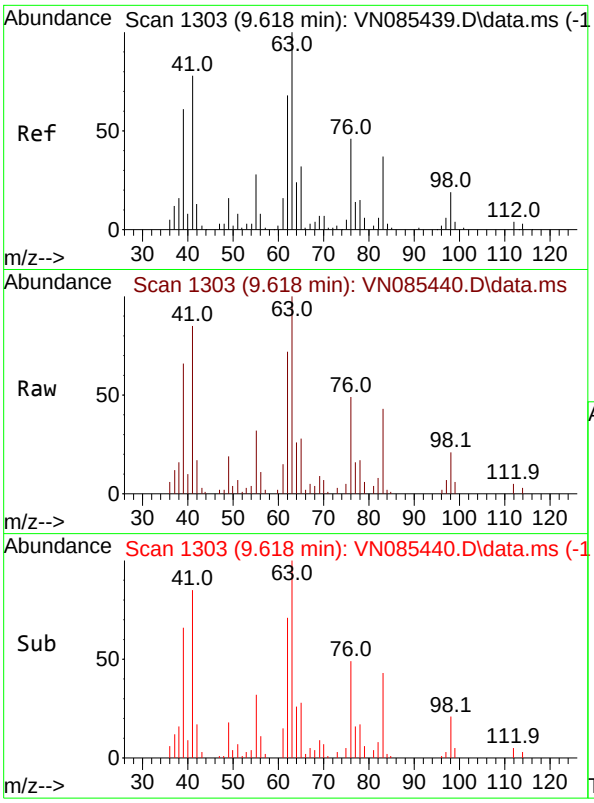


#44
Trichloroethene
Concen: 20.699 ug/l
RT: 9.347 min Scan# 1257
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:130 Resp: 48009

Ion	Ratio	Lower	Upper
130	100		
95	101.5	0.0	195.8



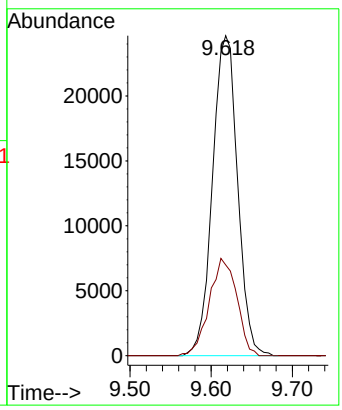


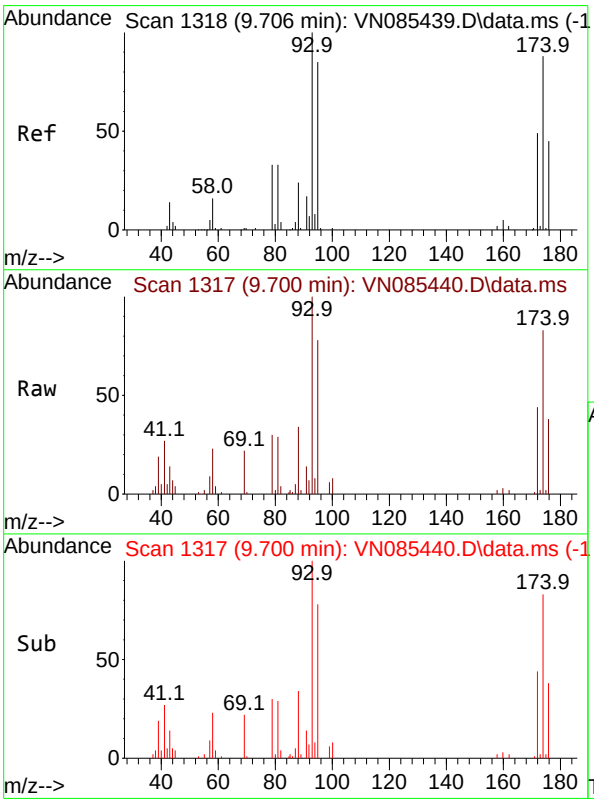
#45
1,2-Dichloropropane
Concen: 20.758 ug/l
RT: 9.618 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 63 Resp: 52833

Ion	Ratio	Lower	Upper
63	100		
65	28.3	25.6	38.4

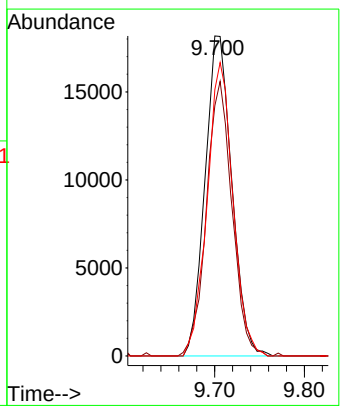


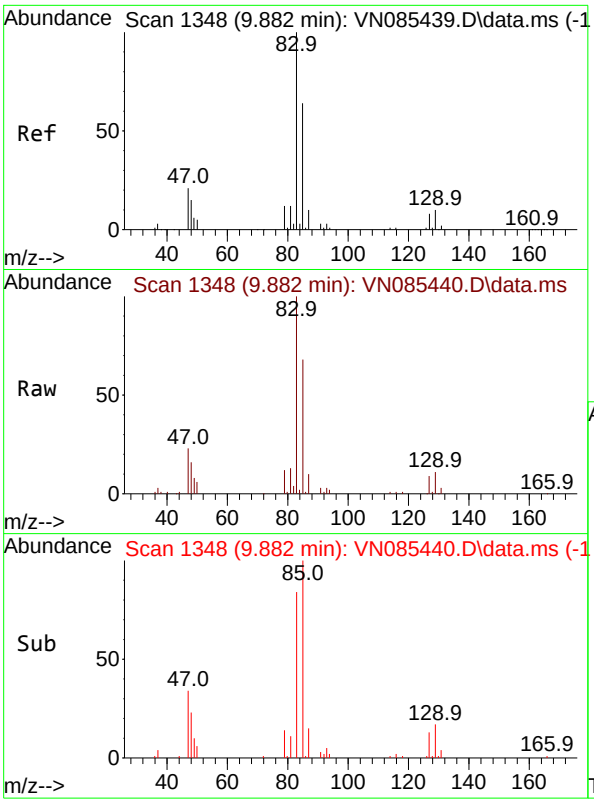


#46
Dibromomethane
Concen: 20.540 ug/l
RT: 9.700 min Scan# 1317
Delta R.T. -0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 93 Resp: 37721

Ion	Ratio	Lower	Upper
93	100		
95	82.0	64.7	97.1
174	88.4	69.0	103.4



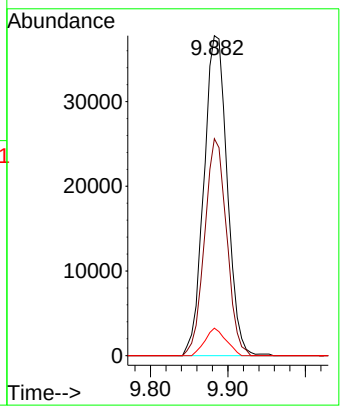


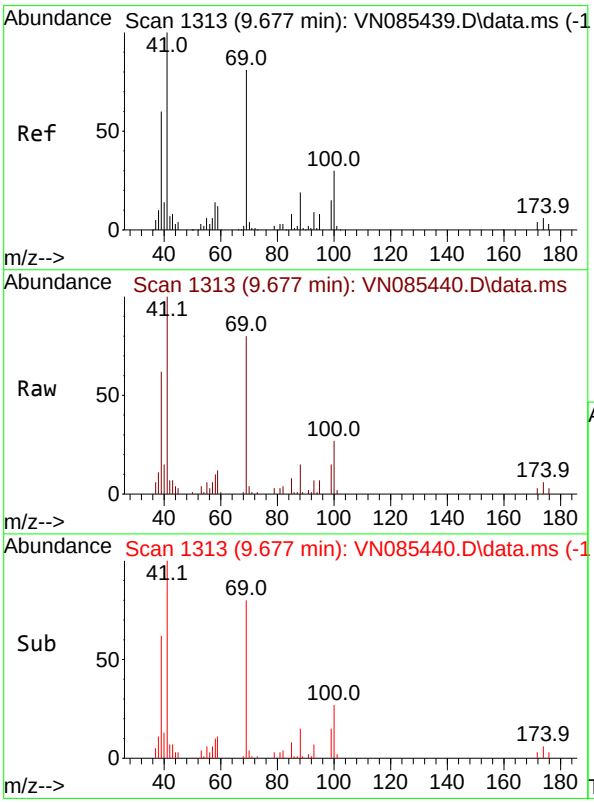
#47
Bromodichloromethane
Concen: 21.093 ug/l
RT: 9.882 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 83 Resp: 78918

Ion	Ratio	Lower	Upper
83	100		
85	67.8	51.2	76.8
127	8.6	6.5	9.7

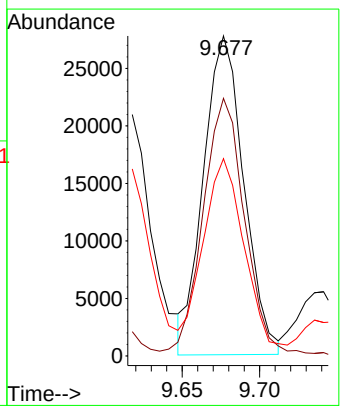


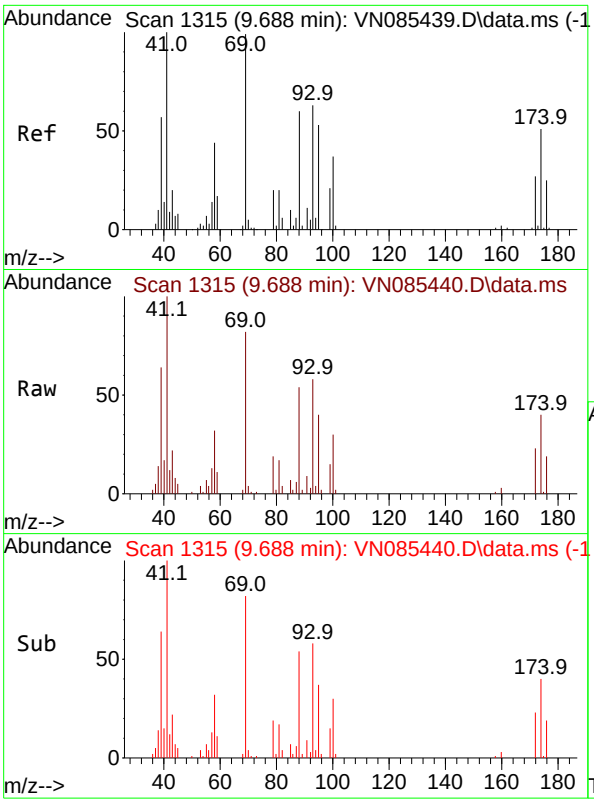


#48
Methyl methacrylate
Concen: 20.808 ug/l
RT: 9.677 min Scan# 1313
Delta R.T. -0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 41 Resp: 50224

Ion	Ratio	Lower	Upper
41	100		
69	84.3	64.7	97.1
39	64.2	49.0	73.6



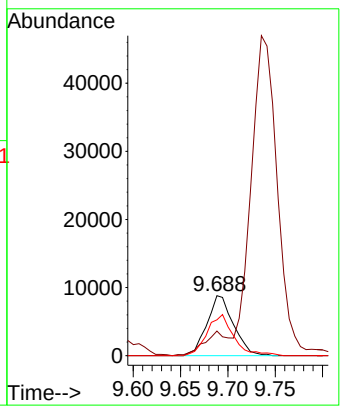


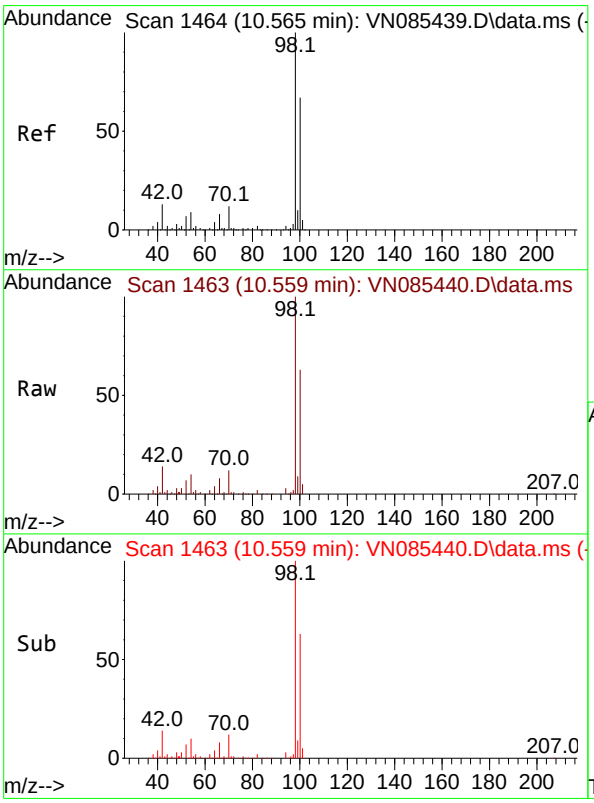
#49
1,4-Dioxane
Concen: 421.686 ug/l
RT: 9.688 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 88 Resp: 17140

Ion	Ratio	Lower	Upper
88	100		
43	34.9	26.6	39.8
58	69.0	59.5	89.3

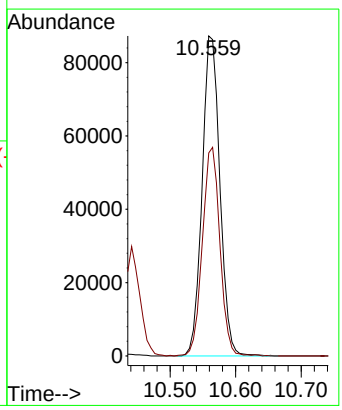


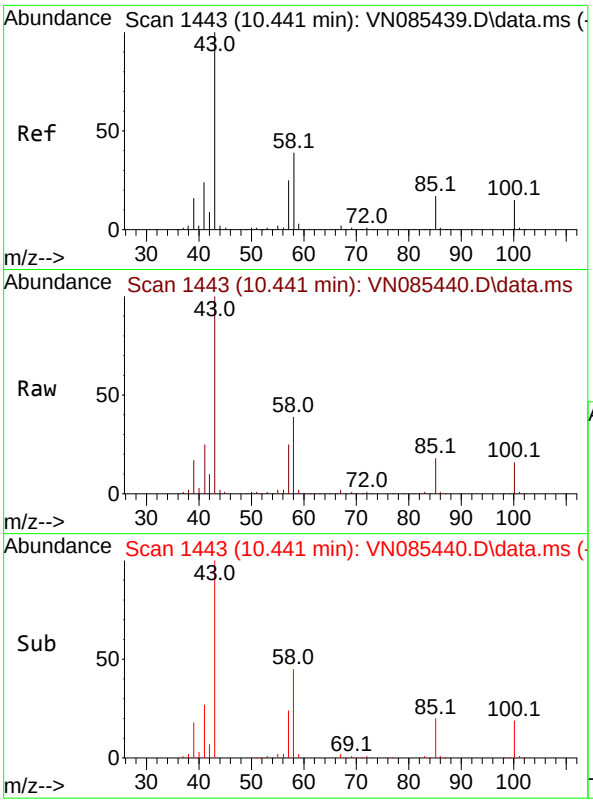


#50
Toluene-d8
Concen: 19.581 ug/l
RT: 10.559 min Scan# 1463
Delta R.T. -0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 98 Resp: 164391

Ion	Ratio	Lower	Upper
98	100		
100	64.4	52.2	78.4



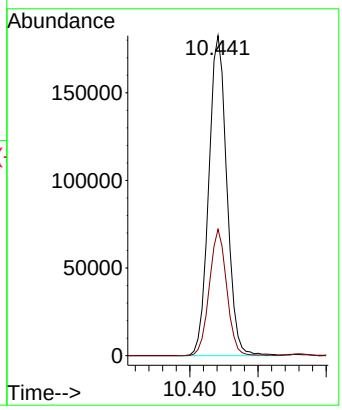


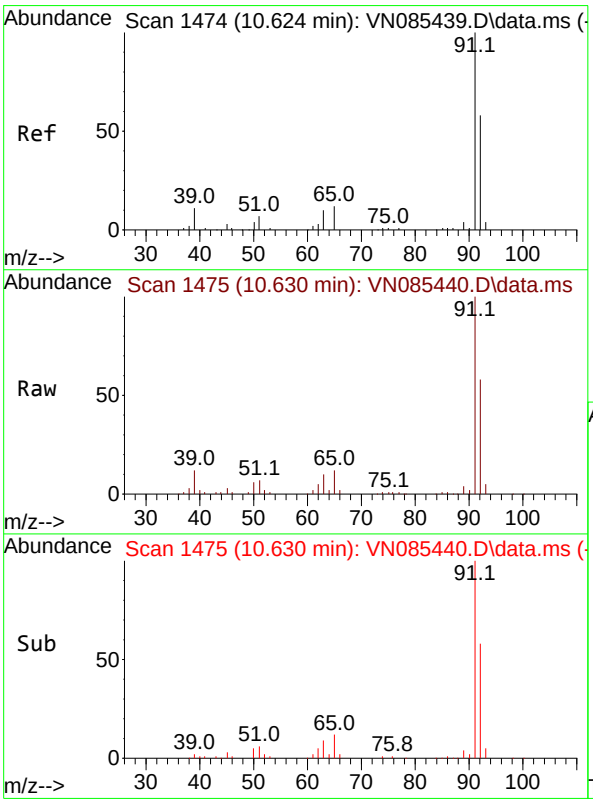
#51
4-Methyl-2-Pentanone
Concen: 108.249 ug/l
RT: 10.441 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 336911

Ion	Ratio	Lower	Upper
43	100		
58	38.1	30.5	45.7

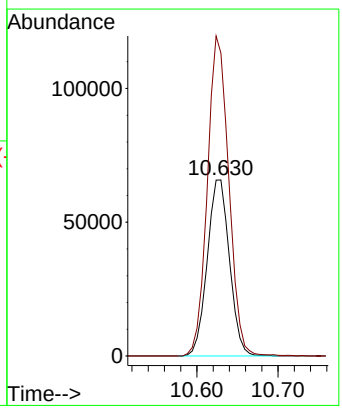


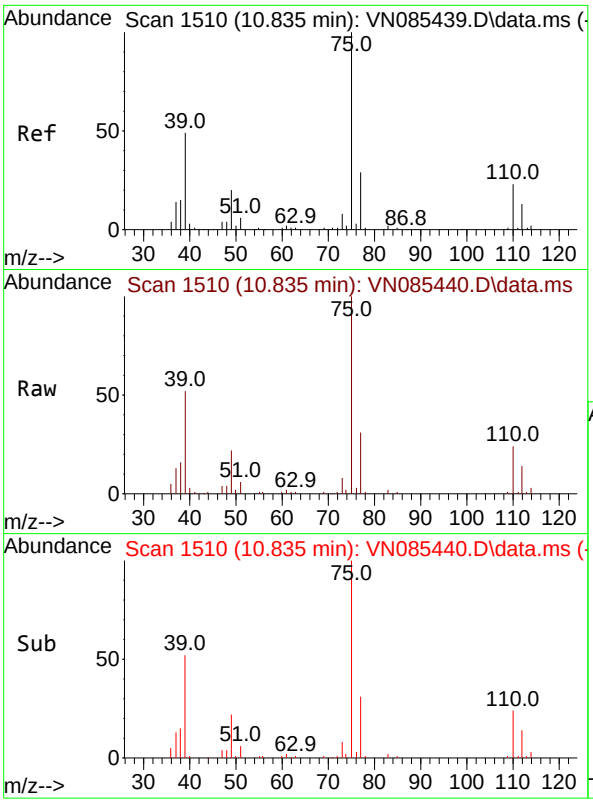


#52
Toluene
Concen: 21.680 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. 0.005 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 92 Resp: 125172

Ion	Ratio	Lower	Upper
92	100		
91	175.1	139.2	208.8



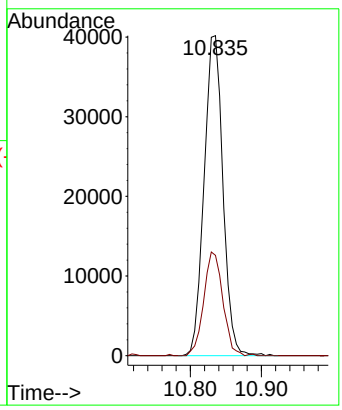


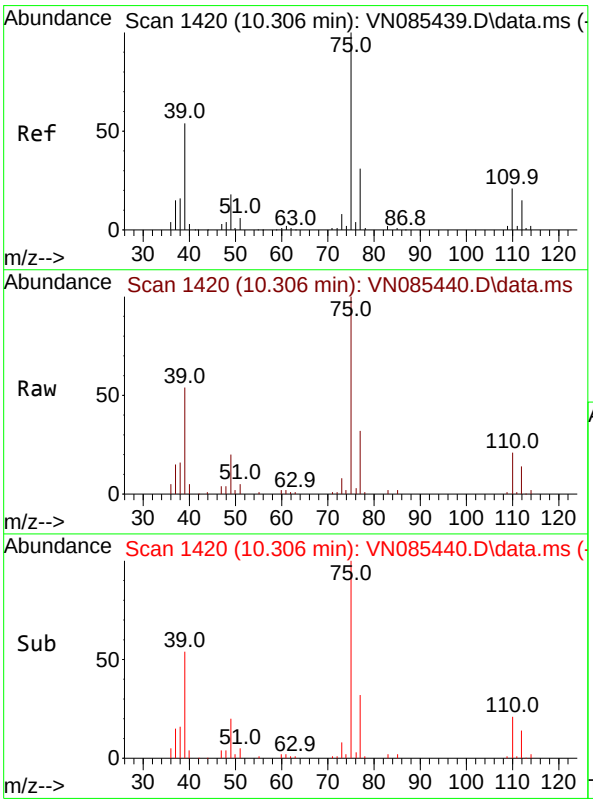
#53
t-1,3-Dichloropropene
Concen: 20.965 ug/l
RT: 10.835 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 75 Resp: 74129

Ion	Ratio	Lower	Upper
75	100		
77	31.4	23.5	35.3

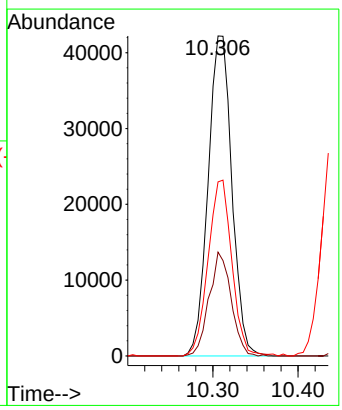


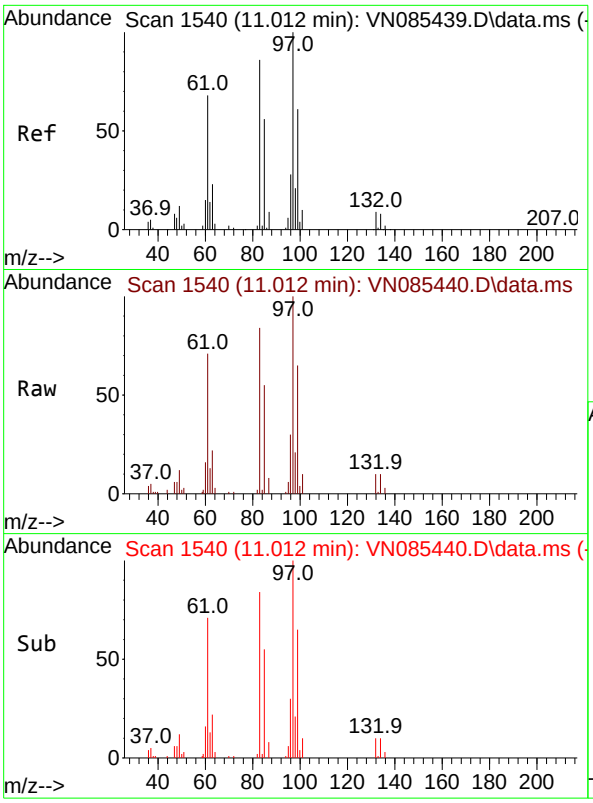


#54
cis-1,3-Dichloropropene
Concen: 21.684 ug/l
RT: 10.306 min Scan# 1420
Delta R.T. -0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 75 Resp: 81897

Ion	Ratio	Lower	Upper
75	100		
77	32.4	25.0	37.4
39	54.4	43.1	64.7



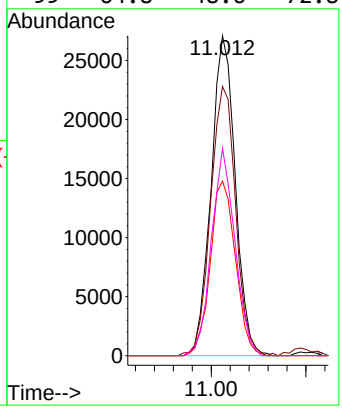


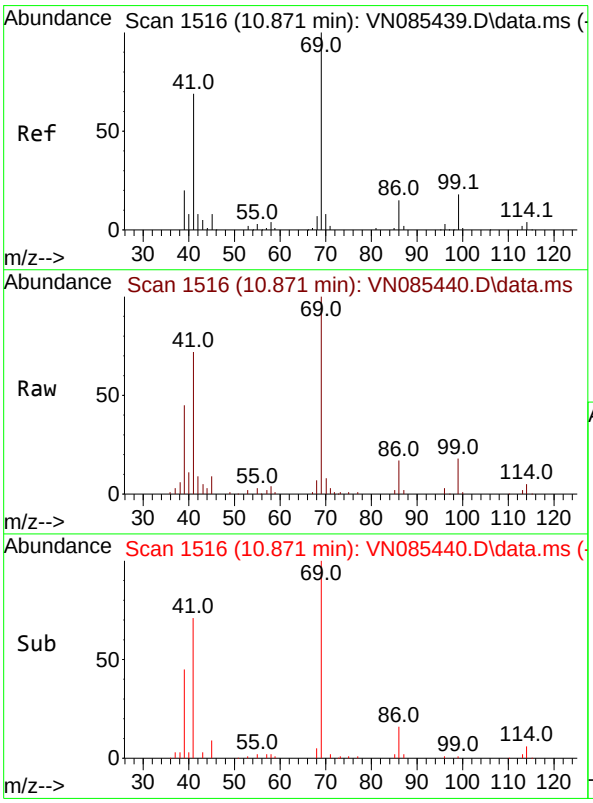
#55
1,1,2-Trichloroethane
Concen: 21.025 ug/l
RT: 11.012 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 97 Resp: 48039

Ion	Ratio	Lower	Upper
97	100		
83	84.1	69.0	103.6
85	54.6	44.6	66.8
99	64.8	48.6	72.8

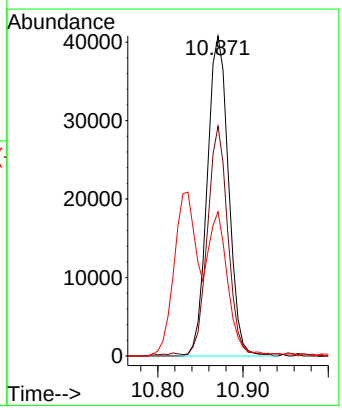


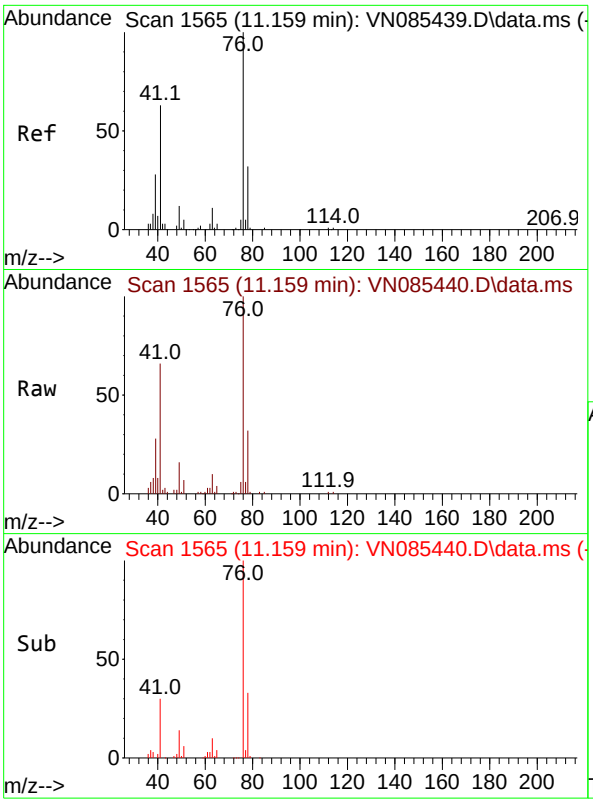


#56
Ethyl methacrylate
Concen: 19.649 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 69 Resp: 70934

Ion	Ratio	Lower	Upper
69	100		
41	67.6	54.6	82.0
39	41.7	32.4	48.6



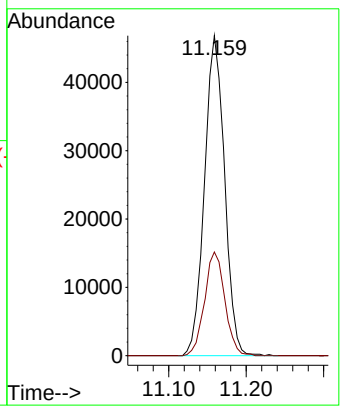


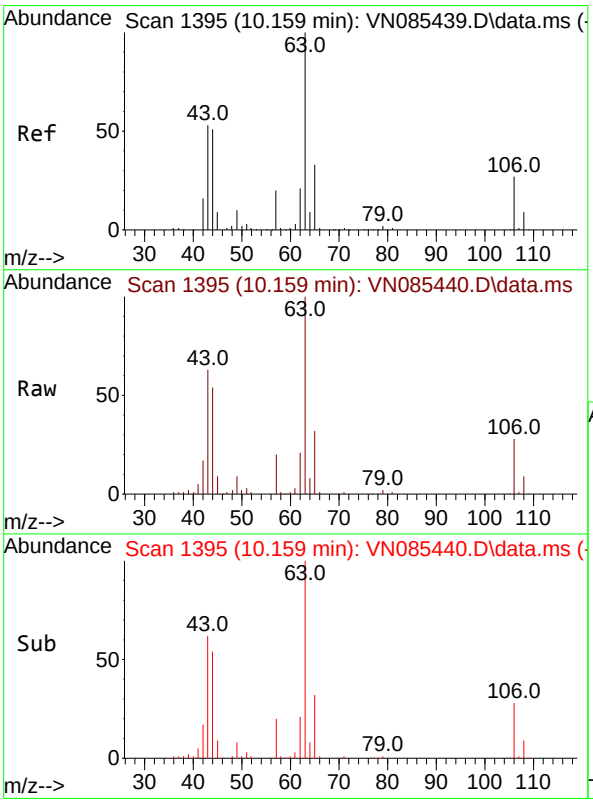
#57
1,3-Dichloropropane
Concen: 21.196 ug/l
RT: 11.159 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 76 Resp: 84210

Ion	Ratio	Lower	Upper
76	100		
78	32.7	25.6	38.4

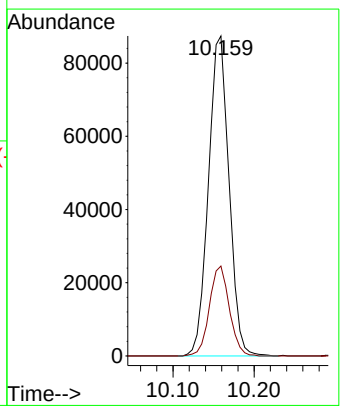


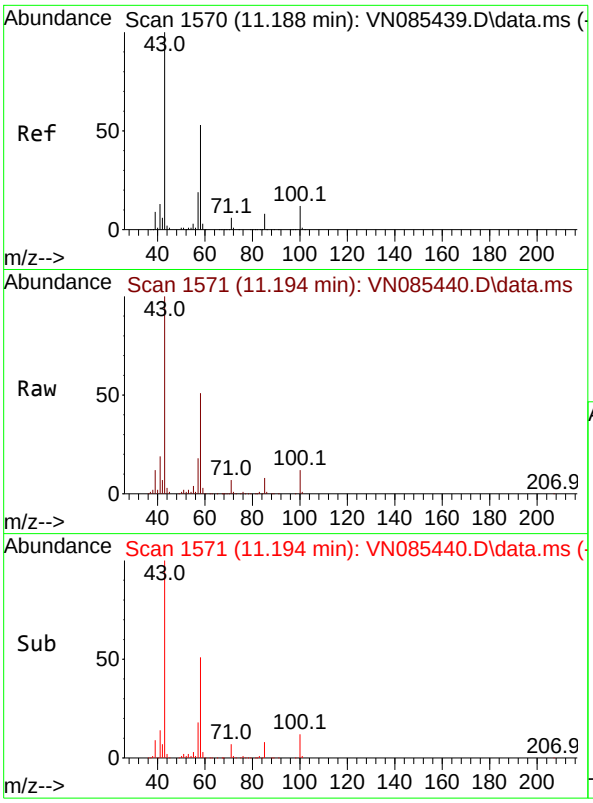


#58
2-Chloroethyl Vinyl ether
Concen: 105.991 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 63 Resp: 153681

Ion	Ratio	Lower	Upper
63	100		
106	27.2	21.6	32.4



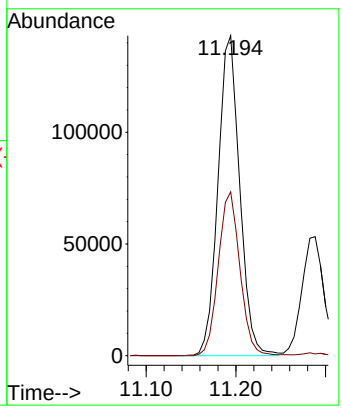


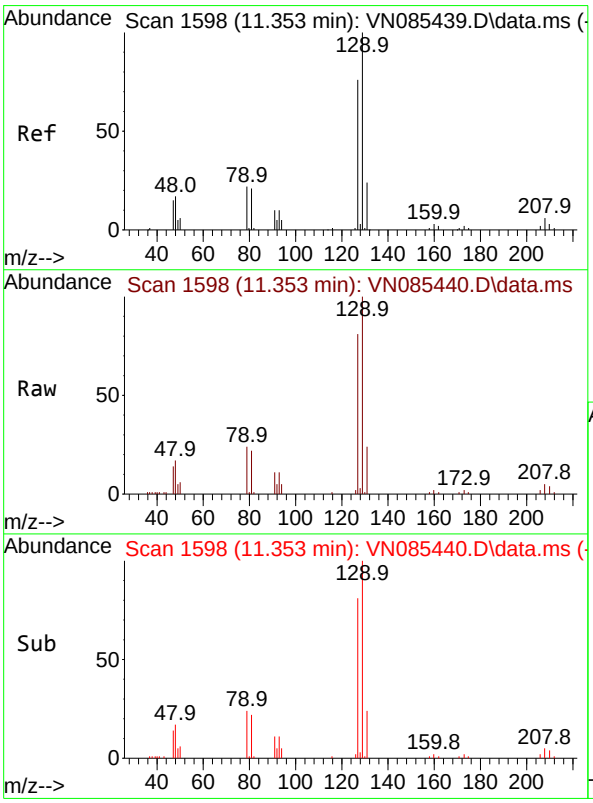
#59
2-Hexanone
Concen: 109.863 ug/l
RT: 11.194 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 240595

Ion	Ratio	Lower	Upper
43	100		
58	51.1	26.2	78.6

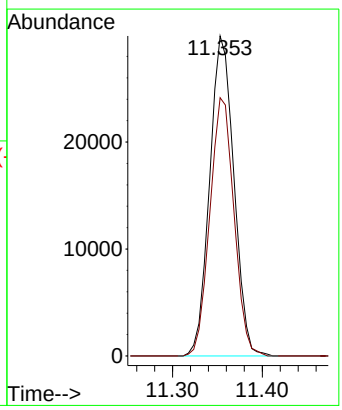


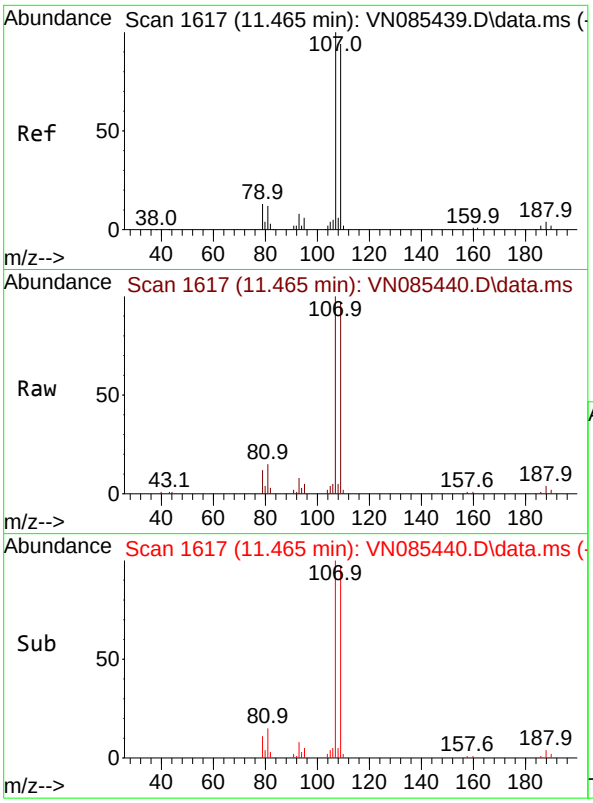


#60
Dibromochloromethane
Concen: 20.326 ug/l
RT: 11.353 min Scan# 1598
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:129 Resp: 56069

Ion	Ratio	Lower	Upper
129	100		
127	80.4	38.6	115.8



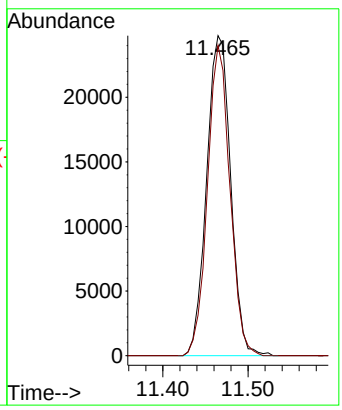


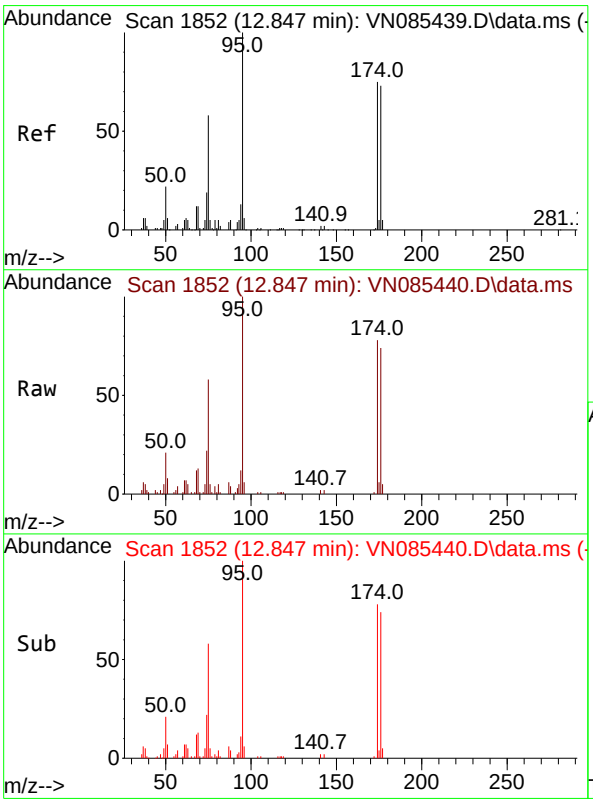
#61
1,2-Dibromoethane
Concen: 21.309 ug/l
RT: 11.465 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion:107 Resp: 48465

Ion	Ratio	Lower	Upper
107	100		
109	90.6	75.9	113.9

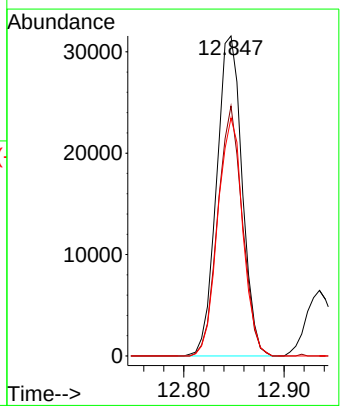


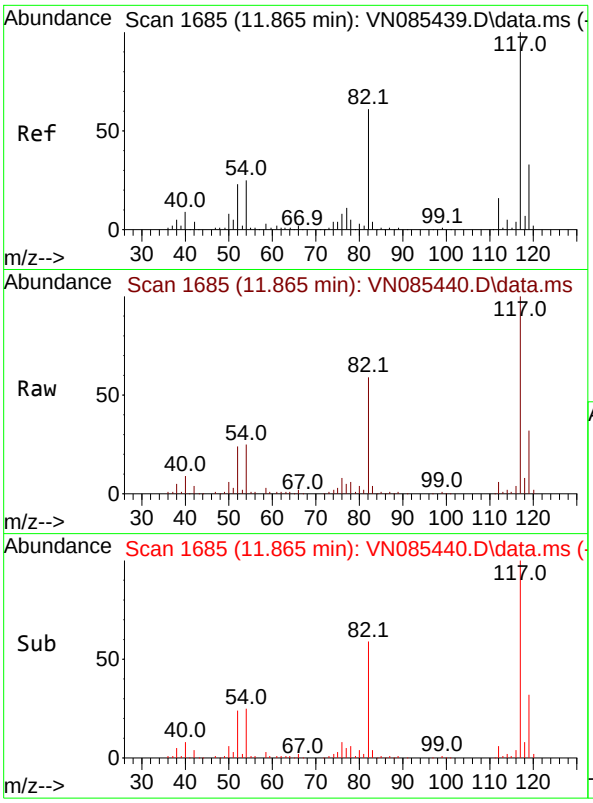


#62
4-Bromofluorobenzene
Concen: 19.430 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 95 Resp: 55798

Ion	Ratio	Lower	Upper
95	100		
174	75.2	0.0	145.0
176	73.2	0.0	142.4



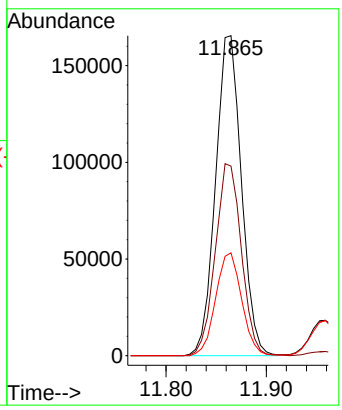


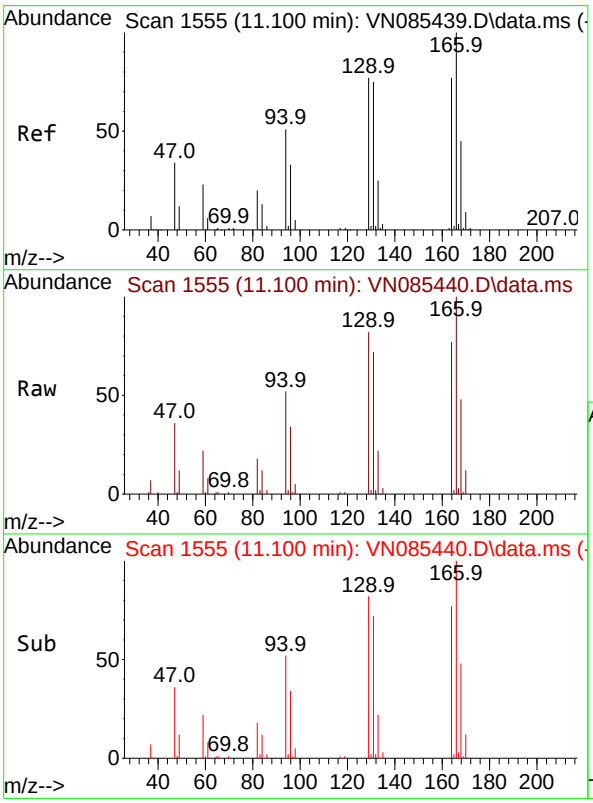
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion:117 Resp: 296298

Ion	Ratio	Lower	Upper
117	100		
82	59.3	48.6	72.8
119	32.2	26.6	39.8

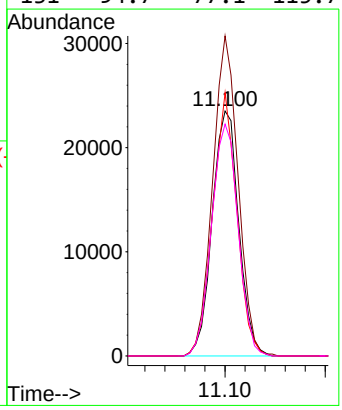


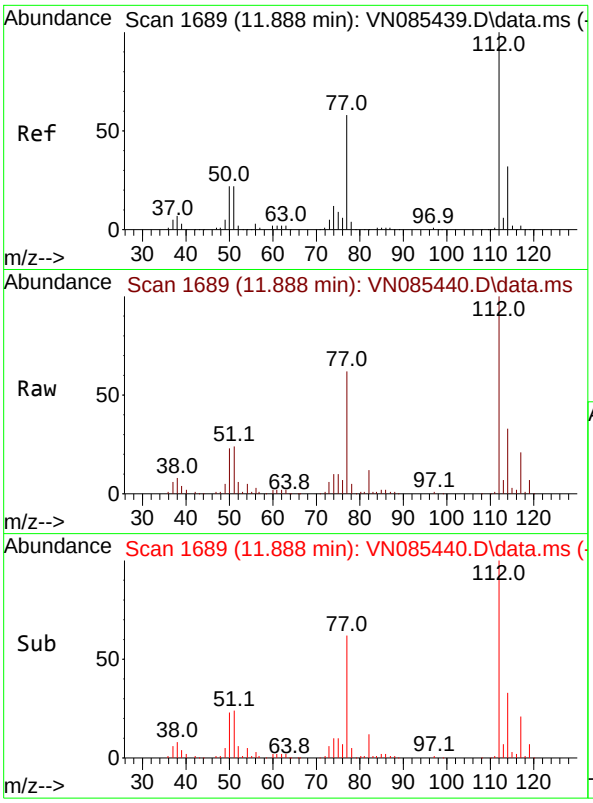


#64
Tetrachloroethene
Concen: 21.408 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:164 Resp: 43243

Ion	Ratio	Lower	Upper
164	100		
166	130.6	103.4	155.2
129	107.4	79.2	118.8
131	94.7	77.1	115.7



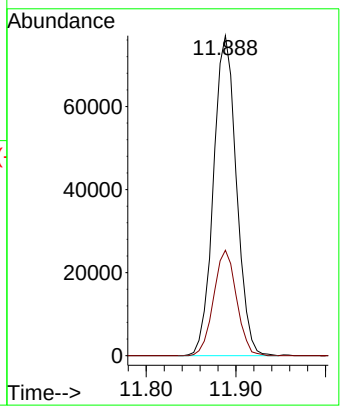


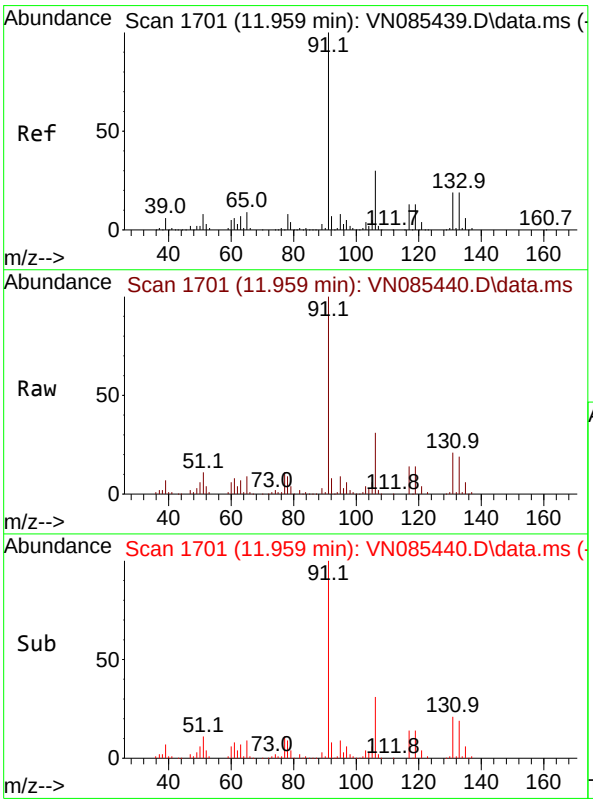
#65
Chlorobenzene
Concen: 21.077 ug/l
RT: 11.888 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion:112 Resp: 136809

Ion	Ratio	Lower	Upper
112	100		
114	32.9	25.3	37.9

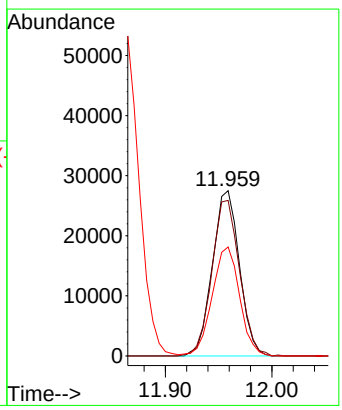


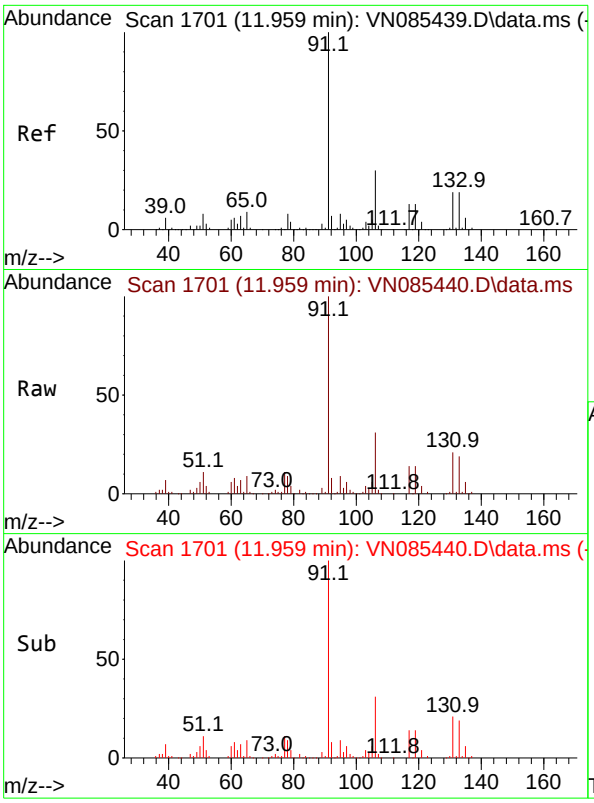


#66
1,1,1,2-Tetrachloroethane
Concen: 20.304 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:131 Resp: 48370

Ion	Ratio	Lower	Upper
131	100		
133	96.9	47.4	142.3
119	67.2	33.1	99.5



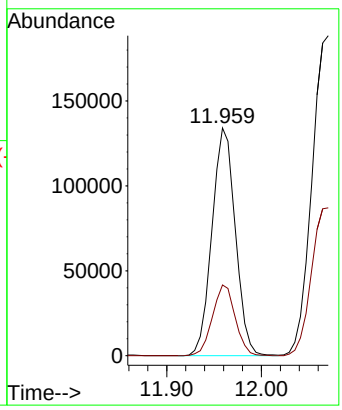


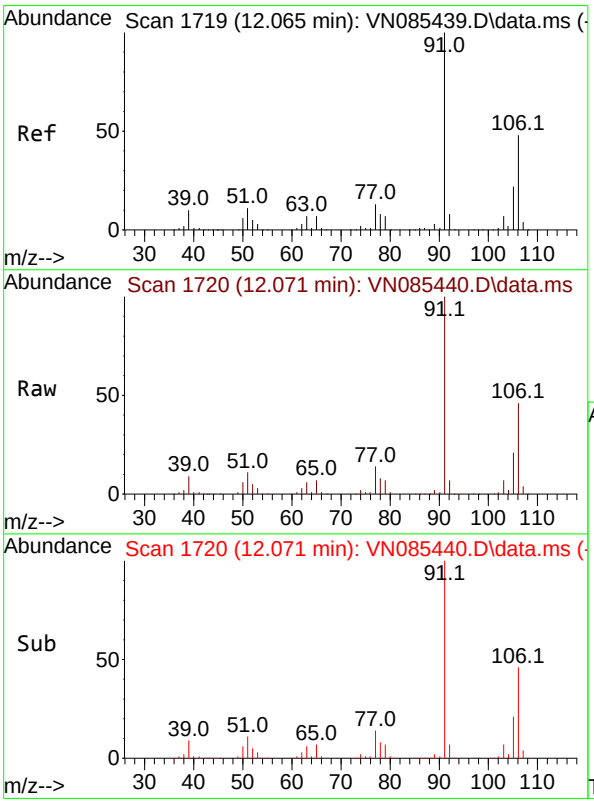
#67
Ethyl Benzene
Concen: 21.753 ug/l
RT: 11.959 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 91 Resp: 229978

Ion	Ratio	Lower	Upper
91	100		
106	31.1	23.8	35.8

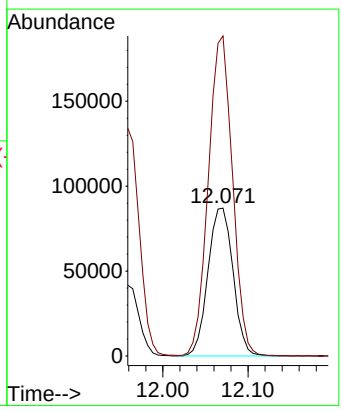


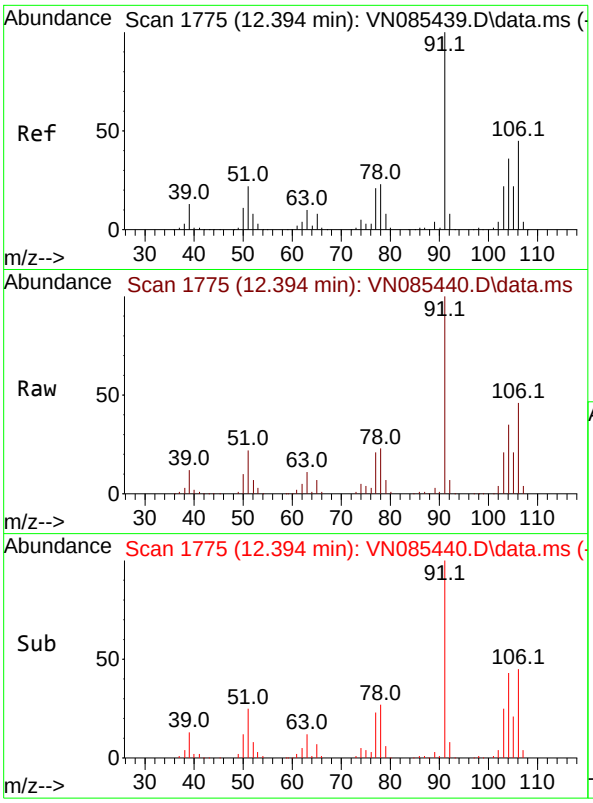


#68
m/p-Xylenes
Concen: 45.494 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. 0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:106 Resp: 177755

Ion	Ratio	Lower	Upper
106	100		
91	209.3	167.7	251.5



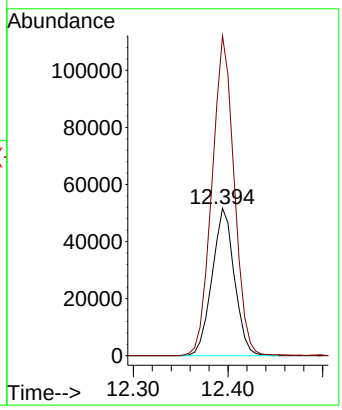


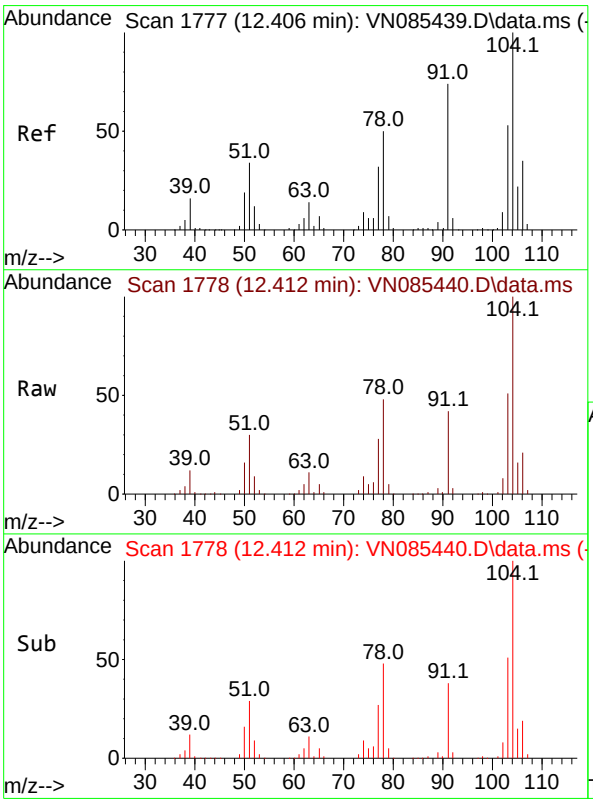
#69
o-Xylene
Concen: 22.643 ug/l
RT: 12.394 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion:106 Resp: 84548

Ion	Ratio	Lower	Upper
106	100		
91	217.0	110.4	331.2

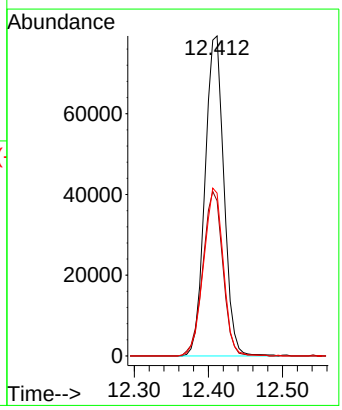


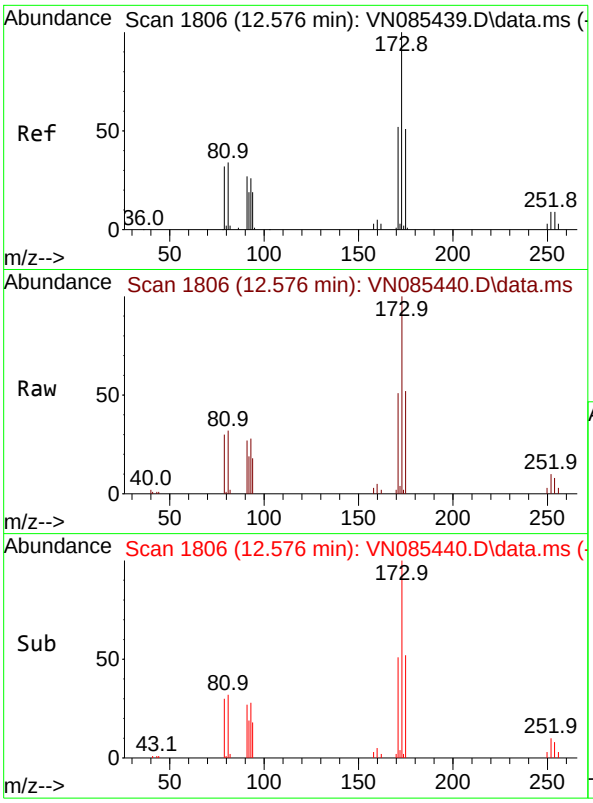


#70
Styrene
Concen: 22.749 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. 0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:104 Resp: 140581

Ion	Ratio	Lower	Upper
104	100		
78	54.4	42.5	63.7
103	54.8	43.8	65.8



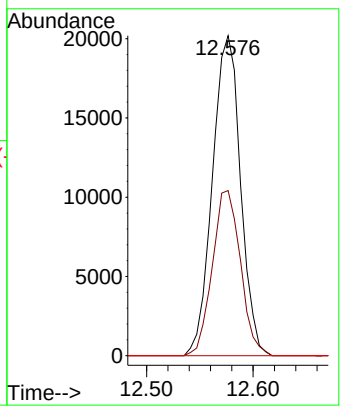


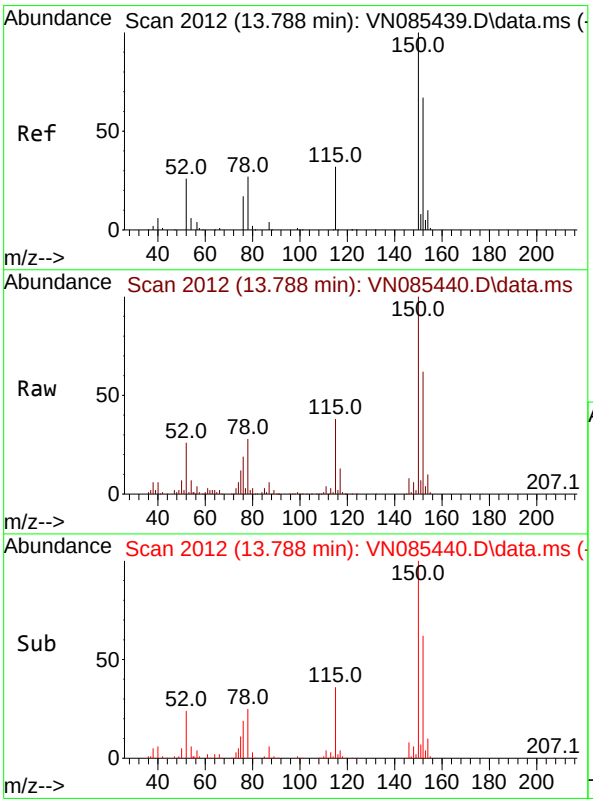
#71
Bromoform
Concen: 21.683 ug/l
RT: 12.576 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion:173 Resp: 36961

Ion	Ratio	Lower	Upper
173	100		
175	51.7	24.4	73.2
254	0.0	0.0	0.0

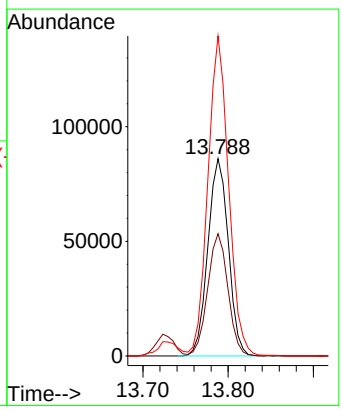


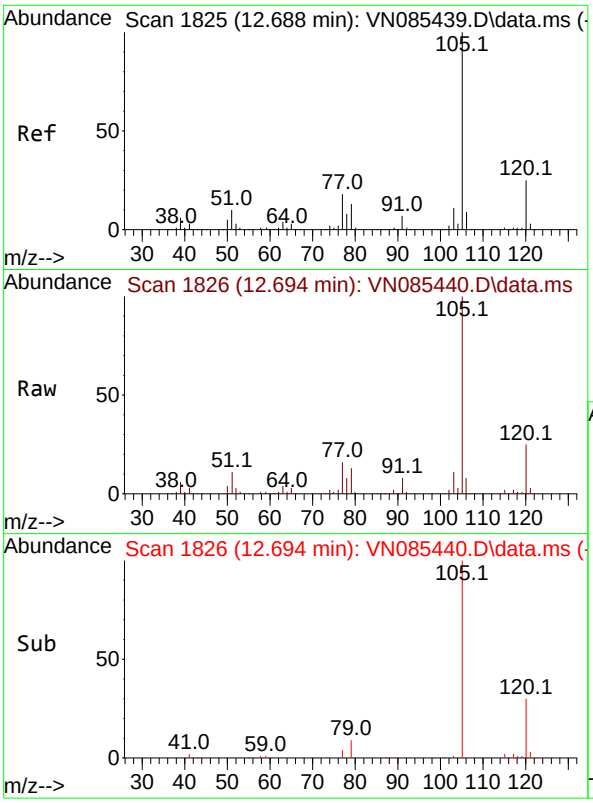


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:152 Resp: 143526

Ion	Ratio	Lower	Upper
152	100		
115	61.4	31.1	93.3
150	163.9	0.0	343.6



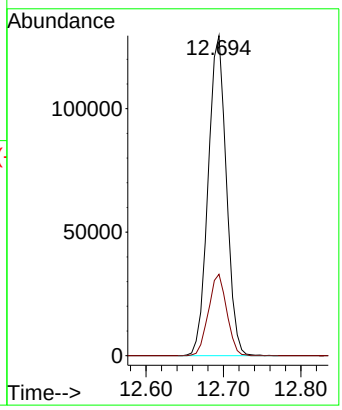


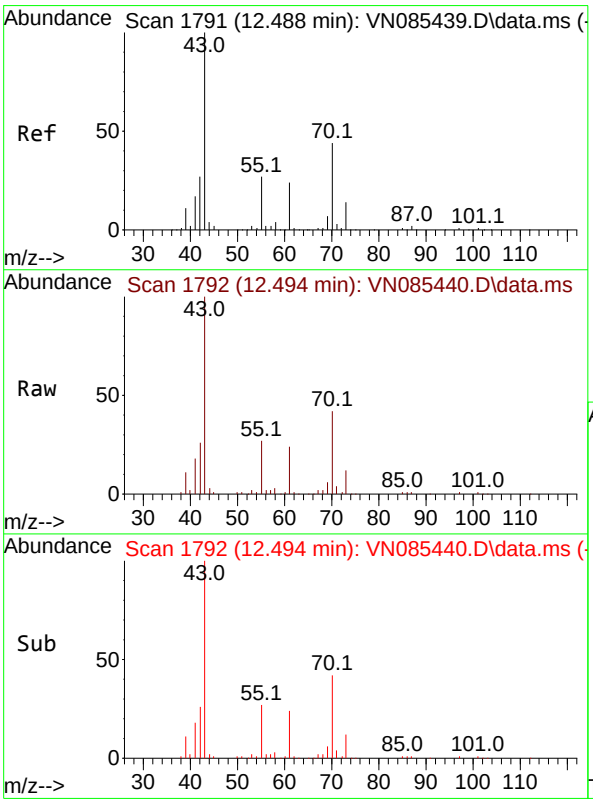
#73
Isopropylbenzene
Concen: 21.819 ug/l
RT: 12.694 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion:105 Resp: 211354

Ion	Ratio	Lower	Upper
105	100		
120	25.5	12.8	38.3

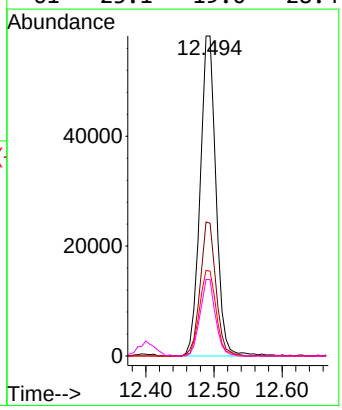


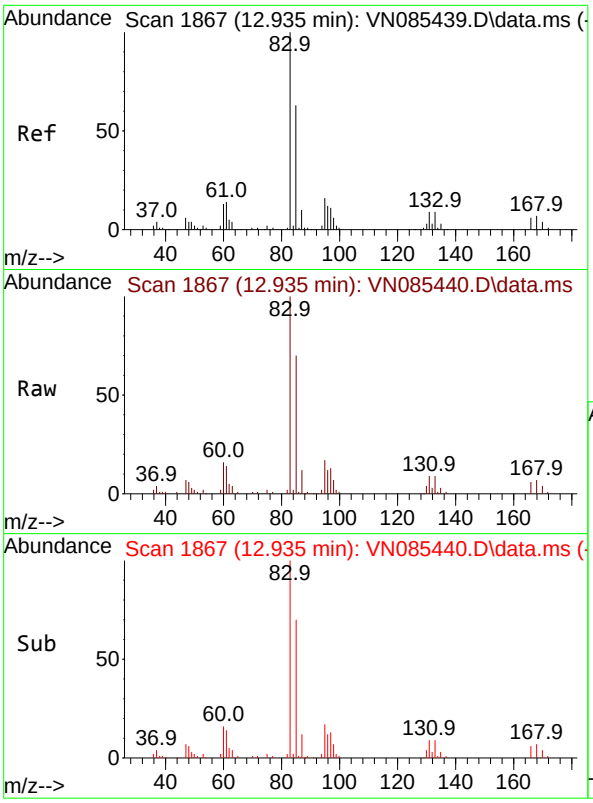


#74
N-amyl acetate
Concen: 21.656 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. 0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 43 Resp: 94292

Ion	Ratio	Lower	Upper
43	100		
70	41.4	34.0	51.0
55	27.9	21.4	32.2
61	23.1	19.0	28.4



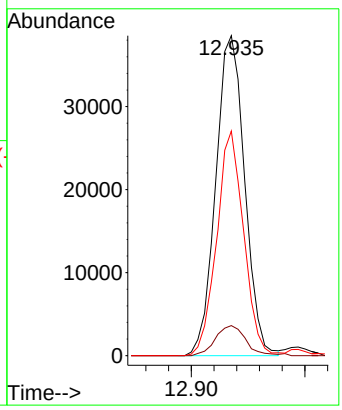


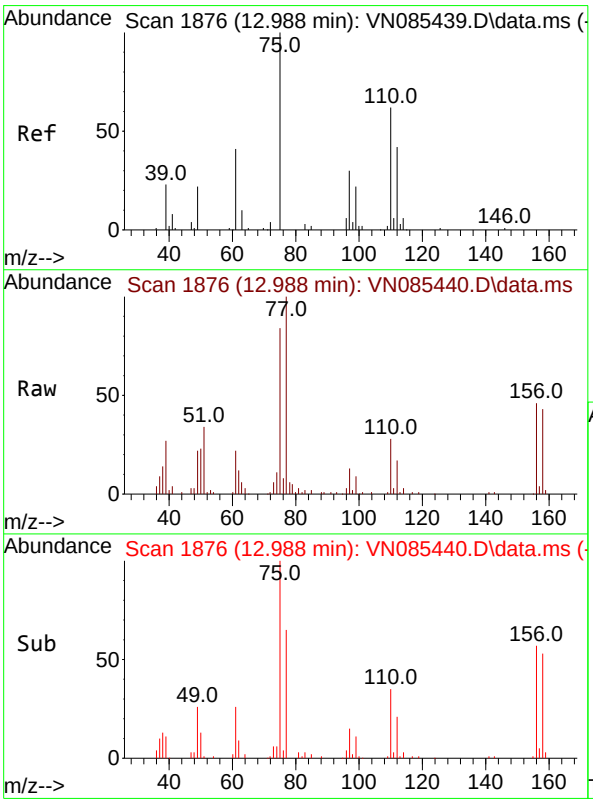
#75
1,1,2,2-Tetrachloroethane
Concen: 19.917 ug/l
RT: 12.935 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 83 Resp: 68151

Ion	Ratio	Lower	Upper
83	100		
131	9.9	4.8	14.4
85	65.5	32.2	96.6

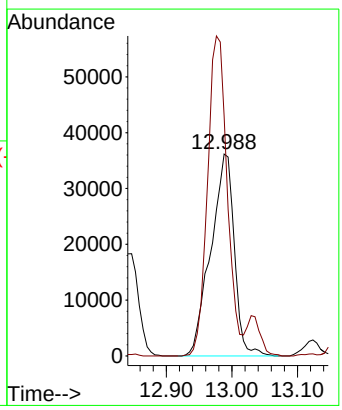


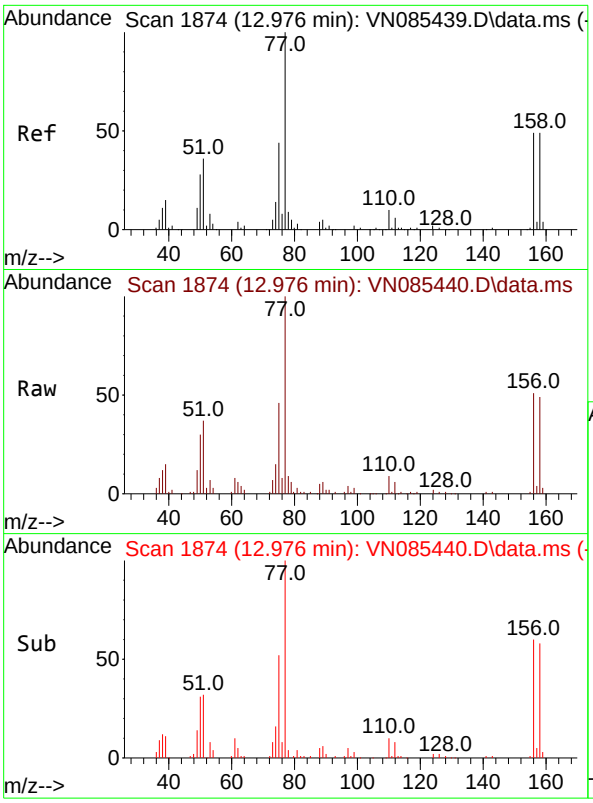


#76
1,2,3-Trichloropropane
Concen: 30.902 ug/l
RT: 12.988 min Scan# 1876
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 75 Resp: 90004

Ion	Ratio	Lower	Upper
75	100		
77	133.2	109.7	329.2



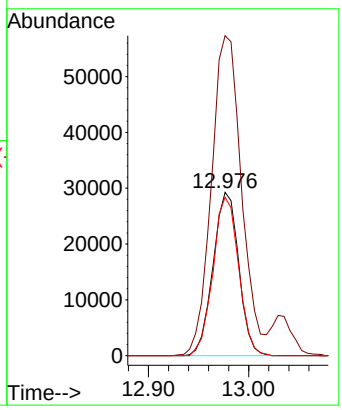


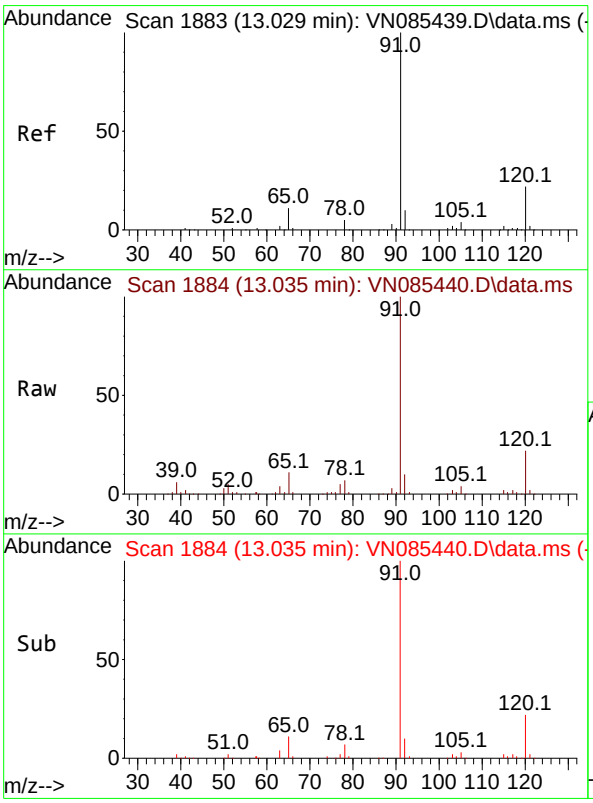
#77
Bromobenzene
Concen: 20.556 ug/l
RT: 12.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion:156 Resp: 52022

Ion	Ratio	Lower	Upper
156	100		
77	230.4	114.1	342.4
158	97.0	48.9	146.8

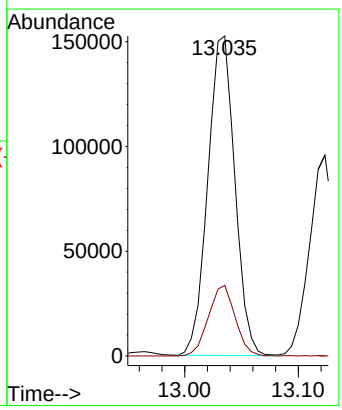


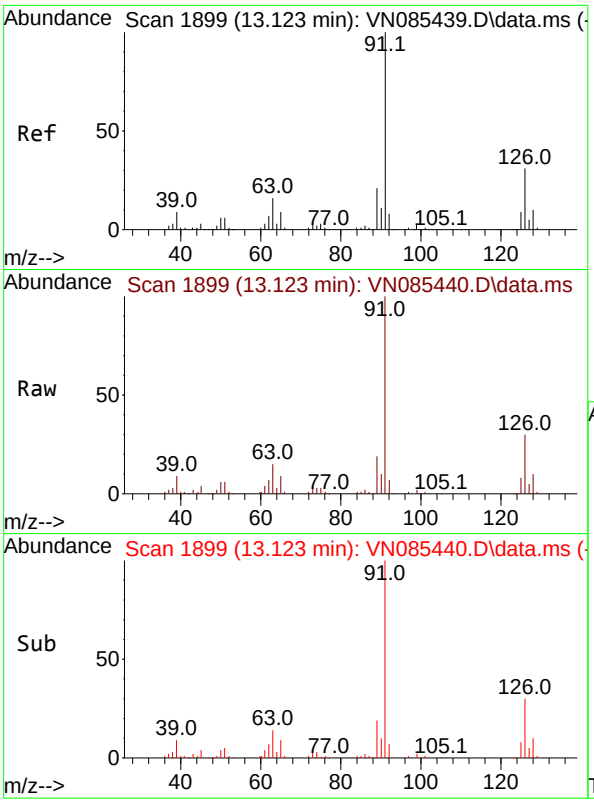


#78
n-propylbenzene
Concen: 22.028 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 91 Resp: 252610

Ion	Ratio	Lower	Upper
91	100		
120	21.8	10.9	32.6



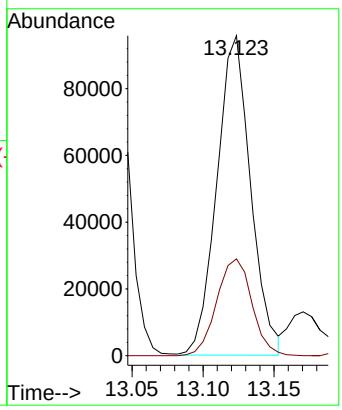


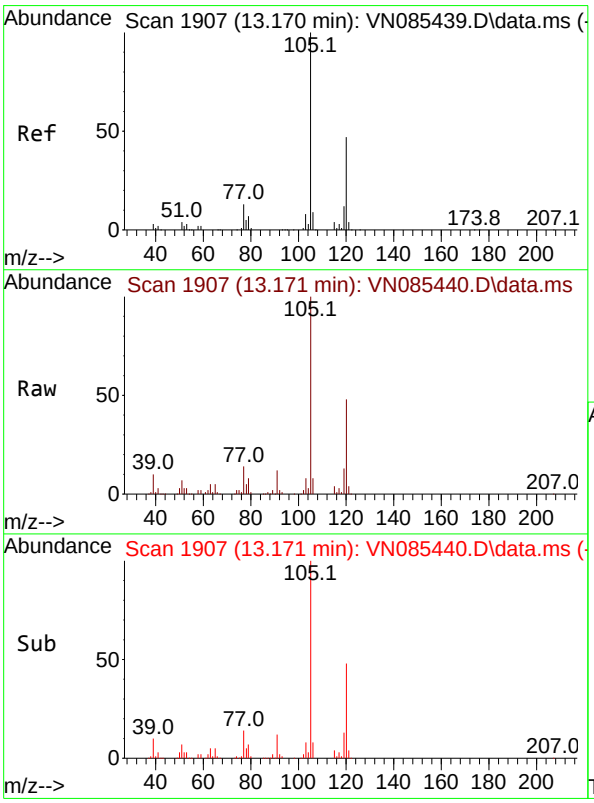
#79
2-Chlorotoluene
Concen: 21.358 ug/l
RT: 13.123 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 91 Resp: 158511

Ion	Ratio	Lower	Upper
91	100		
126	31.5	15.7	47.1

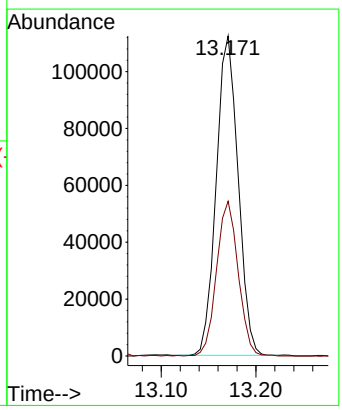


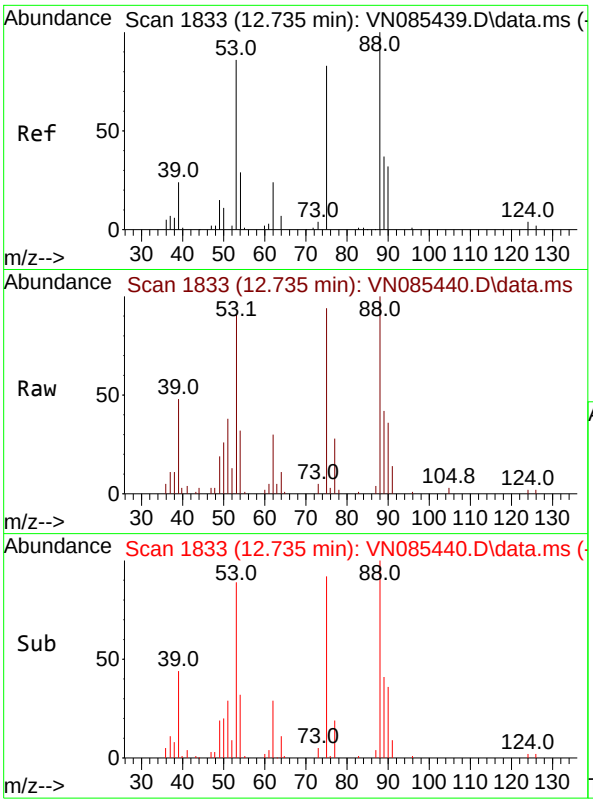


#80
1,3,5-Trimethylbenzene
Concen: 22.533 ug/l
RT: 13.171 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:105 Resp: 180294

Ion	Ratio	Lower	Upper
105	100		
120	47.9	23.9	71.7



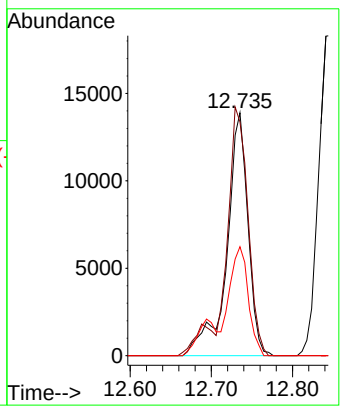


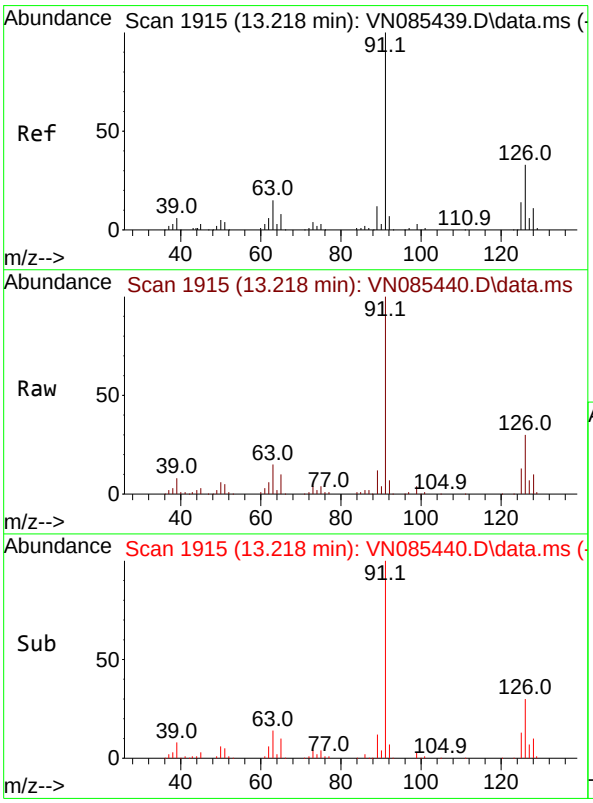
#81
trans-1,4-Dichloro-2-butene
Concen: 23.322 ug/l
RT: 12.735 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 75 Resp: 25146

Ion	Ratio	Lower	Upper
75	100		
53	94.6	95.6	143.4#
89	41.3	37.0	55.6

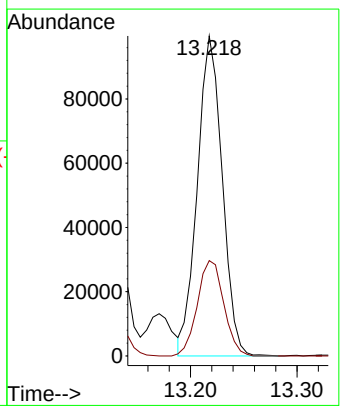


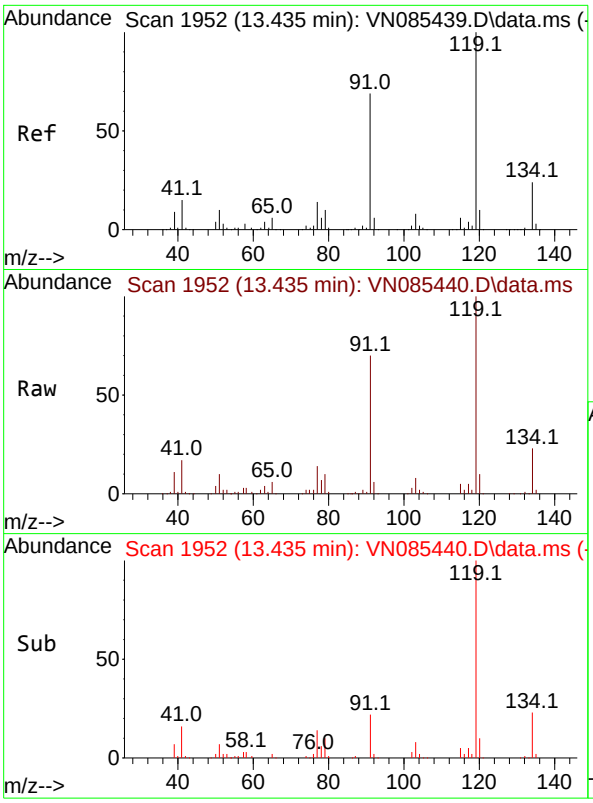


#82
4-Chlorotoluene
Concen: 21.906 ug/l
RT: 13.218 min Scan# 1915
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 91 Resp: 161880

Ion	Ratio	Lower	Upper
91	100		
126	31.6	15.9	47.7



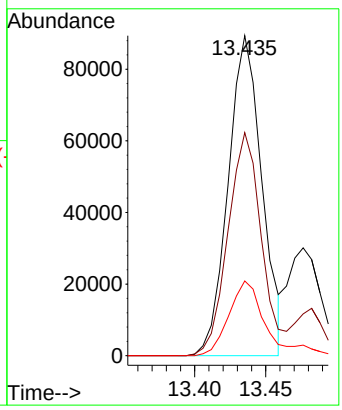


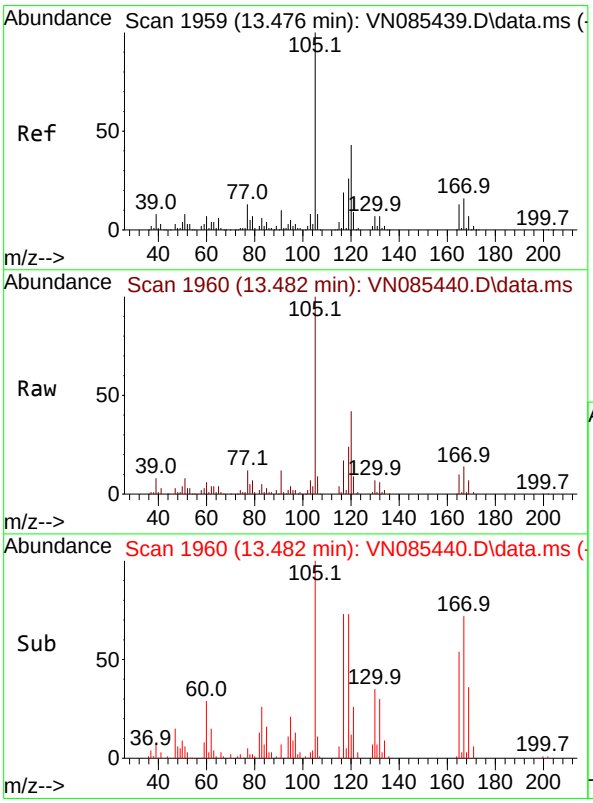
#83
tert-Butylbenzene
Concen: 21.958 ug/l
RT: 13.435 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion:119 Resp: 147541

Ion	Ratio	Lower	Upper
119	100		
91	69.5	35.1	105.3
134	25.5	12.0	36.1

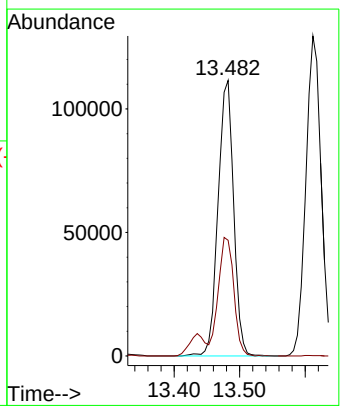


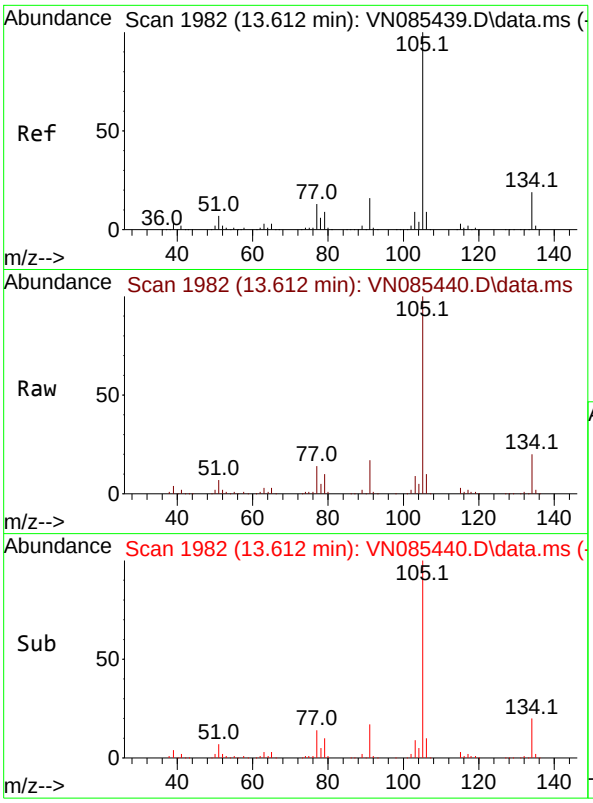


#84
1,2,4-Trimethylbenzene
Concen: 22.965 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:105 Resp: 183144

Ion	Ratio	Lower	Upper
105	100		
120	42.8	21.6	65.0



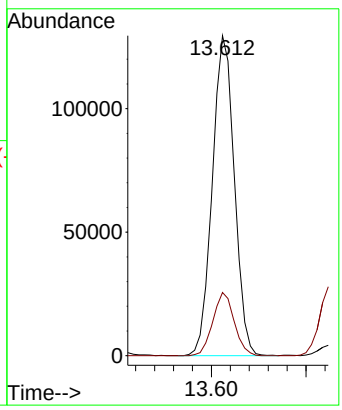


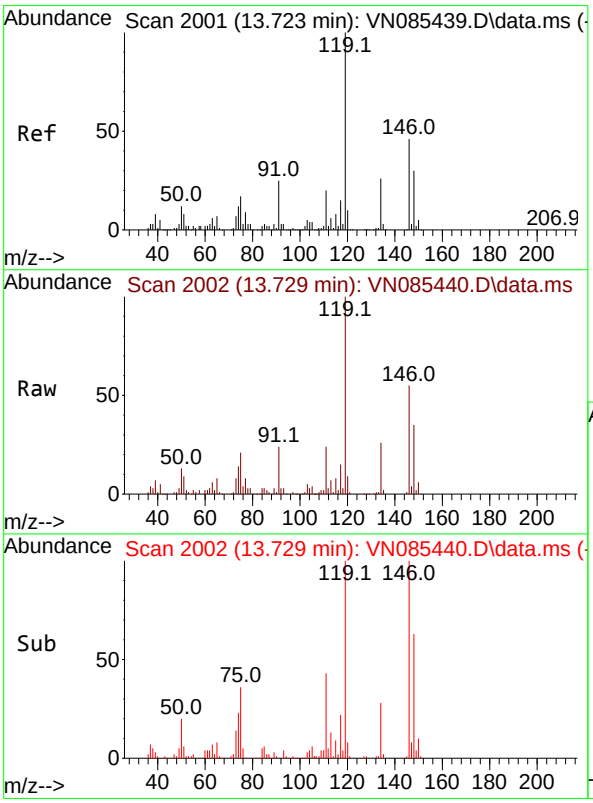
#85
sec-Butylbenzene
Concen: 22.457 ug/l
RT: 13.612 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion:105 Resp: 209133

Ion	Ratio	Lower	Upper
105	100		
134	19.2	9.7	28.9

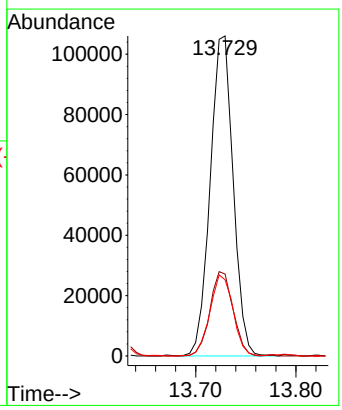


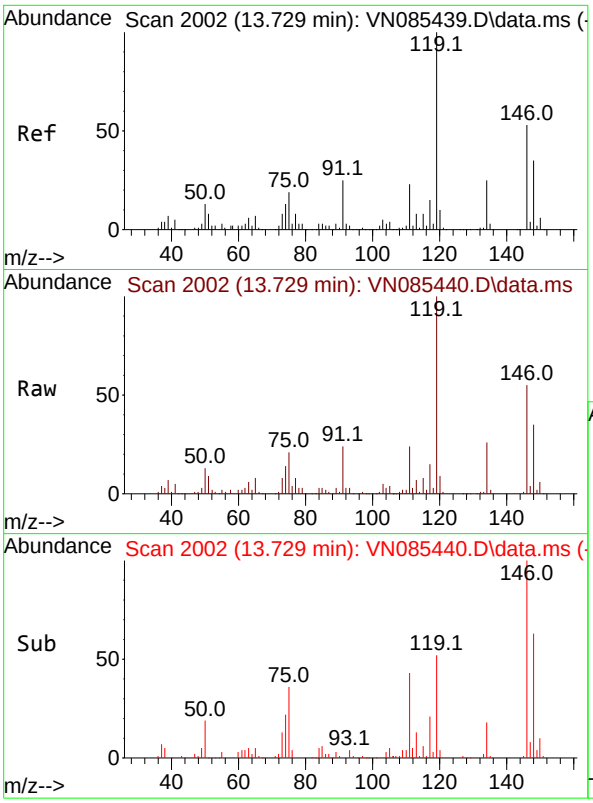


#86
p-Isopropyltoluene
Concen: 21.661 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:119 Resp: 168888

Ion	Ratio	Lower	Upper
119	100		
134	26.4	12.7	38.0
91	25.5	12.7	38.1



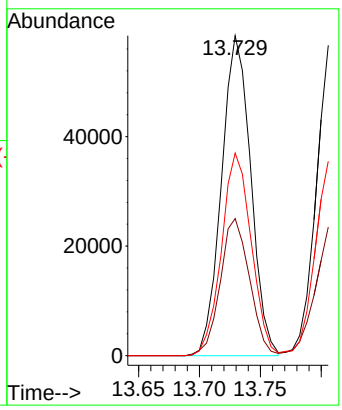


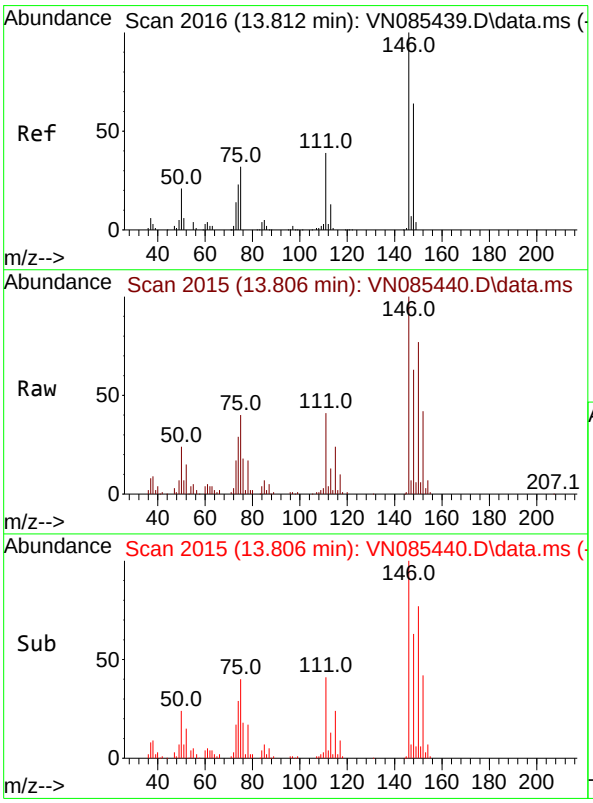
#87
1,3-Dichlorobenzene
Concen: 20.952 ug/l
RT: 13.729 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion:146 Resp: 97652

Ion	Ratio	Lower	Upper
146	100		
111	42.9	21.4	64.3
148	64.3	32.3	96.9

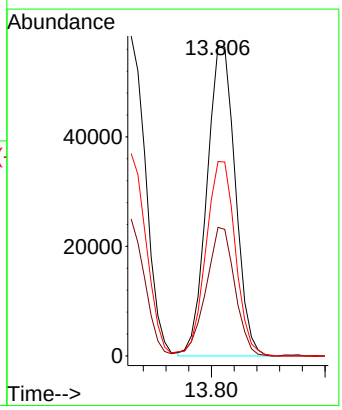


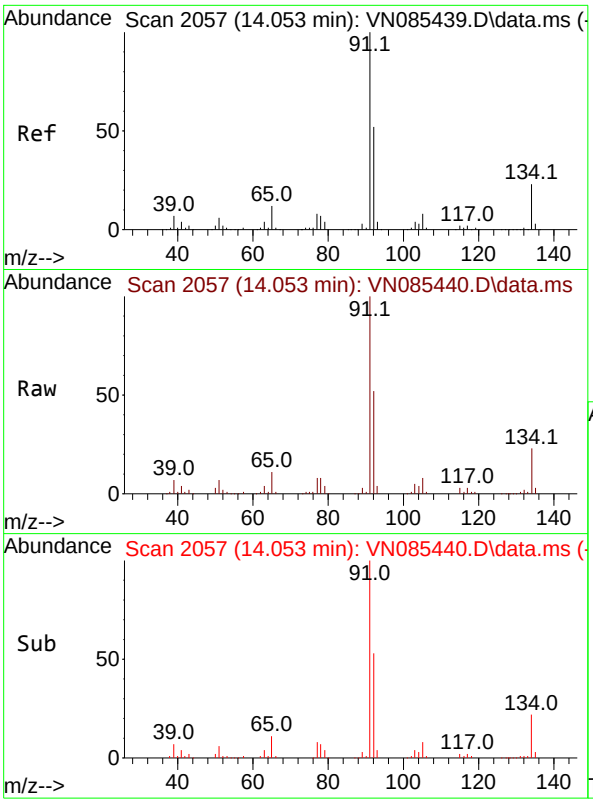


#88
1,4-Dichlorobenzene
Concen: 20.351 ug/l
RT: 13.806 min Scan# 2015
Delta R.T. -0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:146 Resp: 98321

Ion	Ratio	Lower	Upper
146	100		
111	42.2	21.3	63.7
148	65.1	32.4	97.0



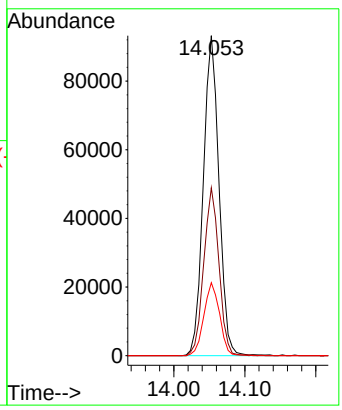


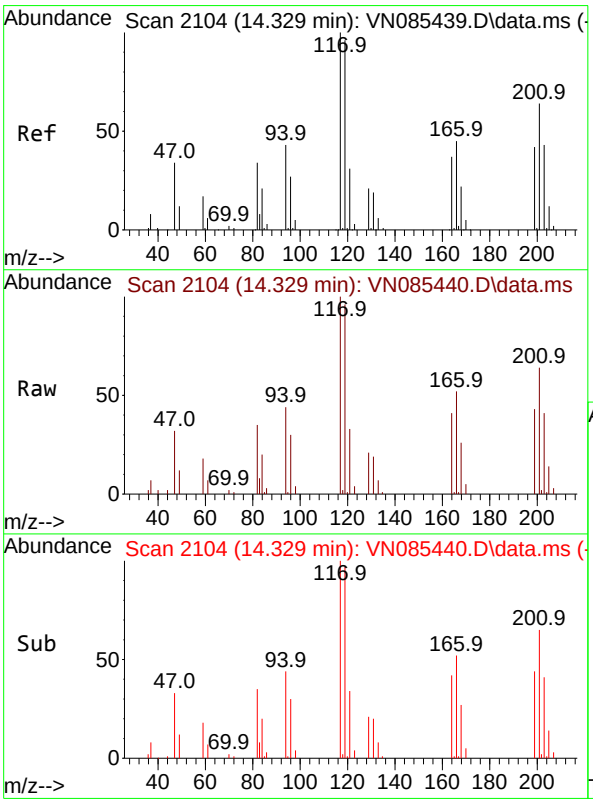
#89
n-Butylbenzene
Concen: 21.355 ug/l
RT: 14.053 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 91 Resp: 142673

Ion	Ratio	Lower	Upper
91	100		
92	51.0	25.8	77.3
134	23.0	11.7	35.1

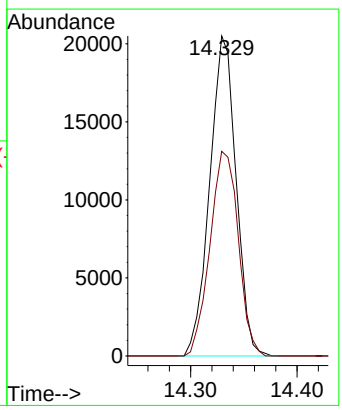


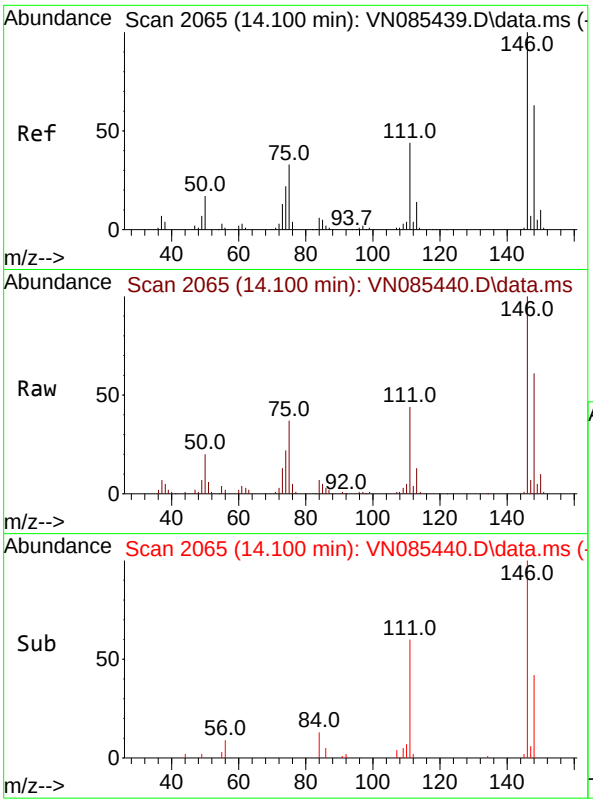


#90
Hexachloroethane
Concen: 19.858 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:117 Resp: 35205

Ion	Ratio	Lower	Upper
117	100		
201	68.8	33.7	101.0



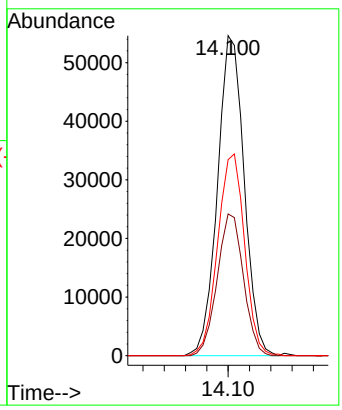


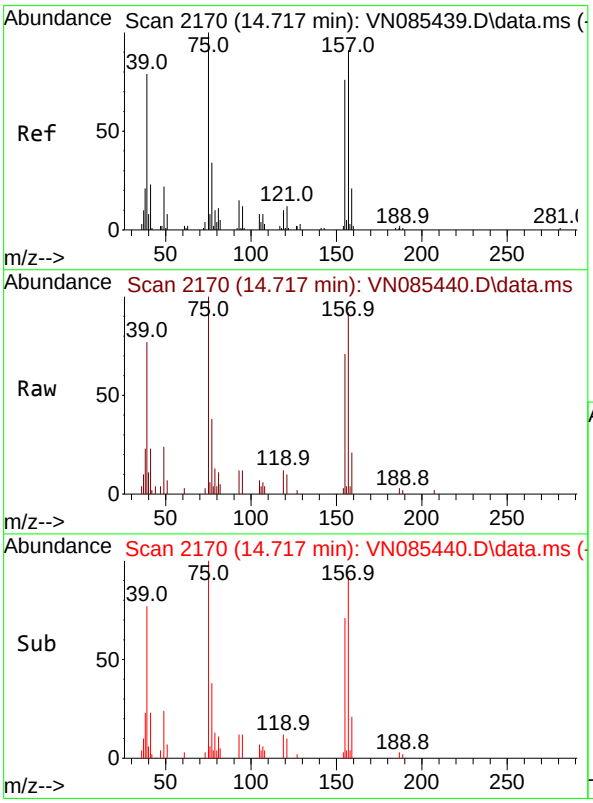
#91
1,2-Dichlorobenzene
Concen: 20.425 ug/l
RT: 14.100 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion:146 Resp: 94954

Ion	Ratio	Lower	Upper
146	100		
111	43.5	21.7	65.1
148	63.5	31.4	94.2

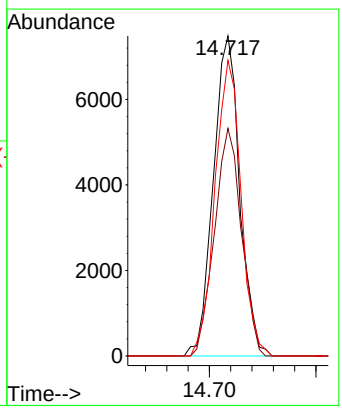


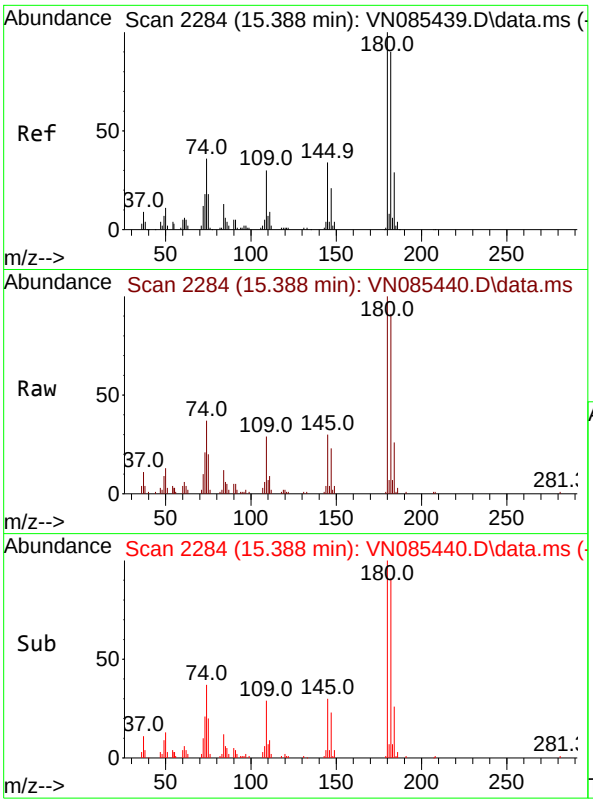


#92
1,2-Dibromo-3-Chloropropane
Concen: 20.580 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 75 Resp: 12859

Ion	Ratio	Lower	Upper
75	100		
155	72.7	36.4	109.2
157	90.9	45.4	136.1



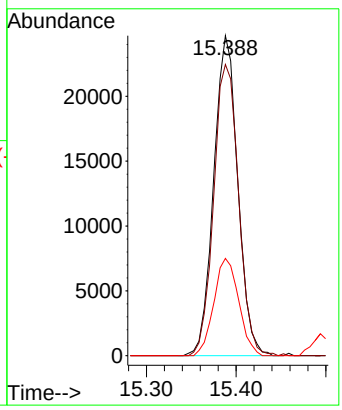


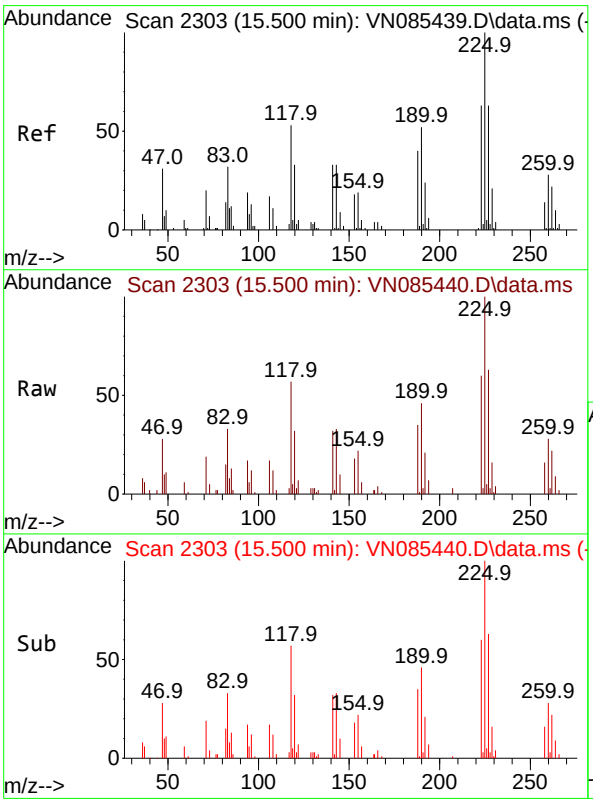
#93
1,2,4-Trichlorobenzene
Concen: 21.233 ug/l
RT: 15.388 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion:180 Resp: 45878

Ion	Ratio	Lower	Upper
180	100		
182	94.2	46.8	140.3
145	31.4	16.0	48.0

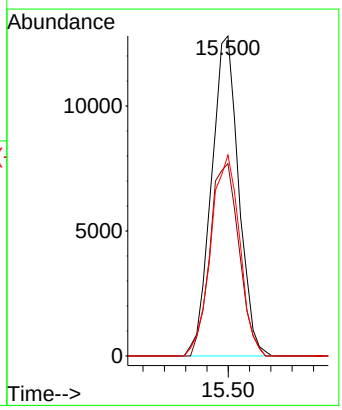


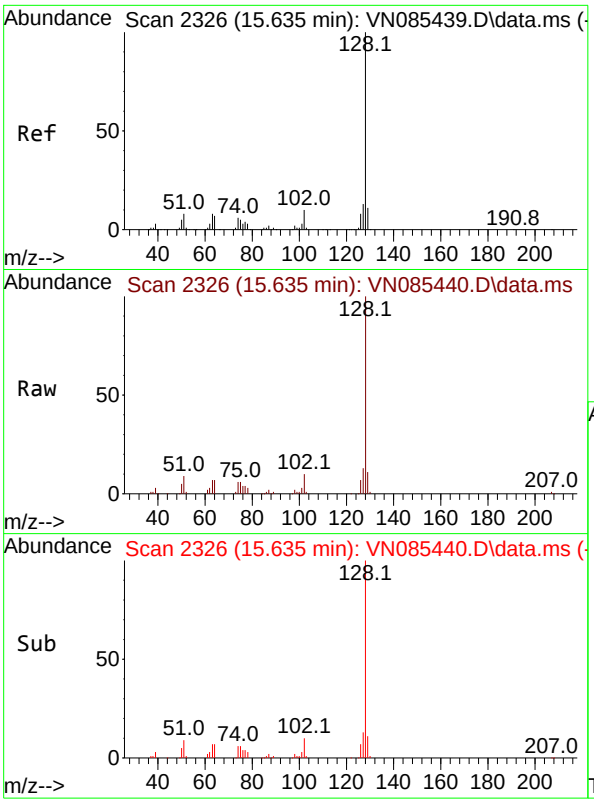


#94
Hexachlorobutadiene
Concen: 19.805 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:225 Resp: 22719

Ion	Ratio	Lower	Upper
225	100		
223	64.3	30.7	92.1
227	66.3	30.9	92.5



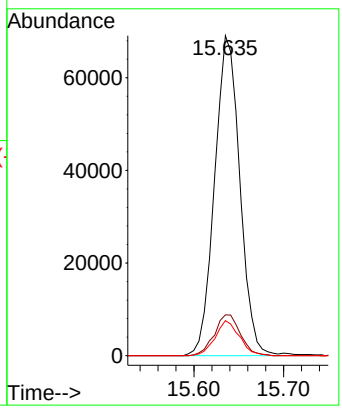


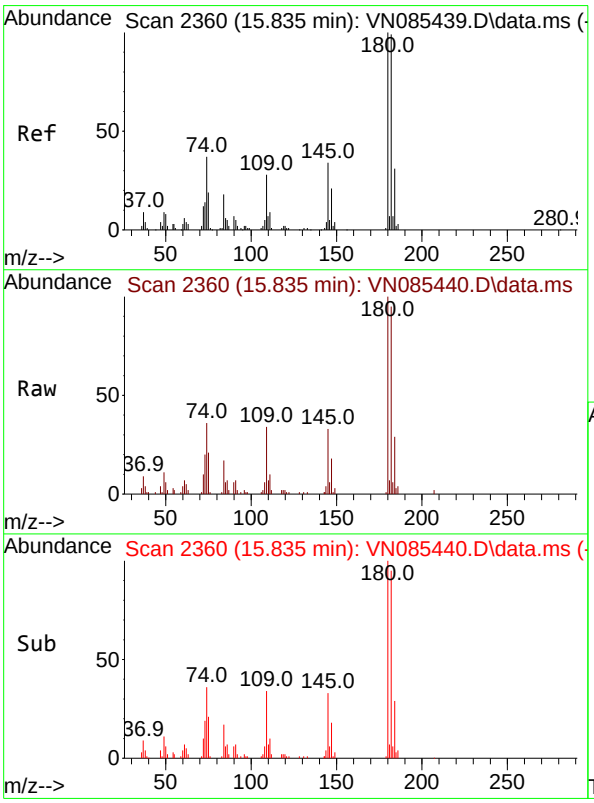
#95
Naphthalene
Concen: 20.906 ug/l
RT: 15.635 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion:128 Resp: 134793

Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.6	16.0
129	10.6	8.8	13.2

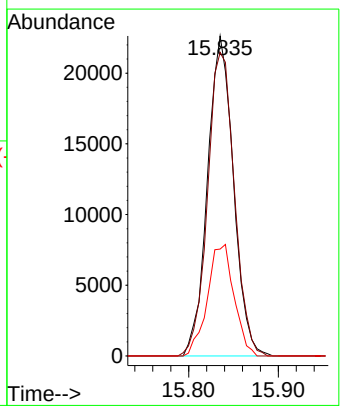




#96
1,2,3-Trichlorobenzene
Concen: 20.797 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:180 Resp: 45468

Ion	Ratio	Lower	Upper
180	100		
182	97.9	47.4	142.2
145	35.7	16.9	50.7



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085441.D
Acq On : 14 Jan 2025 16:07
Operator : JC\MD
Sample : VSTDICC010
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Quant Time: Jan 15 01:44:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	195889	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	340403	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	294508	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	132934	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	29856	9.442	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	18.880%#		
35) Dibromofluoromethane	8.165	113	21110	8.939	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	17.880%#		
50) Toluene-d8	10.565	98	73223	8.727	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	17.460%#		
62) 4-Bromofluorobenzene	12.847	95	24327	8.476	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	16.960%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	26124	9.850	ug/l	96
3) Chloromethane	2.359	50	27143	9.452	ug/l	99
4) Vinyl Chloride	2.512	62	27862	9.653	ug/l	100
5) Bromomethane	2.965	94	17139	9.830	ug/l	87
6) Chloroethane	3.130	64	16791	9.175	ug/l	96
7) Trichlorofluoromethane	3.501	101	40755	9.731	ug/l	98
8) Diethyl Ether	3.953	74	12415	8.581	ug/l	94
9) 1,1,2-Trichlorotrifluo...	4.371	101	22982	9.742	ug/l	98
10) Methyl Iodide	4.589	142	25085	9.286	ug/l	99
11) Tert butyl alcohol	5.512	59	17962	49.608	ug/l	97
12) 1,1-Dichloroethene	4.342	96	20615	9.806	ug/l	99
13) Acrolein	4.177	56	25568	51.729	ug/l	99
14) Allyl chloride	5.018	41	32240	9.451	ug/l	97
15) Acrylonitrile	5.712	53	53959	46.918	ug/l	98
16) Acetone	4.424	43	48475	47.446	ug/l	98
17) Carbon Disulfide	4.712	76	60201	9.300	ug/l #	94
18) Methyl Acetate	5.030	43	30500	9.817	ug/l	98
19) Methyl tert-butyl Ether	5.789	73	65207	9.552	ug/l	91
20) Methylene Chloride	5.277	84	23723	9.379	ug/l	96
21) trans-1,2-Dichloroethene	5.783	96	21127	9.403	ug/l	97
22) Diisopropyl ether	6.671	45	71857	9.490	ug/l	97
23) Vinyl Acetate	6.600	43	250575	47.125	ug/l	98
24) 1,1-Dichloroethane	6.565	63	43099	9.335	ug/l	95
25) 2-Butanone	7.477	43	71191	47.350	ug/l	99
26) 2,2-Dichloropropane	7.483	77	36105	9.672	ug/l	99
27) cis-1,2-Dichloroethene	7.489	96	25049	9.466	ug/l	97
28) Bromochloromethane	7.806	49	19037	8.863	ug/l	97
29) Tetrahydrofuran	7.836	42	45641	47.881	ug/l	98
30) Chloroform	7.965	83	45792	9.596	ug/l	100
31) Cyclohexane	8.253	56	40211	10.020	ug/l #	93
32) 1,1,1-Trichloroethane	8.165	97	39170	9.358	ug/l	99
36) 1,1-Dichloropropene	8.371	75	30015	9.056	ug/l	97
37) Ethyl Acetate	7.559	43	30760	9.195	ug/l	97
38) Carbon Tetrachloride	8.359	117	36015	9.492	ug/l	94
39) Methylcyclohexane	9.594	83	27721	8.900	ug/l	95
40) Benzene	8.600	78	93680	9.407	ug/l	96

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085441.D
Acq On : 14 Jan 2025 16:07
Operator : JC\MD
Sample : VSTDICC010
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Quant Time: Jan 15 01:44:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.777	41	16859	9.686	ug/l		96
42) 1,2-Dichloroethane	8.665	62	35569	9.483	ug/l		99
43) Isopropyl Acetate	8.683	43	48926	9.127	ug/l		99
44) Trichloroethene	9.347	130	21113	9.108	ug/l		95
45) 1,2-Dichloropropane	9.618	63	22747	8.942	ug/l		97
46) Dibromomethane	9.706	93	17260	9.404	ug/l		99
47) Bromodichloromethane	9.883	83	35020	9.365	ug/l		98
48) Methyl methacrylate	9.677	41	21873	9.067	ug/l		97
49) 1,4-Dioxane	9.694	88	7734	190.382	ug/l		98
51) 4-Methyl-2-Pentanone	10.441	43	146990	47.254	ug/l		98
52) Toluene	10.630	92	54976	9.527	ug/l		100
53) t-1,3-Dichloropropene	10.835	75	32780	9.276	ug/l		96
54) cis-1,3-Dichloropropene	10.312	75	35904	9.512	ug/l		98
55) 1,1,2-Trichloroethane	11.012	97	21060	9.222	ug/l		98
56) Ethyl methacrylate	10.871	69	28454	9.042	ug/l		95
57) 1,3-Dichloropropane	11.159	76	37768	9.512	ug/l		98
58) 2-Chloroethyl Vinyl ether	10.159	63	63110	43.550	ug/l		98
59) 2-Hexanone	11.194	43	101318	46.291	ug/l		98
60) Dibromochloromethane	11.353	129	25029	9.079	ug/l		98
61) 1,2-Dibromoethane	11.465	107	21055	9.263	ug/l		100
64) Tetrachloroethene	11.100	164	19934	9.928	ug/l		97
65) Chlorobenzene	11.888	112	61680	9.560	ug/l		93
66) 1,1,1,2-Tetrachloroethane	11.959	131	21853	9.229	ug/l		98
67) Ethyl Benzene	11.959	91	99248	9.445	ug/l		97
68) m/p-Xylenes	12.065	106	72431	18.650	ug/l		99
69) o-Xylene	12.394	106	34382	9.264	ug/l		99
70) Styrene	12.406	104	56285	9.163	ug/l		98
71) Bromoform	12.576	173	16071	9.485	ug/l	#	98
73) Isopropylbenzene	12.694	105	87003	9.697	ug/l		99
74) N-amyl acetate	12.494	43	37343	9.260	ug/l		97
75) 1,1,2,2-Tetrachloroethane	12.935	83	30770	9.709	ug/l		99
76) 1,2,3-Trichloropropane	12.994	75	39589	14.675	ug/l		43
77) Bromobenzene	12.976	156	22784	9.720	ug/l		97
78) n-propylbenzene	13.035	91	102262	9.628	ug/l		98
79) 2-Chlorotoluene	13.123	91	68346	9.943	ug/l		100
80) 1,3,5-Trimethylbenzene	13.171	105	71656	9.669	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.735	75	9236	9.248	ug/l		100
82) 4-Chlorotoluene	13.218	91	66773	9.756	ug/l		97
83) tert-Butylbenzene	13.435	119	59455	9.553	ug/l		98
84) 1,2,4-Trimethylbenzene	13.476	105	72046	9.754	ug/l		99
85) sec-Butylbenzene	13.612	105	83662	9.699	ug/l		99
86) p-Isopropyltoluene	13.729	119	67556	9.674	ug/l		99
87) 1,3-Dichlorobenzene	13.729	146	41843	9.693	ug/l		99
88) 1,4-Dichlorobenzene	13.812	146	42728	9.549	ug/l		99
89) n-Butylbenzene	14.053	91	57632	9.314	ug/l		97
90) Hexachloroethane	14.329	117	15261	9.294	ug/l		97
91) 1,2-Dichlorobenzene	14.106	146	40726	9.458	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	5639	9.744	ug/l		95
93) 1,2,4-Trichlorobenzene	15.388	180	18720	9.354	ug/l		99
94) Hexachlorobutadiene	15.500	225	10491	9.874	ug/l		98
95) Naphthalene	15.635	128	52054	8.717	ug/l		99
96) 1,2,3-Trichlorobenzene	15.835	180	19450	9.605	ug/l		96

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085441.D
Acq On : 14 Jan 2025 16:07
Operator : JC\MD
Sample : VSTDICC010
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Quant Time: Jan 15 01:44:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration

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

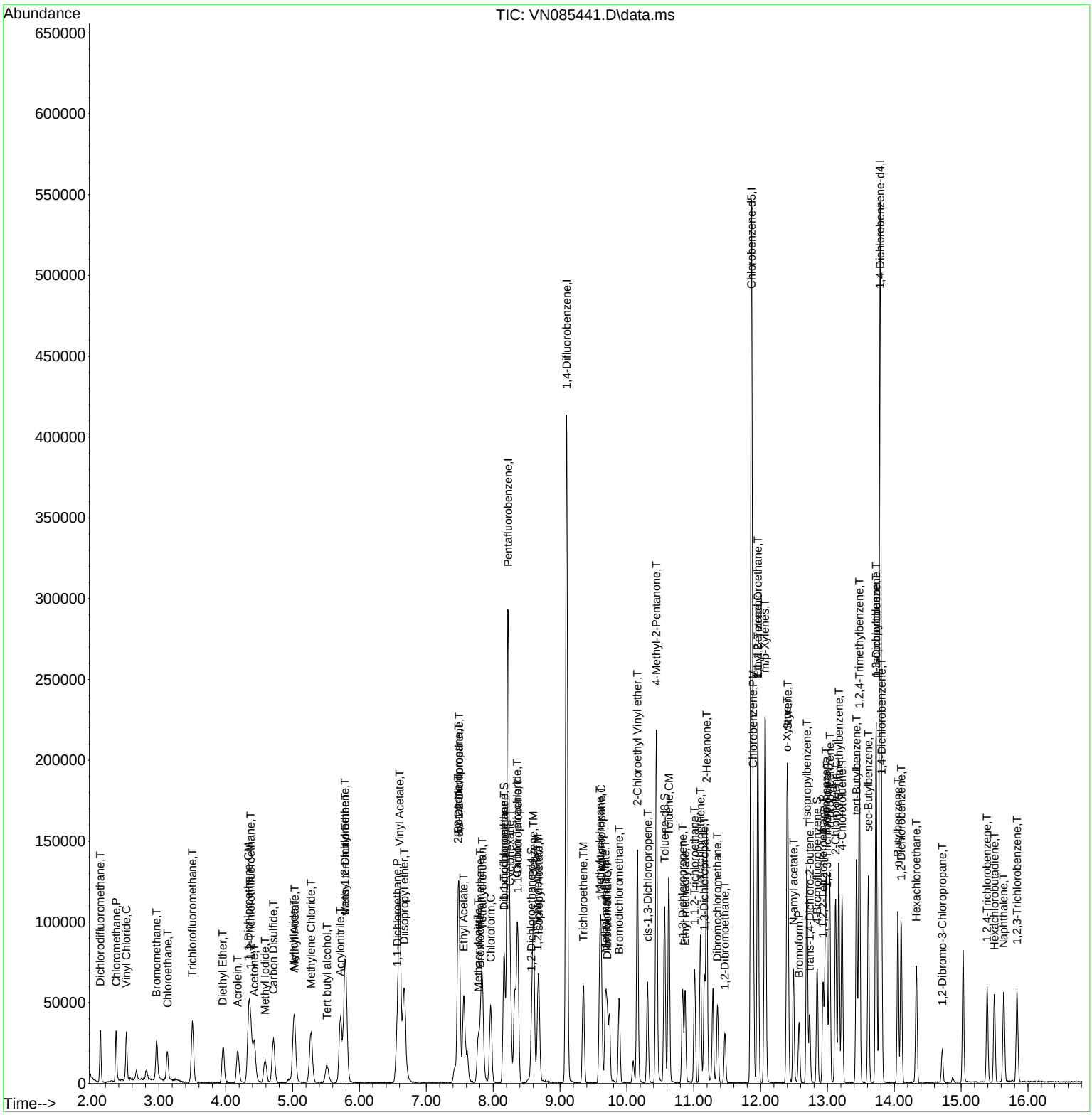
(#) = qualifier out of range (m) = manual integration (+) = signals summed

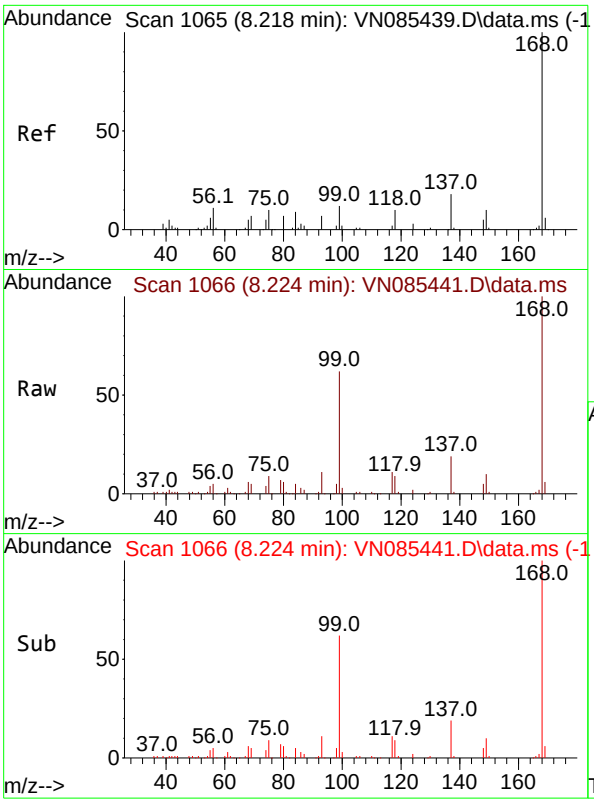
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085441.D
Acq On : 14 Jan 2025 16:07
Operator : JC\MD
Sample : VSTDICC010
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Quant Time: Jan 15 01:44:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration



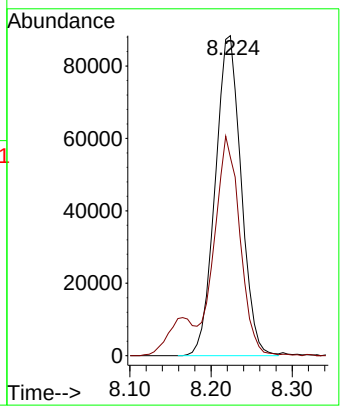


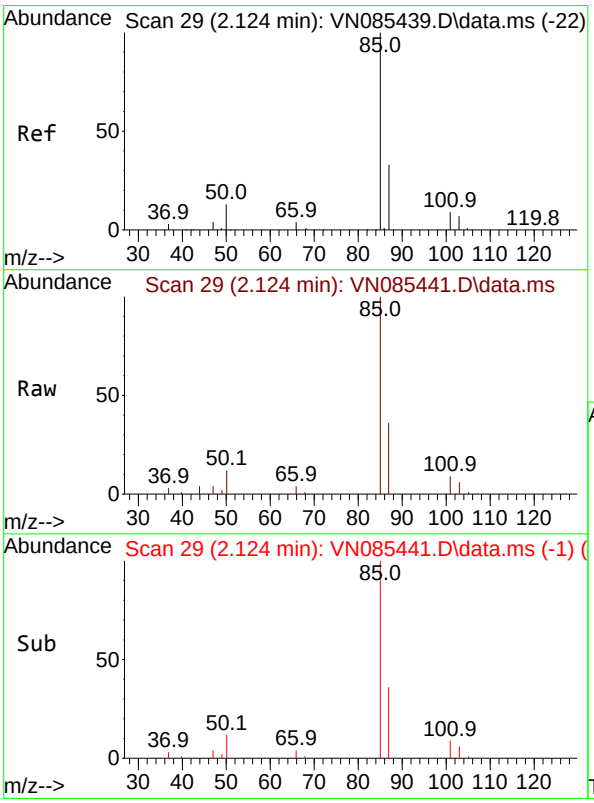
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion:168 Resp: 195889

Ion	Ratio	Lower	Upper
168	100		
99	61.7	53.6	80.4

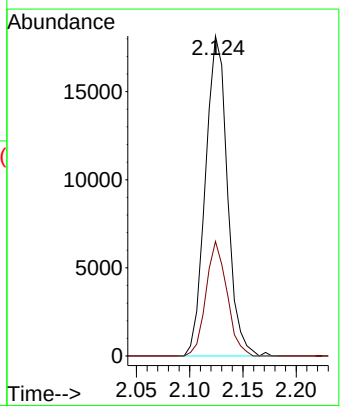


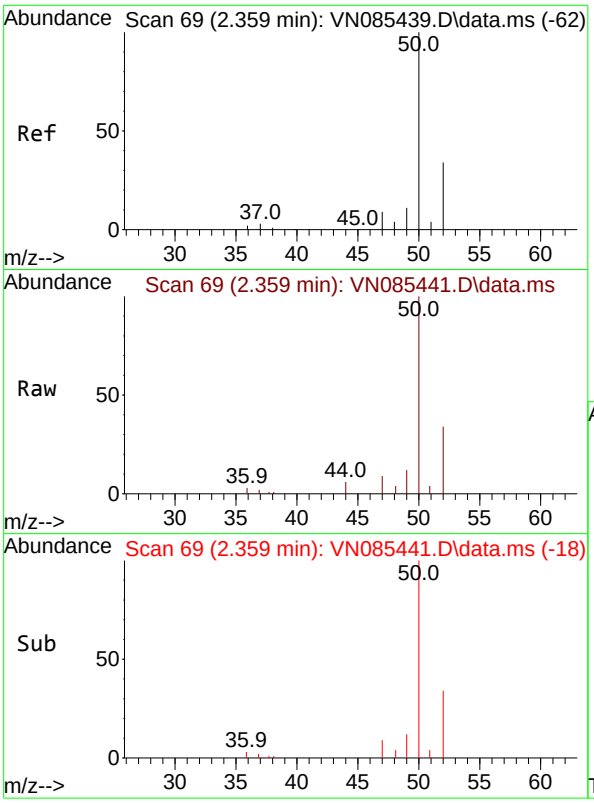


#2
Dichlorodifluoromethane
Concen: 9.850 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 85 Resp: 26124

Ion	Ratio	Lower	Upper
85	100		
87	35.8	16.7	50.1



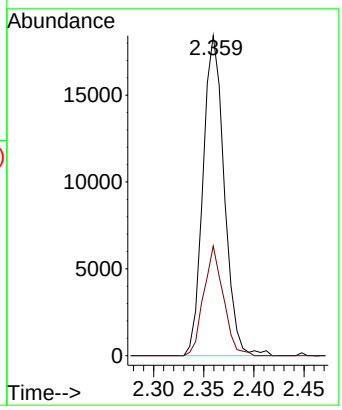


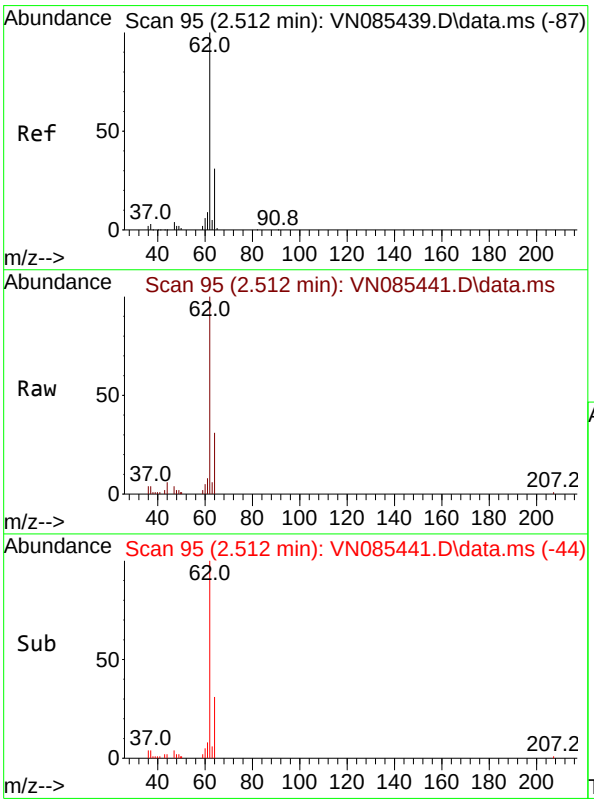
#3
Chloromethane
Concen: 9.452 ug/l
RT: 2.359 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion: 50 Resp: 27143

Ion	Ratio	Lower	Upper
50	100		
52	34.3	27.0	40.6

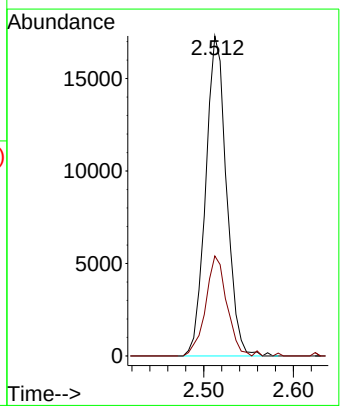


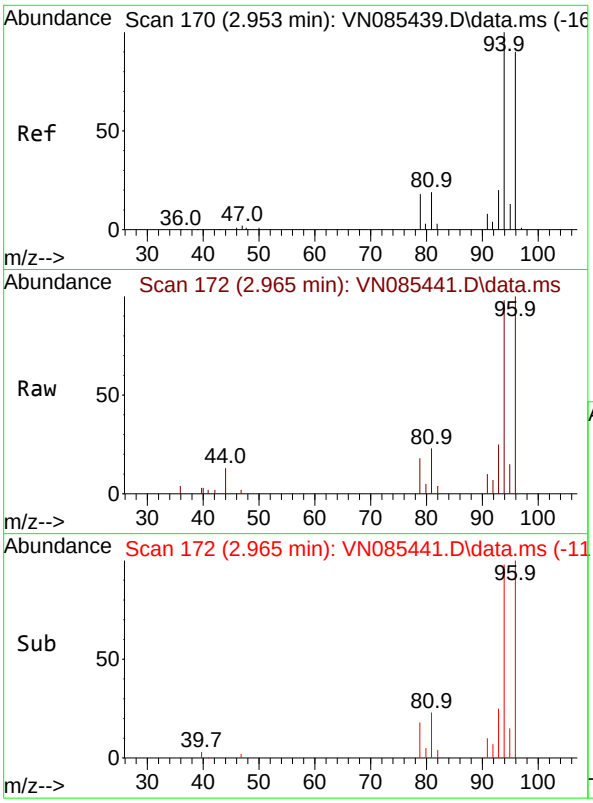


#4
Vinyl Chloride
Concen: 9.653 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 62 Resp: 27862

Ion	Ratio	Lower	Upper
62	100		
64	31.2	24.8	37.2



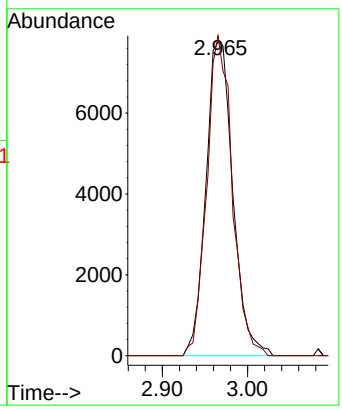


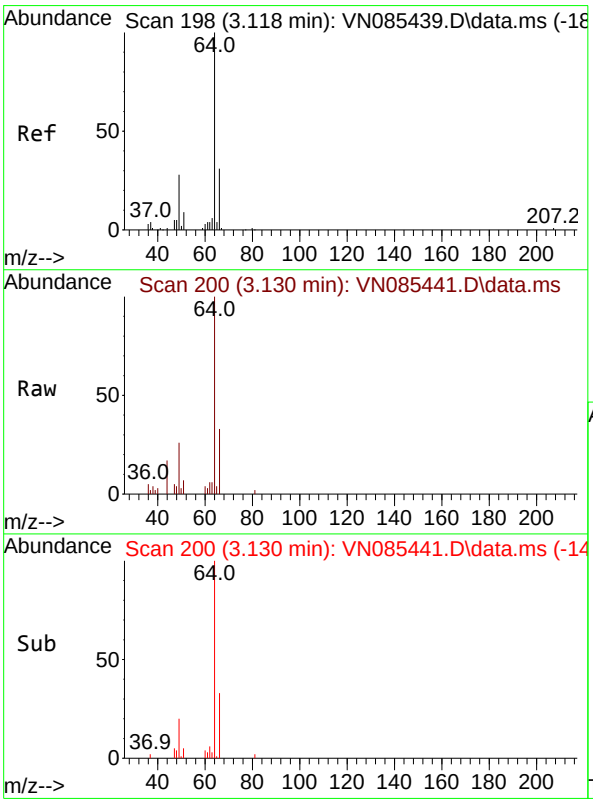
#5
Bromomethane
Concen: 9.830 ug/l
RT: 2.965 min Scan# 1
Delta R.T. 0.012 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion: 94 Resp: 17139

Ion	Ratio	Lower	Upper
94	100		
96	102.1	71.8	107.6

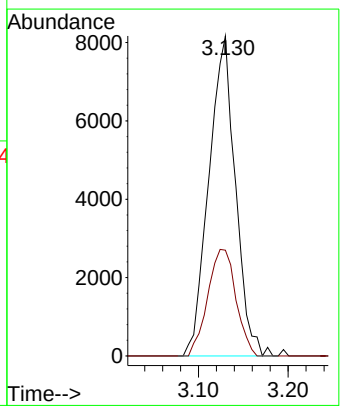


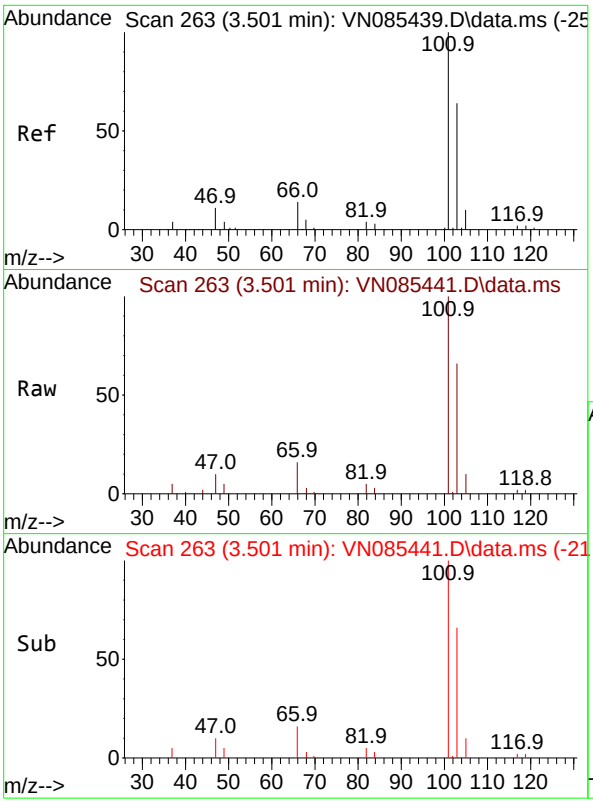


#6
Chloroethane
Concen: 9.175 ug/l
RT: 3.130 min Scan# 200
Delta R.T. 0.012 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 64 Resp: 16791

Ion	Ratio	Lower	Upper
64	100		
66	33.1	24.6	36.8



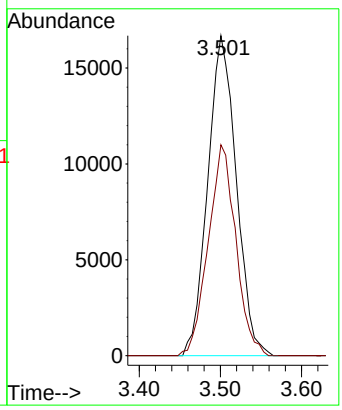


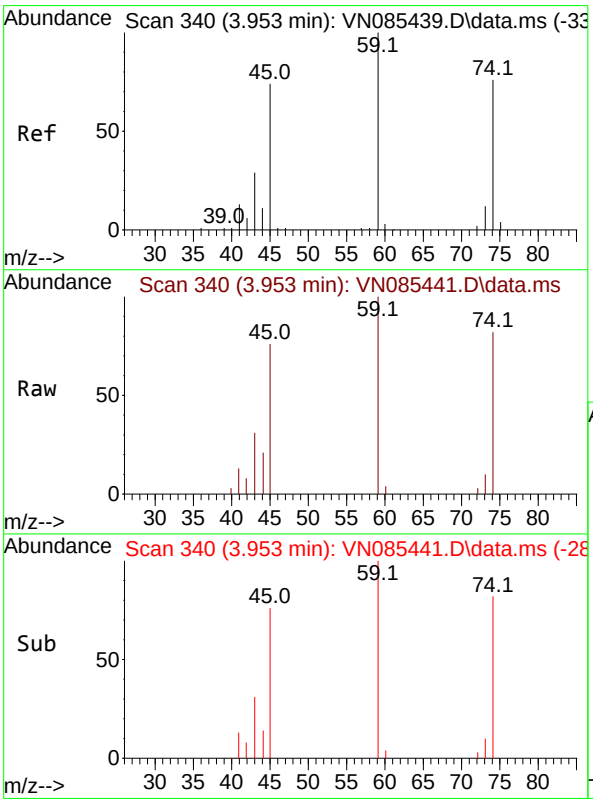
#7
Trichlorofluoromethane
Concen: 9.731 ug/l
RT: 3.501 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion:101 Resp: 40755

Ion	Ratio	Lower	Upper
101	100		
103	65.9	51.4	77.2

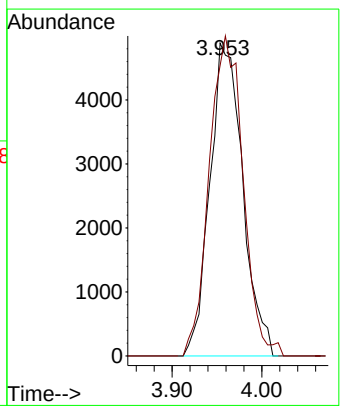


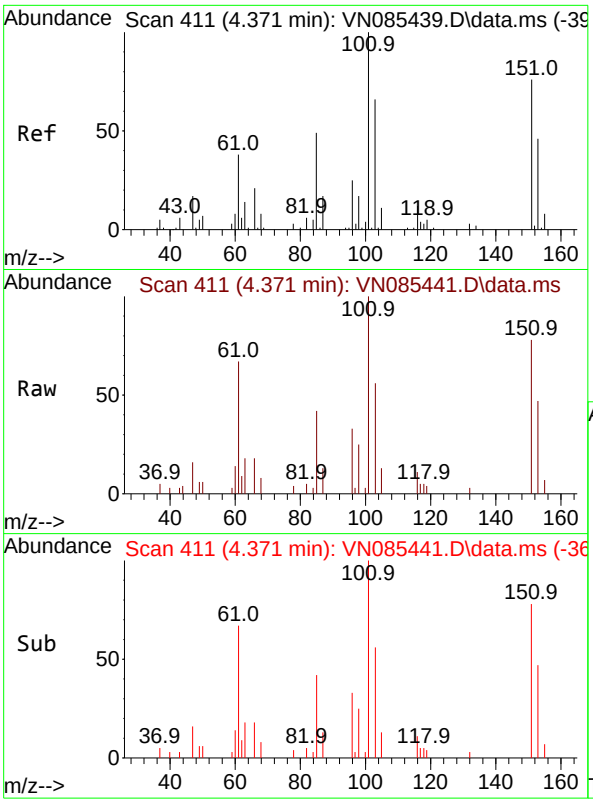


#8
Diethyl Ether
Concen: 8.581 ug/l
RT: 3.953 min Scan# 340
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 74 Resp: 12415

Ion	Ratio	Lower	Upper
74	100		
45	105.3	49.7	149.1



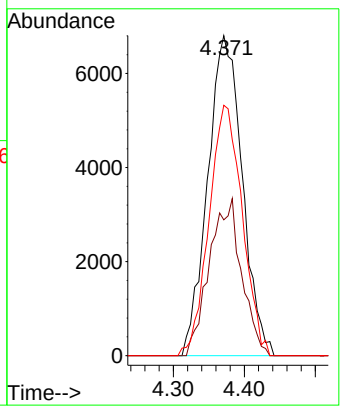


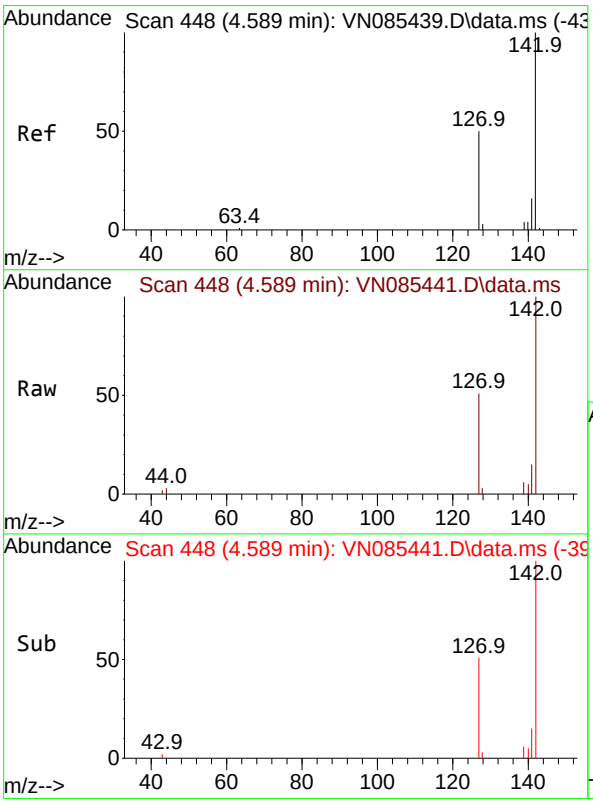
#9
1,1,2-Trichlorotrifluoroethane
Concen: 9.742 ug/l
RT: 4.371 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion:101 Resp: 22982

Ion	Ratio	Lower	Upper
101	100		
85	45.8	37.8	56.8
151	75.2	58.8	88.2

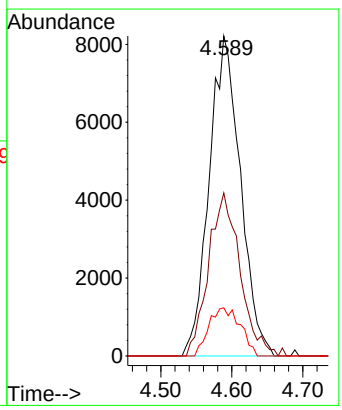


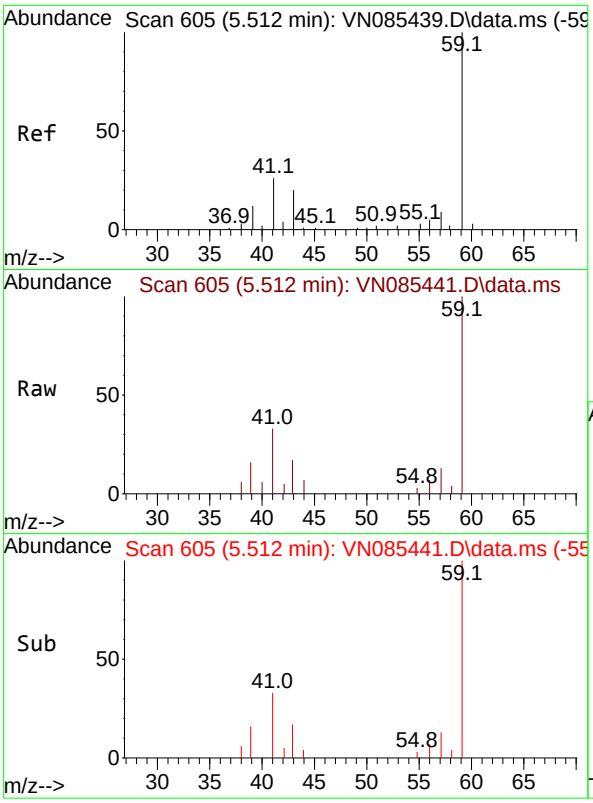


#10
Methyl Iodide
Concen: 9.286 ug/l
RT: 4.589 min Scan# 448
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:142 Resp: 25085

Ion	Ratio	Lower	Upper
142	100		
127	50.9	40.3	60.5
141	15.0	12.8	19.2



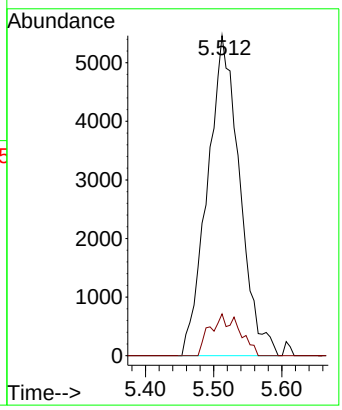


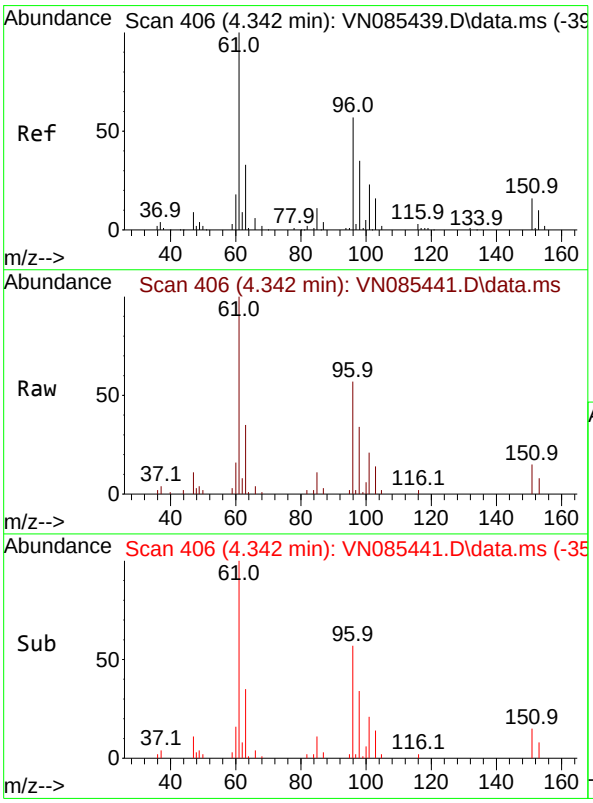
#11
Tert butyl alcohol
Concen: 49.608 ug/l
RT: 5.512 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion: 59 Resp: 17962

Ion	Ratio	Lower	Upper
59	100		
57	11.9	8.6	13.0

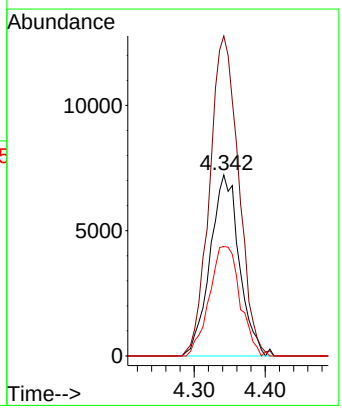


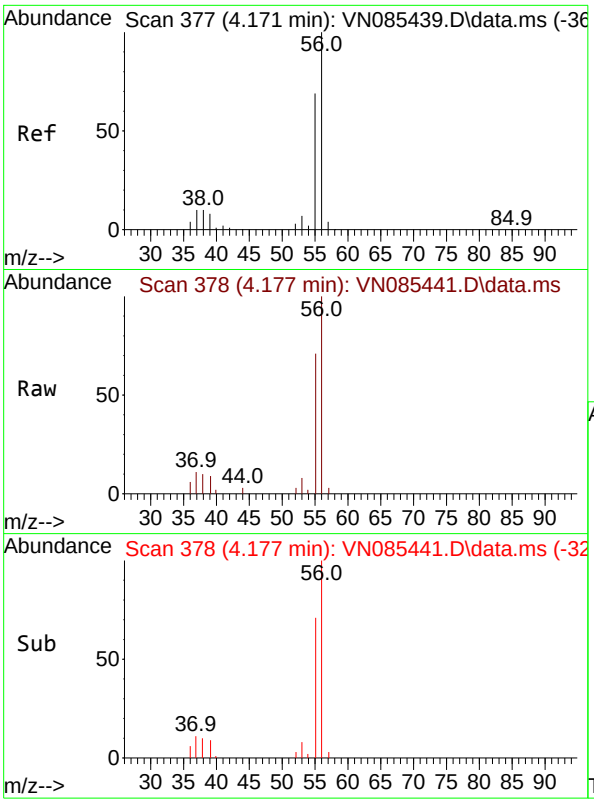


#12
1,1-Dichloroethene
Concen: 9.806 ug/l
RT: 4.342 min Scan# 406
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 96 Resp: 20615

Ion	Ratio	Lower	Upper
96	100		
61	176.8	141.0	211.4
98	60.5	49.0	73.6



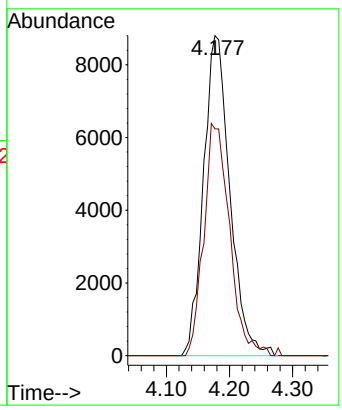


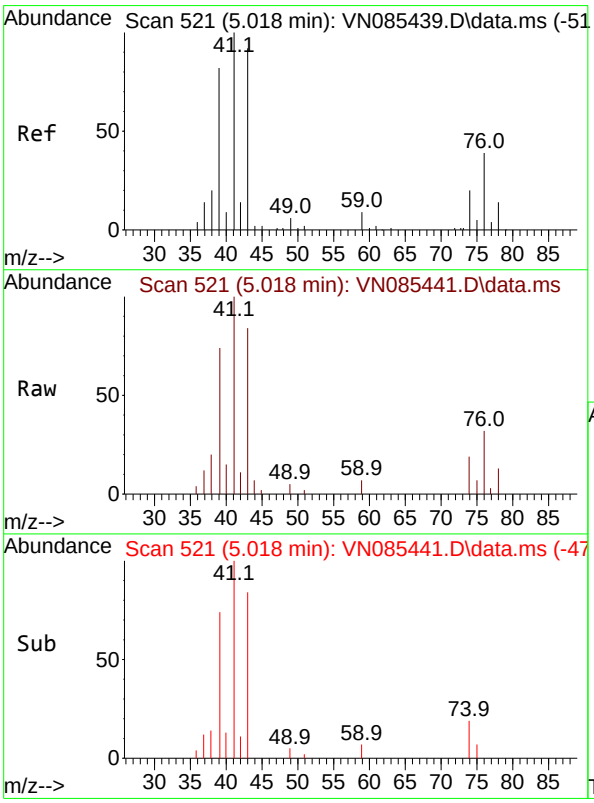
#13
Acrolein
Concen: 51.729 ug/l
RT: 4.177 min Scan# 3
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion: 56 Resp: 25568

Ion	Ratio	Lower	Upper
56	100		
55	70.9	56.3	84.5

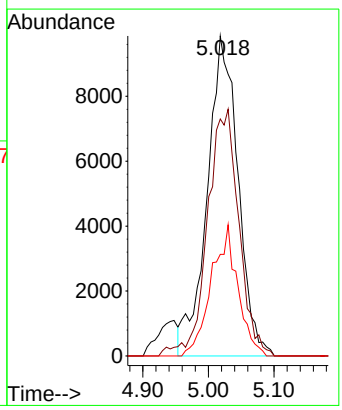


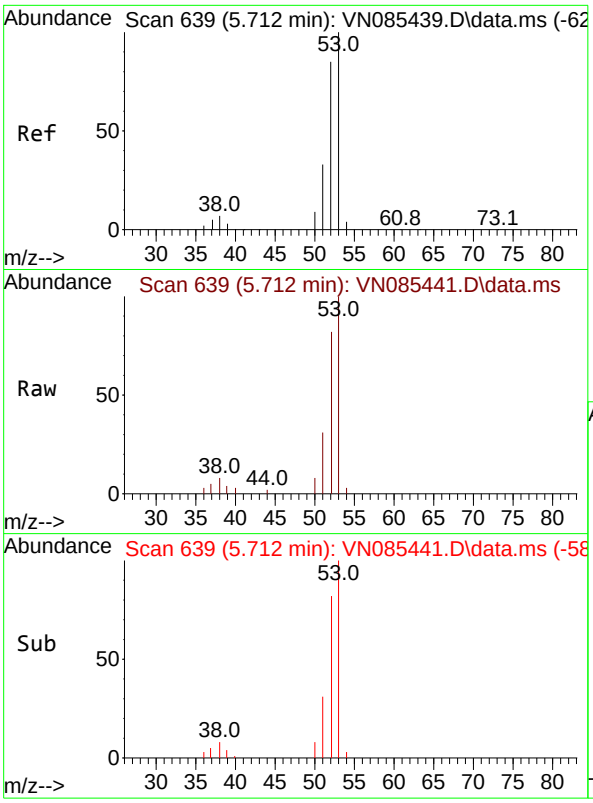


#14
Allyl chloride
Concen: 9.451 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 41 Resp: 32240

Ion	Ratio	Lower	Upper
41	100		
39	78.3	64.4	96.6
76	35.1	30.5	45.7



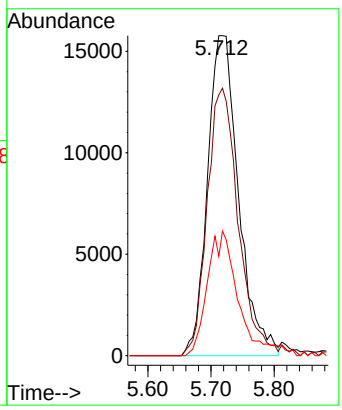


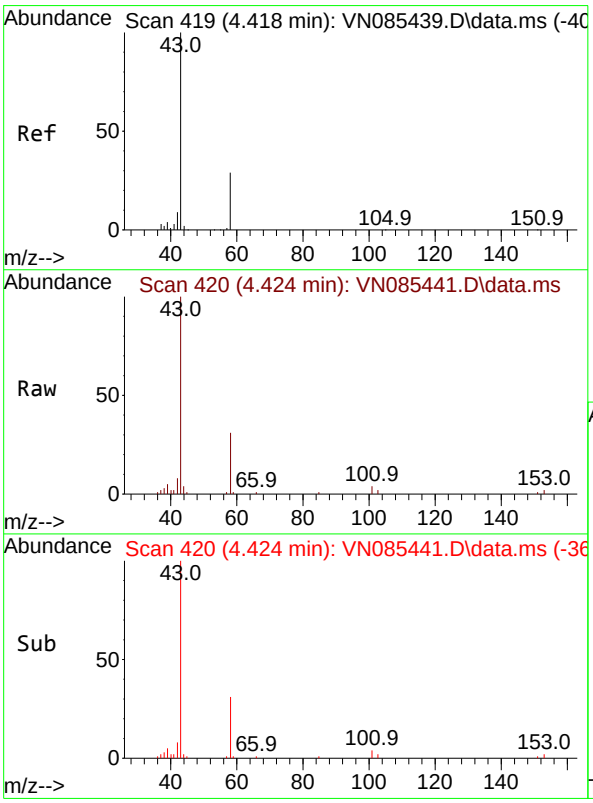
#15
Acrylonitrile
Concen: 46.918 ug/l
RT: 5.712 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion: 53 Resp: 53959

Ion	Ratio	Lower	Upper
53	100		
52	83.3	65.5	98.3
51	38.8	29.8	44.8

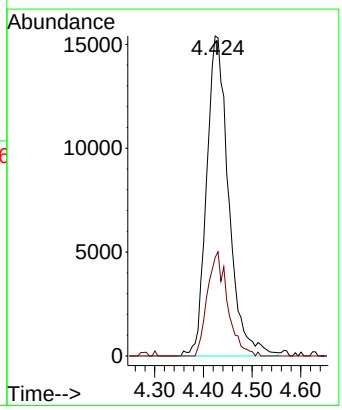


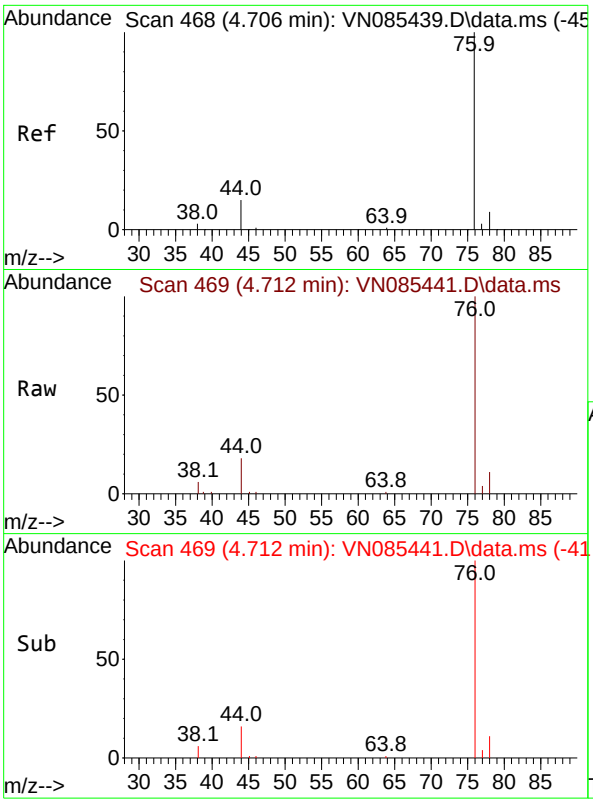


#16
Acetone
Concen: 47.446 ug/l
RT: 4.424 min Scan# 420
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 43 Resp: 48475

Ion	Ratio	Lower	Upper
43	100		
58	30.8	23.8	35.6



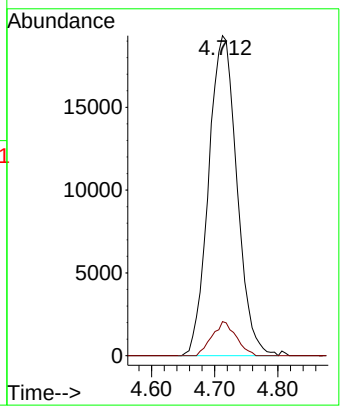


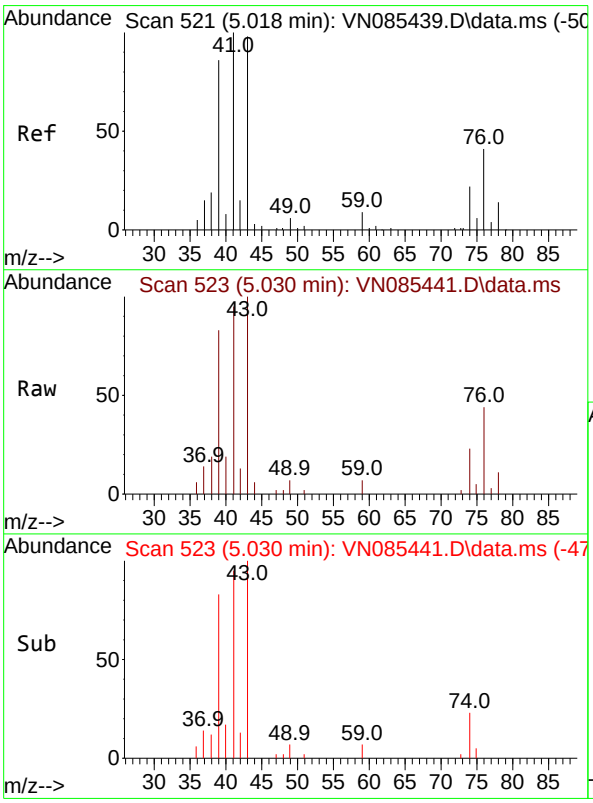
#17
Carbon Disulfide
Concen: 9.300 ug/l
RT: 4.712 min Scan# 4
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion: 76 Resp: 60201

Ion	Ratio	Lower	Upper
76	100		
78	10.7	6.9	10.3#

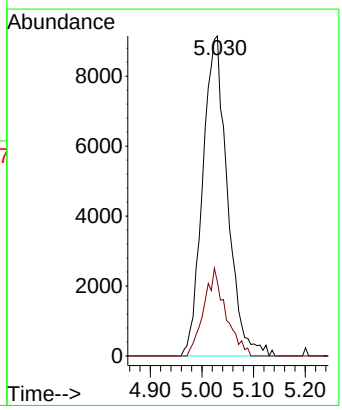


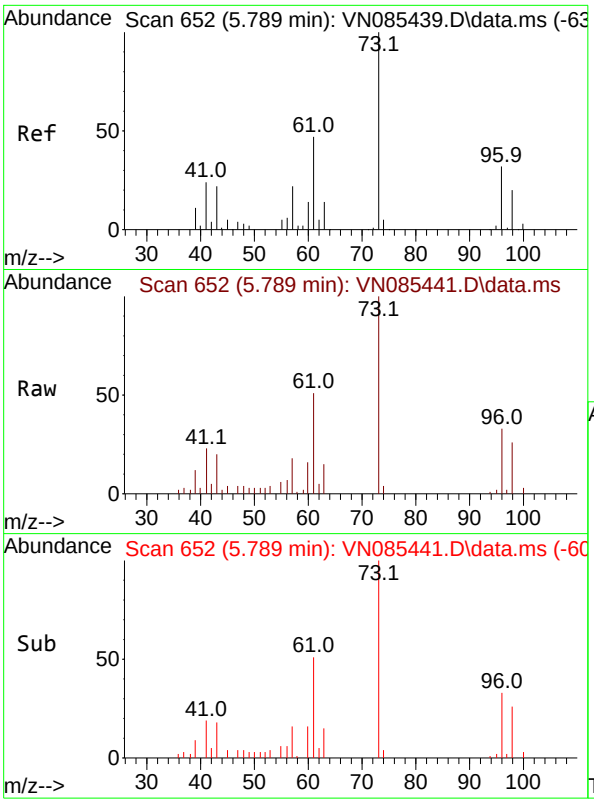


#18
Methyl Acetate
Concen: 9.817 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.012 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 43 Resp: 30500

Ion	Ratio	Lower	Upper
43	100		
74	24.3	18.6	28.0



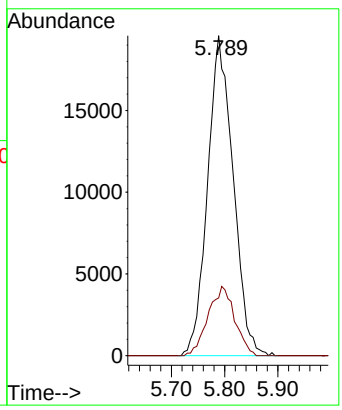


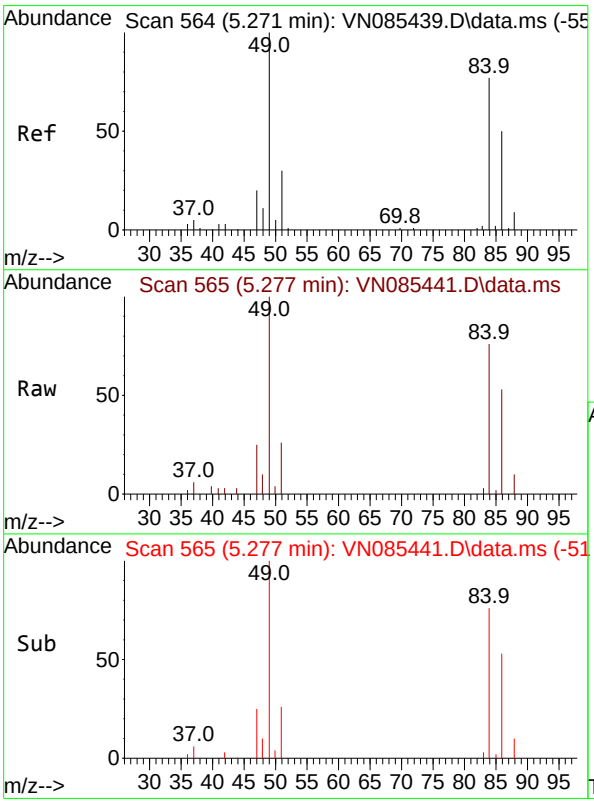
#19
Methyl tert-butyl Ether
Concen: 9.552 ug/l
RT: 5.789 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion: 73 Resp: 65207

Ion	Ratio	Lower	Upper
73	100		
57	18.1	17.8	26.8

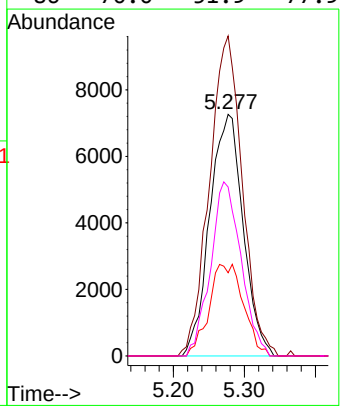


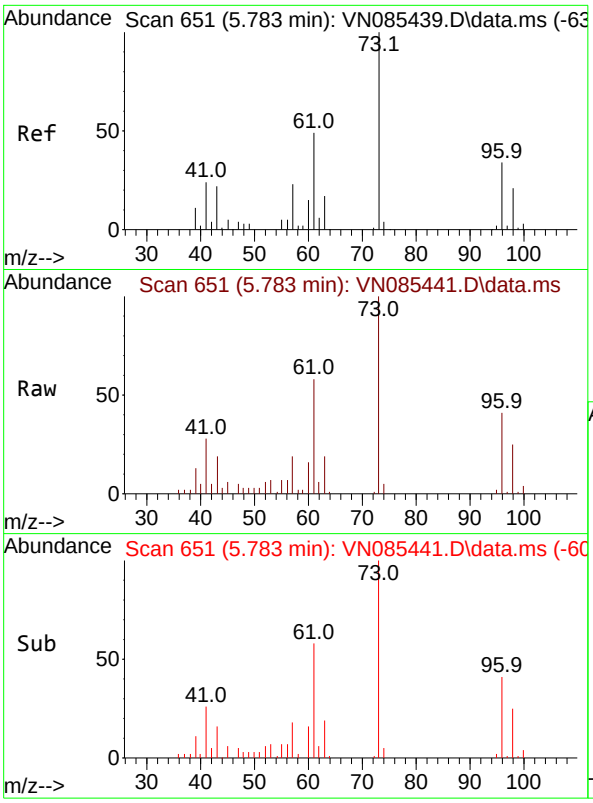


#20
Methylene Chloride
Concen: 9.379 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 84 Resp: 23723

Ion	Ratio	Lower	Upper
84	100		
49	132.4	104.1	156.1
51	34.4	31.0	46.4
86	70.0	51.9	77.9



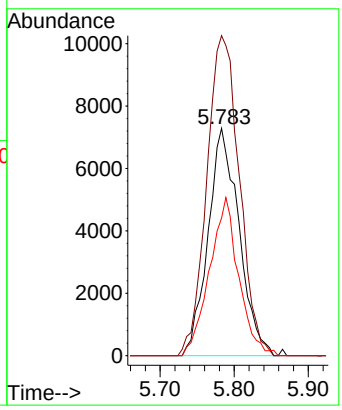


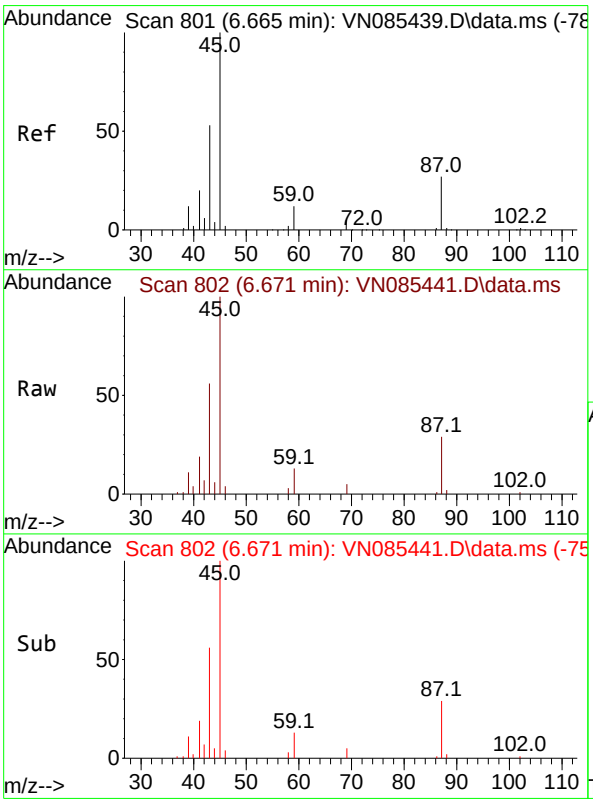
#21
trans-1,2-Dichloroethene
Concen: 9.403 ug/l
RT: 5.783 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion: 96 Resp: 21127

Ion	Ratio	Lower	Upper
96	100		
61	140.8	115.7	173.5
98	60.5	49.8	74.8

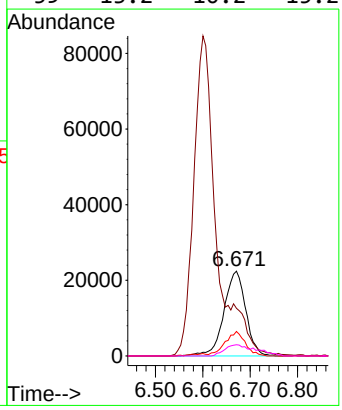


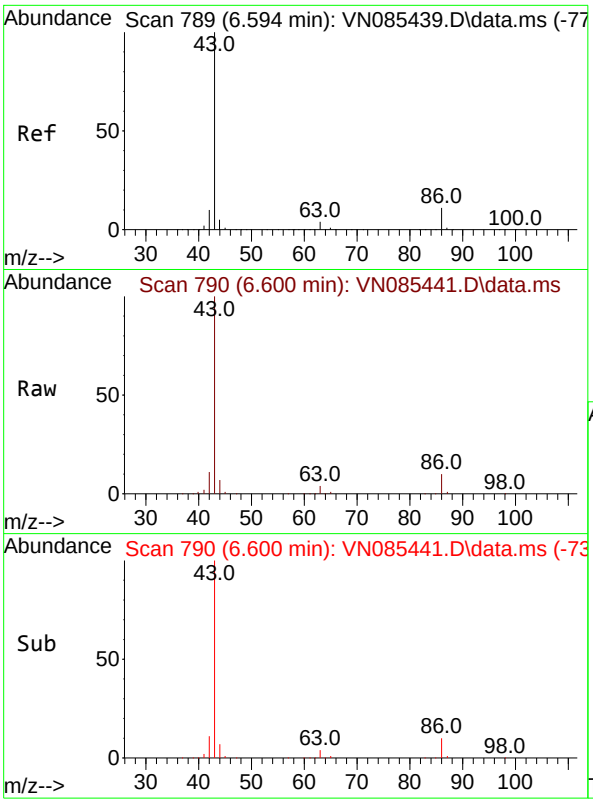


#22
Diisopropyl ether
Concen: 9.490 ug/l
RT: 6.671 min Scan# 802
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 45 Resp: 71857

Ion	Ratio	Lower	Upper
45	100		
43	53.2	45.0	67.6
87	28.8	21.8	32.8
59	13.2	10.2	15.2



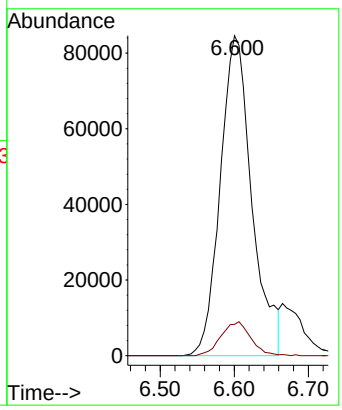


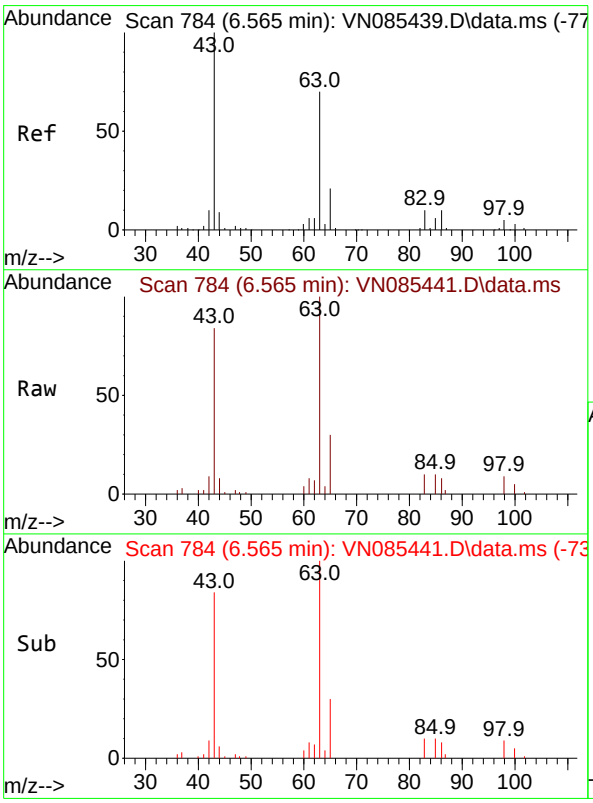
#23
Vinyl Acetate
Concen: 47.125 ug/l
RT: 6.600 min Scan# 7
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion: 43 Resp: 250575

Ion	Ratio	Lower	Upper
43	100		
86	9.8	8.4	12.6

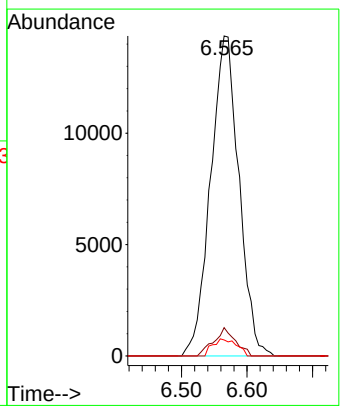


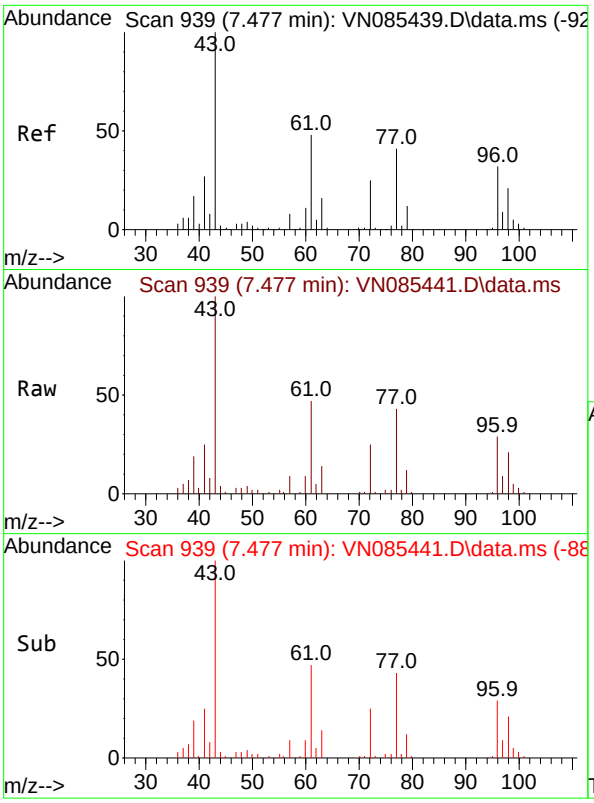


#24
1,1-Dichloroethane
Concen: 9.335 ug/l
RT: 6.565 min Scan# 784
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 63 Resp: 43099

Ion	Ratio	Lower	Upper
63	100		
98	8.8	3.3	9.8
100	5.0	2.0	6.0



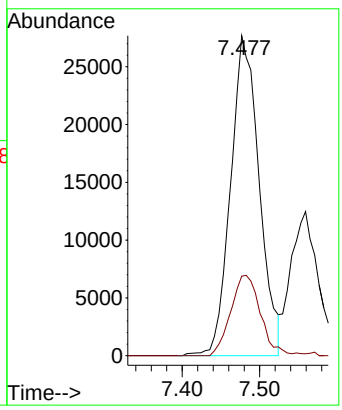


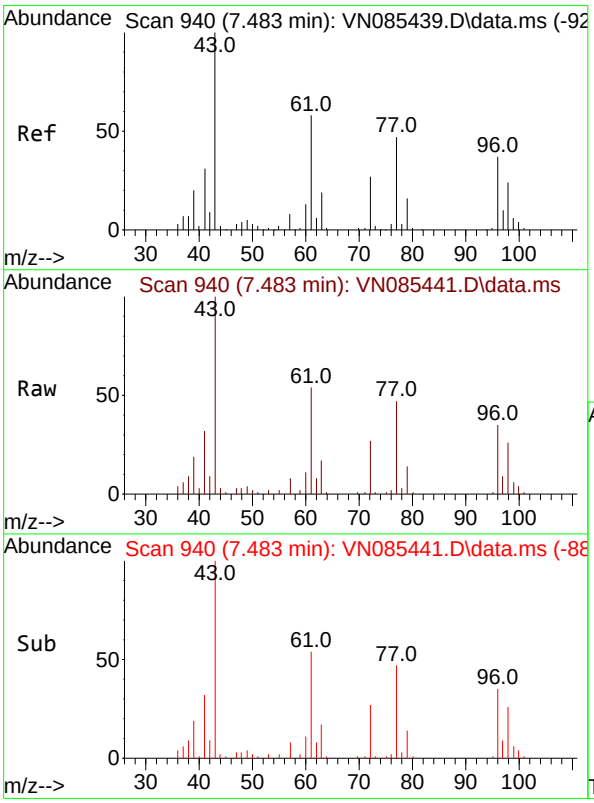
#25
2-Butanone
Concen: 47.350 ug/l
RT: 7.477 min Scan# 9
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion: 43 Resp: 71191

Ion	Ratio	Lower	Upper
43	100		
72	24.8	20.2	30.4

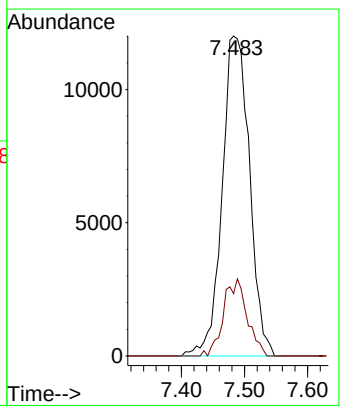


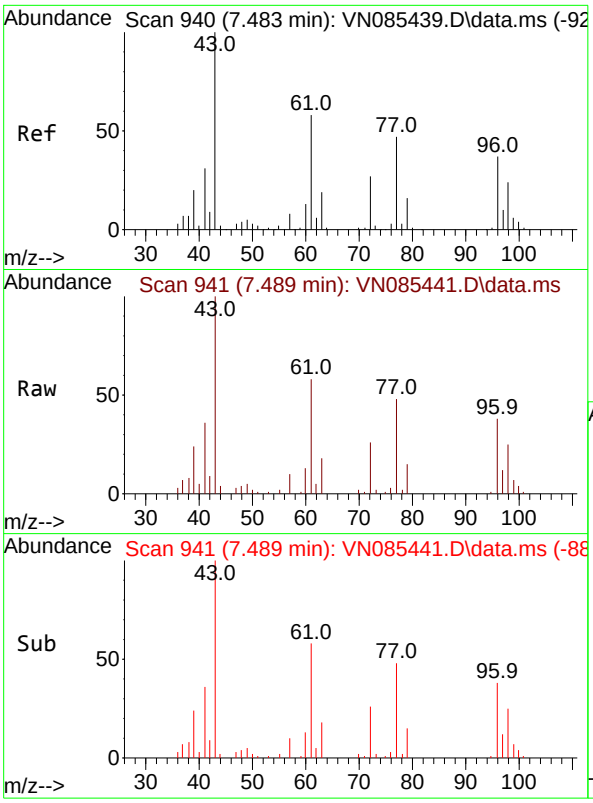


#26
2,2-Dichloropropane
Concen: 9.672 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 77 Resp: 36105

Ion	Ratio	Lower	Upper
77	100		
97	20.8	10.7	32.1



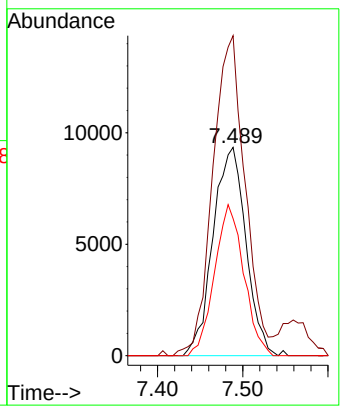


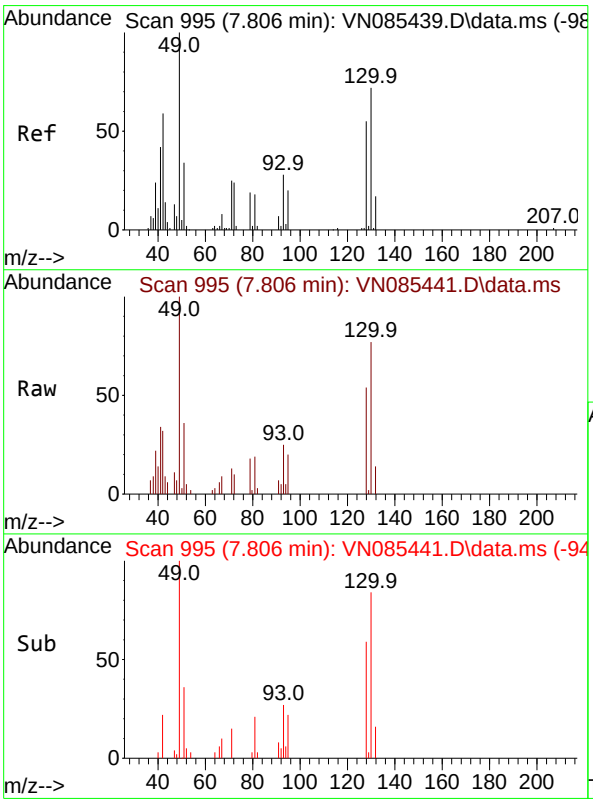
#27
cis-1,2-Dichloroethene
Concen: 9.466 ug/l
RT: 7.489 min Scan# 94
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion: 96 Resp: 25049

Ion	Ratio	Lower	Upper
96	100		
61	151.8	0.0	311.8
98	64.7	0.0	126.0

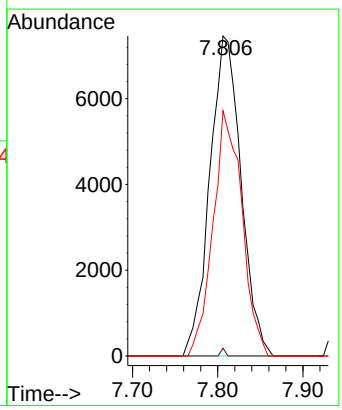


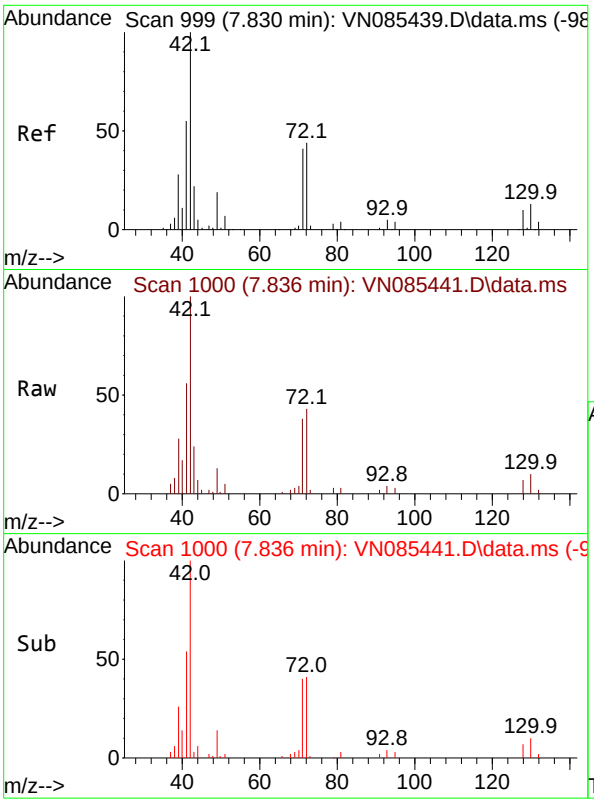


#28
Bromochloromethane
Concen: 8.863 ug/l
RT: 7.806 min Scan# 995
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 49 Resp: 19037

Ion	Ratio	Lower	Upper
49	100		
129	0.3	0.0	4.4
130	70.8	55.0	82.4



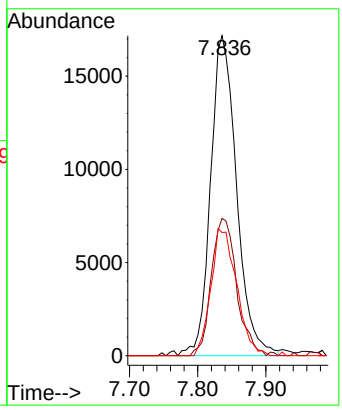


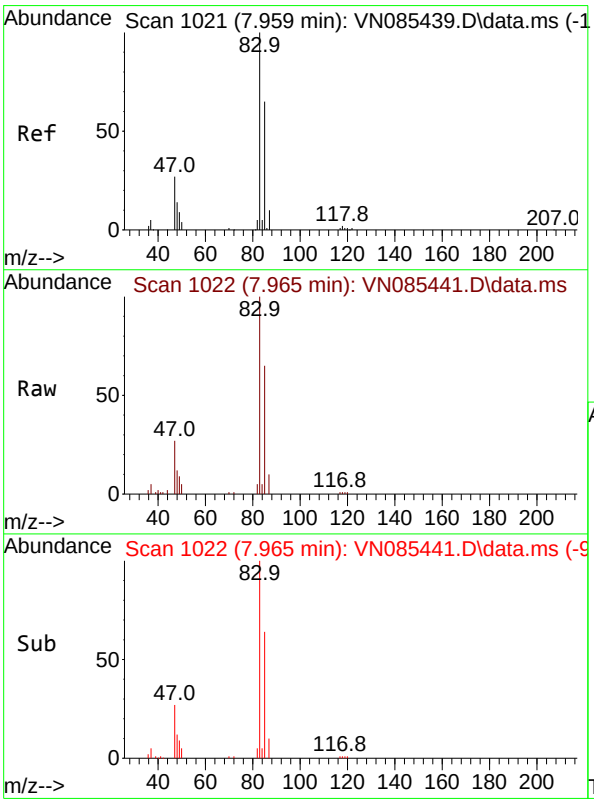
#29
Tetrahydrofuran
Concen: 47.881 ug/l
RT: 7.836 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion: 42 Resp: 45641

Ion	Ratio	Lower	Upper
42	100		
72	41.6	34.2	51.2
71	39.2	32.5	48.7

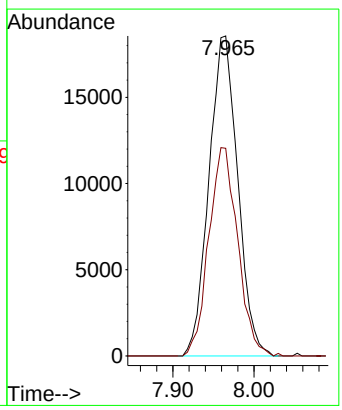


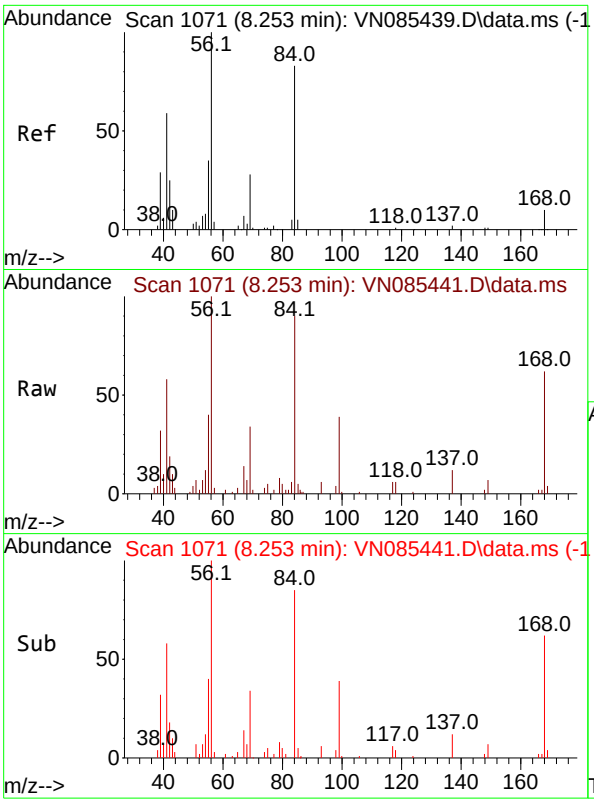


#30
Chloroform
Concen: 9.596 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 83 Resp: 45792

Ion	Ratio	Lower	Upper
83	100		
85	64.9	51.8	77.6



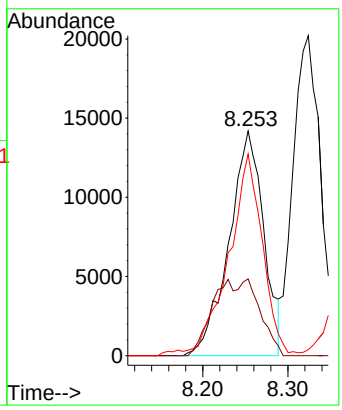


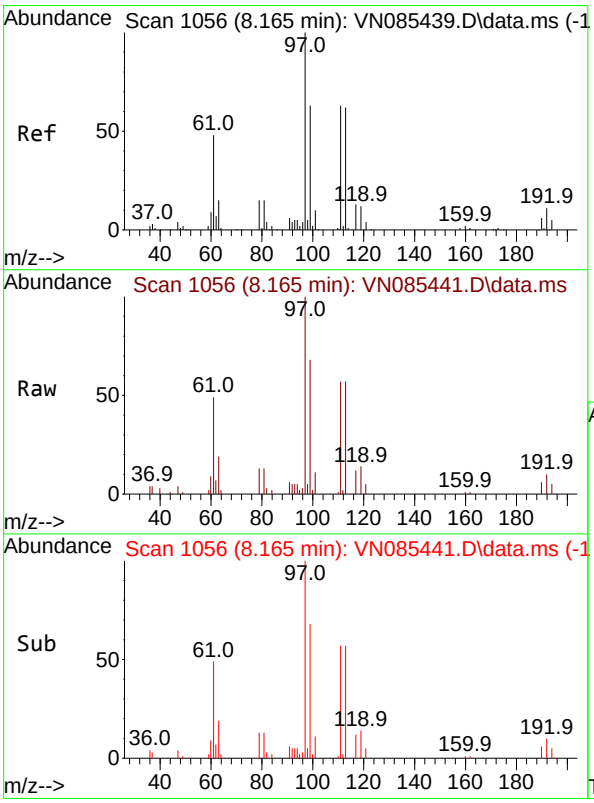
#31
Cyclohexane
Concen: 10.020 ug/l
RT: 8.253 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion: 56 Resp: 40211

Ion	Ratio	Lower	Upper
56	100		
69	34.2	22.2	33.4#
84	87.2	66.4	99.6

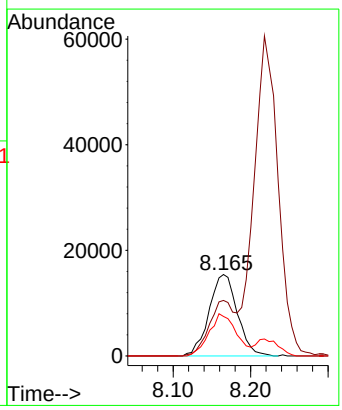


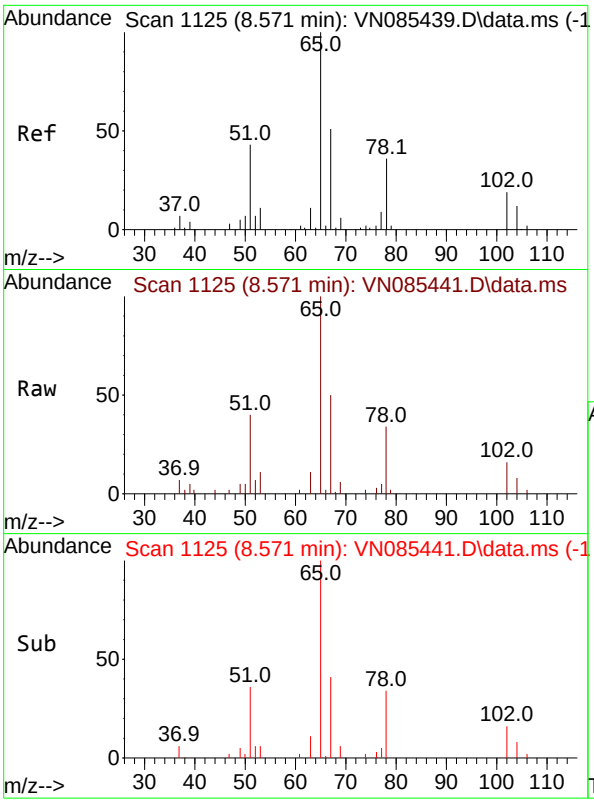


#32
1,1,1-Trichloroethane
Concen: 9.358 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 97 Resp: 39170

Ion	Ratio	Lower	Upper
97	100		
99	62.6	49.8	74.6
61	50.2	41.4	62.2



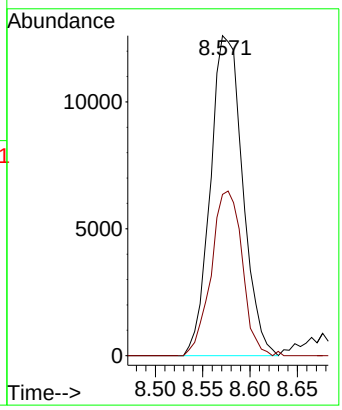


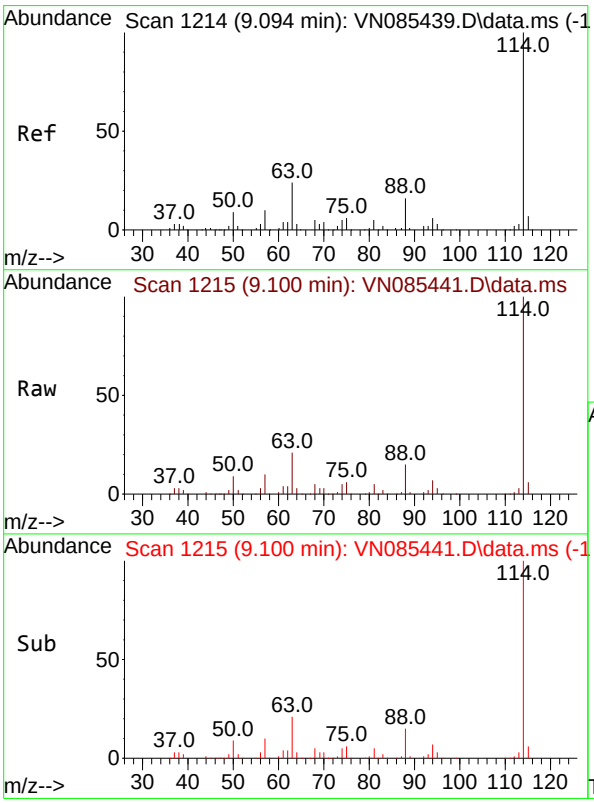
#33
1,2-Dichloroethane-d4
Concen: 9.442 ug/l
RT: 8.571 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion: 65 Resp: 29856

Ion	Ratio	Lower	Upper
65	100		
67	49.5	0.0	101.6

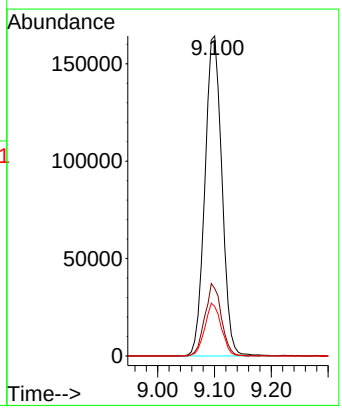


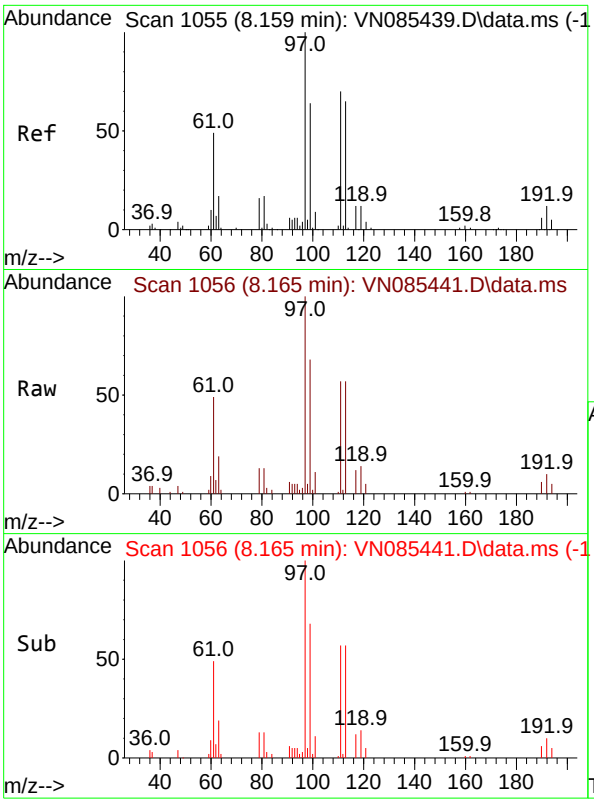


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:114 Resp: 340403

Ion	Ratio	Lower	Upper
114	100		
63	21.1	0.0	47.6
88	15.5	0.0	32.6



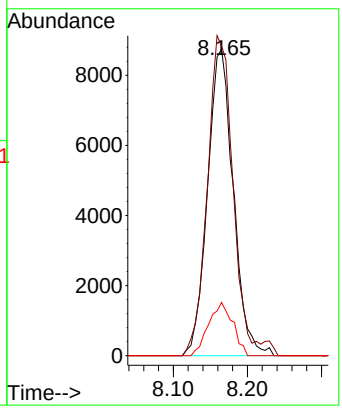


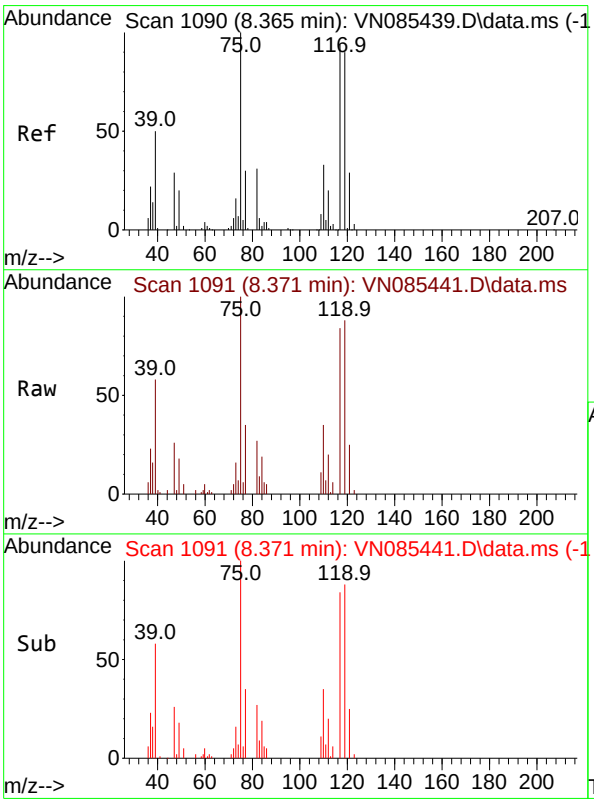
#35
Dibromofluoromethane
Concen: 8.939 ug/l
RT: 8.165 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion:113 Resp: 21110

Ion	Ratio	Lower	Upper
113	100		
111	103.4	82.7	124.1
192	16.4	14.3	21.5

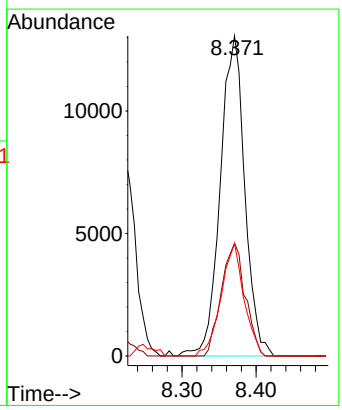


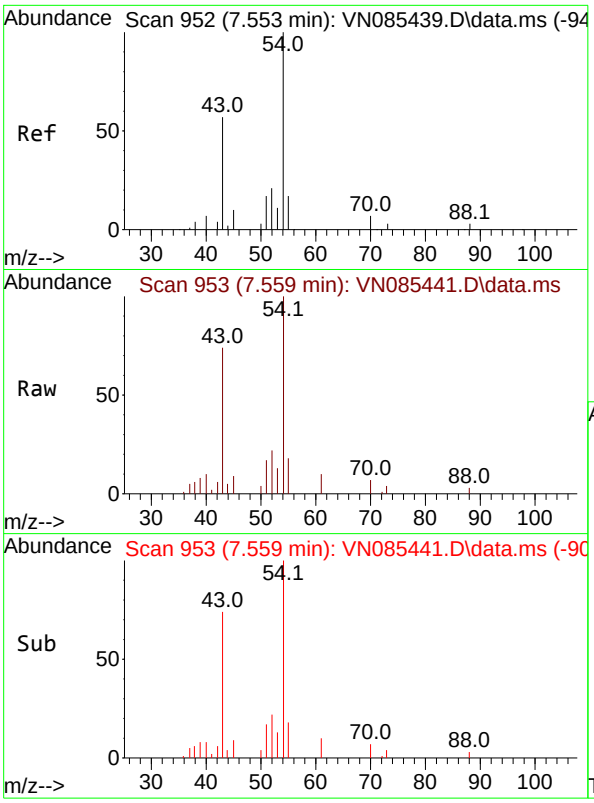


#36
1,1-Dichloropropene
Concen: 9.056 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 75 Resp: 30015

Ion	Ratio	Lower	Upper
75	100		
110	34.3	16.5	49.5
77	32.9	24.4	36.6



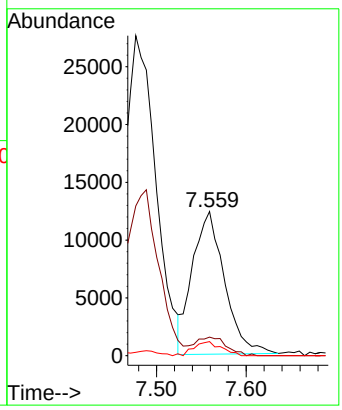


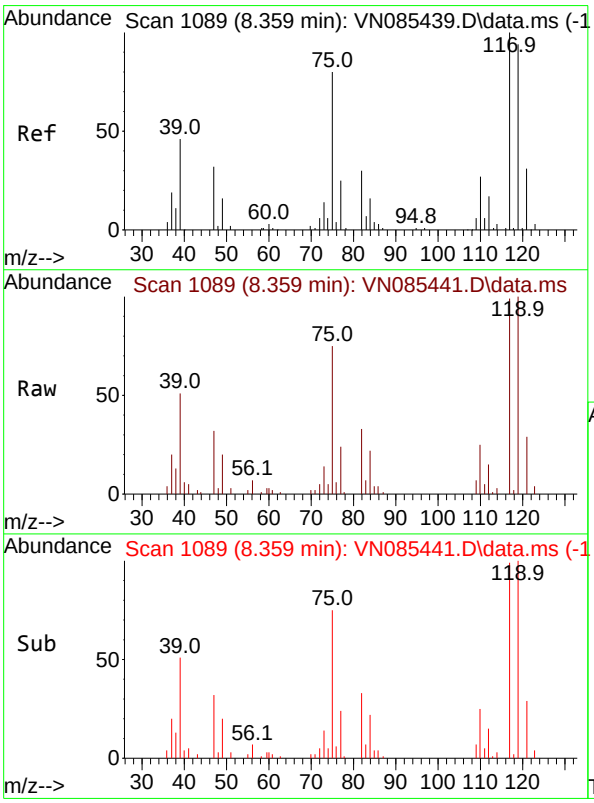
#37
Ethyl Acetate
Concen: 9.195 ug/l
RT: 7.559 min Scan# 9
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion: 43 Resp: 30760

Ion	Ratio	Lower	Upper
43	100		
61	12.2	10.9	16.3
70	8.4	7.5	11.3

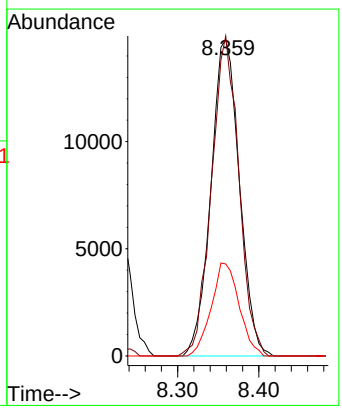


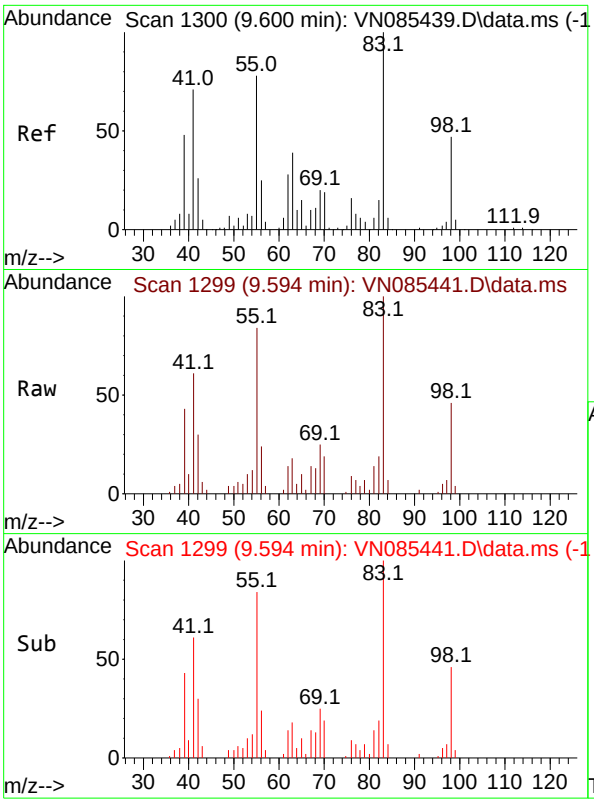


#38
Carbon Tetrachloride
Concen: 9.492 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:117 Resp: 36015

Ion	Ratio	Lower	Upper
117	100		
119	101.2	75.4	113.2
121	29.1	24.6	37.0



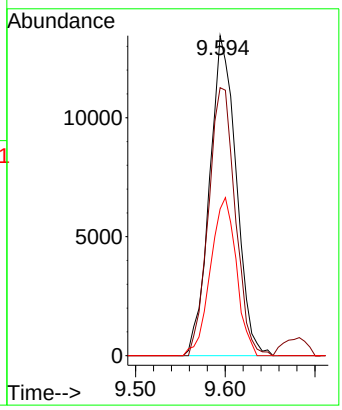


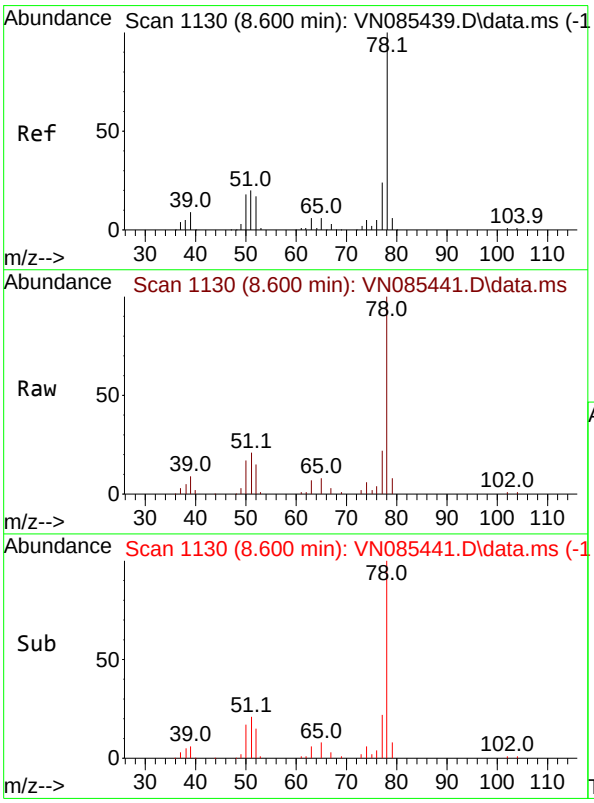
#39
Methylcyclohexane
Concen: 8.900 ug/l
RT: 9.594 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion: 83 Resp: 27721

Ion	Ratio	Lower	Upper
83	100		
55	83.8	62.6	94.0
98	45.8	37.7	56.5

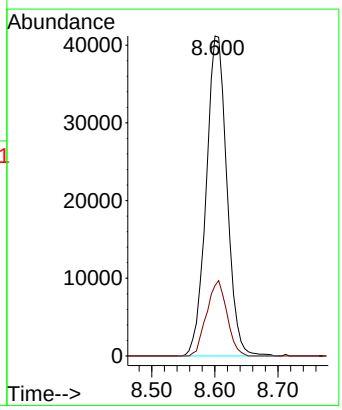


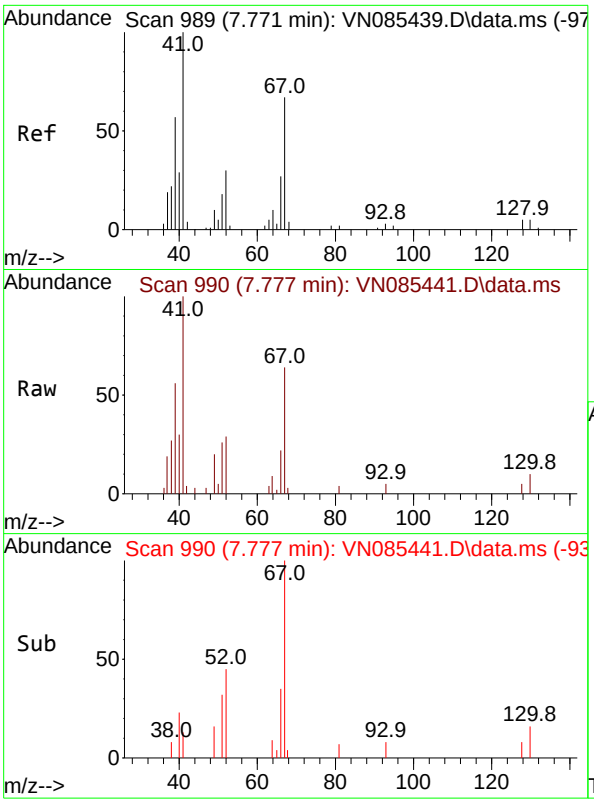


#40
Benzene
Concen: 9.407 ug/l
RT: 8.600 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 78 Resp: 93680

Ion	Ratio	Lower	Upper
78	100		
77	22.0	19.0	28.6



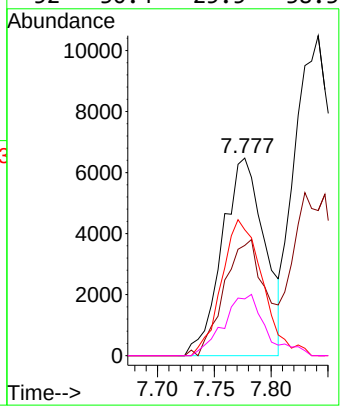


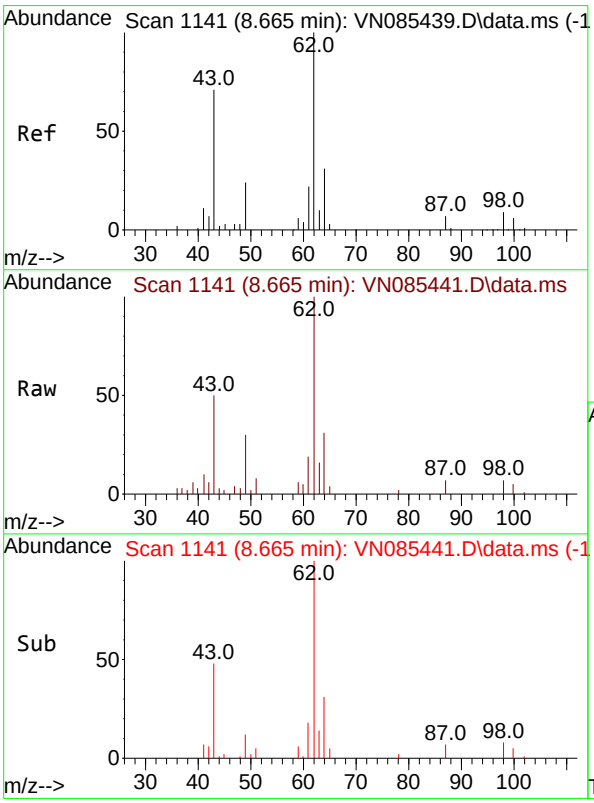
#41
Methacrylonitrile
Concen: 9.686 ug/l
RT: 7.777 min Scan# 9
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion: 41 Resp: 16859

Ion	Ratio	Lower	Upper
41	100		
39	57.3	46.0	69.0
67	66.2	57.4	86.2
52	30.4	25.5	38.3

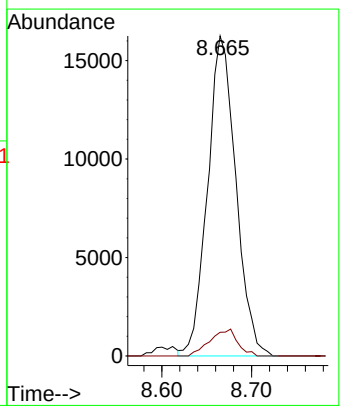


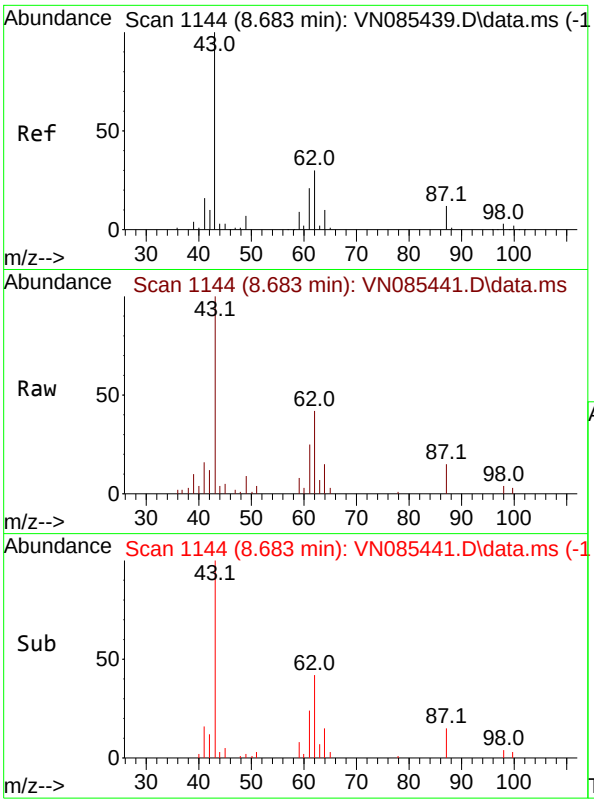


#42
1,2-Dichloroethane
Concen: 9.483 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 62 Resp: 35569

Ion	Ratio	Lower	Upper
62	100		
98	8.2	0.0	17.0



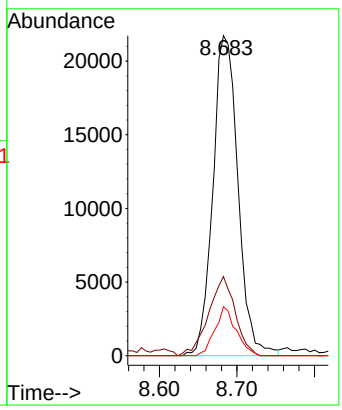


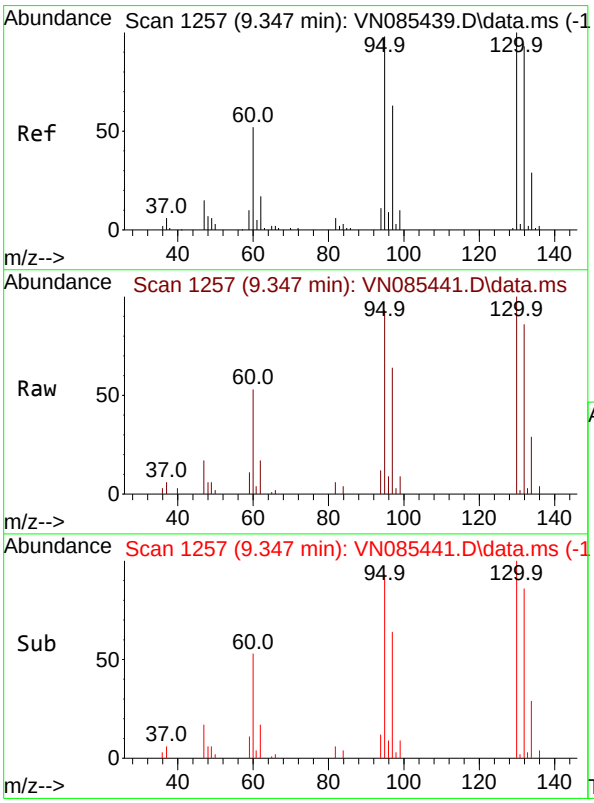
#43
Isopropyl Acetate
Concen: 9.127 ug/l
RT: 8.683 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion: 43 Resp: 48926

Ion	Ratio	Lower	Upper
43	100		
61	26.2	20.7	31.1
87	12.8	9.8	14.8

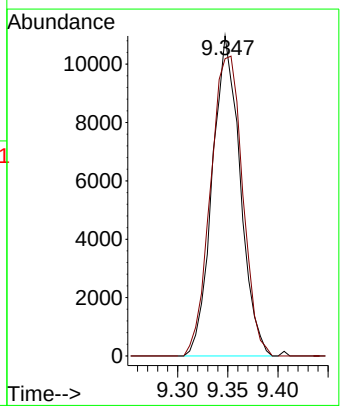


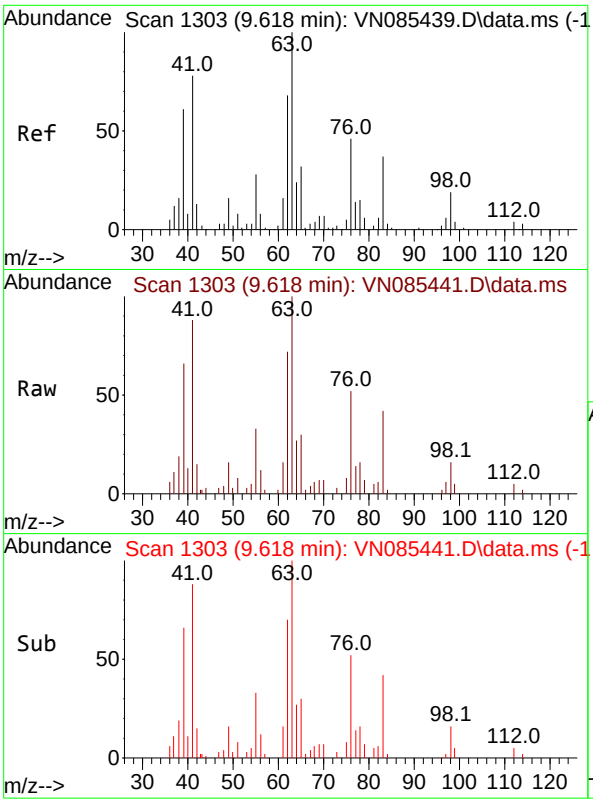


#44
Trichloroethene
Concen: 9.108 ug/l
RT: 9.347 min Scan# 1257
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:130 Resp: 21113

Ion	Ratio	Lower	Upper
130	100		
95	92.9	0.0	195.8



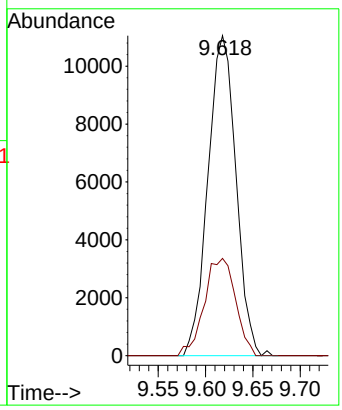


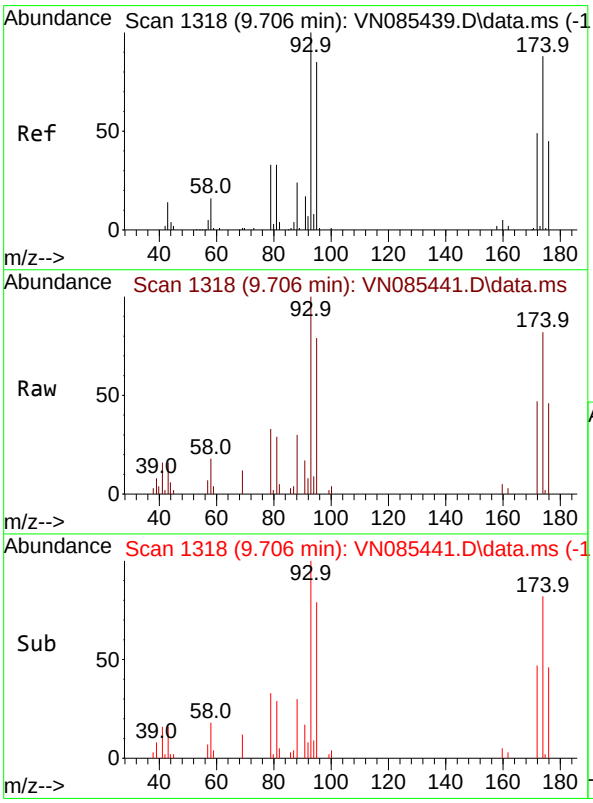
#45
1,2-Dichloropropane
Concen: 8.942 ug/l
RT: 9.618 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion: 63 Resp: 22747

Ion	Ratio	Lower	Upper
63	100		
65	30.4	25.6	38.4

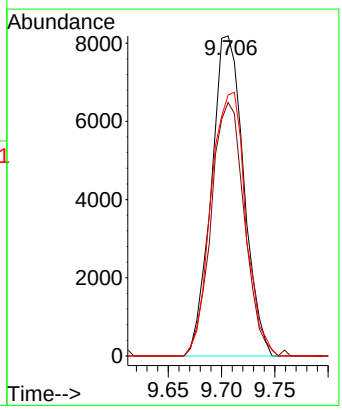


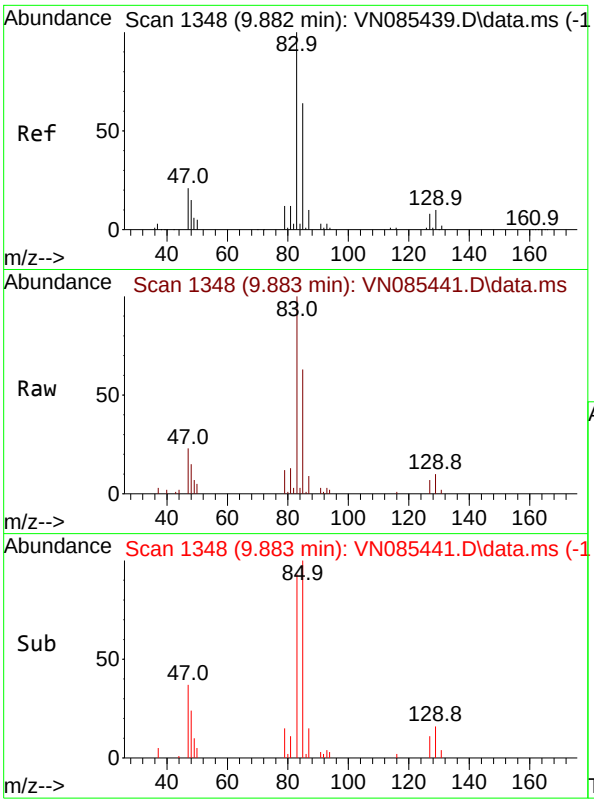


#46
Dibromomethane
Concen: 9.404 ug/l
RT: 9.706 min Scan# 1318
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 93 Resp: 17260

Ion	Ratio	Lower	Upper
93	100		
95	81.5	64.7	97.1
174	87.8	69.0	103.4



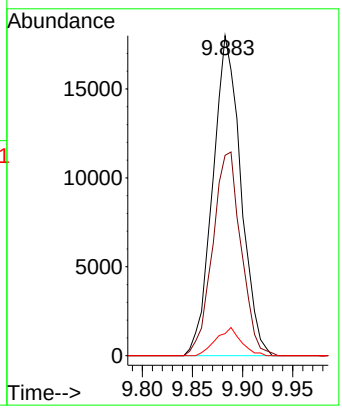


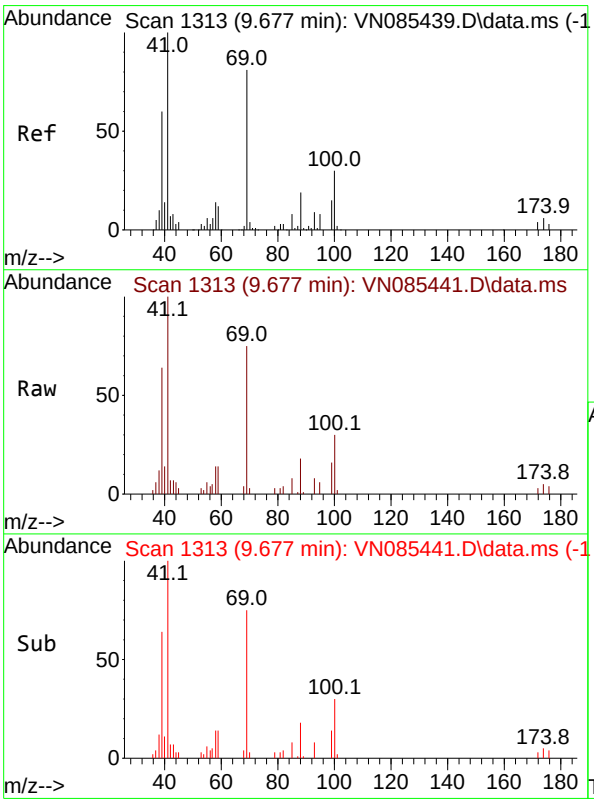
#47
Bromodichloromethane
Concen: 9.365 ug/l
RT: 9.883 min Scan# 1
Delta R.T. 0.001 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion: 83 Resp: 35020

Ion	Ratio	Lower	Upper
83	100		
85	62.6	51.2	76.8
127	6.9	6.5	9.7

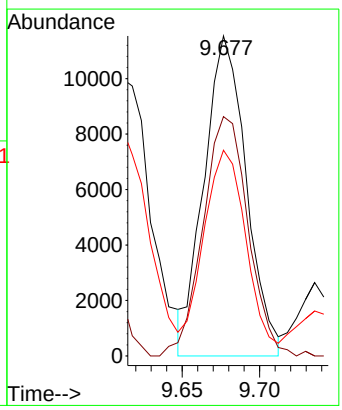


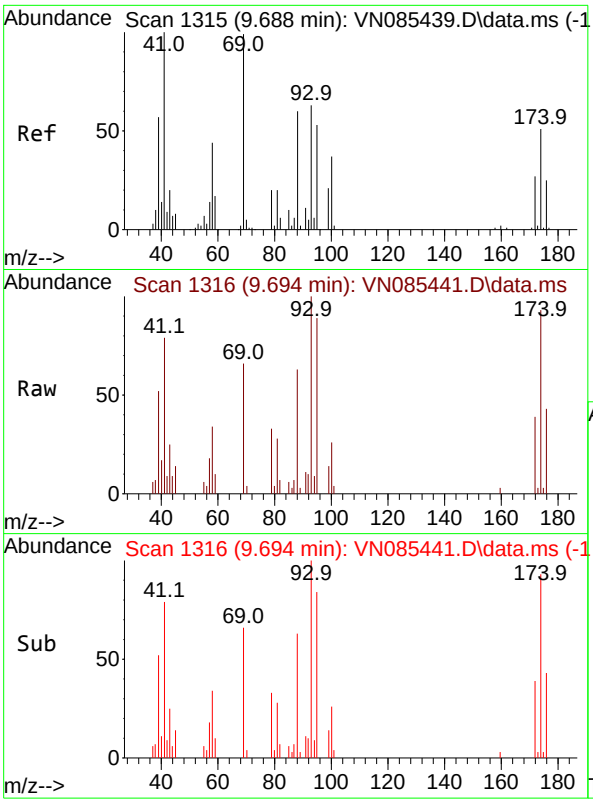


#48
Methyl methacrylate
Concen: 9.067 ug/l
RT: 9.677 min Scan# 1313
Delta R.T. -0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 41 Resp: 21873

Ion	Ratio	Lower	Upper
41	100		
69	80.0	64.7	97.1
39	65.2	49.0	73.6



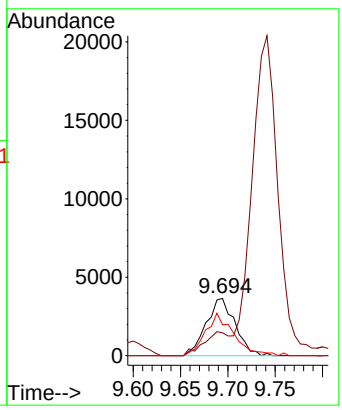


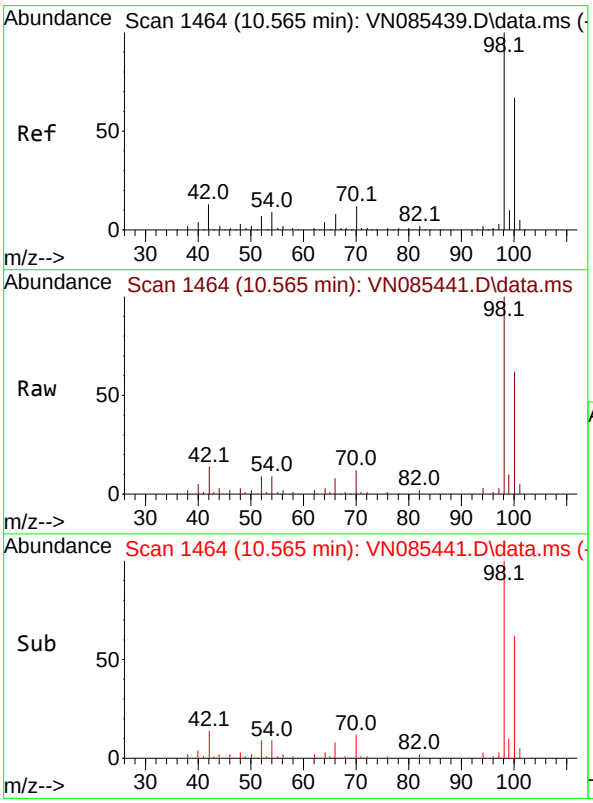
#49
1,4-Dioxane
Concen: 190.382 ug/l
RT: 9.694 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion: 88 Resp: 7734

Ion	Ratio	Lower	Upper
88	100		
43	35.2	26.6	39.8
58	73.3	59.5	89.3

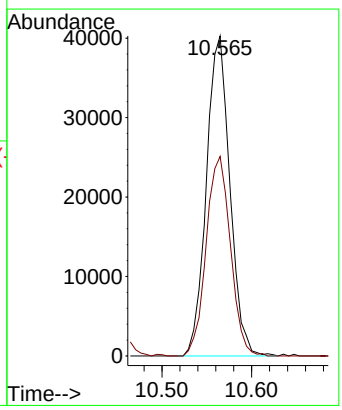


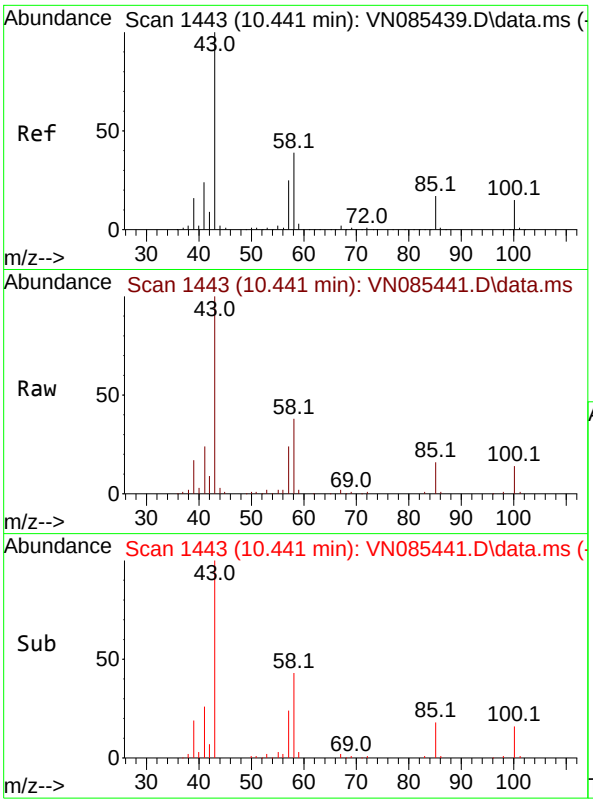


#50
Toluene-d8
Concen: 8.727 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 98 Resp: 73223

Ion	Ratio	Lower	Upper
98	100		
100	64.5	52.2	78.4



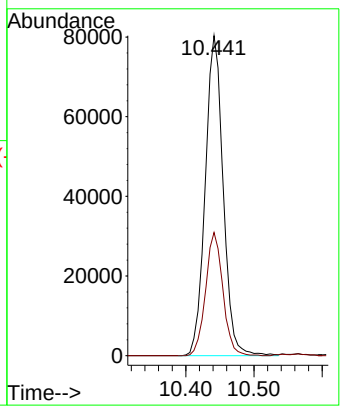


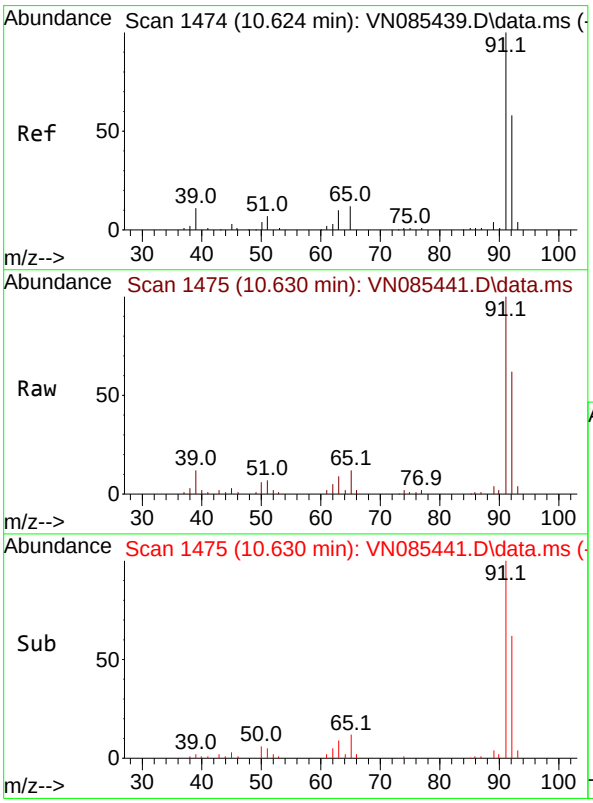
#51
4-Methyl-2-Pentanone
Concen: 47.254 ug/l
RT: 10.441 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion: 43 Resp: 146990

Ion	Ratio	Lower	Upper
43	100		
58	37.1	30.5	45.7

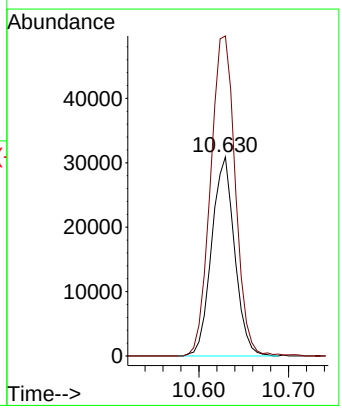


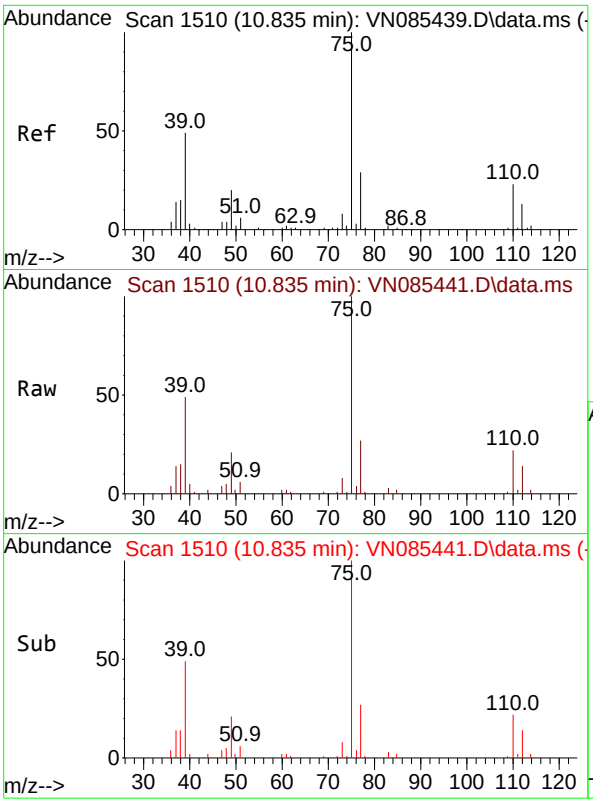


#52
Toluene
Concen: 9.527 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 92 Resp: 54976

Ion	Ratio	Lower	Upper
92	100		
91	173.7	139.2	208.8



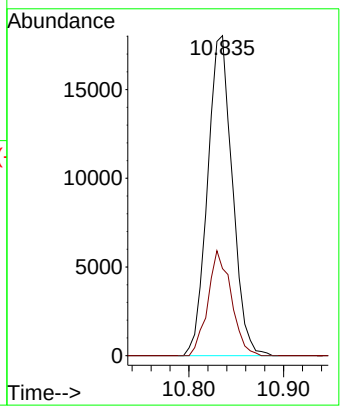


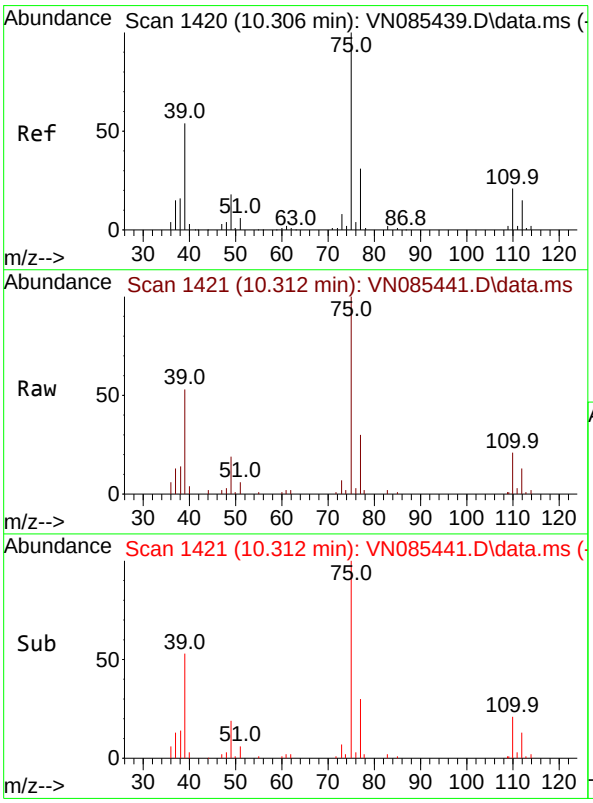
#53
t-1,3-Dichloropropene
Concen: 9.276 ug/l
RT: 10.835 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion: 75 Resp: 32780

Ion	Ratio	Lower	Upper
75	100		
77	27.2	23.5	35.3

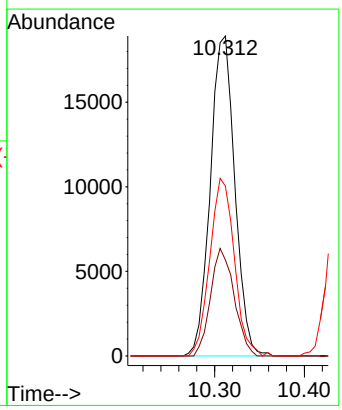


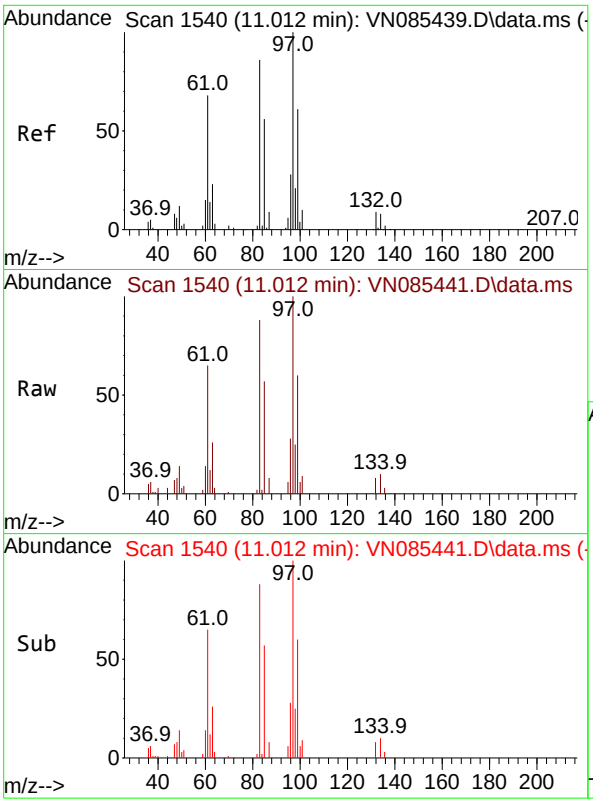


#54
cis-1,3-Dichloropropene
Concen: 9.512 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 75 Resp: 35904

Ion	Ratio	Lower	Upper
75	100		
77	30.0	25.0	37.4
39	53.1	43.1	64.7



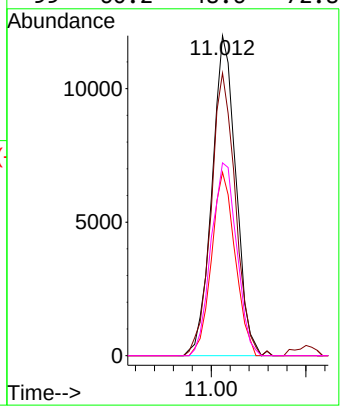


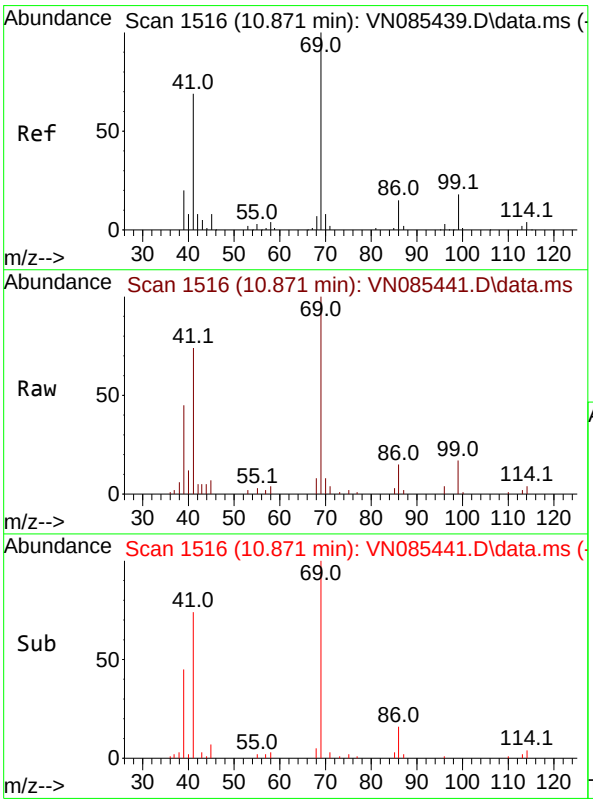
#55
1,1,2-Trichloroethane
Concen: 9.222 ug/l
RT: 11.012 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion: 97 Resp: 21060

Ion	Ratio	Lower	Upper
97	100		
83	88.3	69.0	103.6
85	57.3	44.6	66.8
99	60.2	48.6	72.8

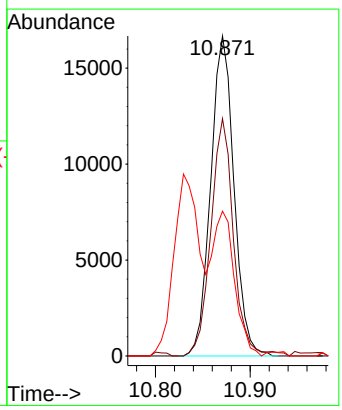


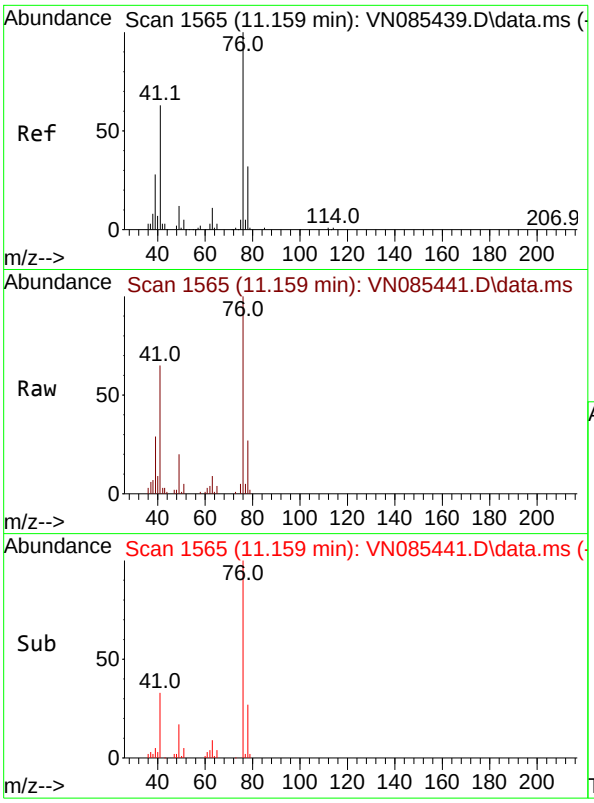


#56
Ethyl methacrylate
Concen: 9.042 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 69 Resp: 28454

Ion	Ratio	Lower	Upper
69	100		
41	72.1	54.6	82.0
39	43.4	32.4	48.6



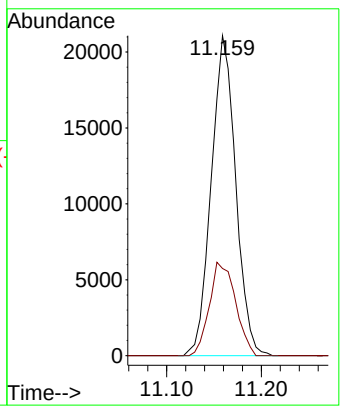


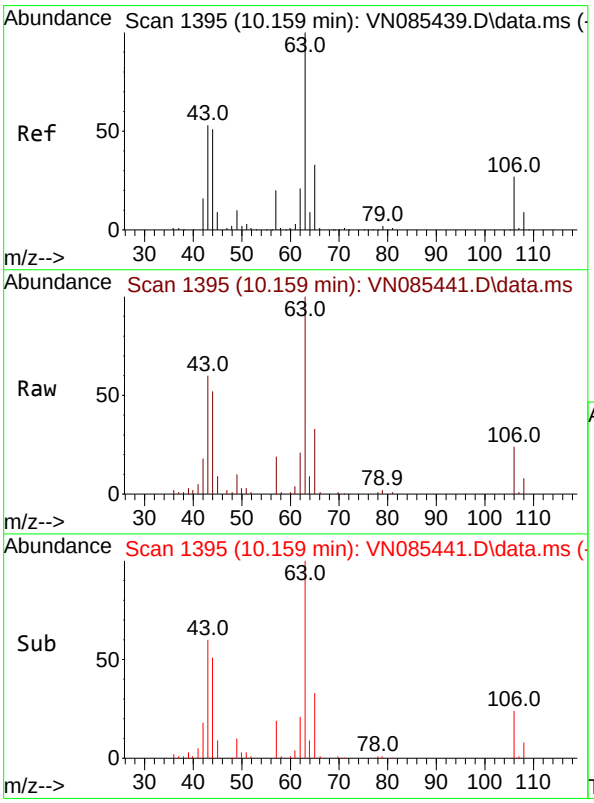
#57
1,3-Dichloropropane
Concen: 9.512 ug/l
RT: 11.159 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion: 76 Resp: 37768

Ion	Ratio	Lower	Upper
76	100		
78	31.1	25.6	38.4

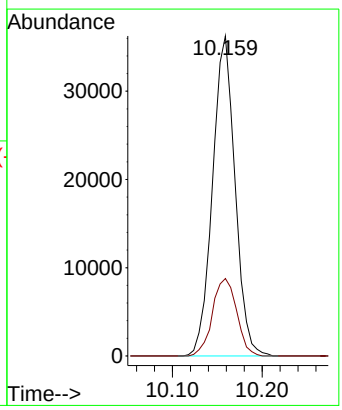


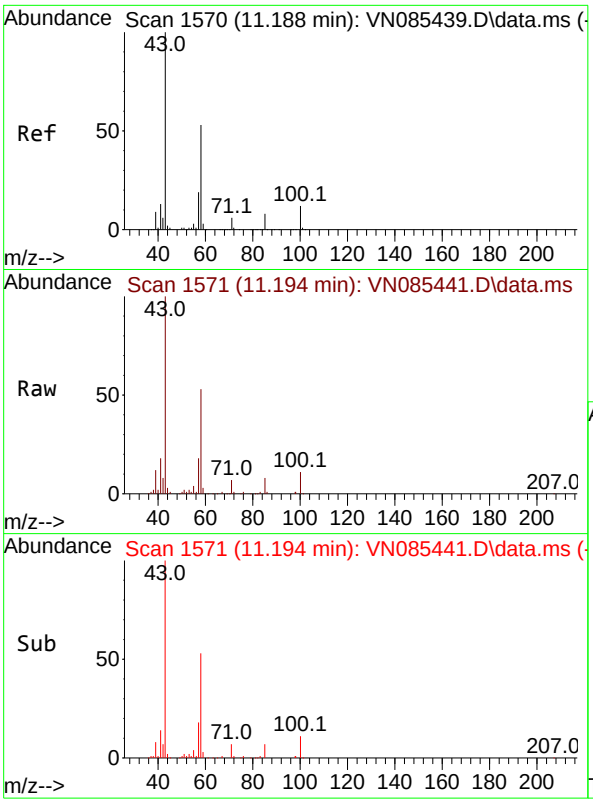


#58
2-Chloroethyl Vinyl ether
Concen: 43.550 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 63 Resp: 63110

Ion	Ratio	Lower	Upper
63	100		
106	26.1	21.6	32.4



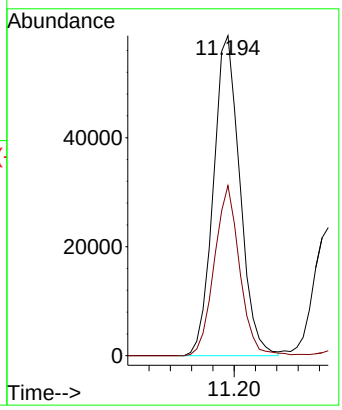


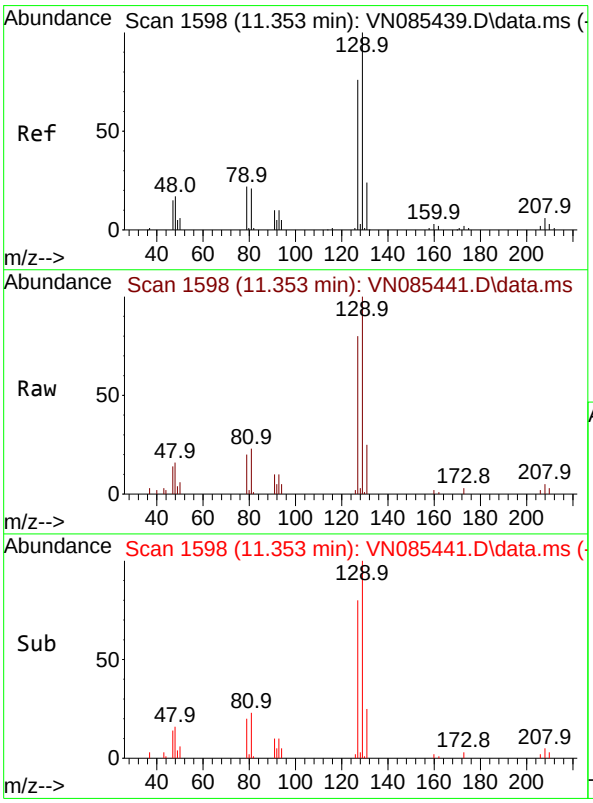
#59
2-Hexanone
Concen: 46.291 ug/l
RT: 11.194 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion: 43 Resp: 101318

Ion	Ratio	Lower	Upper
43	100		
58	50.9	26.2	78.6

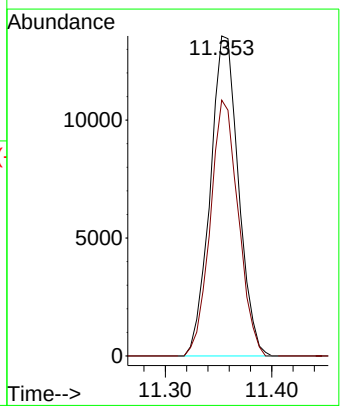


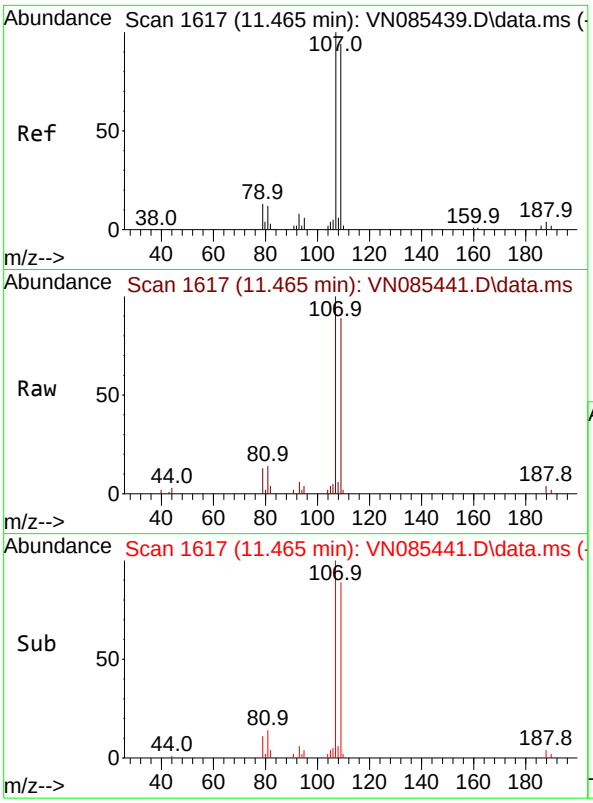


#60
Dibromochloromethane
Concen: 9.079 ug/l
RT: 11.353 min Scan# 1598
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:129 Resp: 25029

Ion	Ratio	Lower	Upper
129	100		
127	79.1	38.6	115.8



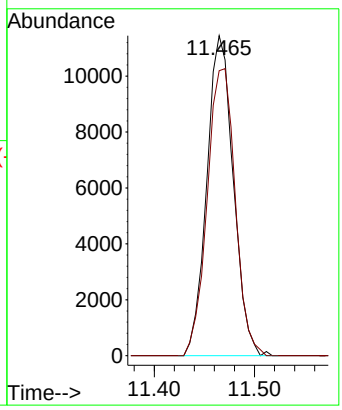


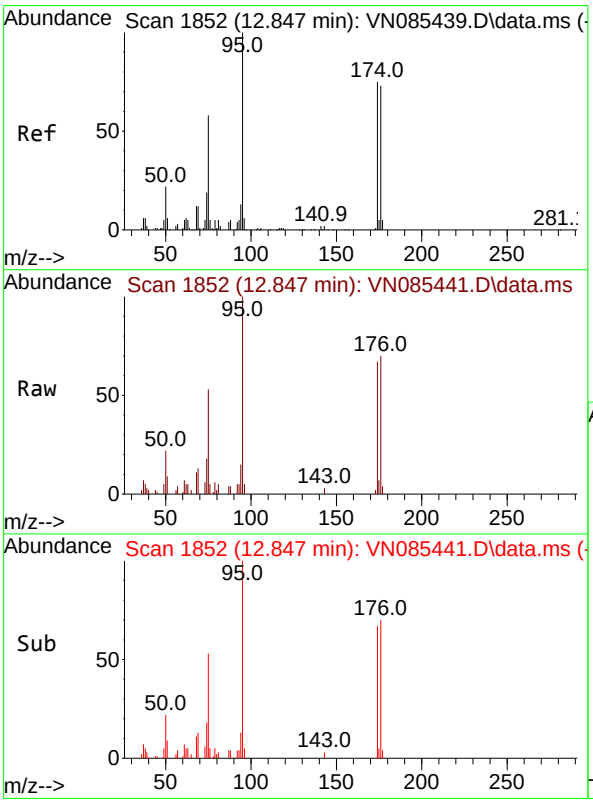
#61
1,2-Dibromoethane
Concen: 9.263 ug/l
RT: 11.465 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion:107 Resp: 21055

Ion	Ratio	Lower	Upper
107	100		
109	94.6	75.9	113.9

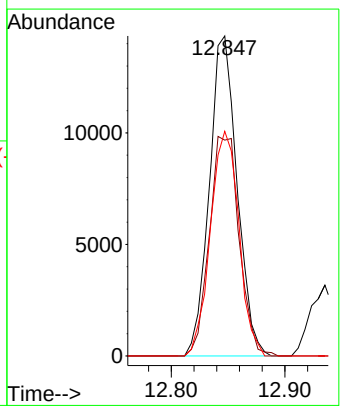


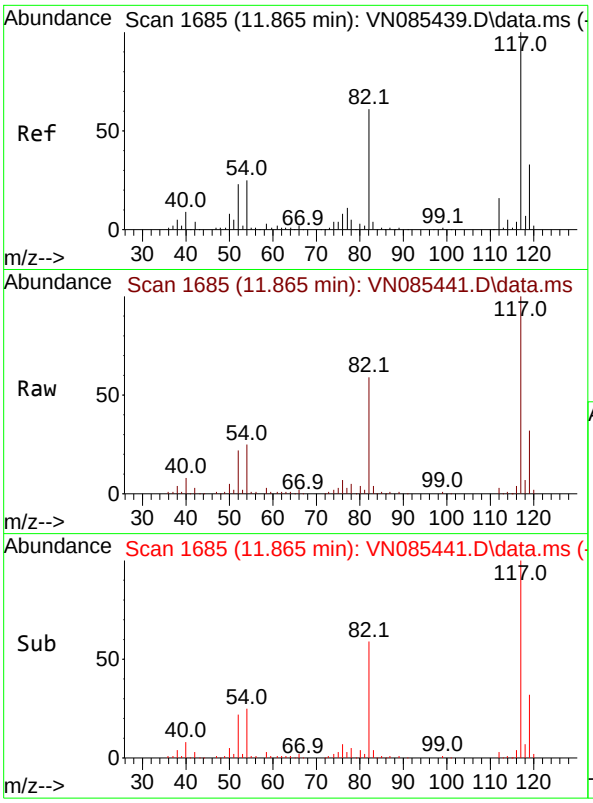


#62
4-Bromofluorobenzene
Concen: 8.476 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 95 Resp: 24327

Ion	Ratio	Lower	Upper
95	100		
174	73.9	0.0	145.0
176	72.1	0.0	142.4



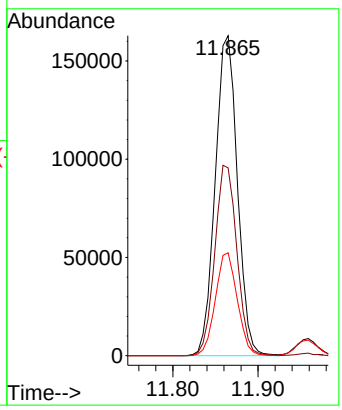


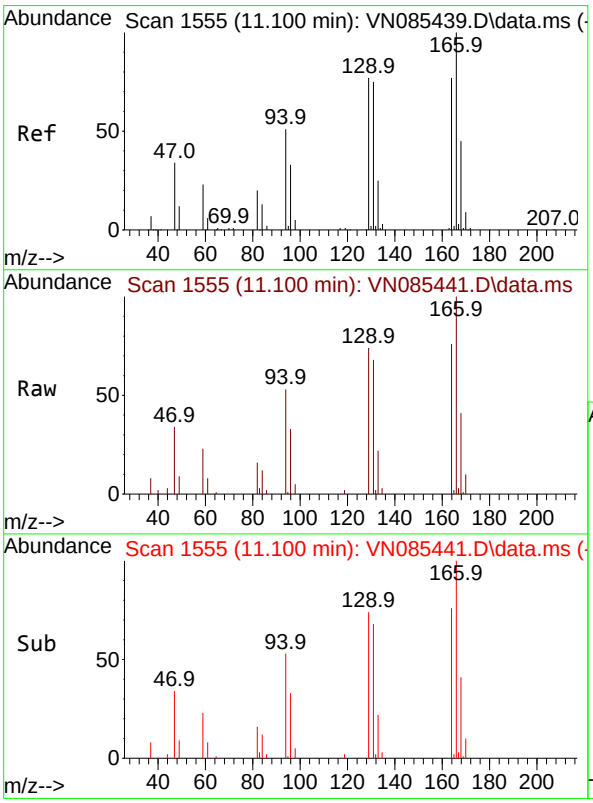
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion:117 Resp: 294508

Ion	Ratio	Lower	Upper
117	100		
82	58.7	48.6	72.8
119	32.2	26.6	39.8

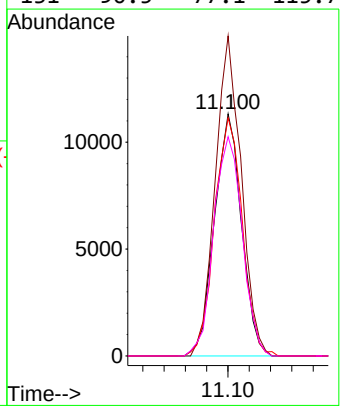


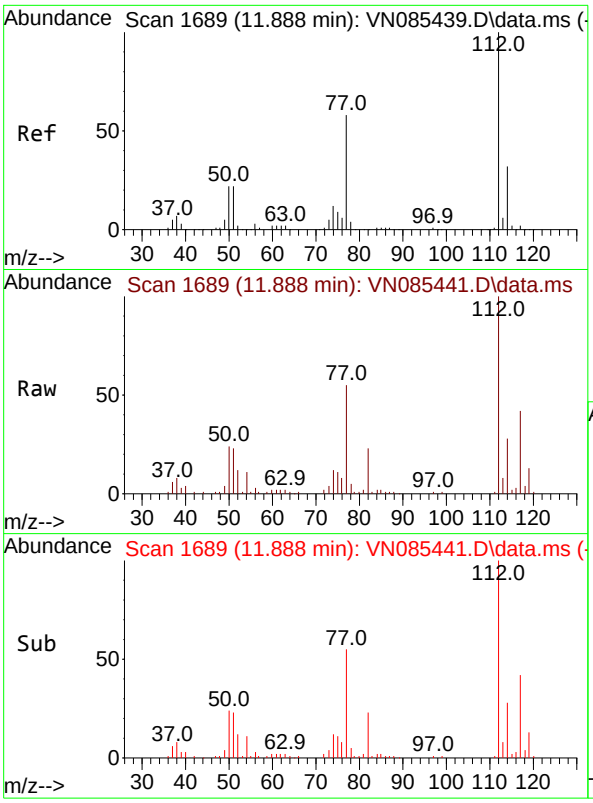


#64
Tetrachloroethene
Concen: 9.928 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:164 Resp: 19934

Ion	Ratio	Lower	Upper
164	100		
166	132.2	103.4	155.2
129	98.3	79.2	118.8
131	90.5	77.1	115.7



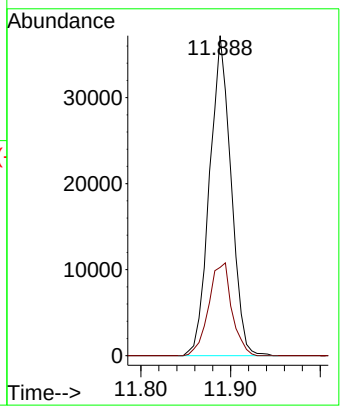


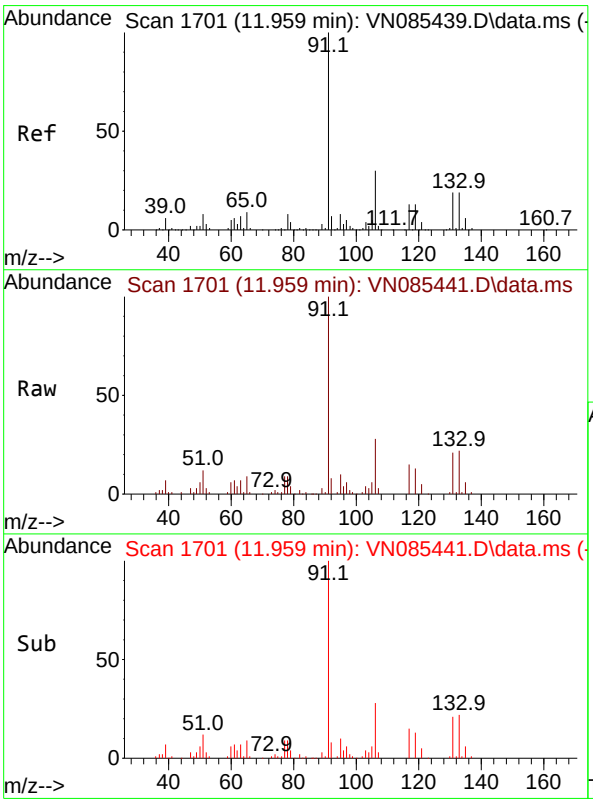
#65
Chlorobenzene
Concen: 9.560 ug/l
RT: 11.888 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion:112 Resp: 61680

Ion	Ratio	Lower	Upper
112	100		
114	27.6	25.3	37.9

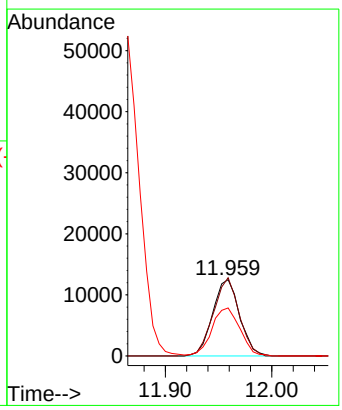


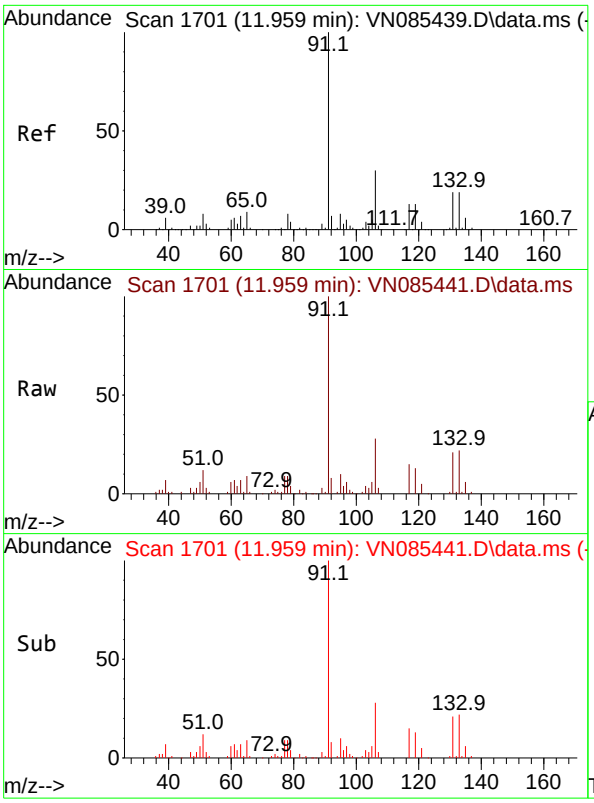


#66
1,1,1,2-Tetrachloroethane
Concen: 9.229 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:131 Resp: 21853

Ion	Ratio	Lower	Upper
131	100		
133	98.5	47.4	142.3
119	66.0	33.1	99.5



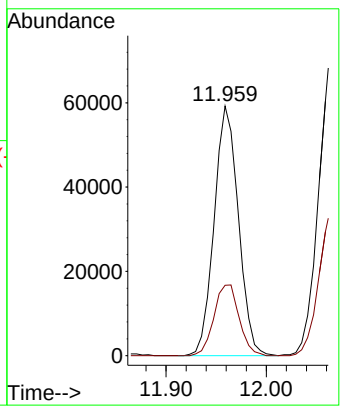


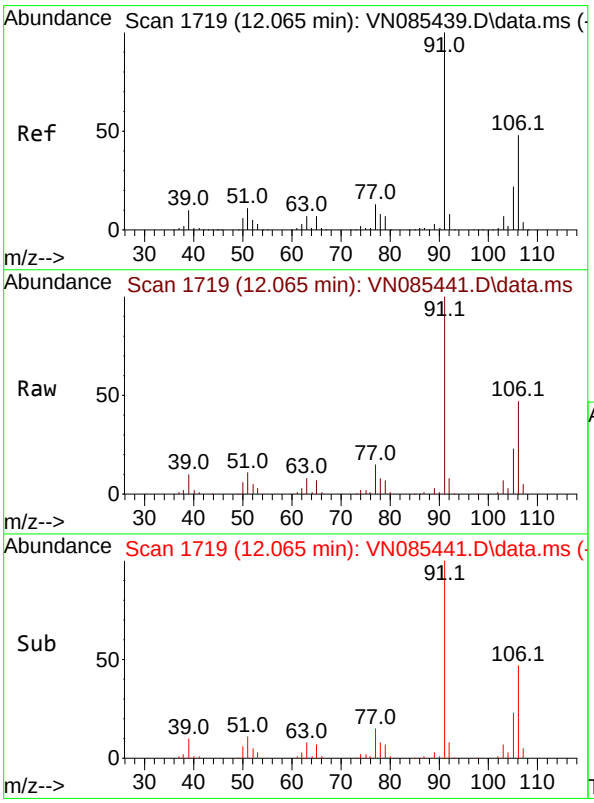
#67
Ethyl Benzene
Concen: 9.445 ug/l
RT: 11.959 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion: 91 Resp: 99248

Ion	Ratio	Lower	Upper
91	100		
106	28.2	23.8	35.8

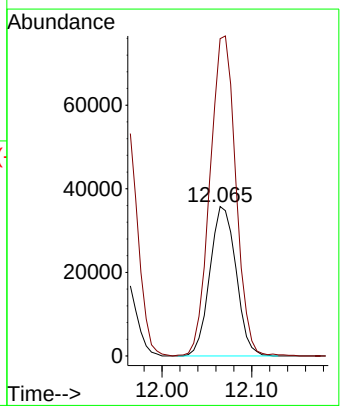


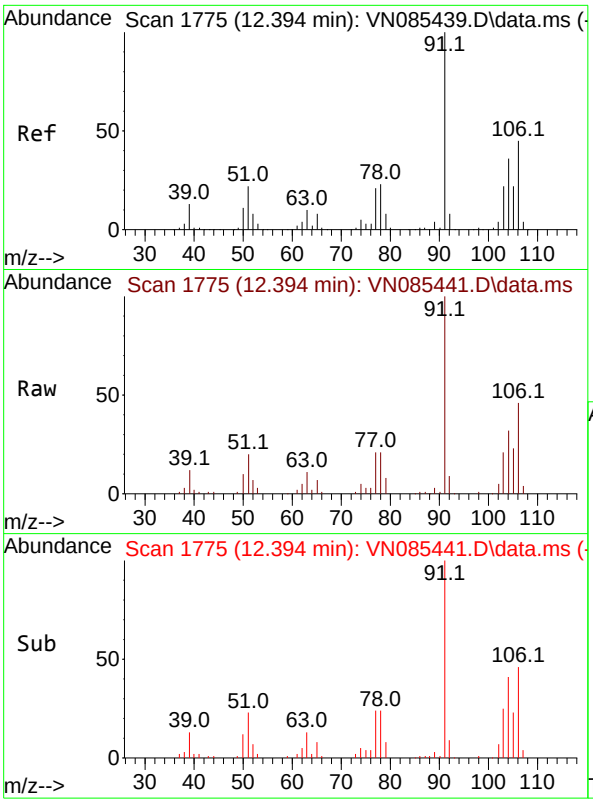


#68
m/p-Xylenes
Concen: 18.650 ug/l
RT: 12.065 min Scan# 1719
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:106 Resp: 72431

Ion	Ratio	Lower	Upper
106	100		
91	211.7	167.7	251.5



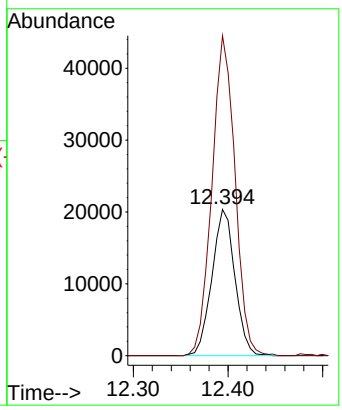


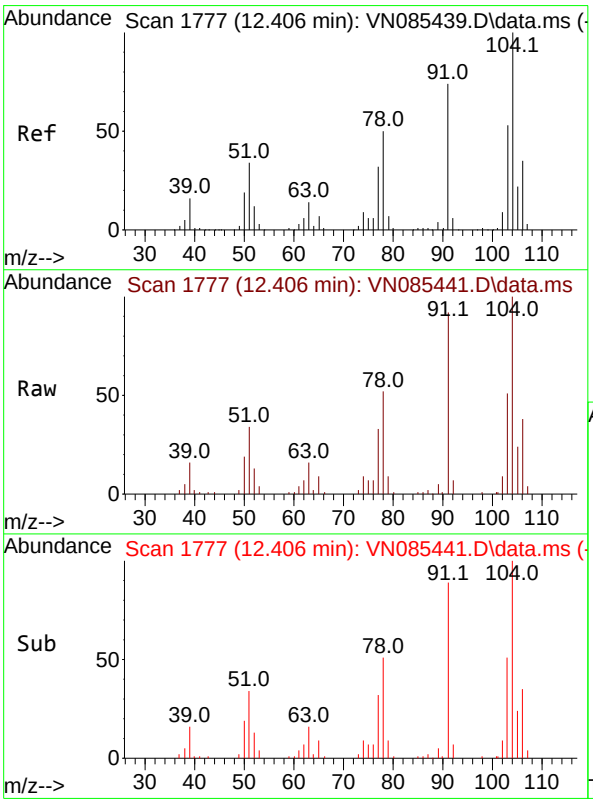
#69
o-Xylene
Concen: 9.264 ug/l
RT: 12.394 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion:106 Resp: 34382

Ion	Ratio	Lower	Upper
106	100		
91	219.5	110.4	331.2

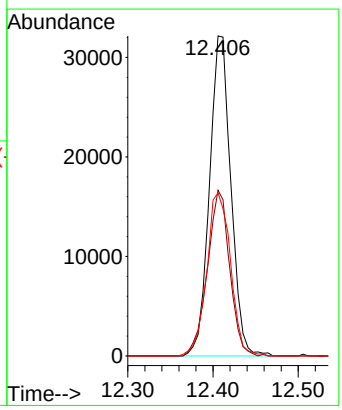


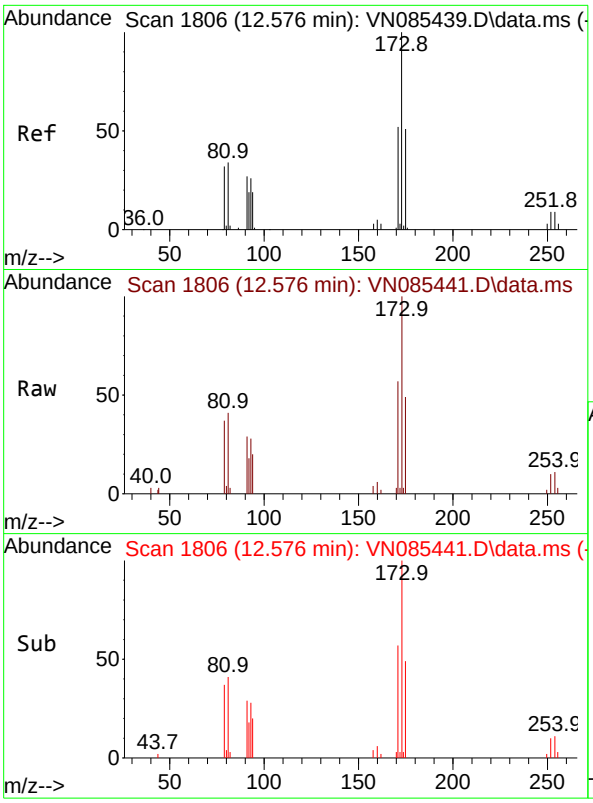


#70
Styrene
Concen: 9.163 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:104 Resp: 56285

Ion	Ratio	Lower	Upper
104	100		
78	53.8	42.5	63.7
103	56.8	43.8	65.8



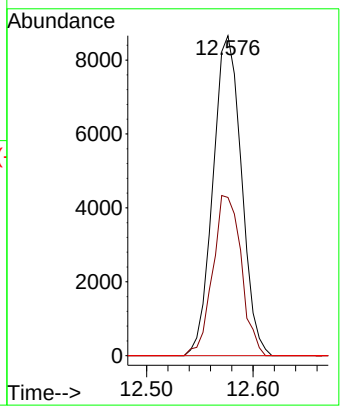


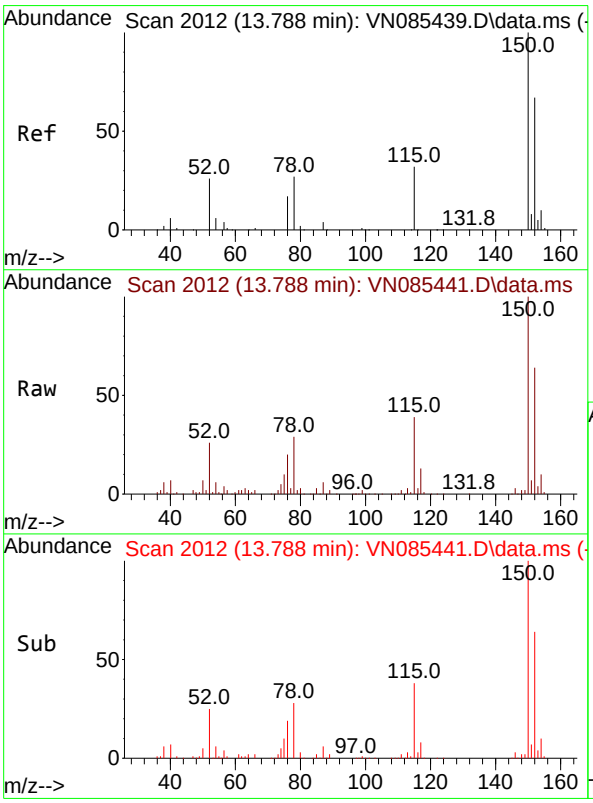
#71
Bromoform
Concen: 9.485 ug/l
RT: 12.576 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion:173 Resp: 16071

Ion	Ratio	Lower	Upper
173	100		
175	50.0	24.4	73.2
254	0.0	0.0	0.0

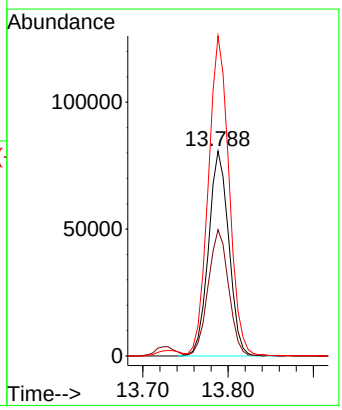


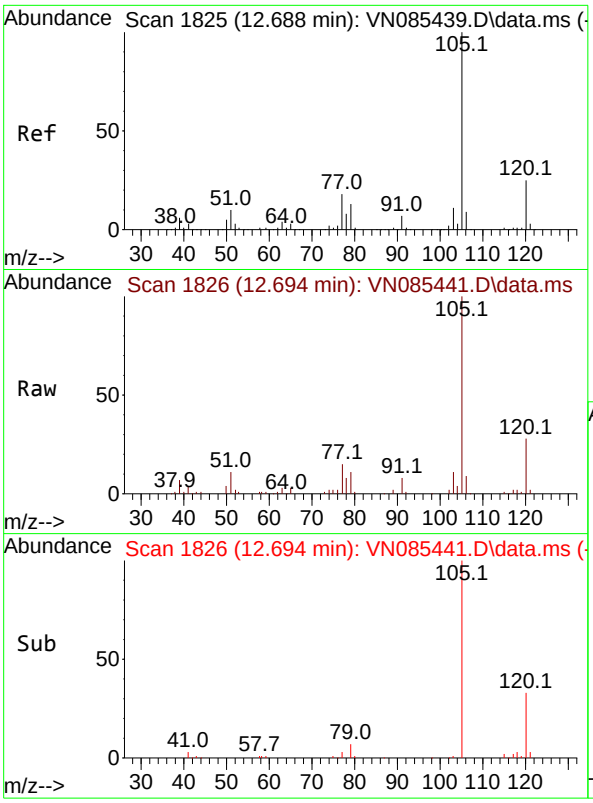


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:152 Resp: 132934

Ion	Ratio	Lower	Upper
152	100		
115	62.3	31.1	93.3
150	159.8	0.0	343.6



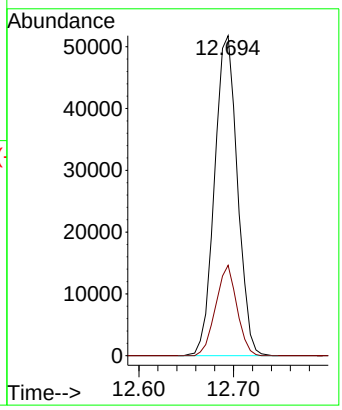


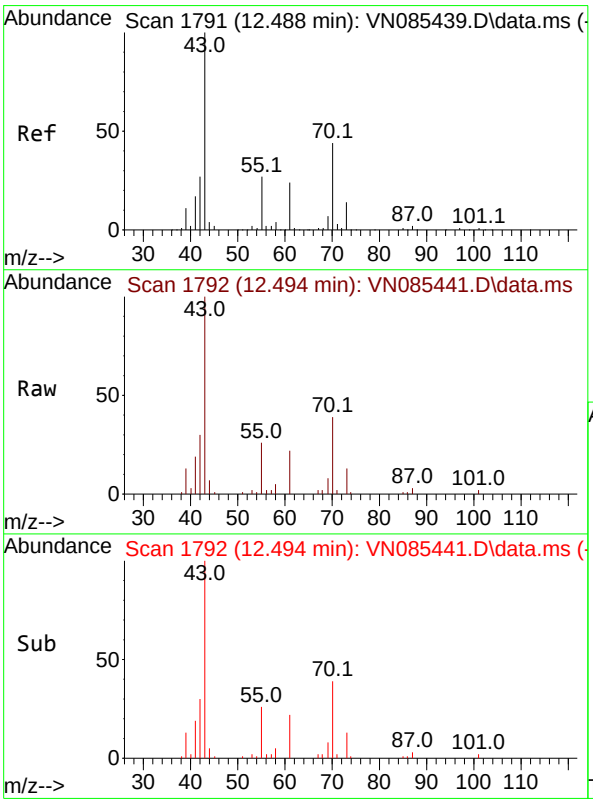
#73
Isopropylbenzene
Concen: 9.697 ug/l
RT: 12.694 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion:105 Resp: 87003

Ion	Ratio	Lower	Upper
105	100		
120	26.1	12.8	38.3

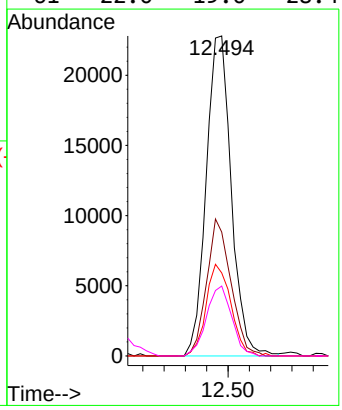


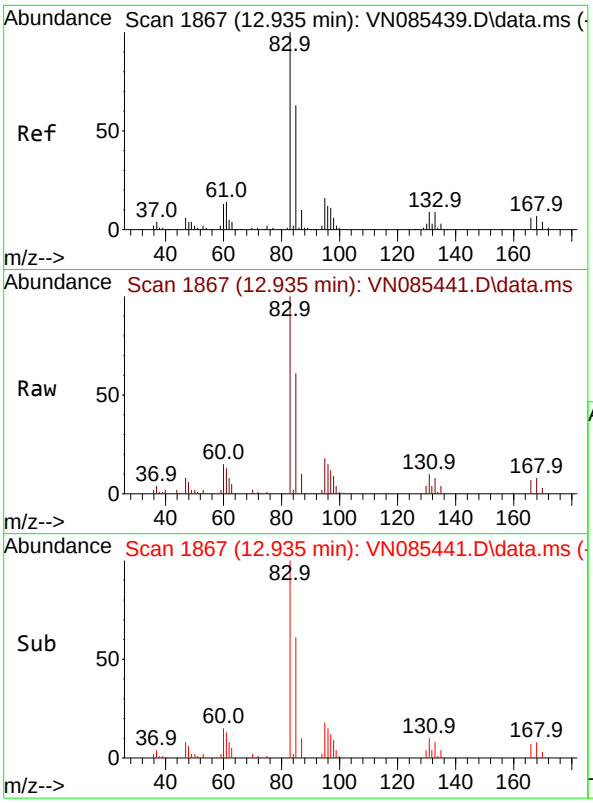


#74
N-amyl acetate
Concen: 9.260 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 43 Resp: 37343

Ion	Ratio	Lower	Upper
43	100		
70	41.4	34.0	51.0
55	28.5	21.4	32.2
61	22.0	19.0	28.4



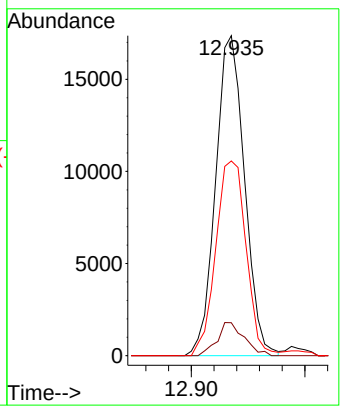


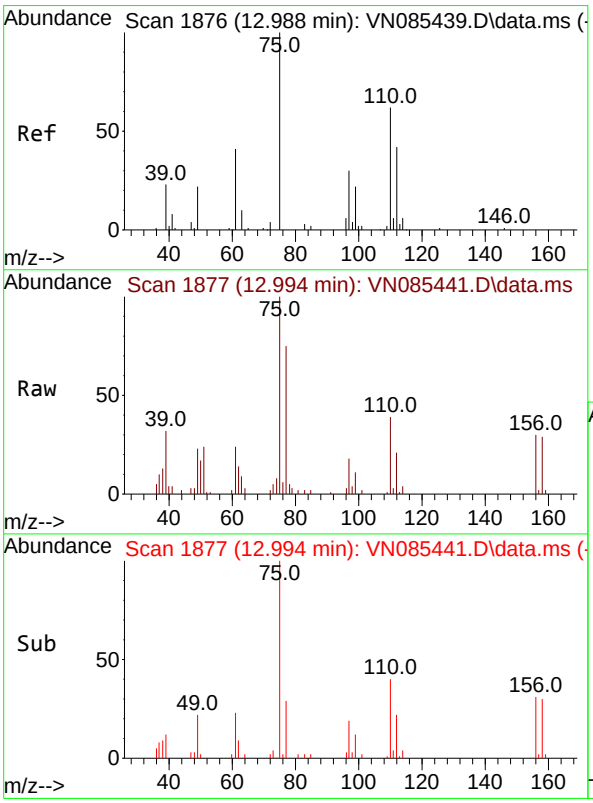
#75
1,1,2,2-Tetrachloroethane
Concen: 9.709 ug/l
RT: 12.935 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion: 83 Resp: 30770

Ion	Ratio	Lower	Upper
83	100		
131	9.6	4.8	14.4
85	63.6	32.2	96.6

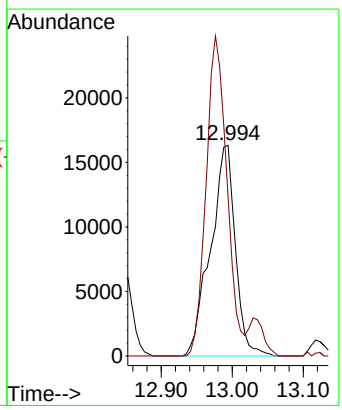


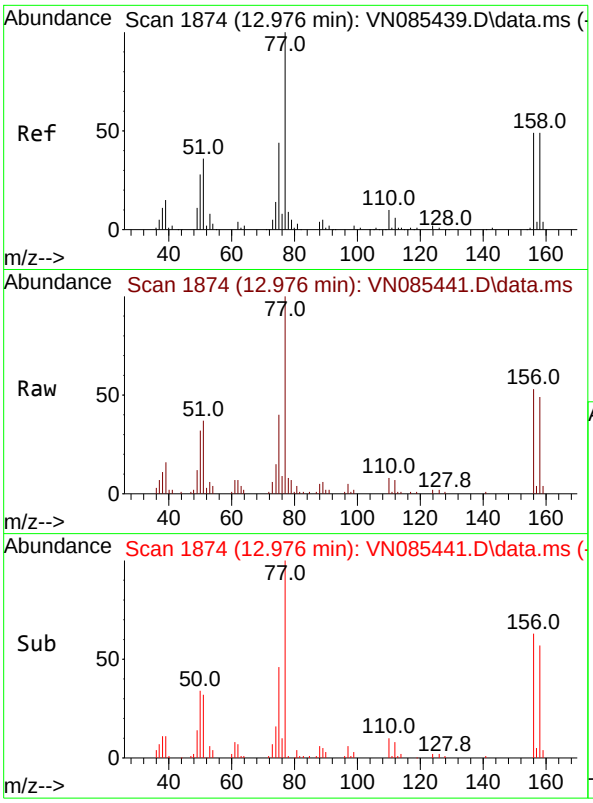


#76
1,2,3-Trichloropropane
Concen: 14.675 ug/l
RT: 12.994 min Scan# 1877
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 75 Resp: 39589

Ion	Ratio	Lower	Upper
75	100		
77	127.6	109.7	329.2



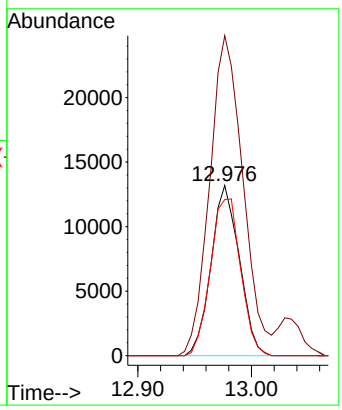


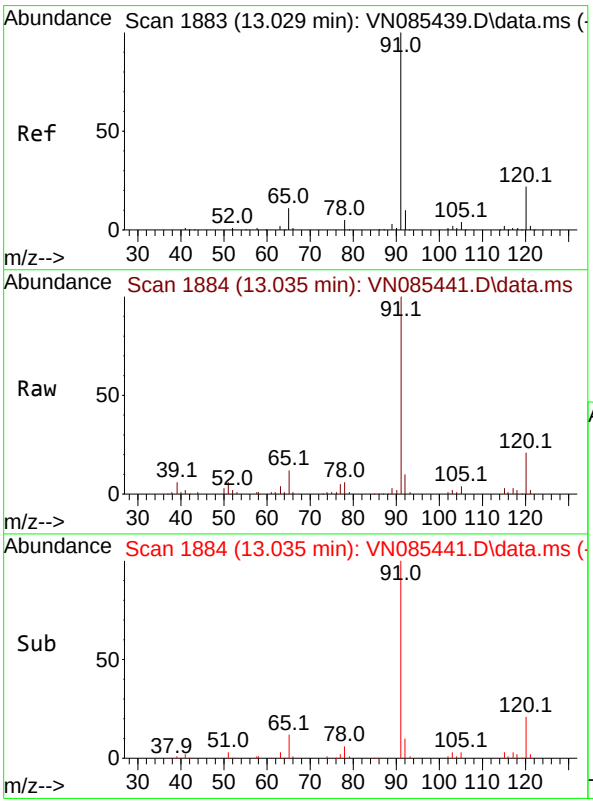
#77
Bromobenzene
Concen: 9.720 ug/l
RT: 12.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion:156 Resp: 22784

Ion	Ratio	Lower	Upper
156	100		
77	221.6	114.1	342.4
158	98.7	48.9	146.8

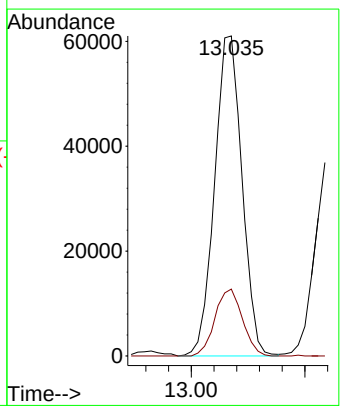


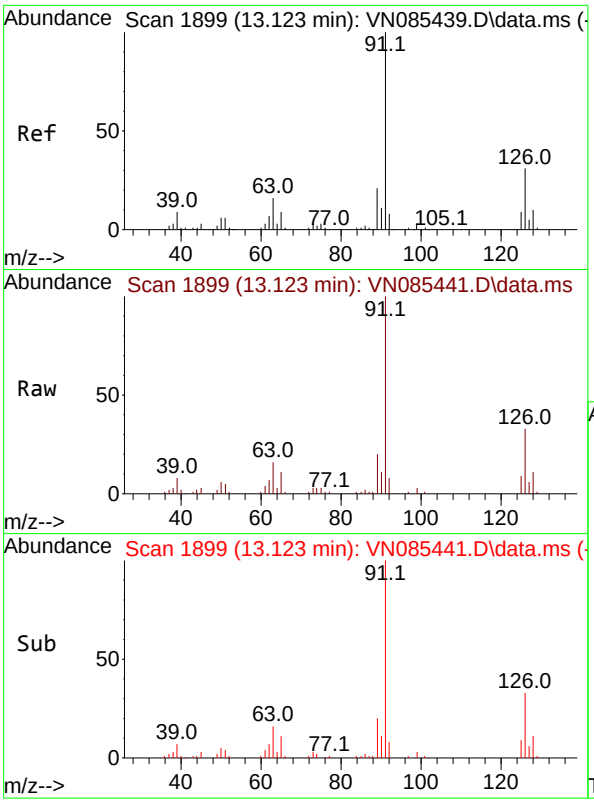


#78
n-propylbenzene
Concen: 9.628 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 91 Resp: 102262

Ion	Ratio	Lower	Upper
91	100		
120	20.9	10.9	32.6



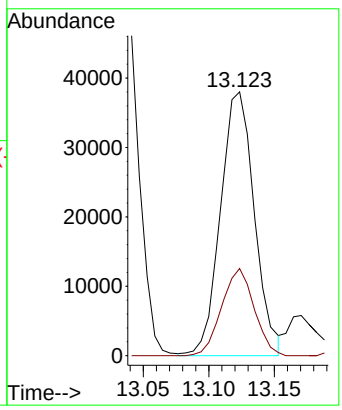


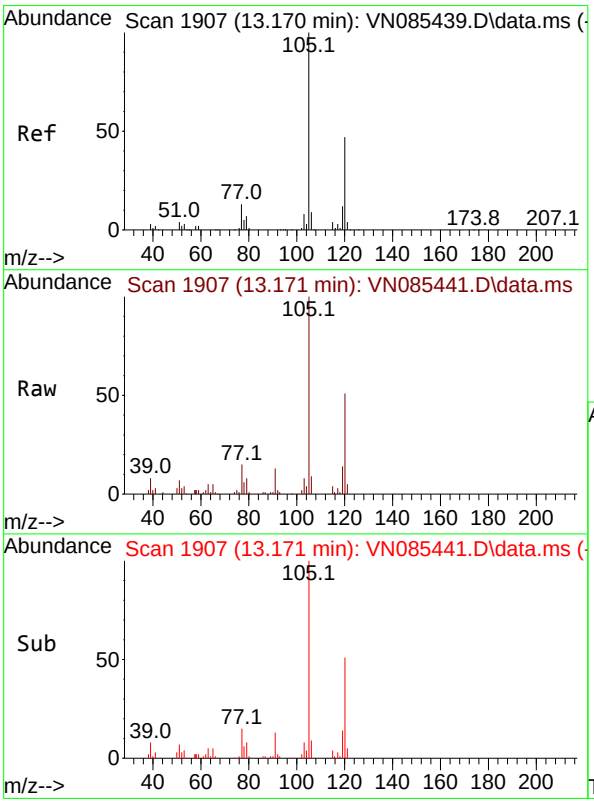
#79
2-Chlorotoluene
Concen: 9.943 ug/l
RT: 13.123 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion: 91 Resp: 68346

Ion	Ratio	Lower	Upper
91	100		
126	31.5	15.7	47.1

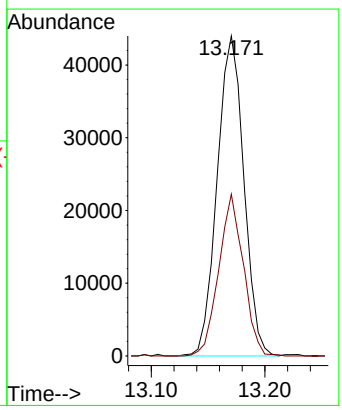


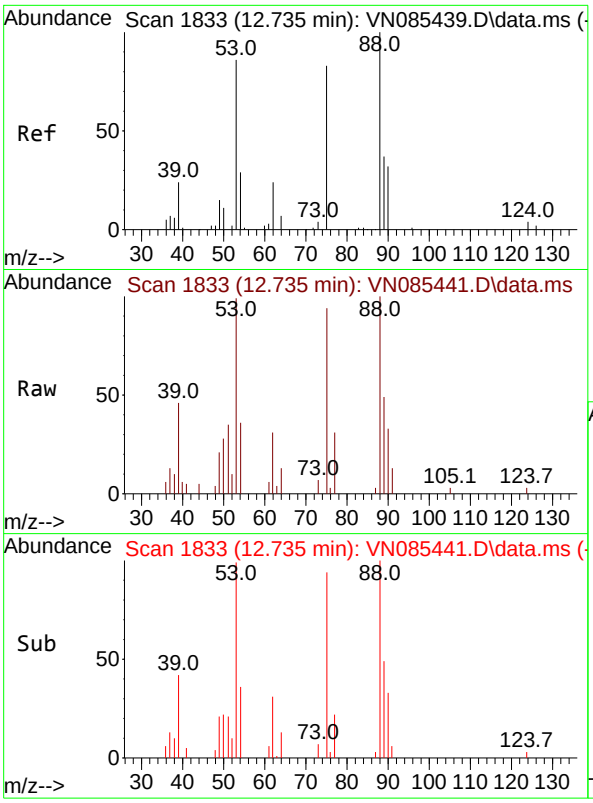


#80
1,3,5-Trimethylbenzene
Concen: 9.669 ug/l
RT: 13.171 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:105 Resp: 71656

Ion	Ratio	Lower	Upper
105	100		
120	46.8	23.9	71.7



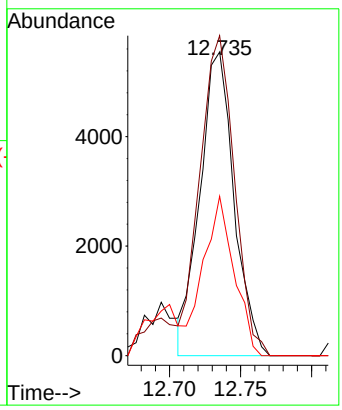


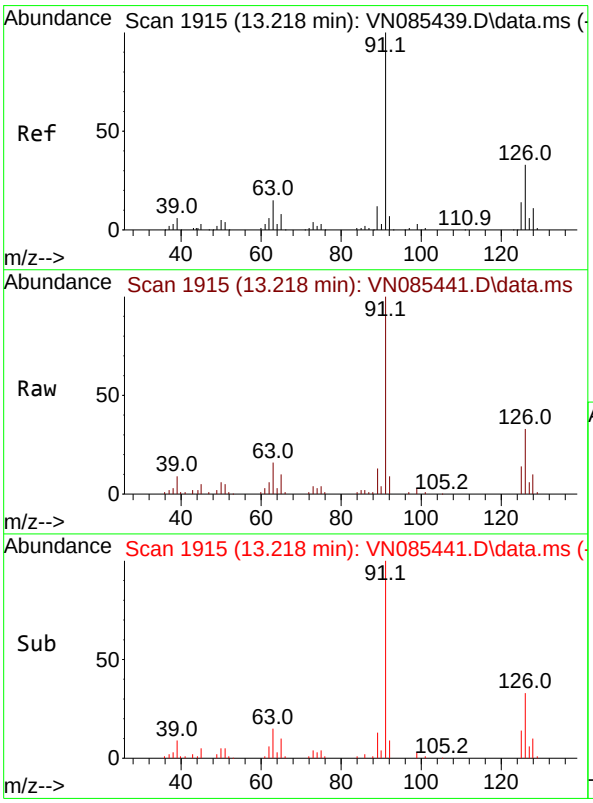
#81
trans-1,4-Dichloro-2-butene
Concen: 9.248 ug/l
RT: 12.735 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion: 75 Resp: 9236

Ion	Ratio	Lower	Upper
75	100		
53	119.6	95.6	143.4
89	46.6	37.0	55.6

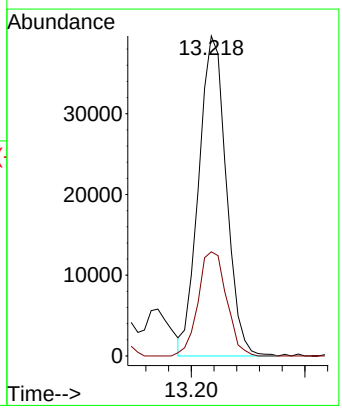


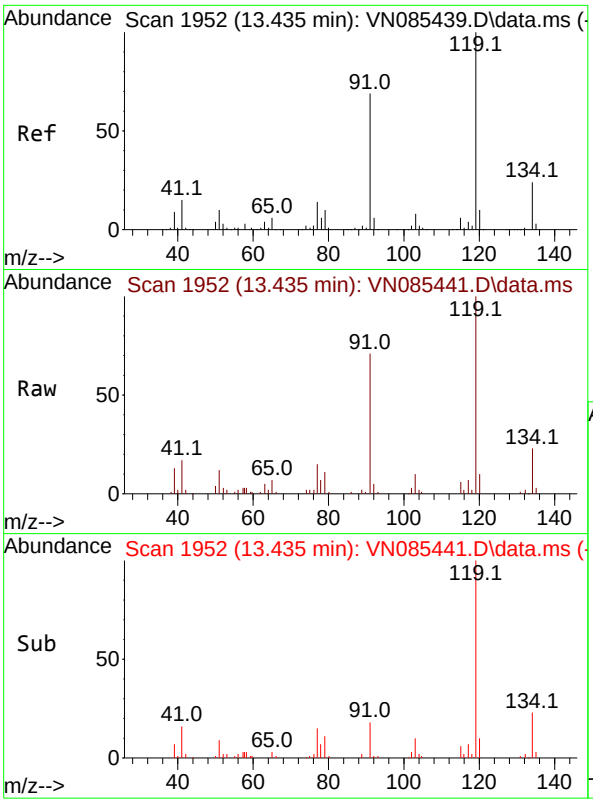


#82
4-Chlorotoluene
Concen: 9.756 ug/l
RT: 13.218 min Scan# 1915
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 91 Resp: 66773

Ion	Ratio	Lower	Upper
91	100		
126	33.6	15.9	47.7



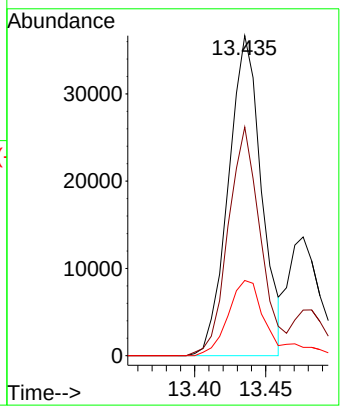


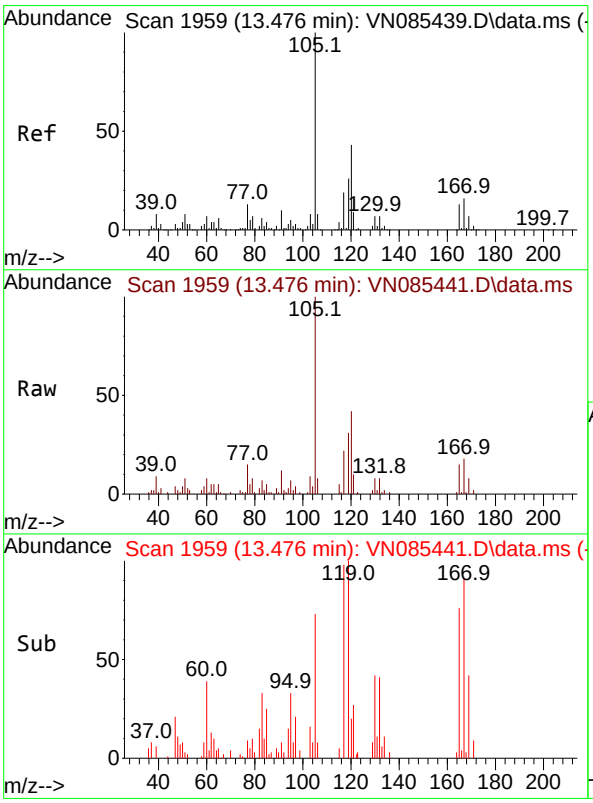
#83
tert-Butylbenzene
Concen: 9.553 ug/l
RT: 13.435 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion:119 Resp: 59455

Ion	Ratio	Lower	Upper
119	100		
91	70.0	35.1	105.3
134	27.8	12.0	36.1

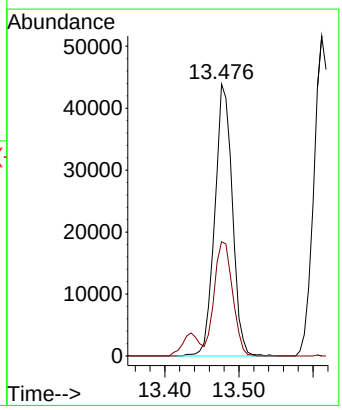


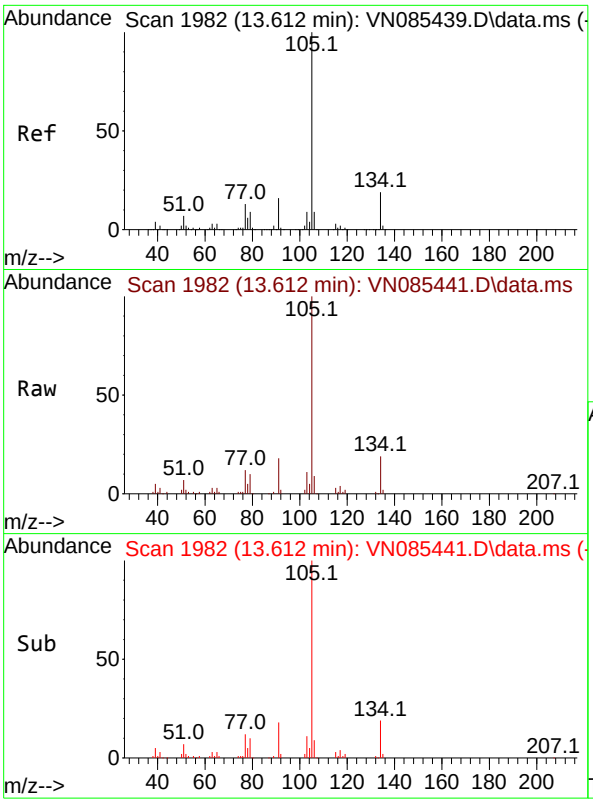


#84
1,2,4-Trimethylbenzene
Concen: 9.754 ug/l
RT: 13.476 min Scan# 1959
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:105 Resp: 72046

Ion	Ratio	Lower	Upper
105	100		
120	43.8	21.6	65.0



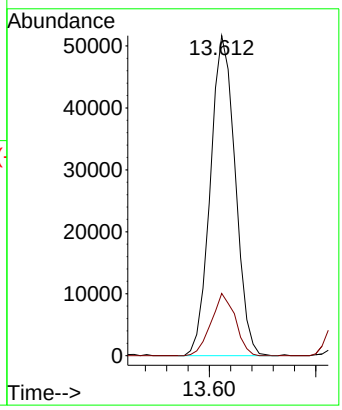


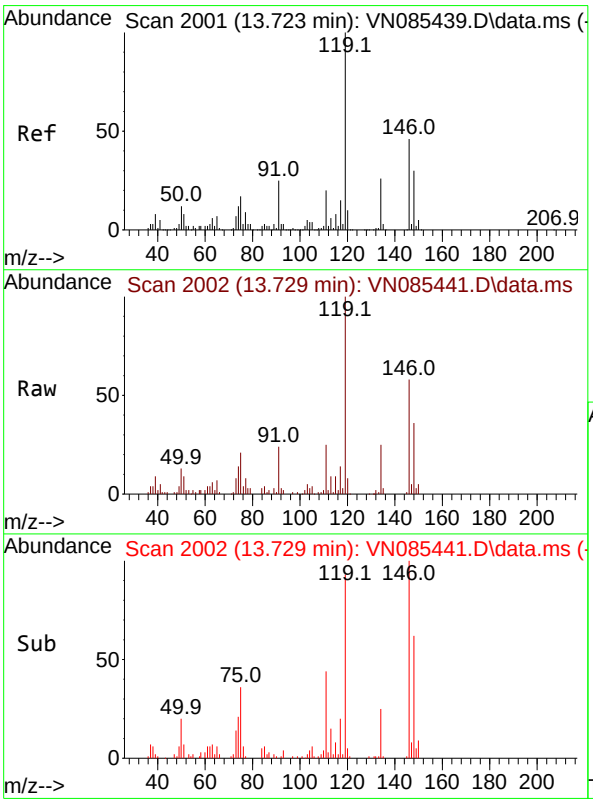
#85
sec-Butylbenzene
Concen: 9.699 ug/l
RT: 13.612 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion:105 Resp: 83662

Ion	Ratio	Lower	Upper
105	100		
134	18.9	9.7	28.9

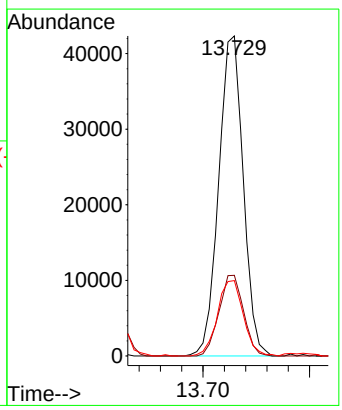


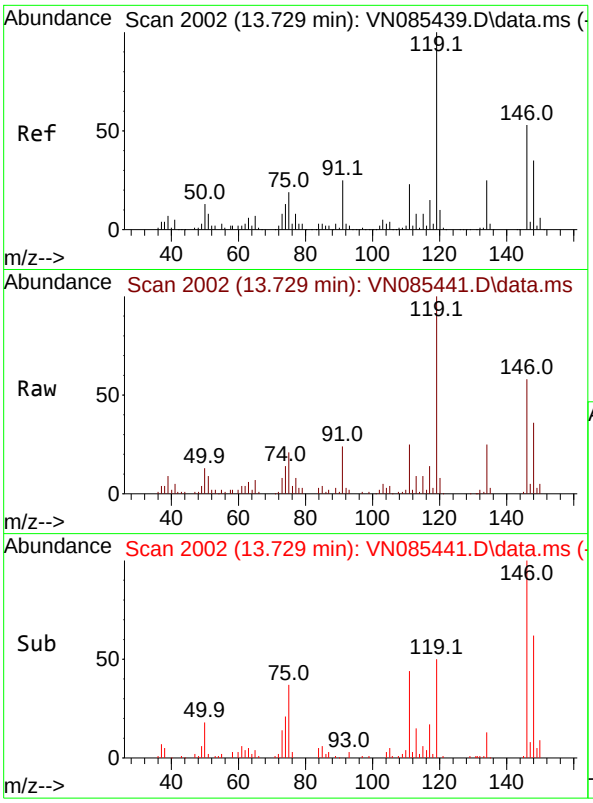


#86
p-Isopropyltoluene
Concen: 9.674 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:119 Resp: 67556

Ion	Ratio	Lower	Upper
119	100		
134	25.2	12.7	38.0
91	25.0	12.7	38.1



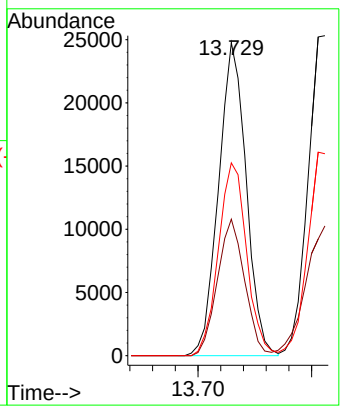


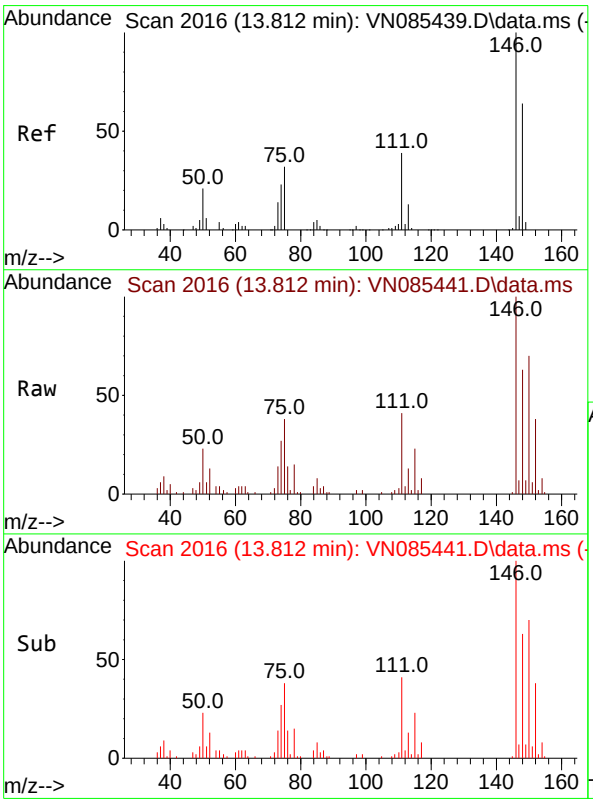
#87
1,3-Dichlorobenzene
Concen: 9.693 ug/l
RT: 13.729 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion:146 Resp: 41843

Ion	Ratio	Lower	Upper
146	100		
111	43.1	21.4	64.3
148	63.0	32.3	96.9

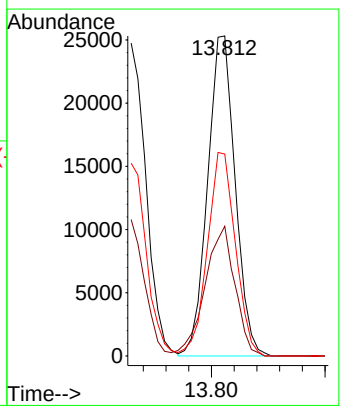


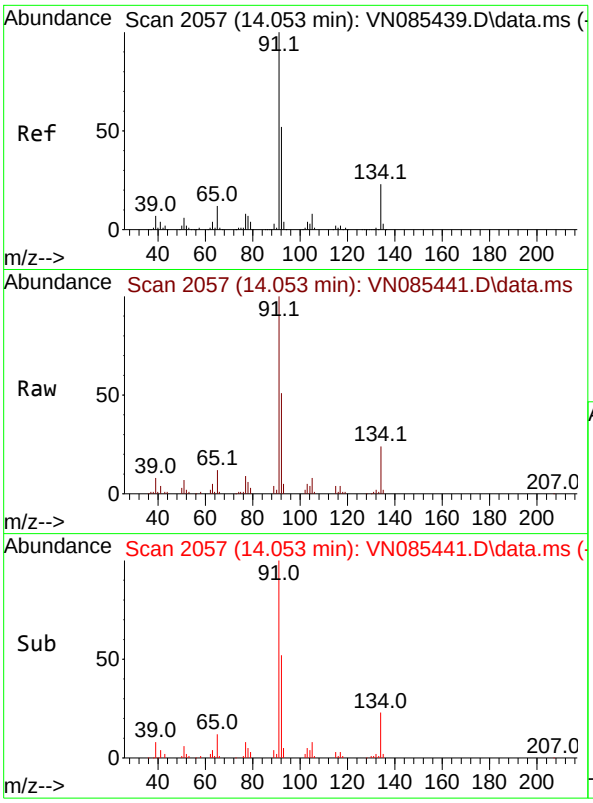


#88
1,4-Dichlorobenzene
Concen: 9.549 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:146 Resp: 42728

Ion	Ratio	Lower	Upper
146	100		
111	44.0	21.3	63.7
148	64.6	32.4	97.0



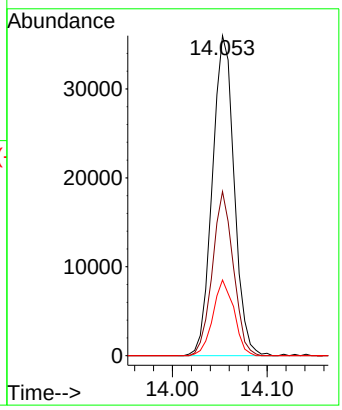


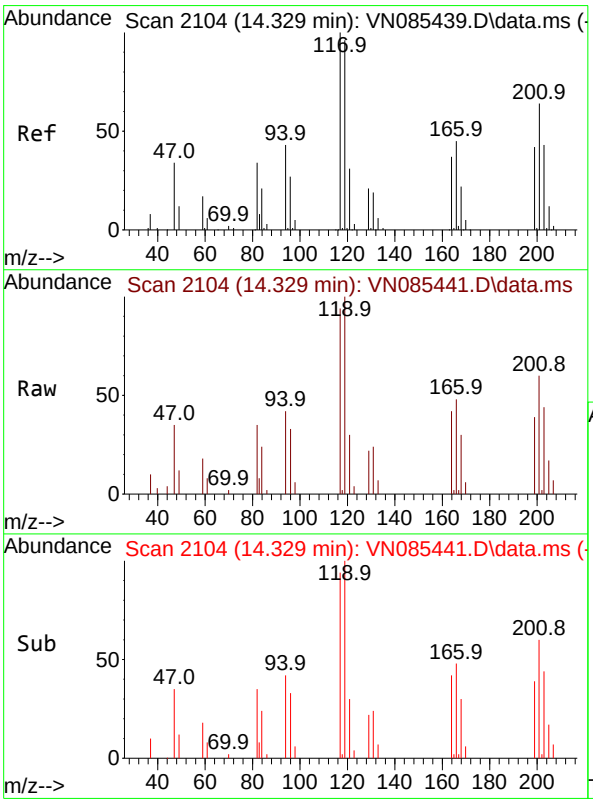
#89
n-Butylbenzene
Concen: 9.314 ug/l
RT: 14.053 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion: 91 Resp: 57632

Ion	Ratio	Lower	Upper
91	100		
92	49.2	25.8	77.3
134	22.8	11.7	35.1

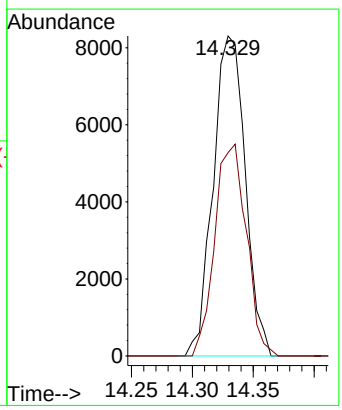


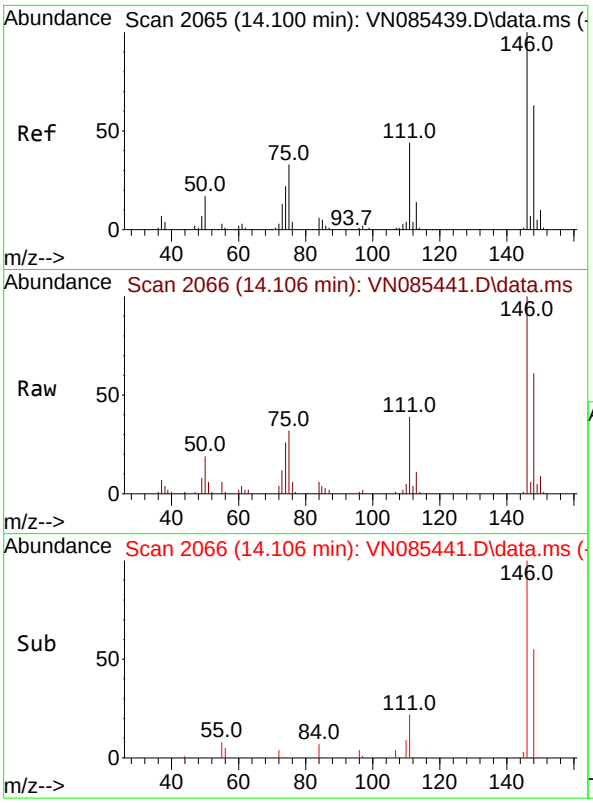


#90
Hexachloroethane
Concen: 9.294 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:117 Resp: 15261

Ion	Ratio	Lower	Upper
117	100		
201	65.0	33.7	101.0



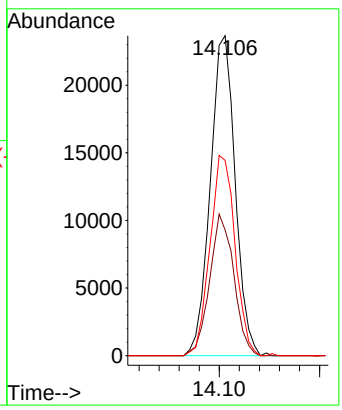


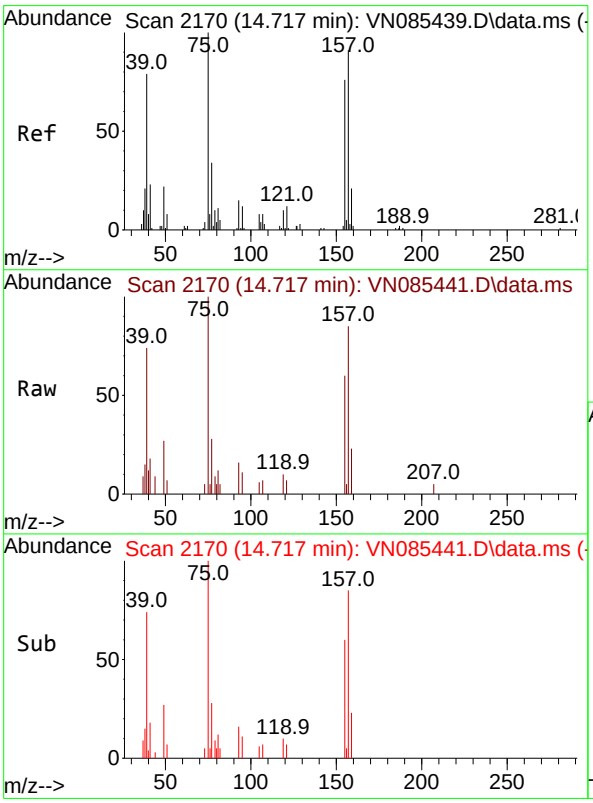
#91
1,2-Dichlorobenzene
Concen: 9.458 ug/l
RT: 14.106 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion:146 Resp: 40726

Ion	Ratio	Lower	Upper
146	100		
111	42.9	21.7	65.1
148	62.9	31.4	94.2

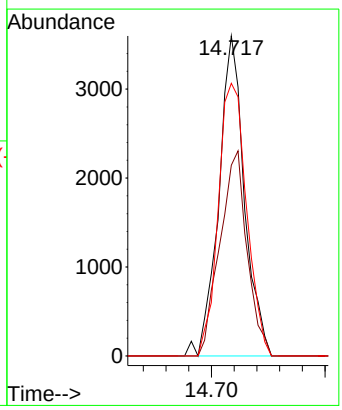


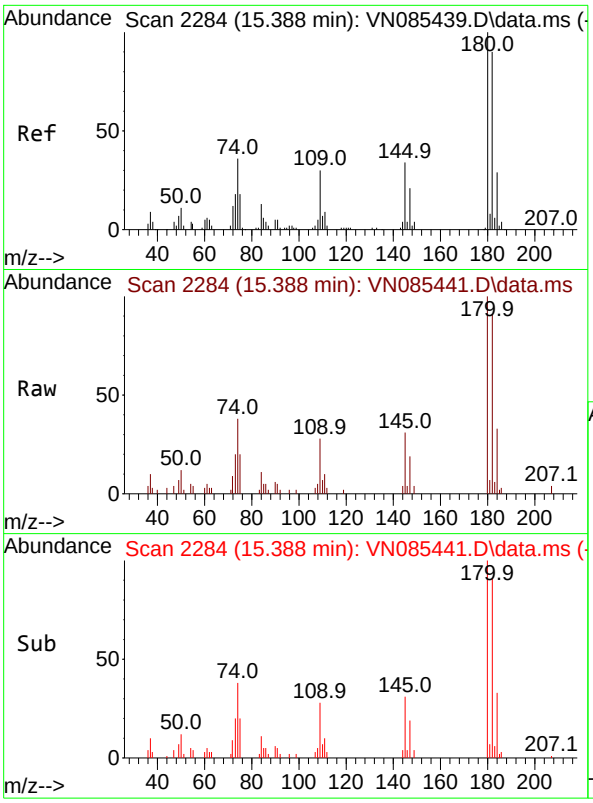


#92
1,2-Dibromo-3-Chloropropane
Concen: 9.744 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 75 Resp: 5639

Ion	Ratio	Lower	Upper
75	100		
155	67.9	36.4	109.2
157	94.1	45.4	136.1



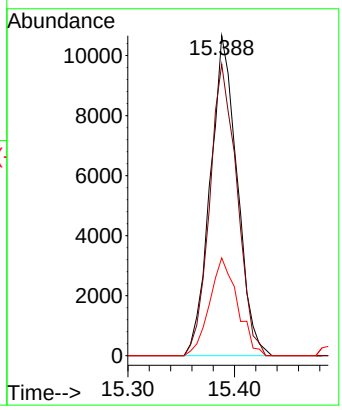


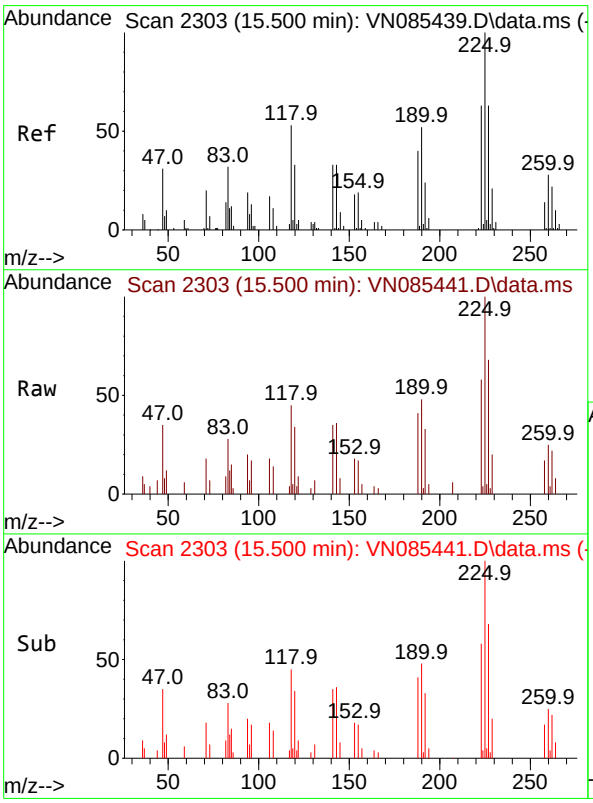
#93
1,2,4-Trichlorobenzene
Concen: 9.354 ug/l
RT: 15.388 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion:180 Resp: 18720

Ion	Ratio	Lower	Upper
180	100		
182	92.4	46.8	140.3
145	31.7	16.0	48.0

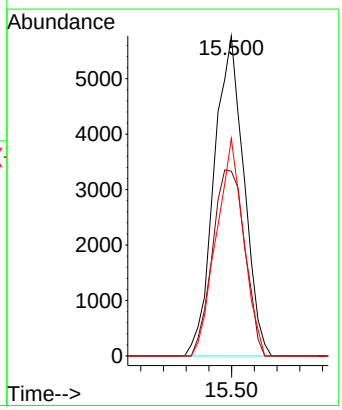


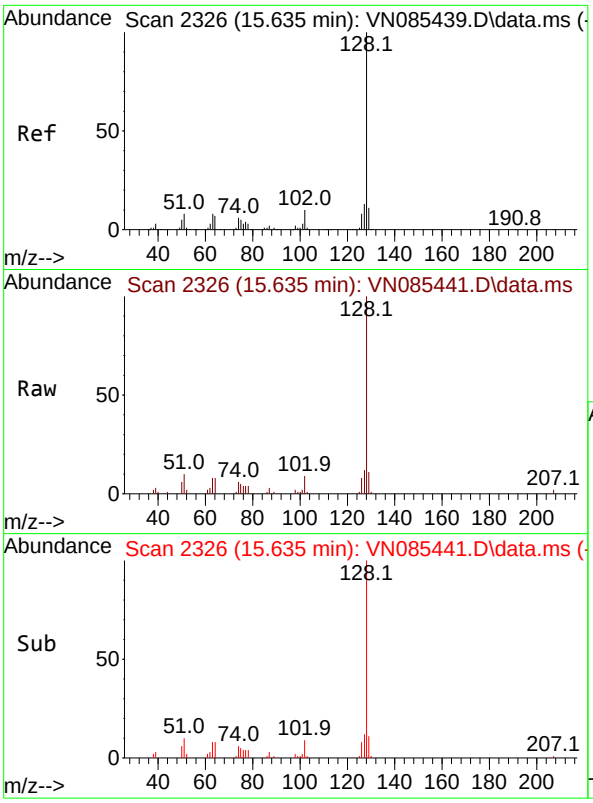


#94
Hexachlorobutadiene
Concen: 9.874 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:225 Resp: 10491

Ion	Ratio	Lower	Upper
225	100		
223	63.3	30.7	92.1
227	62.1	30.9	92.5



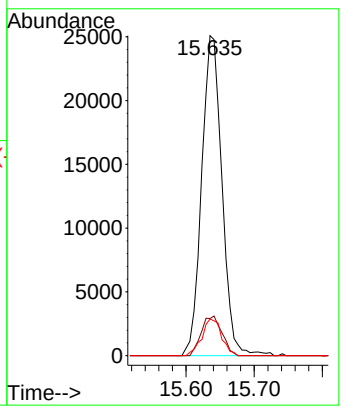


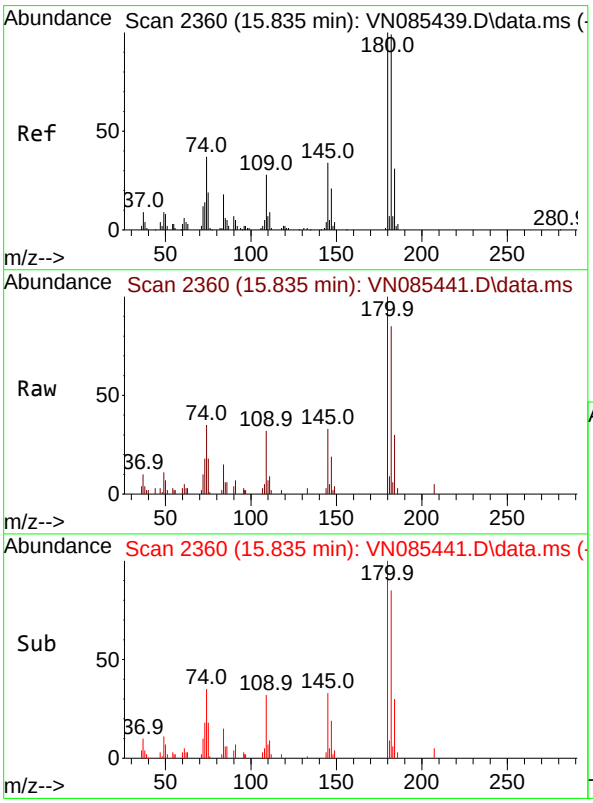
#95
Naphthalene
Concen: 8.717 ug/l
RT: 15.635 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion:128 Resp: 52054

Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.6	16.0
129	11.2	8.8	13.2

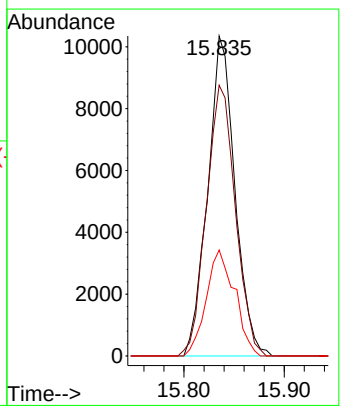




#96
1,2,3-Trichlorobenzene
Concen: 9.605 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:180 Resp: 19450

Ion	Ratio	Lower	Upper
180	100		
182	90.3	47.4	142.2
145	34.7	16.9	50.7



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085442.D
Acq On : 14 Jan 2025 16:31
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Quant Time: Jan 15 01:45:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	8.218	168	186556	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	9.100	114	324413	50.000	ug/l		0.00
63) Chlorobenzene-d5	11.865	117	282203	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	126086	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	8.577	65	17046	5.660	ug/l		0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	11.320%#			
35) Dibromofluoromethane	8.165	113	12102	5.377	ug/l		0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	10.760%#			
50) Toluene-d8	10.565	98	41328	5.168	ug/l		0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	10.340%#			
62) 4-Bromofluorobenzene	12.847	95	13520	4.943	ug/l		0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	9.880%#			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	2.124	85	13199	5.225	ug/l		97
3) Chloromethane	2.359	50	14526	5.311	ug/l		96
4) Vinyl Chloride	2.512	62	14564	5.298	ug/l		98
5) Bromomethane	2.953	94	9788	5.895	ug/l		98
6) Chloroethane	3.124	64	9430	5.411	ug/l		99
7) Trichlorofluoromethane	3.501	101	20098	5.039	ug/l		92
8) Diethyl Ether	3.959	74	6652	4.828	ug/l		100
9) 1,1,2-Trichlorotrifluo...	4.365	101	11917	5.305	ug/l		97
10) Methyl Iodide	4.583	142	12331	4.793	ug/l		99
11) Tert butyl alcohol	5.518	59	9075	26.318	ug/l	#	94
12) 1,1-Dichloroethene	4.342	96	10429	5.209	ug/l		96
13) Acrolein	4.171	56	9430	20.033	ug/l		97
14) Allyl chloride	5.030	41	16741	5.153	ug/l		97
15) Acrylonitrile	5.718	53	27869	25.445	ug/l		97
16) Acetone	4.430	43	25122	25.819	ug/l		97
17) Carbon Disulfide	4.706	76	32068	5.202	ug/l		96
18) Methyl Acetate	5.024	43	15106	5.106	ug/l		97
19) Methyl tert-butyl Ether	5.800	73	31439	4.836	ug/l		94
20) Methylene Chloride	5.271	84	12981	5.389	ug/l	#	83
21) trans-1,2-Dichloroethene	5.783	96	10614	4.960	ug/l	#	78
22) Diisopropyl ether	6.665	45	35785	4.962	ug/l	#	96
23) Vinyl Acetate	6.600	43	139425	27.533	ug/l		96
24) 1,1-Dichloroethane	6.565	63	22865	5.200	ug/l		99
25) 2-Butanone	7.483	43	36127	25.231	ug/l		99
26) 2,2-Dichloropropane	7.488	77	18398	5.175	ug/l		100
27) cis-1,2-Dichloroethene	7.488	96	12477	4.951	ug/l		99
28) Bromochloromethane	7.806	49	11096	5.424	ug/l		99
29) Tetrahydrofuran	7.841	42	21983	24.215	ug/l		99
30) Chloroform	7.959	83	23384	5.146	ug/l		98
31) Cyclohexane	8.247	56	22343	5.846	ug/l	#	92
32) 1,1,1-Trichloroethane	8.159	97	21416	5.372	ug/l		91
36) 1,1-Dichloropropene	8.371	75	15886	5.029	ug/l		96
37) Ethyl Acetate	7.553	43	15336	4.810	ug/l		100
38) Carbon Tetrachloride	8.359	117	18317	5.065	ug/l		96
39) Methylcyclohexane	9.600	83	14175	4.776	ug/l		98
40) Benzene	8.600	78	47833	5.040	ug/l		99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085442.D
Acq On : 14 Jan 2025 16:31
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Quant Time: Jan 15 01:45:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	7.777	41	7380	4.449 ug/l	96
42) 1,2-Dichloroethane	8.671	62	18628	5.211 ug/l	98
43) Isopropyl Acetate	8.688	43	24792	4.853 ug/l	98
44) Trichloroethene	9.347	130	11133	5.039 ug/l	86
45) 1,2-Dichloropropane	9.618	63	12591	5.194 ug/l	92
46) Dibromomethane	9.700	93	8230	4.705 ug/l	91
47) Bromodichloromethane	9.888	83	18456	5.179 ug/l #	96
48) Methyl methacrylate	9.677	41	10574	4.599 ug/l	95
49) 1,4-Dioxane	9.694	88	3619	93.477 ug/l	97
51) 4-Methyl-2-Pentanone	10.441	43	71889	24.250 ug/l	98
52) Toluene	10.629	92	27098	4.928 ug/l	98
53) t-1,3-Dichloropropene	10.829	75	17099	5.077 ug/l	95
54) cis-1,3-Dichloropropene	10.306	75	17440	4.848 ug/l	97
55) 1,1,2-Trichloroethane	11.012	97	11311	5.197 ug/l	96
56) Ethyl methacrylate	10.871	69	14094	5.627 ug/l	94
57) 1,3-Dichloropropane	11.159	76	18945	5.006 ug/l	100
58) 2-Chloroethyl Vinyl ether	10.159	63	33210	24.047 ug/l	97
59) 2-Hexanone	11.194	43	49021	23.501 ug/l	94
60) Dibromochloromethane	11.353	129	13635	5.190 ug/l	96
61) 1,2-Dibromoethane	11.471	107	10419	4.810 ug/l	98
64) Tetrachloroethene	11.100	164	9756	5.071 ug/l	91
65) Chlorobenzene	11.888	112	31312	5.065 ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.959	131	11620	5.121 ug/l	98
67) Ethyl Benzene	11.965	91	48216	4.789 ug/l	98
68) m/p-Xylenes	12.065	106	34771	9.344 ug/l	99
69) o-Xylene	12.394	106	16419	4.617 ug/l	98
70) Styrene	12.412	104	26218	4.454 ug/l	99
71) Bromoform	12.576	173	8017	4.938 ug/l #	99
73) Isopropylbenzene	12.694	105	39811	4.678 ug/l	99
74) N-amyl acetate	12.488	43	17577	4.595 ug/l	95
75) 1,1,2,2-Tetrachloroethane	12.935	83	15483	5.151 ug/l	97
76) 1,2,3-Trichloropropane	12.994	75	18624	7.279 ug/l	48
77) Bromobenzene	12.982	156	11091	4.989 ug/l	99
78) n-propylbenzene	13.035	91	45450	4.512 ug/l	99
79) 2-Chlorotoluene	13.123	91	31932	4.898 ug/l	98
80) 1,3,5-Trimethylbenzene	13.170	105	31891	4.537 ug/l	100
81) trans-1,4-Dichloro-2-b...	12.729	75	4229	4.465 ug/l	90
82) 4-Chlorotoluene	13.218	91	31976	4.926 ug/l	100
83) tert-Butylbenzene	13.435	119	27597	4.675 ug/l	99
84) 1,2,4-Trimethylbenzene	13.482	105	32054	4.575 ug/l	98
85) sec-Butylbenzene	13.612	105	38148	4.663 ug/l	98
86) p-Isopropyltoluene	13.723	119	29856	4.584 ug/l	98
87) 1,3-Dichlorobenzene	13.729	146	20876	5.099 ug/l	98
88) 1,4-Dichlorobenzene	13.812	146	21982	5.179 ug/l	97
89) n-Butylbenzene	14.053	91	27437	4.675 ug/l	96
90) Hexachloroethane	14.329	117	7767	4.987 ug/l	100
91) 1,2-Dichlorobenzene	14.106	146	20177	4.940 ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.729	75	2872	5.232 ug/l	90
93) 1,2,4-Trichlorobenzene	15.388	180	9037	4.761 ug/l	94
94) Hexachlorobutadiene	15.500	225	5563	5.520 ug/l	98
95) Naphthalene	15.641	128	25047	4.422 ug/l	96
96) 1,2,3-Trichlorobenzene	15.841	180	8737	4.549 ug/l	99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085442.D
Acq On : 14 Jan 2025 16:31
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Quant Time: Jan 15 01:45:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration

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

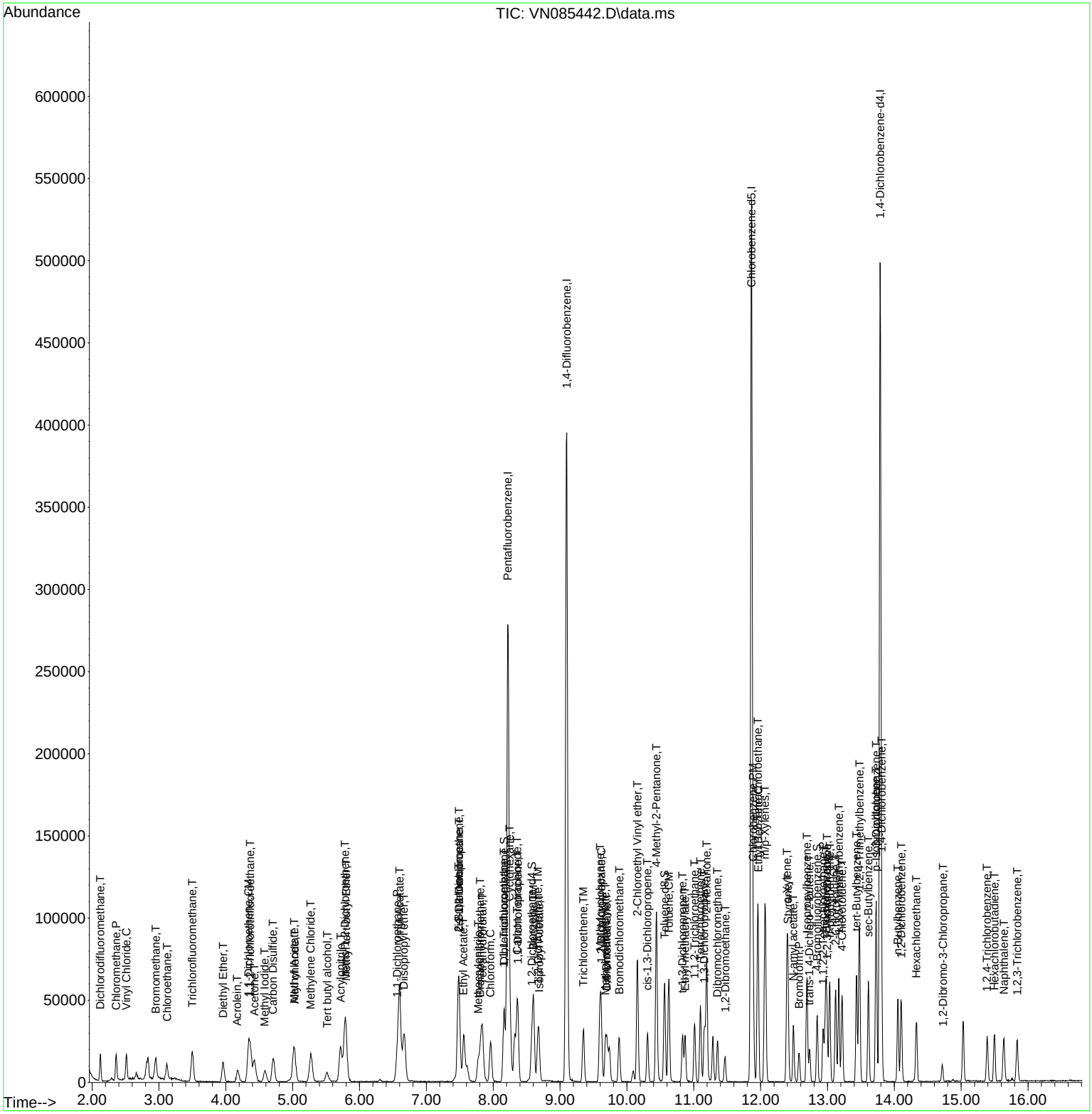
(#) = qualifier out of range (m) = manual integration (+) = signals summed

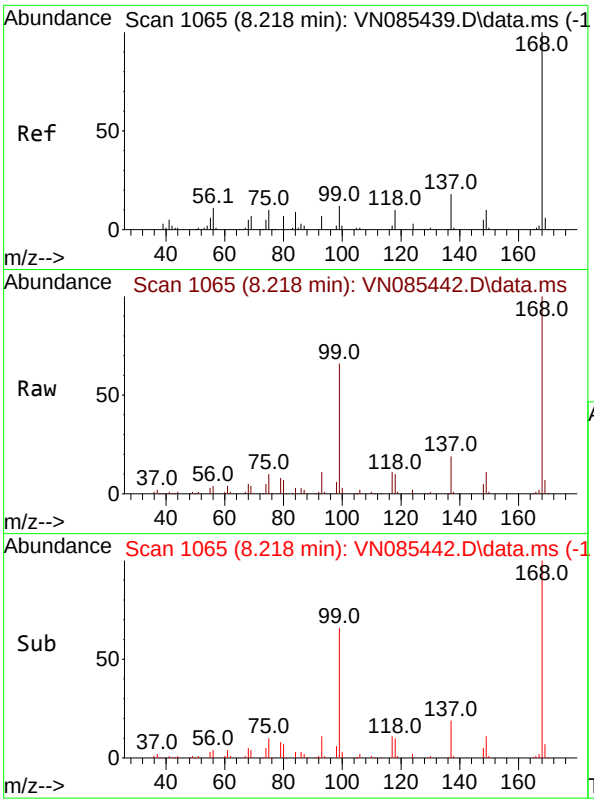
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085442.D
Acq On : 14 Jan 2025 16:31
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Quant Time: Jan 15 01:45:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration



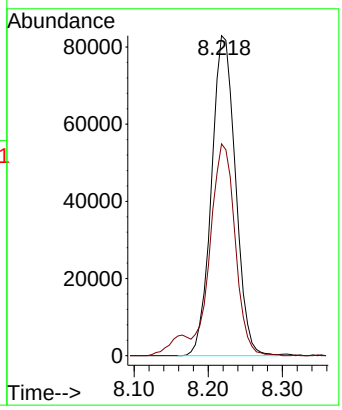


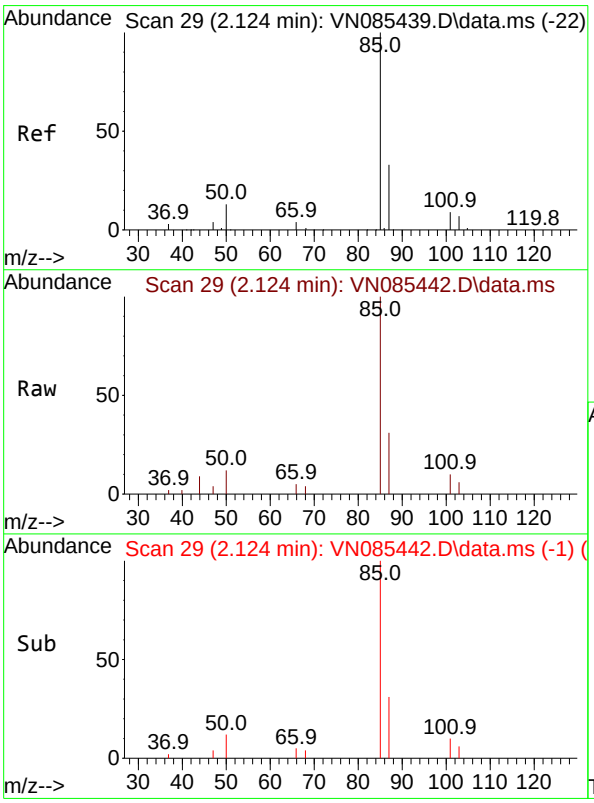
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion:168 Resp: 186556

Ion	Ratio	Lower	Upper
168	100		
99	65.9	53.6	80.4

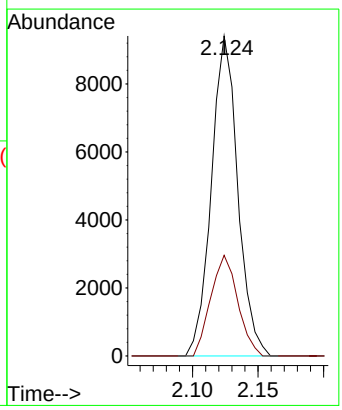


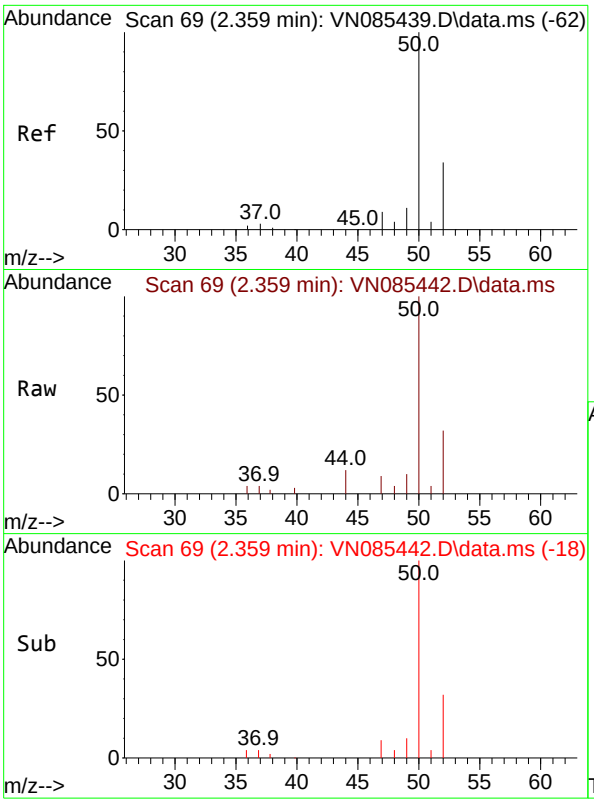


#2
Dichlorodifluoromethane
Concen: 5.225 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 85 Resp: 13199

Ion	Ratio	Lower	Upper
85	100		
87	31.5	16.7	50.1



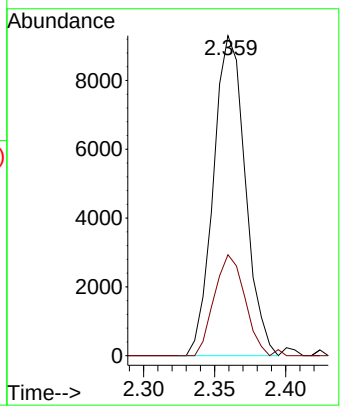


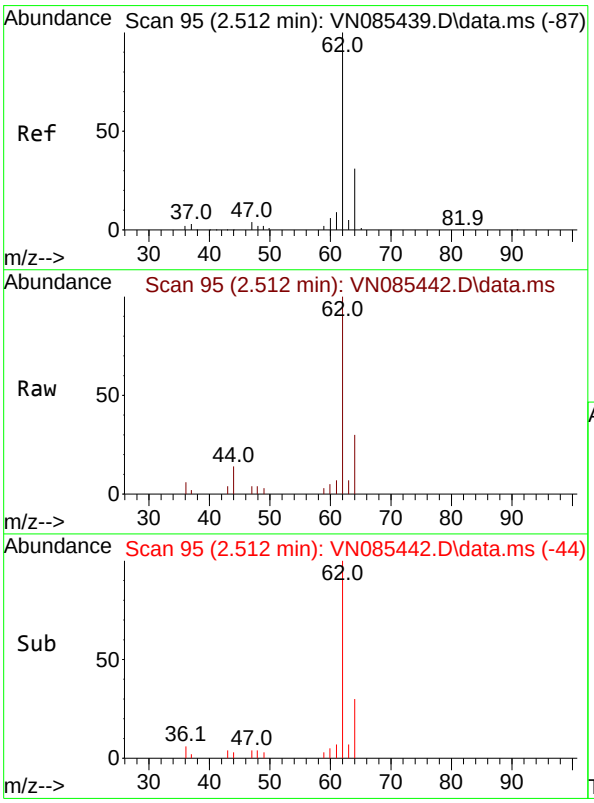
#3
Chloromethane
Concen: 5.311 ug/l
RT: 2.359 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 50 Resp: 14526

Ion	Ratio	Lower	Upper
50	100		
52	31.6	27.0	40.6

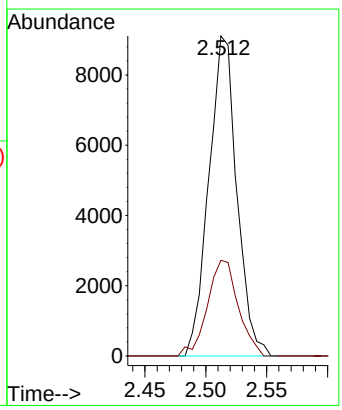


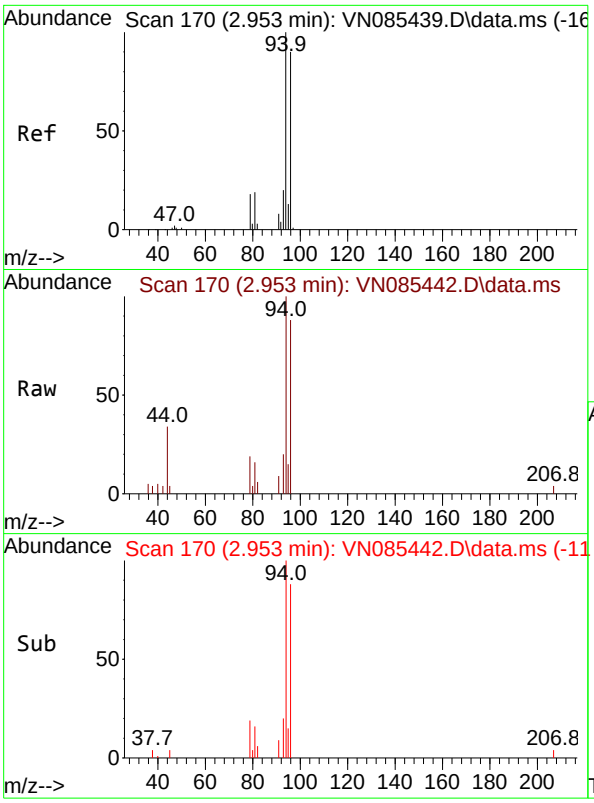


#4
Vinyl Chloride
Concen: 5.298 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 62 Resp: 14564

Ion	Ratio	Lower	Upper
62	100		
64	29.9	24.8	37.2



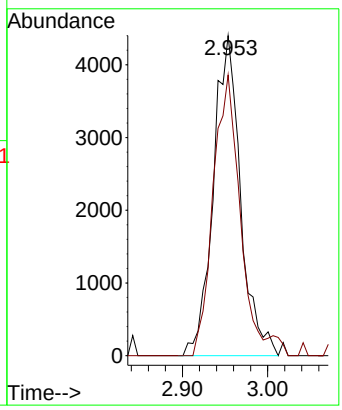


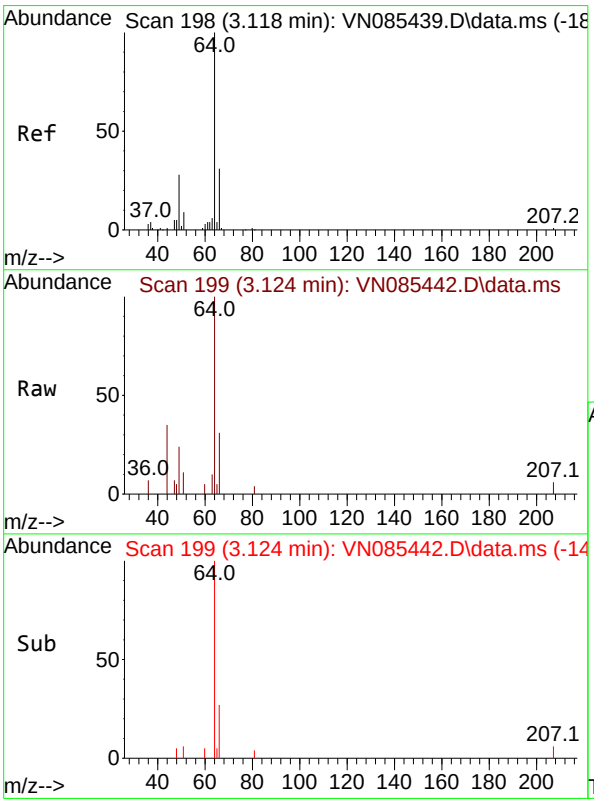
#5
Bromomethane
Concen: 5.895 ug/l
RT: 2.953 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 94 Resp: 9788

Ion	Ratio	Lower	Upper
94	100		
96	87.7	71.8	107.6

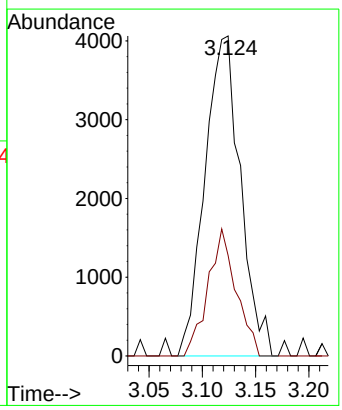


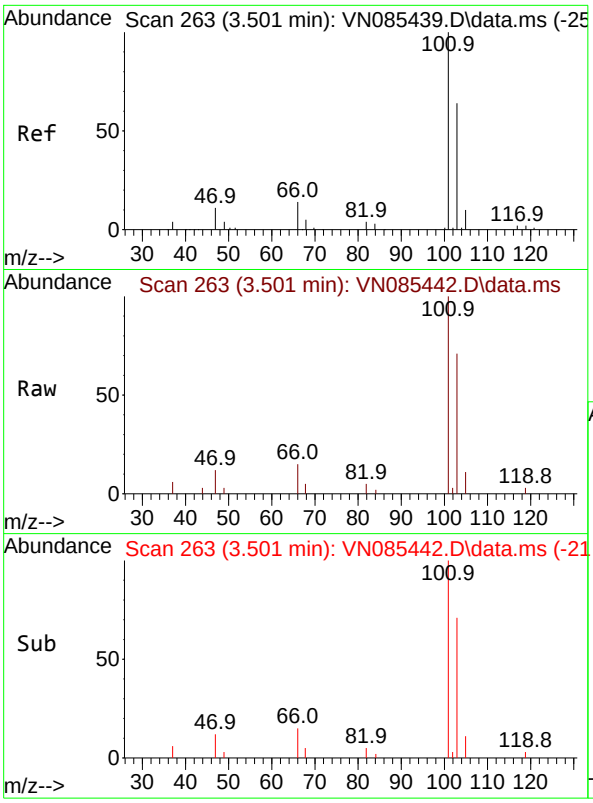


#6
Chloroethane
Concen: 5.411 ug/l
RT: 3.124 min Scan# 199
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 64 Resp: 9430

Ion	Ratio	Lower	Upper
64	100		
66	31.4	24.6	36.8



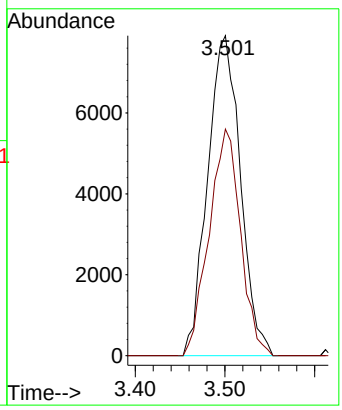


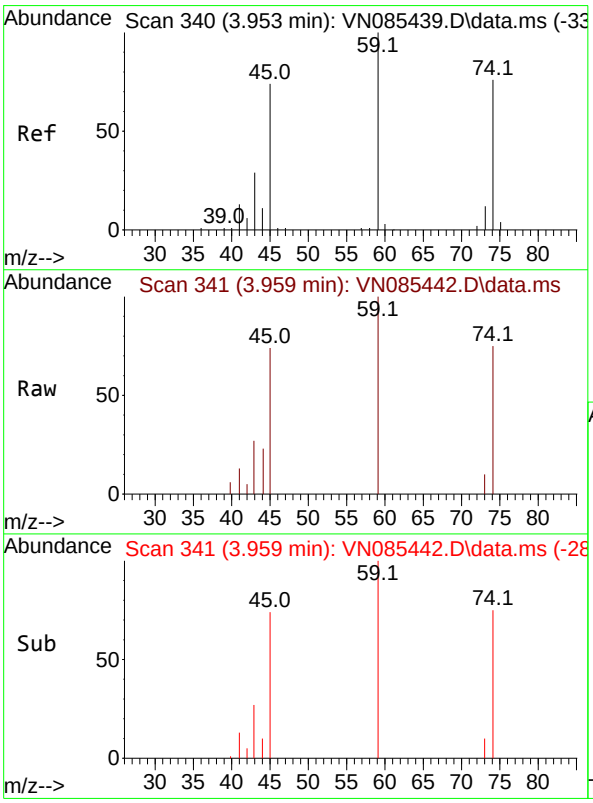
#7
Trichlorofluoromethane
Concen: 5.039 ug/l
RT: 3.501 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion:101 Resp: 20098

Ion	Ratio	Lower	Upper
101	100		
103	70.8	51.4	77.2

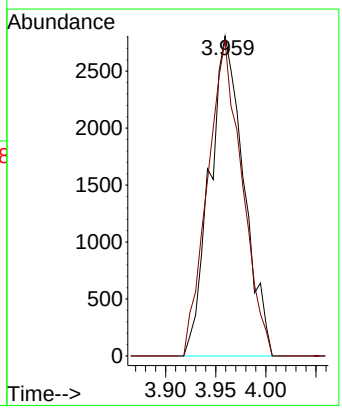


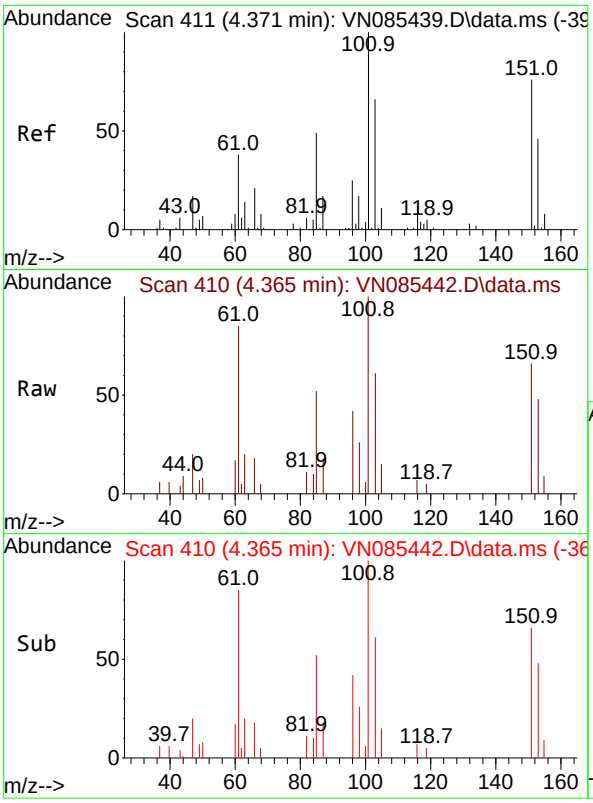


#8
Diethyl Ether
Concen: 4.828 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 74 Resp: 6652

Ion	Ratio	Lower	Upper
74	100		
45	99.5	49.7	149.1



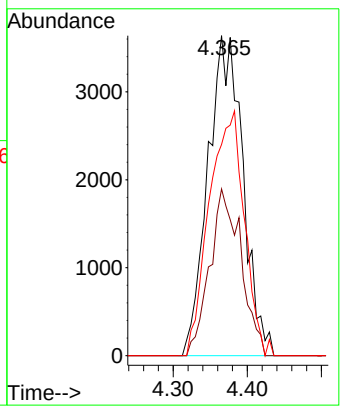


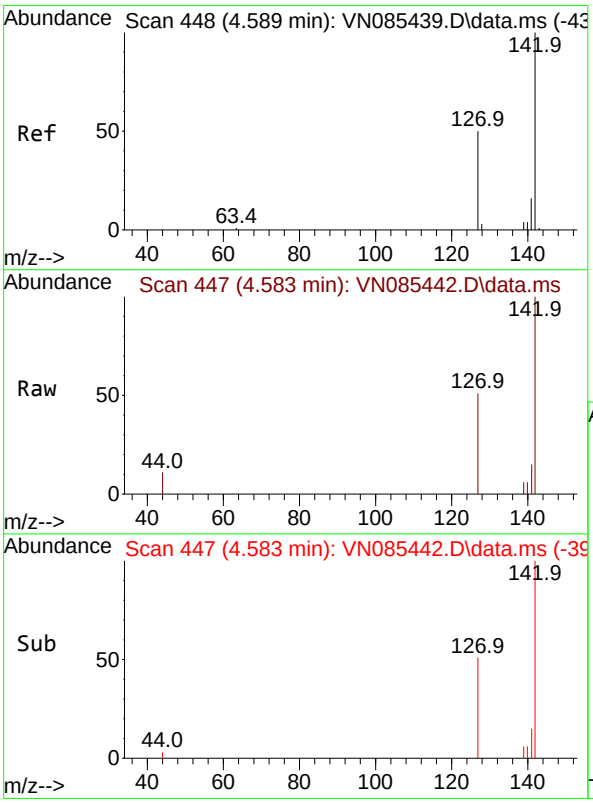
#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.305 ug/l
RT: 4.365 min Scan# 41
Delta R.T. -0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion:101 Resp: 11917

Ion	Ratio	Lower	Upper
101	100		
85	46.5	37.8	56.8
151	76.7	58.8	88.2

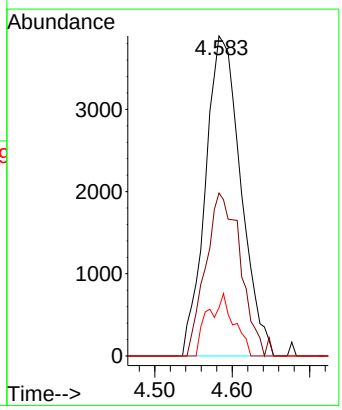


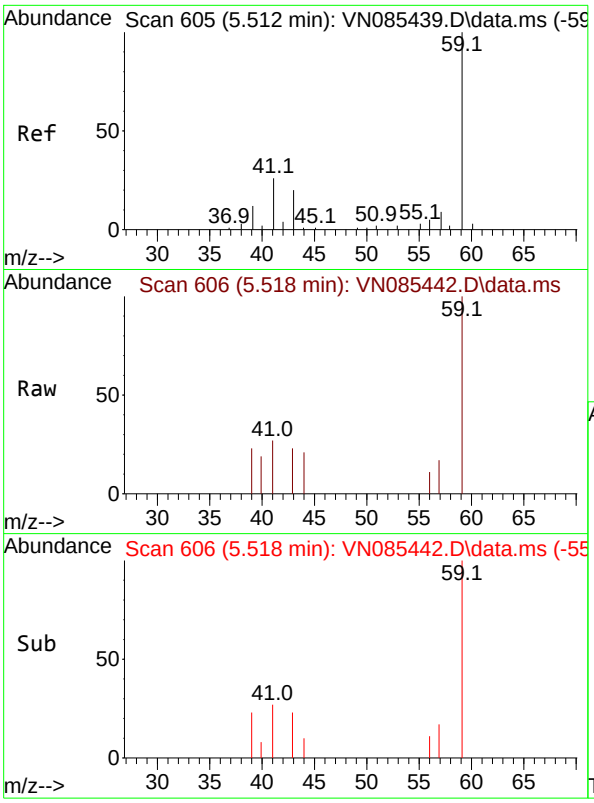


#10
Methyl Iodide
Concen: 4.793 ug/l
RT: 4.583 min Scan# 447
Delta R.T. -0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion:142 Resp: 12331

Ion	Ratio	Lower	Upper
142	100		
127	50.9	40.3	60.5
141	15.0	12.8	19.2



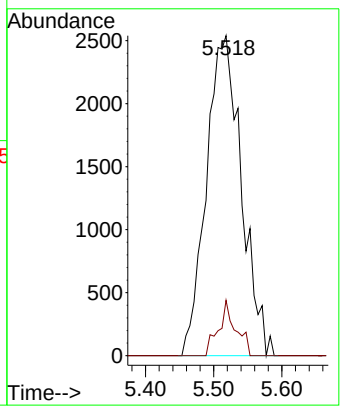


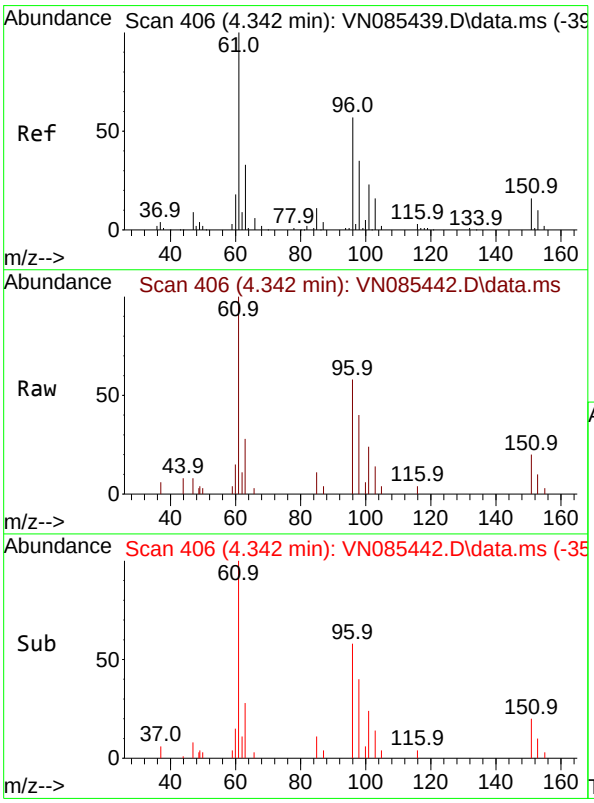
#11
Tert butyl alcohol
Concen: 26.318 ug/l
RT: 5.518 min Scan# 6
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 59 Resp: 9075

Ion	Ratio	Lower	Upper
59	100		
57	8.5	8.6	13.0#

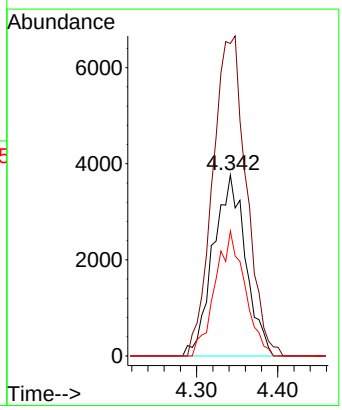


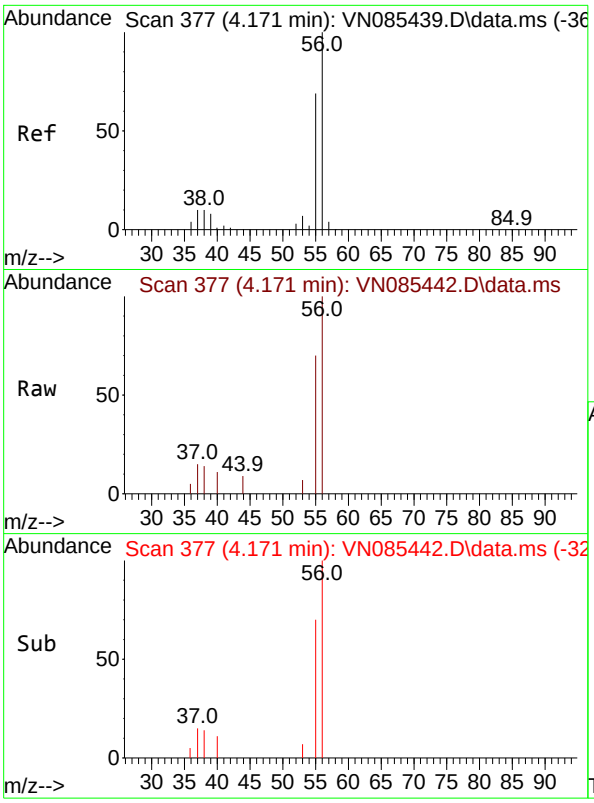


#12
1,1-Dichloroethene
Concen: 5.209 ug/l
RT: 4.342 min Scan# 406
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 96 Resp: 10429

Ion	Ratio	Lower	Upper
96	100		
61	172.7	141.0	211.4
98	69.0	49.0	73.6



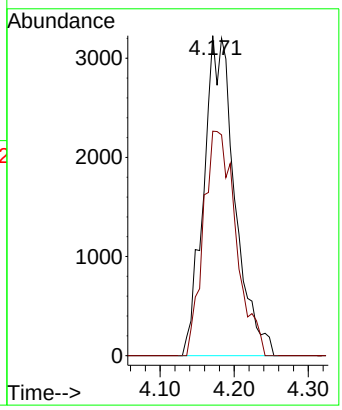


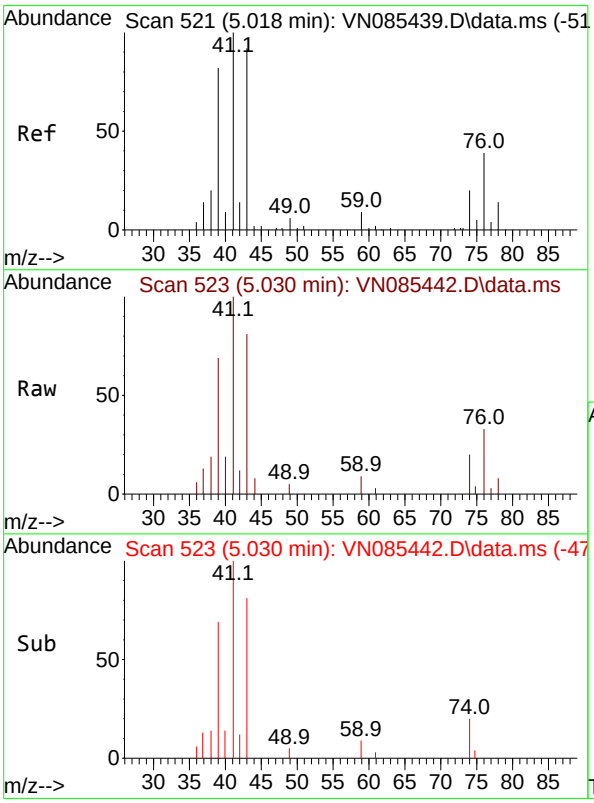
#13
Acrolein
Concen: 20.033 ug/l
RT: 4.171 min Scan# 3
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 56 Resp: 9430

Ion	Ratio	Lower	Upper
56	100		
55	73.2	56.3	84.5

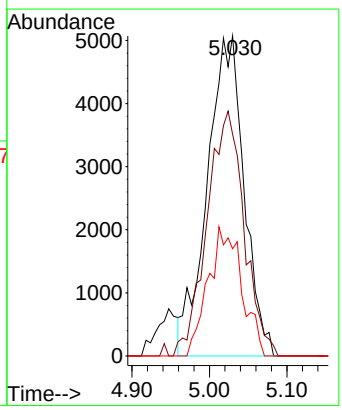


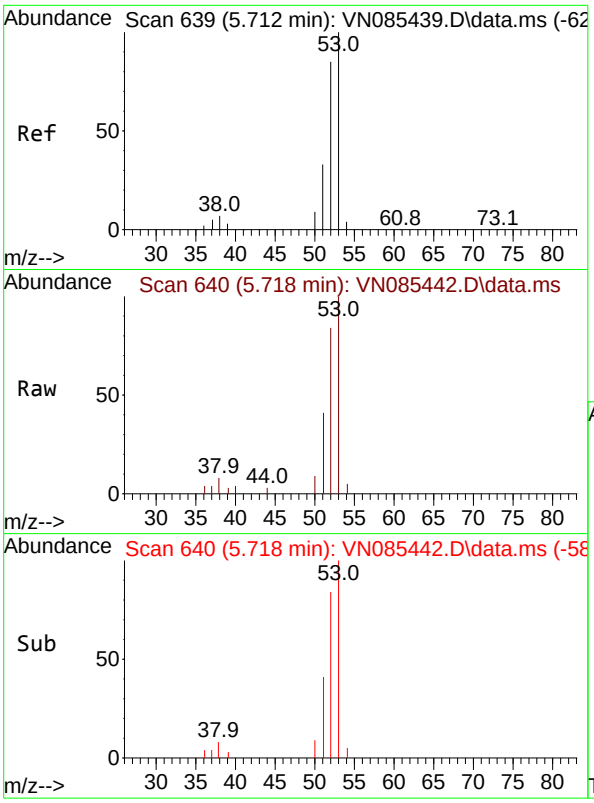


#14
Allyl chloride
Concen: 5.153 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.012 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 41 Resp: 16741

Ion	Ratio	Lower	Upper
41	100		
39	77.4	64.4	96.6
76	36.6	30.5	45.7



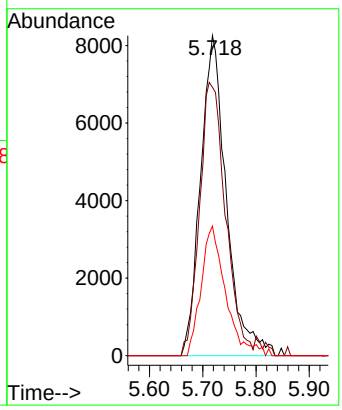


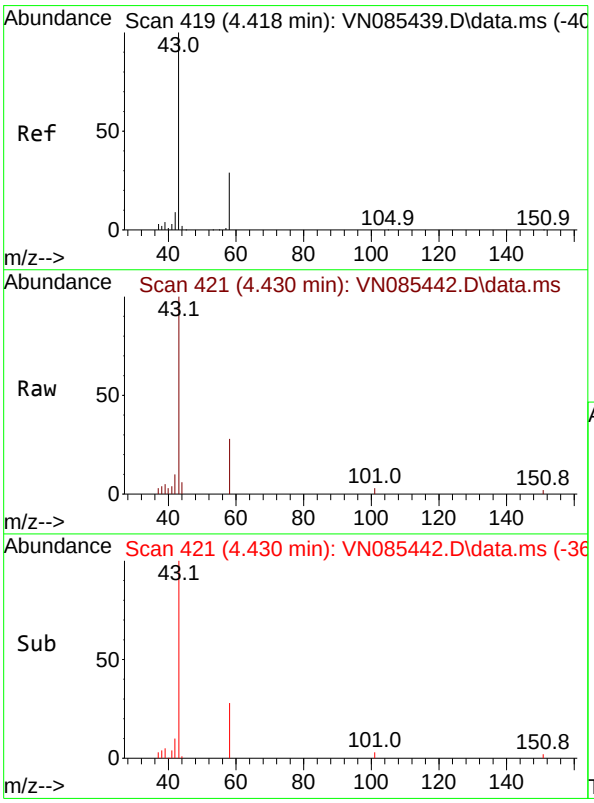
#15
Acrylonitrile
Concen: 25.445 ug/l
RT: 5.718 min Scan# 64
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 53 Resp: 27869

Ion	Ratio	Lower	Upper
53	100		
52	85.5	65.5	98.3
51	38.5	29.8	44.8

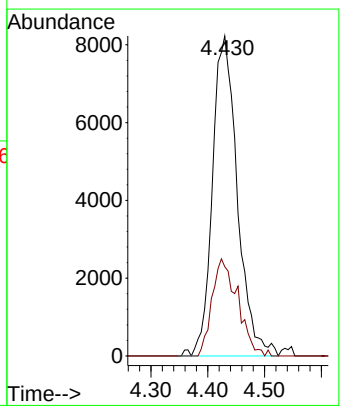


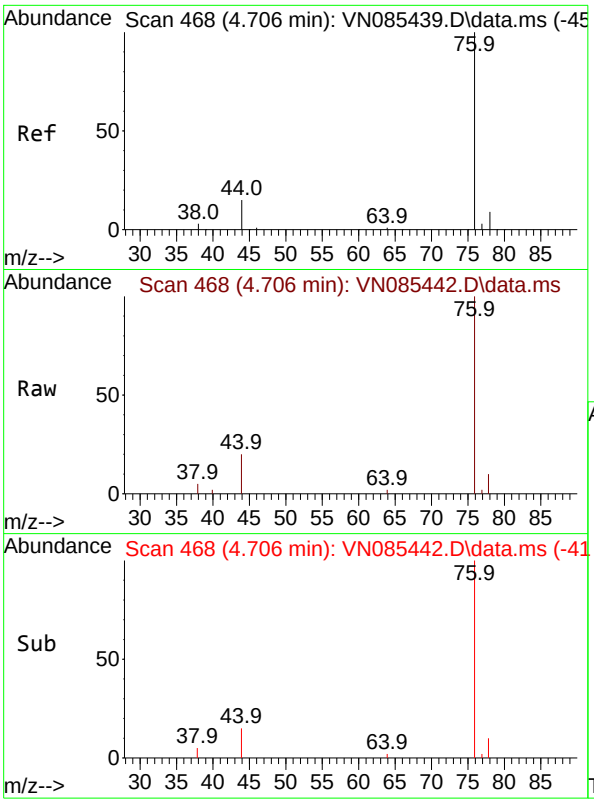


#16
Acetone
Concen: 25.819 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.012 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 43 Resp: 25122

Ion	Ratio	Lower	Upper
43	100		
58	27.9	23.8	35.6



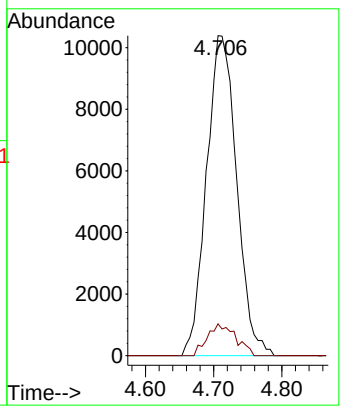


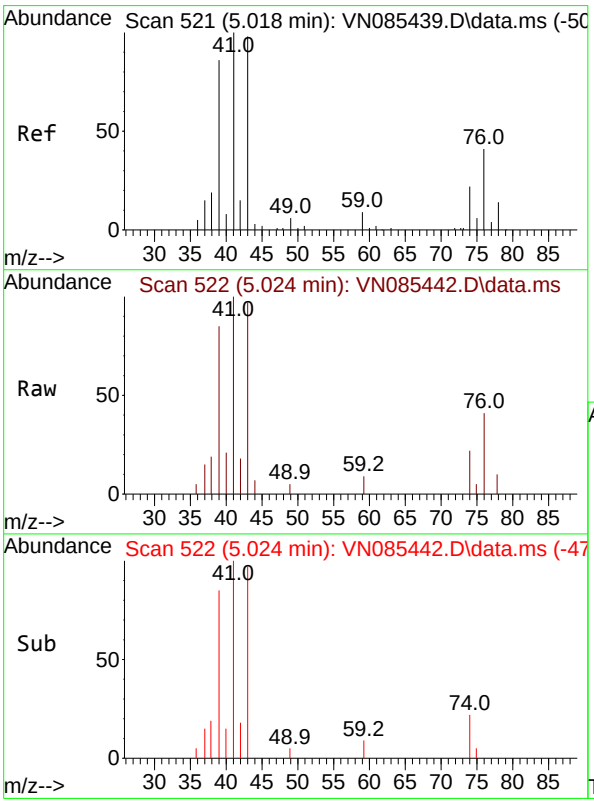
#17
Carbon Disulfide
Concen: 5.202 ug/l
RT: 4.706 min Scan# 4
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 76 Resp: 32068

Ion	Ratio	Lower	Upper
76	100		
78	9.9	6.9	10.3

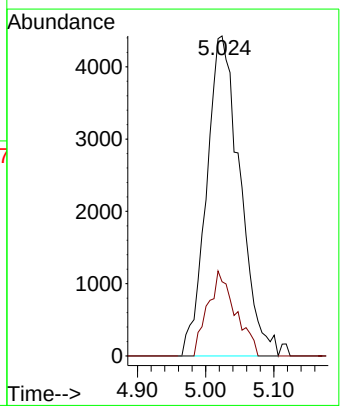


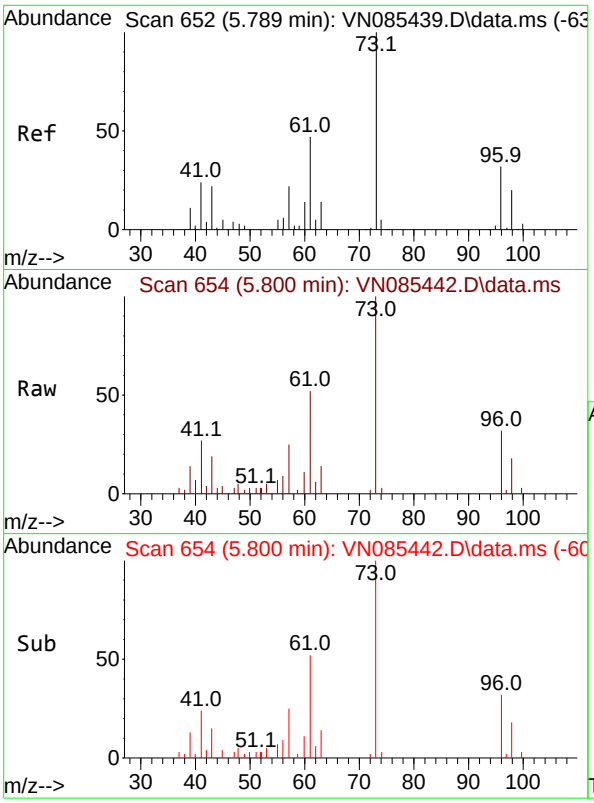


#18
Methyl Acetate
Concen: 5.106 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 43 Resp: 15106

Ion	Ratio	Lower	Upper
43	100		
74	22.0	18.6	28.0



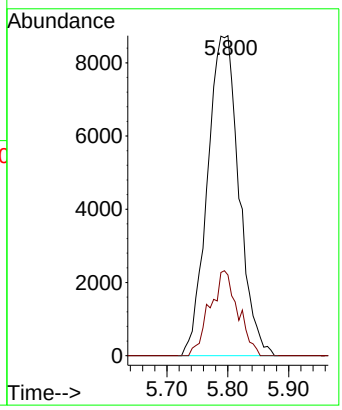


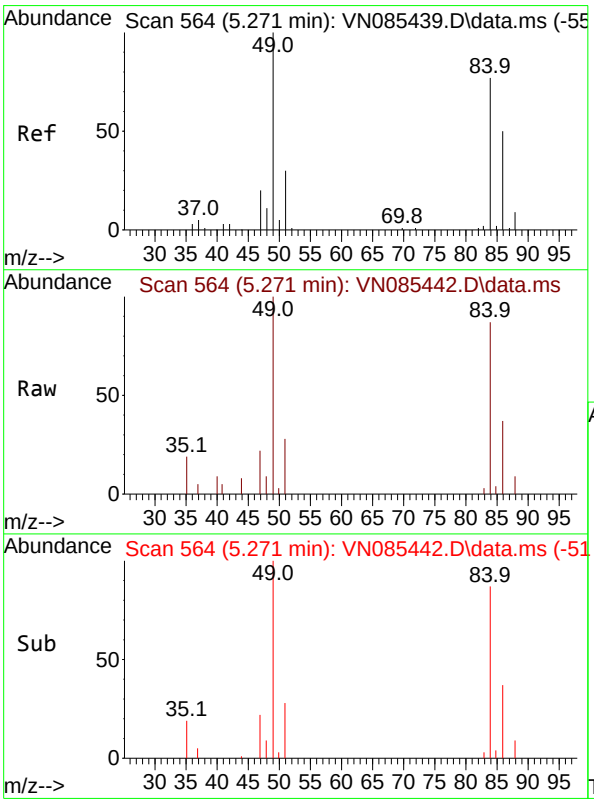
#19
Methyl tert-butyl Ether
Concen: 4.836 ug/l
RT: 5.800 min Scan# 6
Delta R.T. 0.012 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 73 Resp: 31439

Ion	Ratio	Lower	Upper
73	100		
57	25.2	17.8	26.8

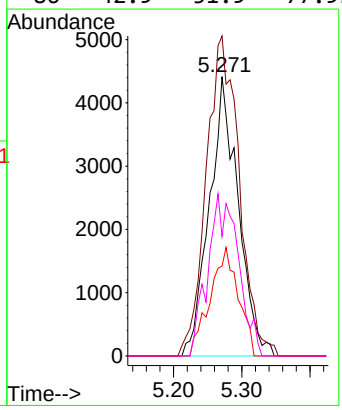


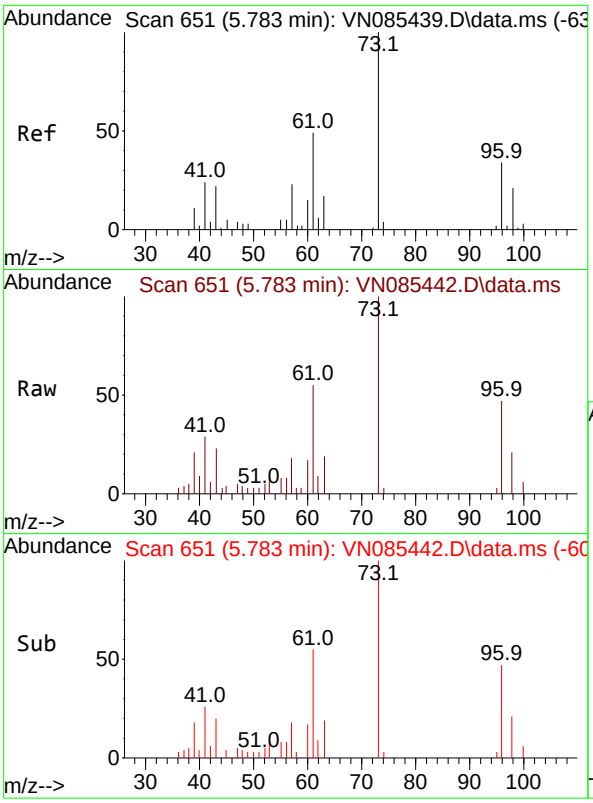


#20
Methylene Chloride
Concen: 5.389 ug/l
RT: 5.271 min Scan# 564
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 84 Resp: 12981

Ion	Ratio	Lower	Upper
84	100		
49	114.5	104.1	156.1
51	32.1	31.0	46.4
86	42.9	51.9	77.9#



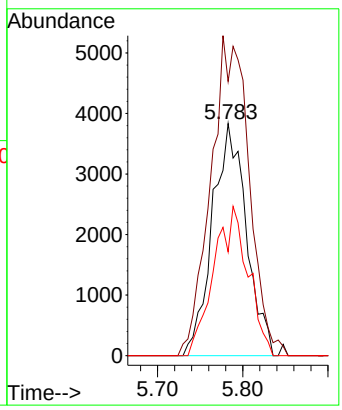


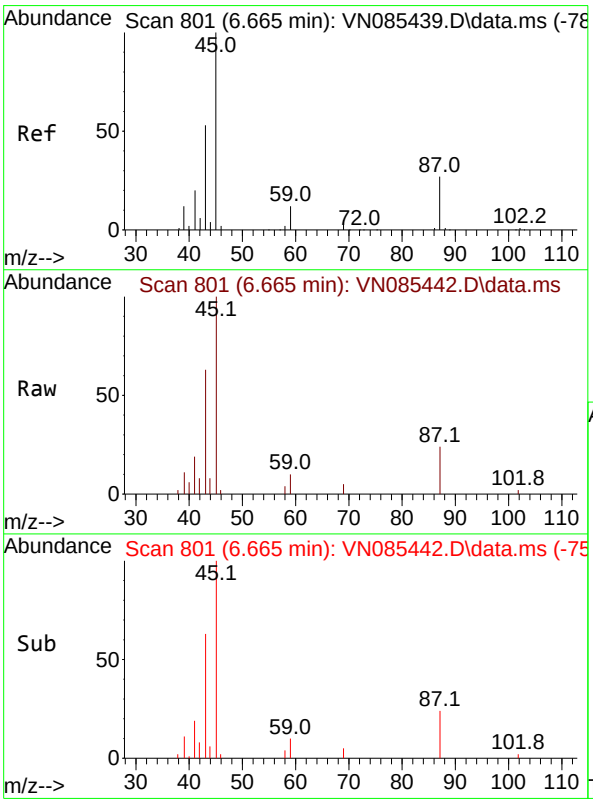
#21
trans-1,2-Dichloroethene
Concen: 4.960 ug/l
RT: 5.783 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 96 Resp: 10614

Ion	Ratio	Lower	Upper
96	100		
61	118.1	115.7	173.5
98	44.7	49.8	74.8#

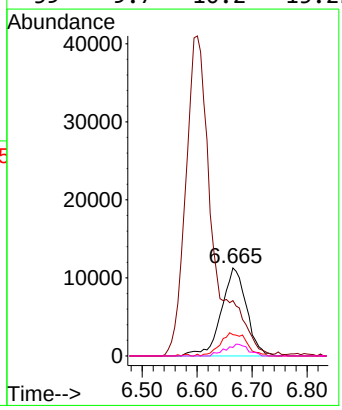


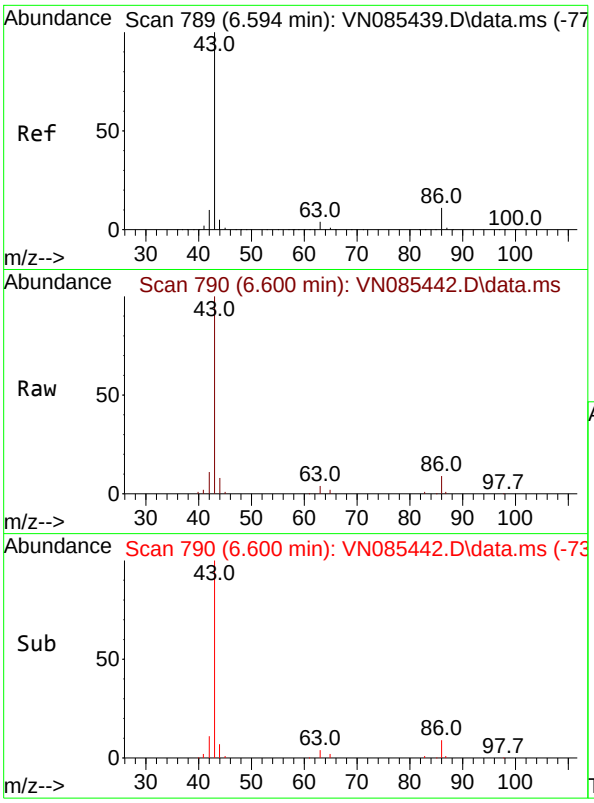


#22
Diisopropyl ether
Concen: 4.962 ug/l
RT: 6.665 min Scan# 801
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 45 Resp: 35785

Ion	Ratio	Lower	Upper
45	100		
43	58.3	45.0	67.6
87	24.2	21.8	32.8
59	9.7	10.2	15.2#



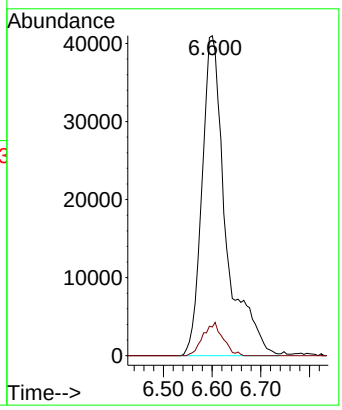


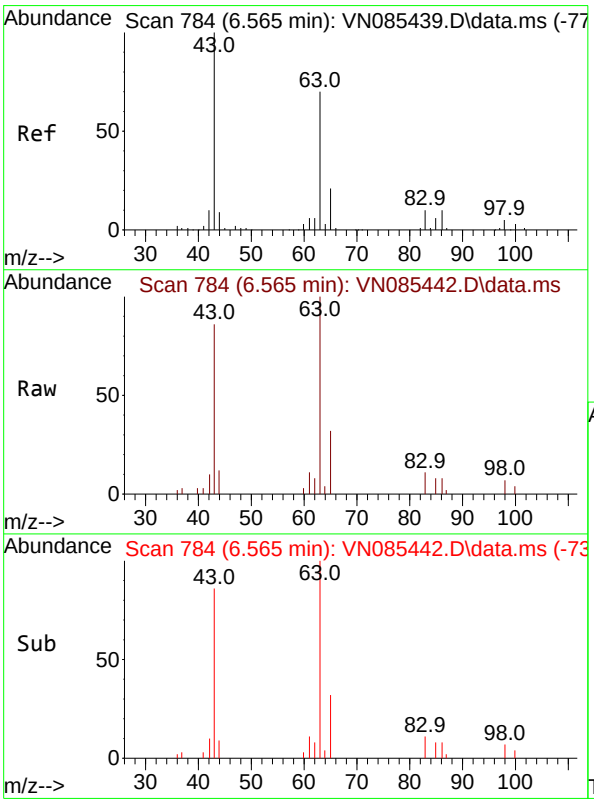
#23
Vinyl Acetate
Concen: 27.533 ug/l
RT: 6.600 min Scan# 7
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 139425

Ion	Ratio	Lower	Upper
43	100		
86	9.0	8.4	12.6

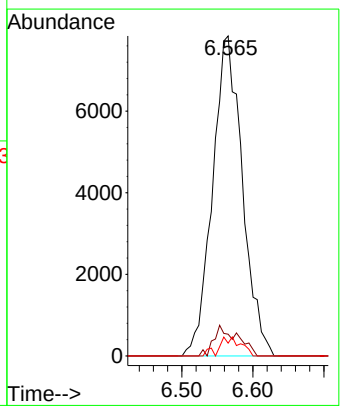


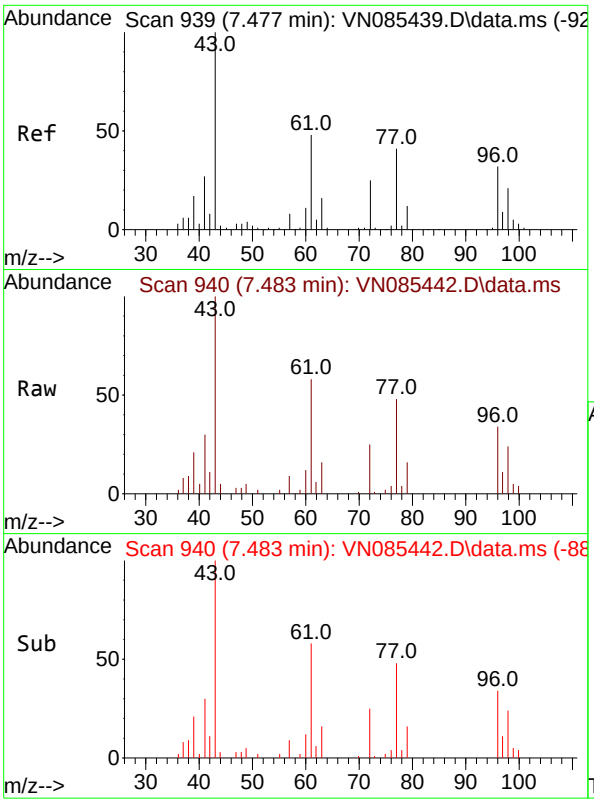


#24
1,1-Dichloroethane
Concen: 5.200 ug/l
RT: 6.565 min Scan# 784
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 63 Resp: 22865

Ion	Ratio	Lower	Upper
63	100		
98	6.8	3.3	9.8
100	4.0	2.0	6.0



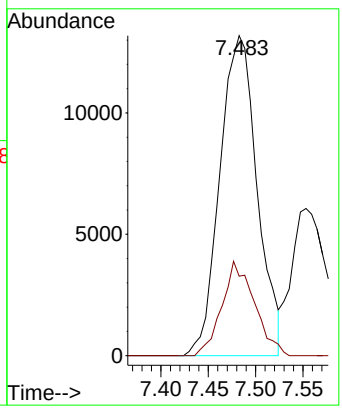


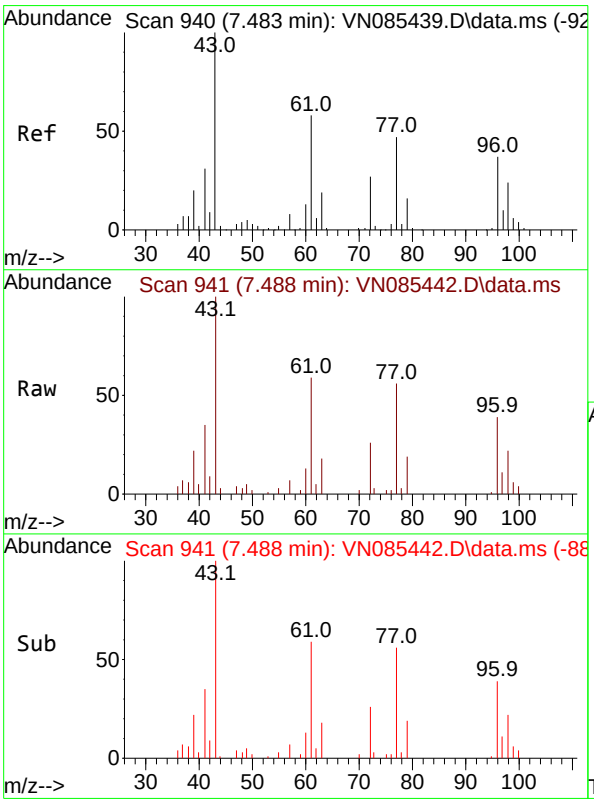
#25
2-Butanone
Concen: 25.231 ug/l
RT: 7.483 min Scan# 94
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 36127

Ion	Ratio	Lower	Upper
43	100		
72	24.9	20.2	30.4

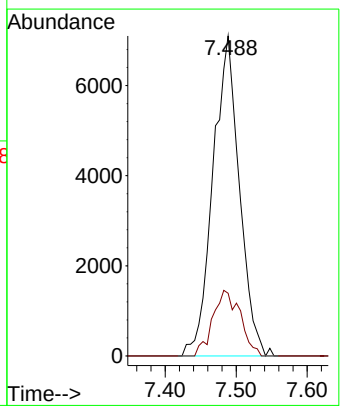


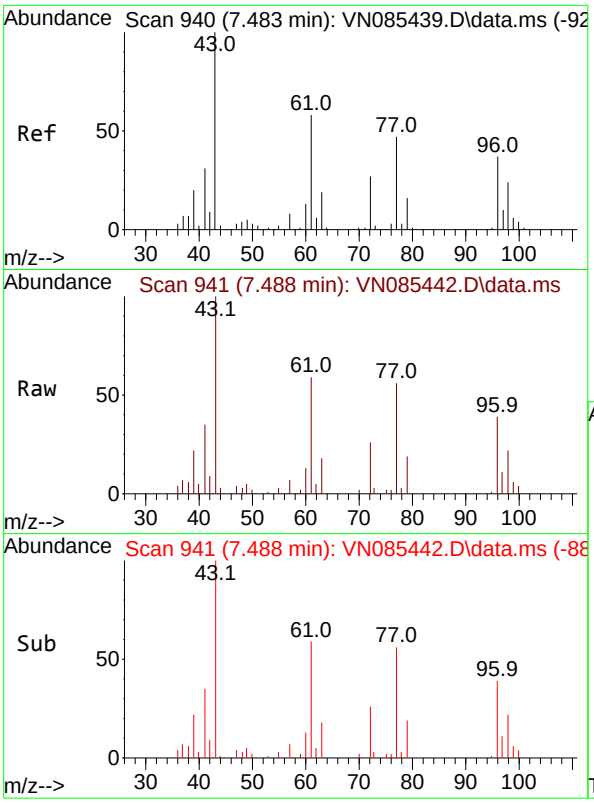


#26
2,2-Dichloropropane
Concen: 5.175 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 77 Resp: 18398

Ion	Ratio	Lower	Upper
77	100		
97	21.2	10.7	32.1



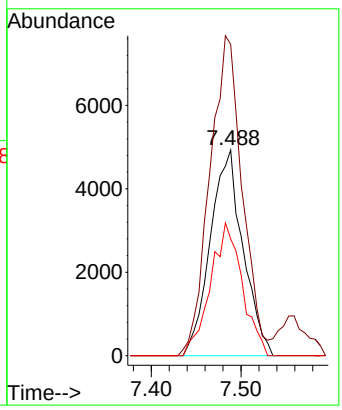


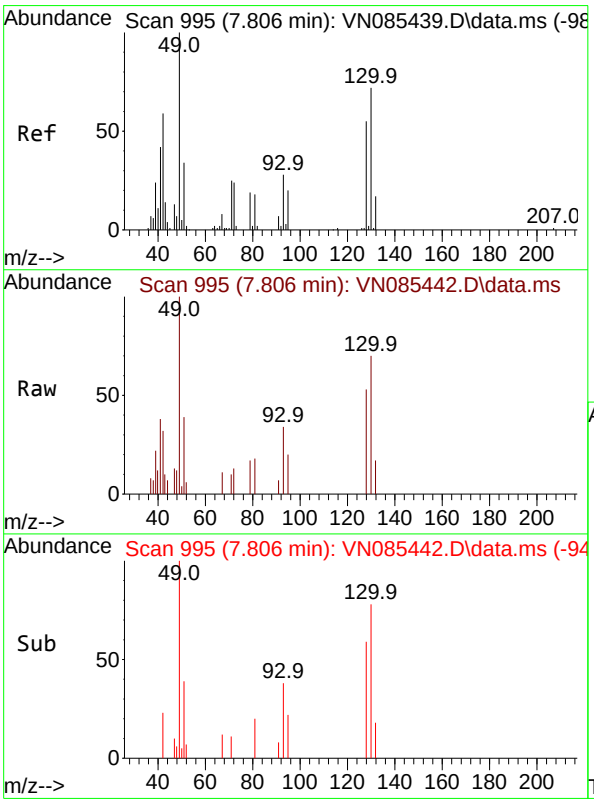
#27
cis-1,2-Dichloroethene
Concen: 4.951 ug/l
RT: 7.488 min Scan# 94
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 96 Resp: 12477

Ion	Ratio	Lower	Upper
96	100		
61	154.5	0.0	311.8
98	62.8	0.0	126.0

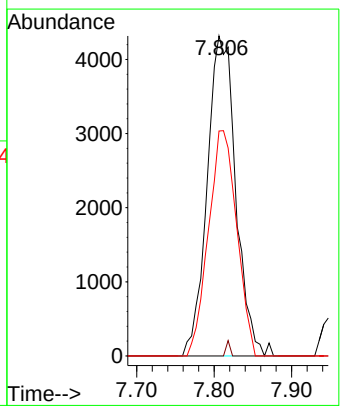


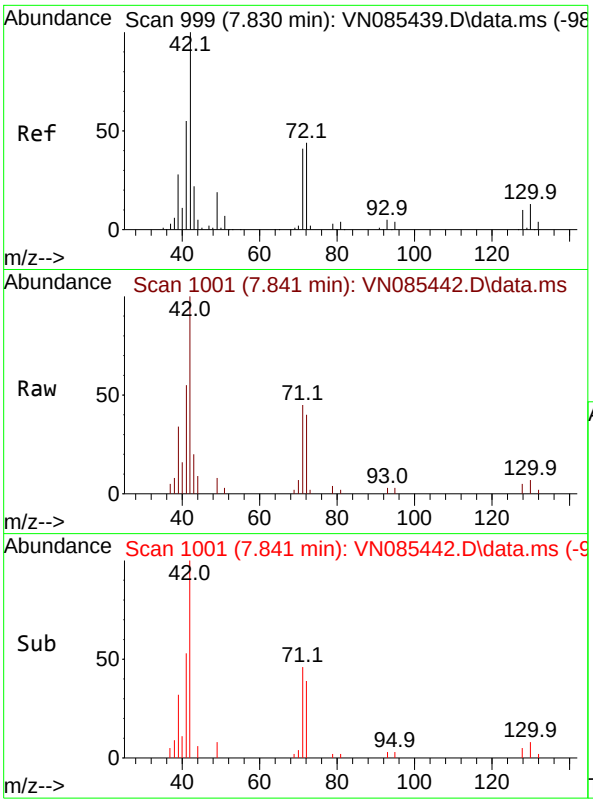


#28
Bromochloromethane
Concen: 5.424 ug/l
RT: 7.806 min Scan# 995
Delta R.T. -0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 49 Resp: 11096

Ion	Ratio	Lower	Upper
49	100		
129	0.7	0.0	4.4
130	69.5	55.0	82.4



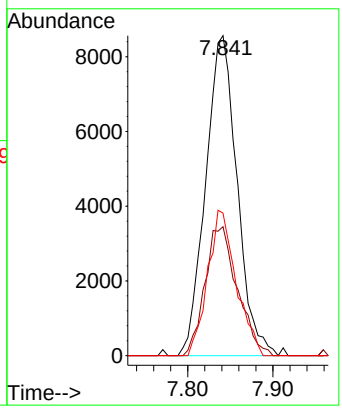


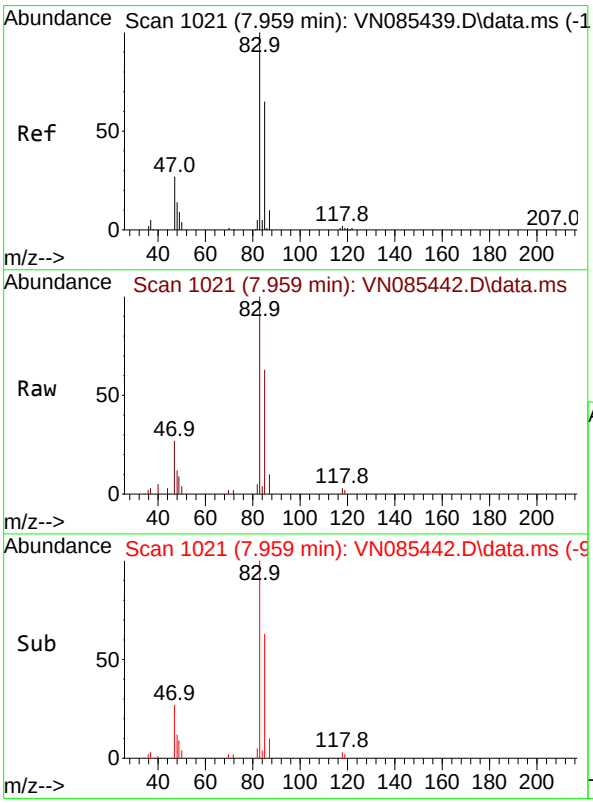
#29
Tetrahydrofuran
Concen: 24.215 ug/l
RT: 7.841 min Scan# 1
Delta R.T. 0.012 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 42 Resp: 21983

Ion	Ratio	Lower	Upper
42	100		
72	41.5	34.2	51.2
71	41.0	32.5	48.7

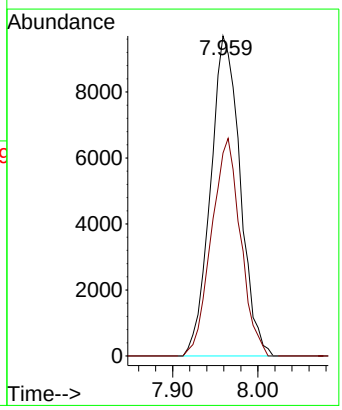


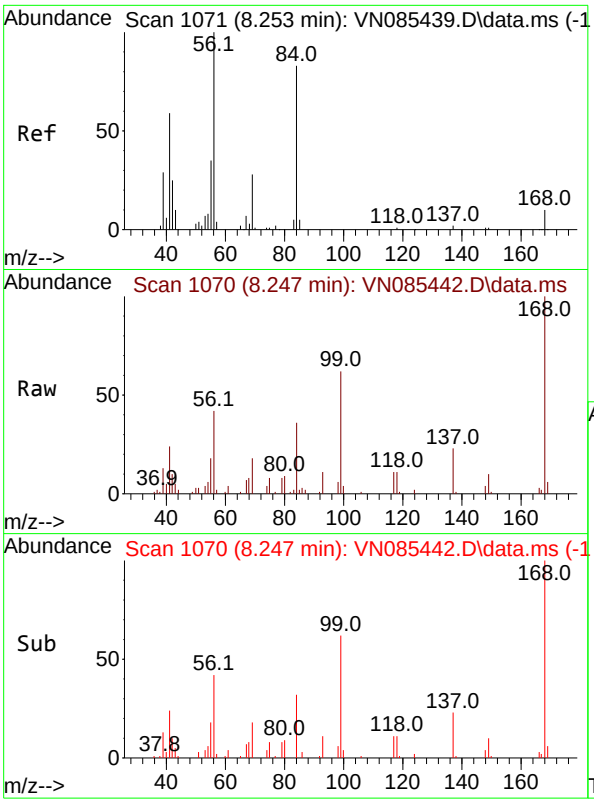


#30
Chloroform
Concen: 5.146 ug/l
RT: 7.959 min Scan# 1021
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 83 Resp: 23384

Ion	Ratio	Lower	Upper
83	100		
85	63.4	51.8	77.6



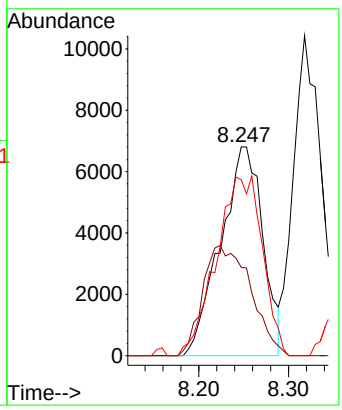


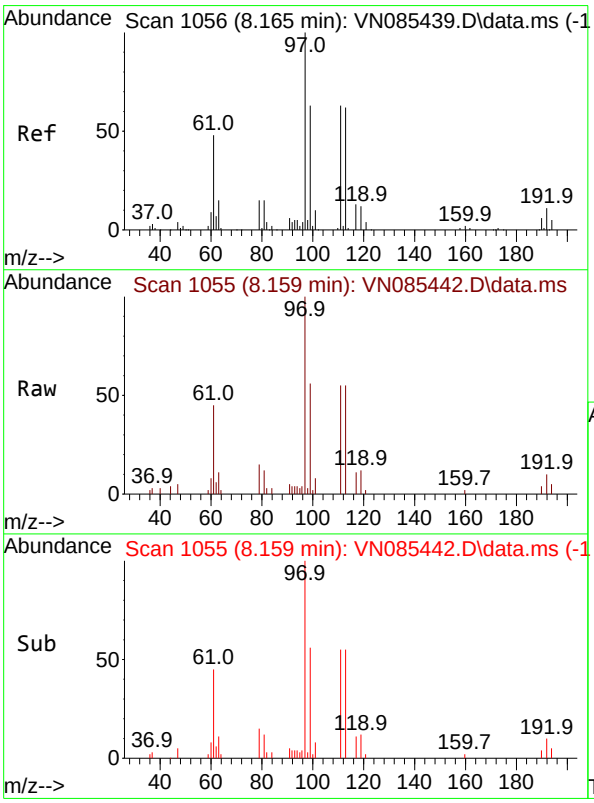
#31
Cyclohexane
Concen: 5.846 ug/l
RT: 8.247 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 56 Resp: 22343

Ion	Ratio	Lower	Upper
56	100		
69	42.3	22.2	33.4#
84	84.3	66.4	99.6

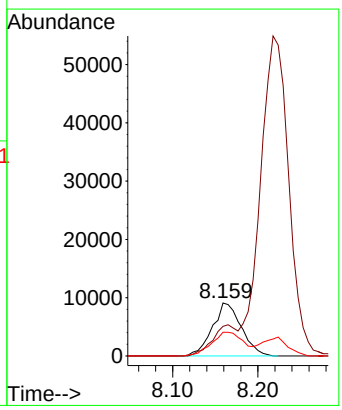


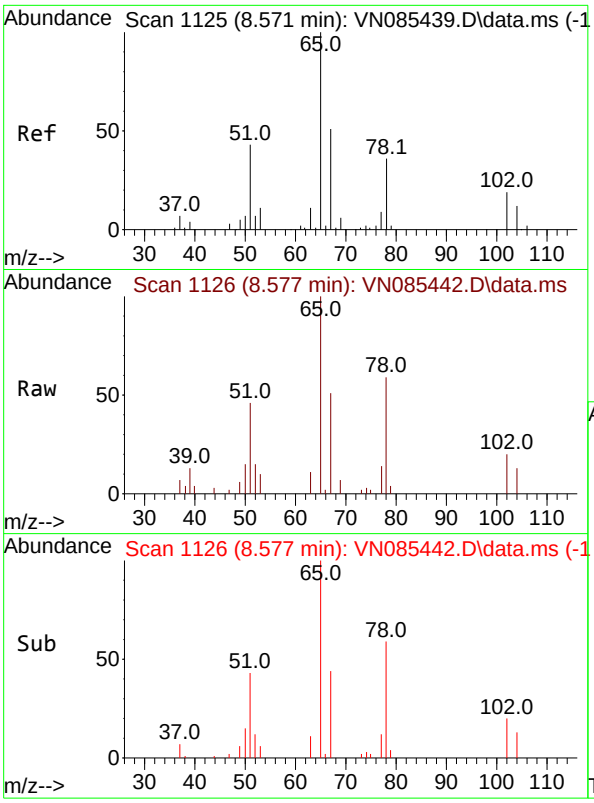


#32
1,1,1-Trichloroethane
Concen: 5.372 ug/l
RT: 8.159 min Scan# 1055
Delta R.T. -0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 97 Resp: 21416

Ion	Ratio	Lower	Upper
97	100		
99	50.5	49.8	74.6
61	50.1	41.4	62.2



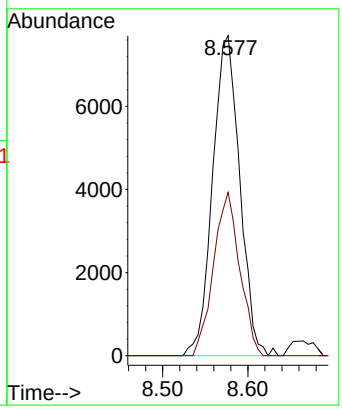


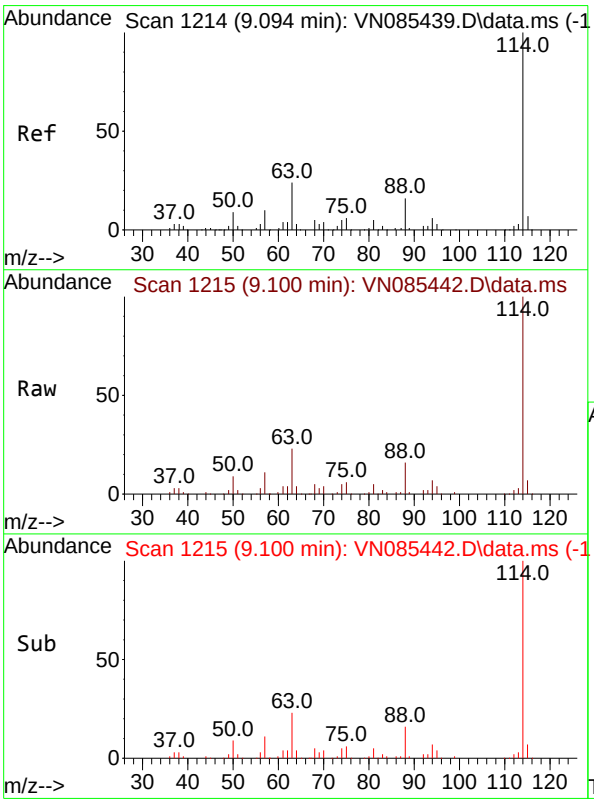
#33
1,2-Dichloroethane-d4
Concen: 5.660 ug/l
RT: 8.577 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 65 Resp: 17046

Ion	Ratio	Lower	Upper
65	100		
67	49.2	0.0	101.6

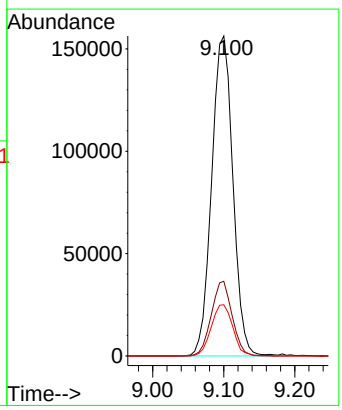


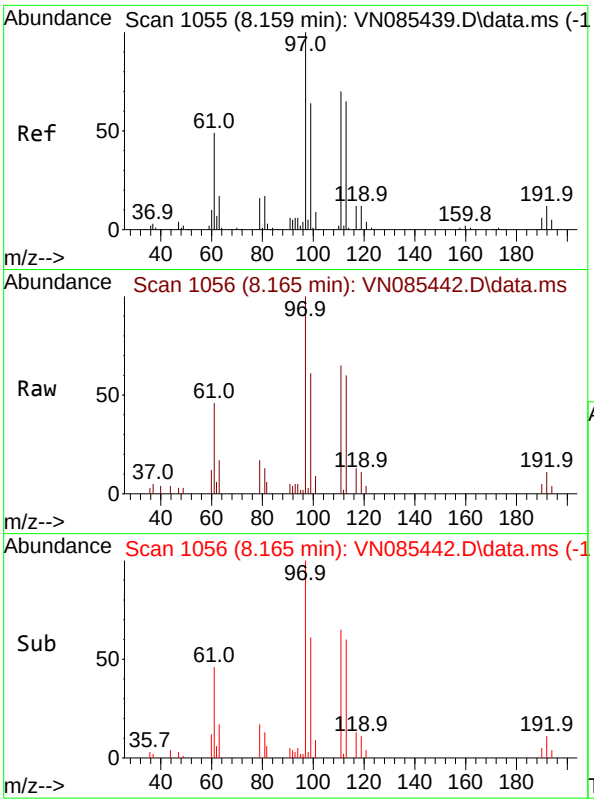


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion:114 Resp: 324413

Ion	Ratio	Lower	Upper
114	100		
63	23.3	0.0	47.6
88	16.0	0.0	32.6



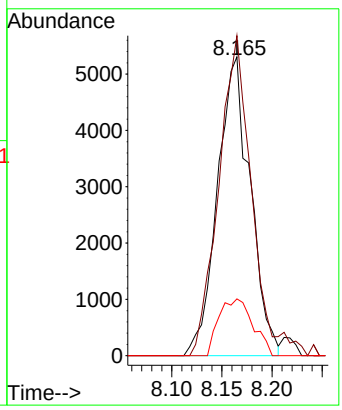


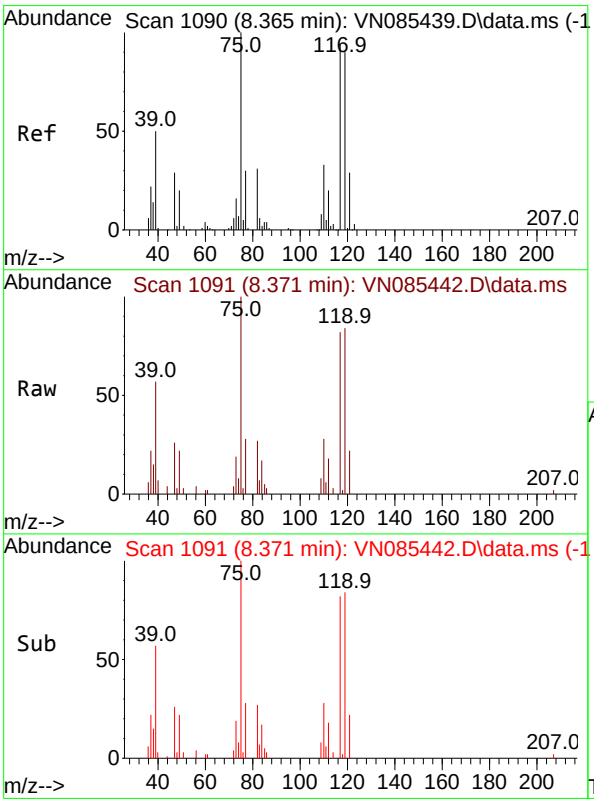
#35
Dibromofluoromethane
Concen: 5.377 ug/l
RT: 8.165 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion:113 Resp: 12102

Ion	Ratio	Lower	Upper
113	100		
111	107.4	82.7	124.1
192	19.7	14.3	21.5

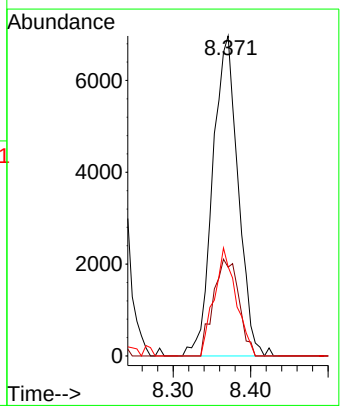


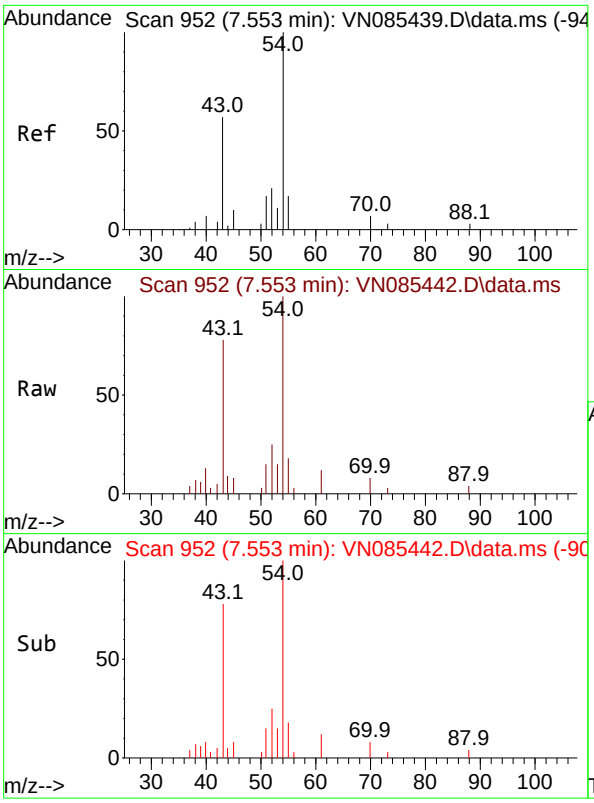


#36
1,1-Dichloropropene
Concen: 5.029 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 75 Resp: 15886

Ion	Ratio	Lower	Upper
75	100		
110	30.3	16.5	49.5
77	29.2	24.4	36.6



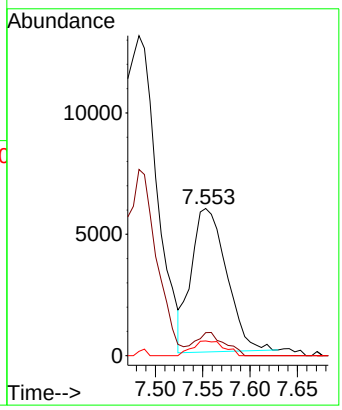


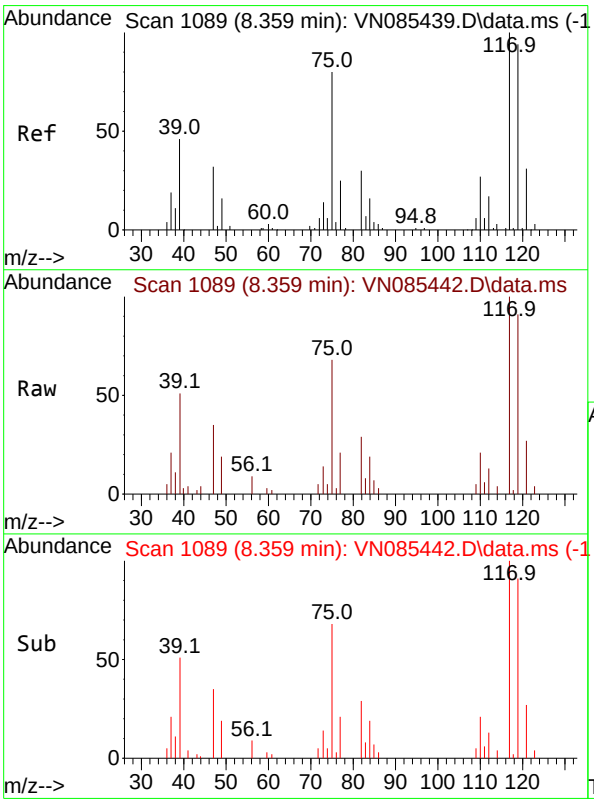
#37
Ethyl Acetate
Concen: 4.810 ug/l
RT: 7.553 min Scan# 9
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 15336

Ion	Ratio	Lower	Upper
43	100		
61	13.5	10.9	16.3
70	9.2	7.5	11.3

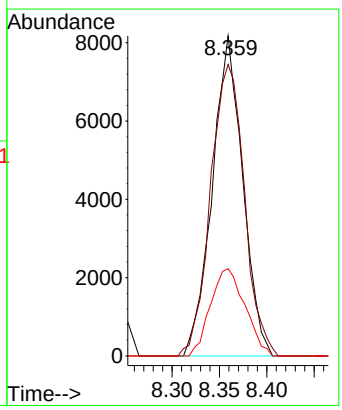


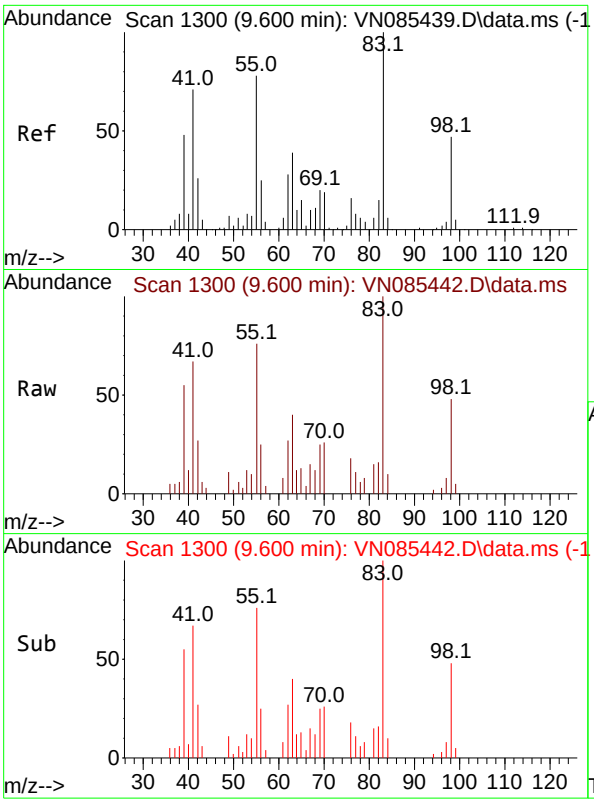


#38
Carbon Tetrachloride
Concen: 5.065 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion:117 Resp: 18317

Ion	Ratio	Lower	Upper
117	100		
119	91.1	75.4	113.2
121	27.3	24.6	37.0



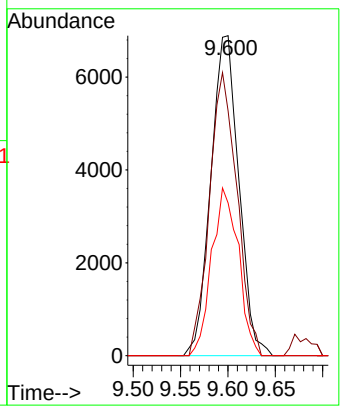


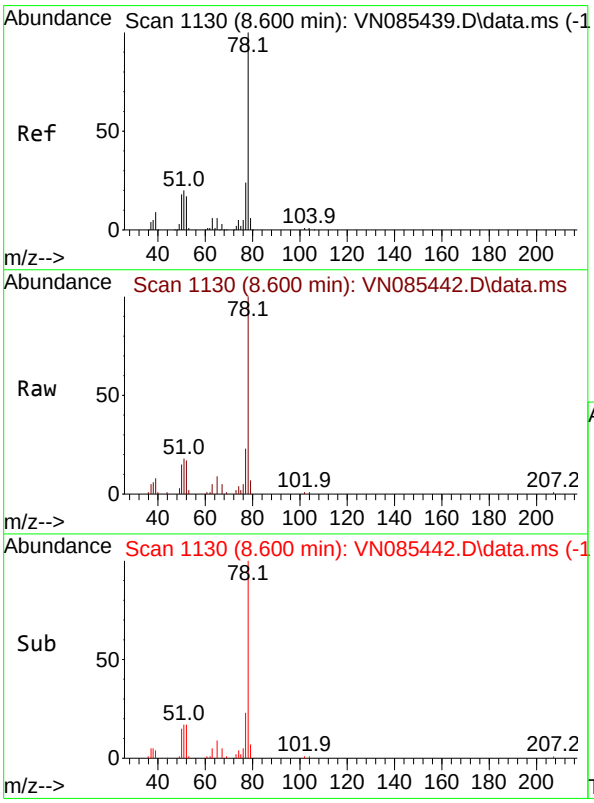
#39
Methylcyclohexane
Concen: 4.776 ug/l
RT: 9.600 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 83 Resp: 14175

Ion	Ratio	Lower	Upper
83	100		
55	76.5	62.6	94.0
98	47.7	37.7	56.5

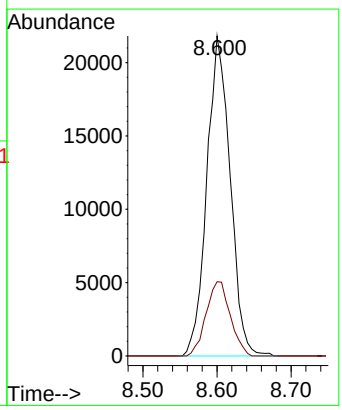


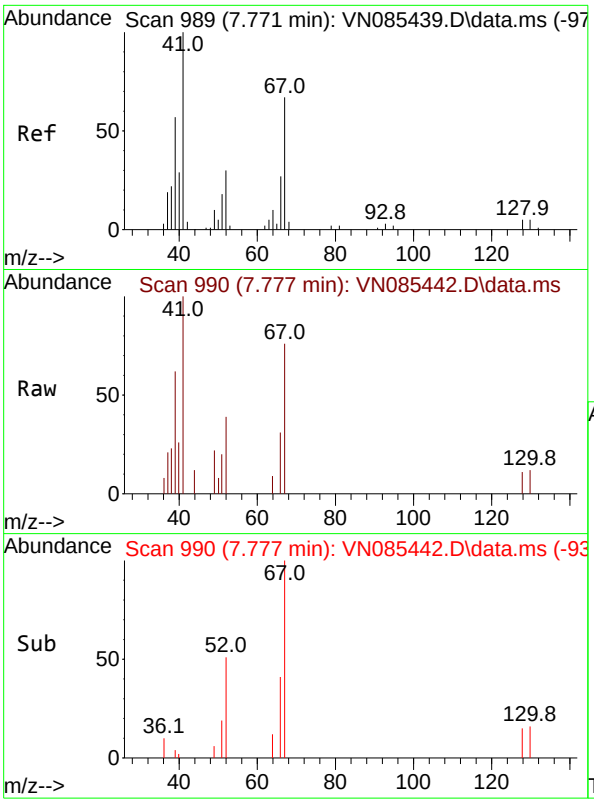


#40
Benzene
Concen: 5.040 ug/l
RT: 8.600 min Scan# 1130
Delta R.T. -0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 78 Resp: 47833

Ion	Ratio	Lower	Upper
78	100		
77	23.2	19.0	28.6



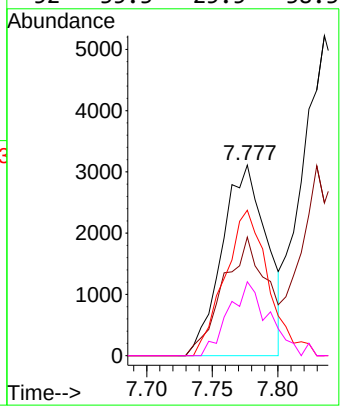


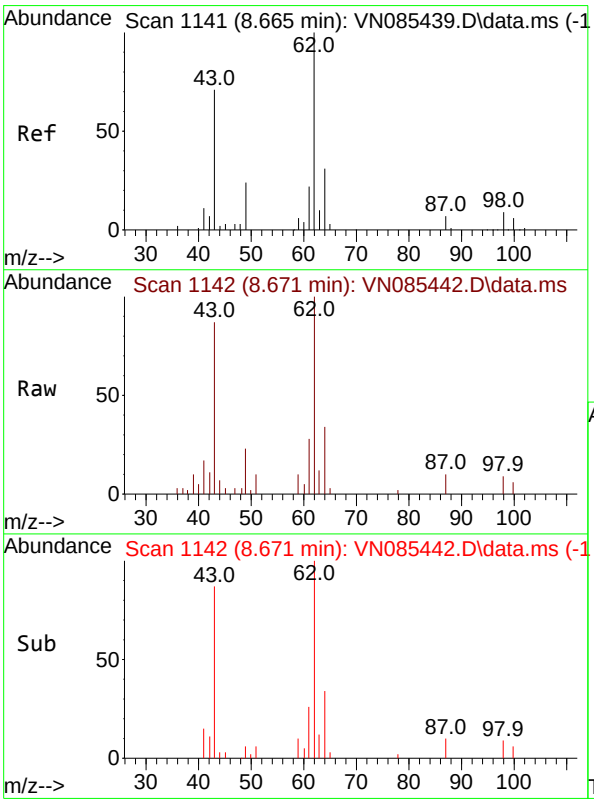
#41
Methacrylonitrile
Concen: 4.449 ug/l
RT: 7.777 min Scan# 9
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 41 Resp: 7380

Ion	Ratio	Lower	Upper
41	100		
39	60.5	46.0	69.0
67	74.6	57.4	86.2
52	35.3	25.5	38.3

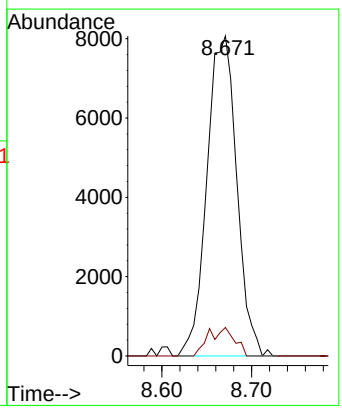


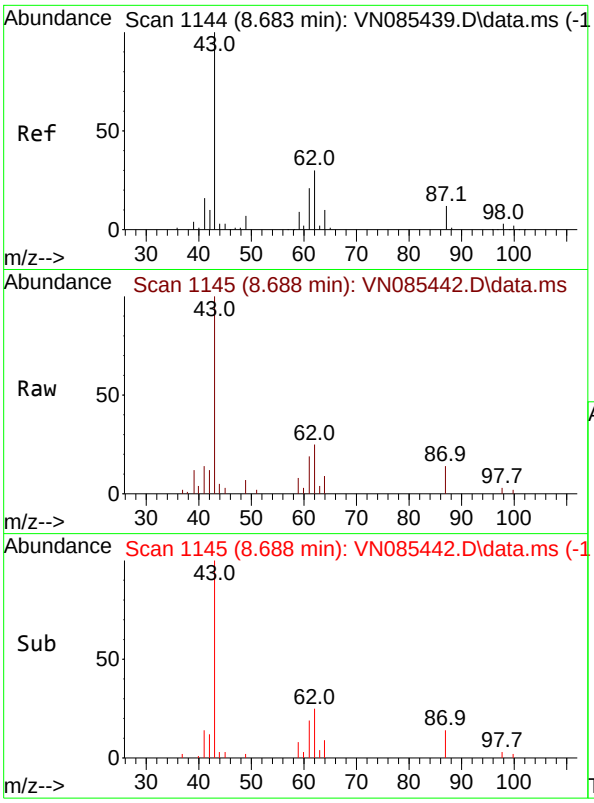


#42
1,2-Dichloroethane
Concen: 5.211 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 62 Resp: 18628

Ion	Ratio	Lower	Upper
62	100		
98	7.8	0.0	17.0



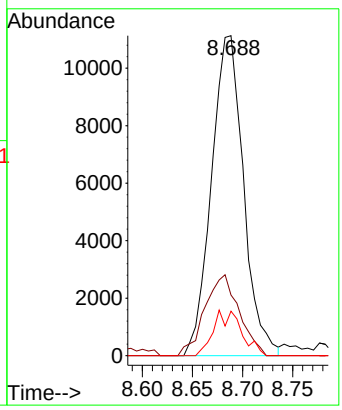


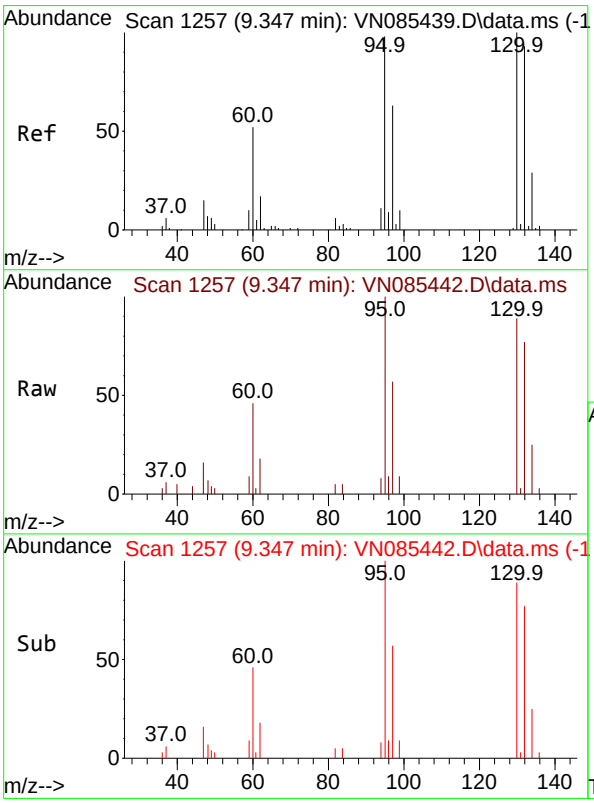
#43
Isopropyl Acetate
Concen: 4.853 ug/l
RT: 8.688 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 24792

Ion	Ratio	Lower	Upper
43	100		
61	27.0	20.7	31.1
87	12.3	9.8	14.8

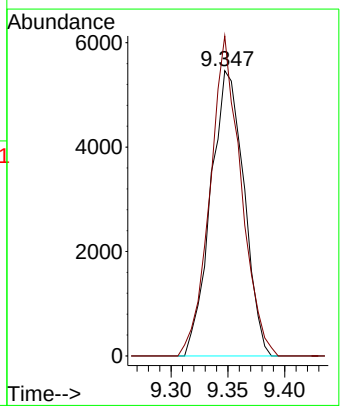


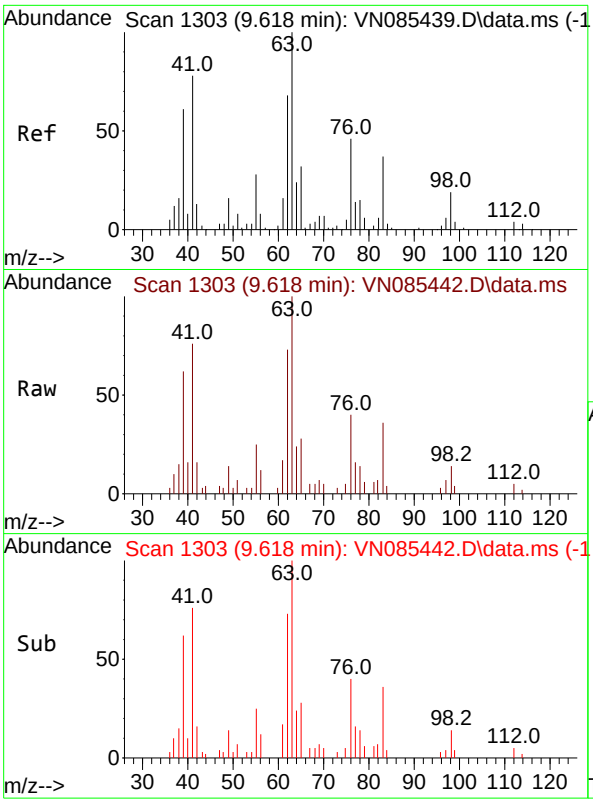


#44
Trichloroethene
Concen: 5.039 ug/l
RT: 9.347 min Scan# 1257
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion:130 Resp: 11133

Ion	Ratio	Lower	Upper
130	100		
95	112.2	0.0	195.8



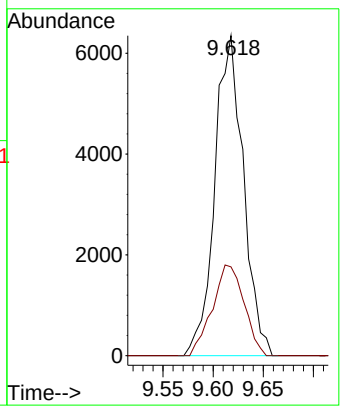


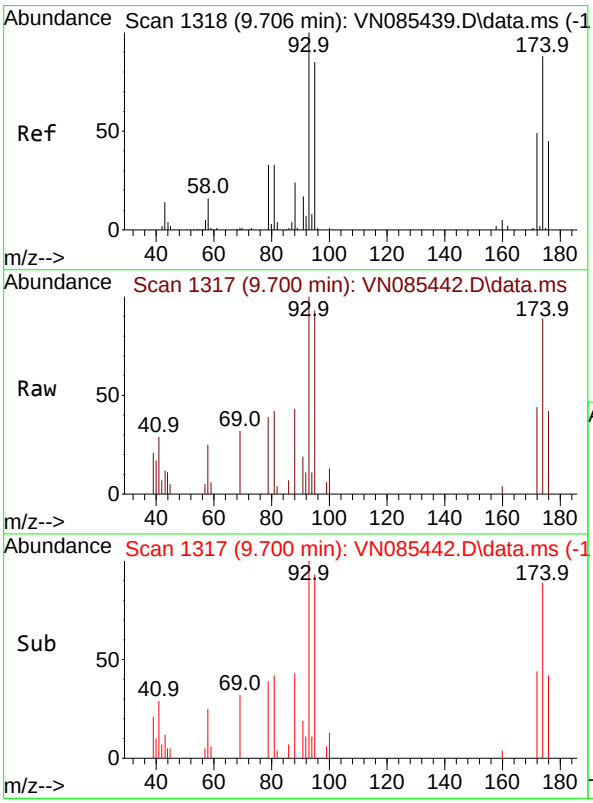
#45
1,2-Dichloropropane
Concen: 5.194 ug/l
RT: 9.618 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 63 Resp: 12591

Ion	Ratio	Lower	Upper
63	100		
65	27.8	25.6	38.4

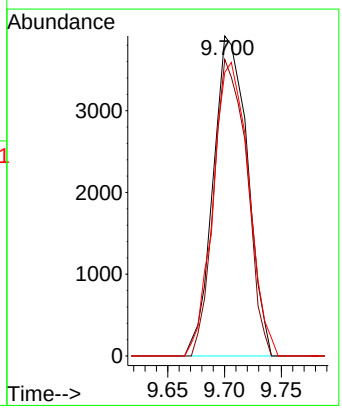


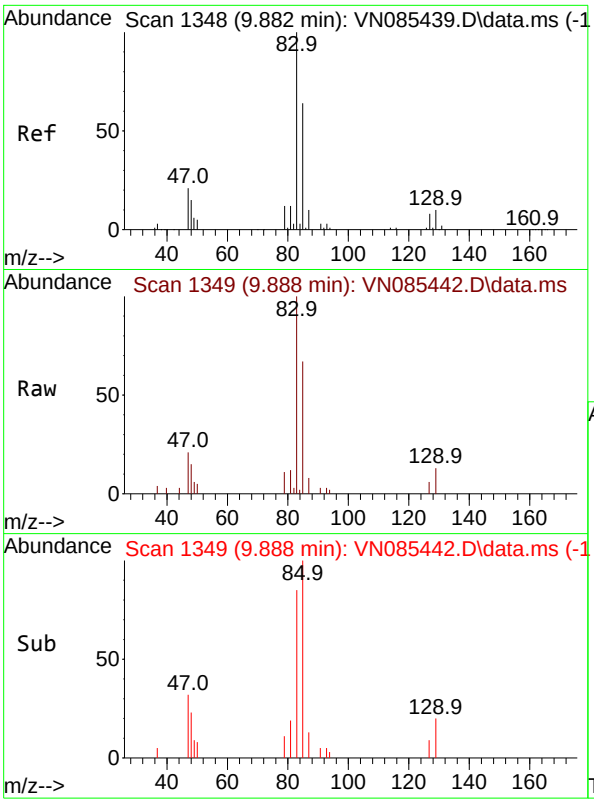


#46
Dibromomethane
Concen: 4.705 ug/l
RT: 9.700 min Scan# 1317
Delta R.T. -0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 93 Resp: 8230

Ion	Ratio	Lower	Upper
93	100		
95	88.7	64.7	97.1
174	95.0	69.0	103.4



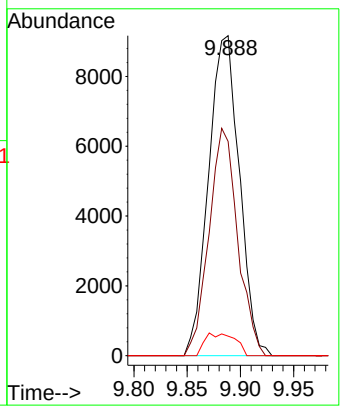


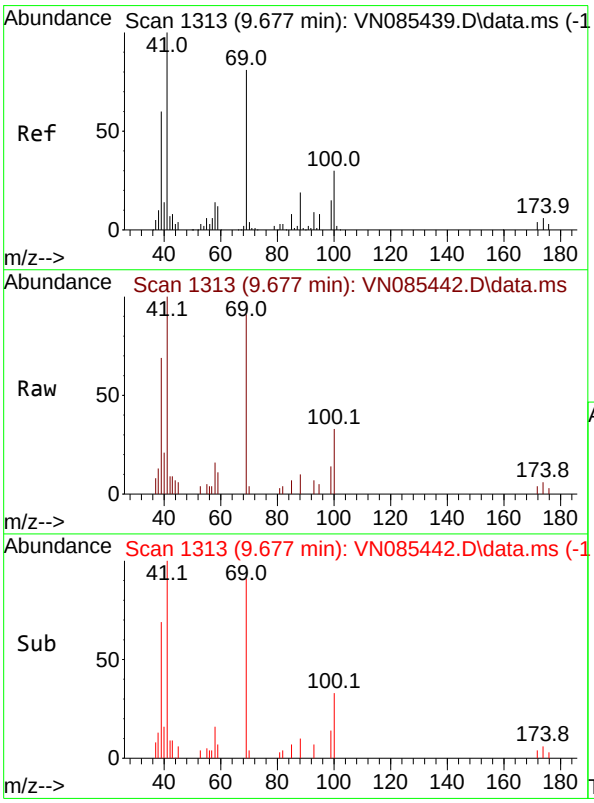
#47
Bromodichloromethane
Concen: 5.179 ug/l
RT: 9.888 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 83 Resp: 18456

Ion	Ratio	Lower	Upper
83	100		
85	67.0	51.2	76.8
127	6.1	6.5	9.7#

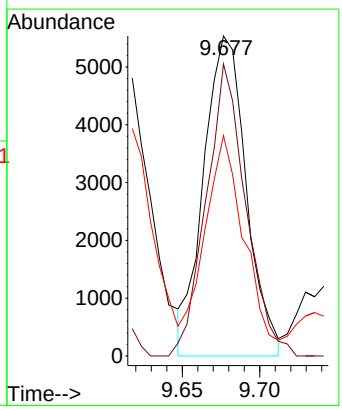


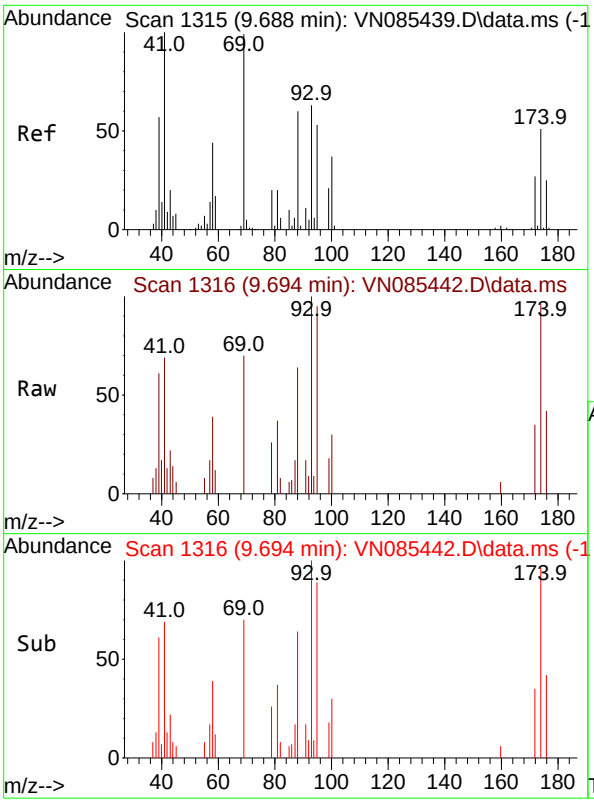


#48
Methyl methacrylate
Concen: 4.599 ug/l
RT: 9.677 min Scan# 1313
Delta R.T. -0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 41 Resp: 10574

Ion	Ratio	Lower	Upper
41	100		
69	84.9	64.7	97.1
39	65.3	49.0	73.6



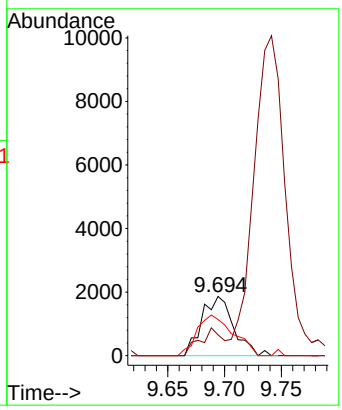


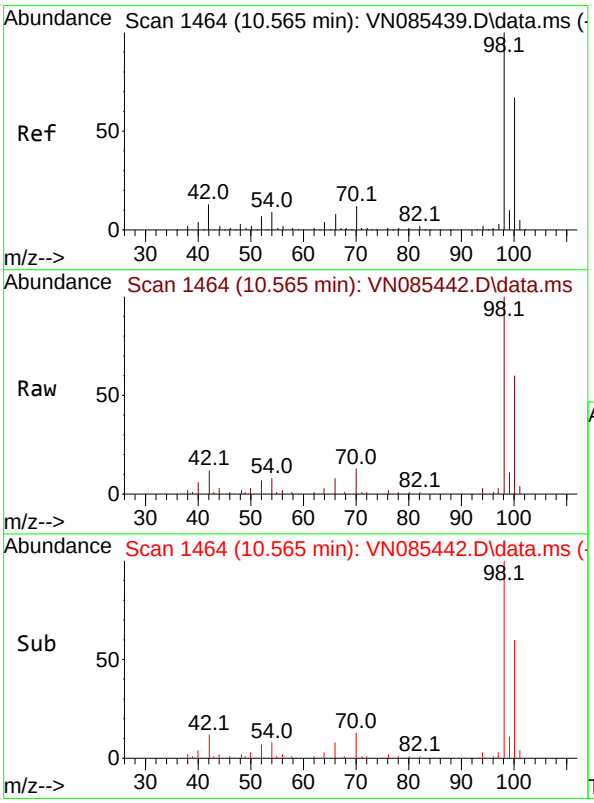
#49
1,4-Dioxane
Concen: 93.477 ug/l
RT: 9.694 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 88 Resp: 3619

Ion	Ratio	Lower	Upper
88	100		
43	32.3	26.6	39.8
58	77.9	59.5	89.3

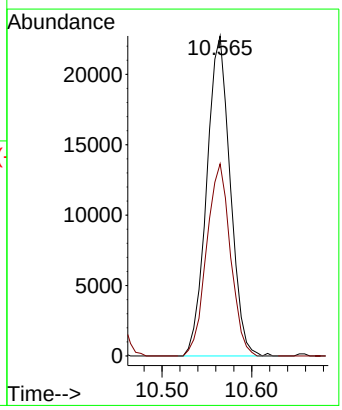


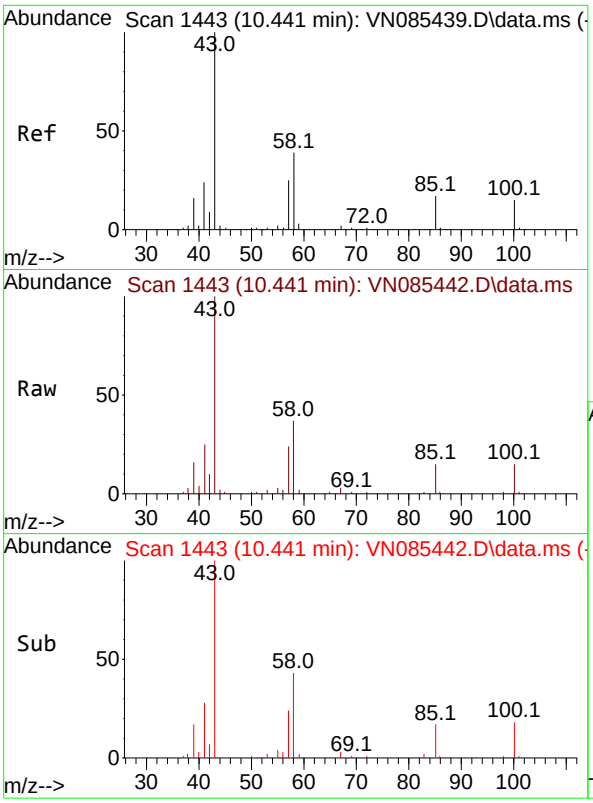


#50
Toluene-d8
Concen: 5.168 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 98 Resp: 41328

Ion	Ratio	Lower	Upper
98	100		
100	60.9	52.2	78.4



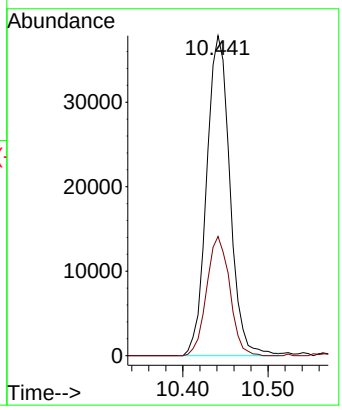


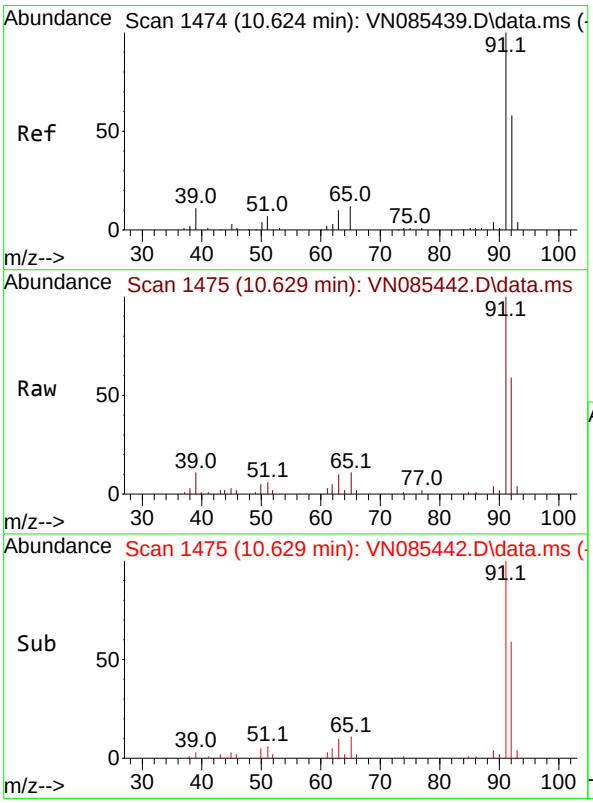
#51
4-Methyl-2-Pentanone
Concen: 24.250 ug/l
RT: 10.441 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 71889

Ion	Ratio	Lower	Upper
43	100		
58	36.9	30.5	45.7

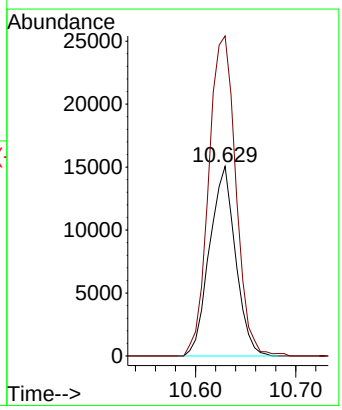


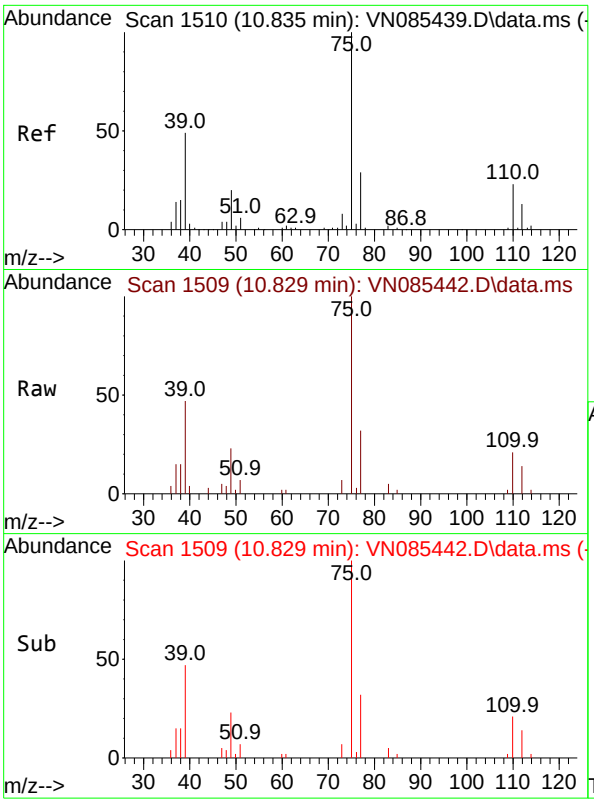


#52
Toluene
Concen: 4.928 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.005 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 92 Resp: 27098

Ion	Ratio	Lower	Upper
92	100		
91	176.4	139.2	208.8



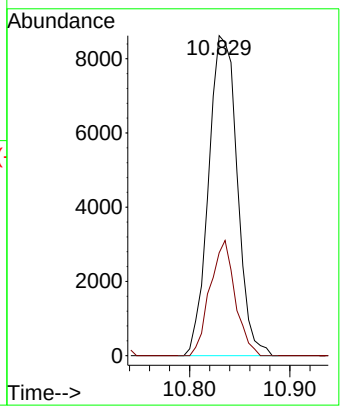


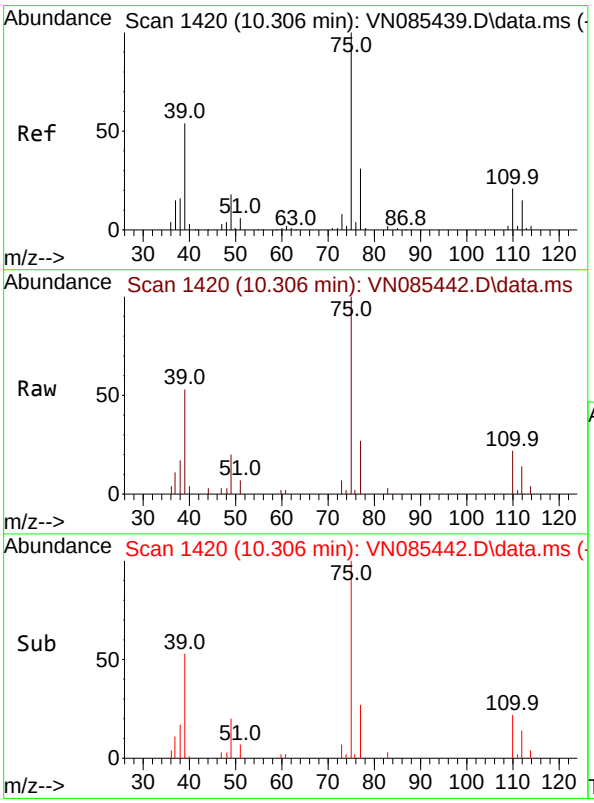
#53
t-1,3-Dichloropropene
Concen: 5.077 ug/l
RT: 10.829 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 75 Resp: 17099

Ion	Ratio	Lower	Upper
75	100		
77	32.2	23.5	35.3

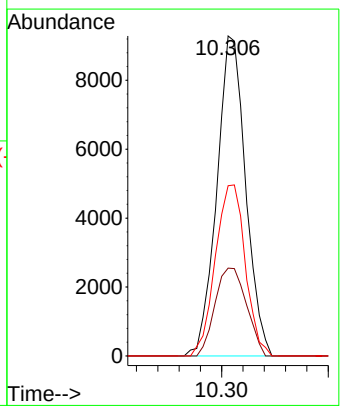


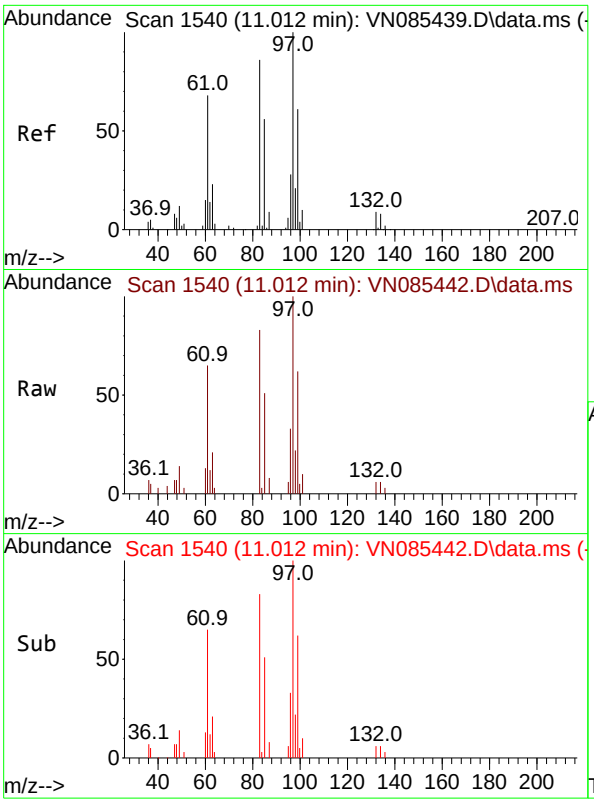


#54
cis-1,3-Dichloropropene
Concen: 4.848 ug/l
RT: 10.306 min Scan# 1420
Delta R.T. -0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 75 Resp: 17440

Ion	Ratio	Lower	Upper
75	100		
77	27.5	25.0	37.4
39	53.2	43.1	64.7



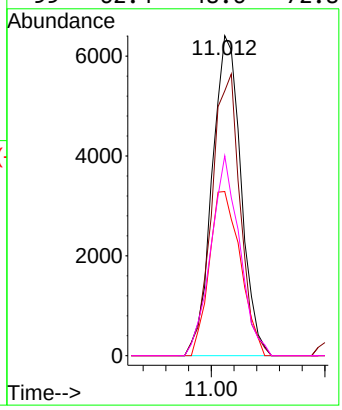


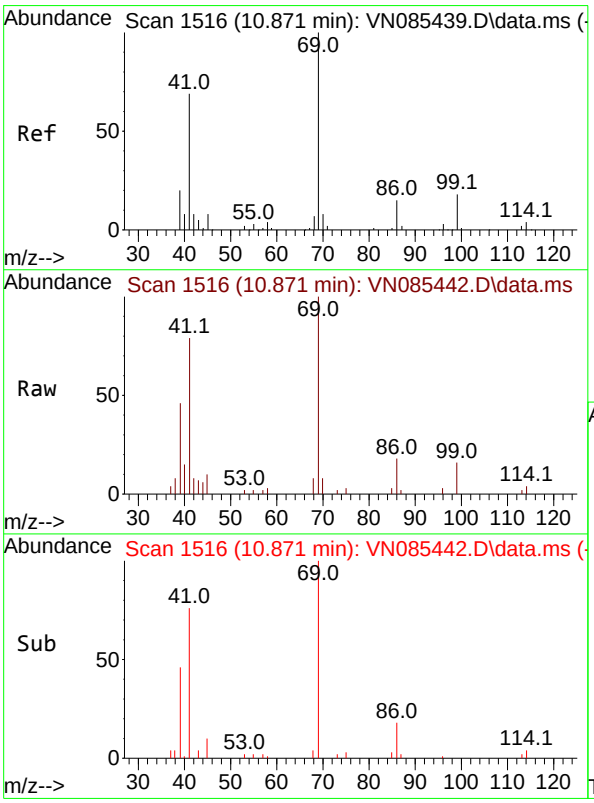
#55
1,1,2-Trichloroethane
Concen: 5.197 ug/l
RT: 11.012 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 97 Resp: 11311

Ion	Ratio	Lower	Upper
97	100		
83	82.7	69.0	103.6
85	51.3	44.6	66.8
99	62.4	48.6	72.8

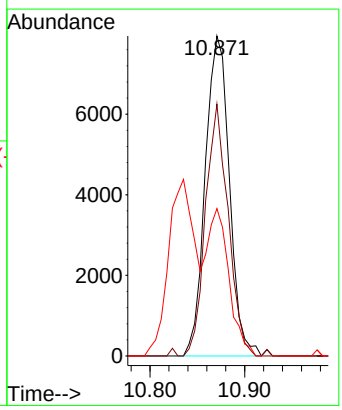


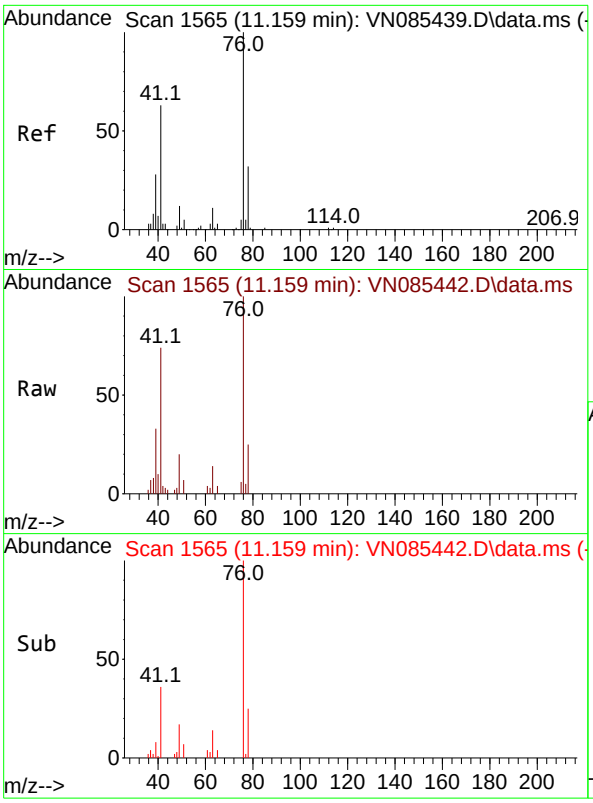


#56
Ethyl methacrylate
Concen: 5.627 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 69 Resp: 14094

Ion	Ratio	Lower	Upper
69	100		
41	73.8	54.6	82.0
39	42.6	32.4	48.6



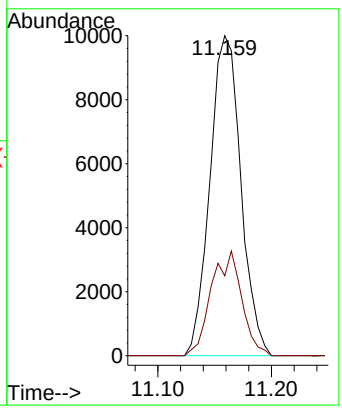


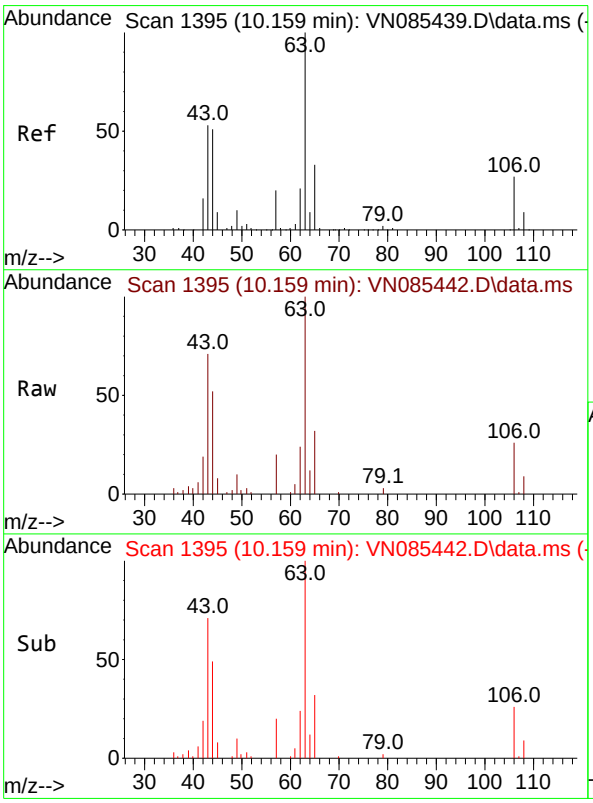
#57
1,3-Dichloropropane
Concen: 5.006 ug/l
RT: 11.159 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 76 Resp: 18945

Ion	Ratio	Lower	Upper
76	100		
78	32.2	25.6	38.4

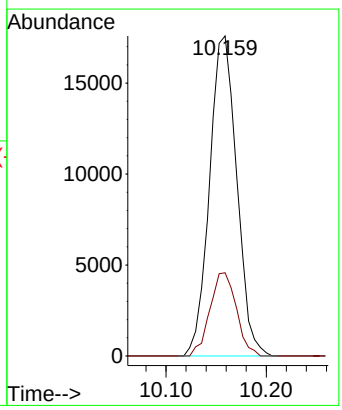


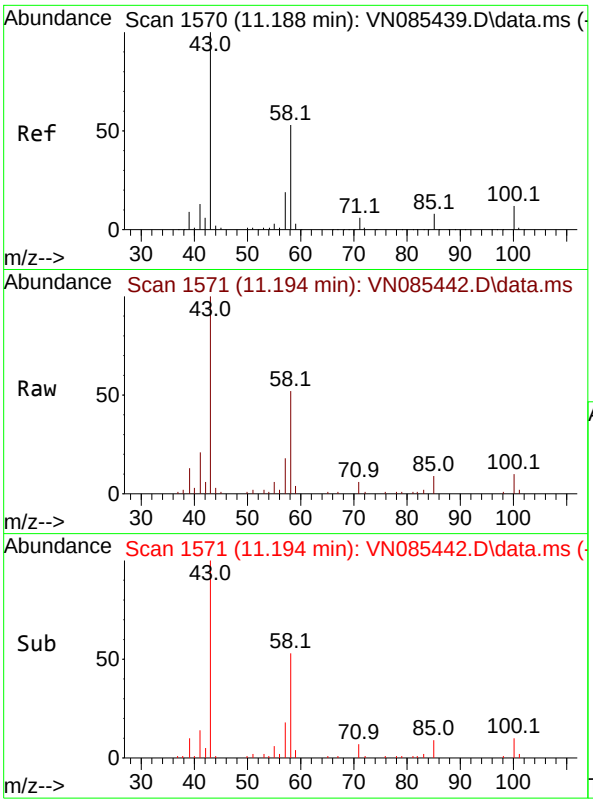


#58
2-Chloroethyl Vinyl ether
Concen: 24.047 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 63 Resp: 33210

Ion	Ratio	Lower	Upper
63	100		
106	25.2	21.6	32.4



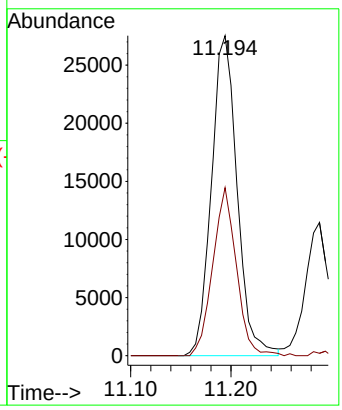


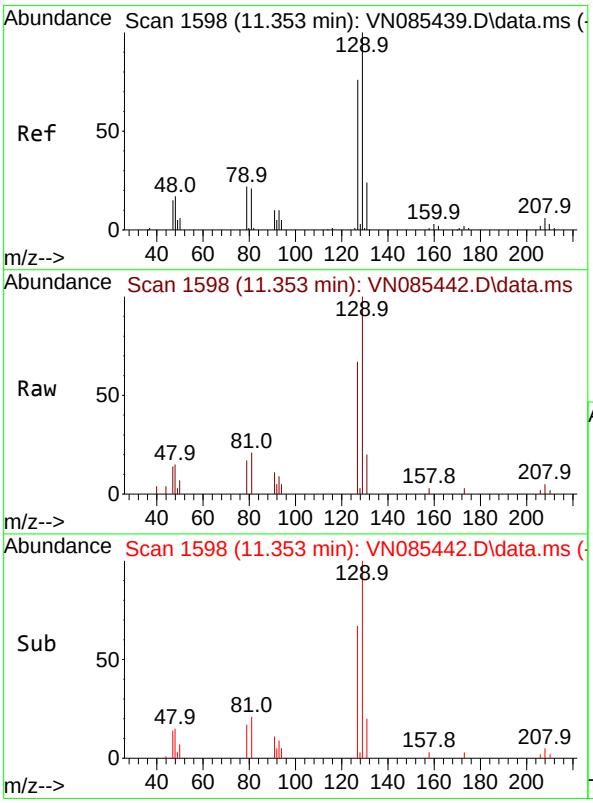
#59
2-Hexanone
Concen: 23.501 ug/l
RT: 11.194 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 49021

Ion	Ratio	Lower	Upper
43	100		
58	48.3	26.2	78.6

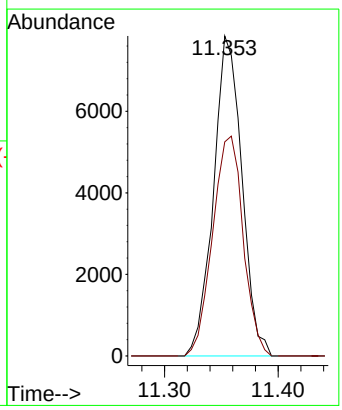


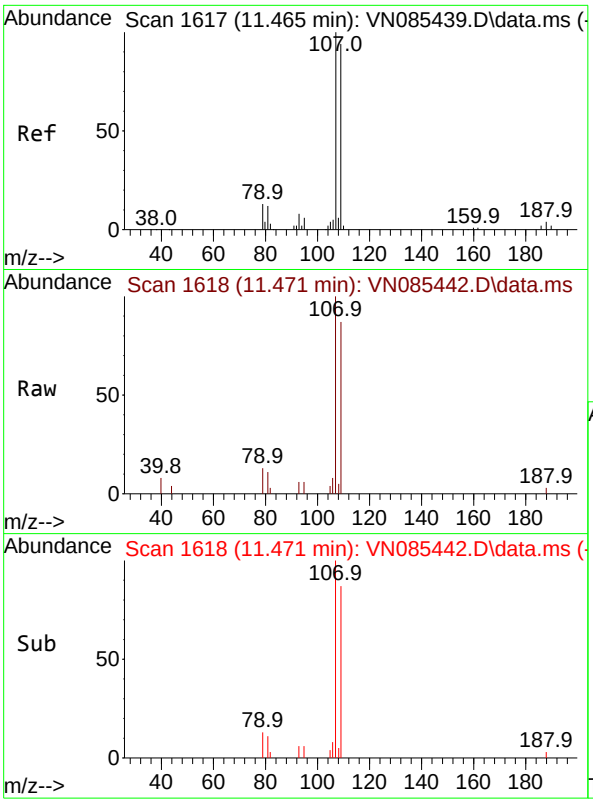


#60
Dibromochloromethane
Concen: 5.190 ug/l
RT: 11.353 min Scan# 1598
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion:129 Resp: 13635

Ion	Ratio	Lower	Upper
129	100		
127	73.9	38.6	115.8



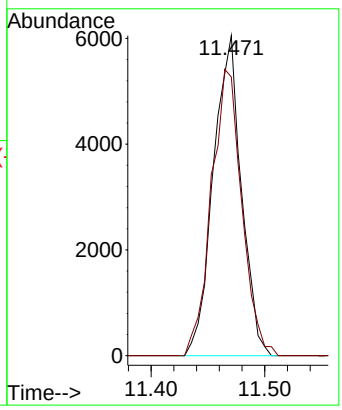


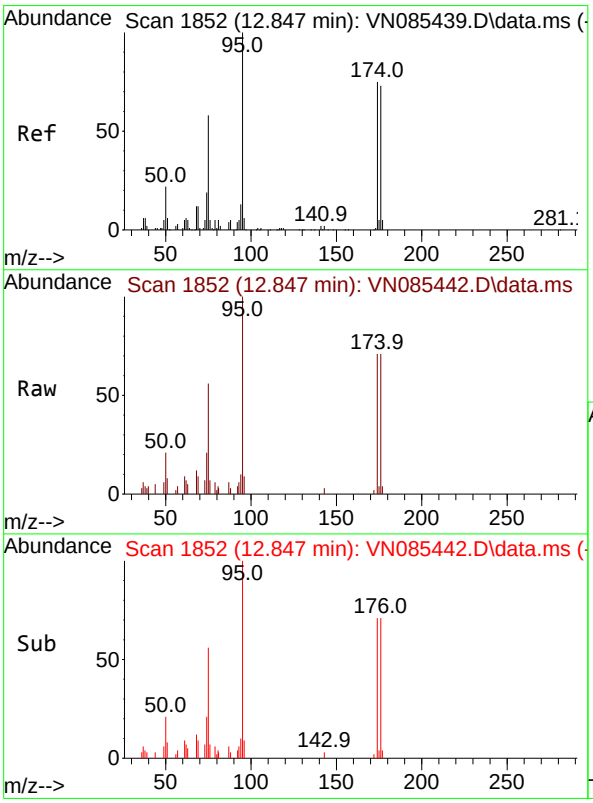
#61
1,2-Dibromoethane
Concen: 4.810 ug/l
RT: 11.471 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion:107 Resp: 10419

Ion	Ratio	Lower	Upper
107	100		
109	96.8	75.9	113.9

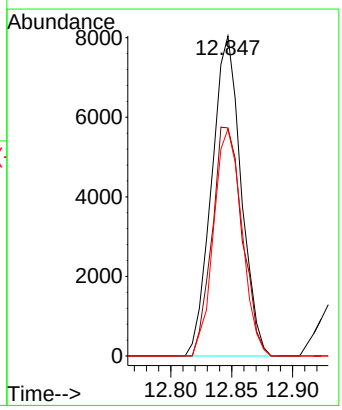


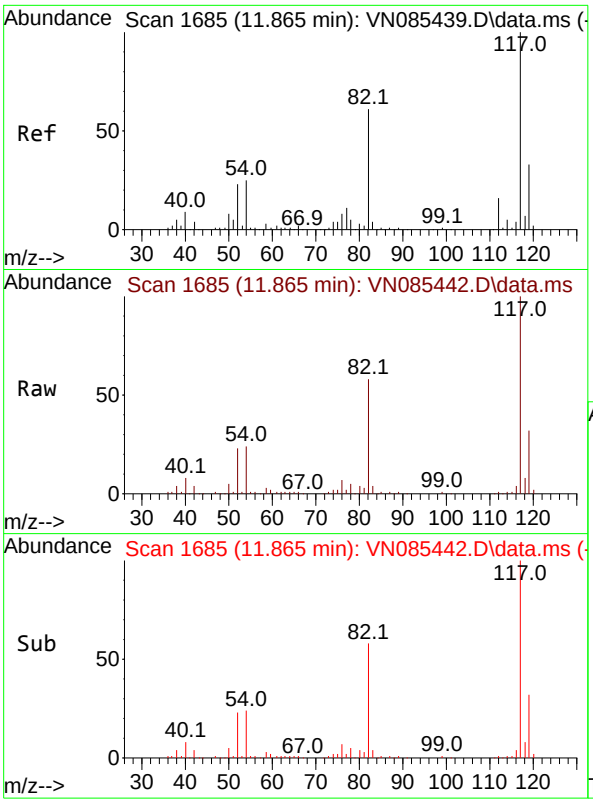


#62
4-Bromofluorobenzene
Concen: 4.943 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 95 Resp: 13520

Ion	Ratio	Lower	Upper
95	100		
174	73.2	0.0	145.0
176	68.0	0.0	142.4



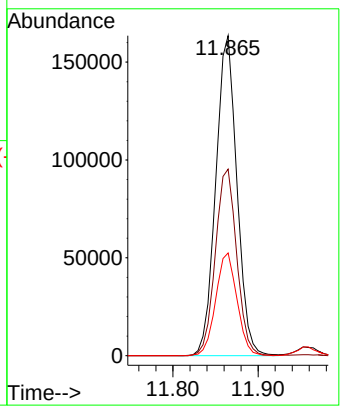


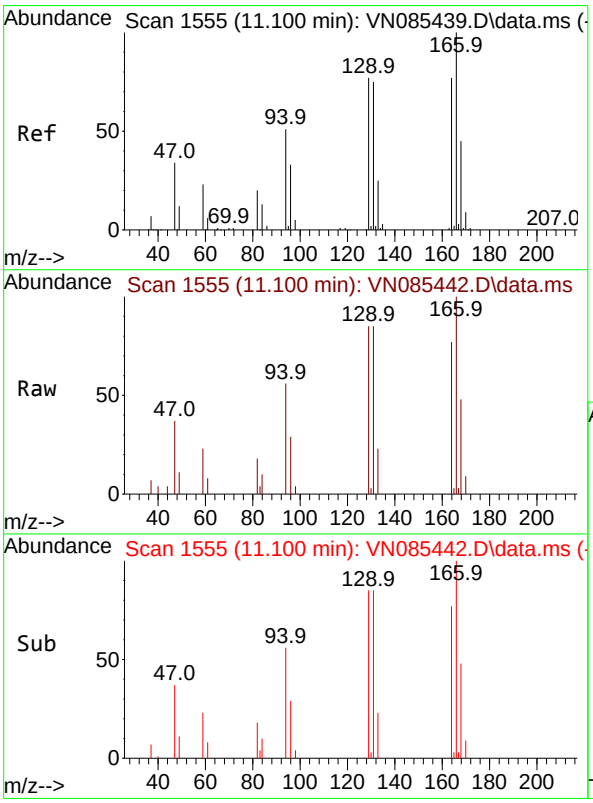
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion:117 Resp: 282203

Ion	Ratio	Lower	Upper
117	100		
82	58.3	48.6	72.8
119	32.1	26.6	39.8

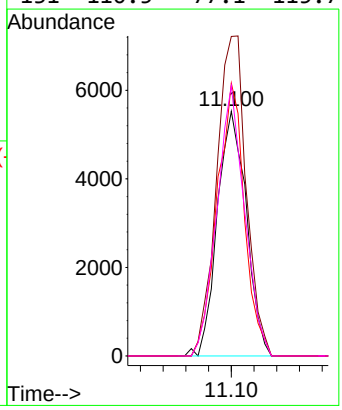


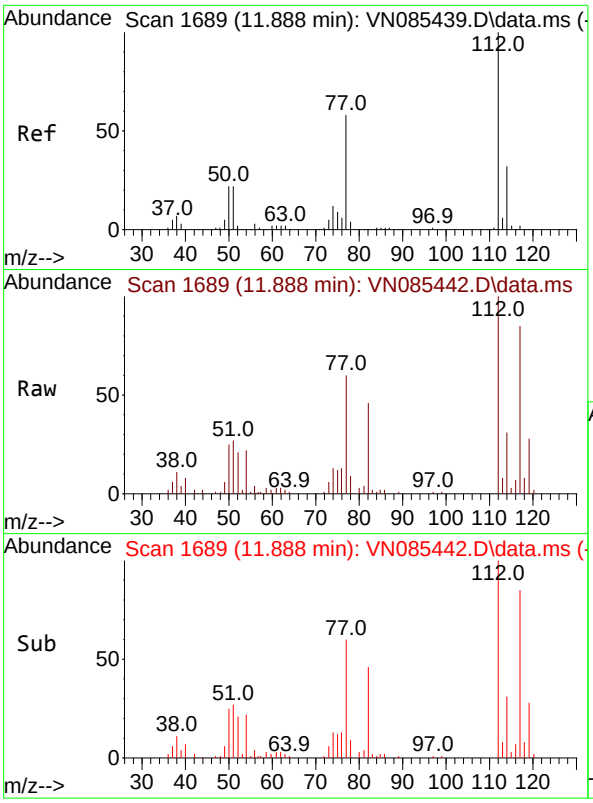


#64
Tetrachloroethene
Concen: 5.071 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion:164 Resp: 9756

Ion	Ratio	Lower	Upper
164	100		
166	130.6	103.4	155.2
129	111.5	79.2	118.8
131	110.5	77.1	115.7



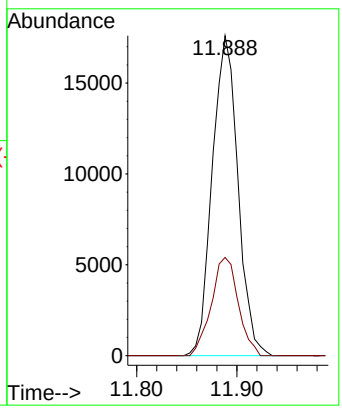


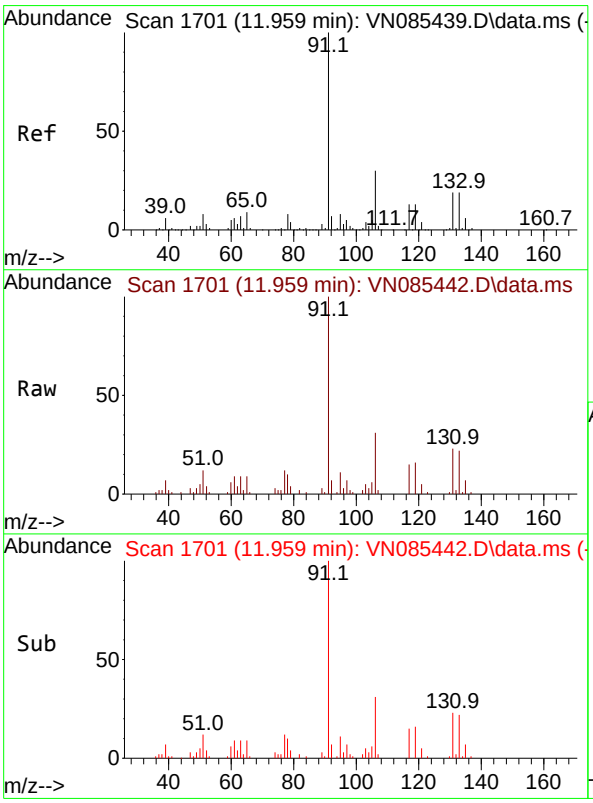
#65
Chlorobenzene
Concen: 5.065 ug/l
RT: 11.888 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion:112 Resp: 31312

Ion	Ratio	Lower	Upper
112	100		
114	30.7	25.3	37.9

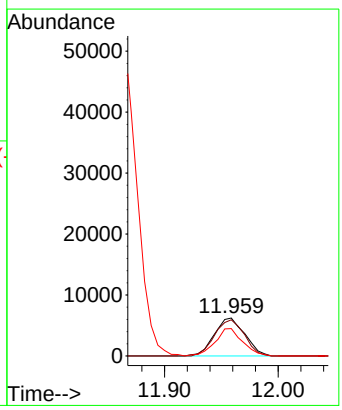


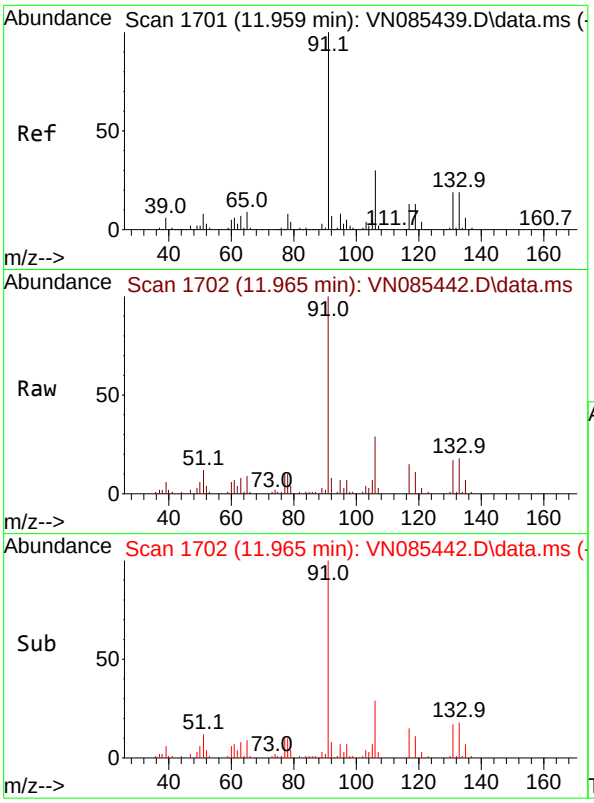


#66
1,1,1,2-Tetrachloroethane
Concen: 5.121 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion:131 Resp: 11620

Ion	Ratio	Lower	Upper
131	100		
133	92.7	47.4	142.3
119	65.0	33.1	99.5



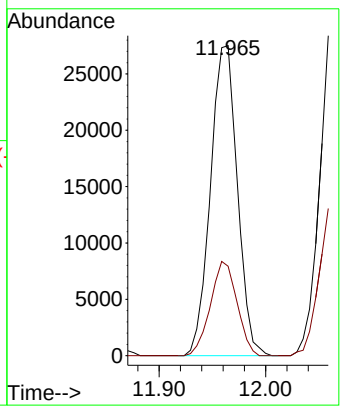


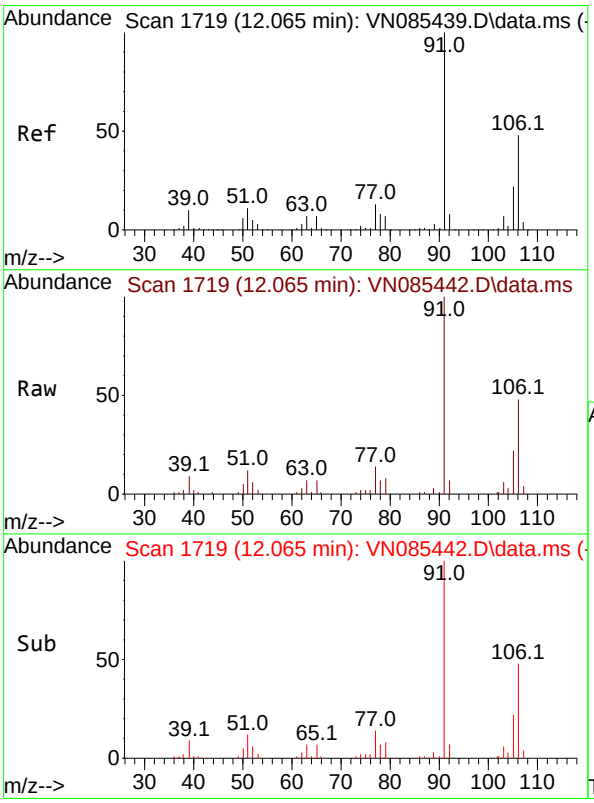
#67
Ethyl Benzene
Concen: 4.789 ug/l
RT: 11.965 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 91 Resp: 48216

Ion	Ratio	Lower	Upper
91	100		
106	28.9	23.8	35.8

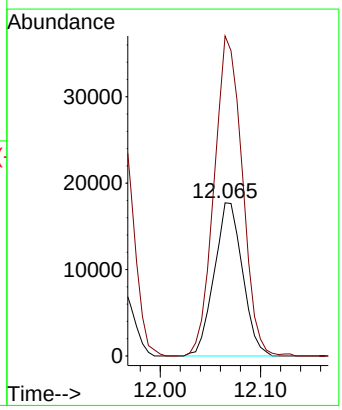


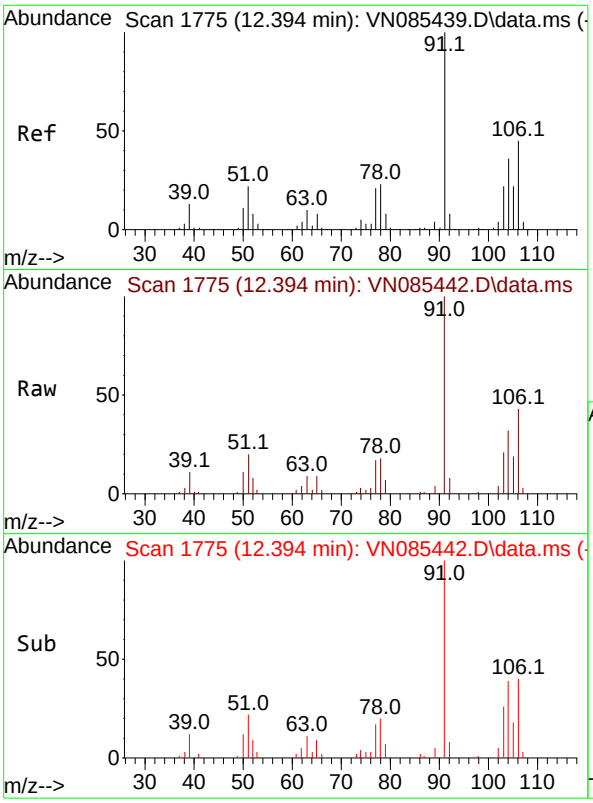


#68
m/p-Xylenes
Concen: 9.344 ug/l
RT: 12.065 min Scan# 1719
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion:106 Resp: 34771

Ion	Ratio	Lower	Upper
106	100		
91	207.9	167.7	251.5



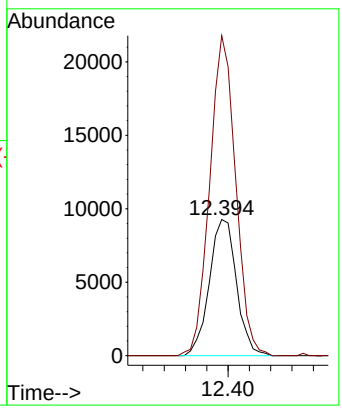


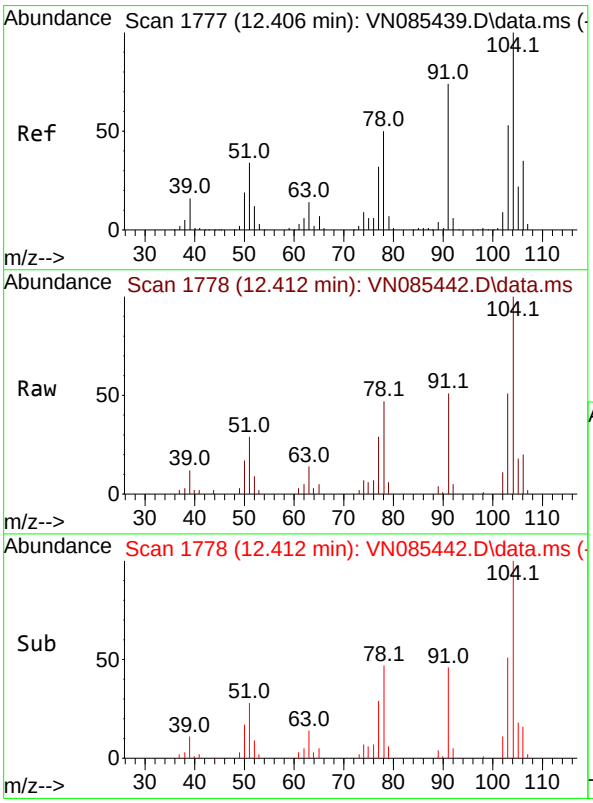
#69
o-Xylene
Concen: 4.617 ug/l
RT: 12.394 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion:106 Resp: 16419

Ion	Ratio	Lower	Upper
106	100		
91	224.0	110.4	331.2

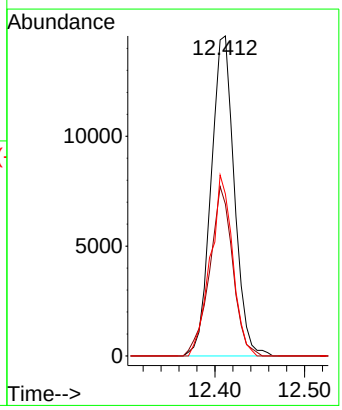


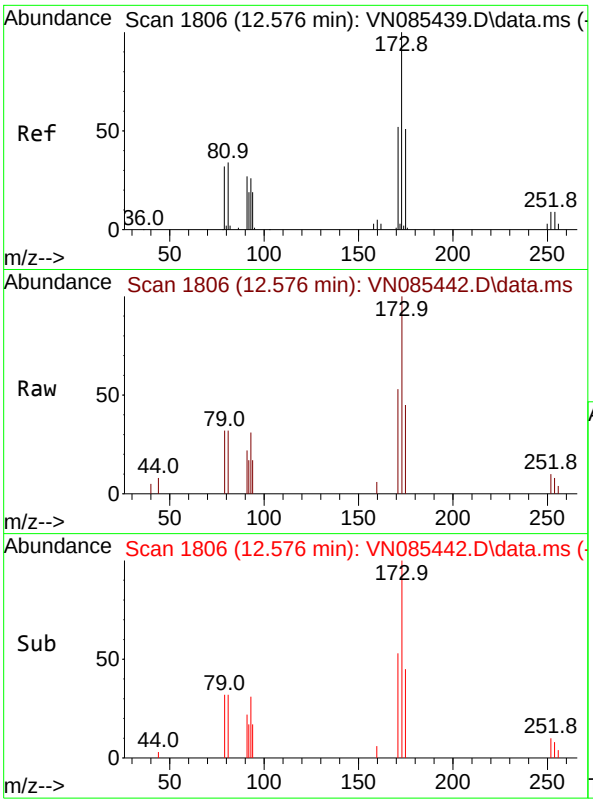


#70
Styrene
Concen: 4.454 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion:104 Resp: 26218

Ion	Ratio	Lower	Upper
104	100		
78	52.6	42.5	63.7
103	54.2	43.8	65.8



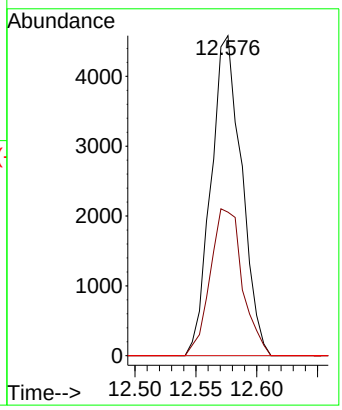


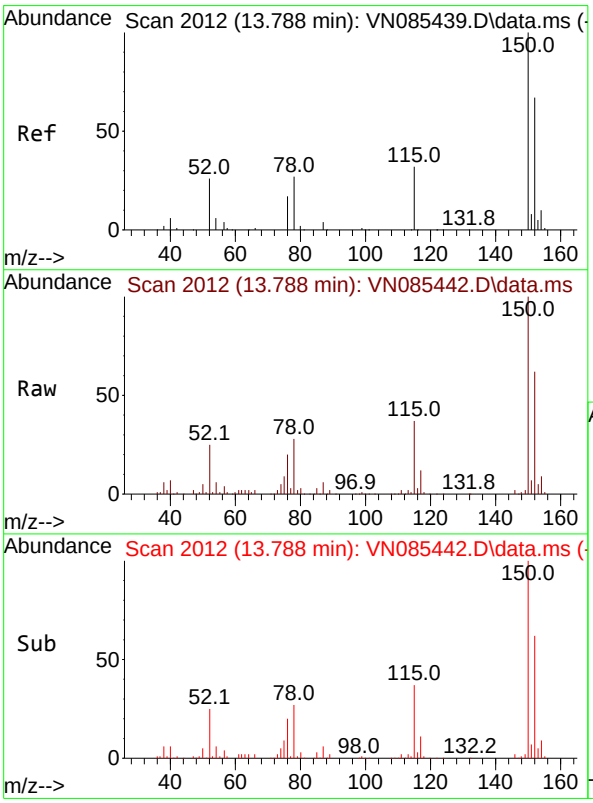
#71
Bromoform
Concen: 4.938 ug/l
RT: 12.576 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion:173 Resp: 8017

Ion	Ratio	Lower	Upper
173	100		
175	48.3	24.4	73.2
254	0.0	0.0	0.0

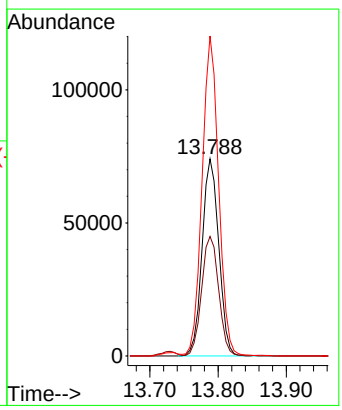


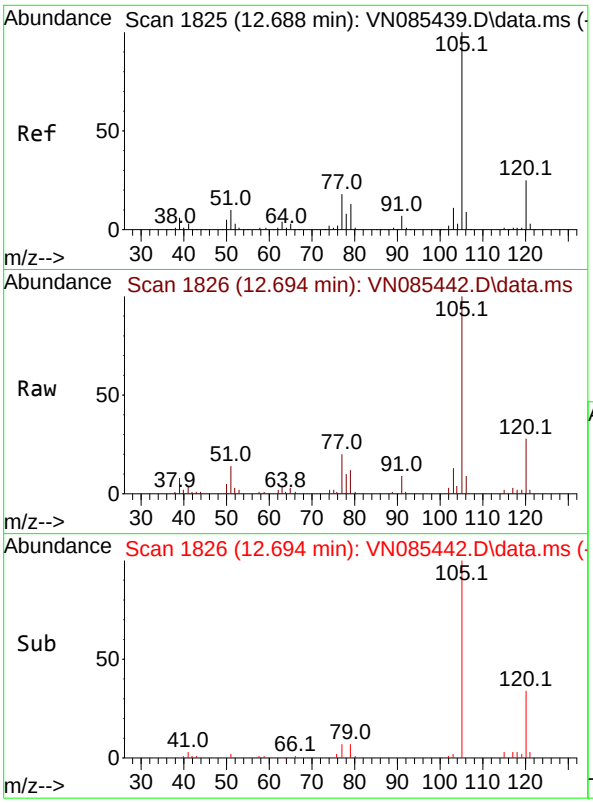


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion:152 Resp: 126086

Ion	Ratio	Lower	Upper
152	100		
115	62.0	31.1	93.3
150	160.7	0.0	343.6



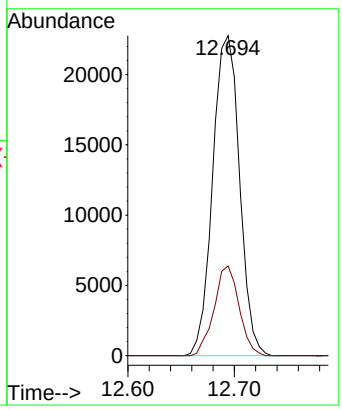


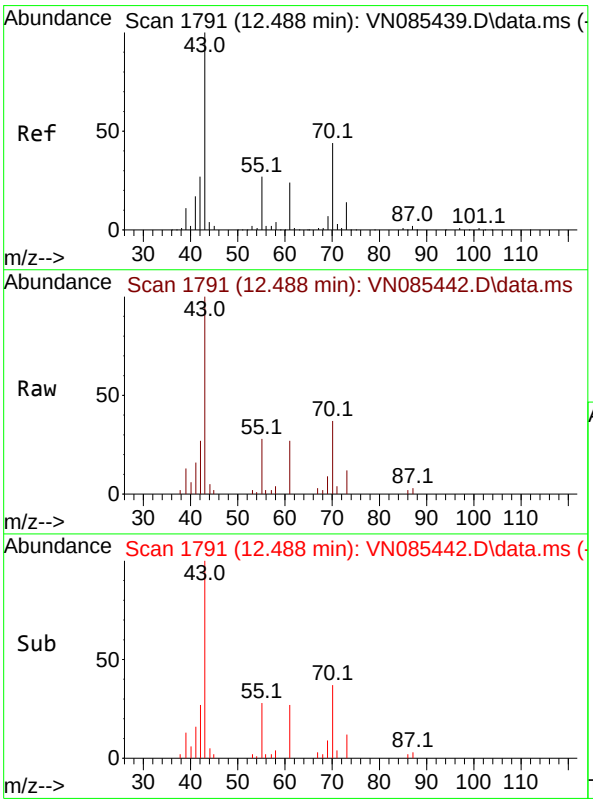
#73
Isopropylbenzene
Concen: 4.678 ug/l
RT: 12.694 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion:105 Resp: 39811

Ion	Ratio	Lower	Upper
105	100		
120	26.1	12.8	38.3

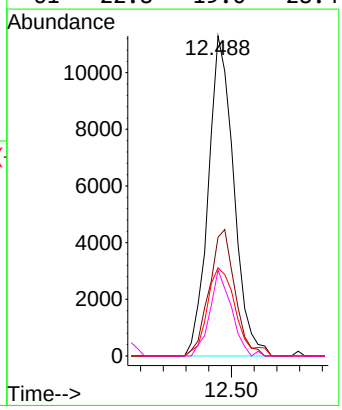


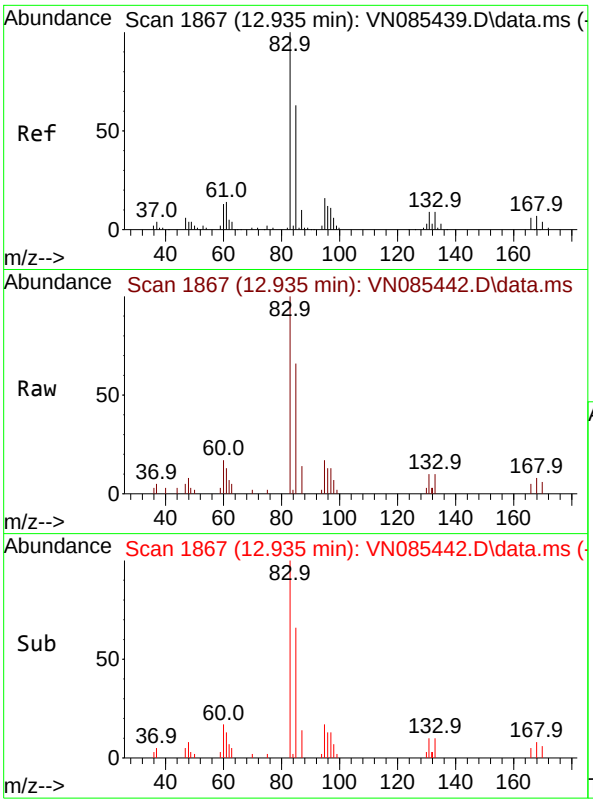


#74
N-amyl acetate
Concen: 4.595 ug/l
RT: 12.488 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 43 Resp: 17577

Ion	Ratio	Lower	Upper
43	100		
70	39.5	34.0	51.0
55	30.8	21.4	32.2
61	22.8	19.0	28.4



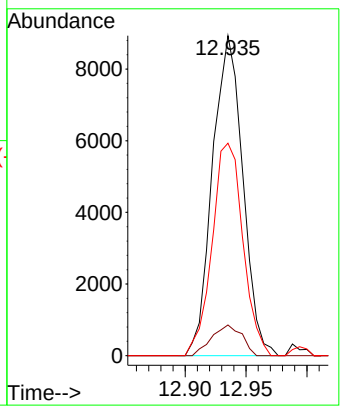


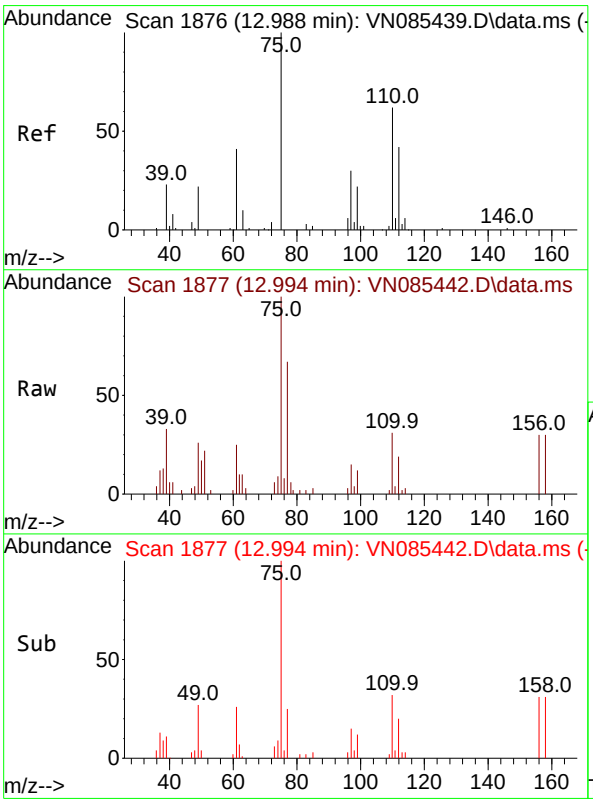
#75
1,1,2,2-Tetrachloroethane
Concen: 5.151 ug/l
RT: 12.935 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 83 Resp: 15483

Ion	Ratio	Lower	Upper
83	100		
131	9.5	4.8	14.4
85	67.5	32.2	96.6

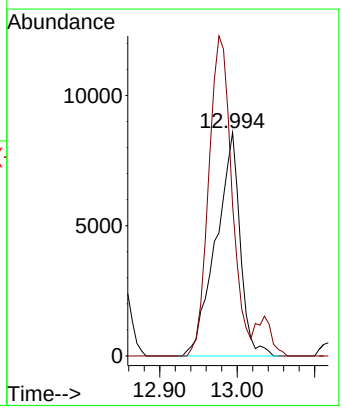


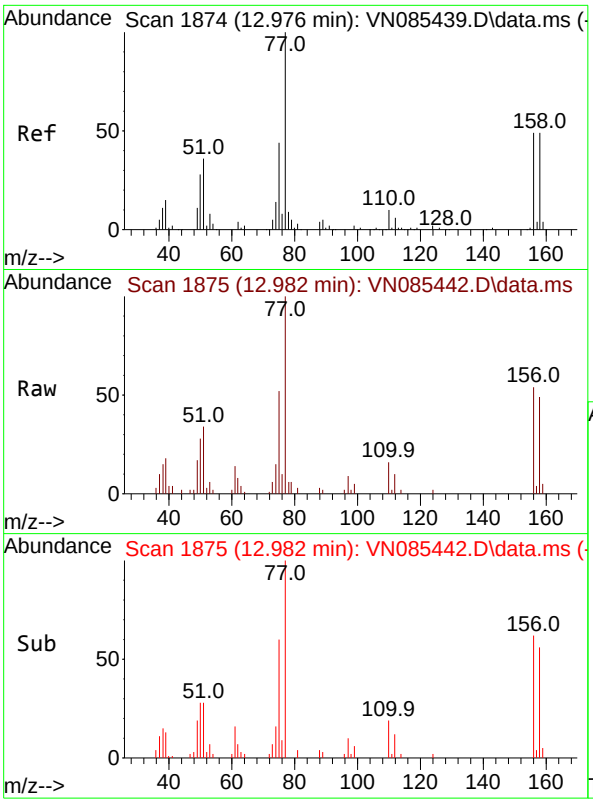


#76
1,2,3-Trichloropropane
Concen: 7.279 ug/l
RT: 12.994 min Scan# 1877
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 75 Resp: 18624

Ion	Ratio	Lower	Upper
75	100		
77	136.7	109.7	329.2



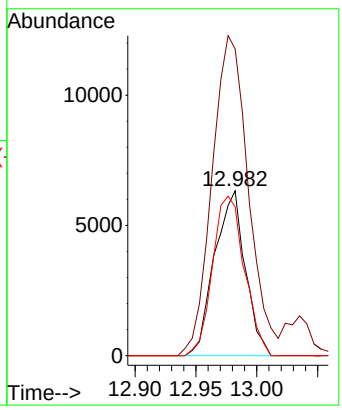


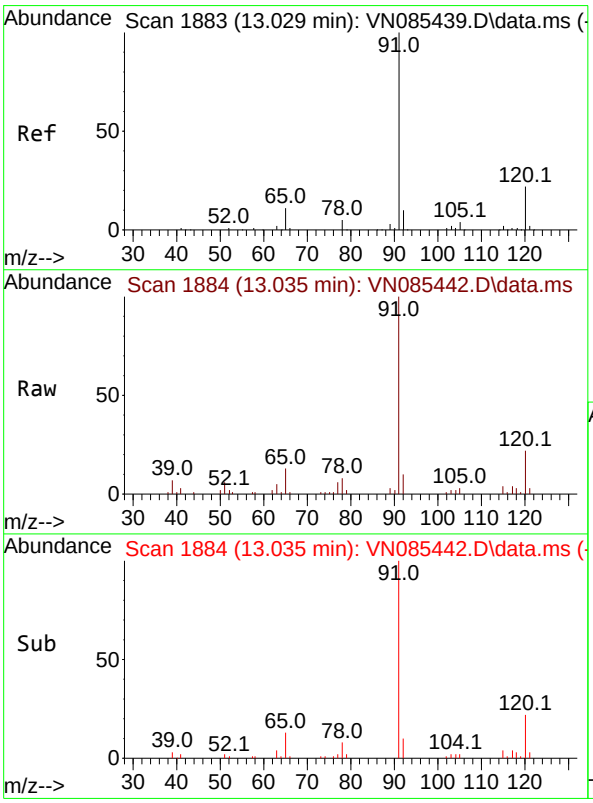
#77
Bromobenzene
Concen: 4.989 ug/l
RT: 12.982 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion:156 Resp: 11091

Ion	Ratio	Lower	Upper
156	100		
77	229.5	114.1	342.4
158	100.8	48.9	146.8

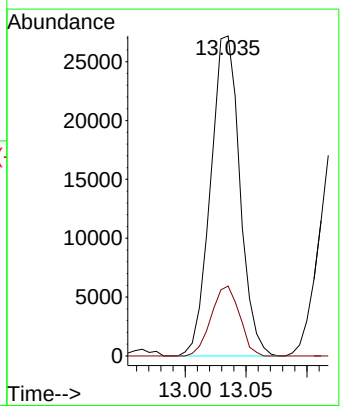


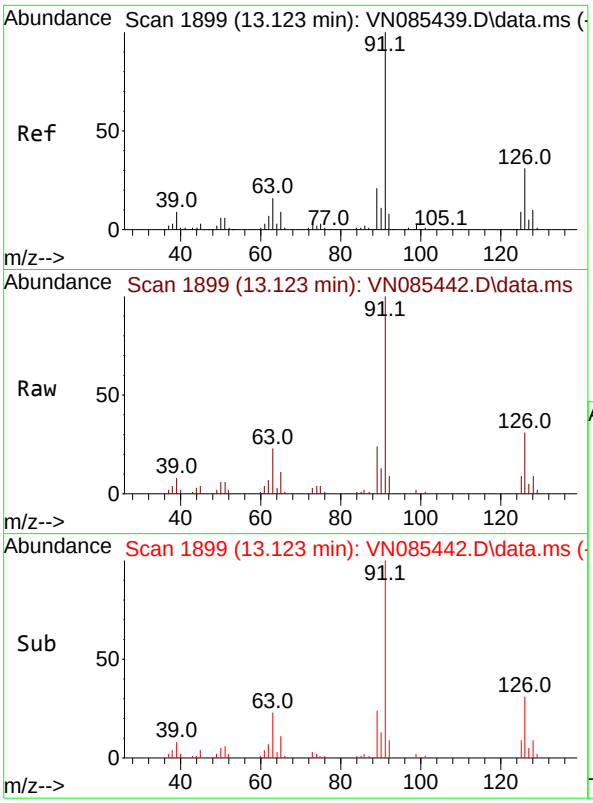


#78
n-propylbenzene
Concen: 4.512 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 91 Resp: 45450

Ion	Ratio	Lower	Upper
91	100		
120	21.1	10.9	32.6



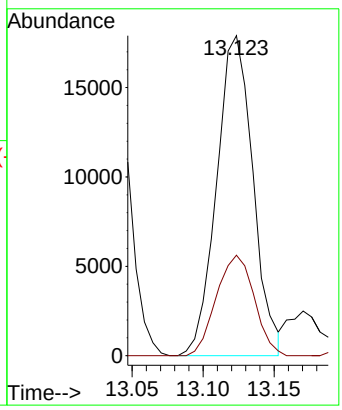


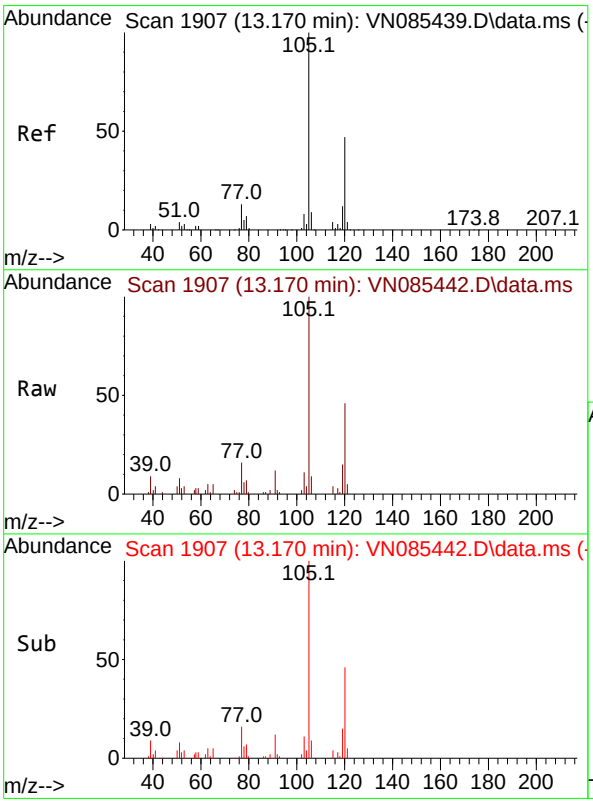
#79
2-Chlorotoluene
Concen: 4.898 ug/l
RT: 13.123 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 91 Resp: 31932

Ion	Ratio	Lower	Upper
91	100		
126	32.6	15.7	47.1

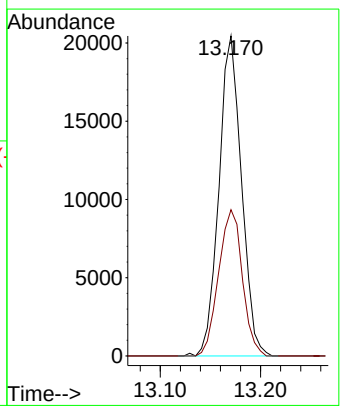


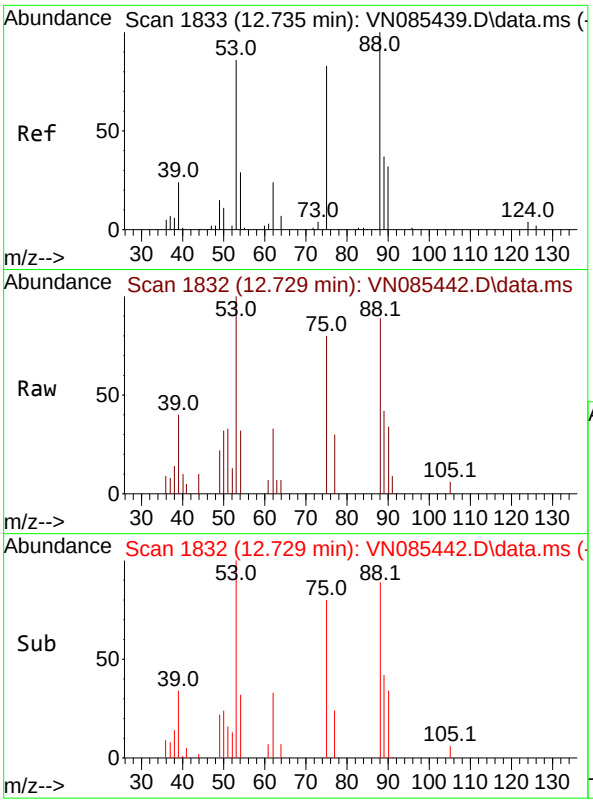


#80
1,3,5-Trimethylbenzene
Concen: 4.537 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion:105 Resp: 31891

Ion	Ratio	Lower	Upper
105	100		
120	48.1	23.9	71.7



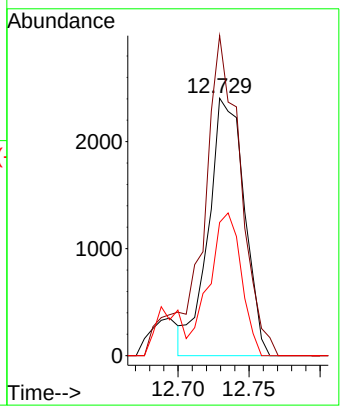


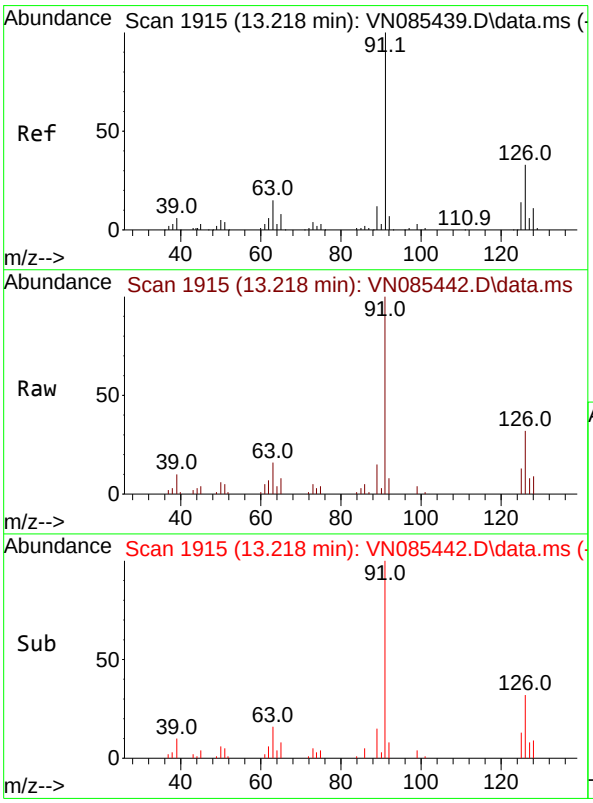
#81
trans-1,4-Dichloro-2-butene
Concen: 4.465 ug/l
RT: 12.729 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 75 Resp: 4229

Ion	Ratio	Lower	Upper
75	100		
53	132.6	95.6	143.4
89	49.7	37.0	55.6

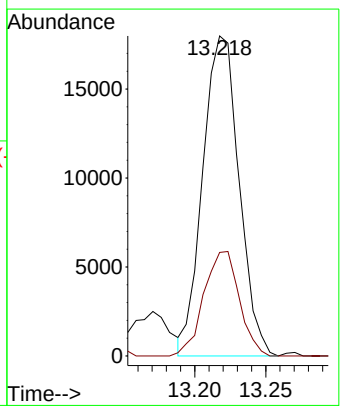


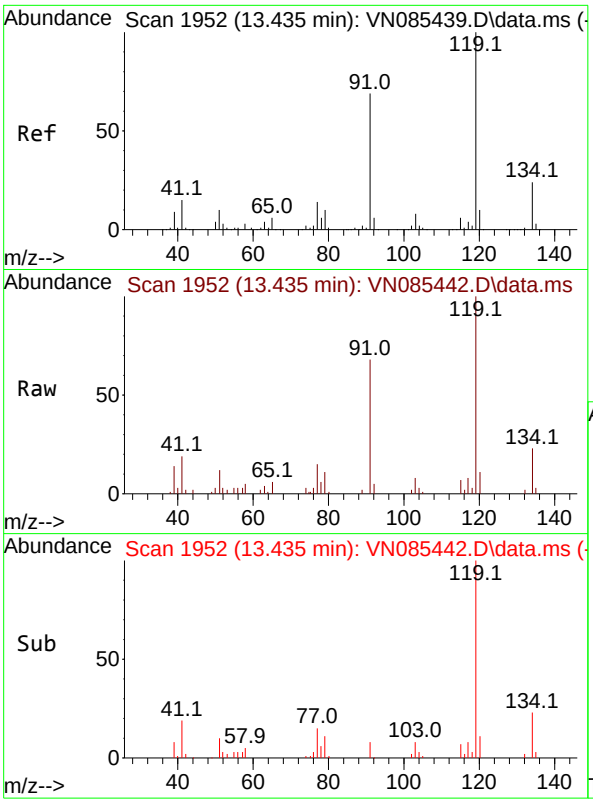


#82
4-Chlorotoluene
Concen: 4.926 ug/l
RT: 13.218 min Scan# 1915
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 91 Resp: 31976

Ion	Ratio	Lower	Upper
91	100		
126	31.9	15.9	47.7



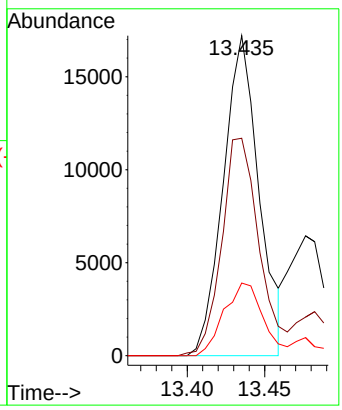


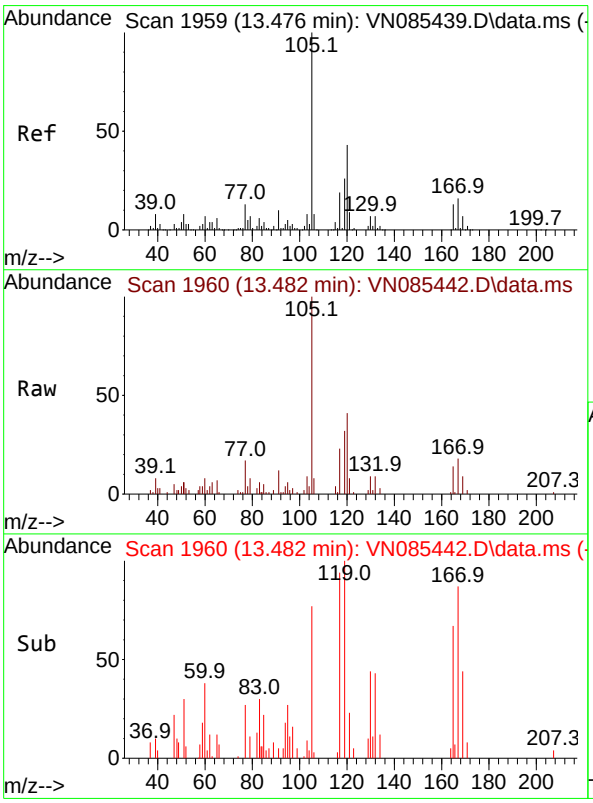
#83
tert-Butylbenzene
Concen: 4.675 ug/l
RT: 13.435 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion:119 Resp: 27597

Ion	Ratio	Lower	Upper
119	100		
91	71.1	35.1	105.3
134	24.8	12.0	36.1

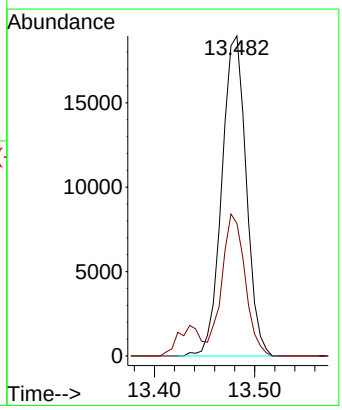


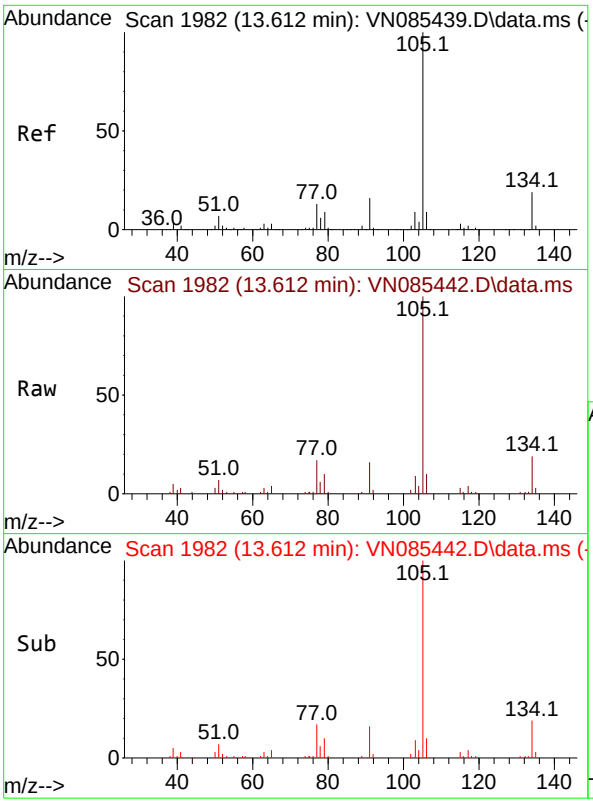


#84
1,2,4-Trimethylbenzene
Concen: 4.575 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion:105 Resp: 32054

Ion	Ratio	Lower	Upper
105	100		
120	42.0	21.6	65.0



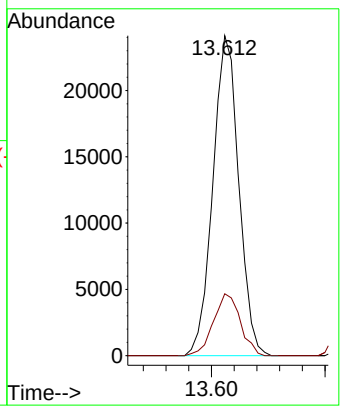


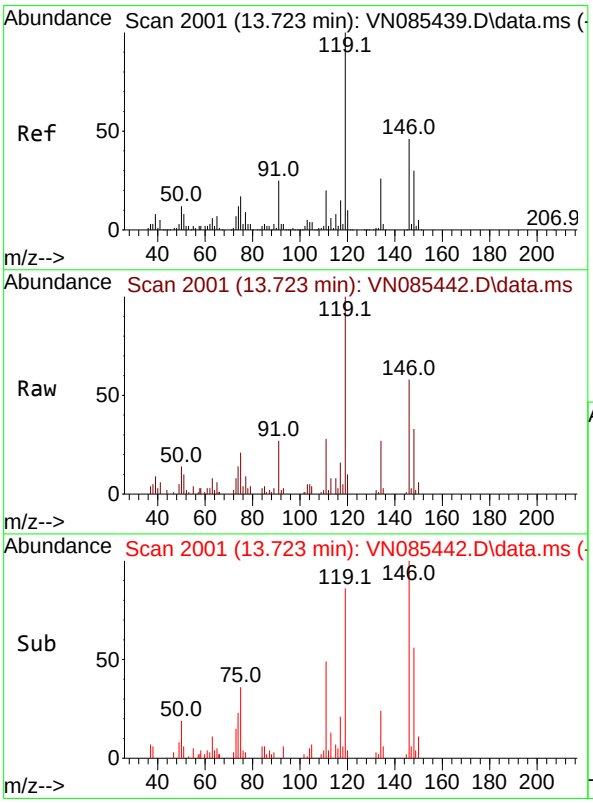
#85
sec-Butylbenzene
Concen: 4.663 ug/l
RT: 13.612 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion:105 Resp: 38148

Ion	Ratio	Lower	Upper
105	100		
134	20.1	9.7	28.9

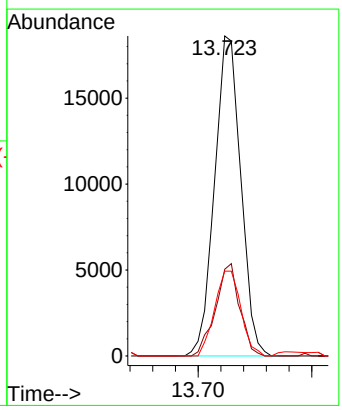


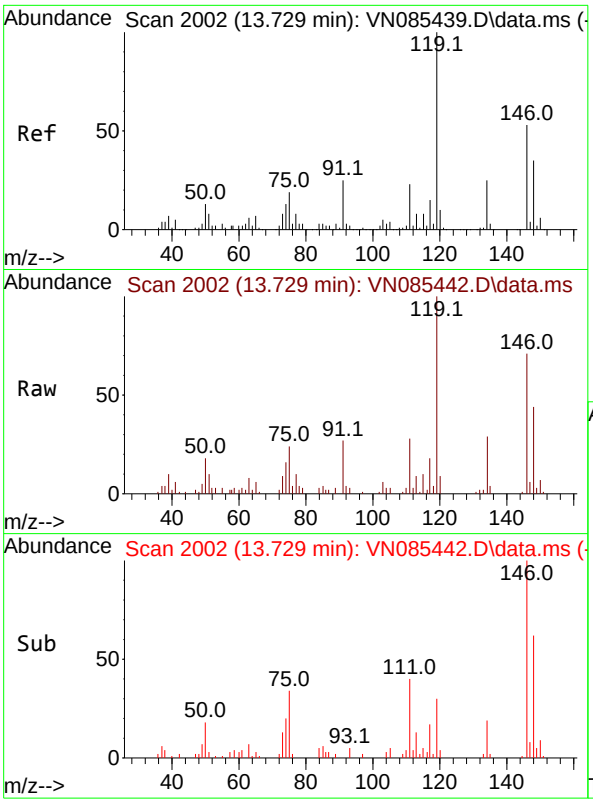


#86
p-Isopropyltoluene
Concen: 4.584 ug/l
RT: 13.723 min Scan# 2001
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion:119 Resp: 29856

Ion	Ratio	Lower	Upper
119	100		
134	26.5	12.7	38.0
91	26.5	12.7	38.1



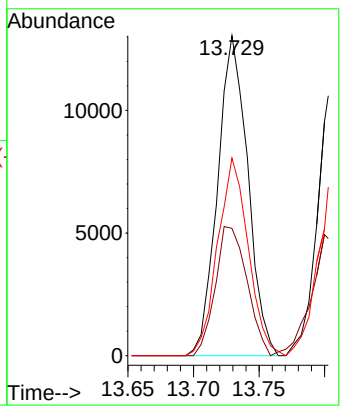


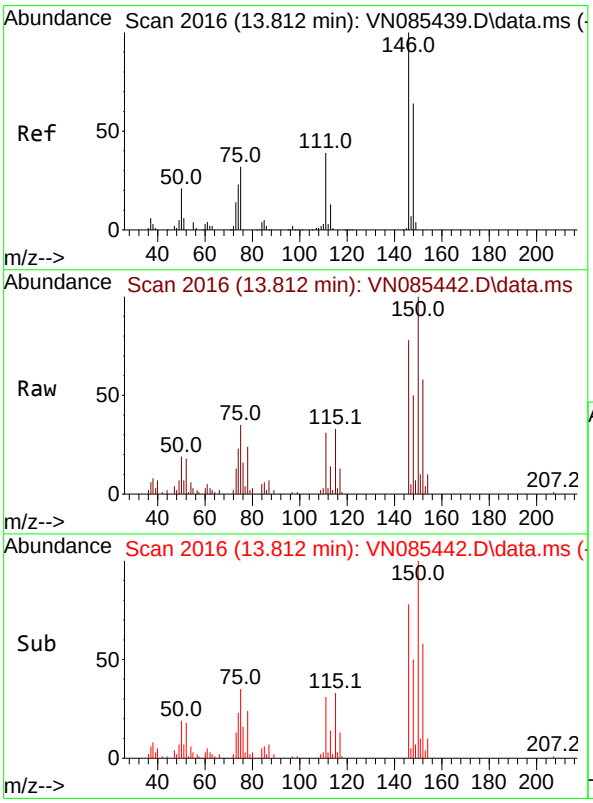
#87
1,3-Dichlorobenzene
Concen: 5.099 ug/l
RT: 13.729 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion:146 Resp: 20876

Ion	Ratio	Lower	Upper
146	100		
111	42.3	21.4	64.3
148	62.7	32.3	96.9

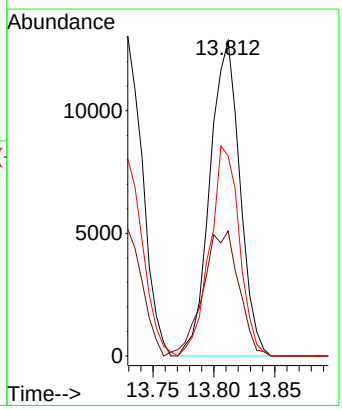


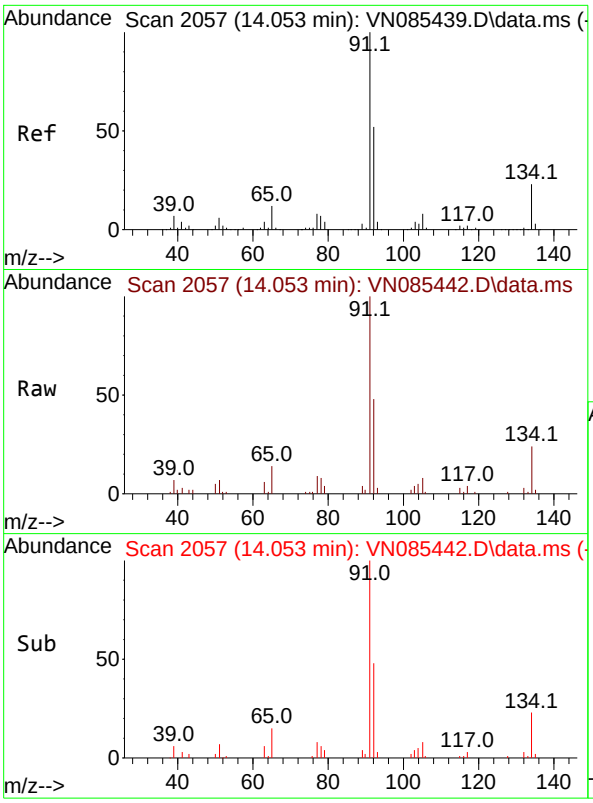


#88
1,4-Dichlorobenzene
Concen: 5.179 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion:146 Resp: 21982

Ion	Ratio	Lower	Upper
146	100		
111	47.1	21.3	63.7
148	65.5	32.4	97.0



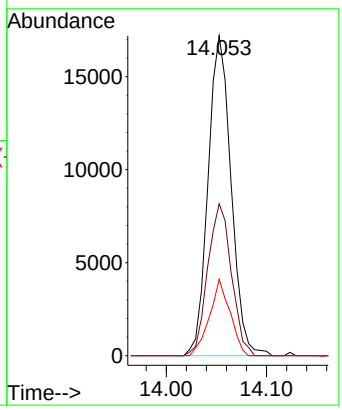


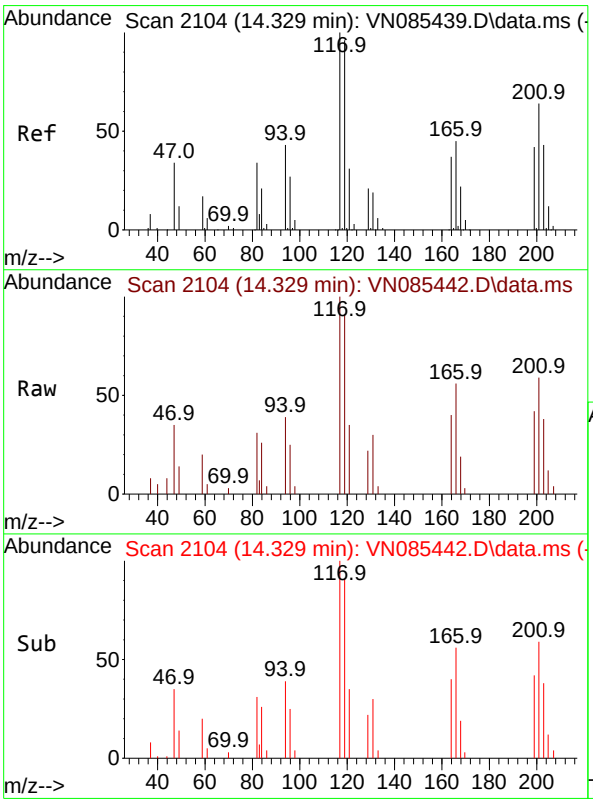
#89
n-Butylbenzene
Concen: 4.675 ug/l
RT: 14.053 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 91 Resp: 27437

Ion	Ratio	Lower	Upper
91	100		
92	48.7	25.8	77.3
134	21.4	11.7	35.1

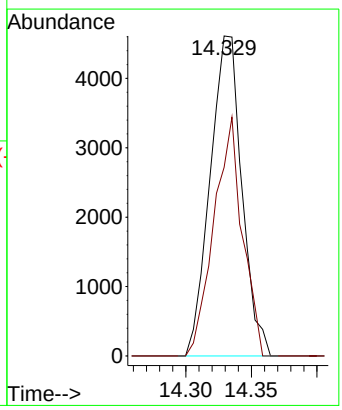


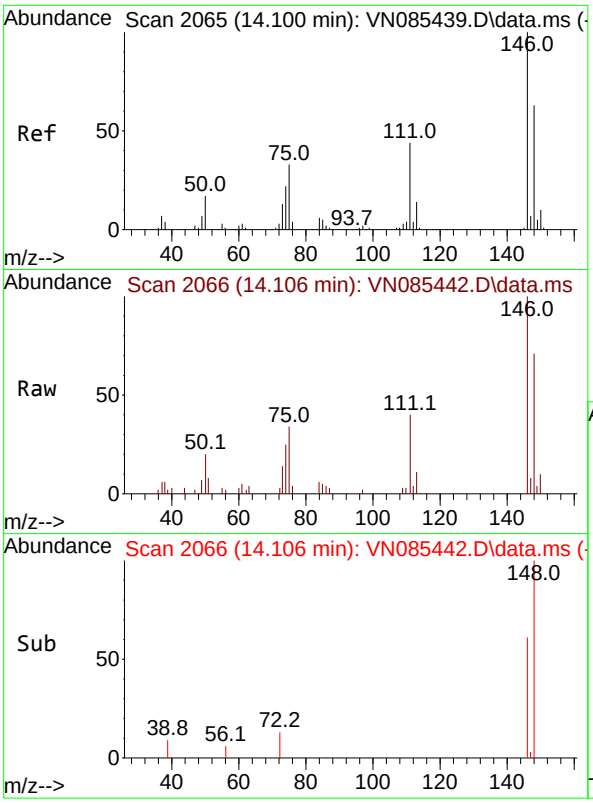


#90
Hexachloroethane
Concen: 4.987 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion:117 Resp: 7767

Ion	Ratio	Lower	Upper
117	100		
201	66.9	33.7	101.0



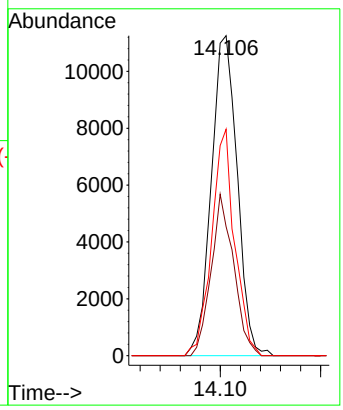


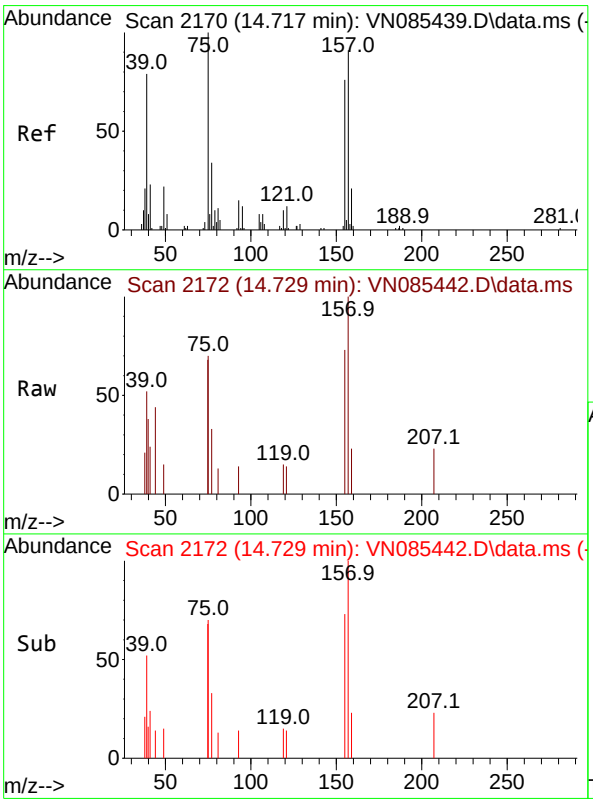
#91
1,2-Dichlorobenzene
Concen: 4.940 ug/l
RT: 14.106 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion:146 Resp: 20177

Ion	Ratio	Lower	Upper
146	100		
111	44.0	21.7	65.1
148	62.8	31.4	94.2

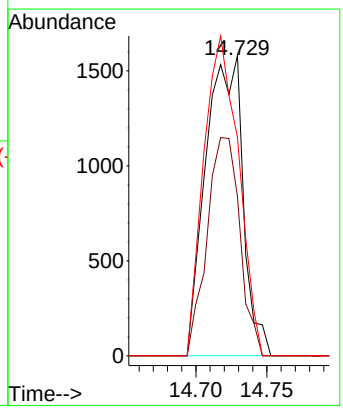


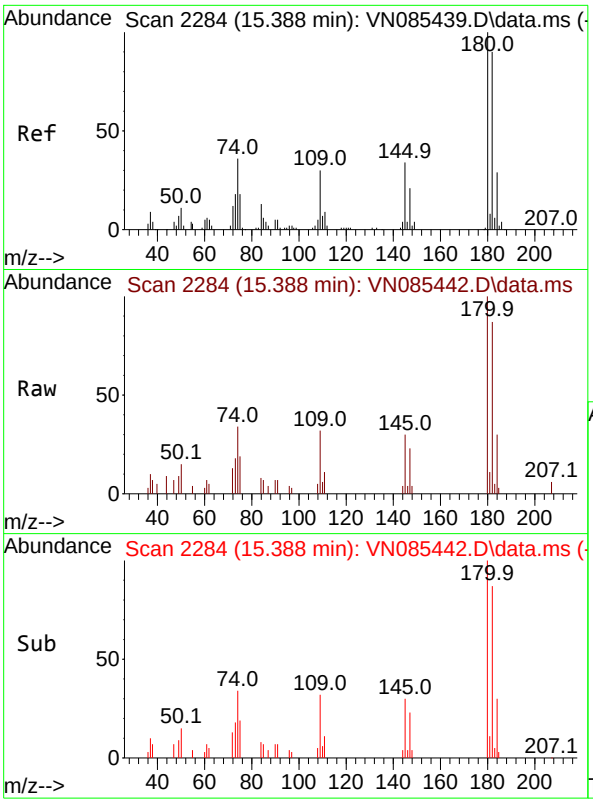


#92
1,2-Dibromo-3-Chloropropane
Concen: 5.232 ug/l
RT: 14.729 min Scan# 2172
Delta R.T. 0.012 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 75 Resp: 2872

Ion	Ratio	Lower	Upper
75	100		
155	64.2	36.4	109.2
157	99.8	45.4	136.1



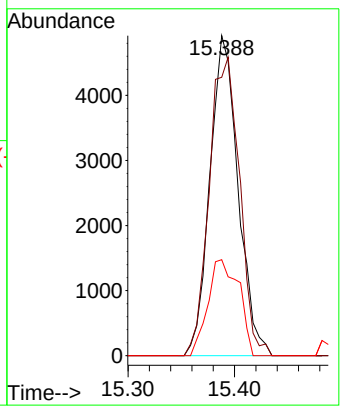


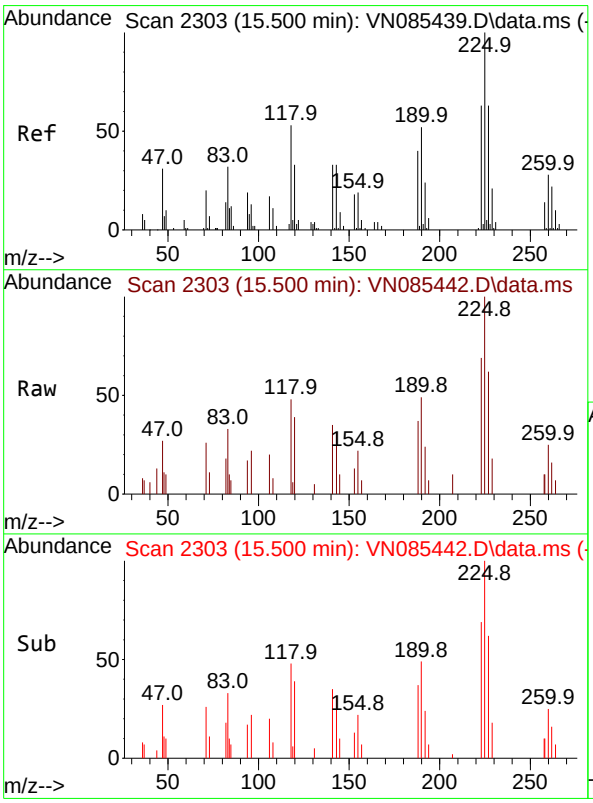
#93
1,2,4-Trichlorobenzene
Concen: 4.761 ug/l
RT: 15.388 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion:180 Resp: 9037

Ion	Ratio	Lower	Upper
180	100		
182	100.5	46.8	140.3
145	33.0	16.0	48.0

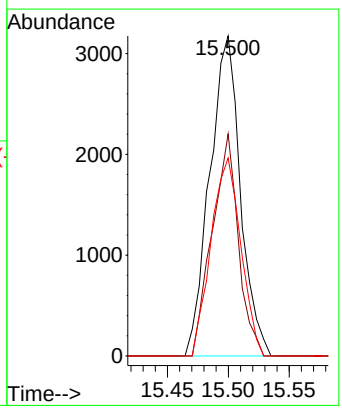


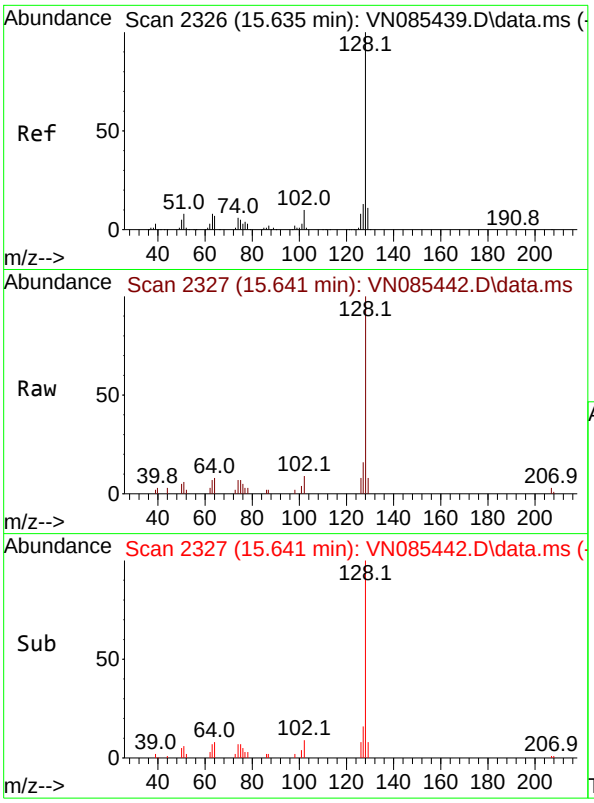


#94
Hexachlorobutadiene
Concen: 5.520 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion:225 Resp: 5563

Ion	Ratio	Lower	Upper
225	100		
223	59.2	30.7	92.1
227	60.1	30.9	92.5



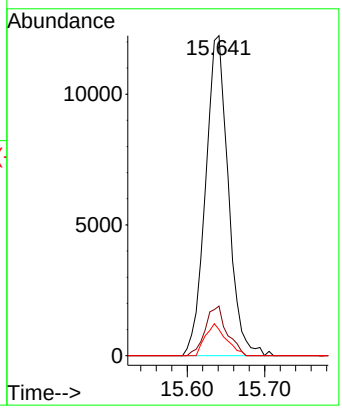


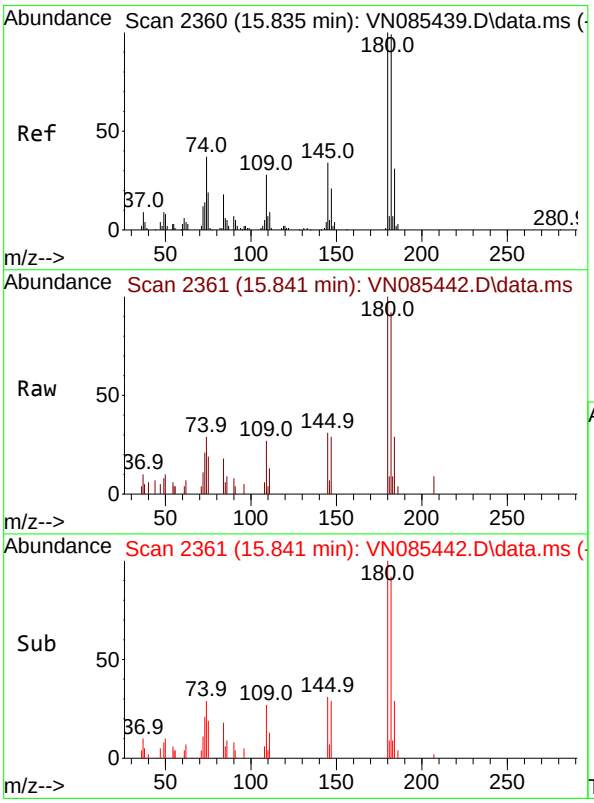
#95
Naphthalene
Concen: 4.422 ug/l
RT: 15.641 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion:128 Resp: 25047

Ion	Ratio	Lower	Upper
128	100		
127	14.7	10.6	16.0
129	9.1	8.8	13.2

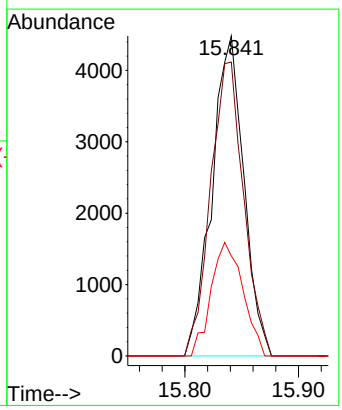




#96
1,2,3-Trichlorobenzene
Concen: 4.549 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion:180 Resp: 8737

Ion	Ratio	Lower	Upper
180	100		
182	95.6	47.4	142.2
145	35.5	16.9	50.7



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085443.D
Acq On : 14 Jan 2025 17:19
Operator : JC\MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Quant Time: Jan 15 01:46:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	8.224	168	166880	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	9.100	114	302938	50.000	ug/l		0.00
63) Chlorobenzene-d5	11.865	117	256851	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	99539	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	8.571	65	3273	1.215	ug/l		0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	2.440%#			
35) Dibromofluoromethane	8.159	113	2258	1.074	ug/l		0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	2.140%#			
50) Toluene-d8	10.565	98	7164	0.959	ug/l		0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	1.920%#			
62) 4-Bromofluorobenzene	12.841	95	2428	0.951	ug/l		0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	1.900%#			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	2.124	85	2382	1.054	ug/l		91
3) Chloromethane	2.359	50	2801	1.145	ug/l		93
4) Vinyl Chloride	2.512	62	2732	1.111	ug/l	#	81
5) Bromomethane	2.971	94	2279	1.534	ug/l		97
6) Chloroethane	3.124	64	1809	1.160	ug/l		94
7) Trichlorofluoromethane	3.512	101	3860	1.082	ug/l		88
8) Diethyl Ether	3.953	74	1526	1.238	ug/l		81
9) 1,1,2-Trichlorotrifluo...	4.359	101	1308	0.651	ug/l	#	68
10) Methyl Iodide	4.600	142	2478	1.077	ug/l	#	87
11) Tert butyl alcohol	5.512	59	1314	4.260	ug/l	#	71
12) 1,1-Dichloroethene	4.330	96	1660	0.927	ug/l	#	67
13) Acrolein	4.177	56	1510	3.586	ug/l		86
14) Allyl chloride	5.024	41	3179	1.094	ug/l	#	85
15) Acrylonitrile	5.718	53	4967	5.070	ug/l	#	70
16) Acetone	4.436	43	5102	5.862	ug/l		92
17) Carbon Disulfide	4.706	76	6601	1.197	ug/l	#	87
18) Methyl Acetate	5.030	43	2908	1.099	ug/l	#	80
19) Methyl tert-butyl Ether	5.789	73	5156	0.887	ug/l	#	87
20) Methylene Chloride	5.265	84	2190	1.016	ug/l	#	87
21) trans-1,2-Dichloroethene	5.794	96	2110	1.102	ug/l	#	66
22) Diisopropyl ether	6.677	45	5691	0.882	ug/l	#	88
23) Vinyl Acetate	6.606	43	22593	4.988	ug/l		98
24) 1,1-Dichloroethane	6.553	63	2873	0.730	ug/l	#	84
25) 2-Butanone	7.483	43	5203	4.062	ug/l	#	90
26) 2,2-Dichloropropane	7.488	77	3104	0.976	ug/l		92
27) cis-1,2-Dichloroethene	7.477	96	2185	0.969	ug/l		92
28) Bromochloromethane	7.812	49	2082	1.138	ug/l	#	89
29) Tetrahydrofuran	7.835	42	3693	4.548	ug/l		98
30) Chloroform	7.965	83	4250	1.045	ug/l	#	80
31) Cyclohexane	8.218	56	7152	2.092	ug/l	#	1
32) 1,1,1-Trichloroethane	8.165	97	3678	1.031	ug/l	#	56
36) 1,1-Dichloropropene	8.371	75	3084	1.046	ug/l	#	84
37) Ethyl Acetate	7.553	43	911	0.306	ug/l	#	88
38) Carbon Tetrachloride	8.359	117	3436	1.018	ug/l		90
39) Methylcyclohexane	9.600	83	2403	0.867	ug/l	#	87
40) Benzene	8.606	78	8480	0.957	ug/l		91

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085443.D
Acq On : 14 Jan 2025 17:19
Operator : JC\MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Quant Time: Jan 15 01:46:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	7.771	41	1458	0.941 ug/l #	76
42) 1,2-Dichloroethane	8.665	62	3131	0.938 ug/l	91
43) Isopropyl Acetate	8.682	43	4803	1.007 ug/l #	87
44) Trichloroethene	9.347	130	2133	1.034 ug/l	71
45) 1,2-Dichloropropane	9.618	63	2246	0.992 ug/l	99
46) Dibromomethane	9.706	93	1769	1.083 ug/l	92
47) Bromodichloromethane	9.882	83	2935	0.882 ug/l	90
48) Methyl methacrylate	9.677	41	1886	0.878 ug/l	96
49) 1,4-Dioxane	9.688	88	673	18.616 ug/l #	47
51) 4-Methyl-2-Pentanone	10.441	43	11523	4.163 ug/l	93
52) Toluene	10.618	92	4180	0.814 ug/l	93
53) t-1,3-Dichloropropene	10.835	75	2522	0.802 ug/l	92
54) cis-1,3-Dichloropropene	10.312	75	2725	0.811 ug/l #	83
55) 1,1,2-Trichloroethane	11.018	97	1901	0.935 ug/l	91
56) Ethyl methacrylate	10.871	69	1923	2.471 ug/l #	88
57) 1,3-Dichloropropane	11.165	76	3113	0.881 ug/l	95
58) 2-Chloroethyl Vinyl ether	10.153	63	4929	3.822 ug/l	91
59) 2-Hexanone	11.194	43	7905	4.058 ug/l	87
60) Dibromochloromethane	11.359	129	2339	0.953 ug/l	98
61) 1,2-Dibromoethane	11.465	107	2022	1.000 ug/l	90
64) Tetrachloroethene	11.106	164	1658	0.947 ug/l #	83
65) Chlorobenzene	11.888	112	5401	0.960 ug/l	93
66) 1,1,1,2-Tetrachloroethane	11.959	131	2185	1.058 ug/l #	64
67) Ethyl Benzene	11.959	91	7347	0.802 ug/l	94
68) m/p-Xylenes	12.070	106	5059	1.494 ug/l	100
69) o-Xylene	12.394	106	2478	0.766 ug/l	97
70) Styrene	12.406	104	3812	0.712 ug/l	99
71) Bromoform	12.582	173	1208	0.818 ug/l #	88
73) Isopropylbenzene	12.688	105	5506	0.820 ug/l	98
74) N-amyl acetate	12.494	43	2716	0.899 ug/l #	87
75) 1,1,2,2-Tetrachloroethane	12.935	83	2616	1.102 ug/l #	96
76) 1,2,3-Trichloropropane	12.982	75	3212	1.590 ug/l	42
77) Bromobenzene	12.976	156	1733	0.987 ug/l	97
78) n-propylbenzene	13.029	91	6424	0.808 ug/l	93
79) 2-Chlorotoluene	13.117	91	4483	0.871 ug/l	97
80) 1,3,5-Trimethylbenzene	13.165	105	4301	0.775 ug/l	90
81) trans-1,4-Dichloro-2-b...	12.735	75	695	0.929 ug/l #	76
82) 4-Chlorotoluene	13.223	91	4268	0.833 ug/l	99
83) tert-Butylbenzene	13.435	119	3753	0.805 ug/l	96
84) 1,2,4-Trimethylbenzene	13.482	105	3758	0.679 ug/l	93
85) sec-Butylbenzene	13.612	105	4614	0.714 ug/l	99
86) p-Isopropyltoluene	13.723	119	3538	0.716 ug/l	98
87) 1,3-Dichlorobenzene	13.723	146	3038	0.940 ug/l	95
88) 1,4-Dichlorobenzene	13.723	146	3038	0.907 ug/l	95
89) n-Butylbenzene	14.053	91	3527	0.761 ug/l	93
90) Hexachloroethane	14.341	117	1355	1.102 ug/l	99
91) 1,2-Dichlorobenzene	14.106	146	3515	1.090 ug/l	96
92) 1,2-Dibromo-3-Chloropr...	14.711	75	402	0.928 ug/l	74
93) 1,2,4-Trichlorobenzene	15.394	180	1310	0.874 ug/l #	80
94) Hexachlorobutadiene	15.500	225	822	1.033 ug/l	89
95) Naphthalene	15.641	128	4210	0.941 ug/l #	90
96) 1,2,3-Trichlorobenzene	15.835	180	1494	0.985 ug/l #	86

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085443.D
Acq On : 14 Jan 2025 17:19
Operator : JC\MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Quant Time: Jan 15 01:46:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration

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

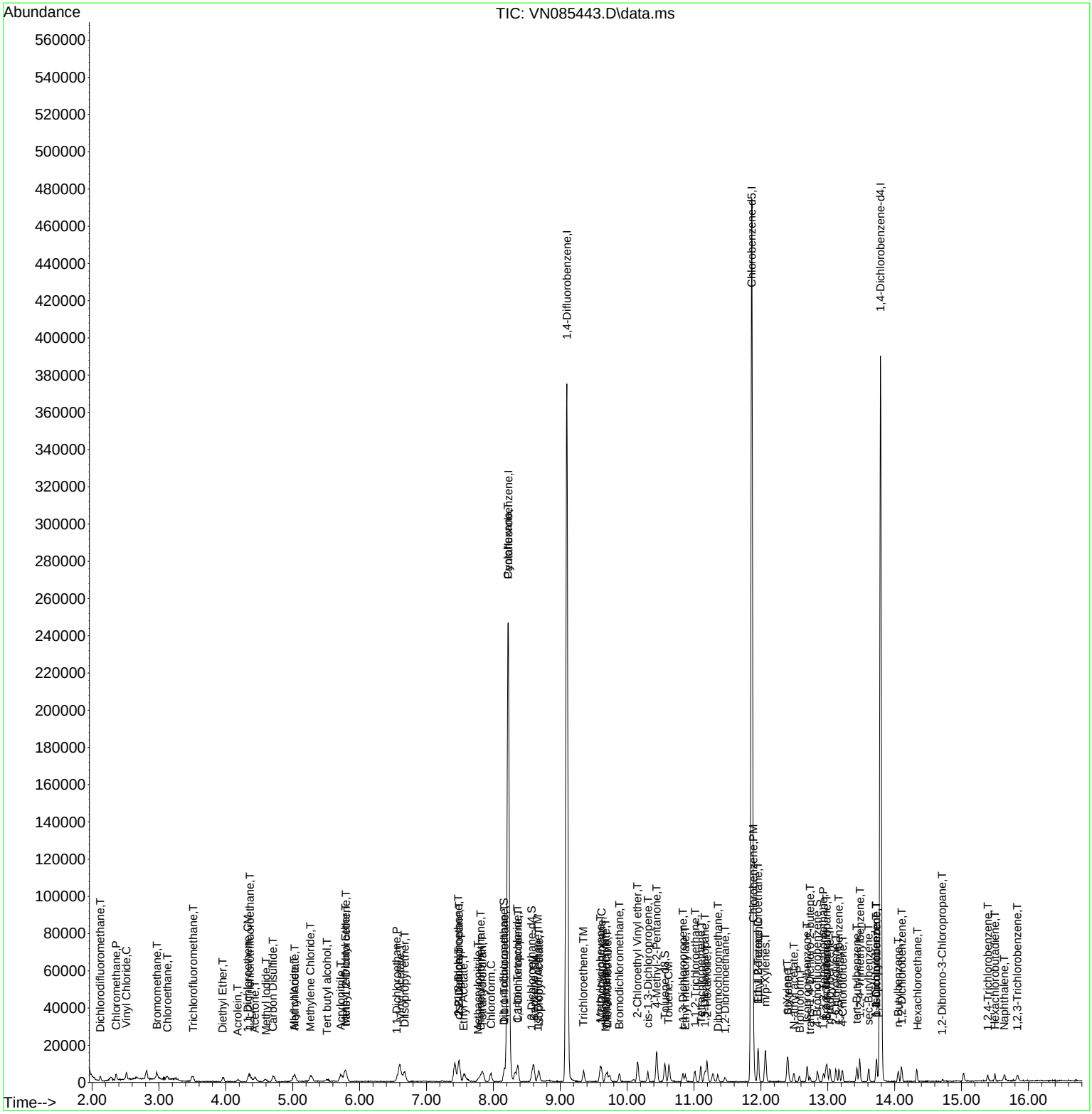
(#) = qualifier out of range (m) = manual integration (+) = signals summed

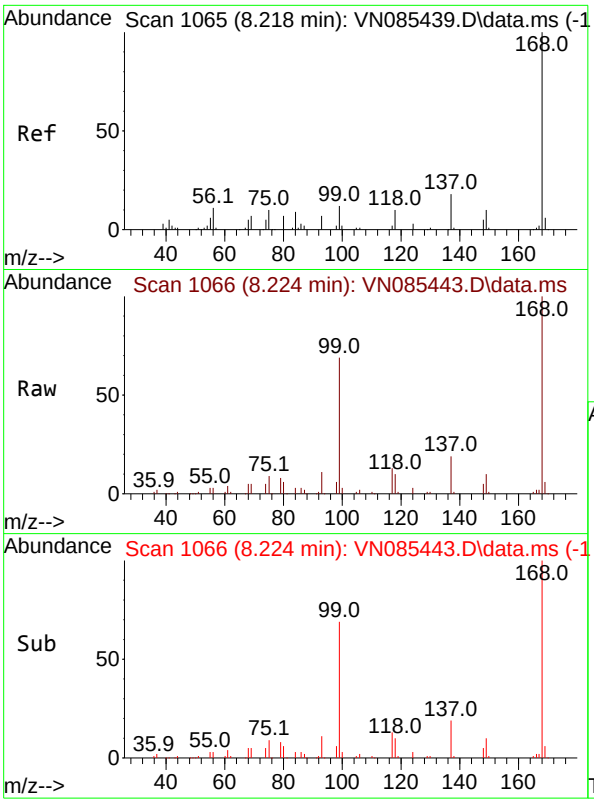
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085443.D
Acq On : 14 Jan 2025 17:19
Operator : JC\MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Quant Time: Jan 15 01:46:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration



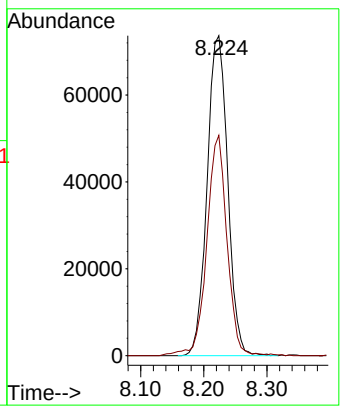


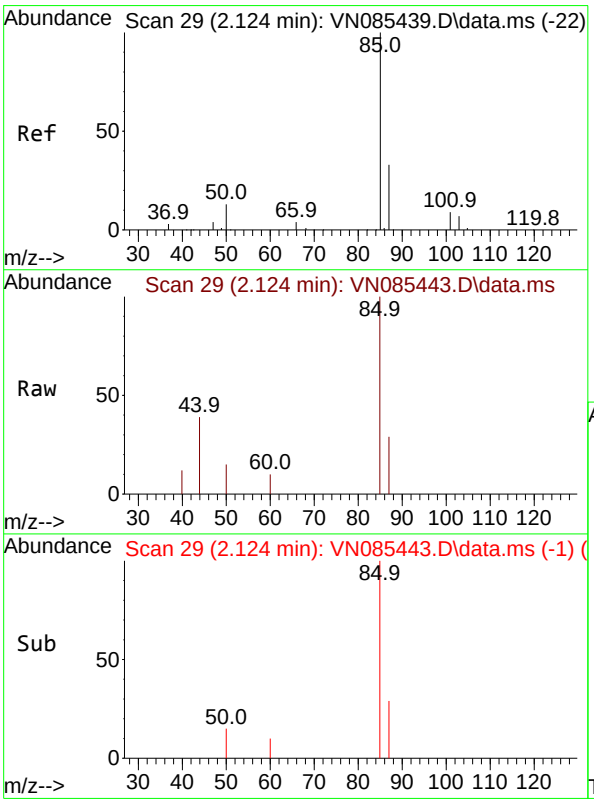
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion:168 Resp: 166880

Ion	Ratio	Lower	Upper
168	100		
99	68.6	53.6	80.4

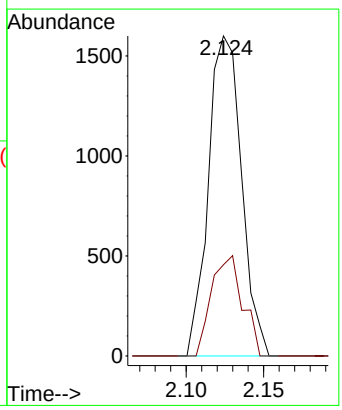


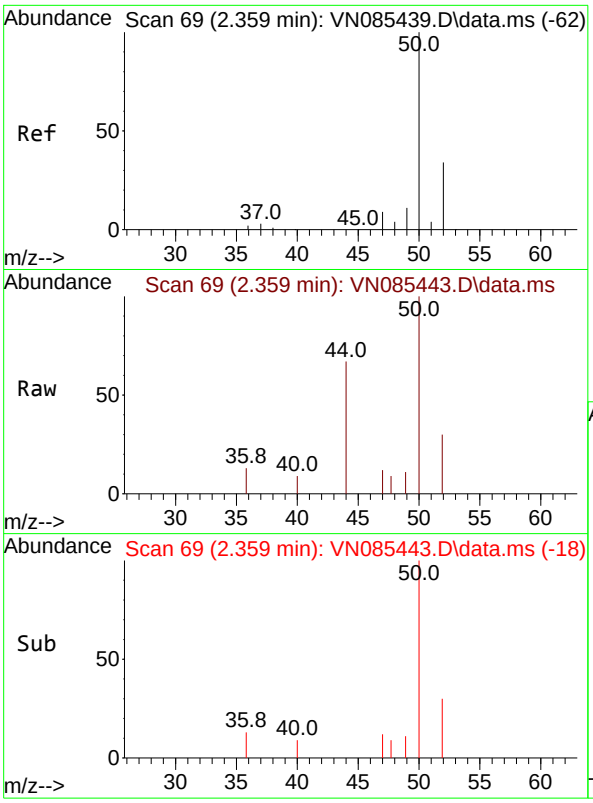


#2
Dichlorodifluoromethane
Concen: 1.054 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 85 Resp: 2382

Ion	Ratio	Lower	Upper
85	100		
87	28.5	16.7	50.1



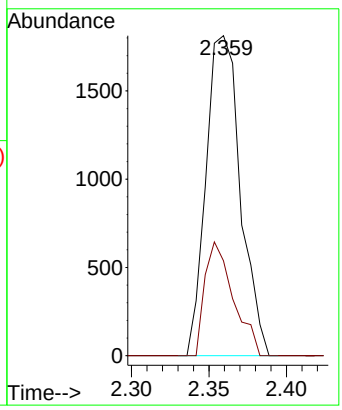


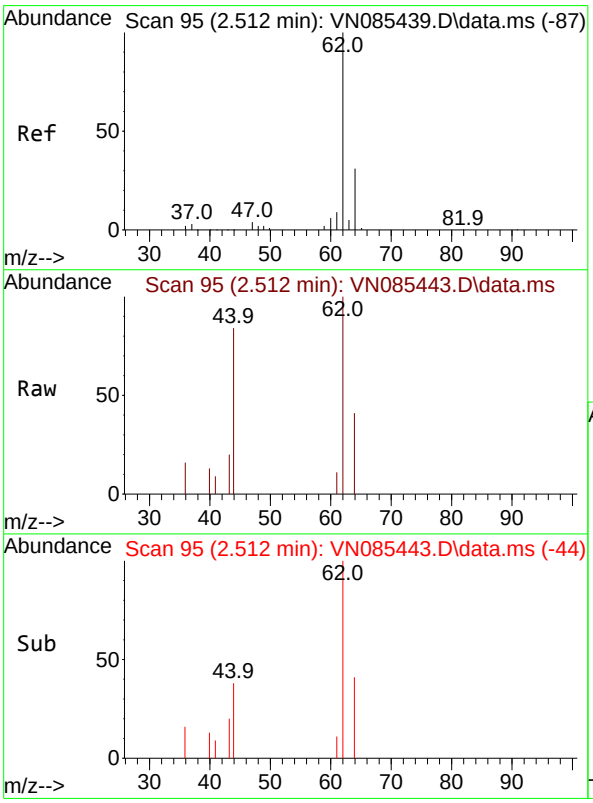
#3
Chloromethane
Concen: 1.145 ug/l
RT: 2.359 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 50 Resp: 2801

Ion	Ratio	Lower	Upper
50	100		
52	29.7	27.0	40.6

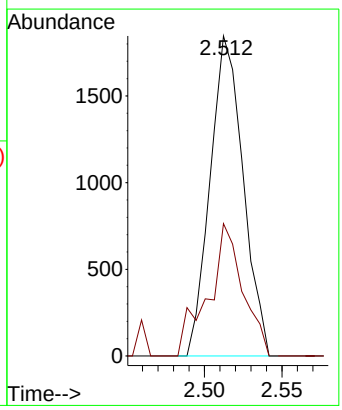


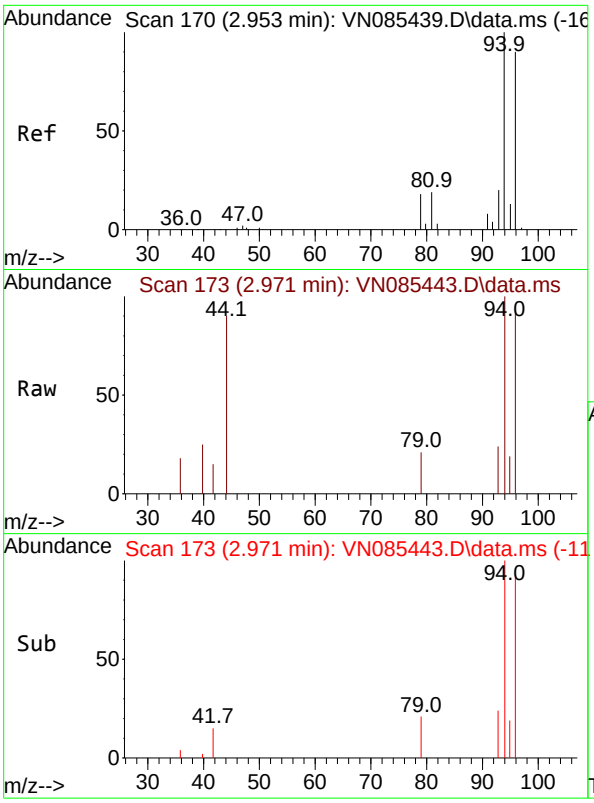


#4
Vinyl Chloride
Concen: 1.111 ug/l
RT: 2.512 min Scan# 95
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 62 Resp: 2732

Ion	Ratio	Lower	Upper
62	100		
64	41.4	24.8	37.2#



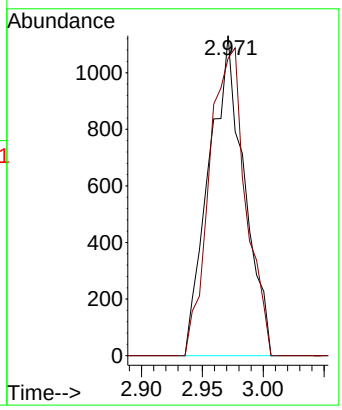


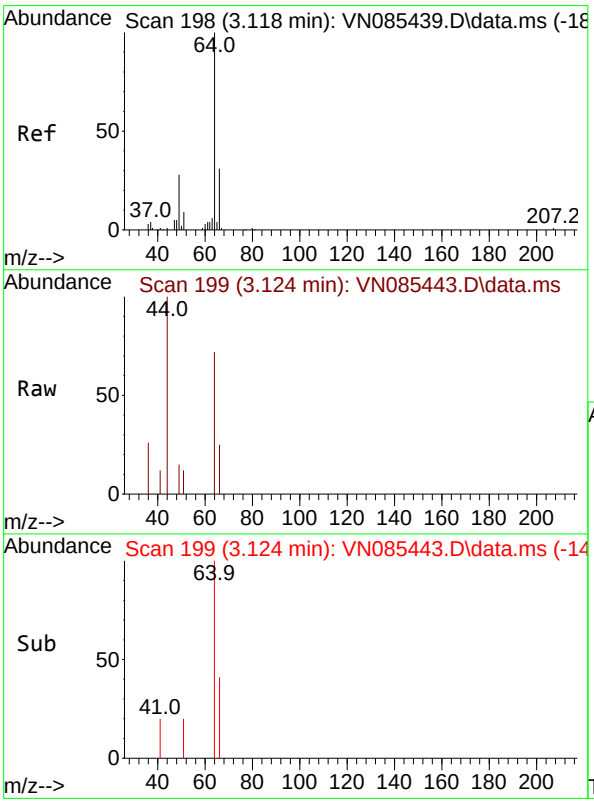
#5
Bromomethane
Concen: 1.534 ug/l
RT: 2.971 min Scan# 1
Delta R.T. 0.018 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 94 Resp: 2279

Ion	Ratio	Lower	Upper
94	100		
96	92.9	71.8	107.6

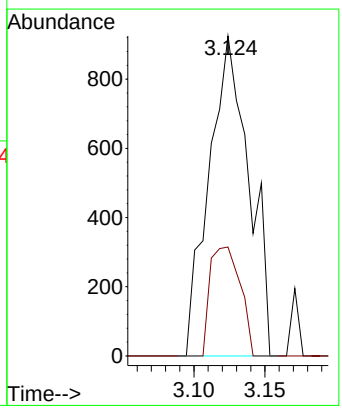


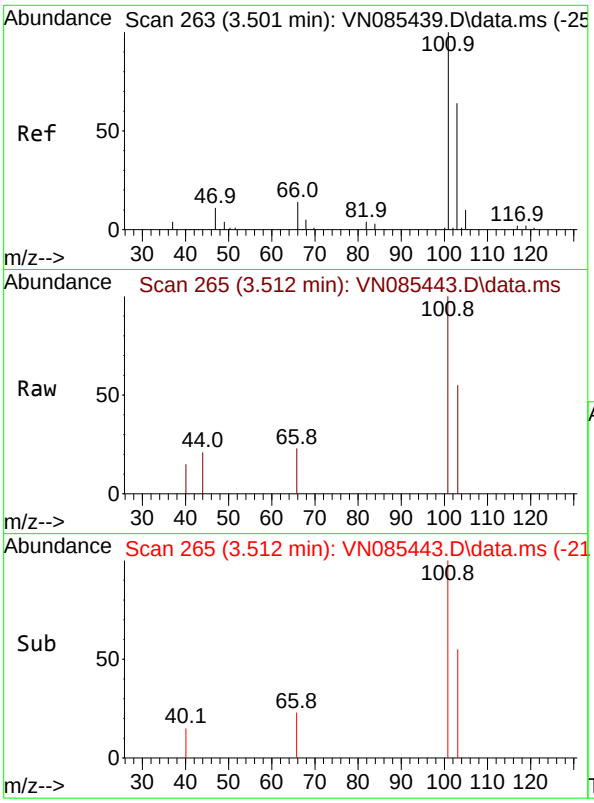


#6
Chloroethane
Concen: 1.160 ug/l
RT: 3.124 min Scan# 199
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 64 Resp: 1809

Ion	Ratio	Lower	Upper
64	100		
66	34.1	24.6	36.8



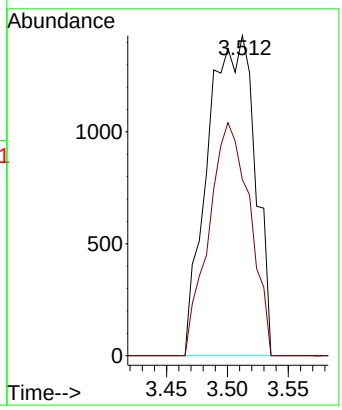


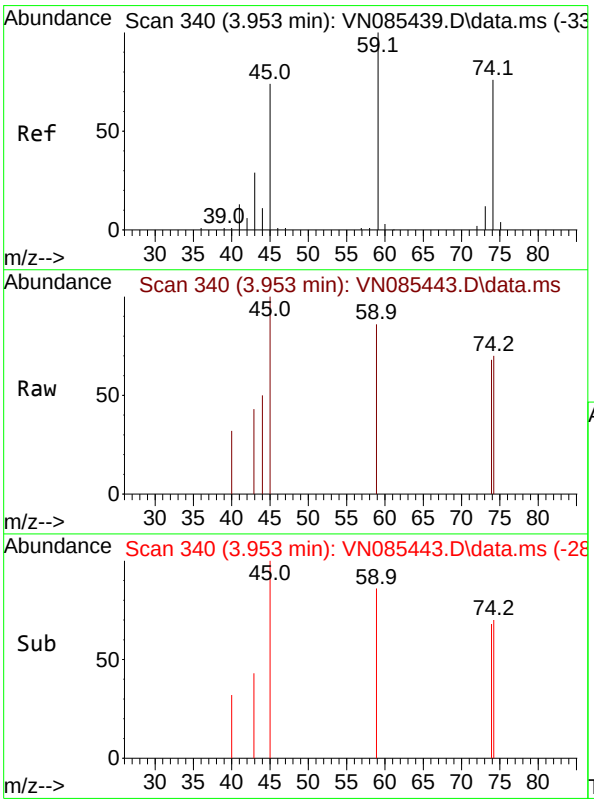
#7
Trichlorofluoromethane
Concen: 1.082 ug/l
RT: 3.512 min Scan# 2
Delta R.T. 0.012 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion:101 Resp: 3860

Ion	Ratio	Lower	Upper
101	100		
103	55.0	51.4	77.2

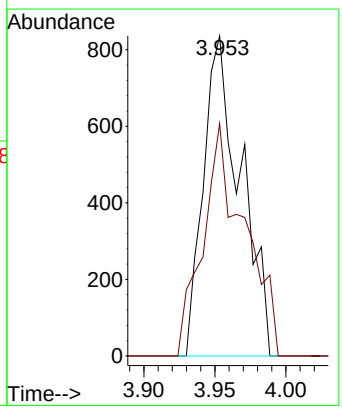


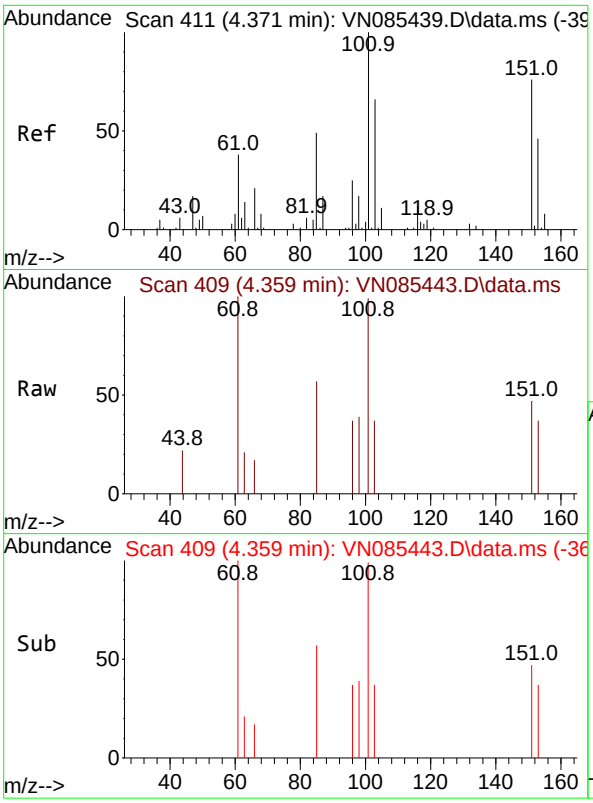


#8
Diethyl Ether
Concen: 1.238 ug/l
RT: 3.953 min Scan# 340
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 74 Resp: 1526

Ion	Ratio	Lower	Upper
74	100		
45	80.9	49.7	149.1



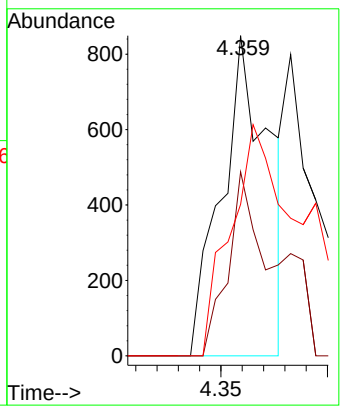


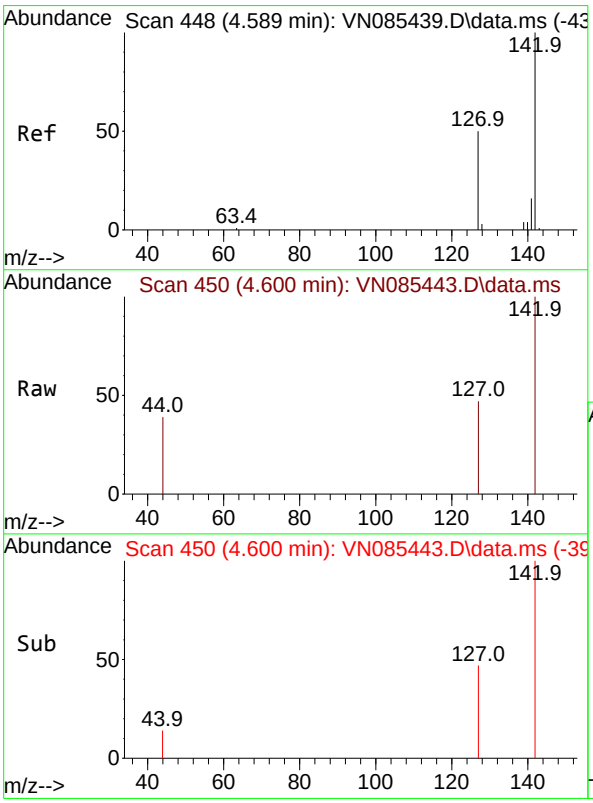
#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.651 ug/l
RT: 4.359 min Scan# 4(
Delta R.T. -0.012 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion:101 Resp: 1308

Ion	Ratio	Lower	Upper
101	100		
85	58.3	37.8	56.8#
151	109.4	58.8	88.2#

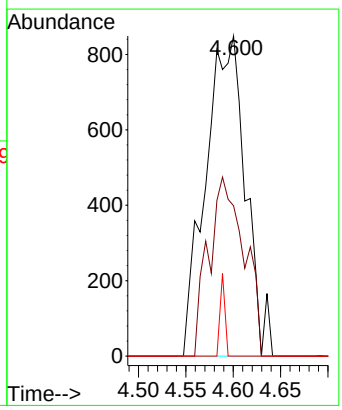


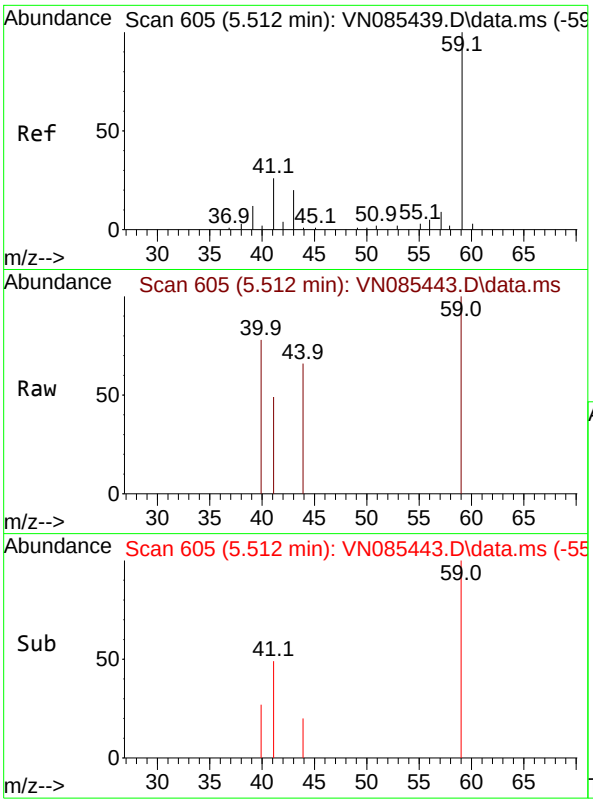


#10
Methyl Iodide
Concen: 1.077 ug/l
RT: 4.600 min Scan# 450
Delta R.T. 0.012 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion:142 Resp: 2478

Ion	Ratio	Lower	Upper
142	100		
127	47.0	40.3	60.5
141	0.0	12.8	19.2#



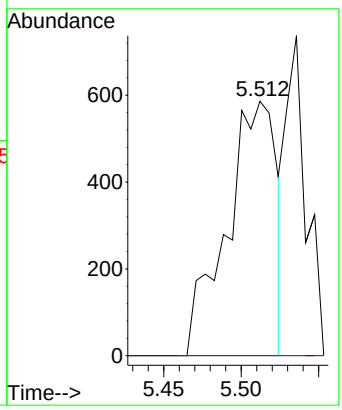


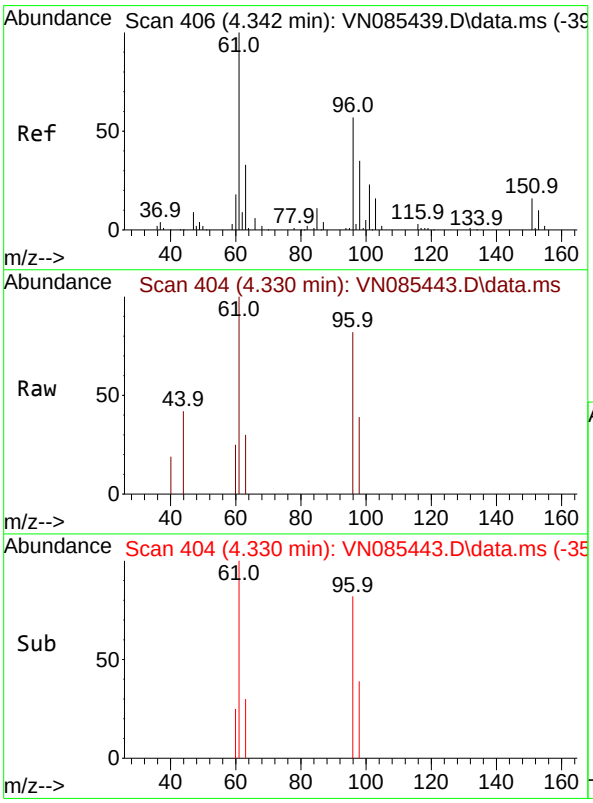
#11
Tert butyl alcohol
Concen: 4.260 ug/l
RT: 5.512 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 59 Resp: 1314

Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.6	13.0#

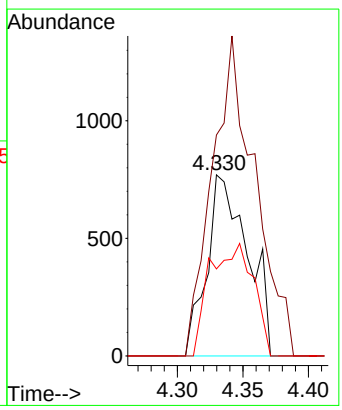


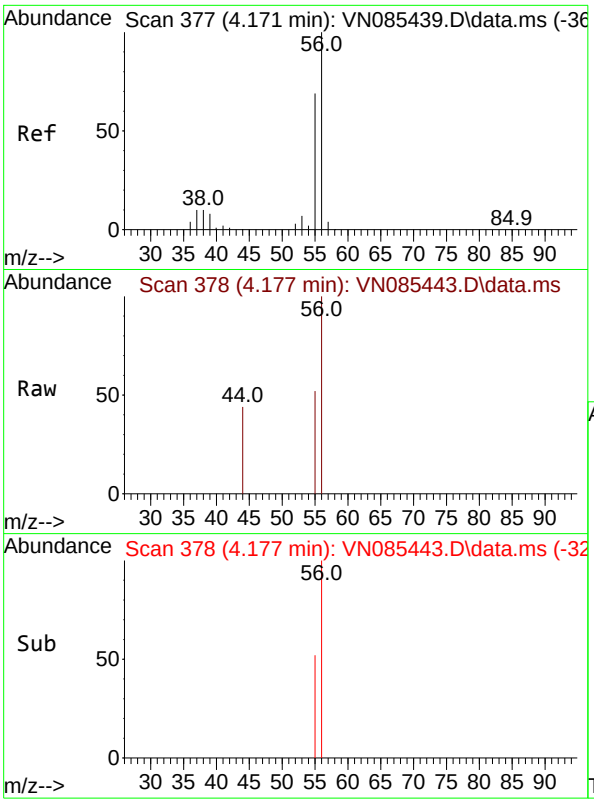


#12
1,1-Dichloroethene
Concen: 0.927 ug/l
RT: 4.330 min Scan# 404
Delta R.T. -0.012 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 96 Resp: 1660

Ion	Ratio	Lower	Upper
96	100		
61	122.1	141.0	211.4#
98	48.1	49.0	73.6#



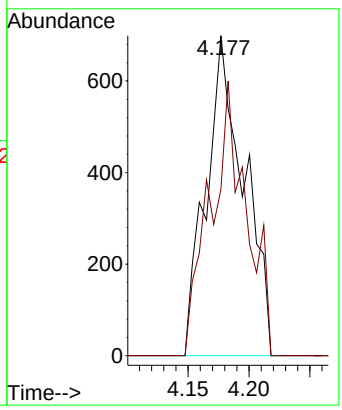


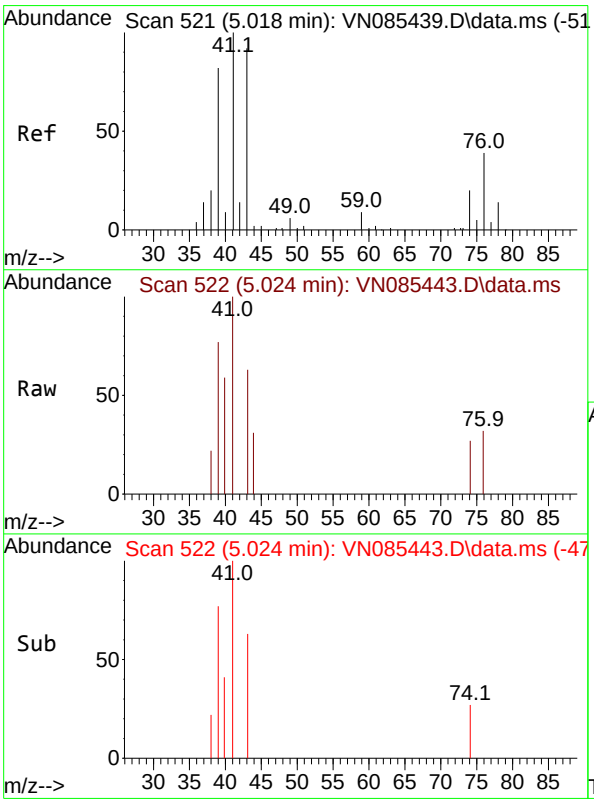
#13
Acrolein
Concen: 3.586 ug/l
RT: 4.177 min Scan# 3
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 56 Resp: 1510

Ion	Ratio	Lower	Upper
56	100		
55	81.8	56.3	84.5

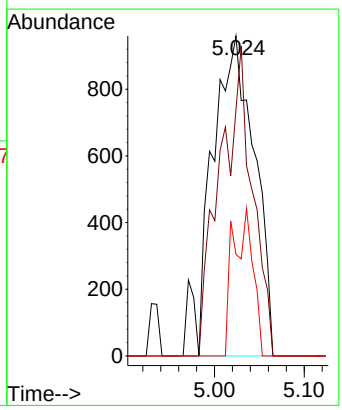


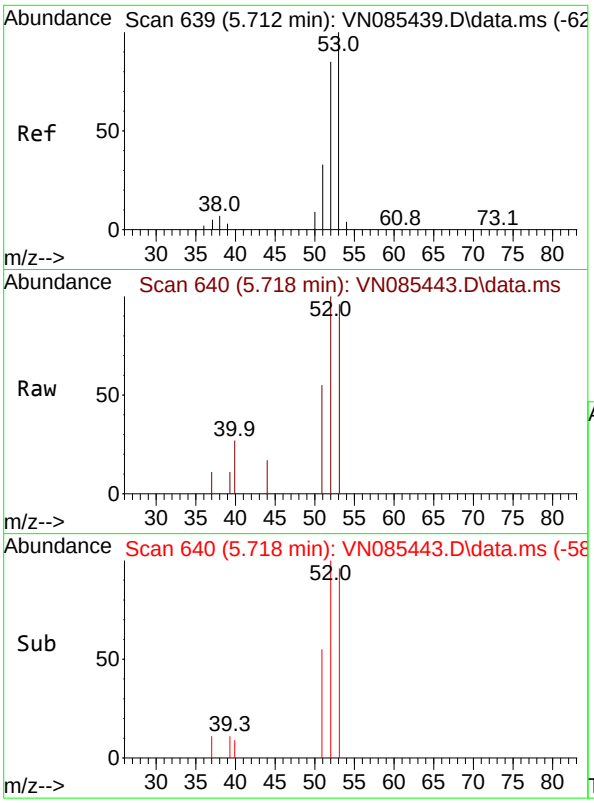


#14
Allyl chloride
Concen: 1.094 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 41 Resp: 3179

Ion	Ratio	Lower	Upper
41	100		
39	73.1	64.4	96.6
76	21.4	30.5	45.7#



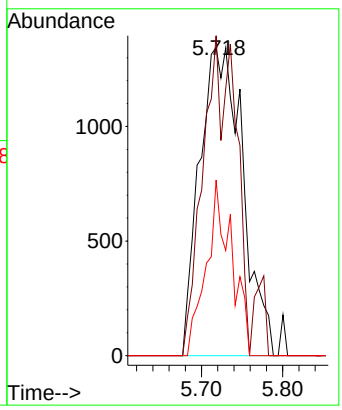


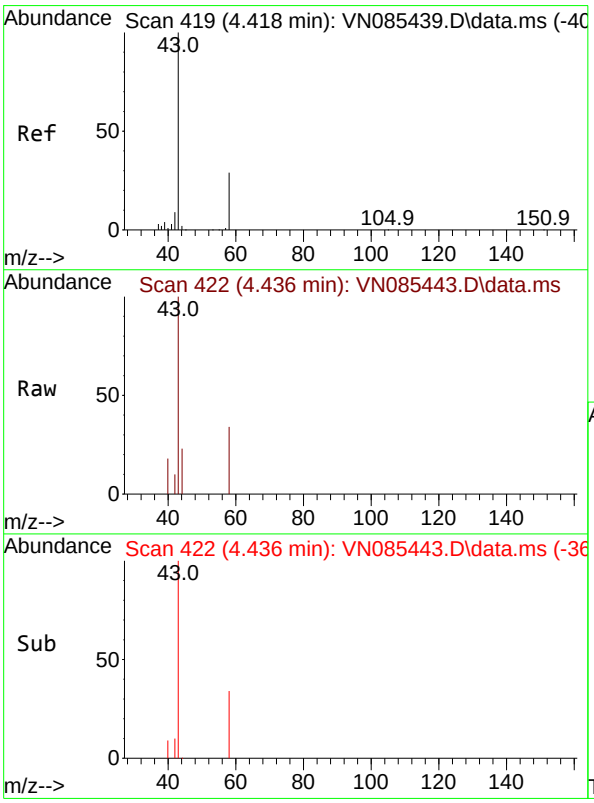
#15
Acrylonitrile
Concen: 5.070 ug/l
RT: 5.718 min Scan# 64
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 53 Resp: 4967

Ion	Ratio	Lower	Upper
53	100		
52	45.1	65.5	98.3#
51	33.3	29.8	44.8

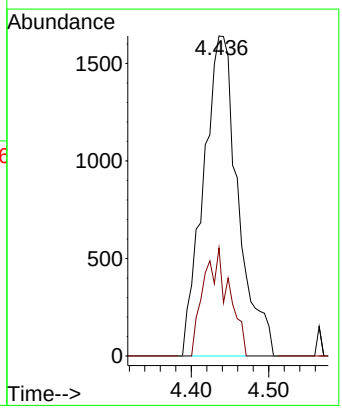


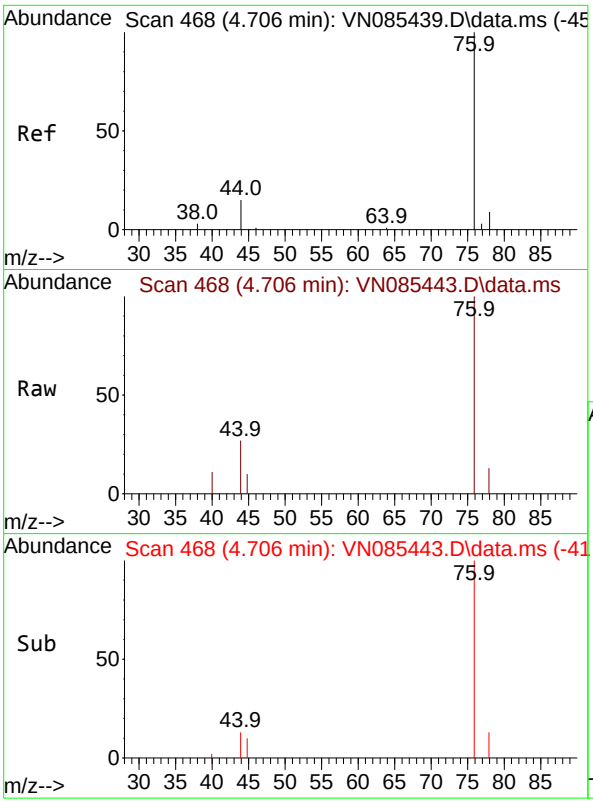


#16
Acetone
Concen: 5.862 ug/l
RT: 4.436 min Scan# 422
Delta R.T. 0.018 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 43 Resp: 5102

Ion	Ratio	Lower	Upper
43	100		
58	33.8	23.8	35.6



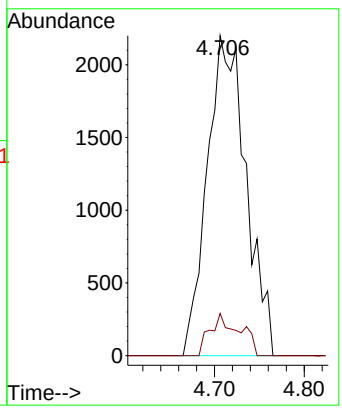


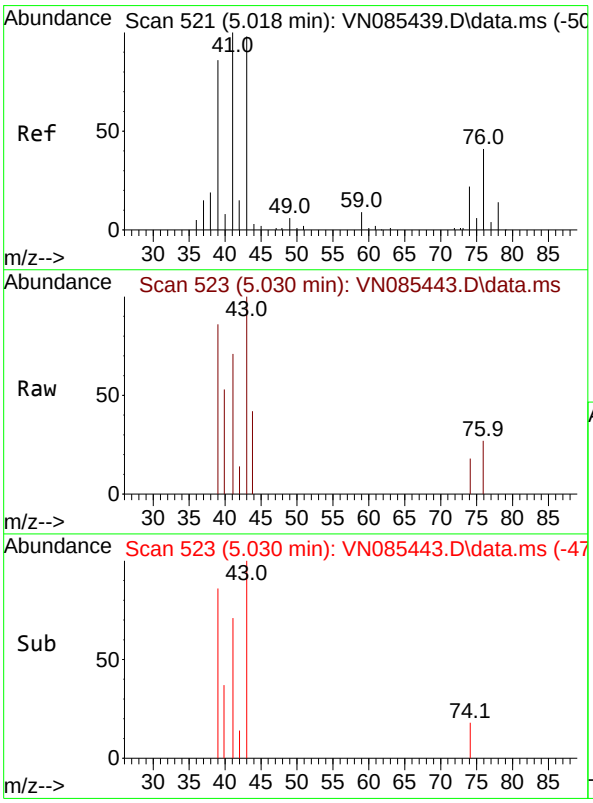
#17
Carbon Disulfide
Concen: 1.197 ug/l
RT: 4.706 min Scan# 4
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 76 Resp: 6601

Ion	Ratio	Lower	Upper
76	100		
78	13.2	6.9	10.3#

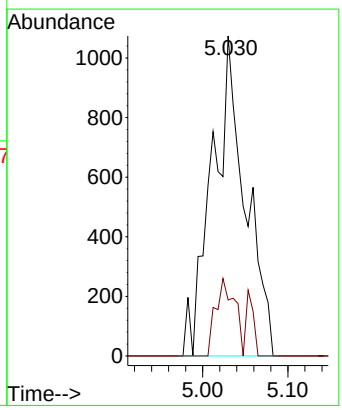


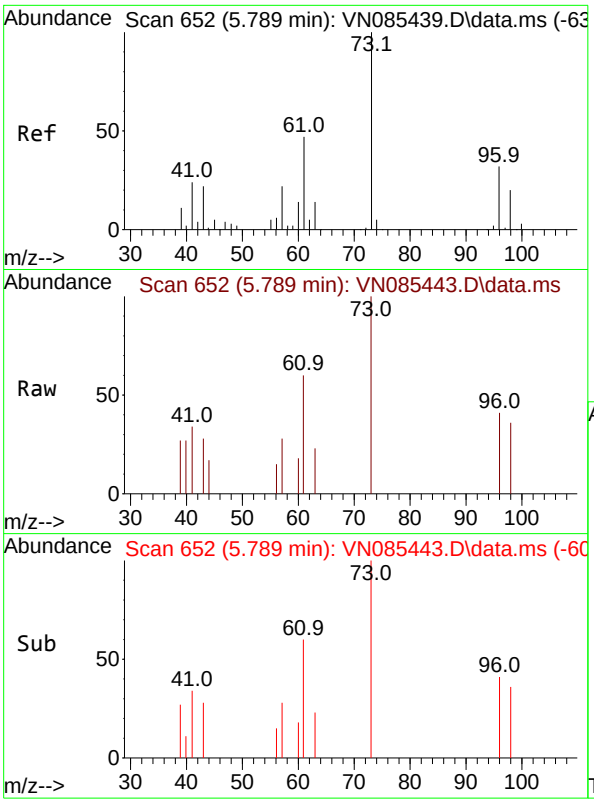


#18
Methyl Acetate
Concen: 1.099 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.012 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 43 Resp: 2908

Ion	Ratio	Lower	Upper
43	100		
74	13.8	18.6	28.0#



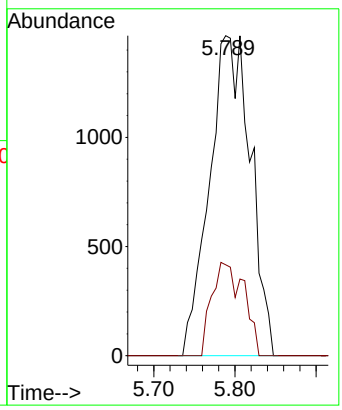


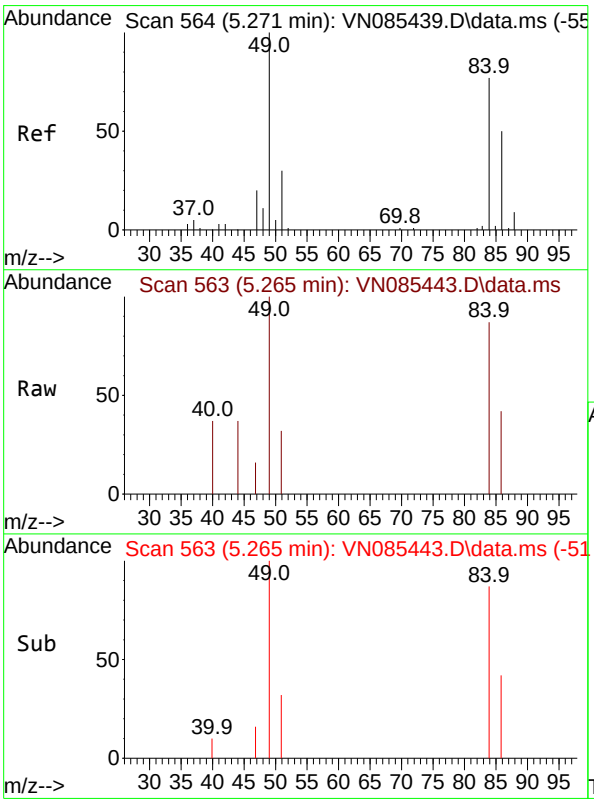
#19
Methyl tert-butyl Ether
Concen: 0.887 ug/l
RT: 5.789 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 73 Resp: 5156

Ion	Ratio	Lower	Upper
73	100		
57	28.4	17.8	26.8#

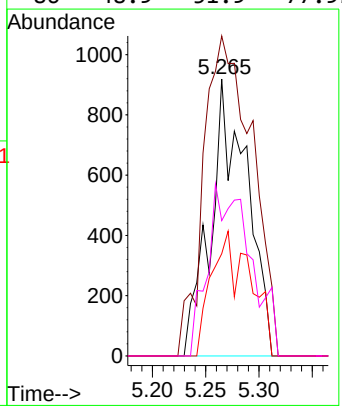


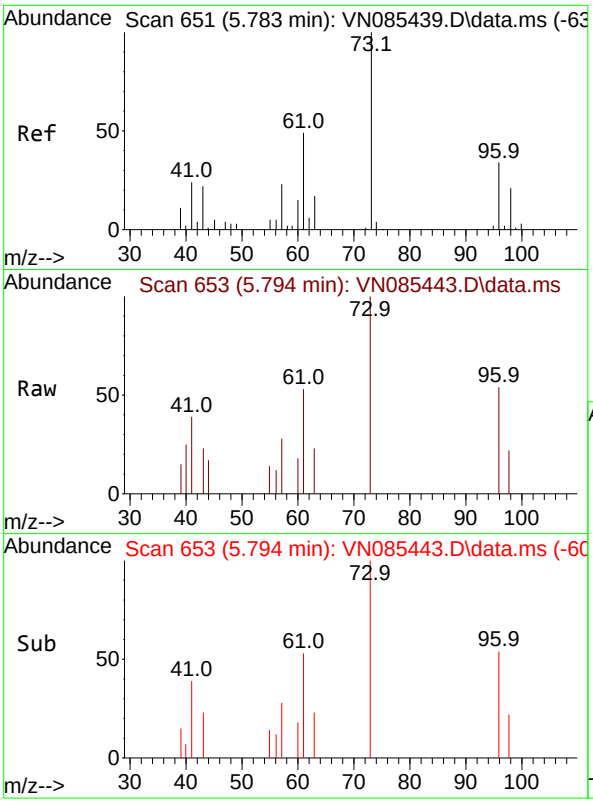


#20
Methylene Chloride
Concen: 1.016 ug/l
RT: 5.265 min Scan# 563
Delta R.T. -0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 84 Resp: 2190

Ion	Ratio	Lower	Upper
84	100		
49	115.6	104.1	156.1
51	36.9	31.0	46.4
86	48.9	51.9	77.9#



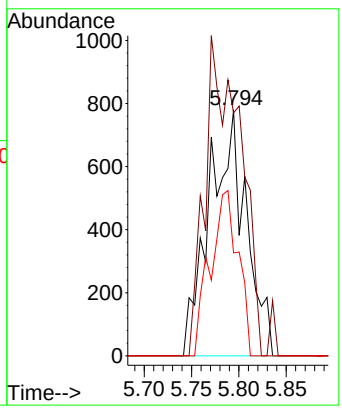


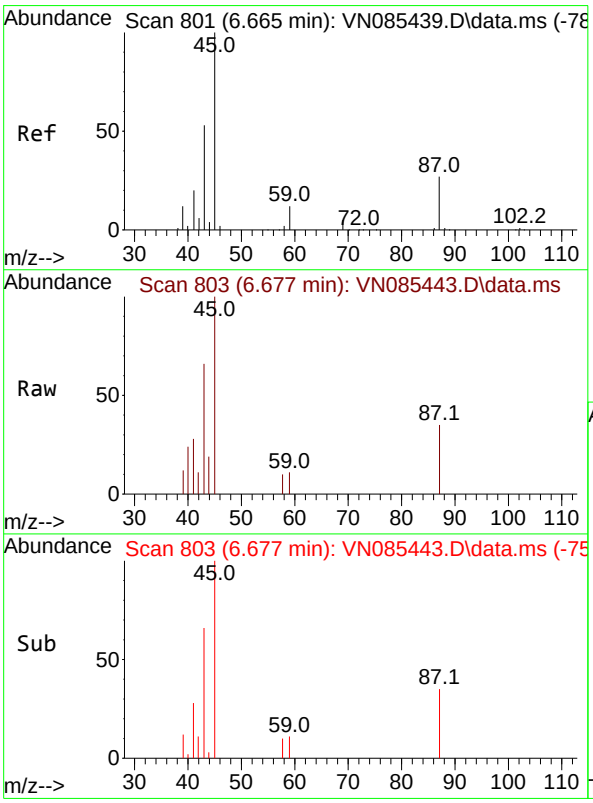
#21
trans-1,2-Dichloroethene
Concen: 1.102 ug/l
RT: 5.794 min Scan# 6
Delta R.T. 0.012 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 96 Resp: 2110

Ion	Ratio	Lower	Upper
96	100		
61	98.7	115.7	173.5#
98	41.8	49.8	74.8#

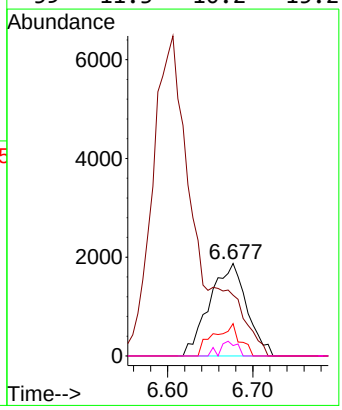


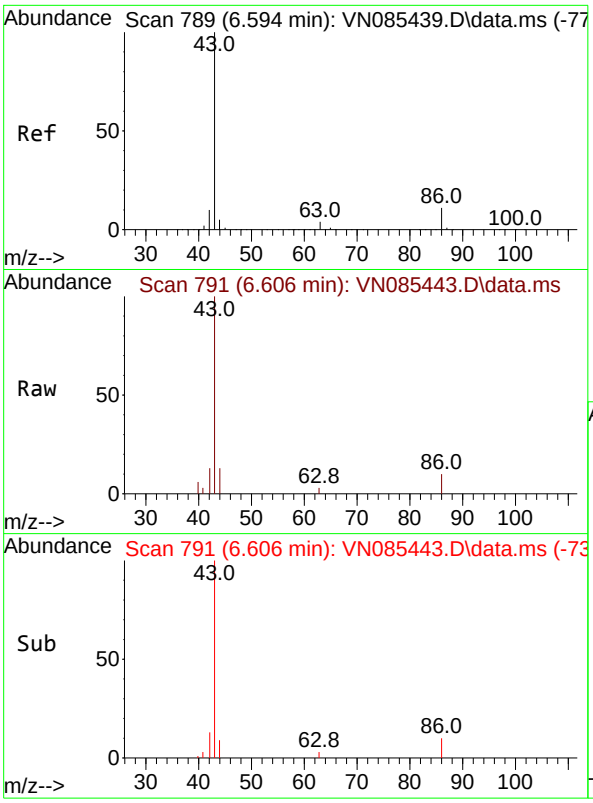


#22
Diisopropyl ether
Concen: 0.882 ug/l
RT: 6.677 min Scan# 803
Delta R.T. 0.012 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 45 Resp: 5691

Ion	Ratio	Lower	Upper
45	100		
43	65.9	45.0	67.6
87	35.0	21.8	32.8#
59	11.3	10.2	15.2



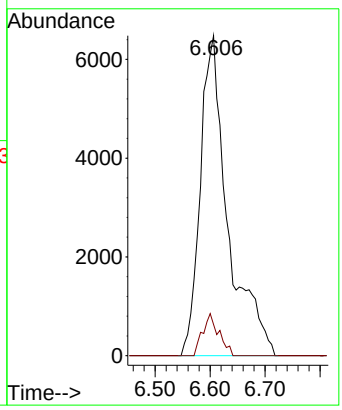


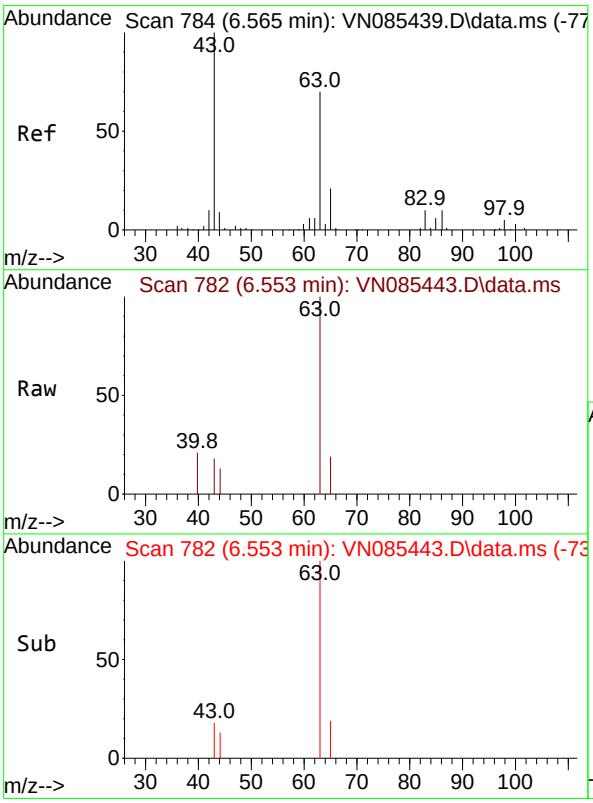
#23
Vinyl Acetate
Concen: 4.988 ug/l
RT: 6.606 min Scan# 7
Delta R.T. 0.012 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 22593

Ion	Ratio	Lower	Upper
43	100		
86	9.8	8.4	12.6

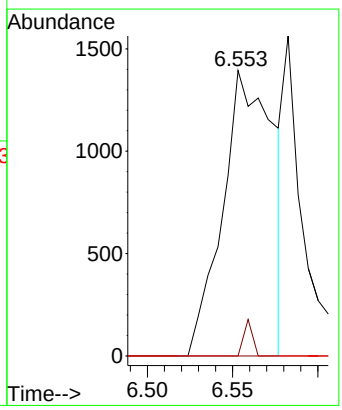


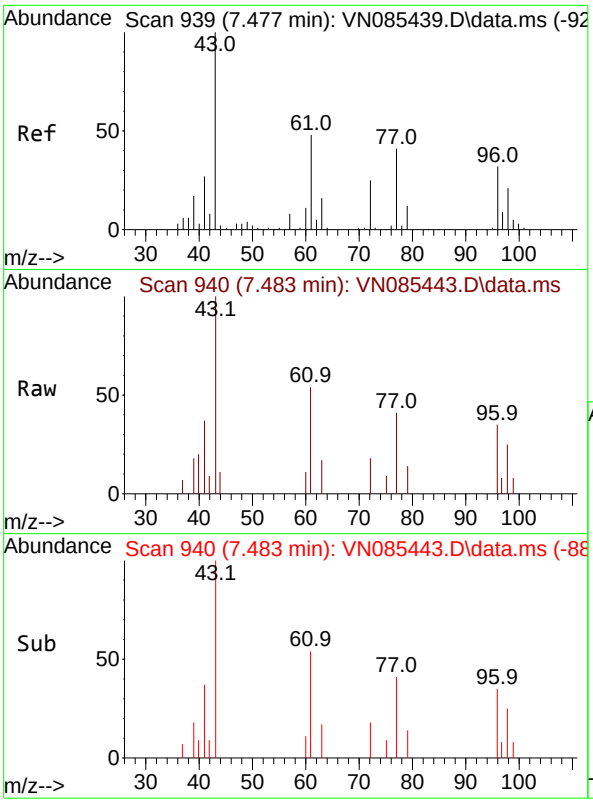


#24
1,1-Dichloroethane
Concen: 0.730 ug/l
RT: 6.553 min Scan# 782
Delta R.T. -0.012 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 63 Resp: 2873

Ion	Ratio	Lower	Upper
63	100		
98	0.0	3.3	9.8#
100	0.0	2.0	6.0#



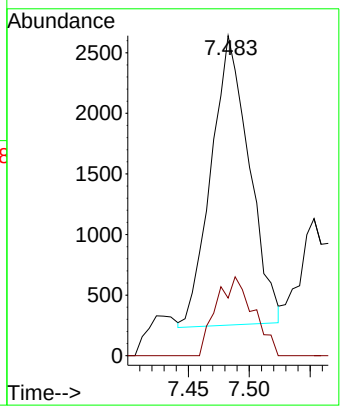


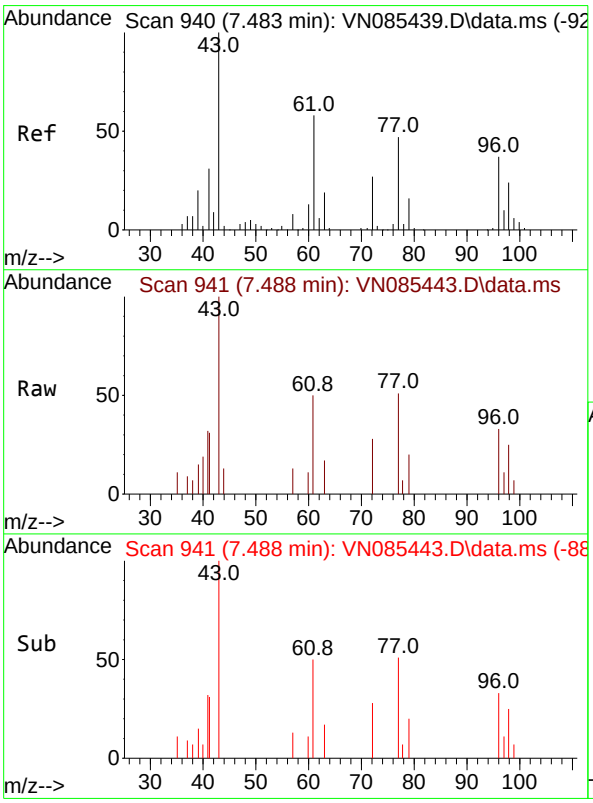
#25
2-Butanone
Concen: 4.062 ug/l
RT: 7.483 min Scan# 94
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 5203

Ion	Ratio	Lower	Upper
43	100		
72	20.1	20.2	30.4#

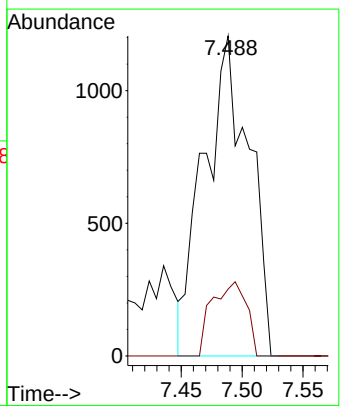


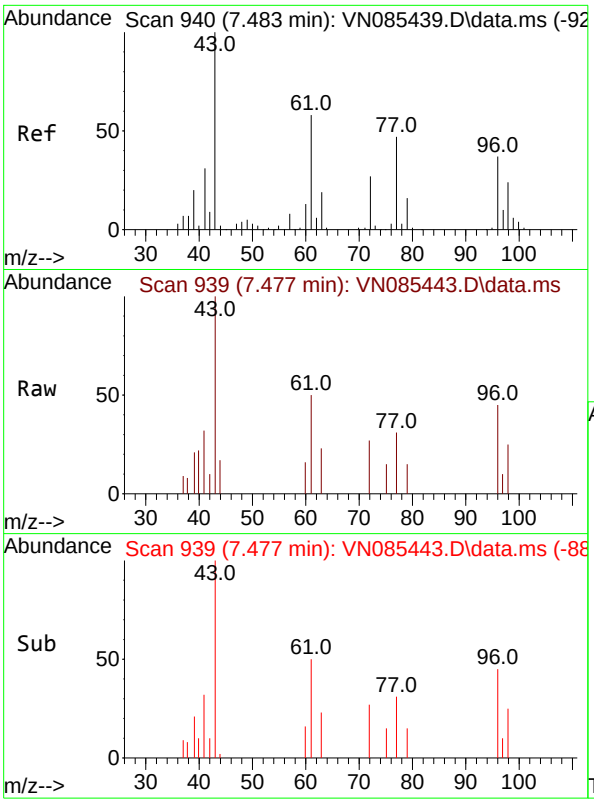


#26
2,2-Dichloropropane
Concen: 0.976 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 77 Resp: 3104

Ion	Ratio	Lower	Upper
77	100		
97	17.7	10.7	32.1



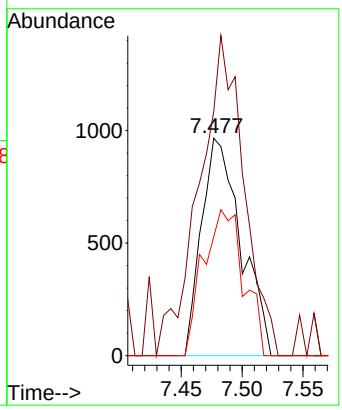


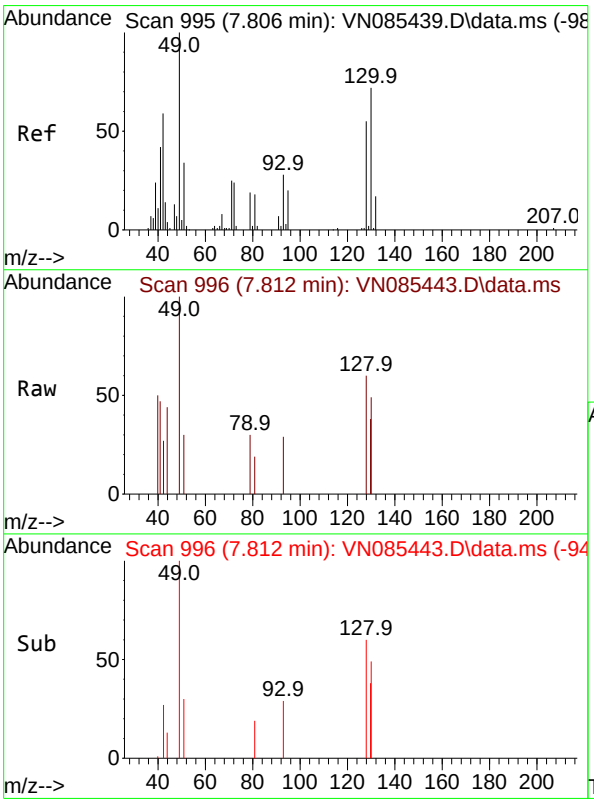
#27
cis-1,2-Dichloroethene
Concen: 0.969 ug/l
RT: 7.477 min Scan# 9
Delta R.T. -0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 96 Resp: 2185

Ion	Ratio	Lower	Upper
96	100		
61	166.1	0.0	311.8
98	68.7	0.0	126.0

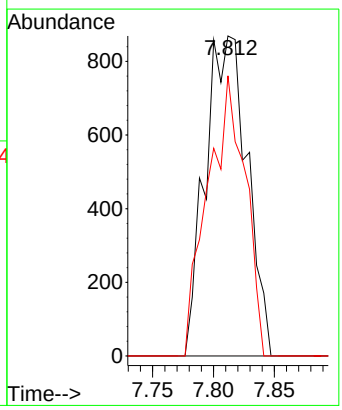


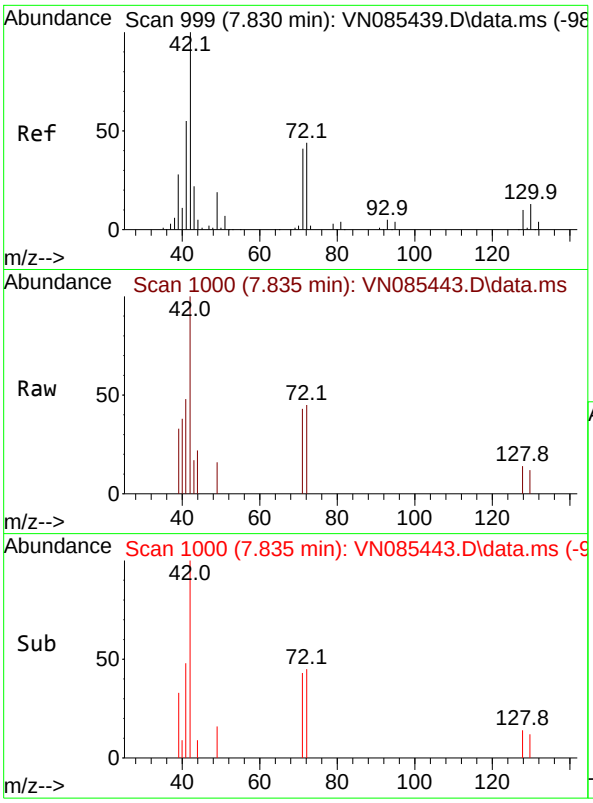


#28
Bromochloromethane
Concen: 1.138 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 49 Resp: 2082

Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.4
130	78.0	55.0	82.4



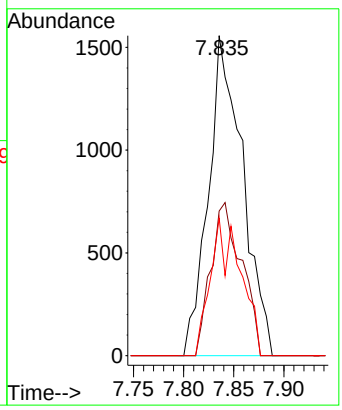


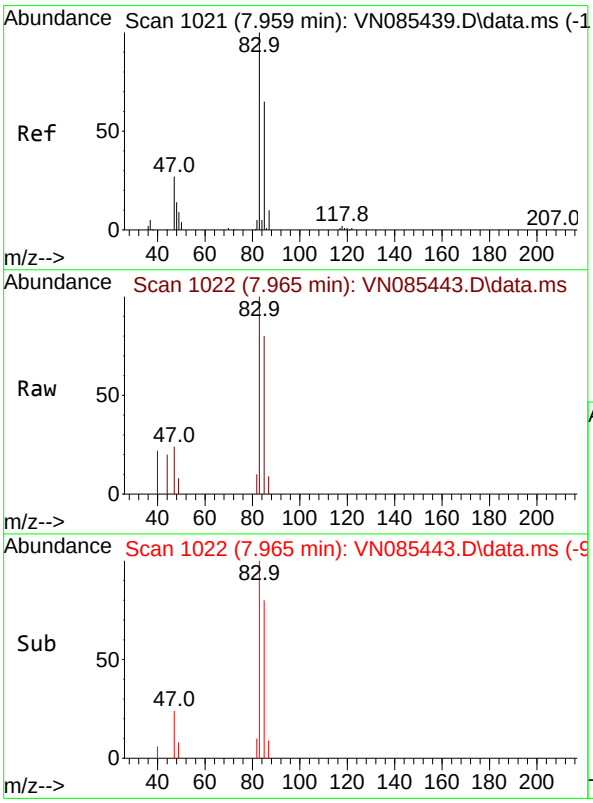
#29
Tetrahydrofuran
Concen: 4.548 ug/l
RT: 7.835 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 42 Resp: 3693

Ion	Ratio	Lower	Upper
42	100		
72	43.1	34.2	51.2
71	37.9	32.5	48.7

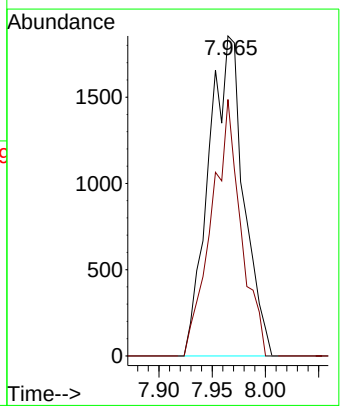


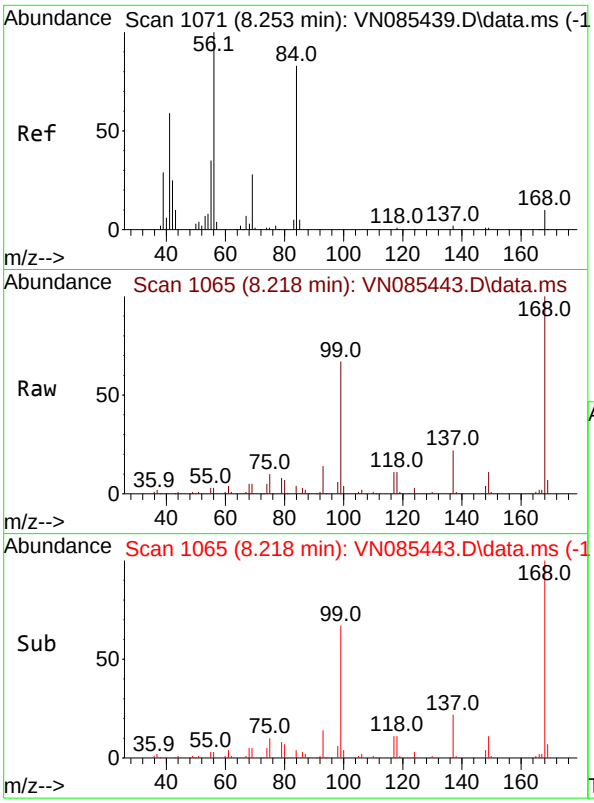


#30
Chloroform
Concen: 1.045 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 83 Resp: 4250

Ion	Ratio	Lower	Upper
83	100		
85	80.2	51.8	77.6#



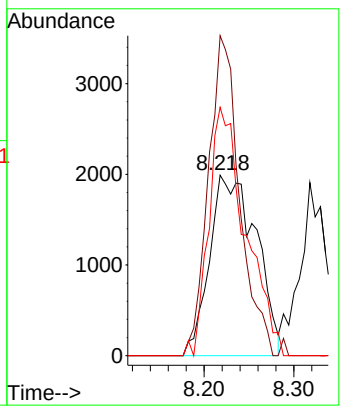


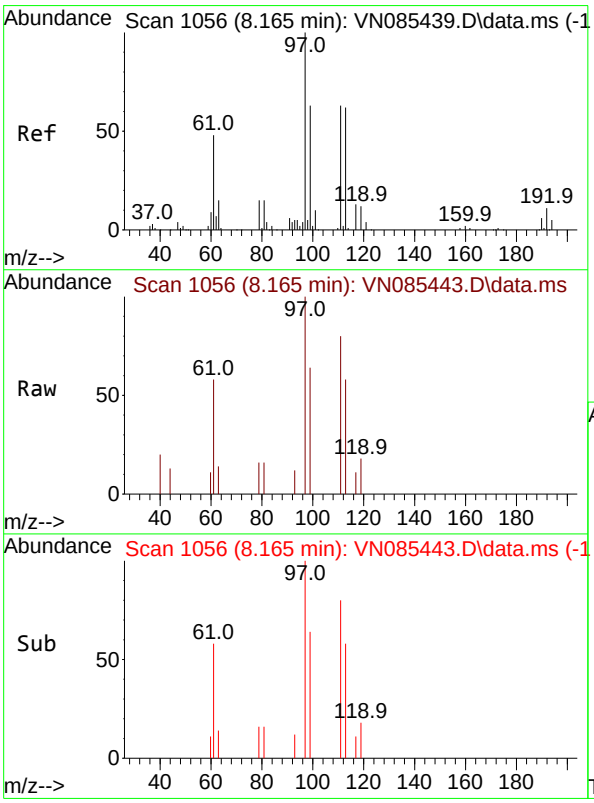
#31
Cyclohexane
Concen: 2.092 ug/l
RT: 8.218 min Scan# 1
Delta R.T. -0.035 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 56 Resp: 7152

Ion	Ratio	Lower	Upper
56	100		
69	177.3	22.2	33.4#
84	137.6	66.4	99.6#

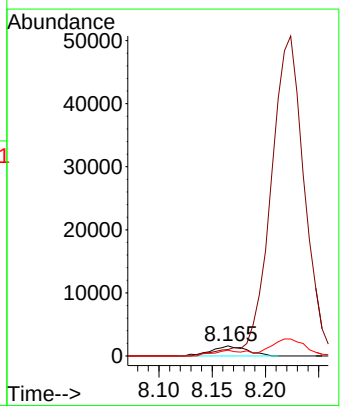


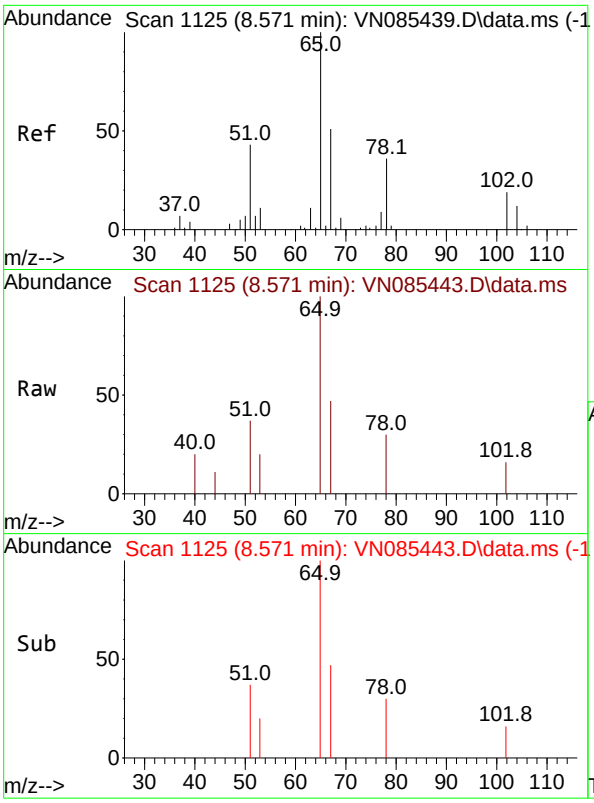


#32
1,1,1-Trichloroethane
Concen: 1.031 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 97 Resp: 3678

Ion	Ratio	Lower	Upper
97	100		
99	0.0	49.8	74.6#
61	52.2	41.4	62.2



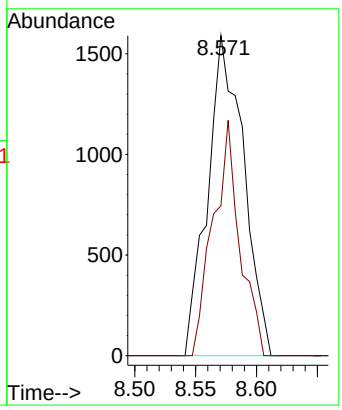


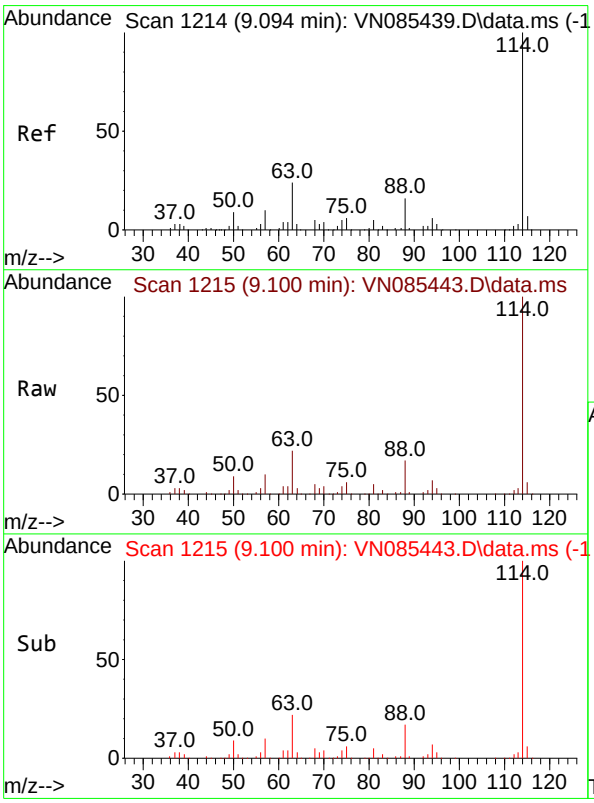
#33
1,2-Dichloroethane-d4
Concen: 1.215 ug/l
RT: 8.571 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 65 Resp: 3273

Ion	Ratio	Lower	Upper
65	100		
67	54.5	0.0	101.6

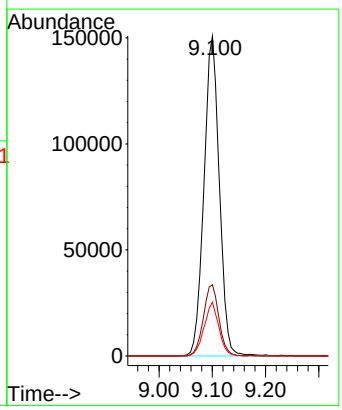


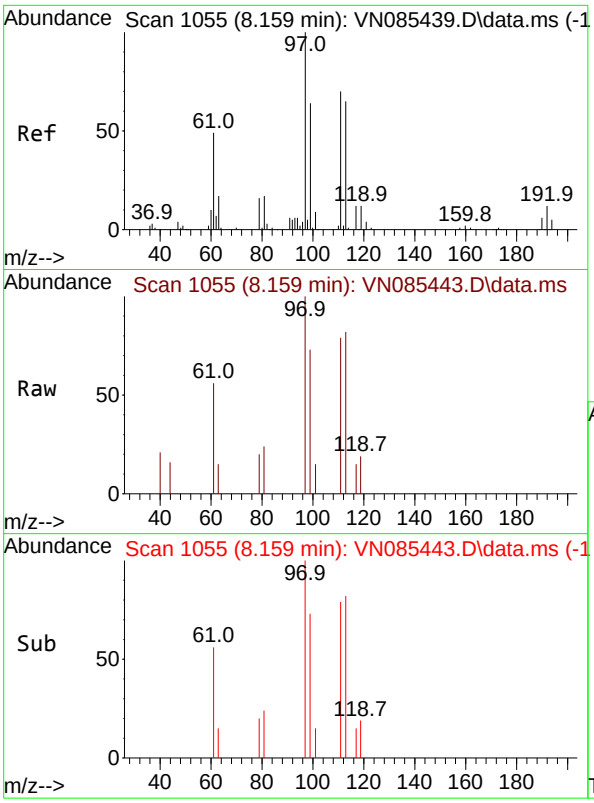


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion:114 Resp: 302938

Ion	Ratio	Lower	Upper
114	100		
63	22.3	0.0	47.6
88	16.8	0.0	32.6



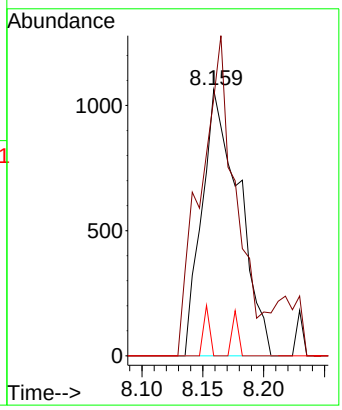


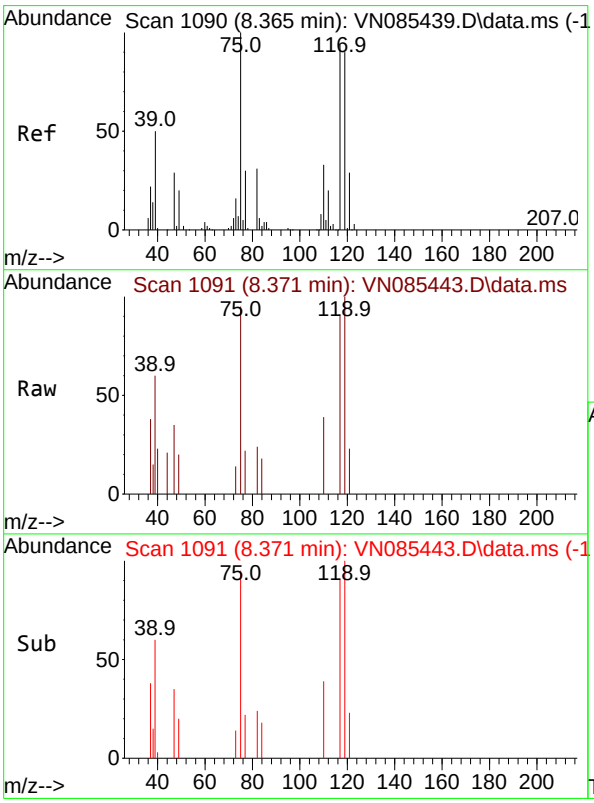
#35
Dibromofluoromethane
Concen: 1.074 ug/l
RT: 8.159 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion:113 Resp: 2258

Ion	Ratio	Lower	Upper
113	100		
111	116.7	82.7	124.1
192	3.1	14.3	21.5#

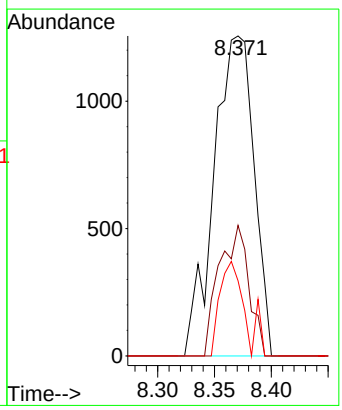


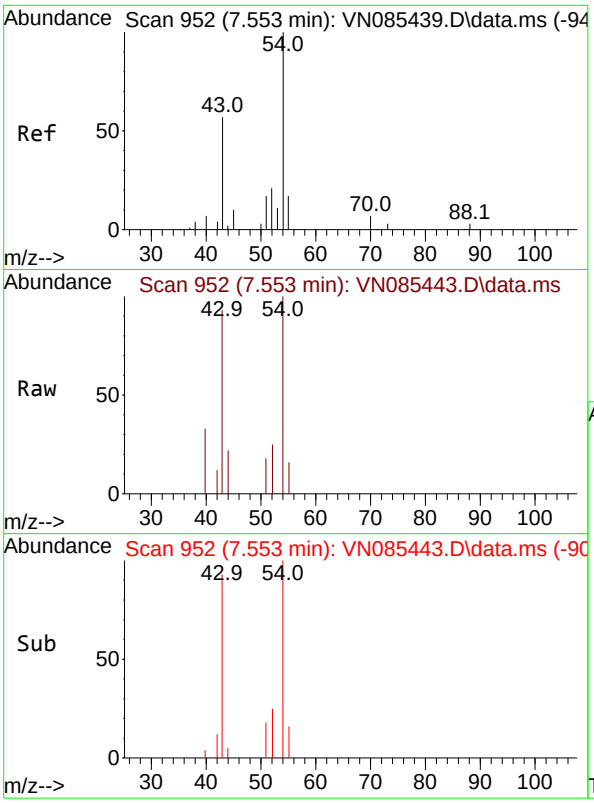


#36
1,1-Dichloropropene
Concen: 1.046 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 75 Resp: 3084

Ion	Ratio	Lower	Upper
75	100		
110	30.1	16.5	49.5
77	15.9	24.4	36.6#



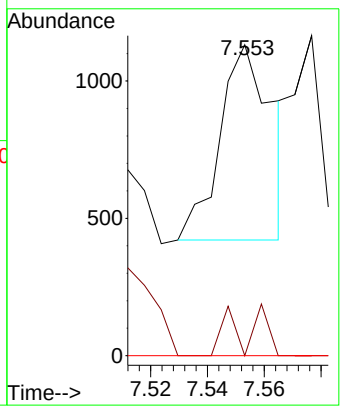


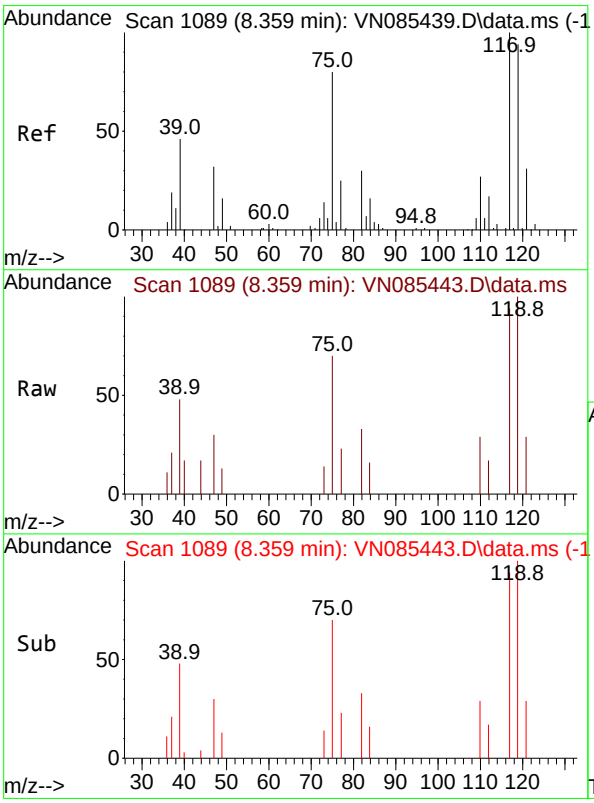
#37
Ethyl Acetate
Concen: 0.306 ug/l
RT: 7.553 min Scan# 9
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 911

Ion	Ratio	Lower	Upper
43	100		
61	14.3	10.9	16.3
70	0.0	7.5	11.3#

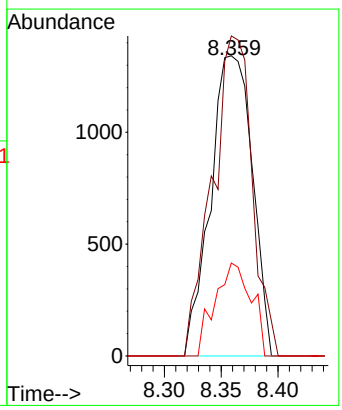


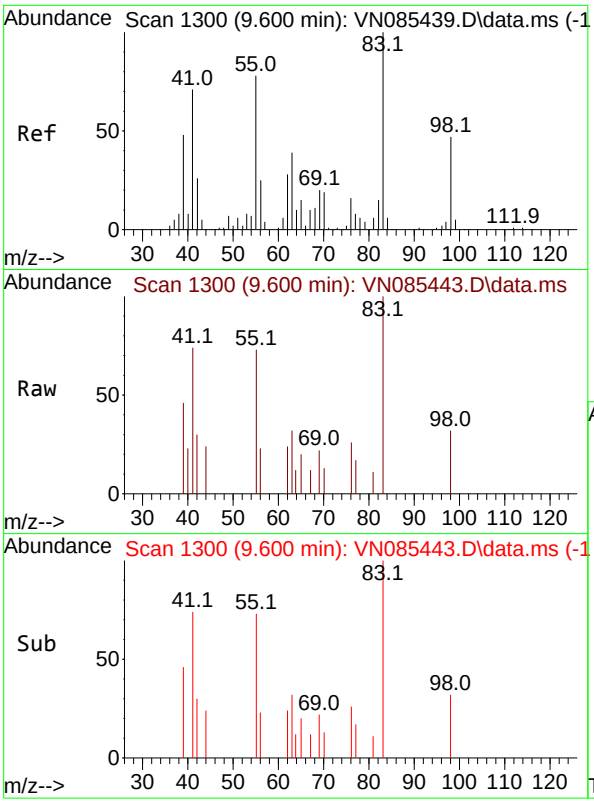


#38
Carbon Tetrachloride
Concen: 1.018 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion:117 Resp: 3436

Ion	Ratio	Lower	Upper
117	100		
119	106.6	75.4	113.2
121	31.0	24.6	37.0



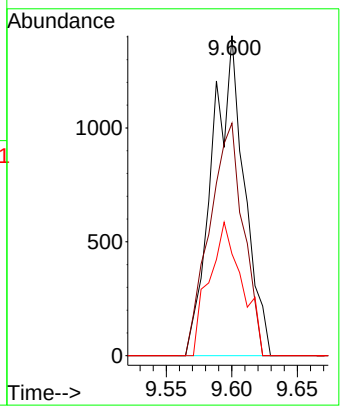


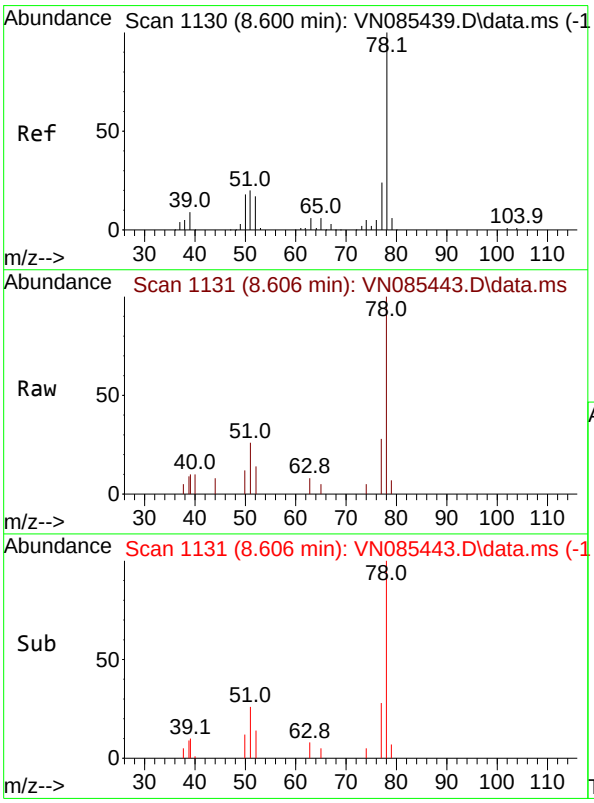
#39
Methylcyclohexane
Concen: 0.867 ug/l
RT: 9.600 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 83 Resp: 2403

Ion	Ratio	Lower	Upper
83	100		
55	72.7	62.6	94.0
98	31.8	37.7	56.5#

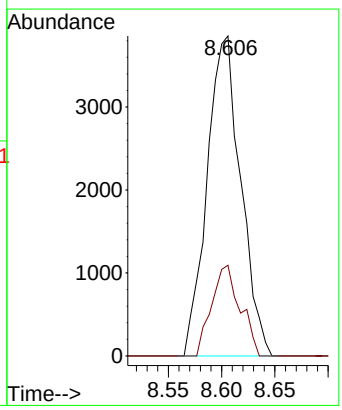


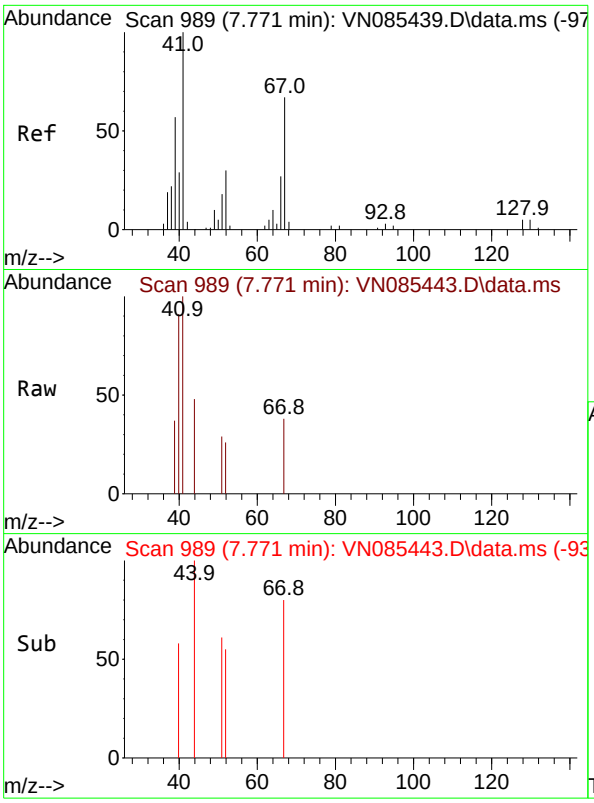


#40
Benzene
Concen: 0.957 ug/l
RT: 8.606 min Scan# 1131
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 78 Resp: 8480

Ion	Ratio	Lower	Upper
78	100		
77	28.3	19.0	28.6



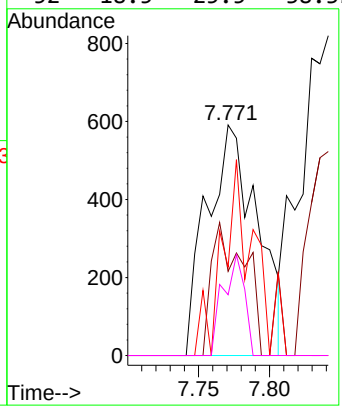


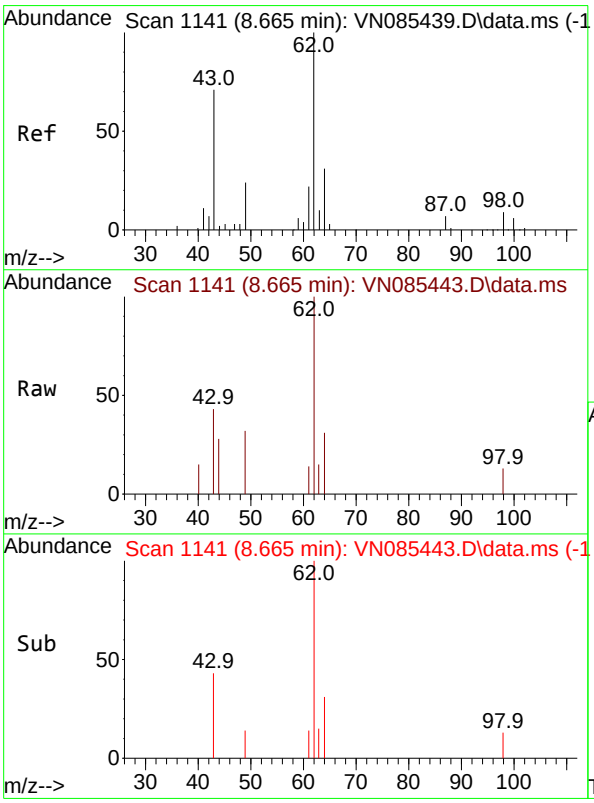
#41
Methacrylonitrile
Concen: 0.941 ug/l
RT: 7.771 min Scan# 9
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 41 Resp: 1458

Ion	Ratio	Lower	Upper
41	100		
39	37.6	46.0	69.0#
67	53.8	57.4	86.2#
52	18.5	25.5	38.3#

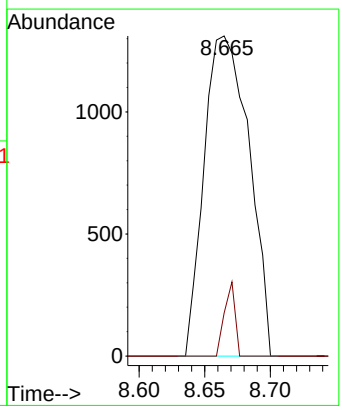


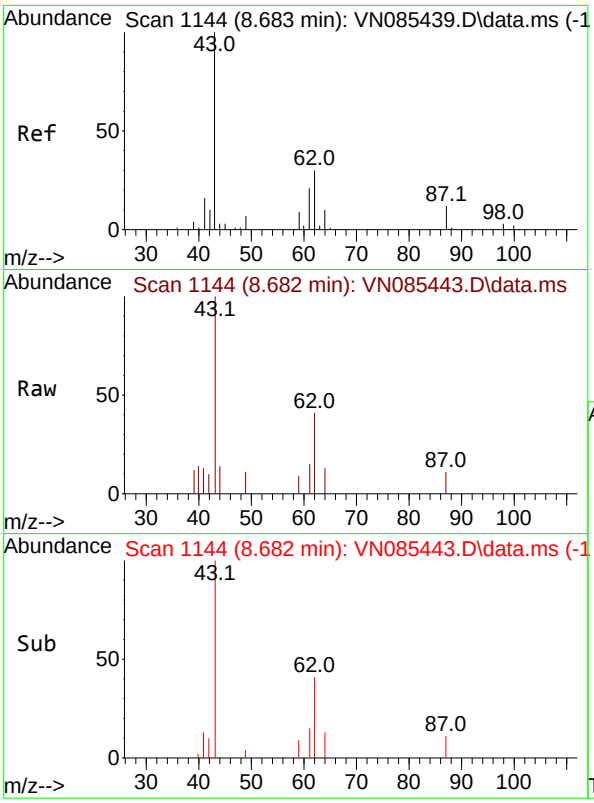


#42
1,2-Dichloroethane
Concen: 0.938 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 62 Resp: 3131

Ion	Ratio	Lower	Upper
62	100		
98	5.4	0.0	17.0



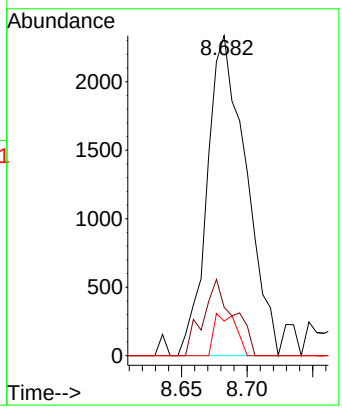


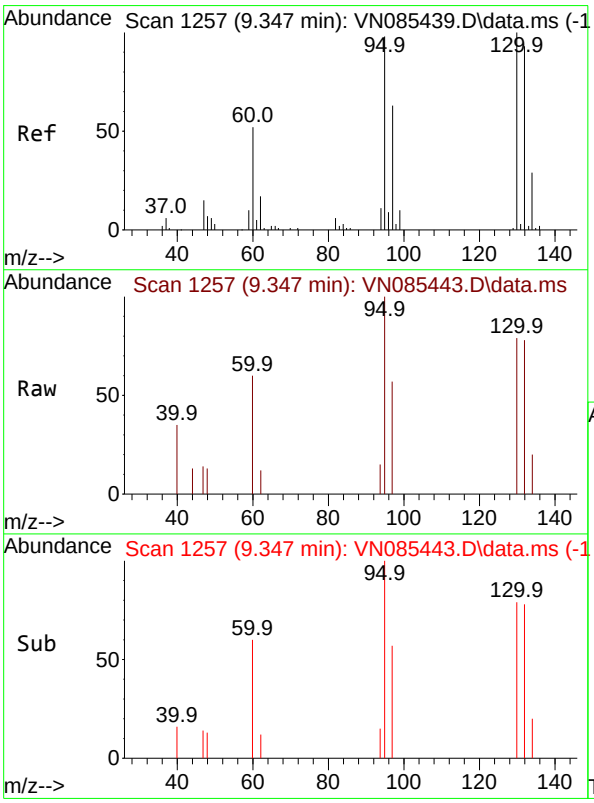
#43
Isopropyl Acetate
Concen: 1.007 ug/l
RT: 8.682 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 4803

Ion	Ratio	Lower	Upper
43	100		
61	18.9	20.7	31.1#
87	7.3	9.8	14.8#

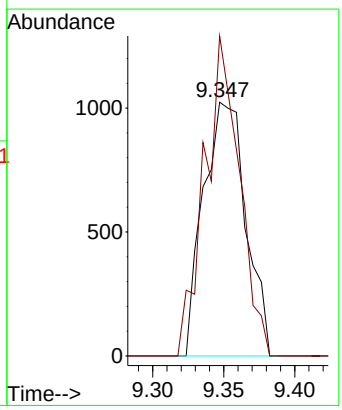


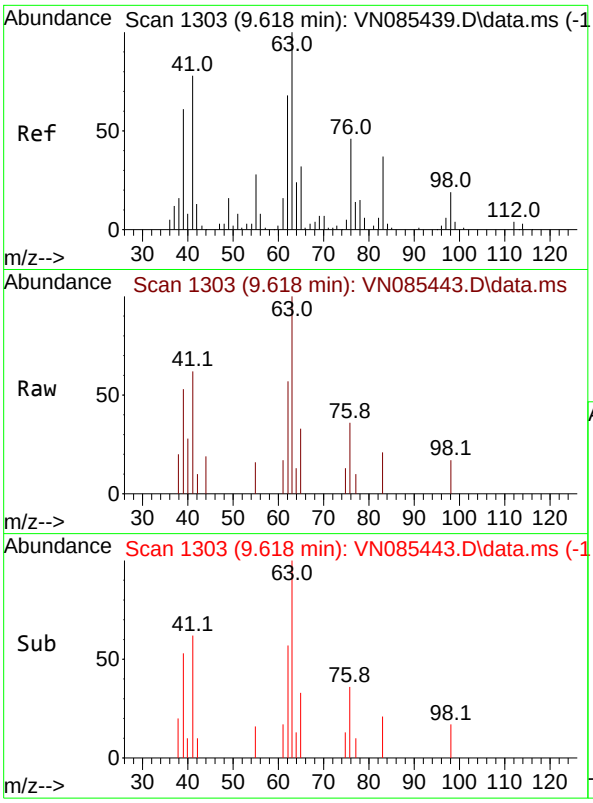


#44
Trichloroethene
Concen: 1.034 ug/l
RT: 9.347 min Scan# 1257
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion:130 Resp: 2133

Ion	Ratio	Lower	Upper
130	100		
95	126.1	0.0	195.8



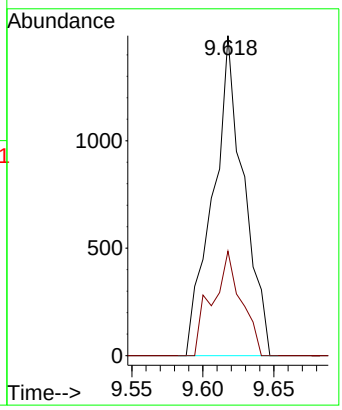


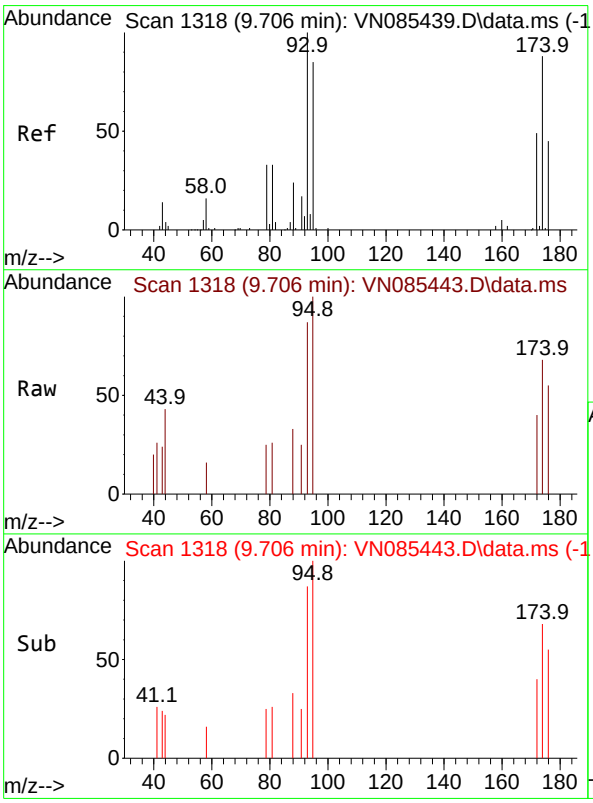
#45
1,2-Dichloropropane
Concen: 0.992 ug/l
RT: 9.618 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 63 Resp: 2246

Ion	Ratio	Lower	Upper
63	100		
65	32.6	25.6	38.4

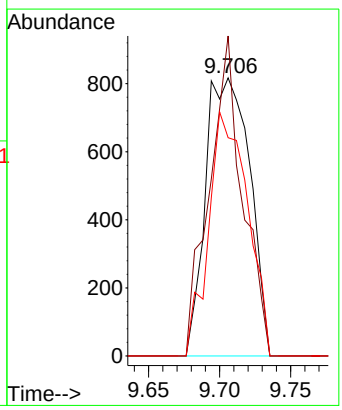


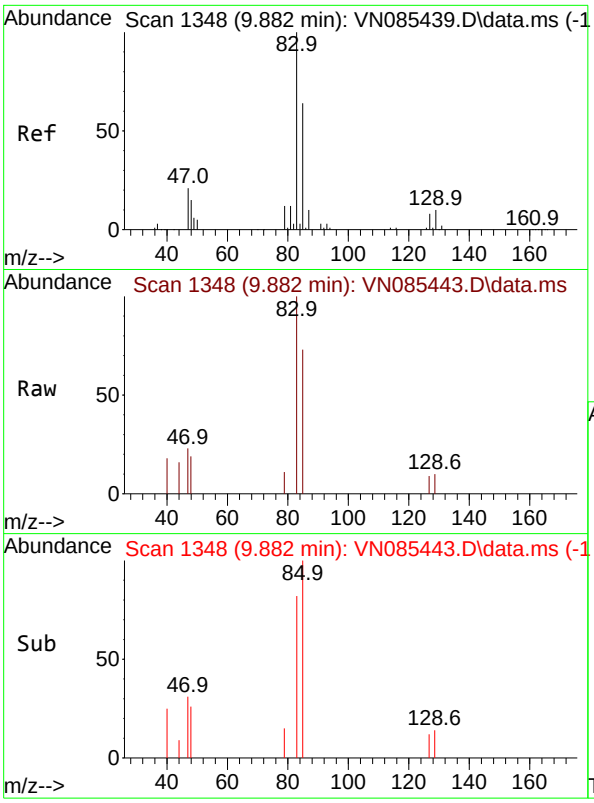


#46
Dibromomethane
Concen: 1.083 ug/l
RT: 9.706 min Scan# 1318
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 93 Resp: 1769

Ion	Ratio	Lower	Upper
93	100		
95	86.5	64.7	97.1
174	77.4	69.0	103.4



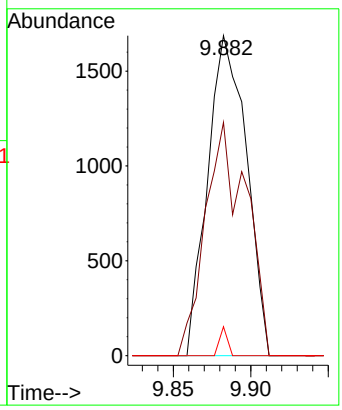


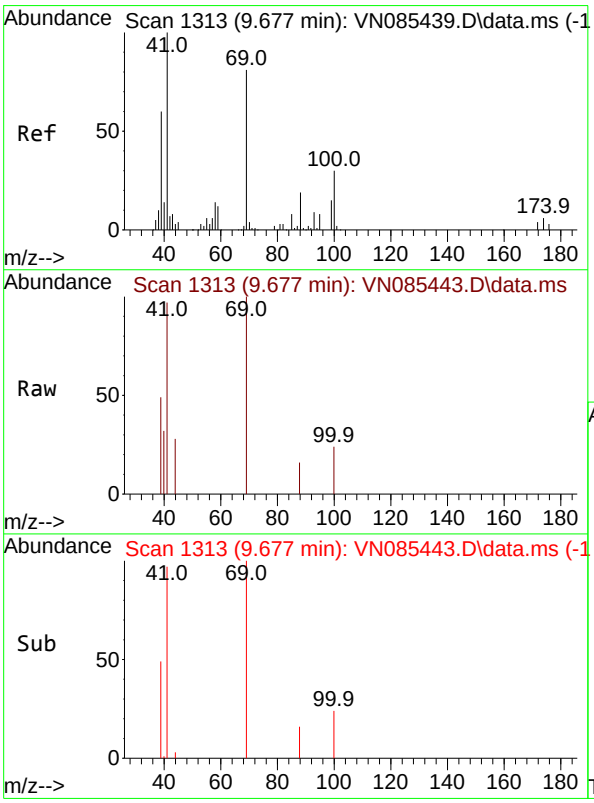
#47
Bromodichloromethane
Concen: 0.882 ug/l
RT: 9.882 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 83 Resp: 2935

Ion	Ratio	Lower	Upper
83	100		
85	72.9	51.2	76.8
127	9.0	6.5	9.7

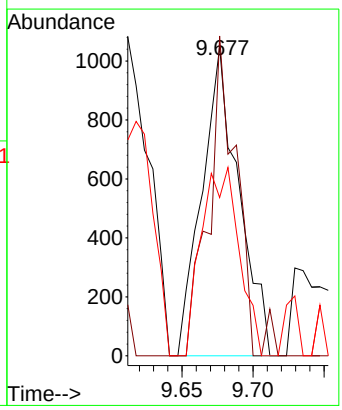


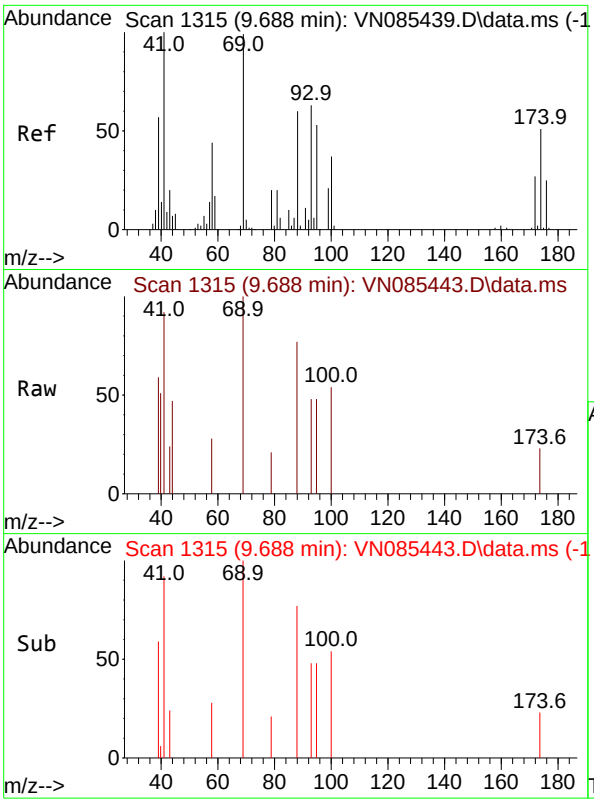


#48
Methyl methacrylate
Concen: 0.878 ug/l
RT: 9.677 min Scan# 1313
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 41 Resp: 1886

Ion	Ratio	Lower	Upper
41	100		
69	76.2	64.7	97.1
39	62.8	49.0	73.6



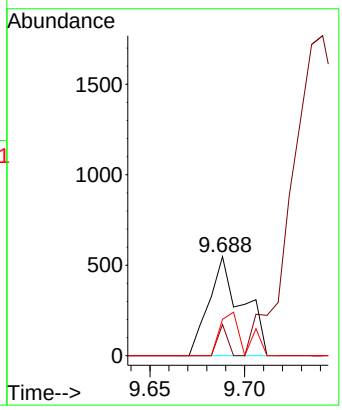


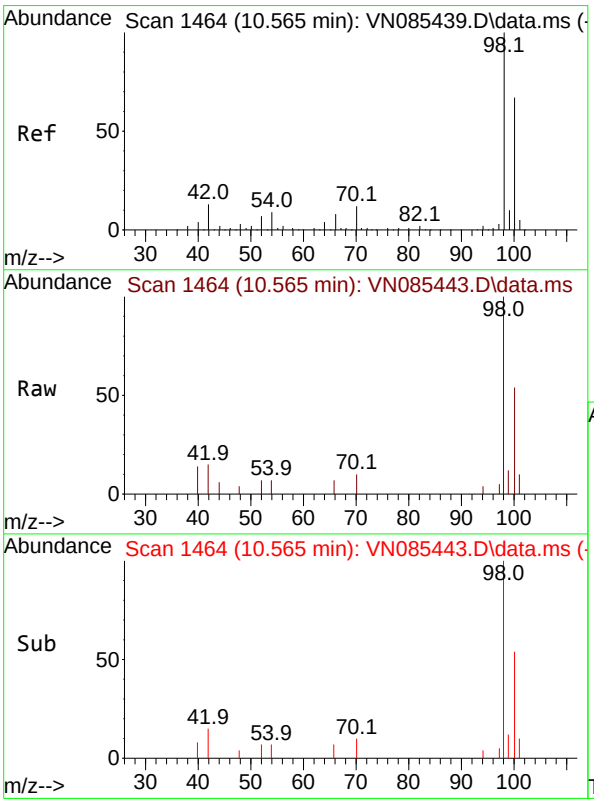
#49
1,4-Dioxane
Concen: 18.616 ug/l
RT: 9.688 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 88 Resp: 673

Ion	Ratio	Lower	Upper
88	100		
43	0.0	26.6	39.8#
58	31.1	59.5	89.3#

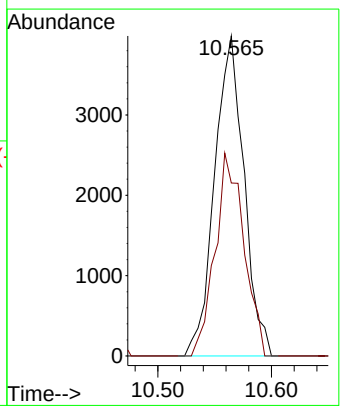


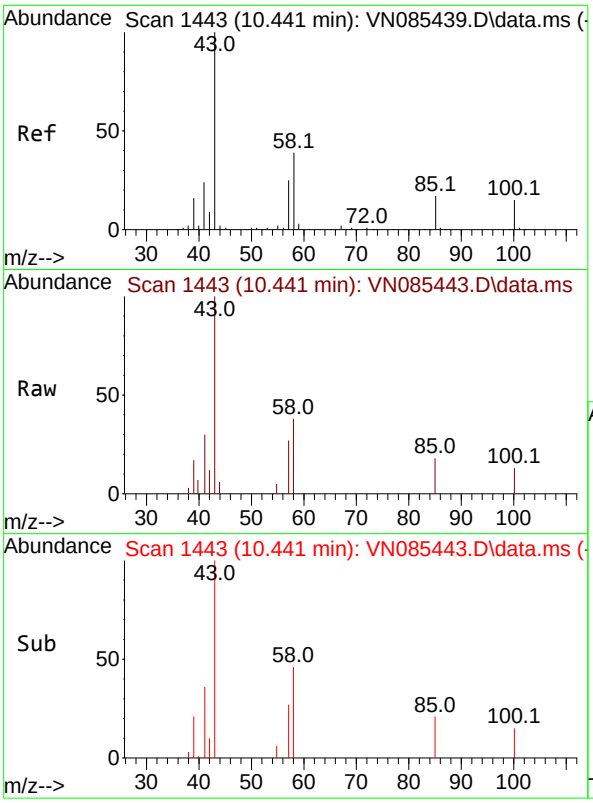


#50
Toluene-d8
Concen: 0.959 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 98 Resp: 7164

Ion	Ratio	Lower	Upper
98	100		
100	61.9	52.2	78.4



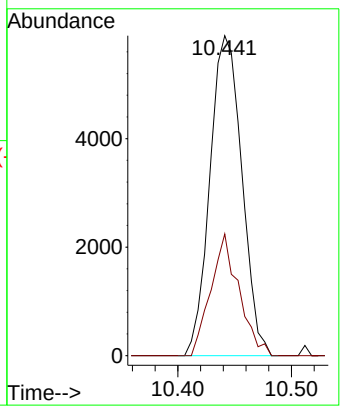


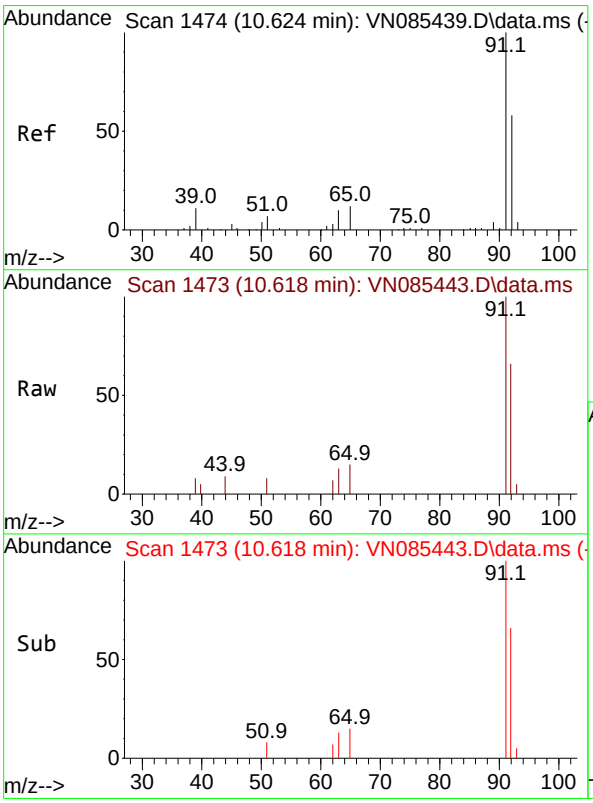
#51
4-Methyl-2-Pentanone
Concen: 4.163 ug/l
RT: 10.441 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 11523

Ion	Ratio	Lower	Upper
43	100		
58	33.6	30.5	45.7

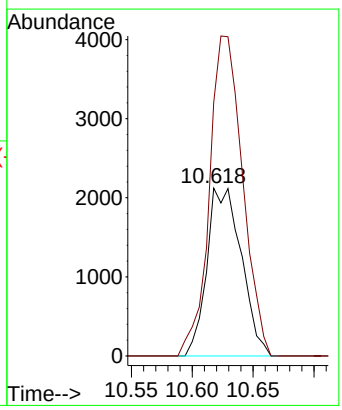


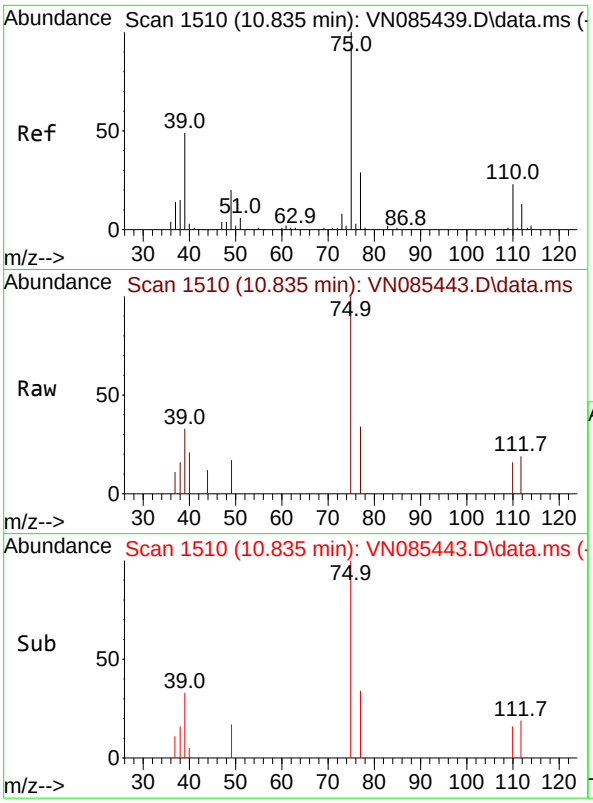


#52
Toluene
Concen: 0.814 ug/l
RT: 10.618 min Scan# 1473
Delta R.T. -0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 92 Resp: 4180

Ion	Ratio	Lower	Upper
92	100		
91	183.9	139.2	208.8



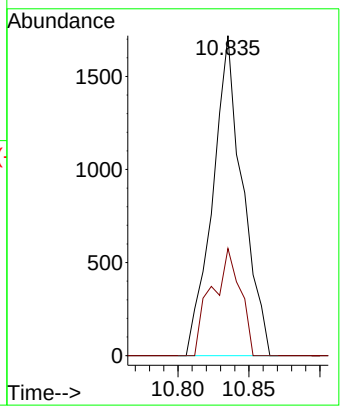


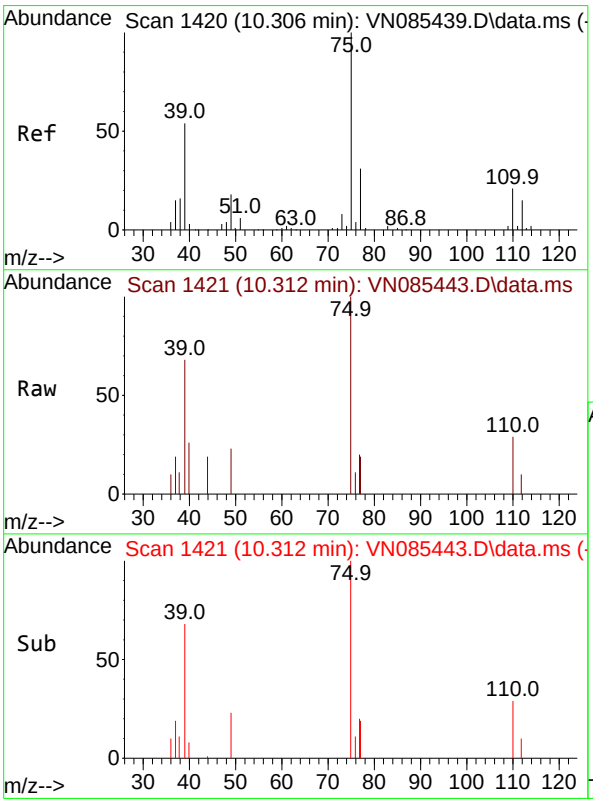
#53
t-1,3-Dichloropropene
Concen: 0.802 ug/l
RT: 10.835 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 75 Resp: 2522

Ion	Ratio	Lower	Upper
75	100		
77	33.5	23.5	35.3

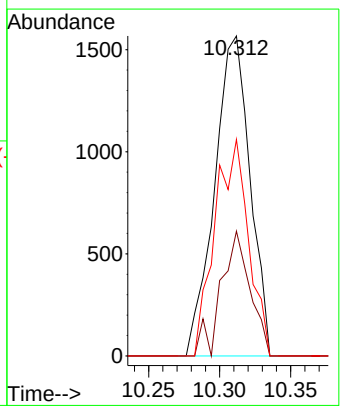


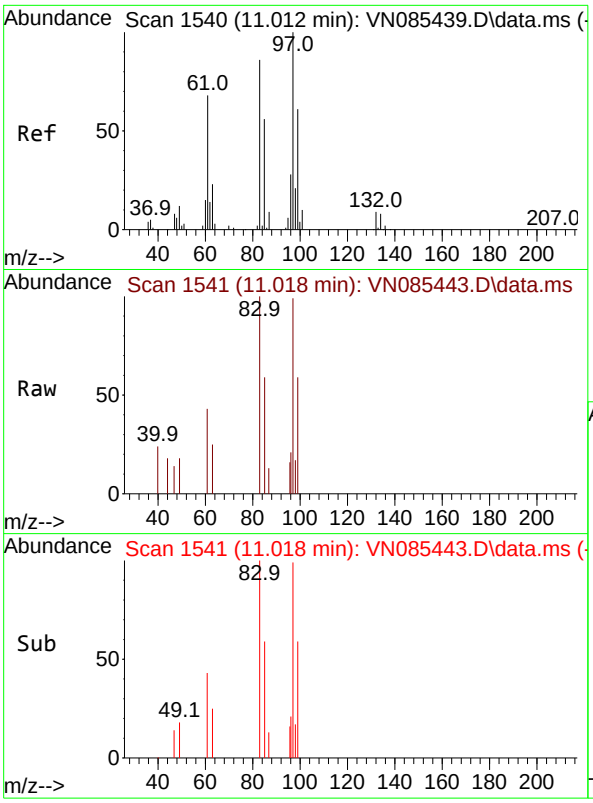


#54
cis-1,3-Dichloropropene
Concen: 0.811 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 75 Resp: 2725

Ion	Ratio	Lower	Upper
75	100		
77	39.0	25.0	37.4#
39	67.6	43.1	64.7#



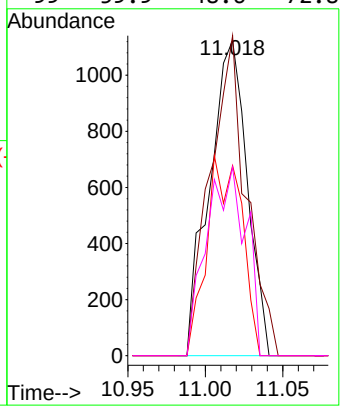


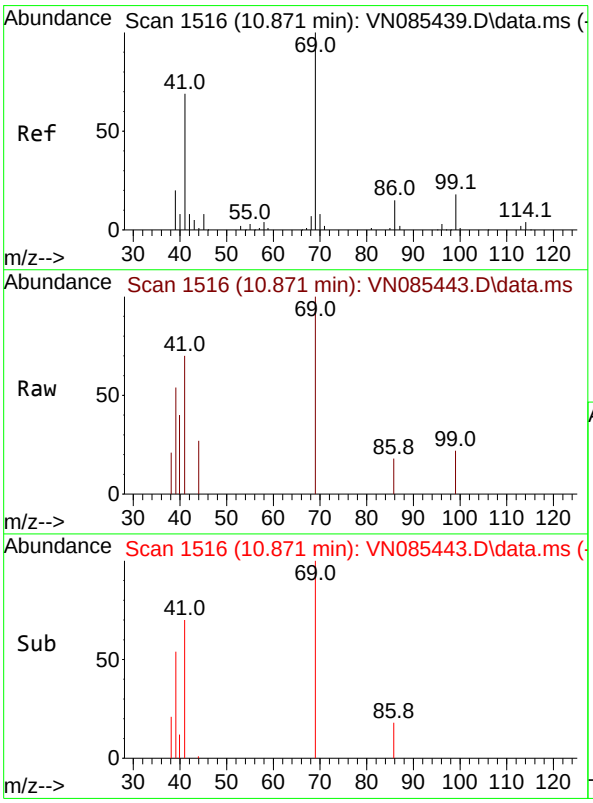
#55
1,1,2-Trichloroethane
Concen: 0.935 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 97 Resp: 1901

Ion	Ratio	Lower	Upper
97	100		
83	101.5	69.0	103.6
85	60.3	44.6	66.8
99	59.9	48.6	72.8

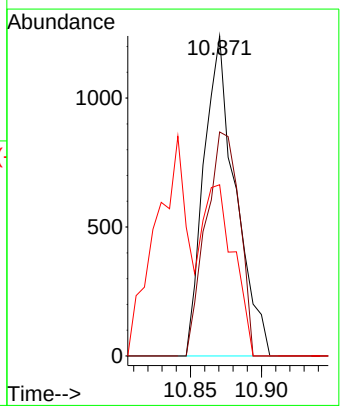


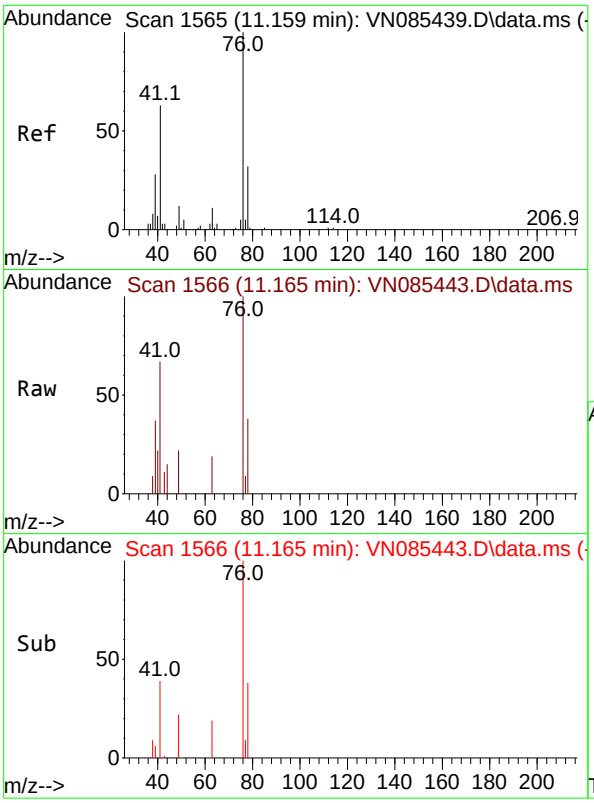


#56
Ethyl methacrylate
Concen: 2.471 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 69 Resp: 1923

Ion	Ratio	Lower	Upper
69	100		
41	74.4	54.6	82.0
39	52.4	32.4	48.6#



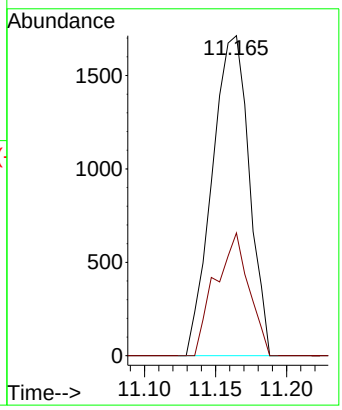


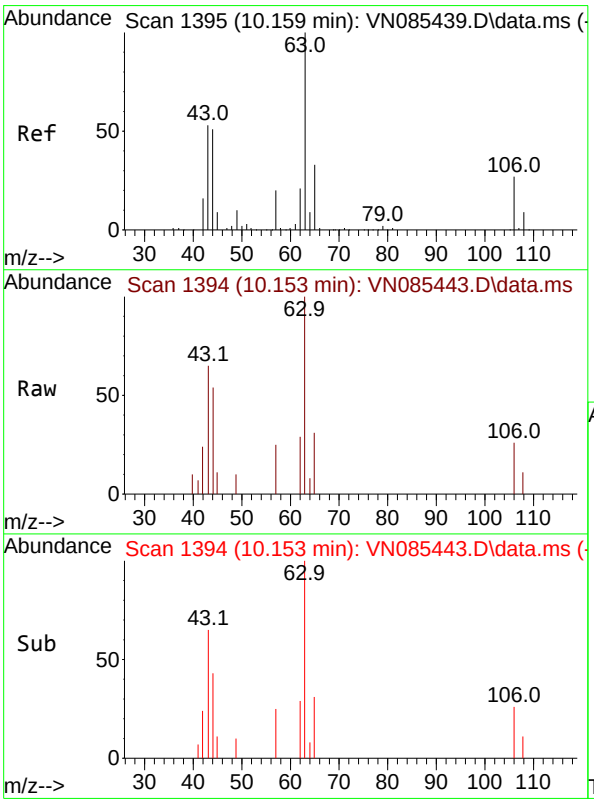
#57
1,3-Dichloropropane
Concen: 0.881 ug/l
RT: 11.165 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 76 Resp: 3113

Ion	Ratio	Lower	Upper
76	100		
78	34.9	25.6	38.4

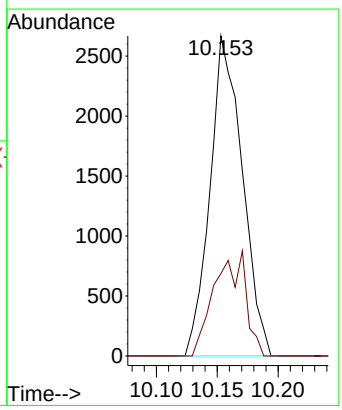


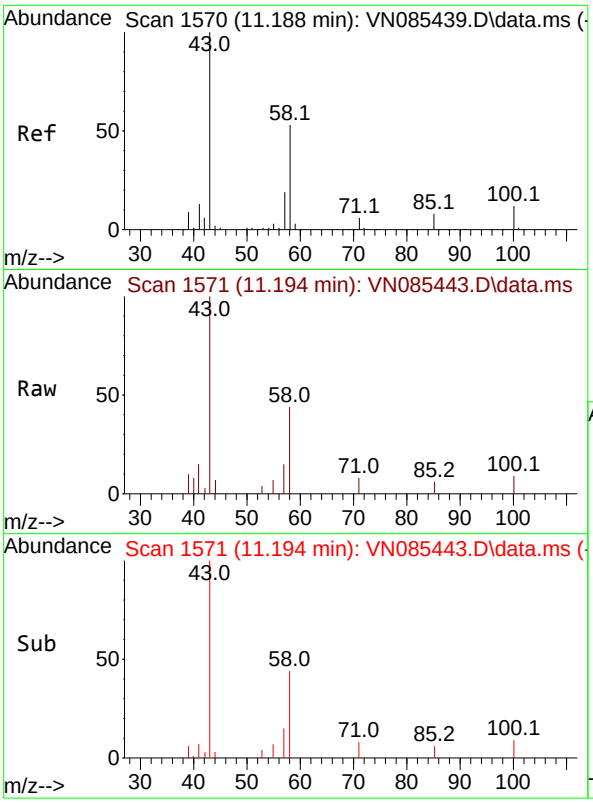


#58
2-Chloroethyl Vinyl ether
Concen: 3.822 ug/l
RT: 10.153 min Scan# 1394
Delta R.T. -0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 63 Resp: 4929

Ion	Ratio	Lower	Upper
63	100		
106	31.7	21.6	32.4



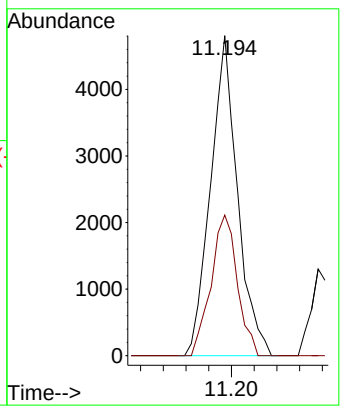


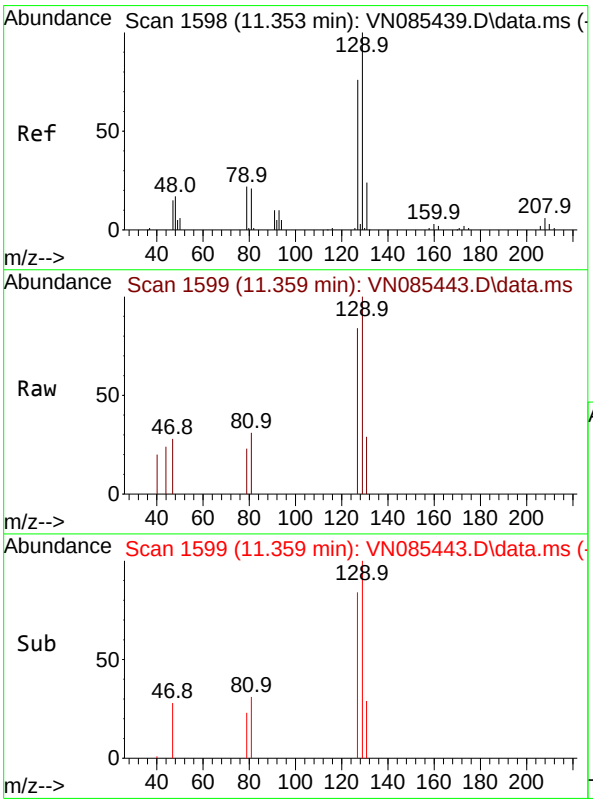
#59
2-Hexanone
Concen: 4.058 ug/l
RT: 11.194 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 7905

Ion	Ratio	Lower	Upper
43	100		
58	42.9	26.2	78.6

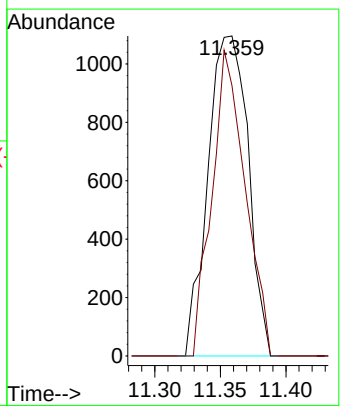


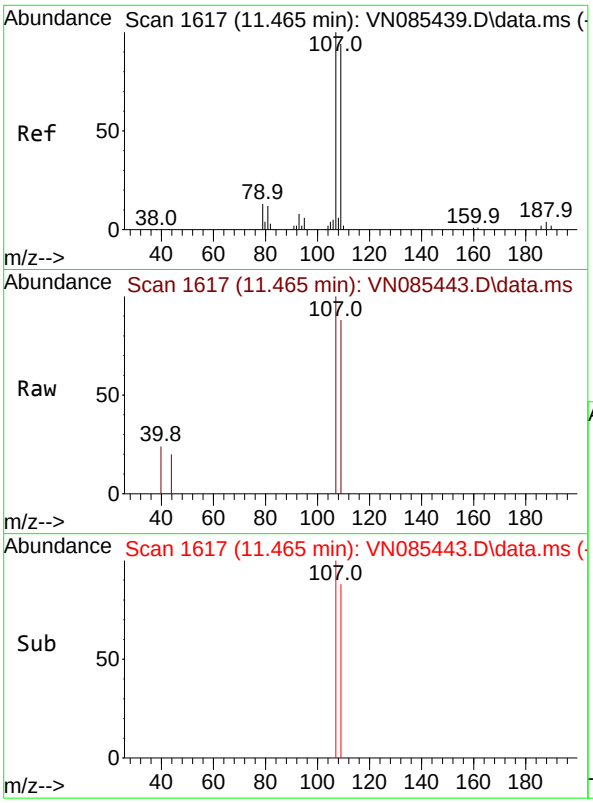


#60
Dibromochloromethane
Concen: 0.953 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion:129 Resp: 2339

Ion	Ratio	Lower	Upper
129	100		
127	78.9	38.6	115.8



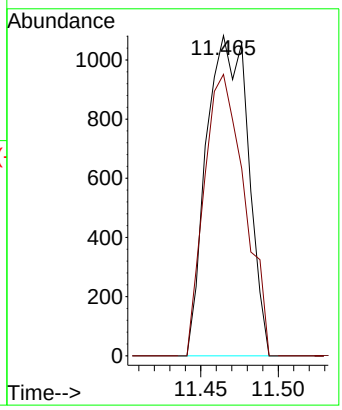


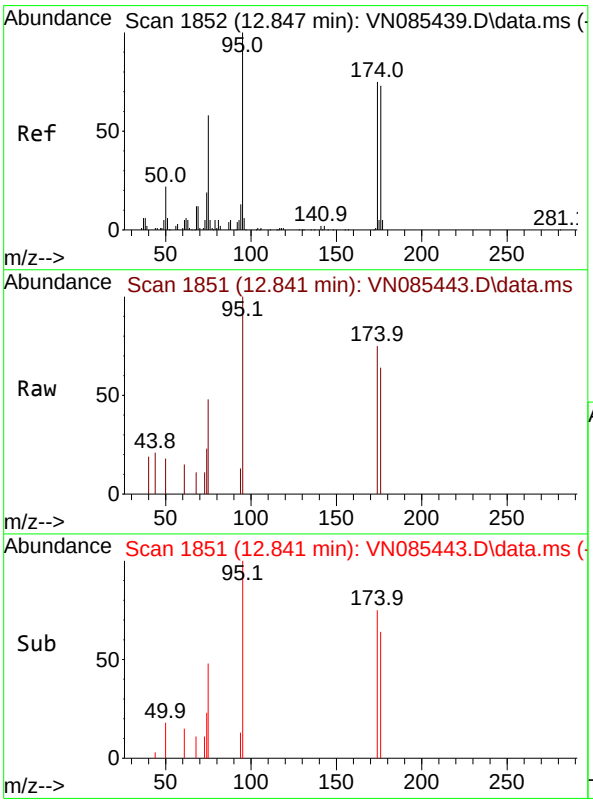
#61
1,2-Dibromoethane
Concen: 1.000 ug/l
RT: 11.465 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion:107 Resp: 2022

Ion	Ratio	Lower	Upper
107	100		
109	84.8	75.9	113.9

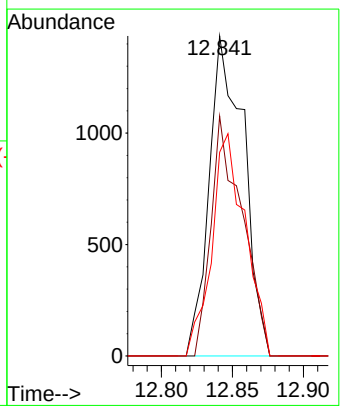


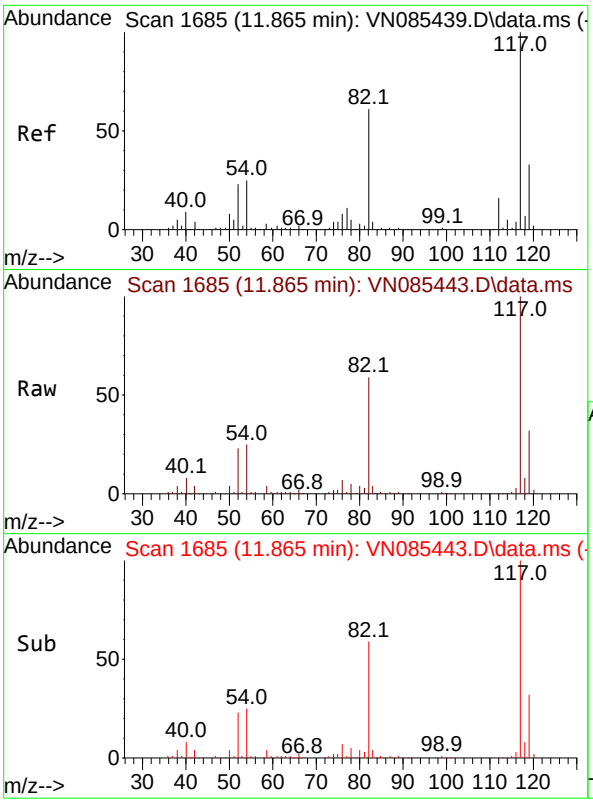


#62
4-Bromofluorobenzene
Concen: 0.951 ug/l
RT: 12.841 min Scan# 1851
Delta R.T. -0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 95 Resp: 2428

Ion	Ratio	Lower	Upper
95	100		
174	67.5	0.0	145.0
176	67.3	0.0	142.4



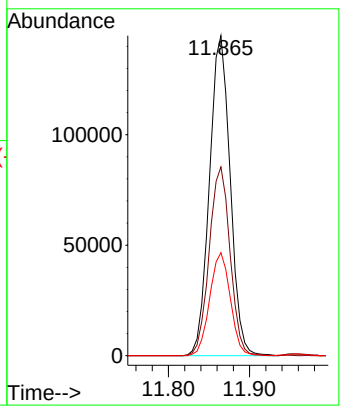


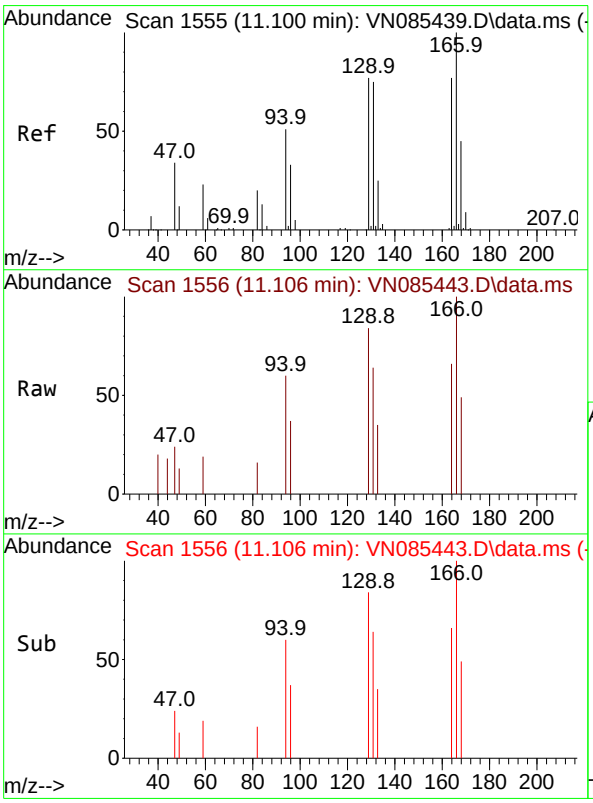
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion:117 Resp: 256851

Ion	Ratio	Lower	Upper
117	100		
82	59.0	48.6	72.8
119	32.2	26.6	39.8

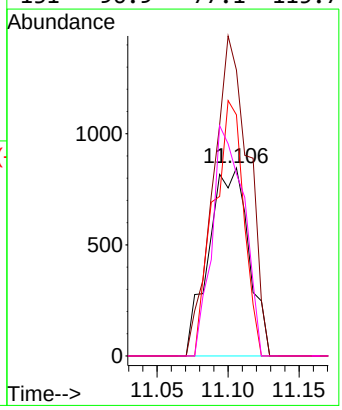


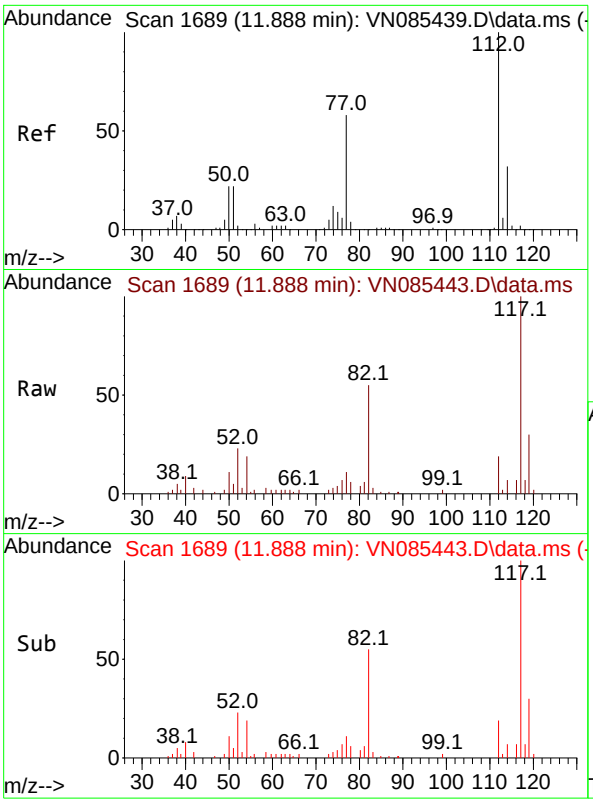


#64
Tetrachloroethene
Concen: 0.947 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion:164 Resp: 1658

Ion	Ratio	Lower	Upper
164	100		
166	152.1	103.4	155.2
129	128.3	79.2	118.8#
131	96.9	77.1	115.7



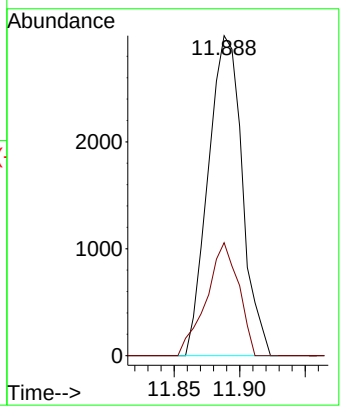


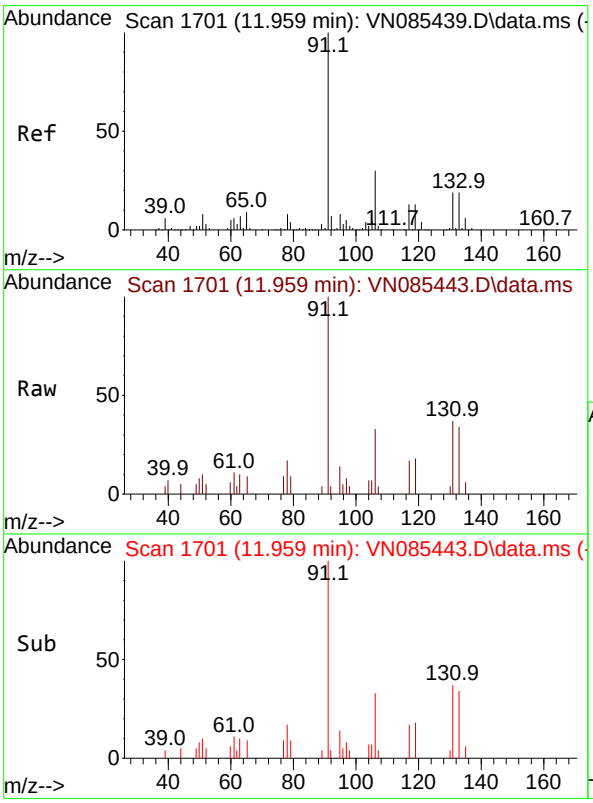
#65
Chlorobenzene
Concen: 0.960 ug/l
RT: 11.888 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion:112 Resp: 5401

Ion	Ratio	Lower	Upper
112	100		
114	35.3	25.3	37.9

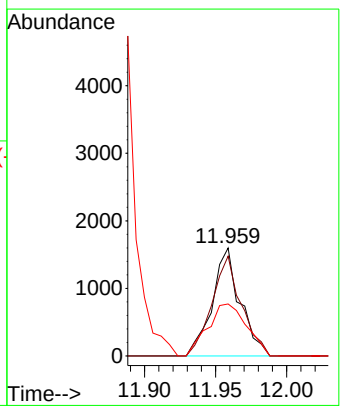


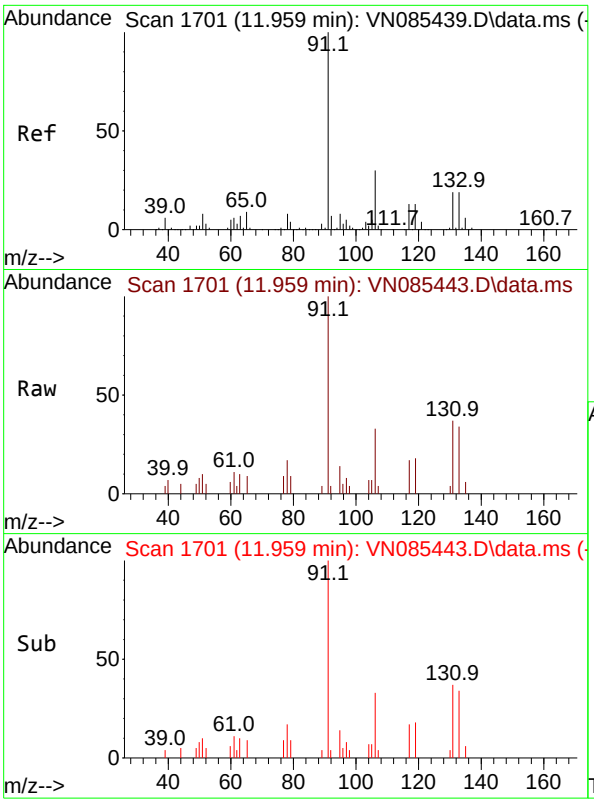


#66
1,1,1,2-Tetrachloroethane
Concen: 1.058 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion:131 Resp: 2185

Ion	Ratio	Lower	Upper
131	100		
133	97.7	47.4	142.3
119	0.0	33.1	99.5#



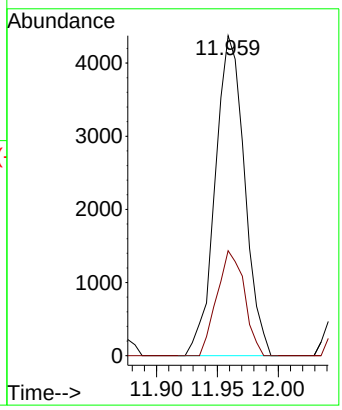


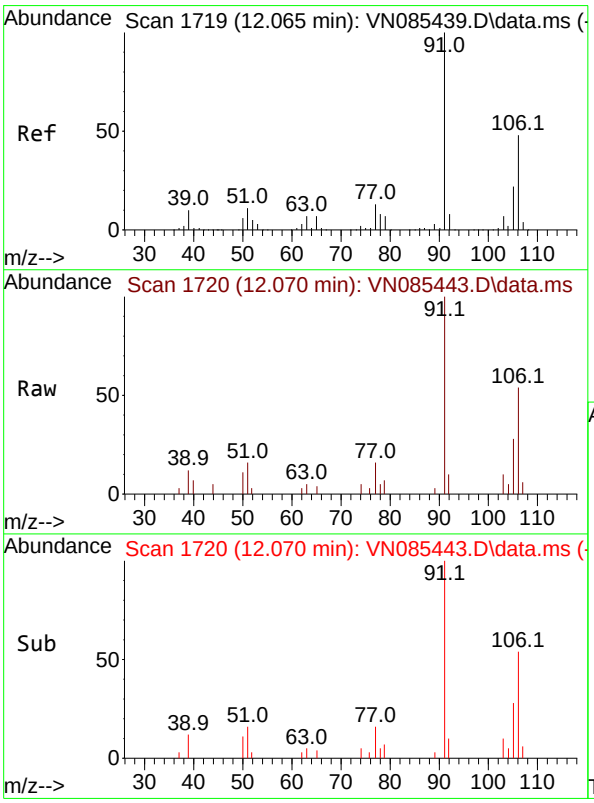
#67
Ethyl Benzene
Concen: 0.802 ug/l
RT: 11.959 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 91 Resp: 7347

Ion	Ratio	Lower	Upper
91	100		
106	32.8	23.8	35.8

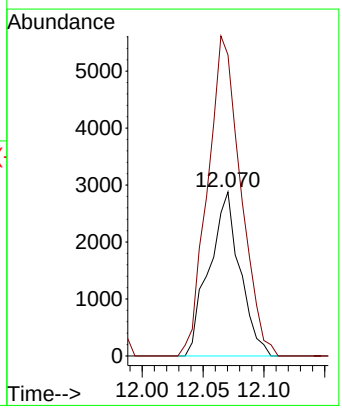


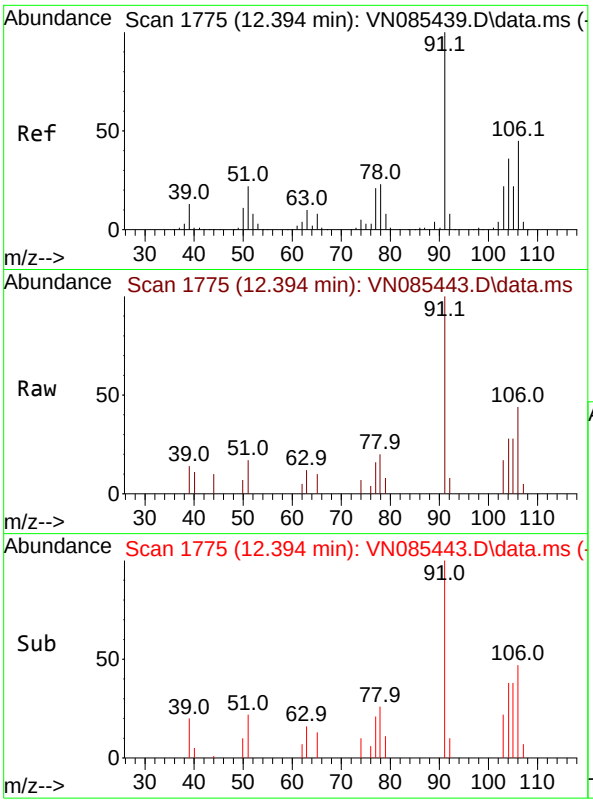


#68
m/p-Xylenes
Concen: 1.494 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion:106 Resp: 5059

Ion	Ratio	Lower	Upper
106	100		
91	209.3	167.7	251.5



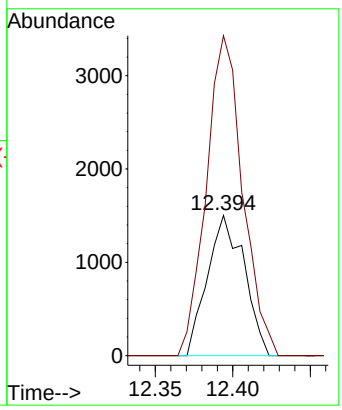


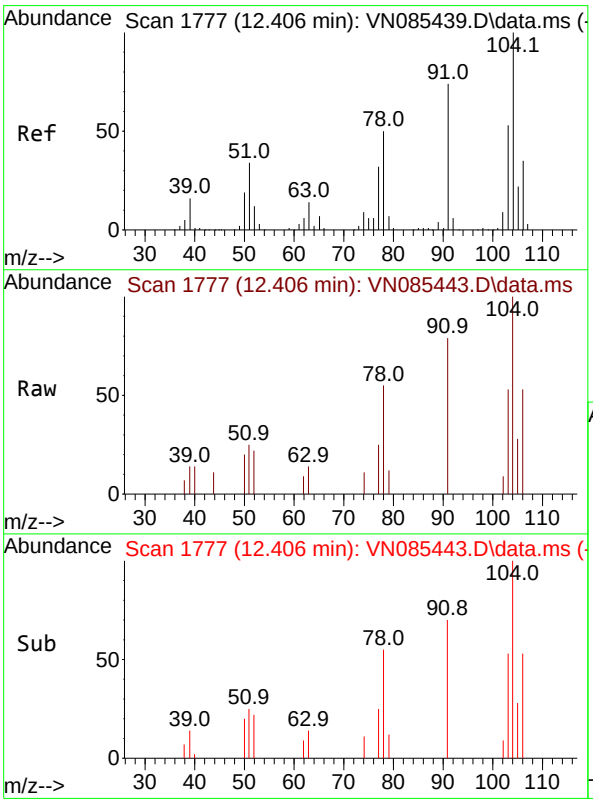
#69
o-Xylene
Concen: 0.766 ug/l
RT: 12.394 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion:106 Resp: 2478

Ion	Ratio	Lower	Upper
106	100		
91	225.4	110.4	331.2

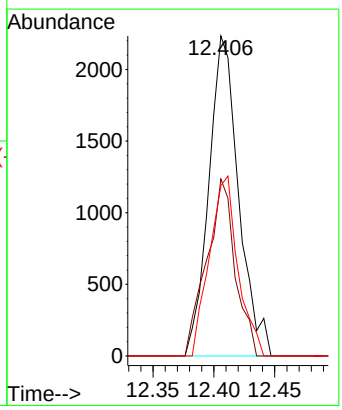


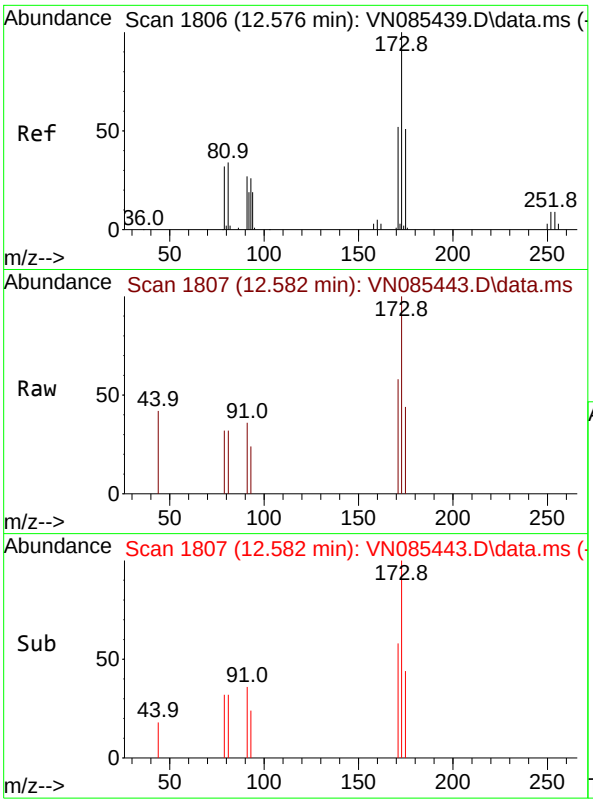


#70
Styrene
Concen: 0.712 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion:104 Resp: 3812

Ion	Ratio	Lower	Upper
104	100		
78	52.9	42.5	63.7
103	53.7	43.8	65.8



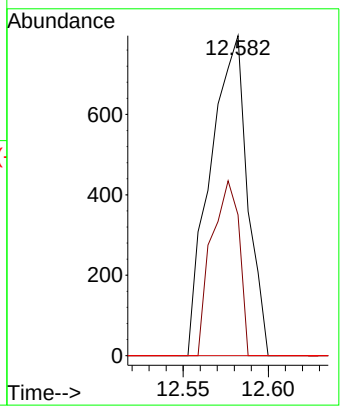


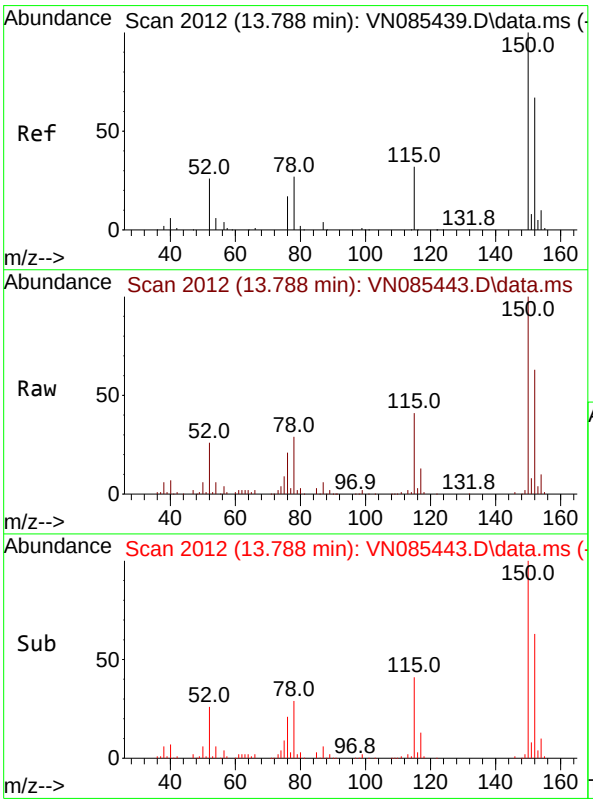
#71
Bromoform
Concen: 0.818 ug/l
RT: 12.582 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion:173 Resp: 1208

Ion	Ratio	Lower	Upper
173	100		
175	40.7	24.4	73.2
254	0.0	0.0	0.0

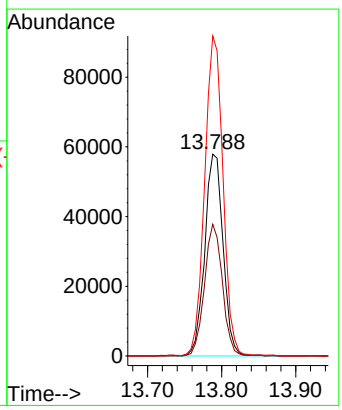


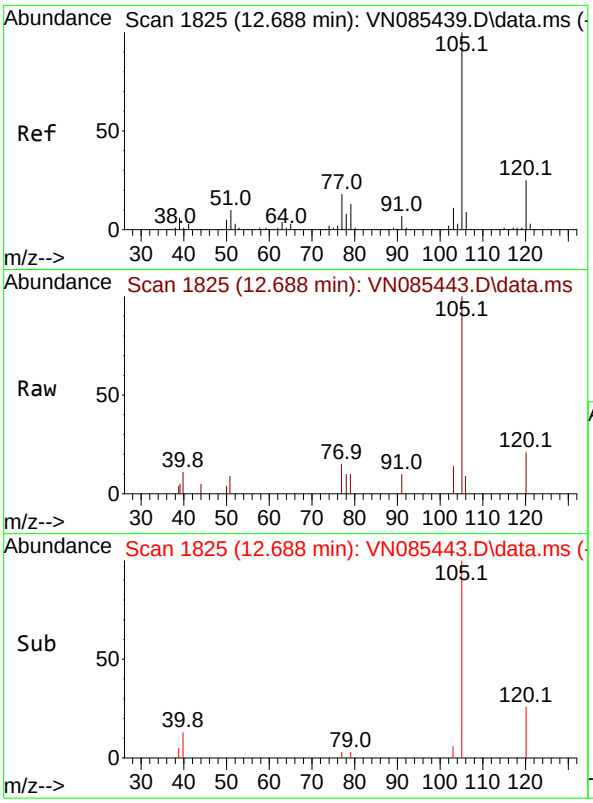


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion:152 Resp: 99539

Ion	Ratio	Lower	Upper
152	100		
115	63.8	31.1	93.3
150	158.5	0.0	343.6



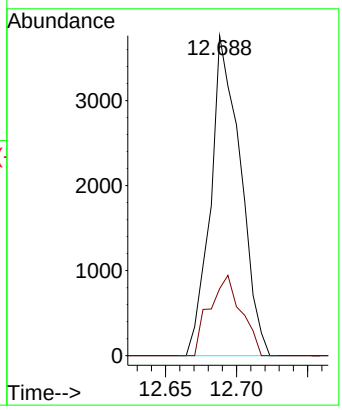


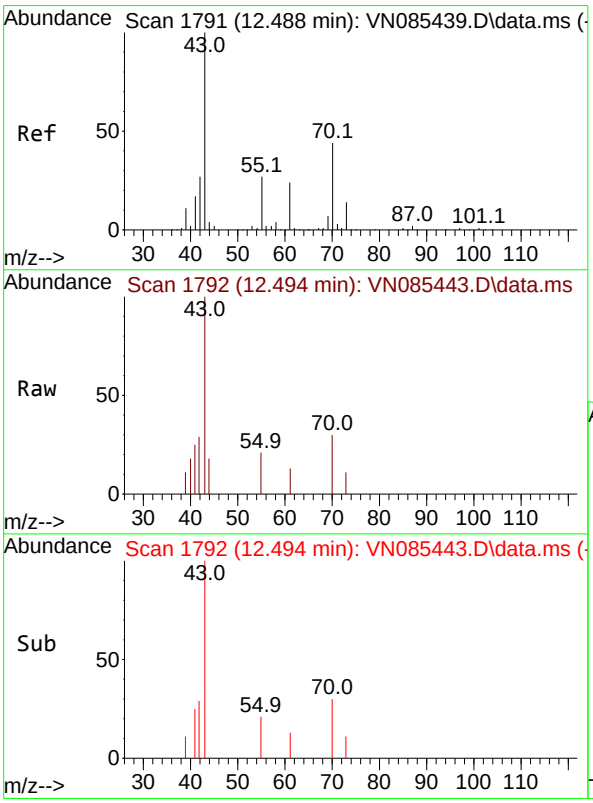
#73
Isopropylbenzene
Concen: 0.820 ug/l
RT: 12.688 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion:105 Resp: 5506

Ion	Ratio	Lower	Upper
105	100		
120	26.7	12.8	38.3

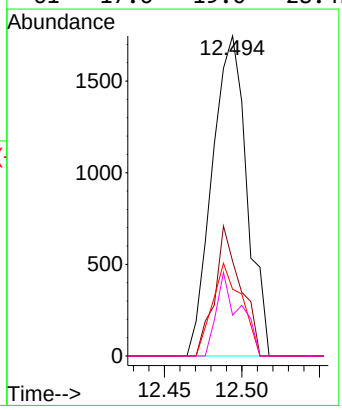


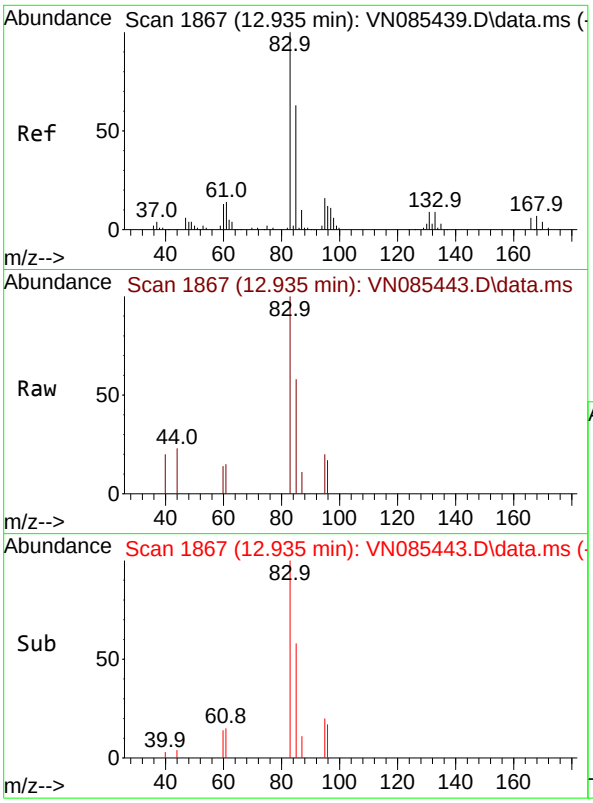


#74
N-amyl acetate
Concen: 0.899 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 43 Resp: 2716

Ion	Ratio	Lower	Upper
43	100		
70	30.4	34.0	51.0#
55	24.2	21.4	32.2
61	17.6	19.0	28.4#



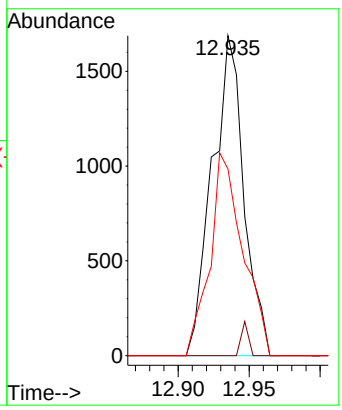


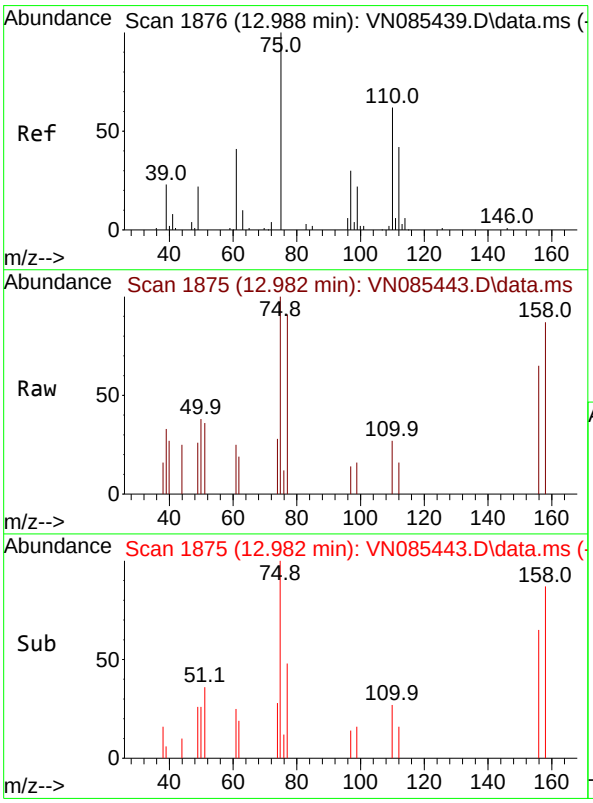
#75
1,1,2,2-Tetrachloroethane
Concen: 1.102 ug/l
RT: 12.935 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 83 Resp: 2616

Ion	Ratio	Lower	Upper
83	100		
131	2.4	4.8	14.4#
85	65.7	32.2	96.6

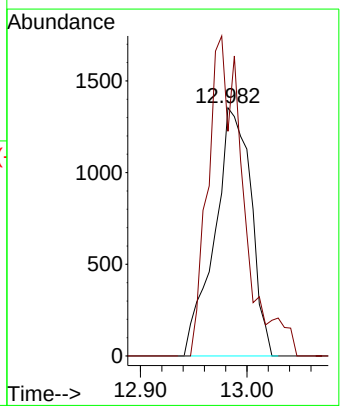


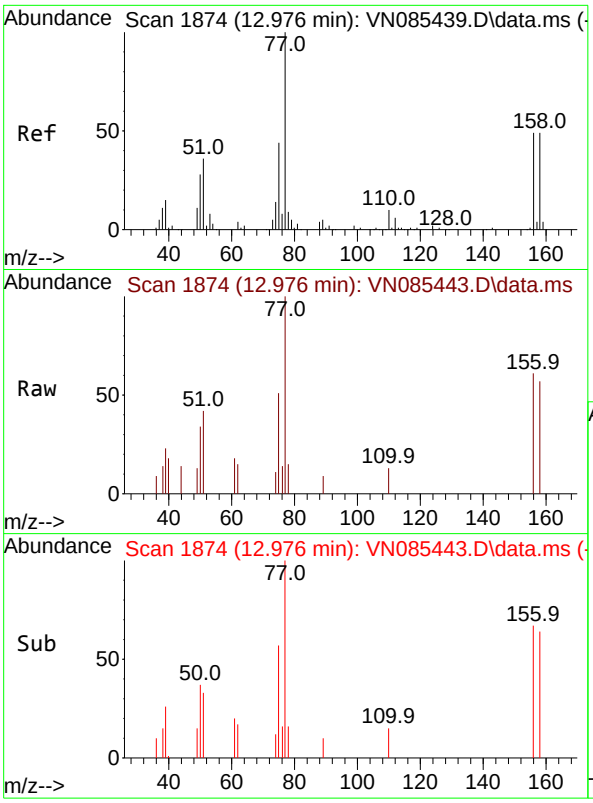


#76
1,2,3-Trichloropropane
Concen: 1.590 ug/l
RT: 12.982 min Scan# 1875
Delta R.T. -0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 75 Resp: 3212

Ion	Ratio	Lower	Upper
75	100		
77	126.0	109.7	329.2



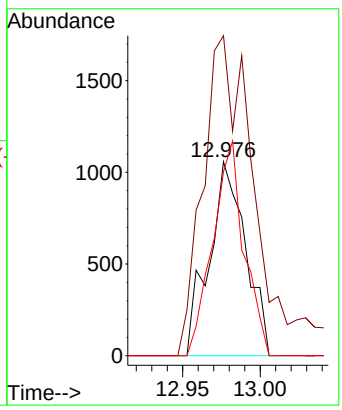


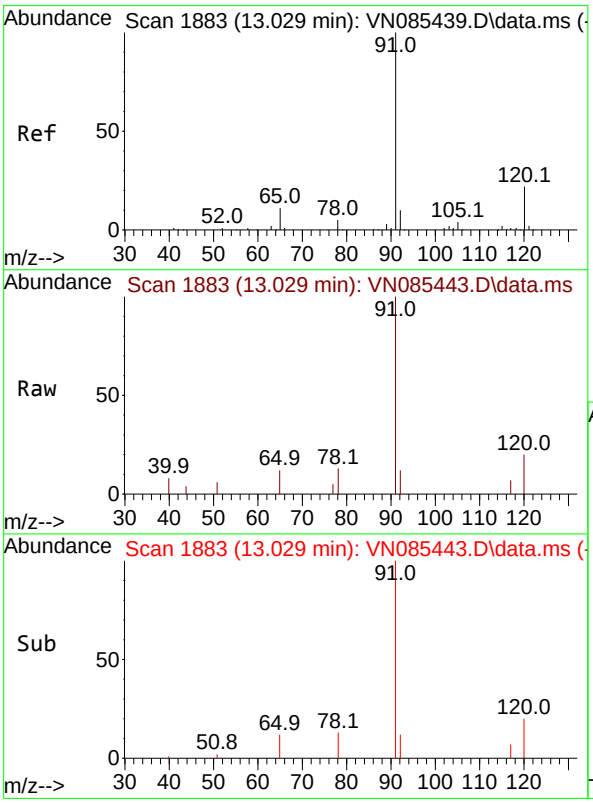
#77
Bromobenzene
Concen: 0.987 ug/l
RT: 12.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion:156 Resp: 1733

Ion	Ratio	Lower	Upper
156	100		
77	233.6	114.1	342.4
158	94.9	48.9	146.8

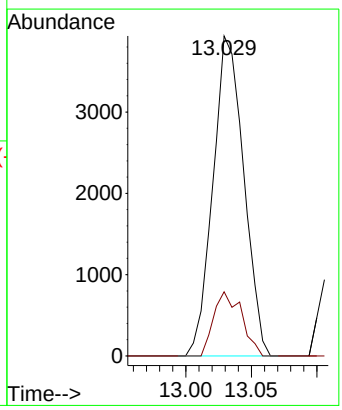


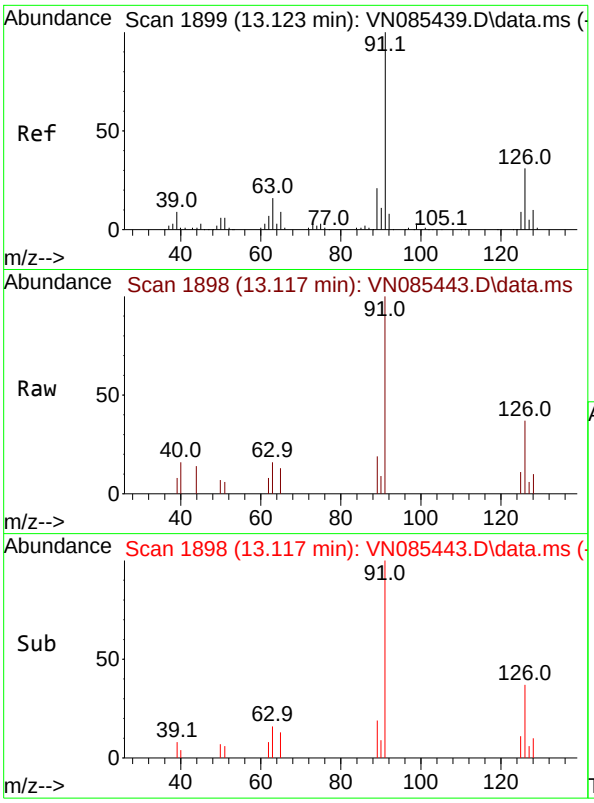


#78
n-propylbenzene
Concen: 0.808 ug/l
RT: 13.029 min Scan# 1883
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 91 Resp: 6424

Ion	Ratio	Lower	Upper
91	100		
120	18.2	10.9	32.6



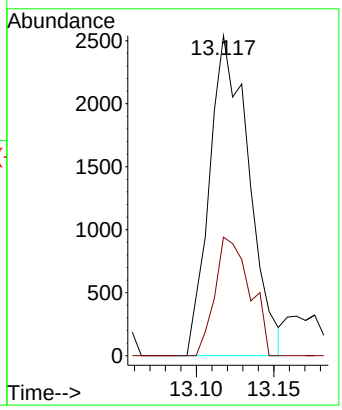


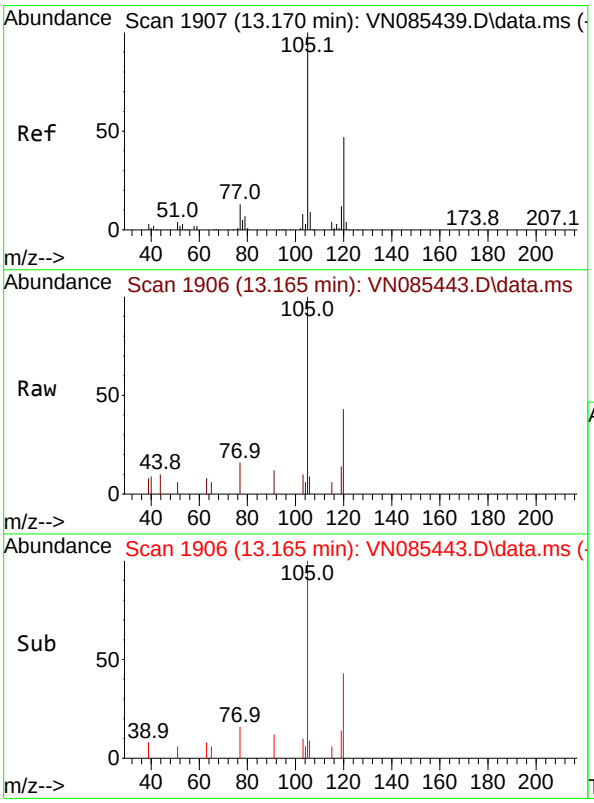
#79
2-Chlorotoluene
Concen: 0.871 ug/l
RT: 13.117 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 91 Resp: 4483

Ion	Ratio	Lower	Upper
91	100		
126	32.9	15.7	47.1

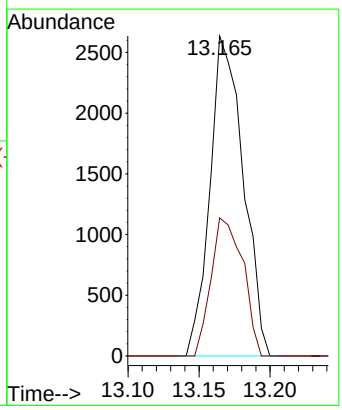


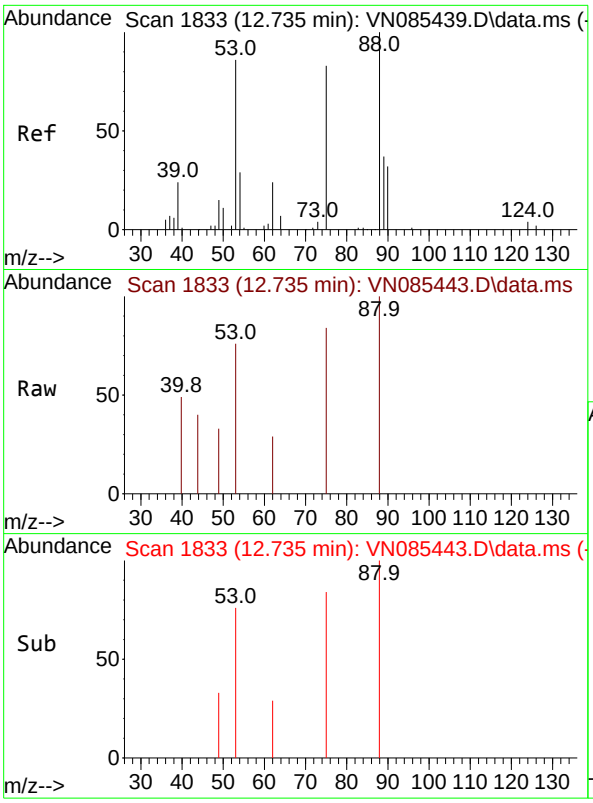


#80
1,3,5-Trimethylbenzene
Concen: 0.775 ug/l
RT: 13.165 min Scan# 1906
Delta R.T. -0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion:105 Resp: 4301

Ion	Ratio	Lower	Upper
105	100		
120	41.2	23.9	71.7



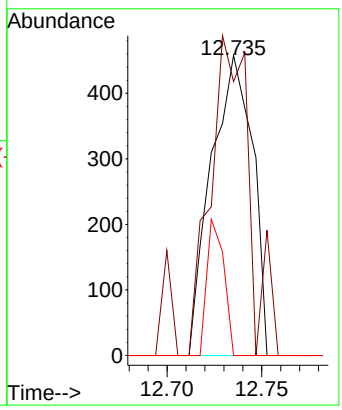


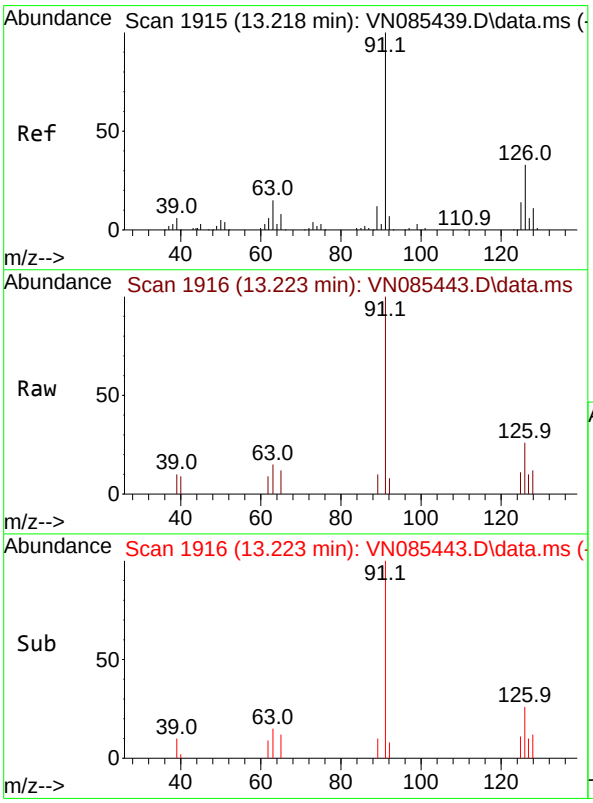
#81
trans-1,4-Dichloro-2-butene
Concen: 0.929 ug/l
RT: 12.735 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 75 Resp: 695

Ion	Ratio	Lower	Upper
75	100		
53	101.2	95.6	143.4
89	18.6	37.0	55.6#

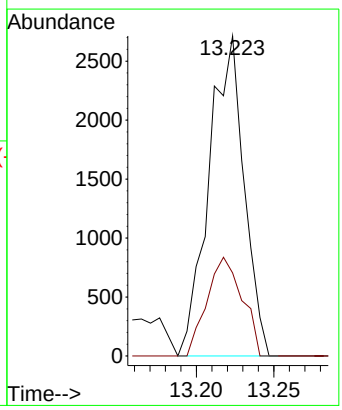


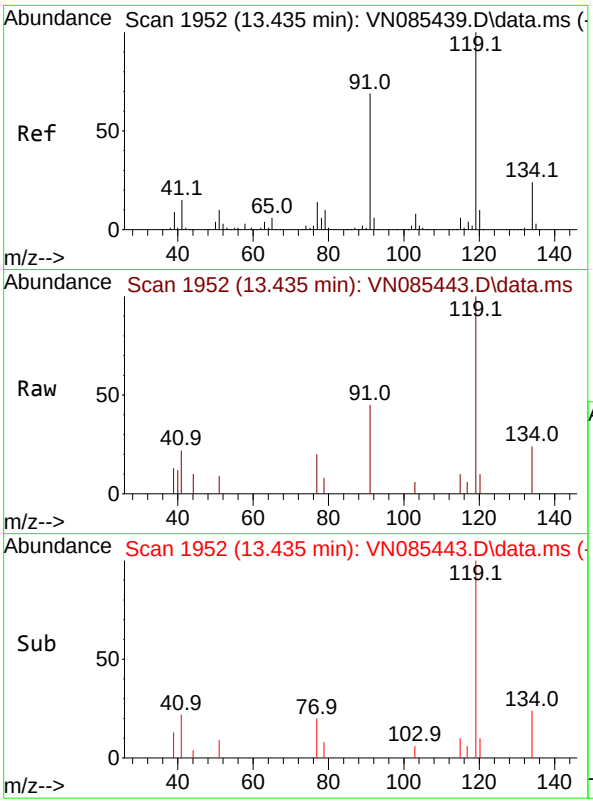


#82
4-Chlorotoluene
Concen: 0.833 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 91 Resp: 4268

Ion	Ratio	Lower	Upper
91	100		
126	31.0	15.9	47.7



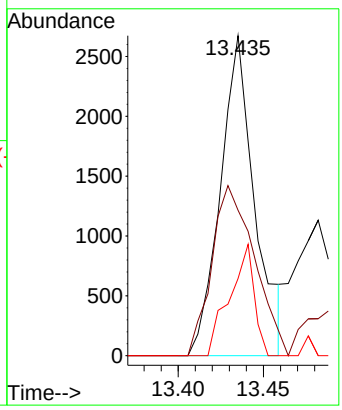


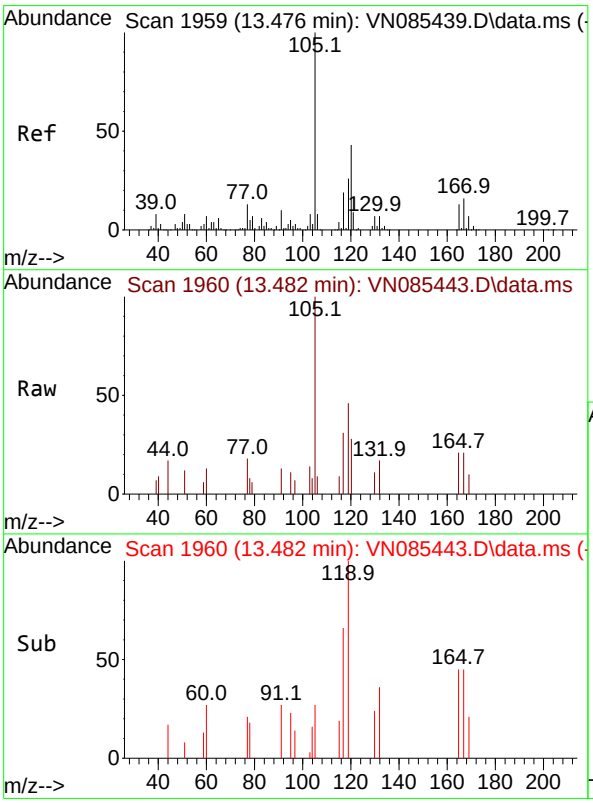
#83
tert-Butylbenzene
Concen: 0.805 ug/l
RT: 13.435 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion:119 Resp: 3753

Ion	Ratio	Lower	Upper
119	100		
91	65.9	35.1	105.3
134	24.9	12.0	36.1

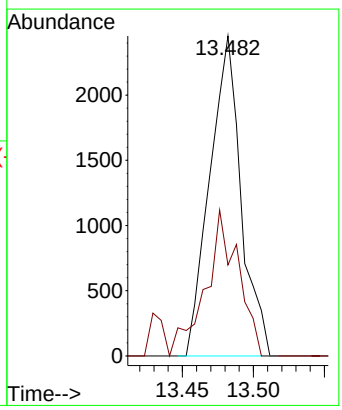


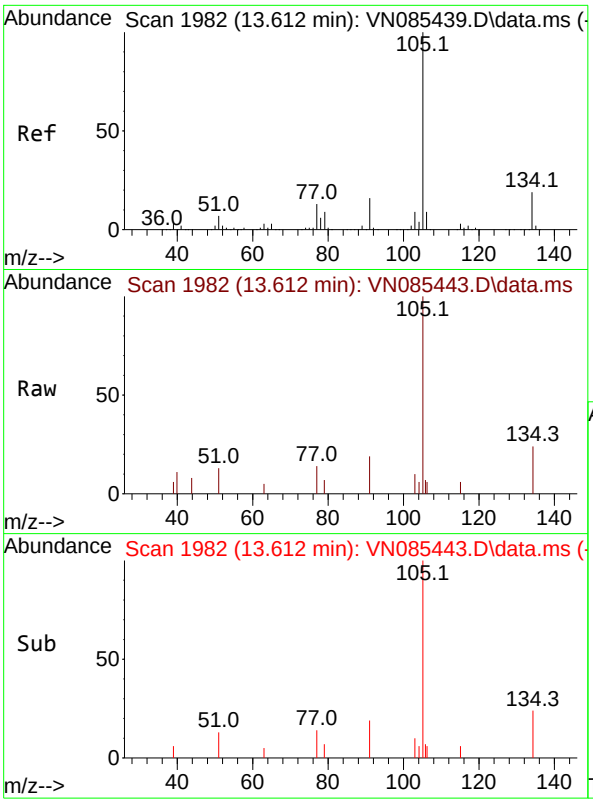


#84
1,2,4-Trimethylbenzene
Concen: 0.679 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion:105 Resp: 3758

Ion	Ratio	Lower	Upper
105	100		
120	47.7	21.6	65.0



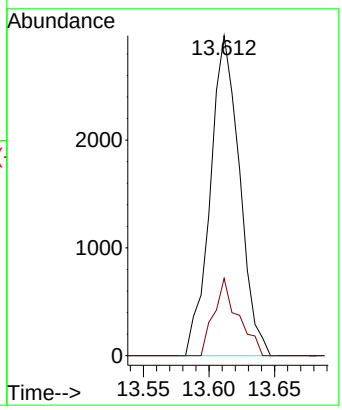


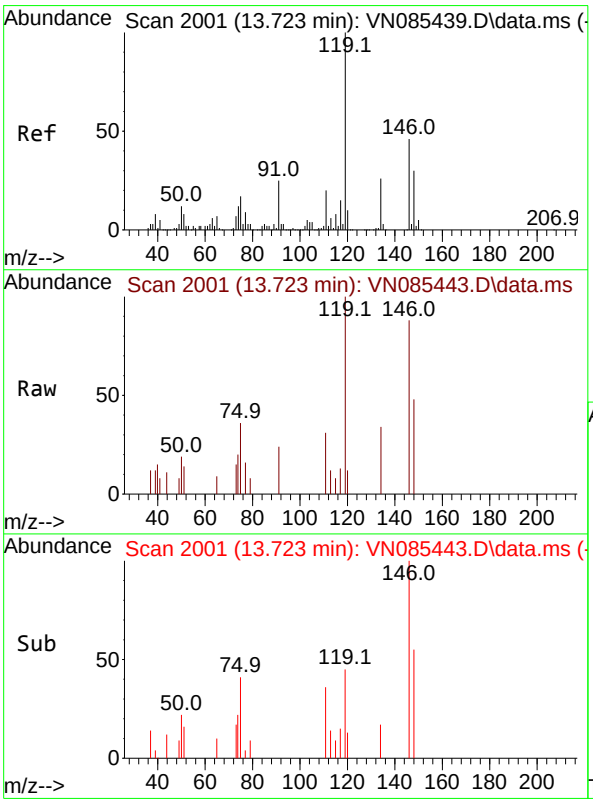
#85
sec-Butylbenzene
Concen: 0.714 ug/l
RT: 13.612 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion:105 Resp: 4614

Ion	Ratio	Lower	Upper
105	100		
134	19.9	9.7	28.9

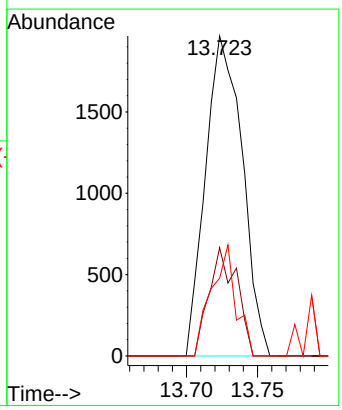


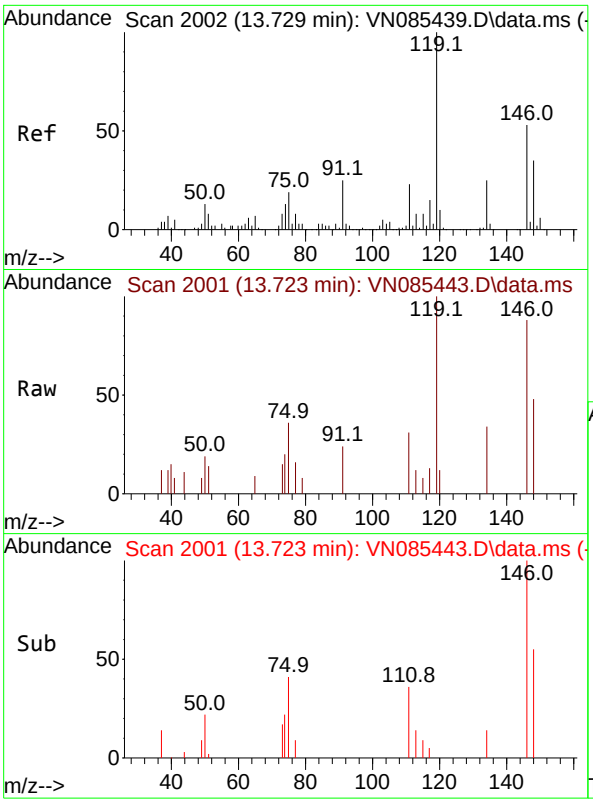


#86
p-Isopropyltoluene
Concen: 0.716 ug/l
RT: 13.723 min Scan# 2001
Delta R.T. 0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion:119 Resp: 3538

Ion	Ratio	Lower	Upper
119	100		
134	25.6	12.7	38.0
91	23.2	12.7	38.1



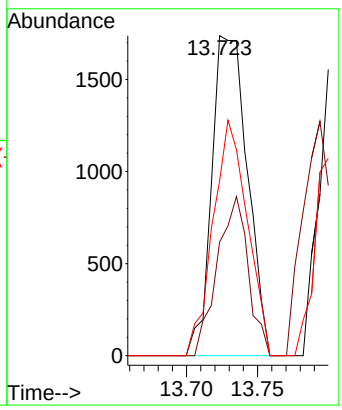


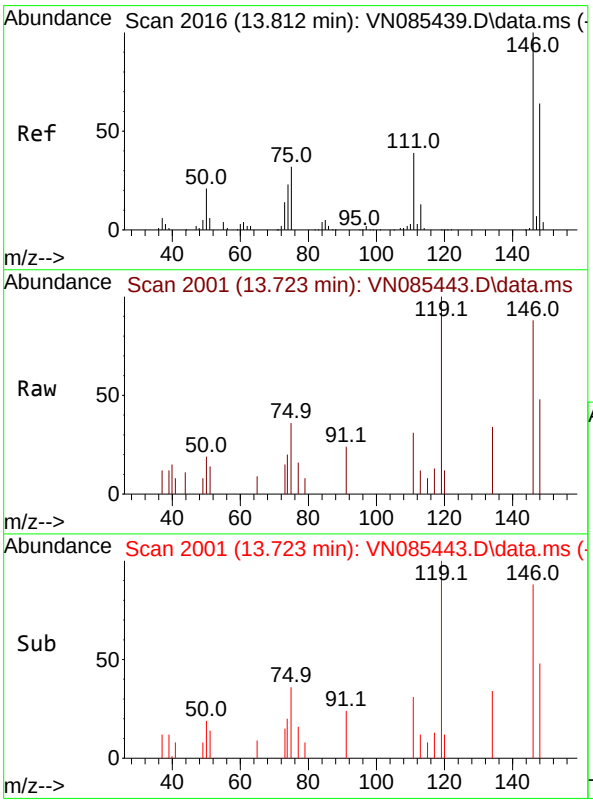
#87
1,3-Dichlorobenzene
Concen: 0.940 ug/l
RT: 13.723 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion:146 Resp: 3038

Ion	Ratio	Lower	Upper
146	100		
111	43.0	21.4	64.3
148	70.9	32.3	96.9

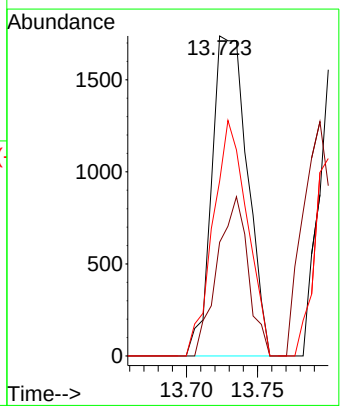


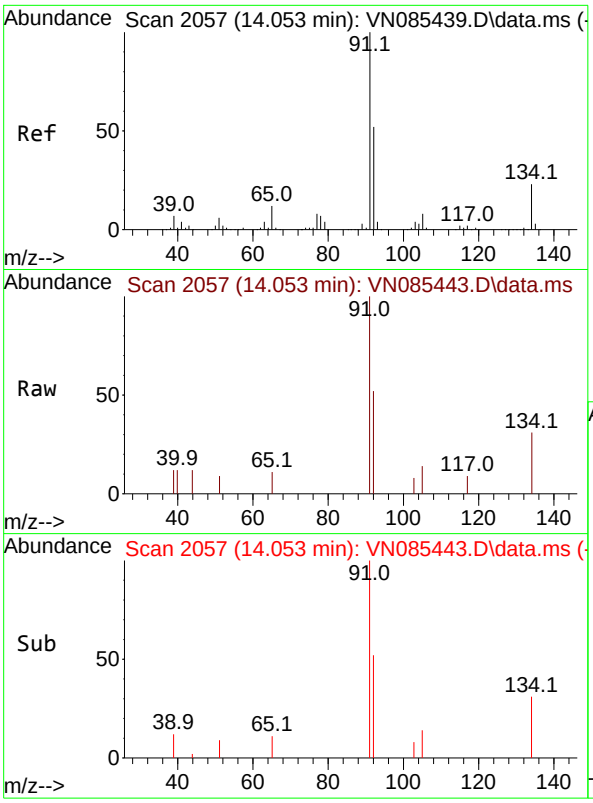


#88
1,4-Dichlorobenzene
Concen: 0.907 ug/l
RT: 13.723 min Scan# 2001
Delta R.T. -0.088 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion:146 Resp: 3038

Ion	Ratio	Lower	Upper
146	100		
111	43.0	21.3	63.7
148	70.9	32.4	97.0



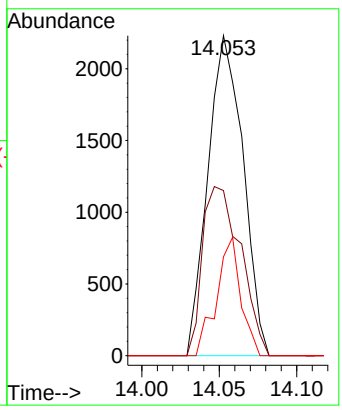


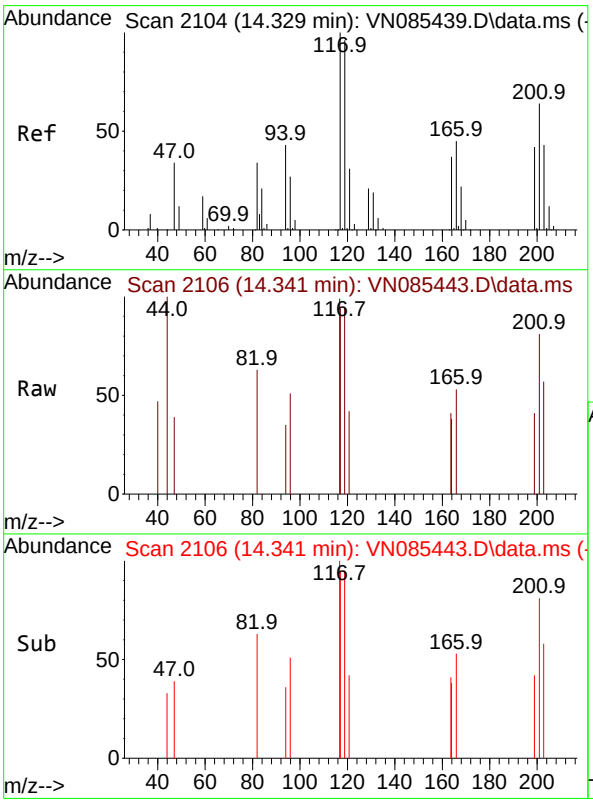
#89
n-Butylbenzene
Concen: 0.761 ug/l
RT: 14.053 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 91 Resp: 3527

Ion	Ratio	Lower	Upper
91	100		
92	57.2	25.8	77.3
134	25.5	11.7	35.1

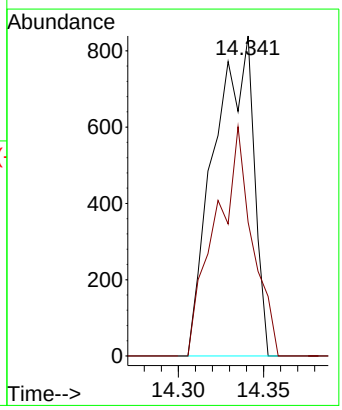


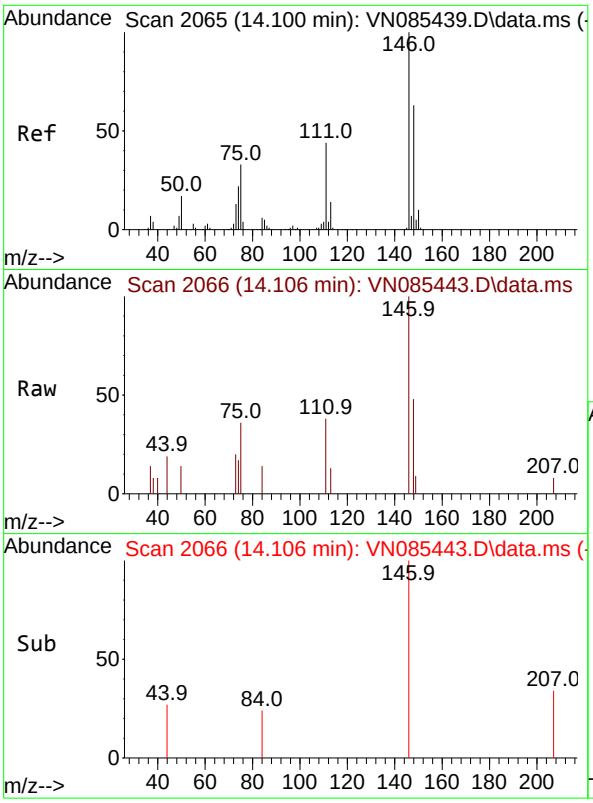


#90
Hexachloroethane
Concen: 1.102 ug/l
RT: 14.341 min Scan# 2106
Delta R.T. 0.012 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion:117 Resp: 1355

Ion	Ratio	Lower	Upper
117	100		
201	66.5	33.7	101.0



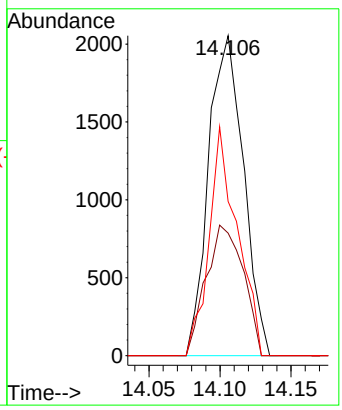


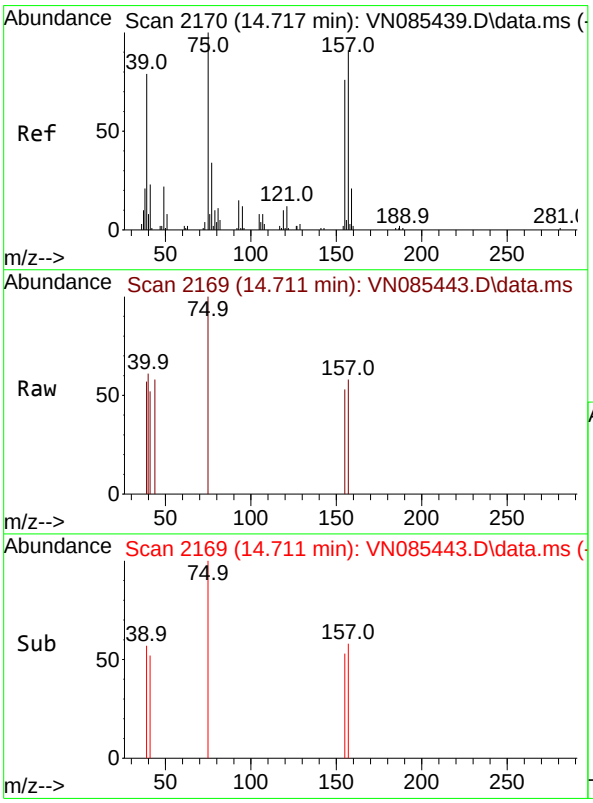
#91
1,2-Dichlorobenzene
Concen: 1.090 ug/l
RT: 14.106 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion:146 Resp: 3515

Ion	Ratio	Lower	Upper
146	100		
111	43.4	21.7	65.1
148	57.8	31.4	94.2

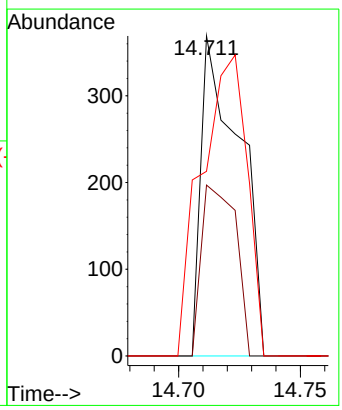


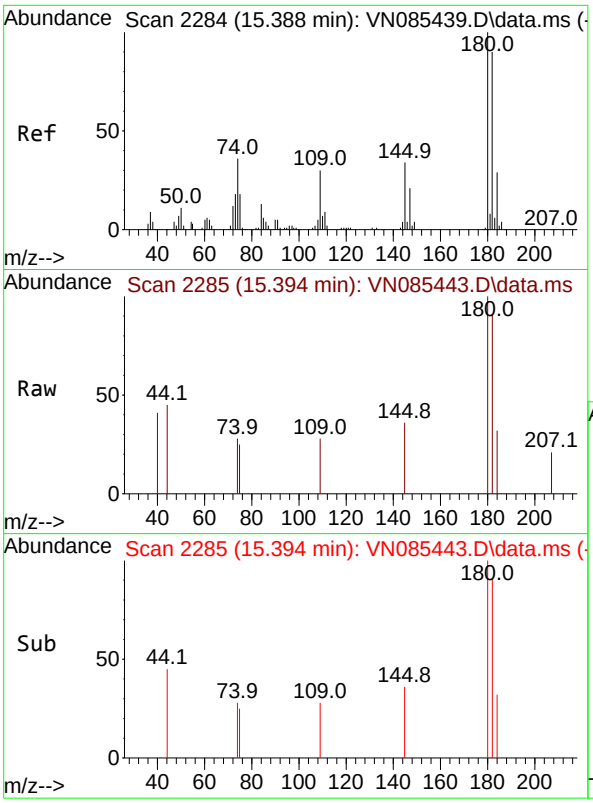


#92
1,2-Dibromo-3-Chloropropane
Concen: 0.928 ug/l
RT: 14.711 min Scan# 2169
Delta R.T. -0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 75 Resp: 402

Ion	Ratio	Lower	Upper
75	100		
155	48.0	36.4	109.2
157	112.7	45.4	136.1



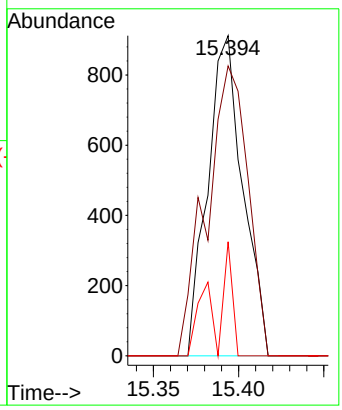


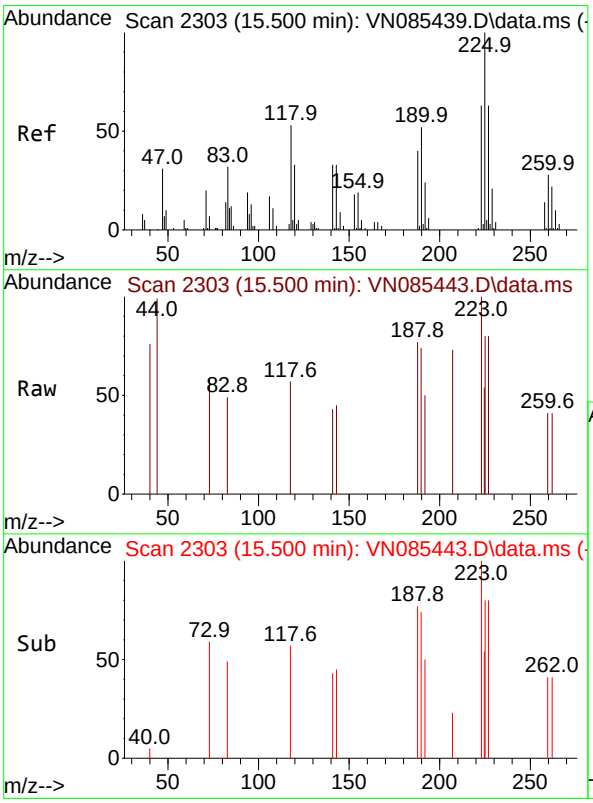
#93
1,2,4-Trichlorobenzene
Concen: 0.874 ug/l
RT: 15.394 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion:180 Resp: 1310

Ion	Ratio	Lower	Upper
180	100		
182	106.3	46.8	140.3
145	9.7	16.0	48.0#

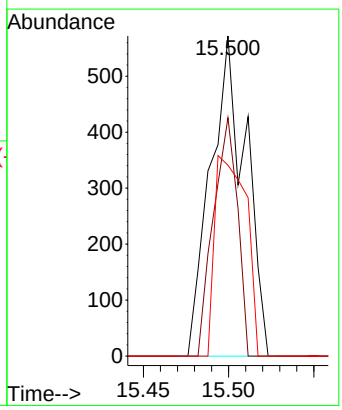


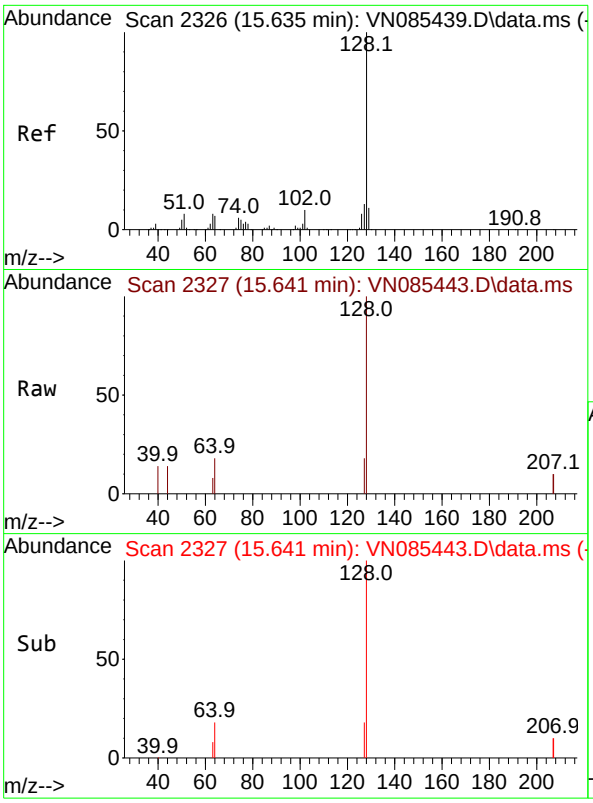


#94
Hexachlorobutadiene
Concen: 1.033 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion:225 Resp: 822

Ion	Ratio	Lower	Upper
225	100		
223	50.7	30.7	92.1
227	55.7	30.9	92.5



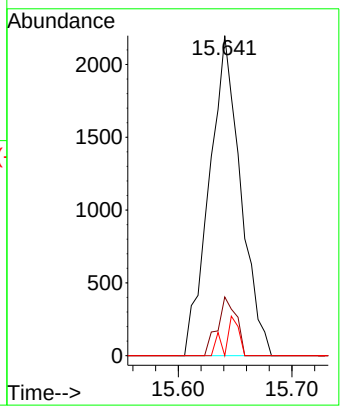


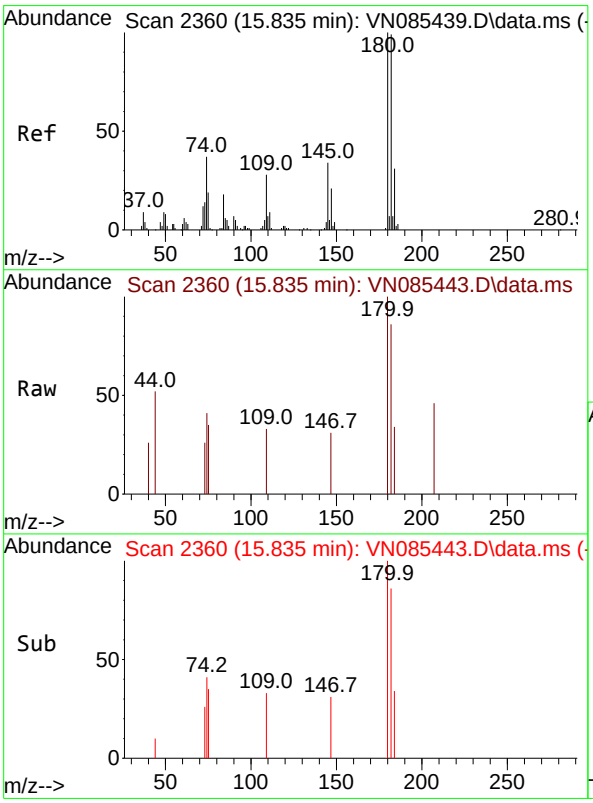
#95
Naphthalene
Concen: 0.941 ug/l
RT: 15.641 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion:128 Resp: 4210

Ion	Ratio	Lower	Upper
128	100		
127	11.1	10.6	16.0
129	5.3	8.8	13.2#

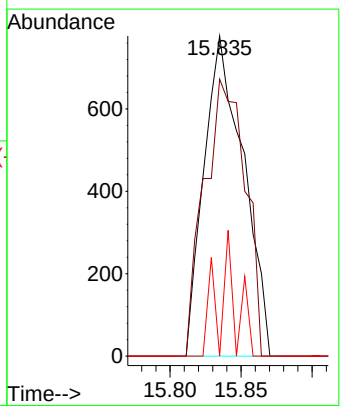




#96
1,2,3-Trichlorobenzene
Concen: 0.985 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion:180 Resp: 1494

Ion	Ratio	Lower	Upper
180	100		
182	90.2	47.4	142.2
145	11.8	16.9	50.7#



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085445.D
Acq On : 14 Jan 2025 18:06
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Quant Time: Jan 15 02:20:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.218	168	219757	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	370487	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	320948	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	158525	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	176594	49.782	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 99.560%			
35) Dibromofluoromethane	8.165	113	130487	50.768	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.540%			
50) Toluene-d8	10.565	98	477630	52.302	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 104.600%			
62) 4-Bromofluorobenzene	12.847	95	165249	52.899	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 105.800%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	130242	43.772	ug/l	100
3) Chloromethane	2.360	50	138152	42.883	ug/l	99
4) Vinyl Chloride	2.513	62	138316	42.715	ug/l	99
5) Bromomethane	2.954	94	80019	40.910	ug/l	91
6) Chloroethane	3.124	64	86837	42.299	ug/l	99
7) Trichlorofluoromethane	3.501	101	206526	43.956	ug/l	99
8) Diethyl Ether	3.959	74	69545	42.846	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.371	101	118310	44.706	ug/l	98
10) Methyl Iodide	4.595	142	140190	46.259	ug/l	98
11) Tert butyl alcohol	5.518	59	83933	206.633	ug/l	99
12) 1,1-Dichloroethene	4.342	96	106880	45.317	ug/l	98
13) Acrolein	4.177	56	135720	244.765	ug/l	99
14) Allyl chloride	5.024	41	170308	44.501	ug/l	99
15) Acrylonitrile	5.712	53	294062	227.920	ug/l	99
16) Acetone	4.418	43	245248	213.971	ug/l	98
17) Carbon Disulfide	4.712	76	300215	41.342	ug/l	100
18) Methyl Acetate	5.018	43	156938	45.028	ug/l	100
19) Methyl tert-butyl Ether	5.795	73	365819	47.768	ug/l	100
20) Methylene Chloride	5.271	84	122059	43.017	ug/l	98
21) trans-1,2-Dichloroethene	5.783	96	112597	44.672	ug/l	93
22) Diisopropyl ether	6.665	45	399206	46.996	ug/l	99
23) Vinyl Acetate	6.601	43	1471068	247.459	ug/l	100
24) 1,1-Dichloroethane	6.571	63	228489	44.114	ug/l	98
25) 2-Butanone	7.477	43	386125	228.924	ug/l	100
26) 2,2-Dichloropropane	7.489	77	199303	47.593	ug/l	99
27) cis-1,2-Dichloroethene	7.483	96	134920	45.446	ug/l	98
28) Bromochloromethane	7.812	49	106323	44.122	ug/l	100
29) Tetrahydrofuran	7.836	42	255650	239.065	ug/l	99
30) Chloroform	7.965	83	235923	44.071	ug/l	98
31) Cyclohexane	8.253	56	193034	42.878	ug/l	93
32) 1,1,1-Trichloroethane	8.165	97	208172	44.332	ug/l	99
36) 1,1-Dichloropropene	8.365	75	161834	44.863	ug/l	98
37) Ethyl Acetate	7.559	43	160656	44.123	ug/l	97
38) Carbon Tetrachloride	8.359	117	183592	44.456	ug/l	99
39) Methylcyclohexane	9.600	83	168431	49.687	ug/l	98
40) Benzene	8.600	78	494871	45.657	ug/l	99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085445.D
Acq On : 14 Jan 2025 18:06
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Quant Time: Jan 15 02:20:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.777	41	89326	47.155	ug/l		99
42) 1,2-Dichloroethane	8.665	62	185663	45.481	ug/l		100
43) Isopropyl Acetate	8.683	43	265107	45.440	ug/l		99
44) Trichloroethene	9.347	130	110058	43.622	ug/l		96
45) 1,2-Dichloropropane	9.618	63	123876	44.744	ug/l		97
46) Dibromomethane	9.700	93	88325	44.214	ug/l		98
47) Bromodichloromethane	9.889	83	185808	45.655	ug/l		99
48) Methyl methacrylate	9.677	41	131142	49.948	ug/l		97
49) 1,4-Dioxane	9.689	88	35051	792.760	ug/l		98
51) 4-Methyl-2-Pentanone	10.441	43	832426	245.877	ug/l		99
52) Toluene	10.630	92	301911	48.073	ug/l		99
53) t-1,3-Dichloropropene	10.830	75	183680	47.757	ug/l		94
54) cis-1,3-Dichloropropene	10.312	75	196307	47.783	ug/l		98
55) 1,1,2-Trichloroethane	11.012	97	114757	46.173	ug/l		97
56) Ethyl methacrylate	10.871	69	182170	43.762	ug/l		98
57) 1,3-Dichloropropane	11.159	76	202583	46.877	ug/l		100
58) 2-Chloroethyl Vinyl ether	10.159	63	403949	256.116	ug/l		99
59) 2-Hexanone	11.194	43	598433	251.213	ug/l		100
60) Dibromochloromethane	11.353	129	137831	45.935	ug/l		99
61) 1,2-Dibromoethane	11.465	107	110926	44.837	ug/l		100
64) Tetrachloroethene	11.100	164	98211	44.886	ug/l		96
65) Chlorobenzene	11.888	112	322723	45.901	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.959	131	115379	44.712	ug/l		99
67) Ethyl Benzene	11.959	91	577059	50.391	ug/l		97
68) m/p-Xylenes	12.071	106	437367	103.341	ug/l		100
69) o-Xylene	12.394	106	210698	52.093	ug/l		99
70) Styrene	12.406	104	355459	53.103	ug/l		100
71) Bromoform	12.577	173	90693	49.119	ug/l	#	100
73) Isopropylbenzene	12.694	105	534428	49.951	ug/l		99
74) N-amyl acetate	12.488	43	234342	48.730	ug/l		100
75) 1,1,2,2-Tetrachloroethane	12.935	83	164882	43.627	ug/l		100
76) 1,2,3-Trichloropropane	12.988	75	221480	68.739	ug/l		44
77) Bromobenzene	12.977	156	128968	46.138	ug/l		97
78) n-propylbenzene	13.029	91	645977	51.001	ug/l		100
79) 2-Chlorotoluene	13.124	91	392404	47.870	ug/l		99
80) 1,3,5-Trimethylbenzene	13.171	105	456048	51.604	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.735	75	66842	56.127	ug/l		86
82) 4-Chlorotoluene	13.218	91	398110	48.776	ug/l		100
83) tert-Butylbenzene	13.435	119	378478	50.997	ug/l		98
84) 1,2,4-Trimethylbenzene	13.477	105	457340	51.922	ug/l		100
85) sec-Butylbenzene	13.612	105	532578	51.777	ug/l		100
86) p-Isopropyltoluene	13.729	119	440284	47.795	ug/l		100
87) 1,3-Dichlorobenzene	13.729	146	236387	45.920	ug/l		99
88) 1,4-Dichlorobenzene	13.806	146	235319	44.102	ug/l		99
89) n-Butylbenzene	14.053	91	373227	50.578	ug/l		99
90) Hexachloroethane	14.329	117	88538	45.215	ug/l		100
91) 1,2-Dichlorobenzene	14.100	146	231646	45.113	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.718	75	31899	46.221	ug/l		97
93) 1,2,4-Trichlorobenzene	15.388	180	109157	45.739	ug/l		98
94) Hexachlorobutadiene	15.500	225	53358	42.112	ug/l		99
95) Naphthalene	15.641	128	335535	47.116	ug/l		100
96) 1,2,3-Trichlorobenzene	15.835	180	107583	44.551	ug/l		99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085445.D
Acq On : 14 Jan 2025 18:06
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Quant Time: Jan 15 02:20:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

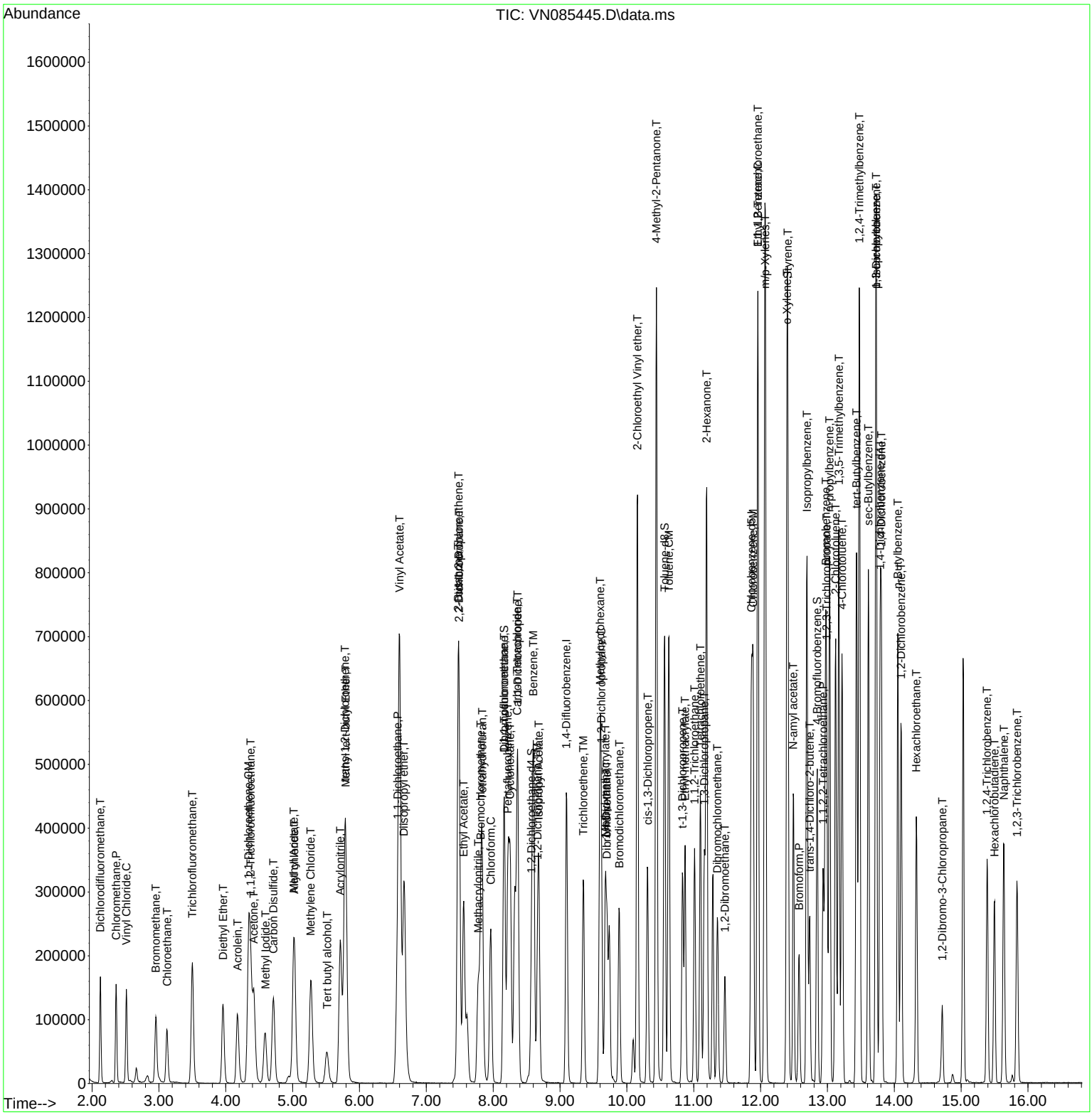
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

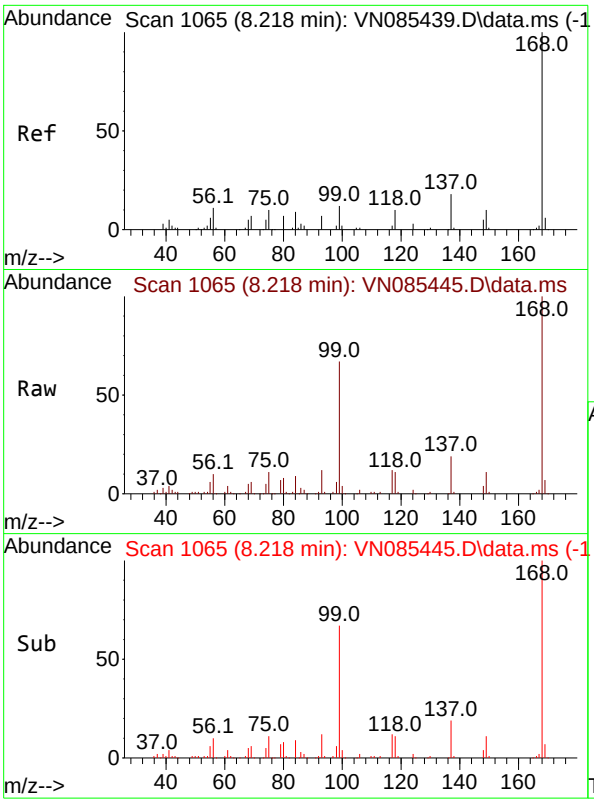
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085445.D
Acq On : 14 Jan 2025 18:06
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Quant Time: Jan 15 02:20:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration



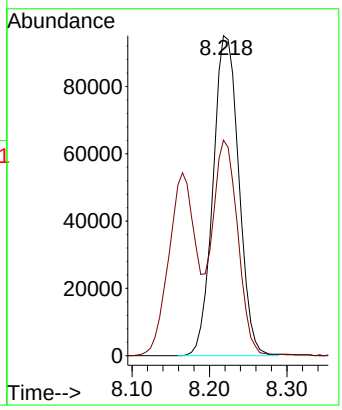


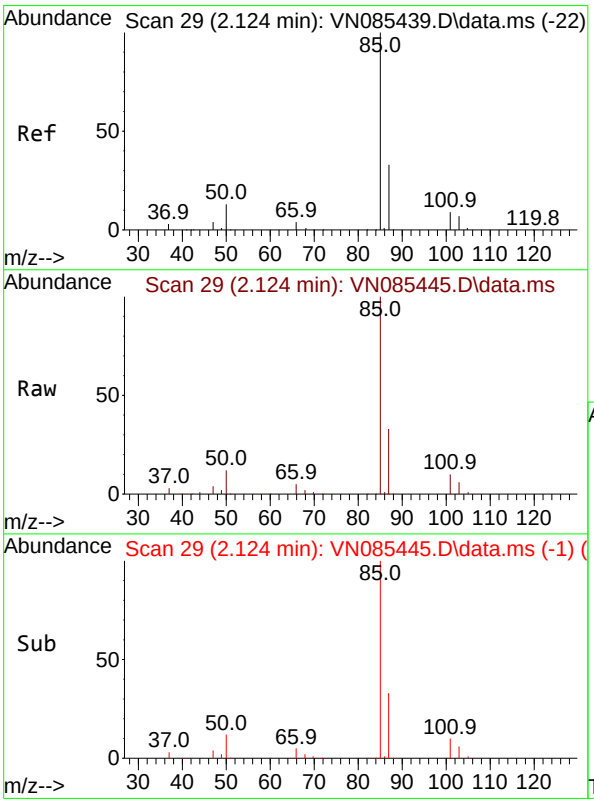
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Tgt Ion:168 Resp: 219757

Ion	Ratio	Lower	Upper
168	100		
99	66.9	53.6	80.4

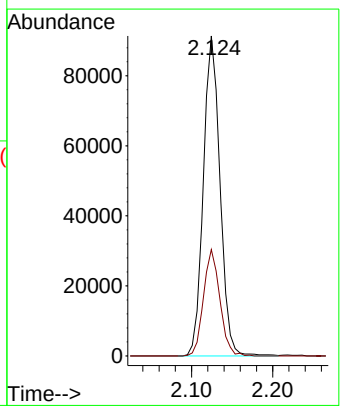


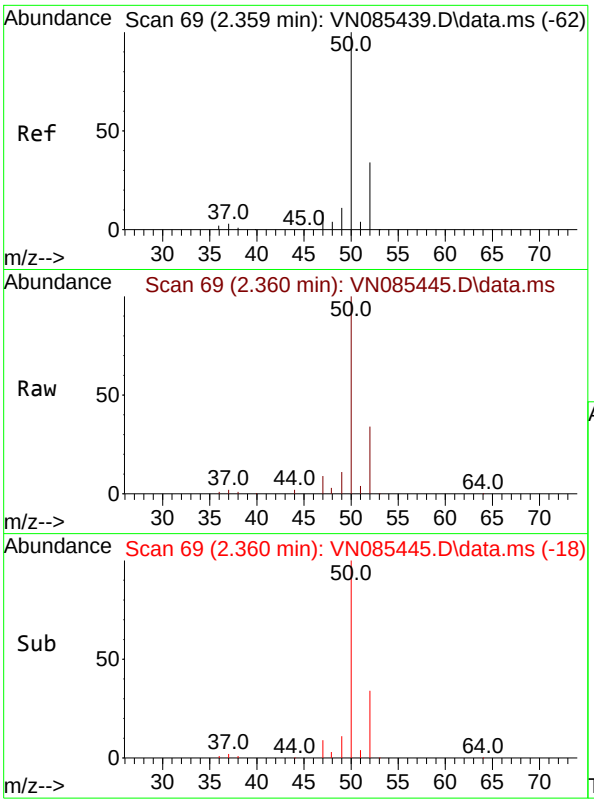


#2
Dichlorodifluoromethane
Concen: 43.772 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 85 Resp: 130242

Ion	Ratio	Lower	Upper
85	100		
87	33.2	16.7	50.1



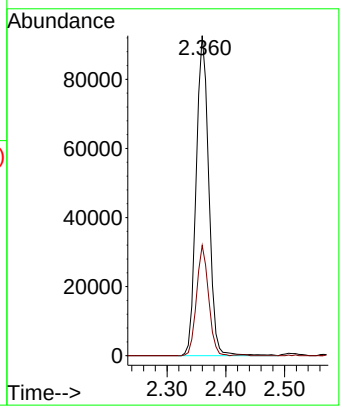


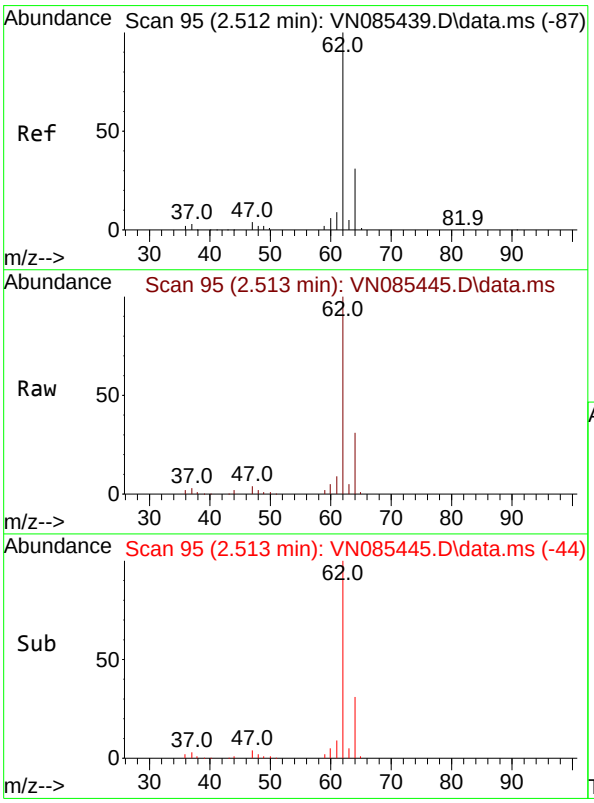
#3
Chloromethane
Concen: 42.883 ug/l
RT: 2.360 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Tgt Ion: 50 Resp: 138152

Ion	Ratio	Lower	Upper
50	100		
52	34.4	27.0	40.6

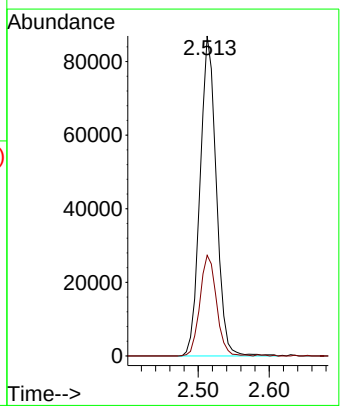


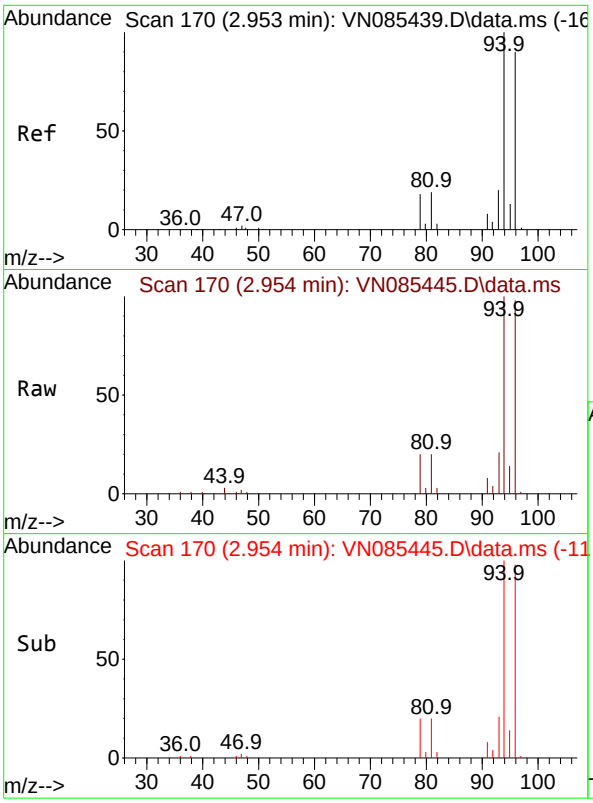


#4
Vinyl Chloride
Concen: 42.715 ug/l
RT: 2.513 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 62 Resp: 138316

Ion	Ratio	Lower	Upper
62	100		
64	31.4	24.8	37.2



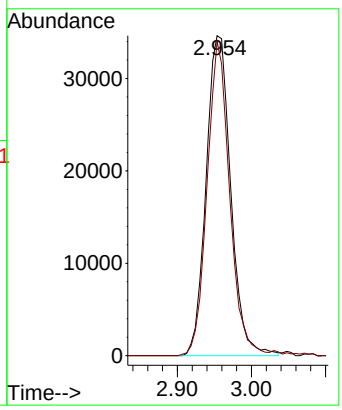


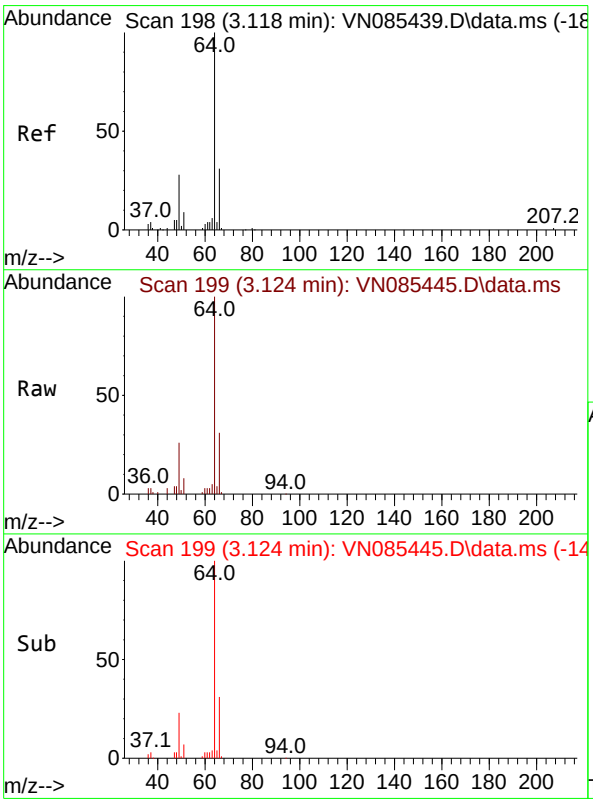
#5
Bromomethane
Concen: 40.910 ug/l
RT: 2.954 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Tgt Ion: 94 Resp: 80019

Ion	Ratio	Lower	Upper
94	100		
96	98.2	71.8	107.6

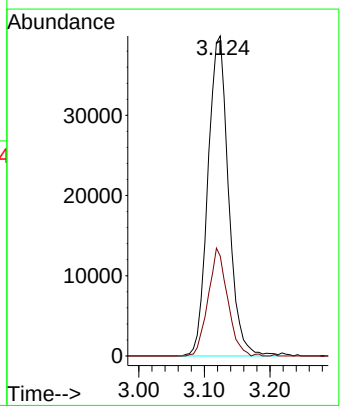


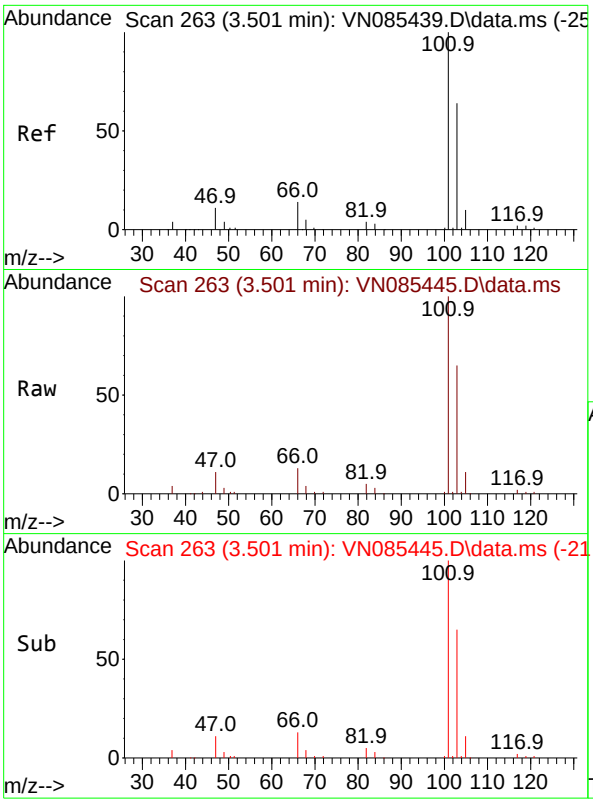


#6
Chloroethane
Concen: 42.299 ug/l
RT: 3.124 min Scan# 199
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 64 Resp: 86837

Ion	Ratio	Lower	Upper
64	100		
66	31.1	24.6	36.8



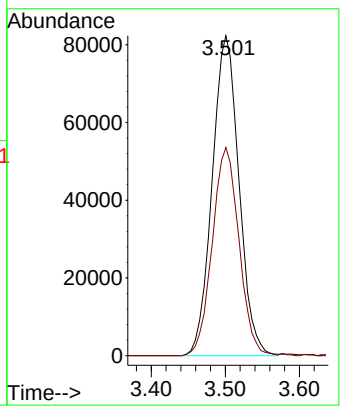


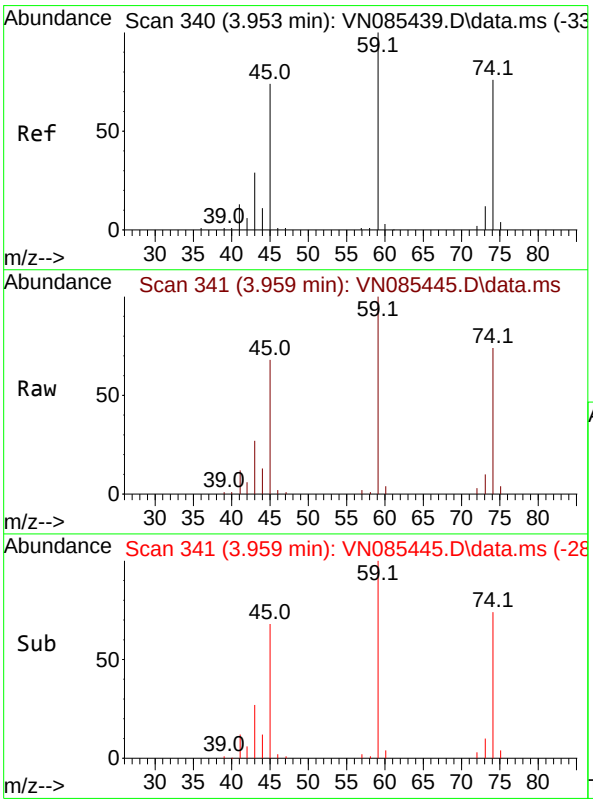
#7
Trichlorofluoromethane
Concen: 43.956 ug/l
RT: 3.501 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Tgt Ion:101 Resp: 206526

Ion	Ratio	Lower	Upper
101	100		
103	65.1	51.4	77.2

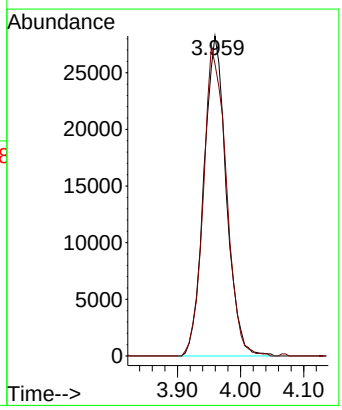


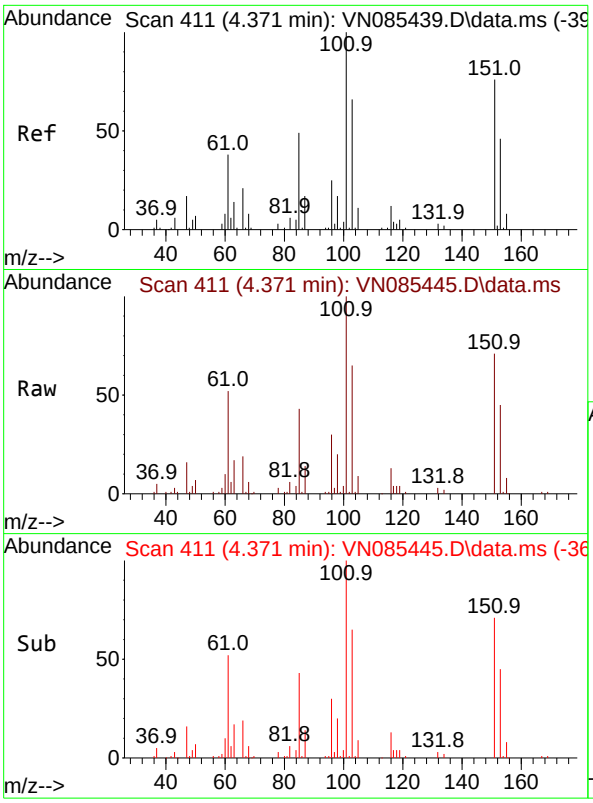


#8
Diethyl Ether
Concen: 42.846 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 74 Resp: 69545

Ion	Ratio	Lower	Upper
74	100		
45	99.0	49.7	149.1



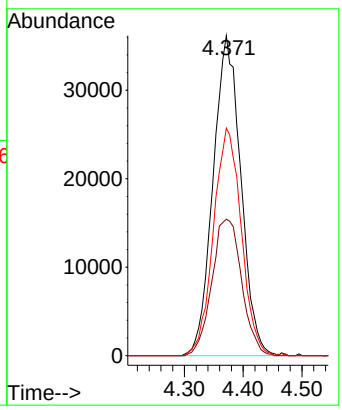


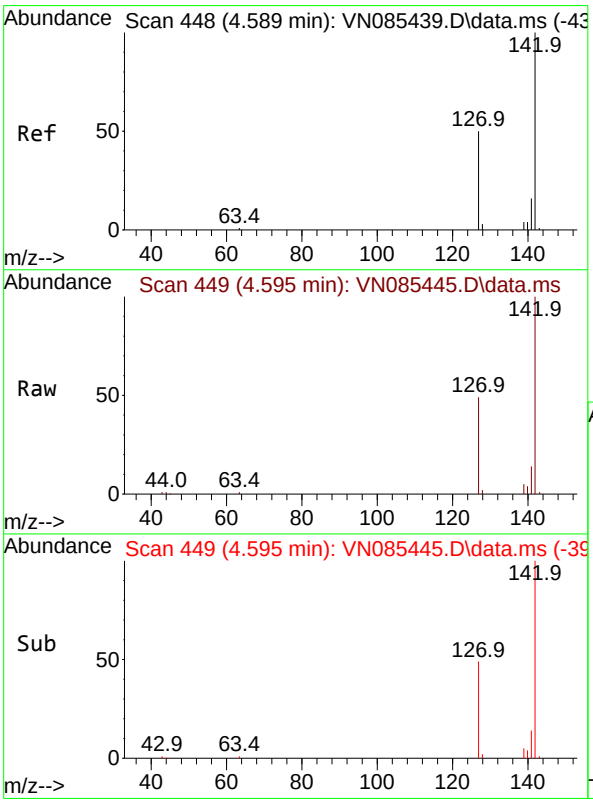
#9
1,1,2-Trichlorotrifluoroethane
Concen: 44.706 ug/l
RT: 4.371 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Tgt Ion:101 Resp: 118310

Ion	Ratio	Lower	Upper
101	100		
85	45.9	37.8	56.8
151	71.5	58.8	88.2

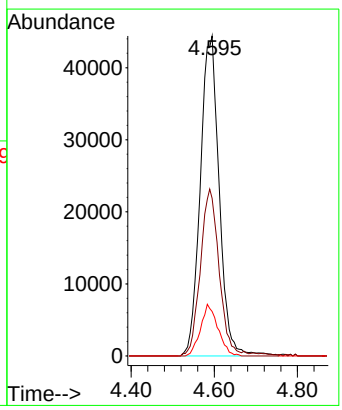


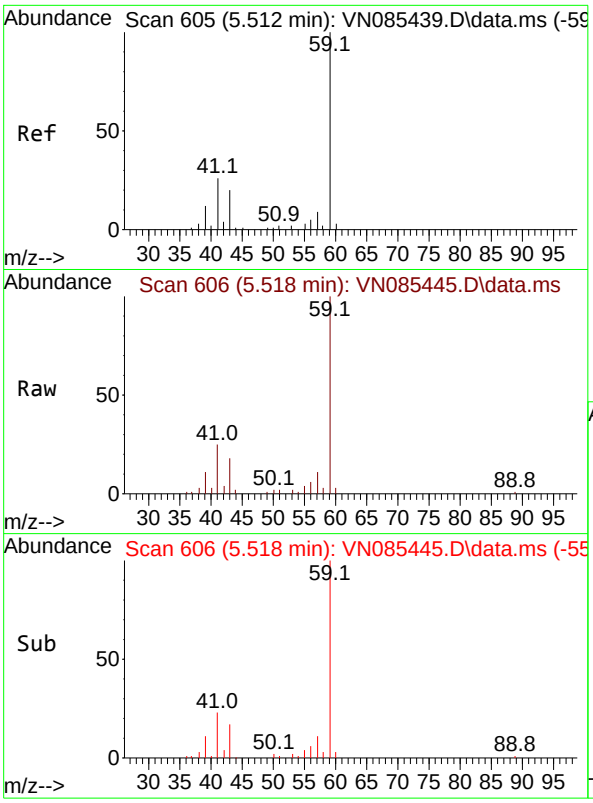


#10
Methyl Iodide
Concen: 46.259 ug/l
RT: 4.595 min Scan# 449
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion:142 Resp: 140190

Ion	Ratio	Lower	Upper
142	100		
127	49.2	40.3	60.5
141	13.9	12.8	19.2



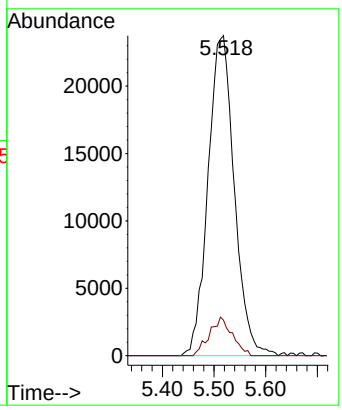


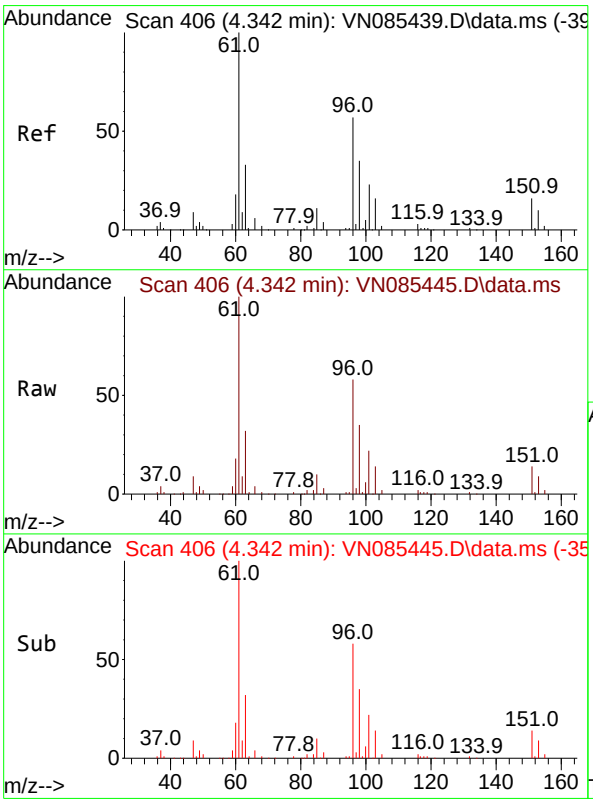
#11
Tert butyl alcohol
Concen: 206.633 ug/l
RT: 5.518 min Scan# 6
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Tgt Ion: 59 Resp: 83933

Ion	Ratio	Lower	Upper
59	100		
57	10.4	8.6	13.0

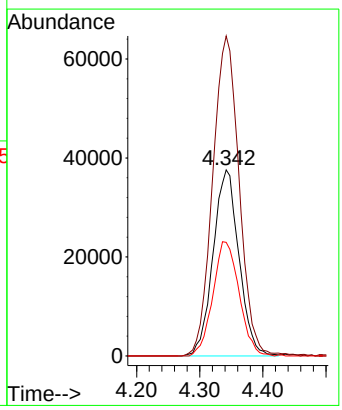


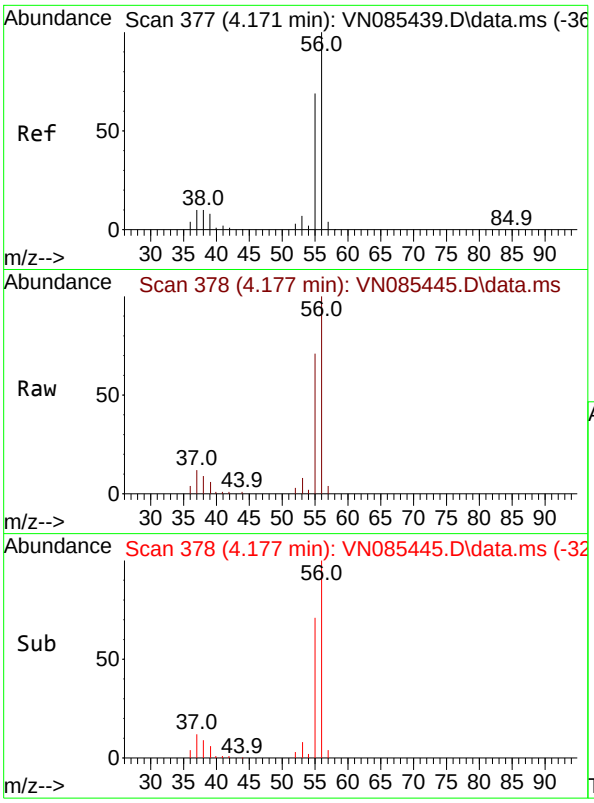


#12
1,1-Dichloroethene
Concen: 45.317 ug/l
RT: 4.342 min Scan# 406
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 96 Resp: 106880

Ion	Ratio	Lower	Upper
96	100		
61	171.9	141.0	211.4
98	61.0	49.0	73.6



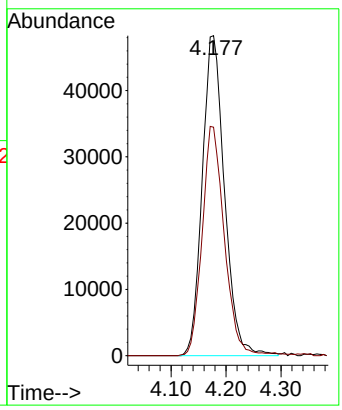


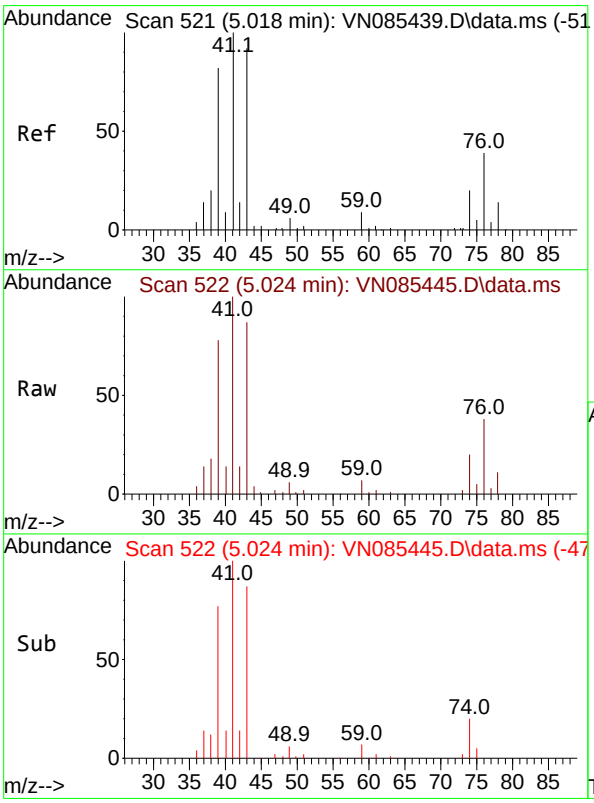
#13
Acrolein
Concen: 244.765 ug/l
RT: 4.177 min Scan# 3
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Tgt Ion: 56 Resp: 135720

Ion	Ratio	Lower	Upper
56	100		
55	70.9	56.3	84.5

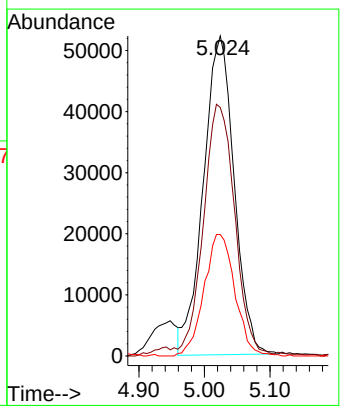


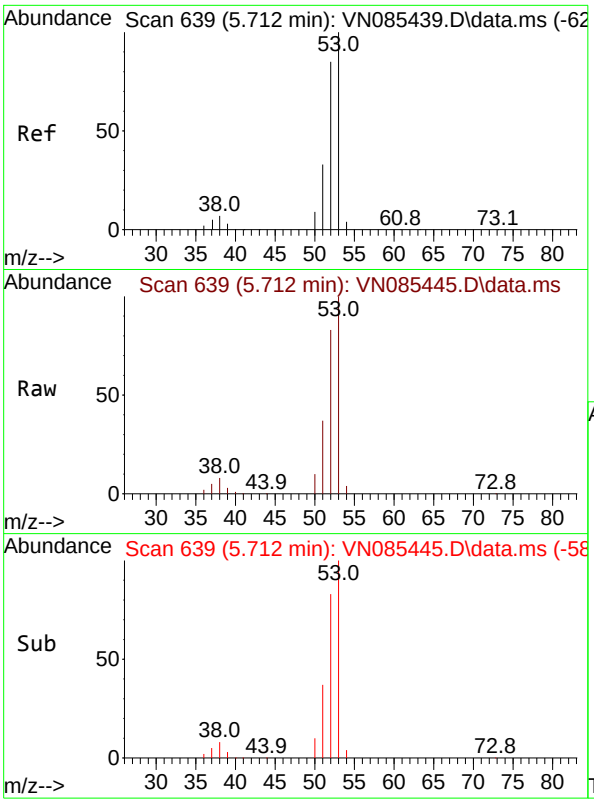


#14
Allyl chloride
Concen: 44.501 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 41 Resp: 170308

Ion	Ratio	Lower	Upper
41	100		
39	78.9	64.4	96.6
76	38.2	30.5	45.7



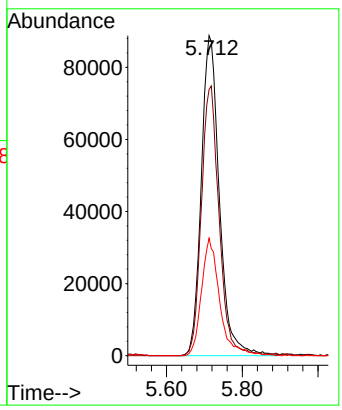


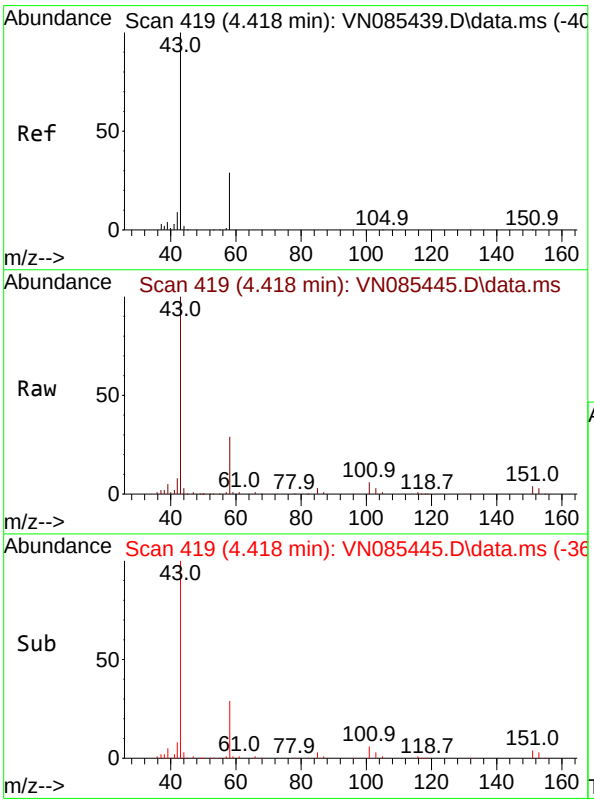
#15
Acrylonitrile
Concen: 227.920 ug/l
RT: 5.712 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Tgt Ion: 53 Resp: 294062

Ion	Ratio	Lower	Upper
53	100		
52	82.7	65.5	98.3
51	36.8	29.8	44.8

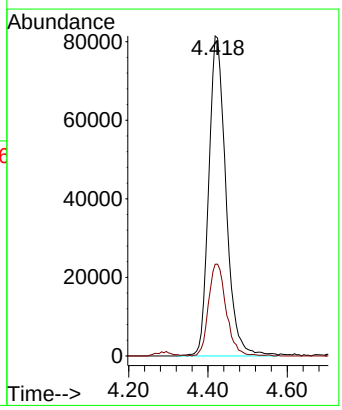


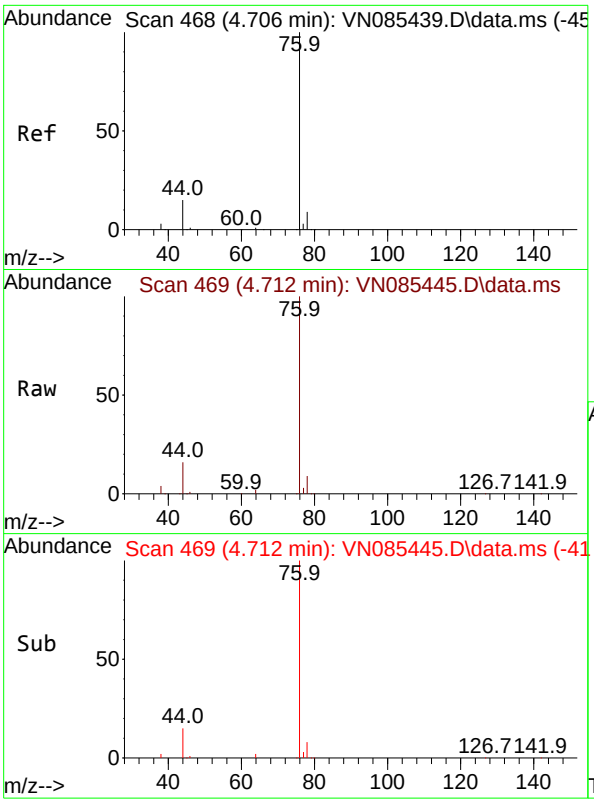


#16
Acetone
Concen: 213.971 ug/l
RT: 4.418 min Scan# 419
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 43 Resp: 245248

Ion	Ratio	Lower	Upper
43	100		
58	28.4	23.8	35.6



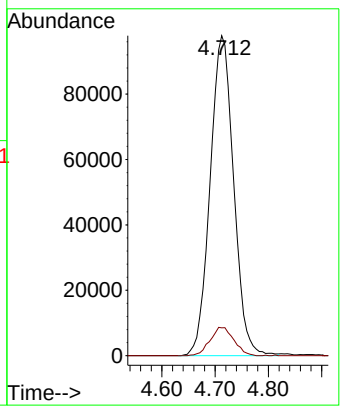


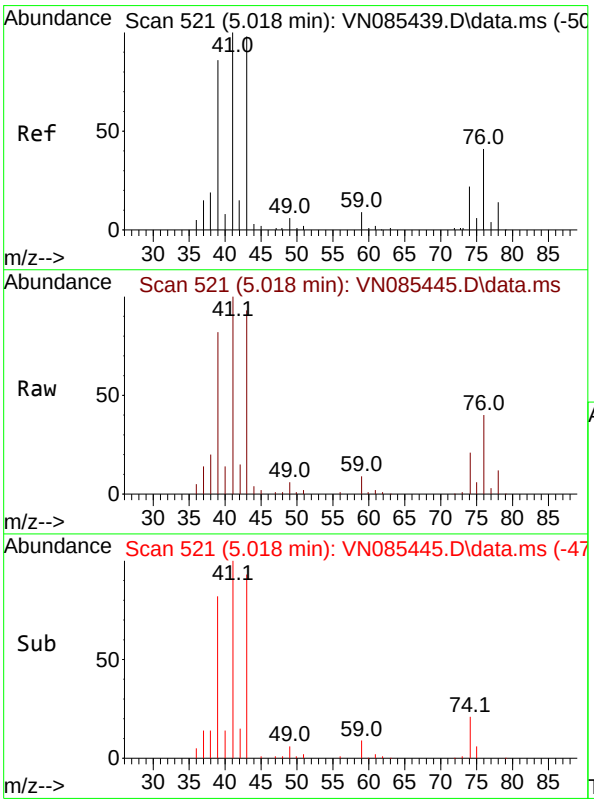
#17
Carbon Disulfide
Concen: 41.342 ug/l
RT: 4.712 min Scan# 4
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Tgt Ion: 76 Resp: 300215

Ion	Ratio	Lower	Upper
76	100		
78	8.7	6.9	10.3

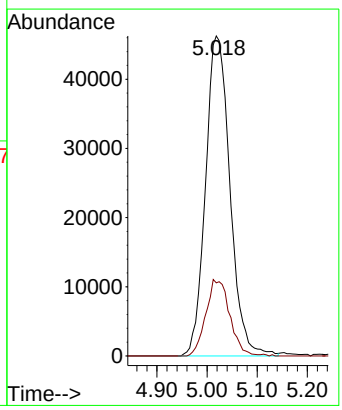


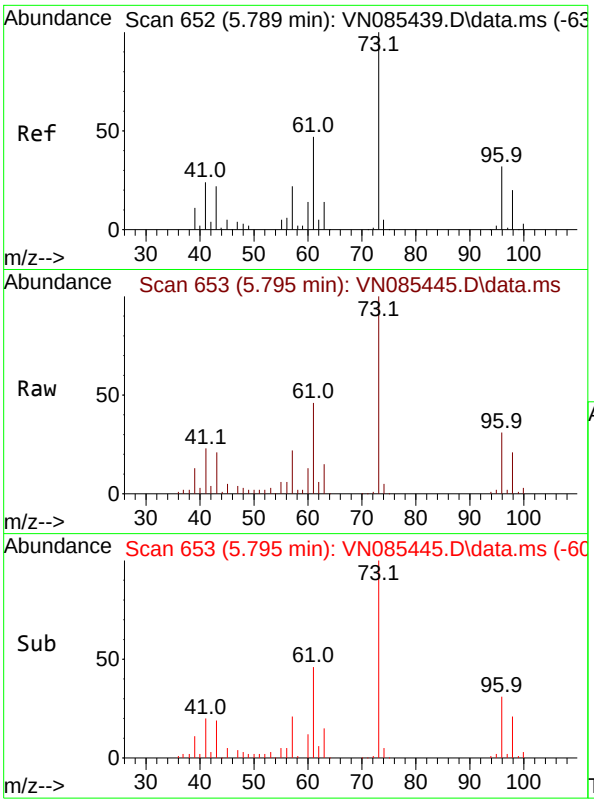


#18
Methyl Acetate
Concen: 45.028 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 43 Resp: 156938

Ion	Ratio	Lower	Upper
43	100		
74	23.4	18.6	28.0



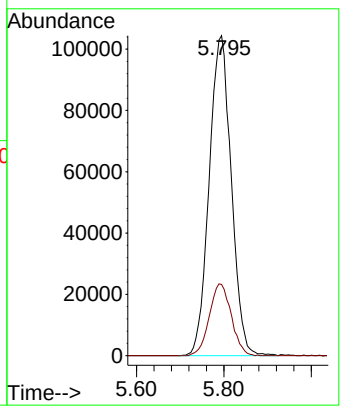


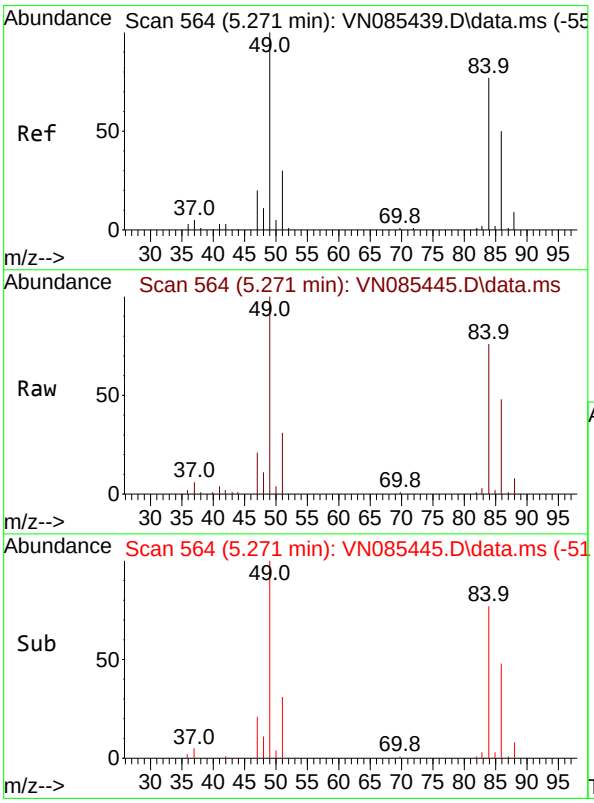
#19
Methyl tert-butyl Ether
Concen: 47.768 ug/l
RT: 5.795 min Scan# 6
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Tgt Ion: 73 Resp: 365819

Ion	Ratio	Lower	Upper
73	100		
57	22.3	17.8	26.8

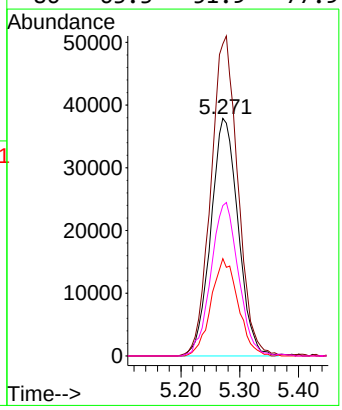


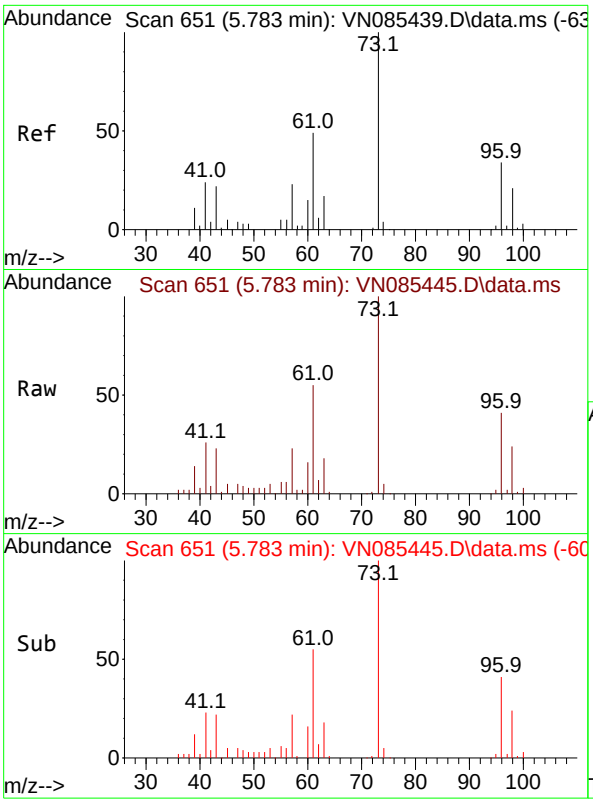


#20
Methylene Chloride
Concen: 43.017 ug/l
RT: 5.271 min Scan# 564
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 84 Resp: 122059

Ion	Ratio	Lower	Upper
84	100		
49	131.3	104.1	156.1
51	41.0	31.0	46.4
86	63.3	51.9	77.9



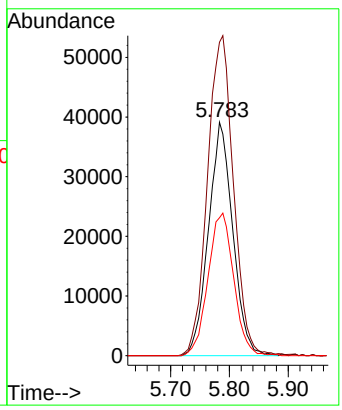


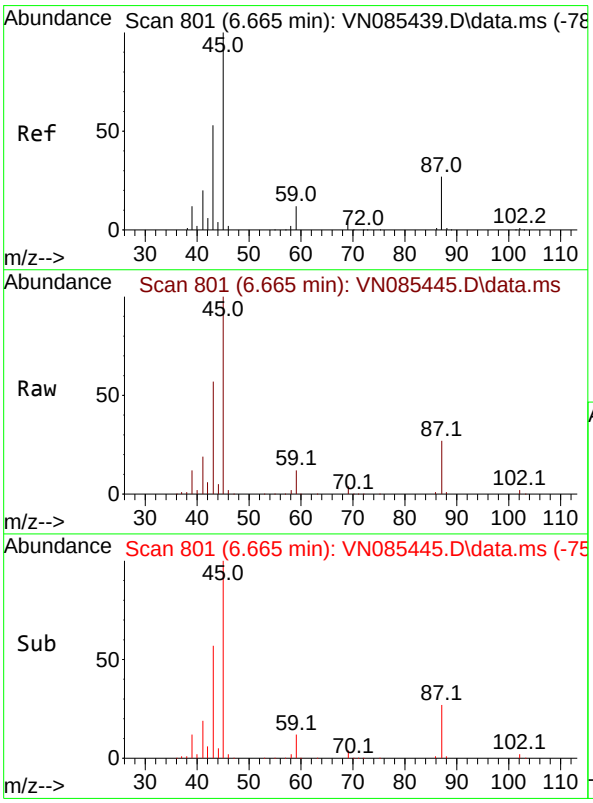
#21
trans-1,2-Dichloroethene
Concen: 44.672 ug/l
RT: 5.783 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Tgt Ion: 96 Resp: 112597

Ion	Ratio	Lower	Upper
96	100		
61	134.3	115.7	173.5
98	59.1	49.8	74.8

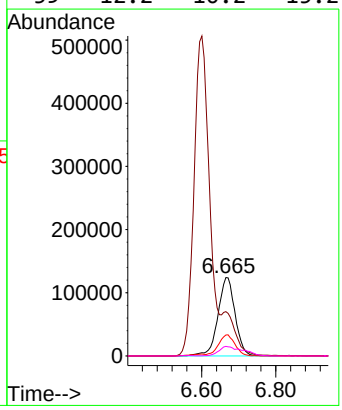


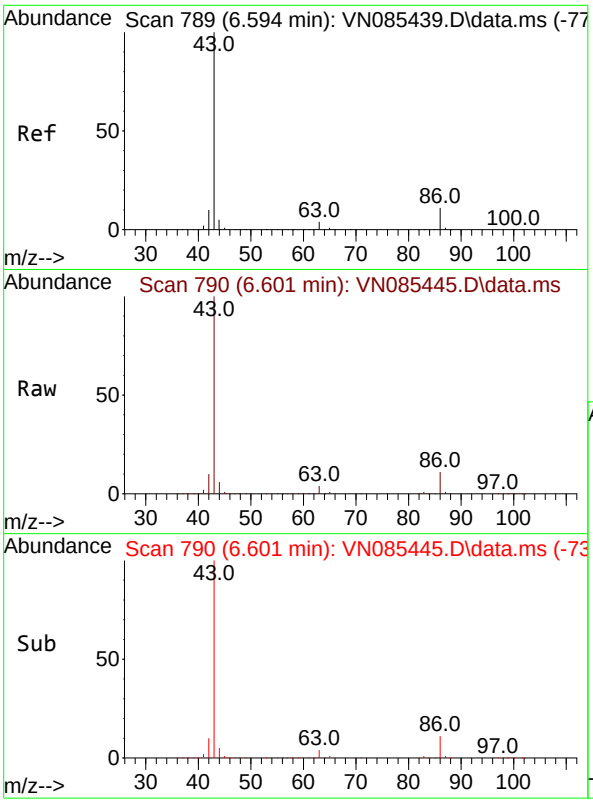


#22
Diisopropyl ether
Concen: 46.996 ug/l
RT: 6.665 min Scan# 801
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 45 Resp: 399206

Ion	Ratio	Lower	Upper
45	100		
43	56.0	45.0	67.6
87	26.8	21.8	32.8
59	12.2	10.2	15.2



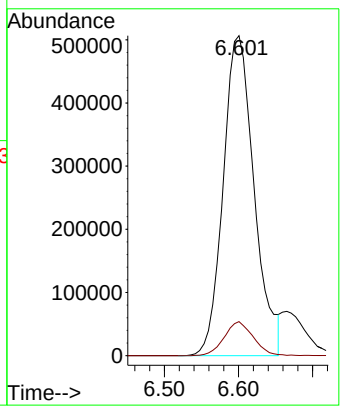


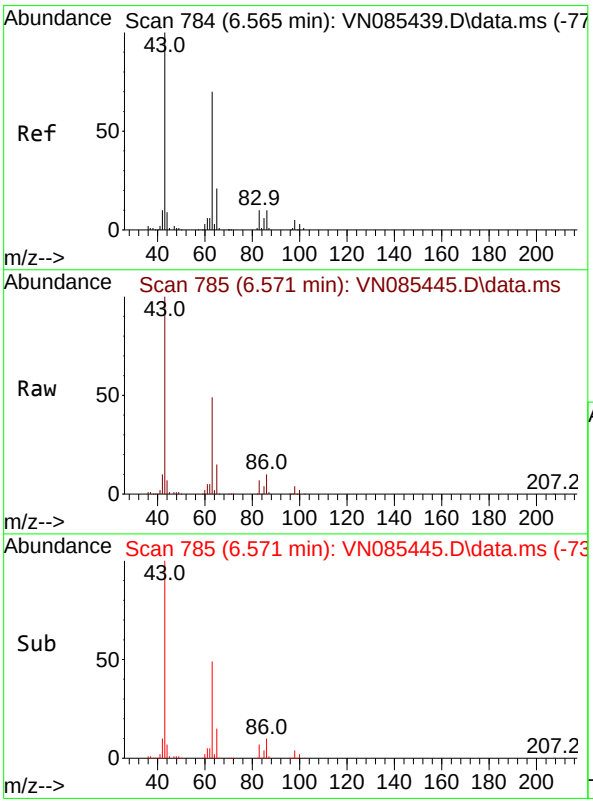
#23
Vinyl Acetate
Concen: 247.459 ug/l
RT: 6.601 min Scan# 7
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Tgt Ion: 43 Resp: 1471068

Ion	Ratio	Lower	Upper
43	100		
86	10.7	8.4	12.6

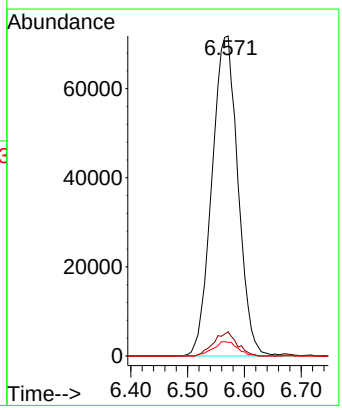


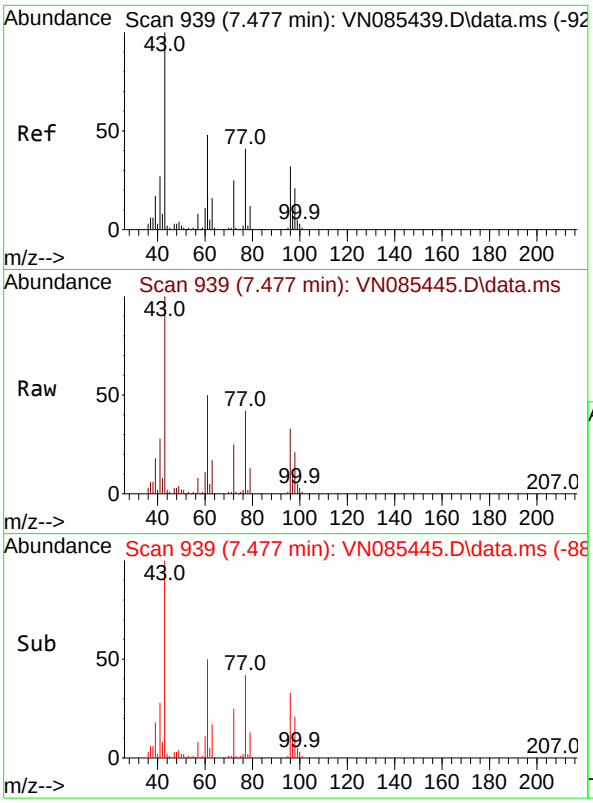


#24
1,1-Dichloroethane
Concen: 44.114 ug/l
RT: 6.571 min Scan# 785
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 63 Resp: 228489

Ion	Ratio	Lower	Upper
63	100		
98	7.5	3.3	9.8
100	4.2	2.0	6.0



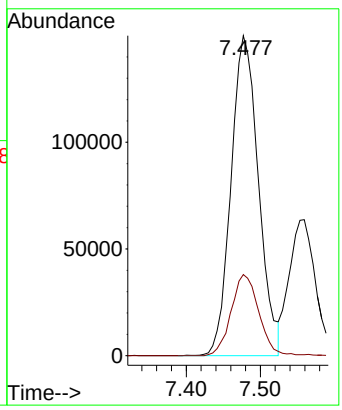


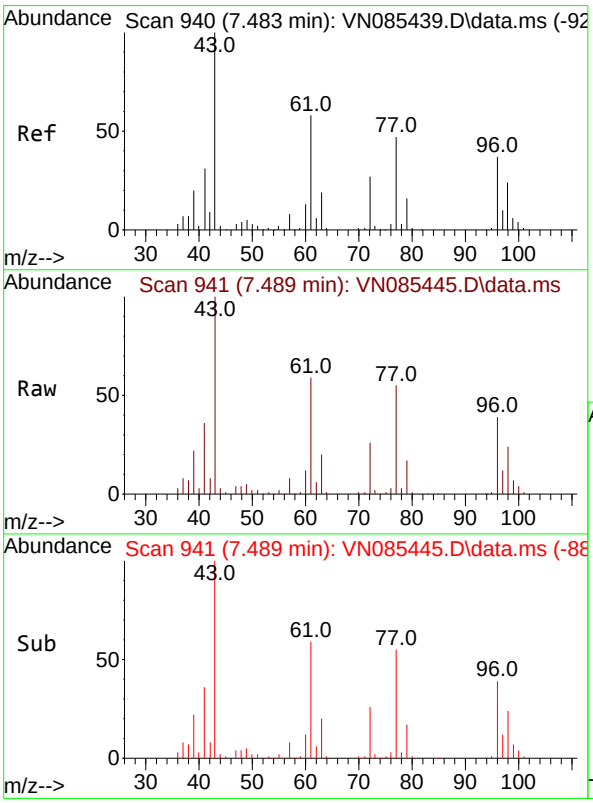
#25
2-Butanone
Concen: 228.924 ug/l
RT: 7.477 min Scan# 9
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Tgt Ion: 43 Resp: 386125

Ion	Ratio	Lower	Upper
43	100		
72	25.4	20.2	30.4

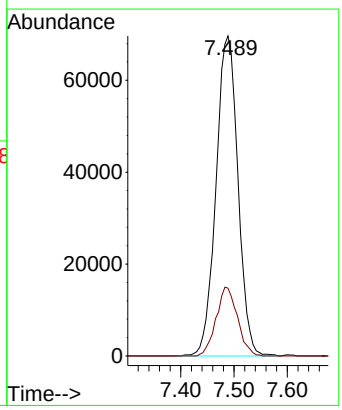


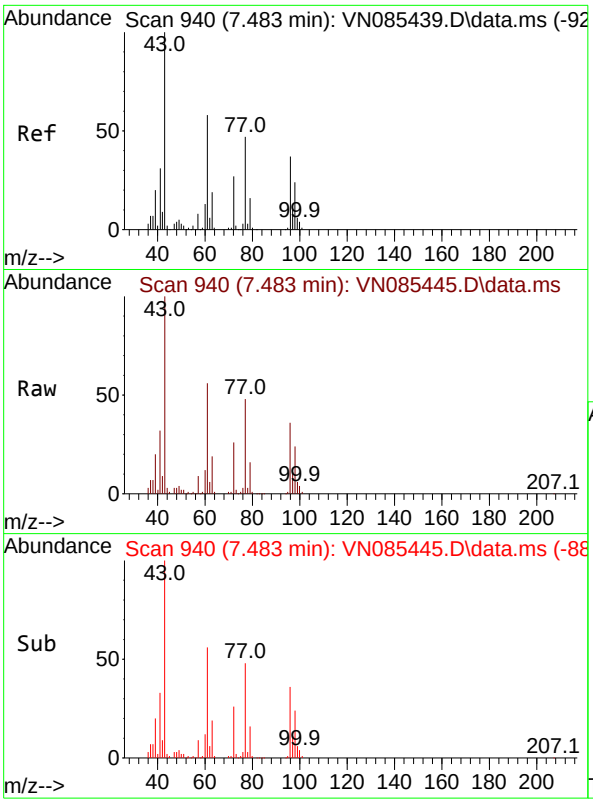


#26
2,2-Dichloropropane
Concen: 47.593 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 77 Resp: 199303

Ion	Ratio	Lower	Upper
77	100		
97	20.9	10.7	32.1



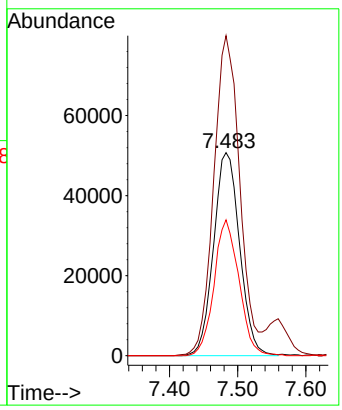


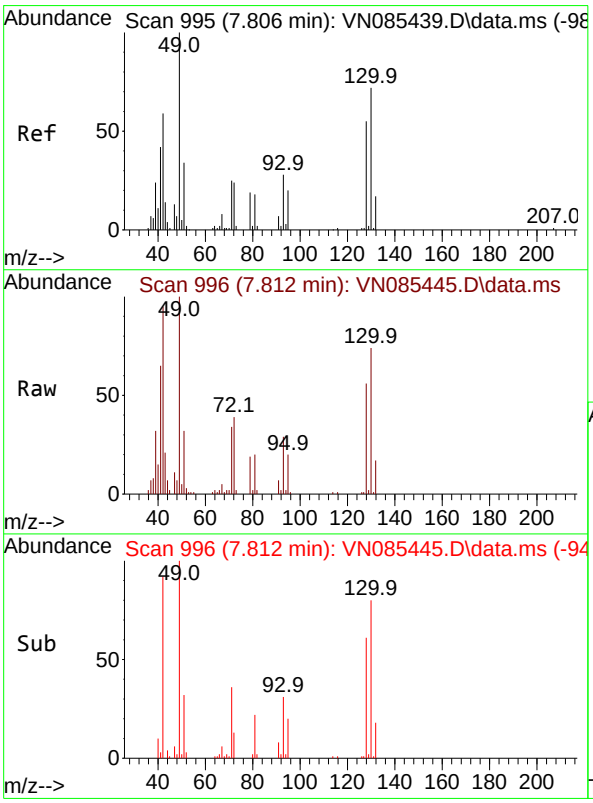
#27
cis-1,2-Dichloroethene
Concen: 45.446 ug/l
RT: 7.483 min Scan# 94
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Tgt Ion: 96 Resp: 134920

Ion	Ratio	Lower	Upper
96	100		
61	158.0	0.0	311.8
98	64.1	0.0	126.0

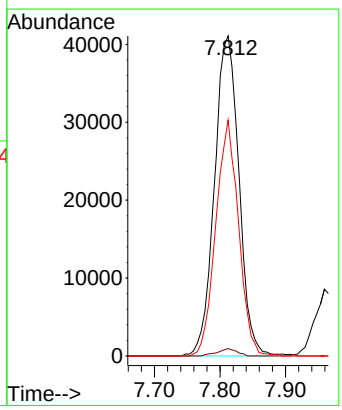


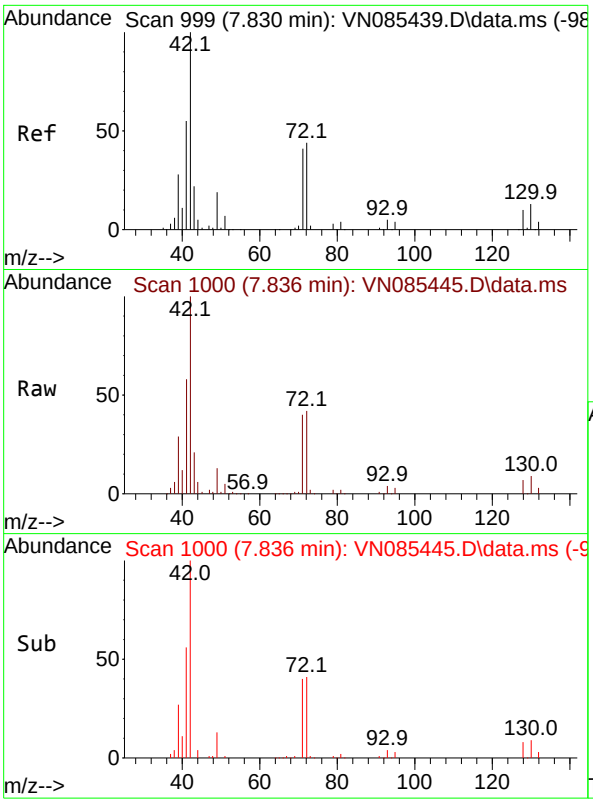


#28
Bromochloromethane
Concen: 44.122 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 49 Resp: 106323

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	4.4
130	68.6	55.0	82.4



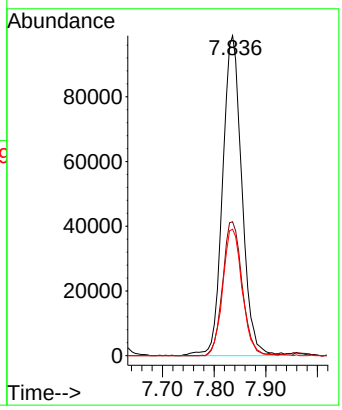


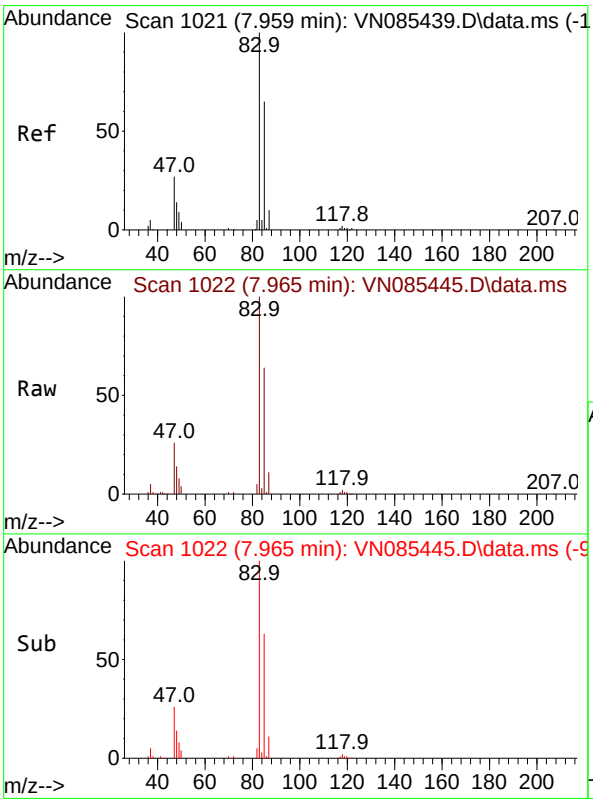
#29
Tetrahydrofuran
Concen: 239.065 ug/l
RT: 7.836 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Tgt Ion: 42 Resp: 255650

Ion	Ratio	Lower	Upper
42	100		
72	42.5	34.2	51.2
71	39.9	32.5	48.7

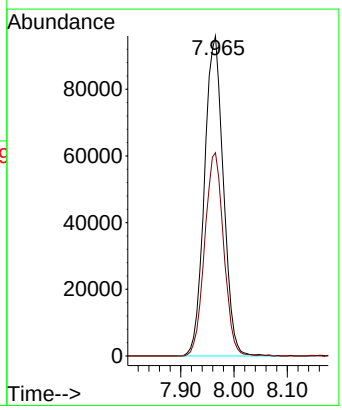


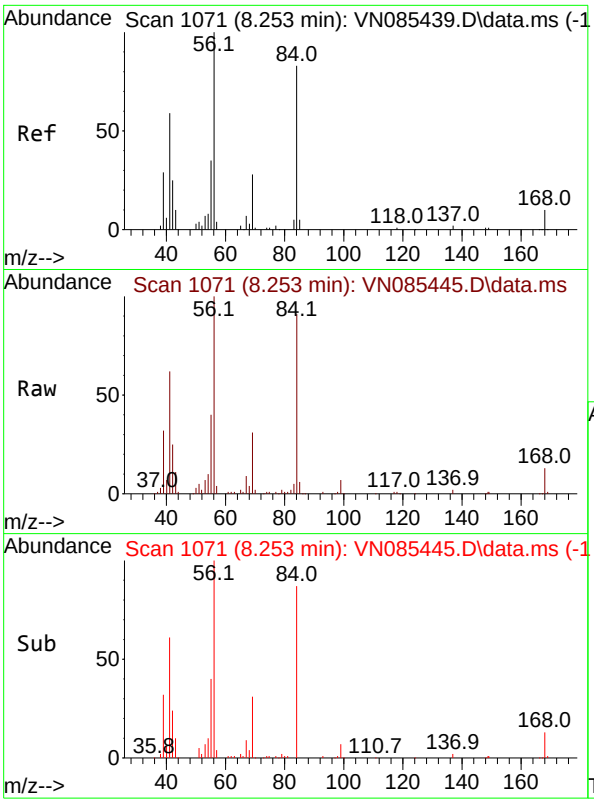


#30
Chloroform
Concen: 44.071 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 83 Resp: 235923

Ion	Ratio	Lower	Upper
83	100		
85	63.5	51.8	77.6



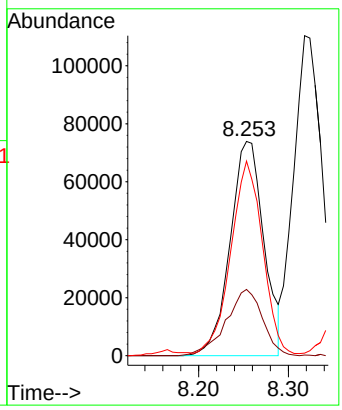


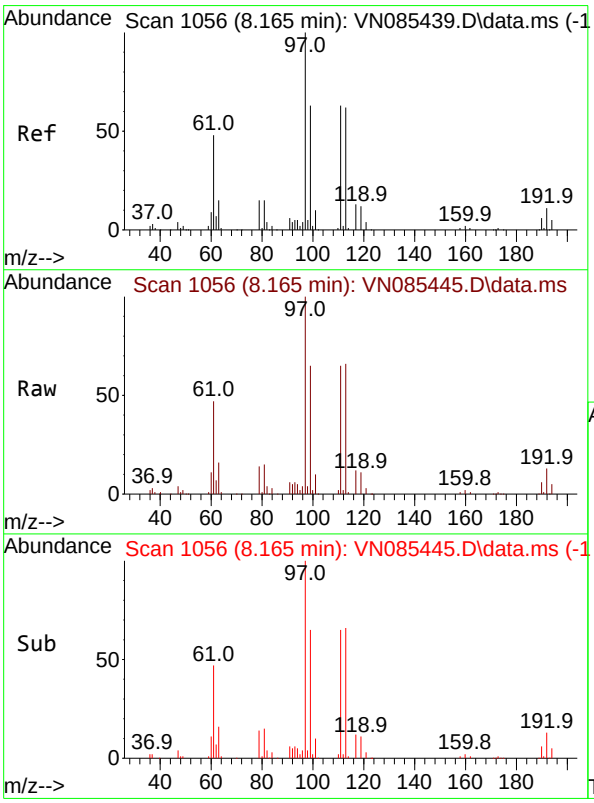
#31
Cyclohexane
Concen: 42.878 ug/l
RT: 8.253 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Tgt Ion: 56 Resp: 193034

Ion	Ratio	Lower	Upper
56	100		
69	30.5	22.2	33.4
84	89.4	66.4	99.6

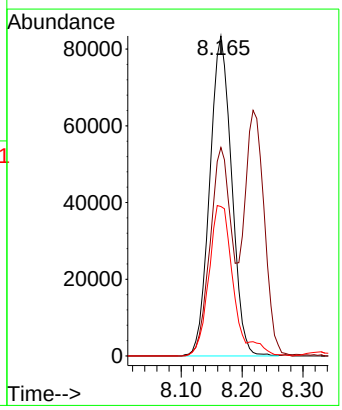


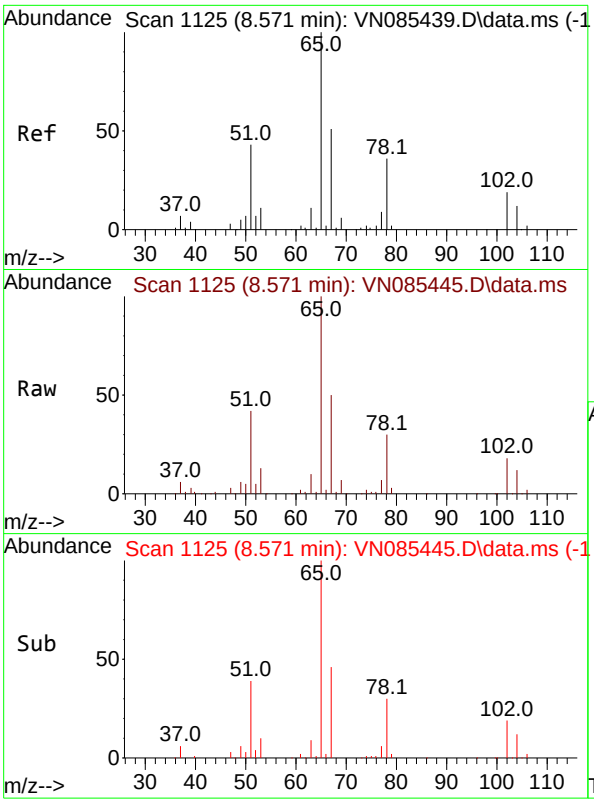


#32
1,1,1-Trichloroethane
Concen: 44.332 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 97 Resp: 208172

Ion	Ratio	Lower	Upper
97	100		
99	61.8	49.8	74.6
61	52.8	41.4	62.2



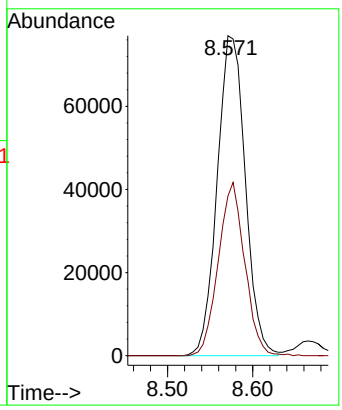


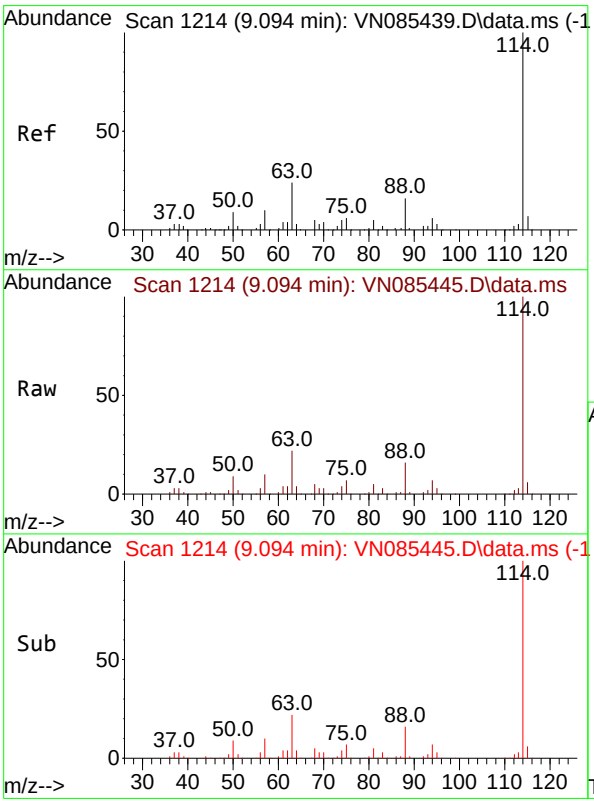
#33
1,2-Dichloroethane-d4
Concen: 49.782 ug/l
RT: 8.571 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Tgt Ion: 65 Resp: 176594

Ion	Ratio	Lower	Upper
65	100		
67	50.9	0.0	101.6

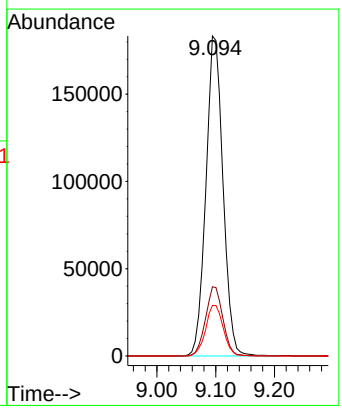


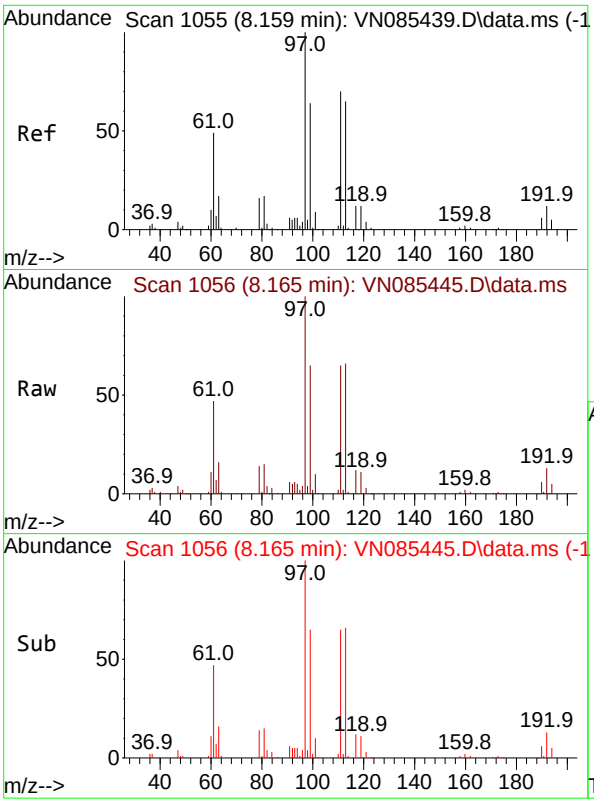


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.094 min Scan# 1214
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion:114 Resp: 370487

Ion	Ratio	Lower	Upper
114	100		
63	21.6	0.0	47.6
88	15.8	0.0	32.6



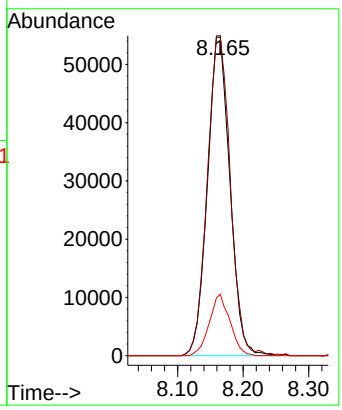


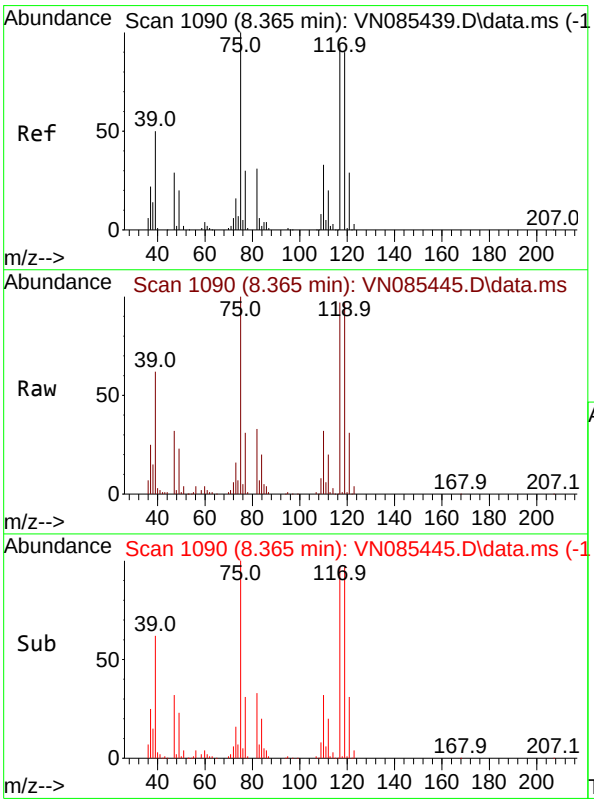
#35
Dibromofluoromethane
Concen: 50.768 ug/l
RT: 8.165 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Tgt Ion:113 Resp: 130487

Ion	Ratio	Lower	Upper
113	100		
111	102.5	82.7	124.1
192	17.7	14.3	21.5

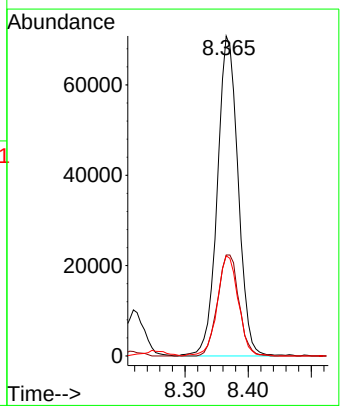


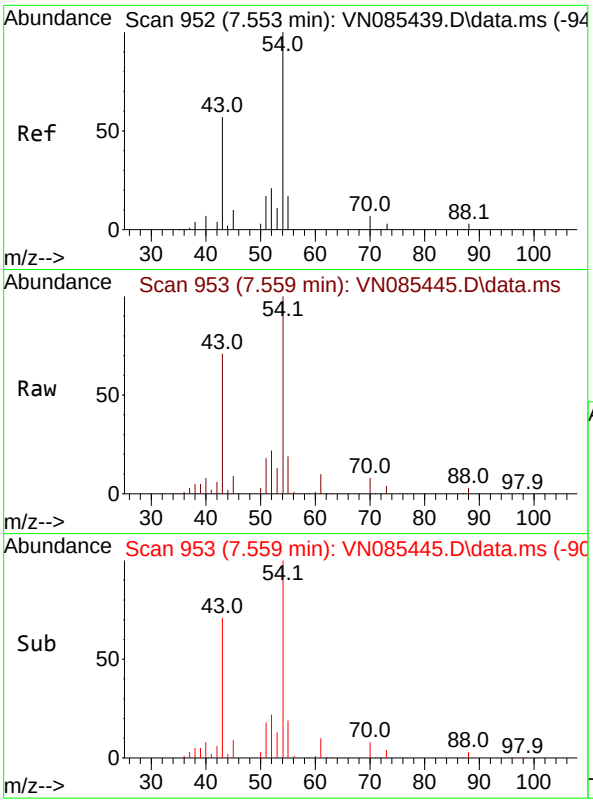


#36
1,1-Dichloropropene
Concen: 44.863 ug/l
RT: 8.365 min Scan# 1090
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 75 Resp: 161834

Ion	Ratio	Lower	Upper
75	100		
110	32.4	16.5	49.5
77	31.8	24.4	36.6



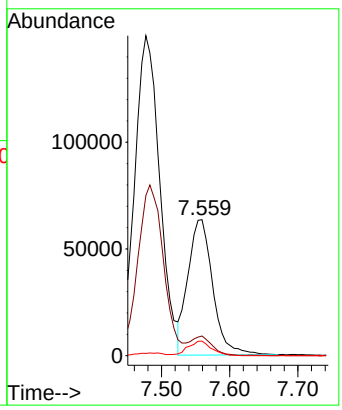


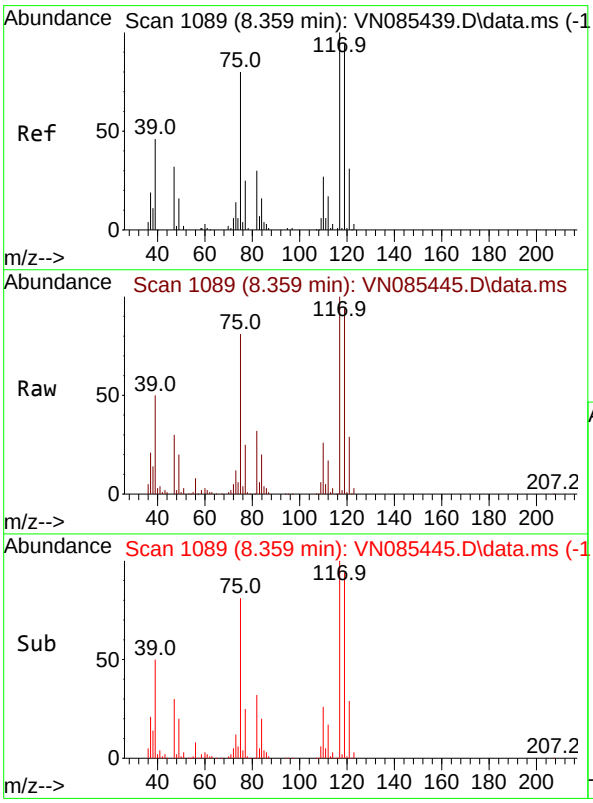
#37
Ethyl Acetate
Concen: 44.123 ug/l
RT: 7.559 min Scan# 9
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Tgt Ion: 43 Resp: 160656

Ion	Ratio	Lower	Upper
43	100		
61	11.9	10.9	16.3
70	10.2	7.5	11.3

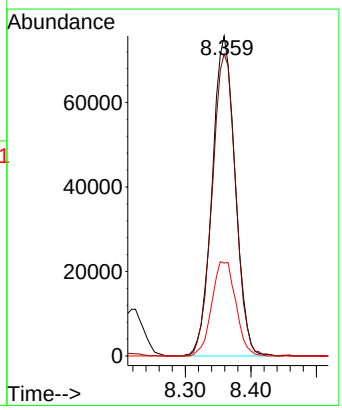


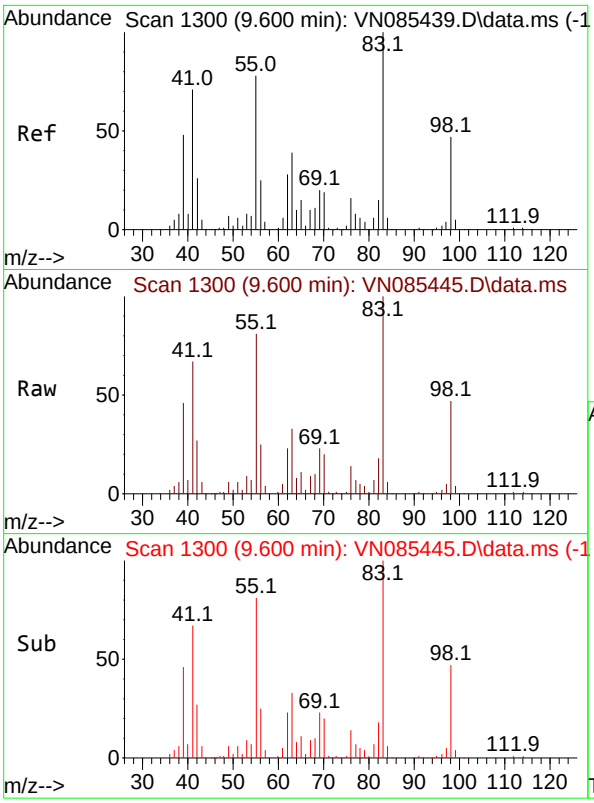


#38
Carbon Tetrachloride
Concen: 44.456 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion:117 Resp: 183592

Ion	Ratio	Lower	Upper
117	100		
119	94.4	75.4	113.2
121	29.0	24.6	37.0



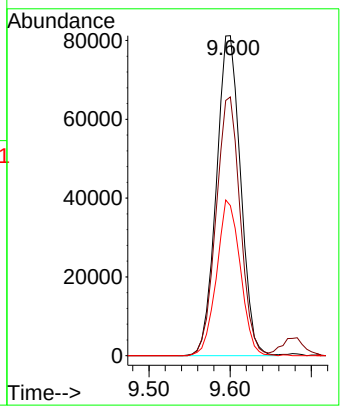


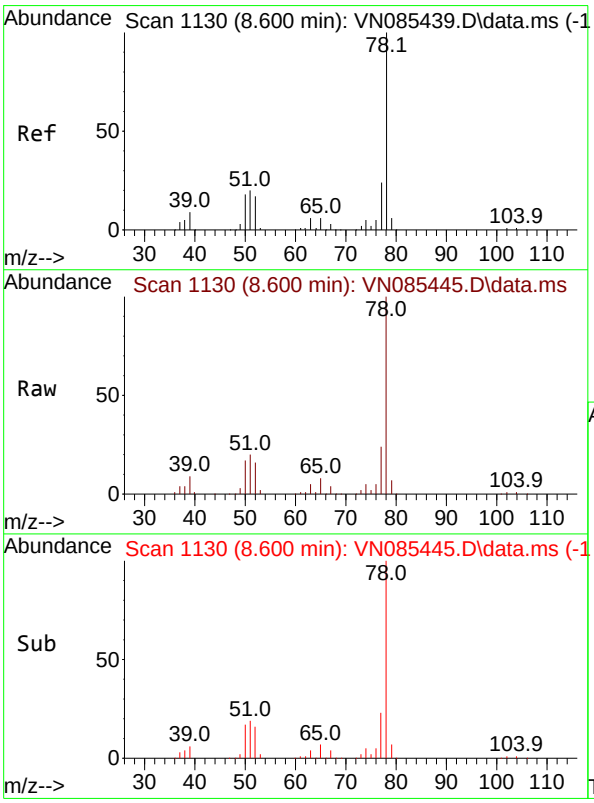
#39
Methylcyclohexane
Concen: 49.687 ug/l
RT: 9.600 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Tgt Ion: 83 Resp: 168431

Ion	Ratio	Lower	Upper
83	100		
55	80.9	62.6	94.0
98	46.9	37.7	56.5

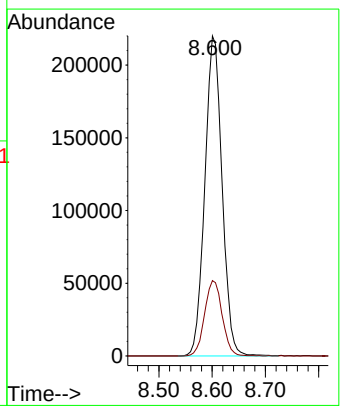


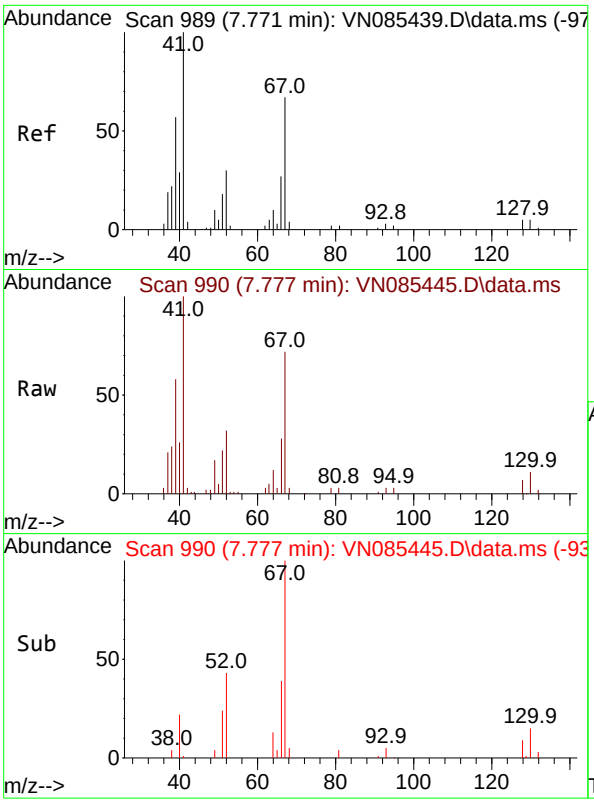


#40
Benzene
Concen: 45.657 ug/l
RT: 8.600 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 78 Resp: 494871

Ion	Ratio	Lower	Upper
78	100		
77	23.5	19.0	28.6



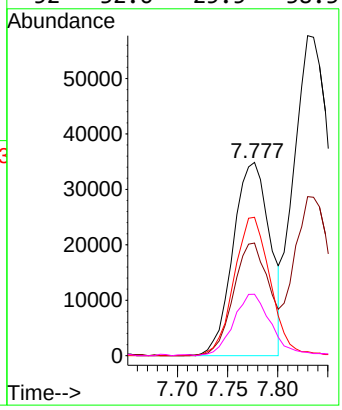


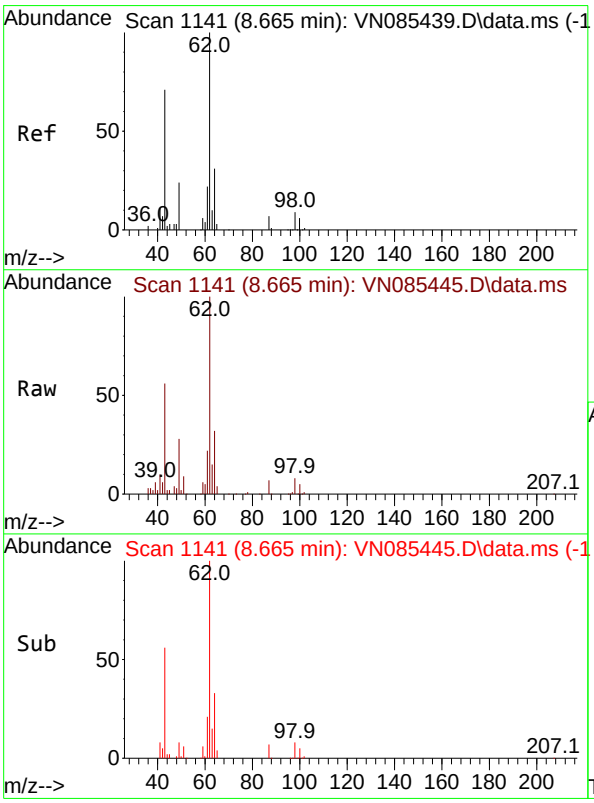
#41
Methacrylonitrile
Concen: 47.155 ug/l
RT: 7.777 min Scan# 9
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Tgt Ion: 41 Resp: 89326

Ion	Ratio	Lower	Upper
41	100		
39	56.6	46.0	69.0
67	70.9	57.4	86.2
52	32.6	25.5	38.3

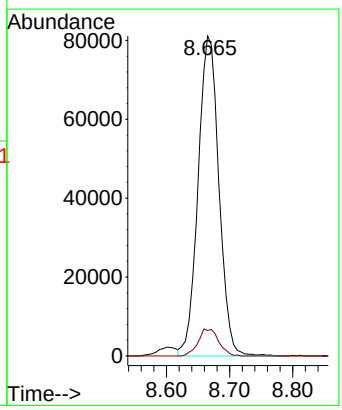


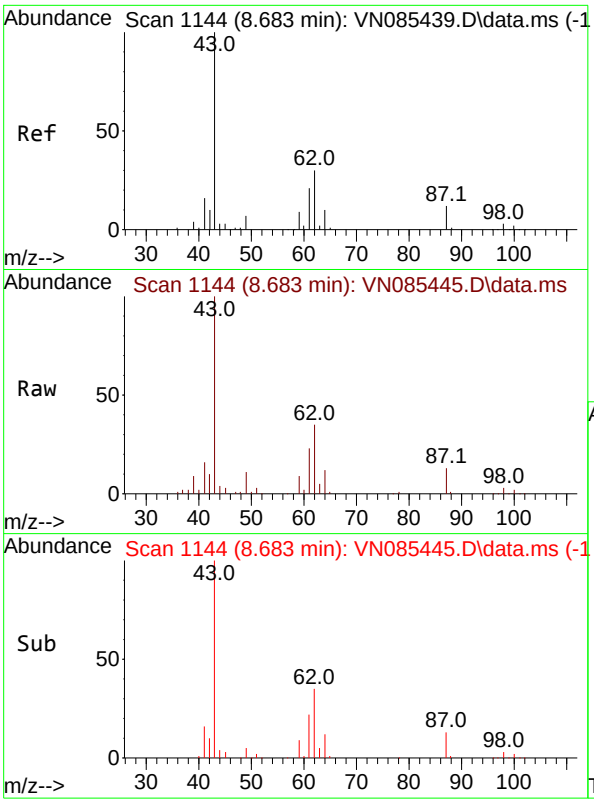


#42
1,2-Dichloroethane
Concen: 45.481 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 62 Resp: 185663

Ion	Ratio	Lower	Upper
62	100		
98	8.3	0.0	17.0



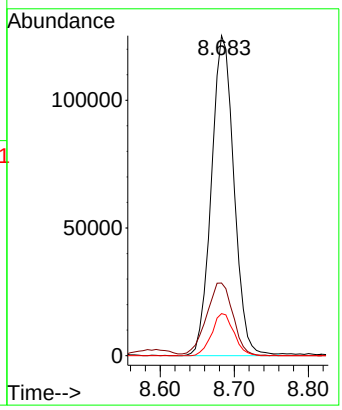


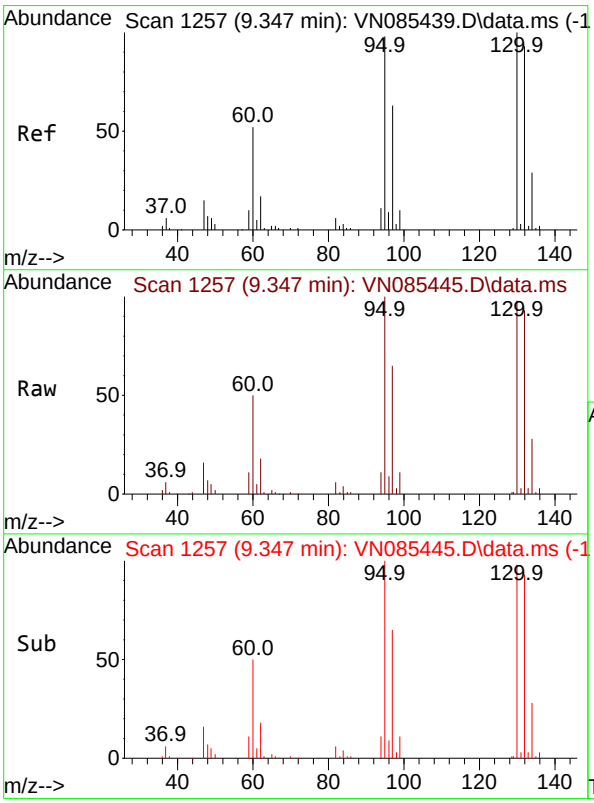
#43
Isopropyl Acetate
Concen: 45.440 ug/l
RT: 8.683 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Tgt Ion: 43 Resp: 265107

Ion	Ratio	Lower	Upper
43	100		
61	26.7	20.7	31.1
87	12.9	9.8	14.8

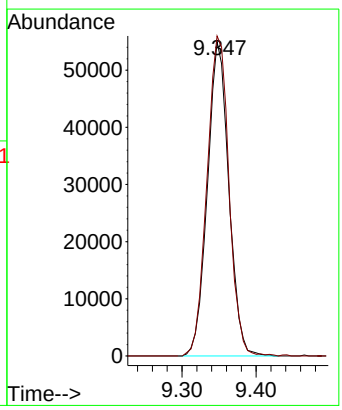


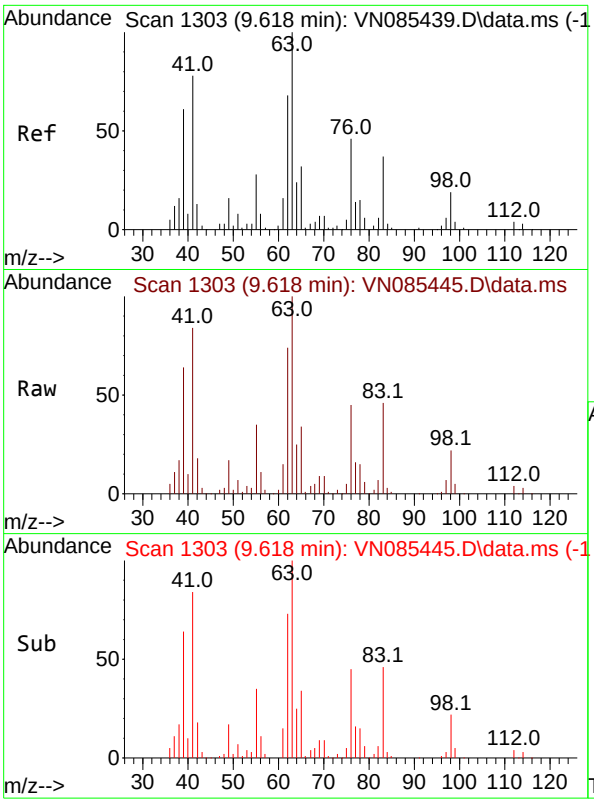


#44
Trichloroethene
Concen: 43.622 ug/l
RT: 9.347 min Scan# 1257
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion:130 Resp: 110058

Ion	Ratio	Lower	Upper
130	100		
95	101.9	0.0	195.8



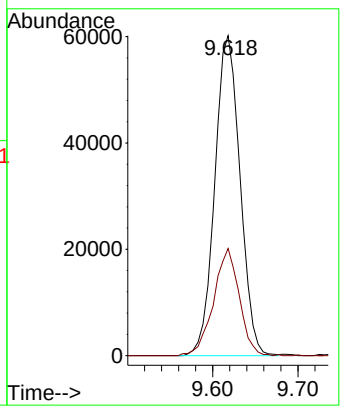


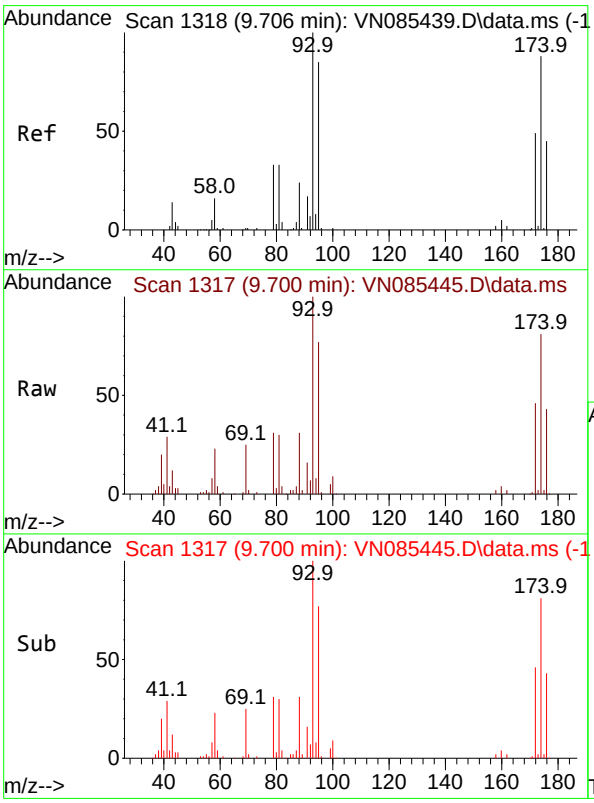
#45
1,2-Dichloropropane
Concen: 44.744 ug/l
RT: 9.618 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Tgt Ion: 63 Resp: 123876

Ion	Ratio	Lower	Upper
63	100		
65	33.5	25.6	38.4

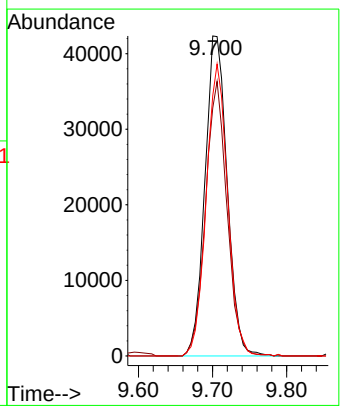


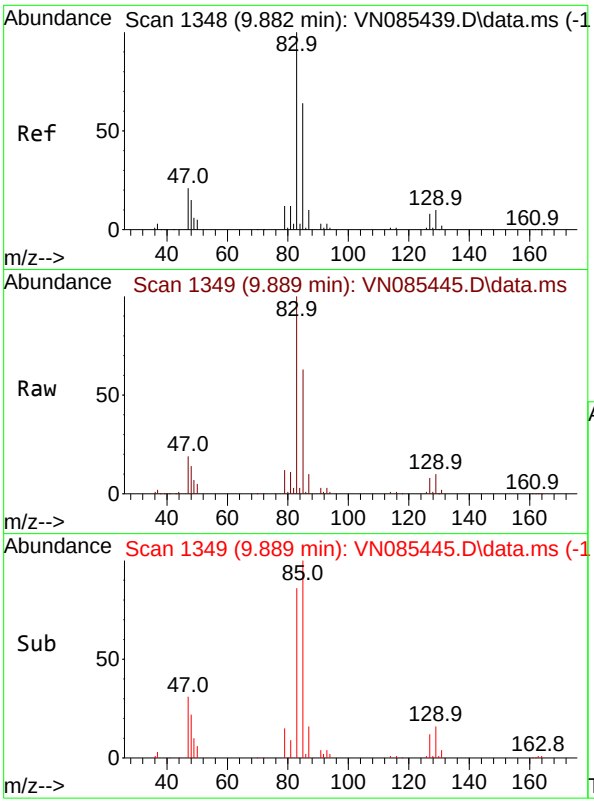


#46
Dibromomethane
Concen: 44.214 ug/l
RT: 9.700 min Scan# 1317
Delta R.T. -0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 93 Resp: 88325

Ion	Ratio	Lower	Upper
93	100		
95	82.9	64.7	97.1
174	88.0	69.0	103.4



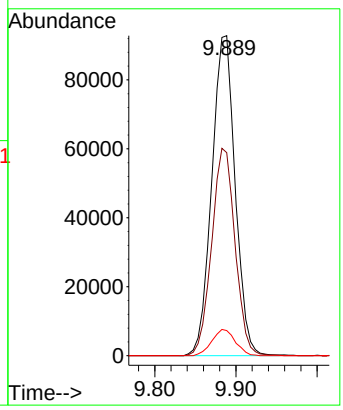


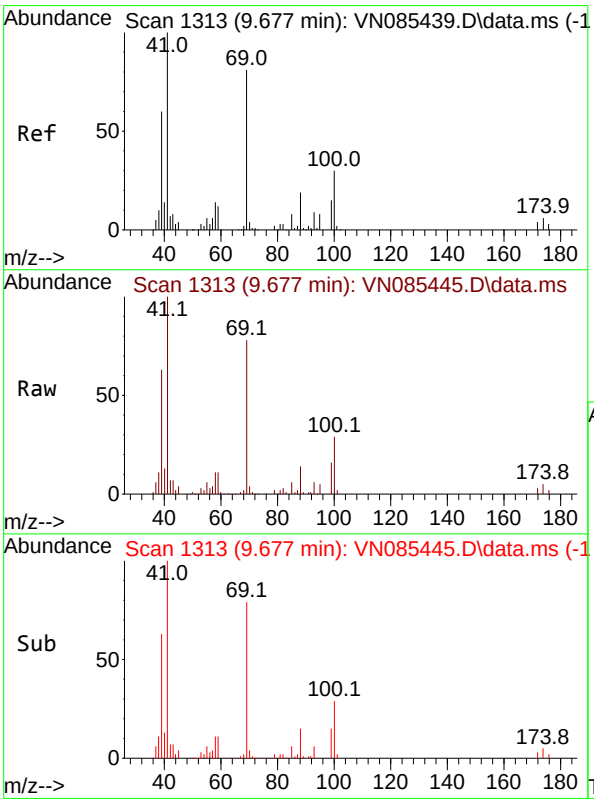
#47
Bromodichloromethane
Concen: 45.655 ug/l
RT: 9.889 min Scan# 1
Delta R.T. 0.007 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Tgt Ion: 83 Resp: 185808

Ion	Ratio	Lower	Upper
83	100		
85	63.5	51.2	76.8
127	7.8	6.5	9.7

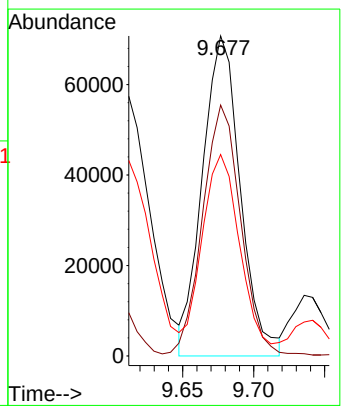


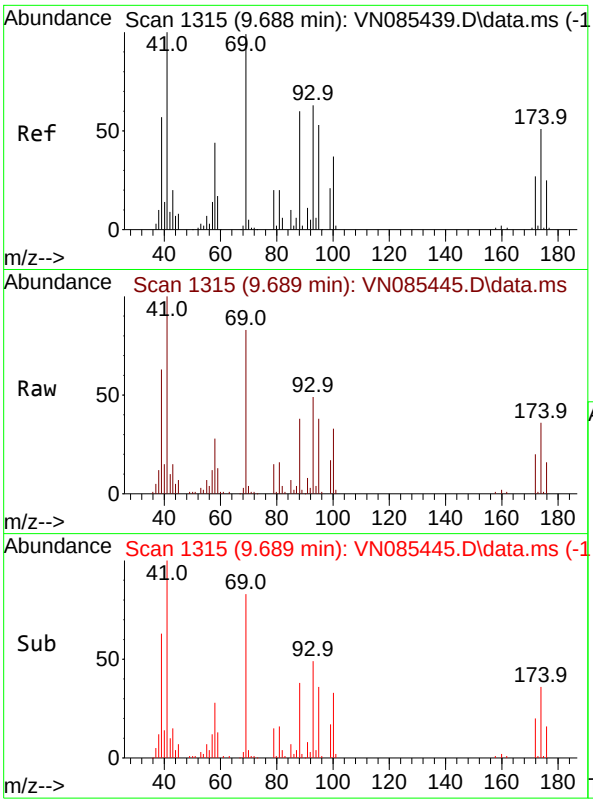


#48
Methyl methacrylate
Concen: 49.948 ug/l
RT: 9.677 min Scan# 1313
Delta R.T. -0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 41 Resp: 131142

Ion	Ratio	Lower	Upper
41	100		
69	78.6	64.7	97.1
39	63.3	49.0	73.6



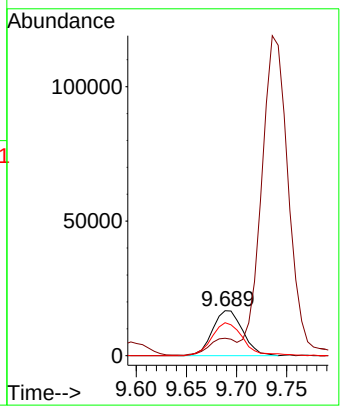


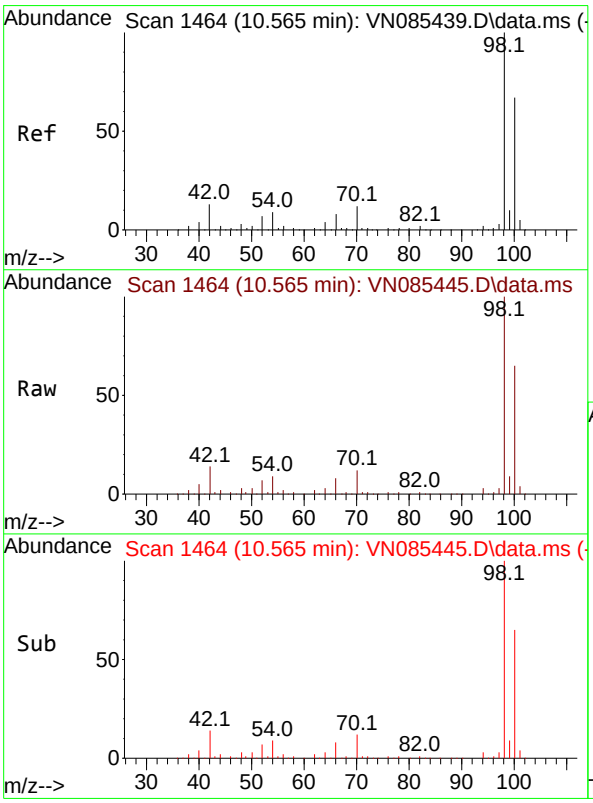
#49
1,4-Dioxane
Concen: 792.760 ug/l
RT: 9.689 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Tgt Ion: 88 Resp: 35051

Ion	Ratio	Lower	Upper
88	100		
43	33.8	26.6	39.8
58	76.1	59.5	89.3

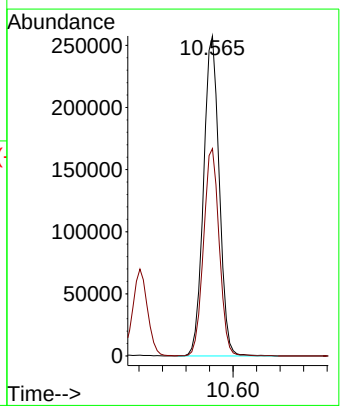


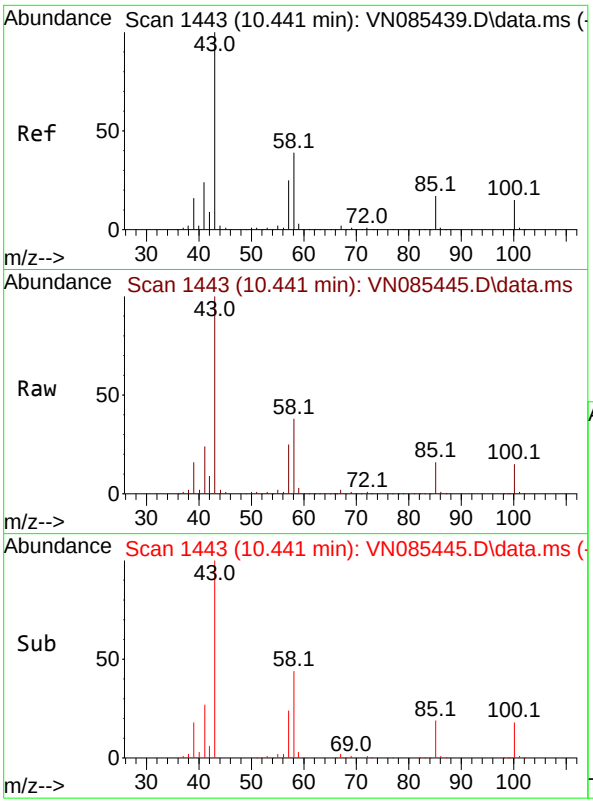


#50
Toluene-d8
Concen: 52.302 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 98 Resp: 477630

Ion	Ratio	Lower	Upper
98	100		
100	64.7	52.2	78.4



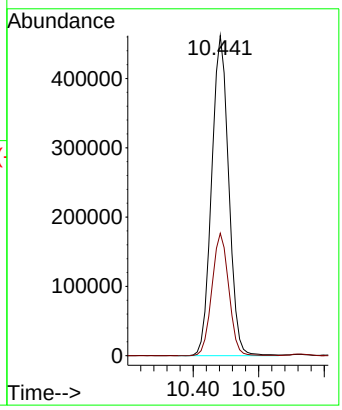


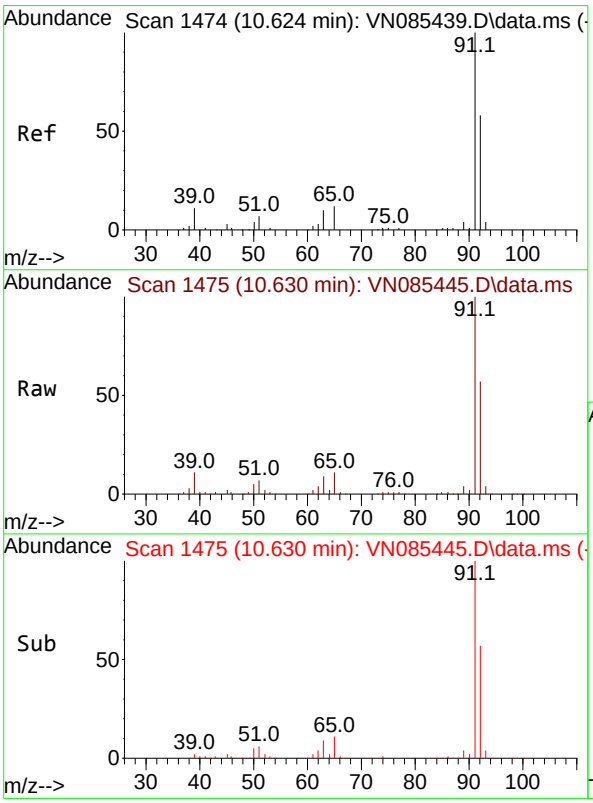
#51
4-Methyl-2-Pentanone
Concen: 245.877 ug/l
RT: 10.441 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Tgt Ion: 43 Resp: 832426

Ion	Ratio	Lower	Upper
43	100		
58	37.8	30.5	45.7

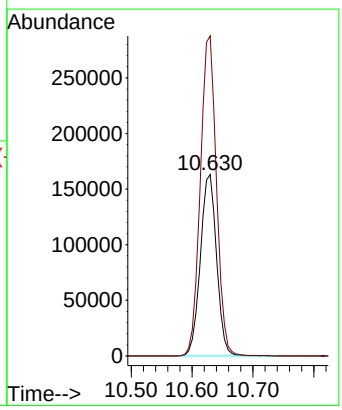


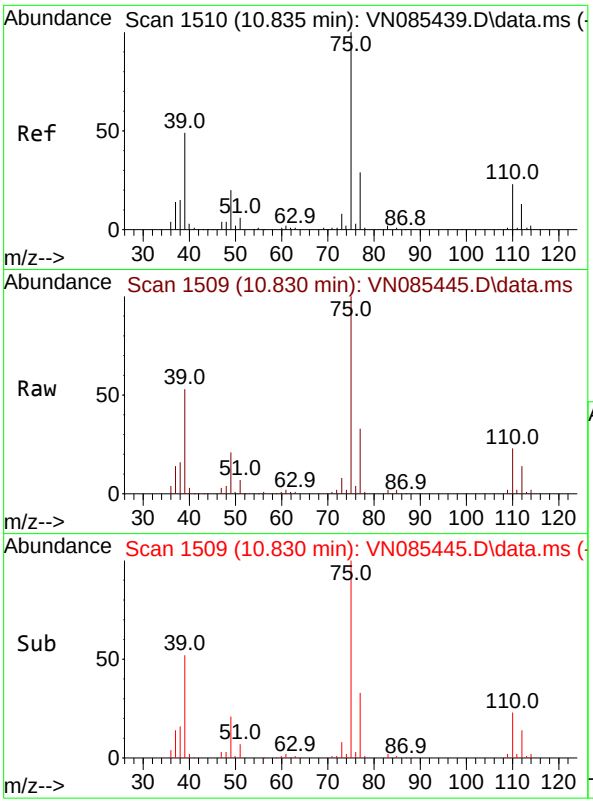


#52
Toluene
Concen: 48.073 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 92 Resp: 301911

Ion	Ratio	Lower	Upper
92	100		
91	175.7	139.2	208.8



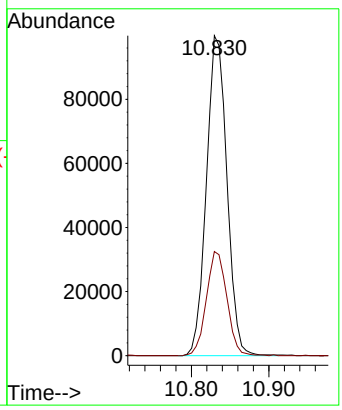


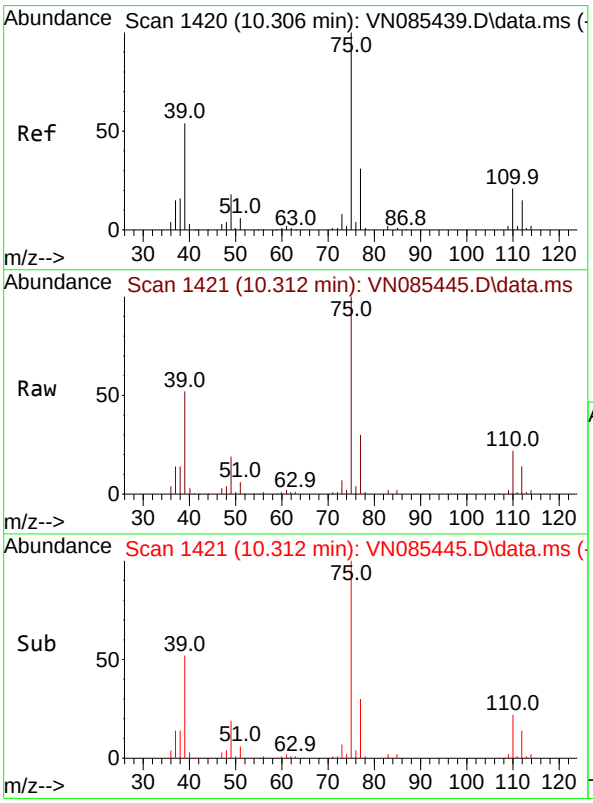
#53
t-1,3-Dichloropropene
Concen: 47.757 ug/l
RT: 10.830 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Tgt Ion: 75 Resp: 183680

Ion	Ratio	Lower	Upper
75	100		
77	32.6	23.5	35.3

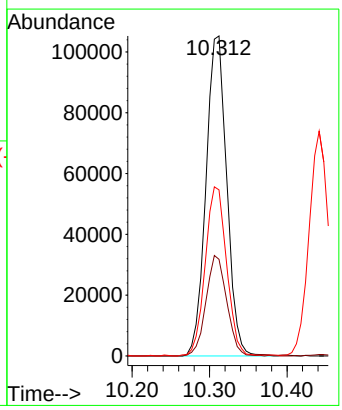


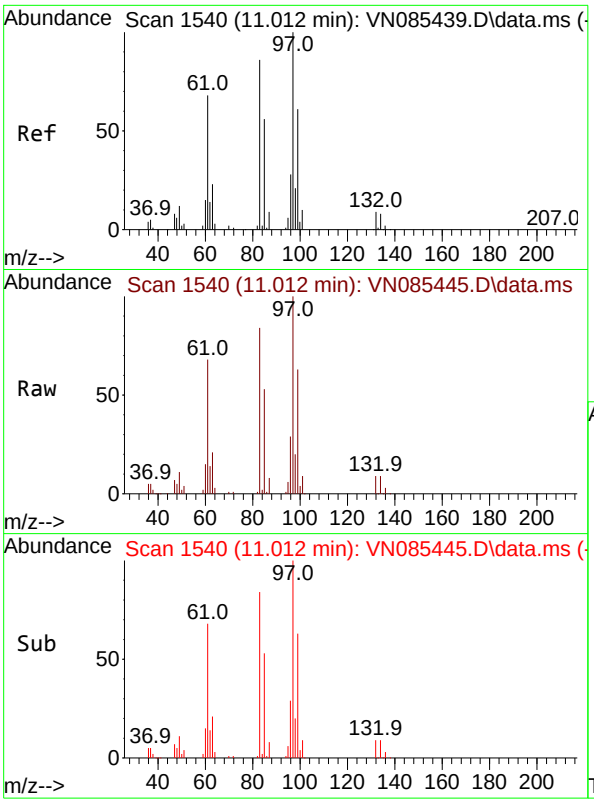


#54
cis-1,3-Dichloropropene
Concen: 47.783 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 75 Resp: 196307

Ion	Ratio	Lower	Upper
75	100		
77	30.2	25.0	37.4
39	51.9	43.1	64.7



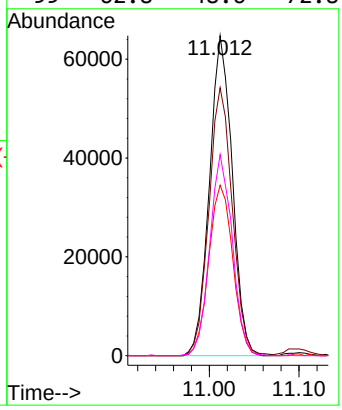


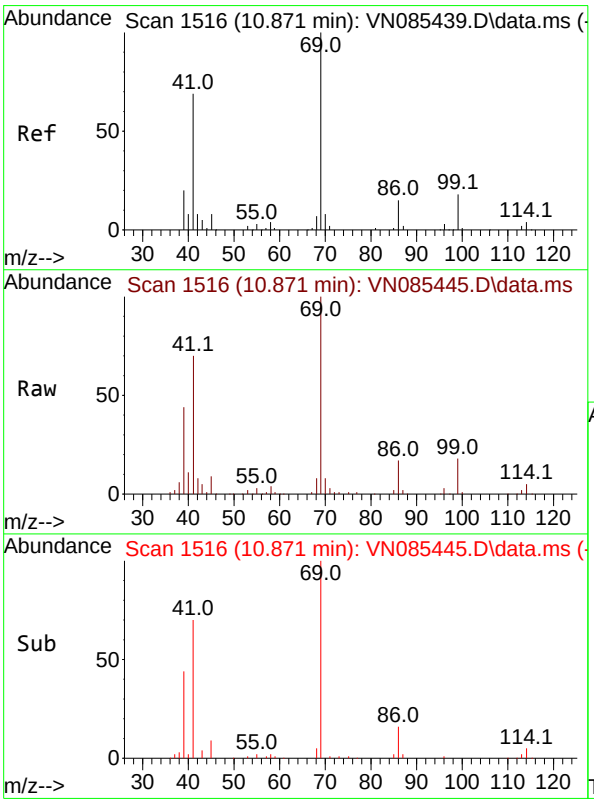
#55
1,1,2-Trichloroethane
Concen: 46.173 ug/l
RT: 11.012 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Tgt Ion: 97 Resp: 114757

Ion	Ratio	Lower	Upper
97	100		
83	83.7	69.0	103.6
85	53.2	44.6	66.8
99	62.8	48.6	72.8

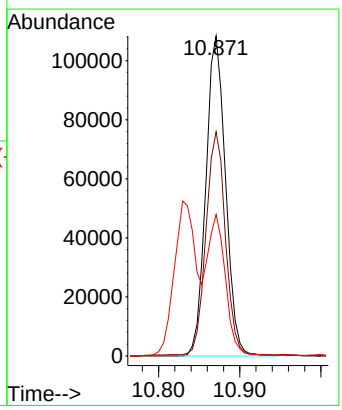


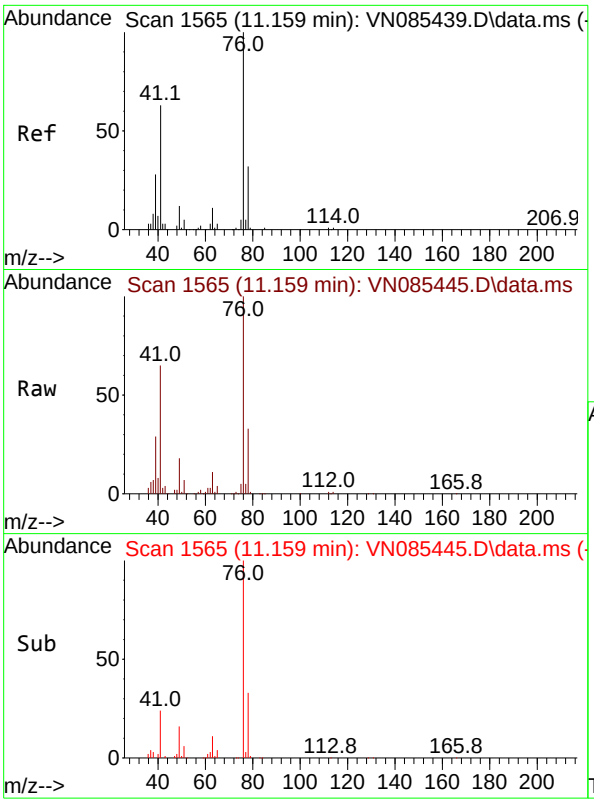


#56
Ethyl methacrylate
Concen: 43.762 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 69 Resp: 182170

Ion	Ratio	Lower	Upper
69	100		
41	70.4	54.6	82.0
39	40.2	32.4	48.6



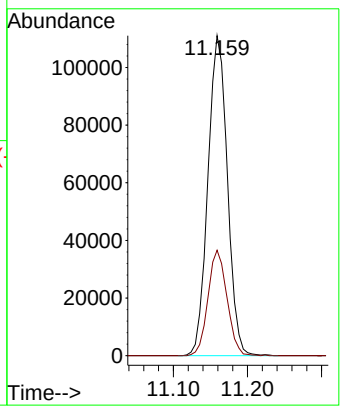


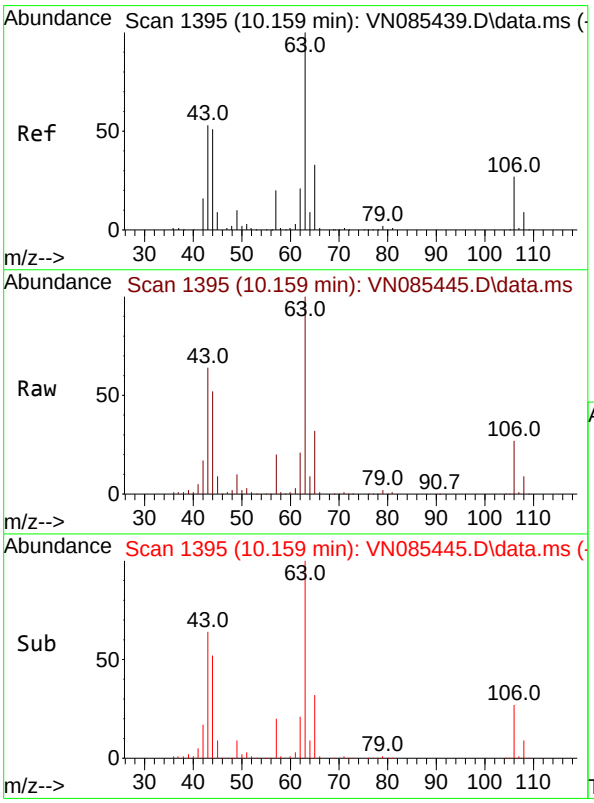
#57
1,3-Dichloropropane
Concen: 46.877 ug/l
RT: 11.159 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Tgt Ion: 76 Resp: 202583

Ion	Ratio	Lower	Upper
76	100		
78	32.1	25.6	38.4

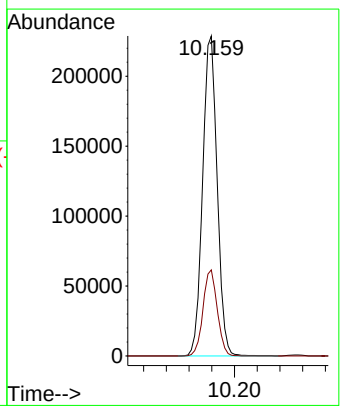


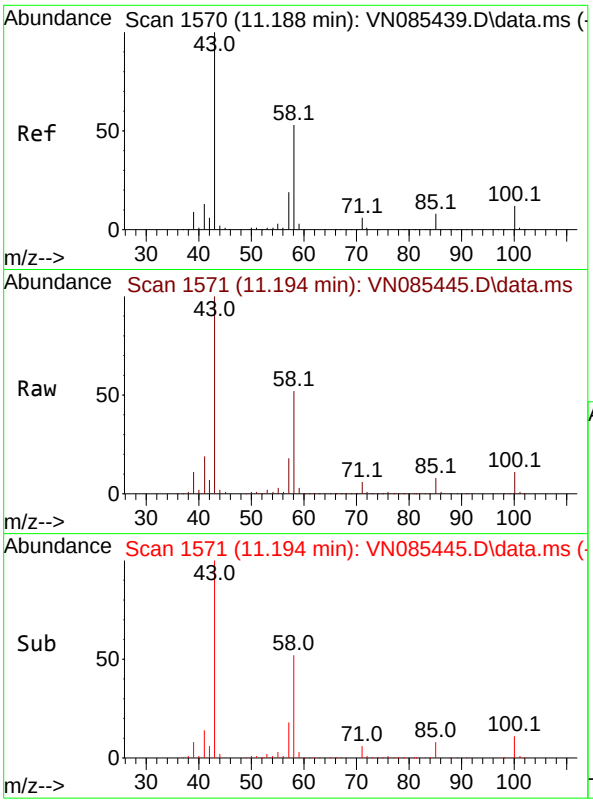


#58
2-Chloroethyl Vinyl ether
Concen: 256.116 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 63 Resp: 403949

Ion	Ratio	Lower	Upper
63	100		
106	26.4	21.6	32.4



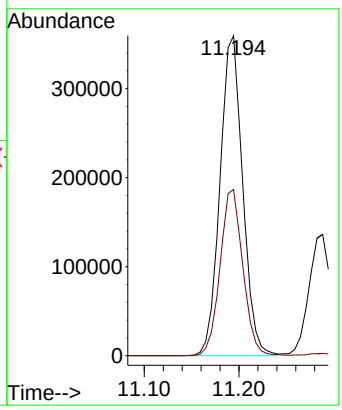


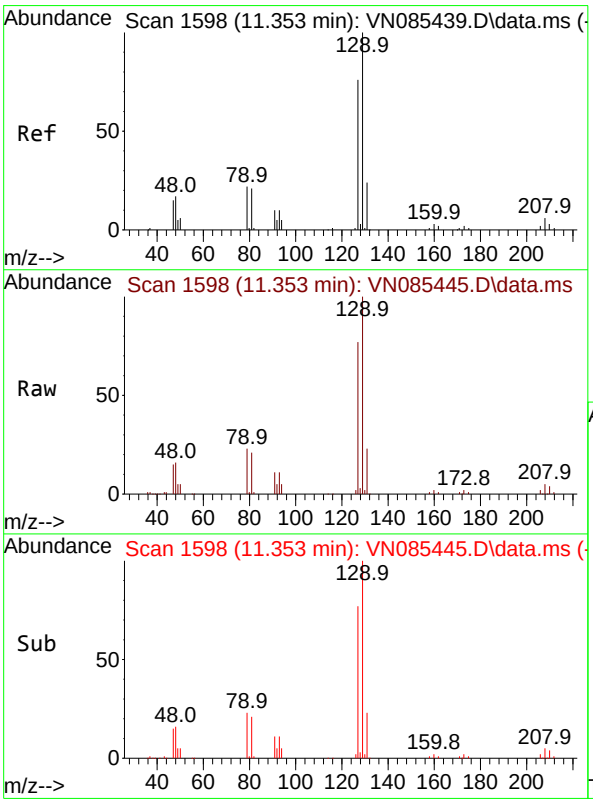
#59
2-Hexanone
Concen: 251.213 ug/l
RT: 11.194 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Tgt Ion: 43 Resp: 598433

Ion	Ratio	Lower	Upper
43	100		
58	52.1	26.2	78.6

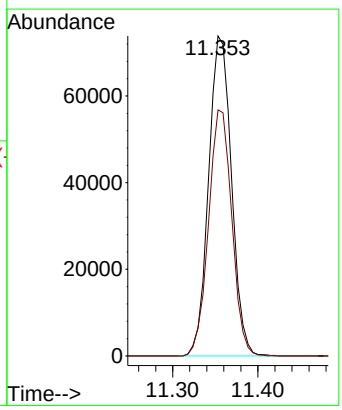


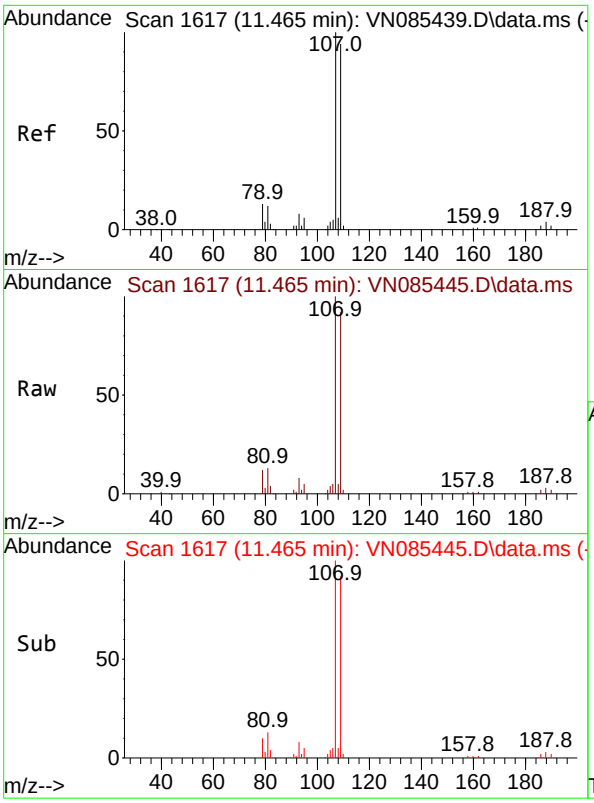


#60
Dibromochloromethane
Concen: 45.935 ug/l
RT: 11.353 min Scan# 1598
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion:129 Resp: 137831

Ion	Ratio	Lower	Upper
129	100		
127	78.1	38.6	115.8



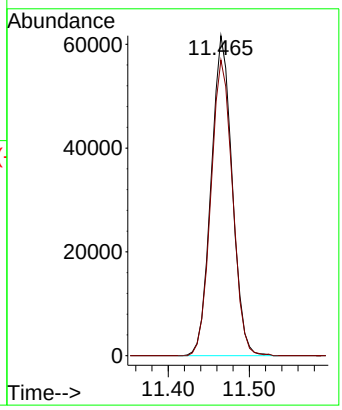


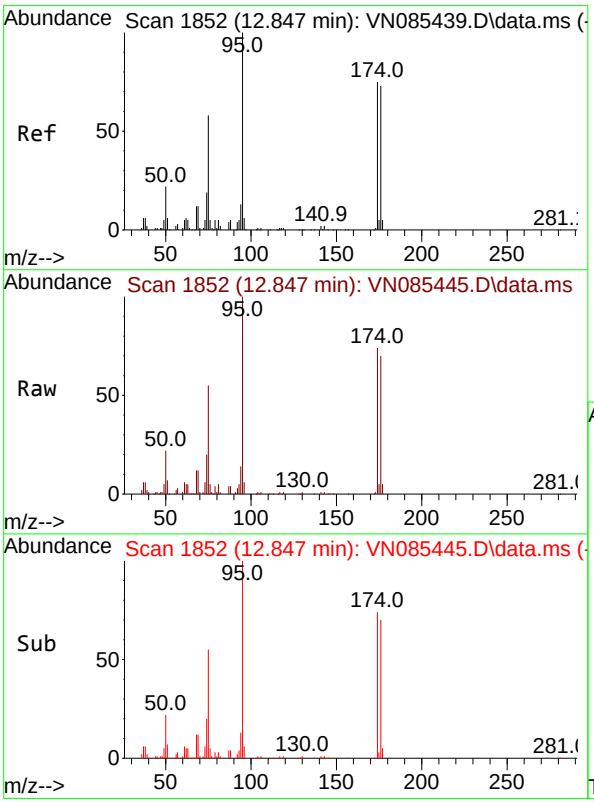
#61
1,2-Dibromoethane
Concen: 44.837 ug/l
RT: 11.465 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Tgt Ion:107 Resp: 110926

Ion	Ratio	Lower	Upper
107	100		
109	94.7	75.9	113.9

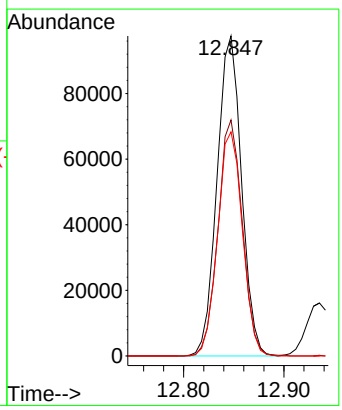


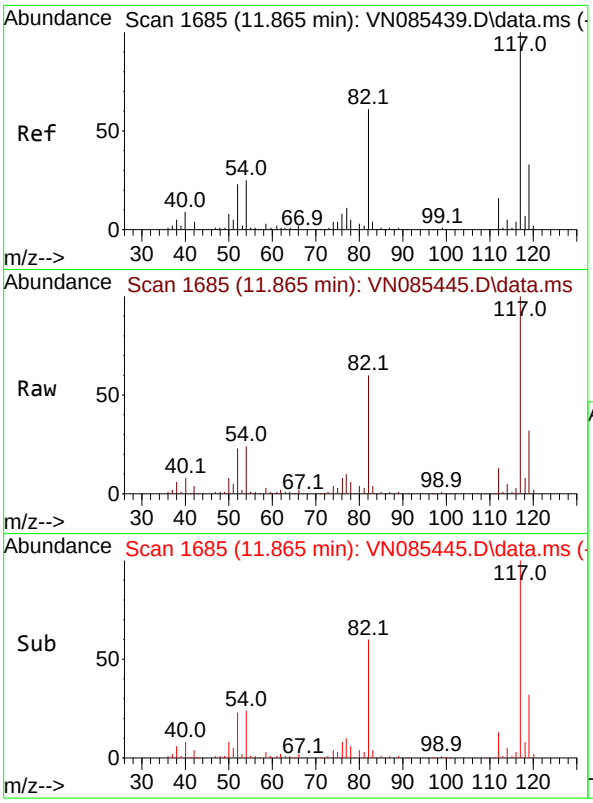


#62
4-Bromofluorobenzene
Concen: 52.899 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 95 Resp: 165249

Ion	Ratio	Lower	Upper
95	100		
174	73.1	0.0	145.0
176	70.8	0.0	142.4



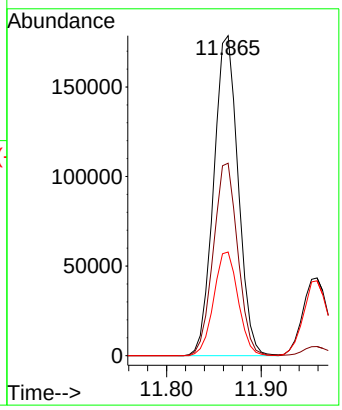


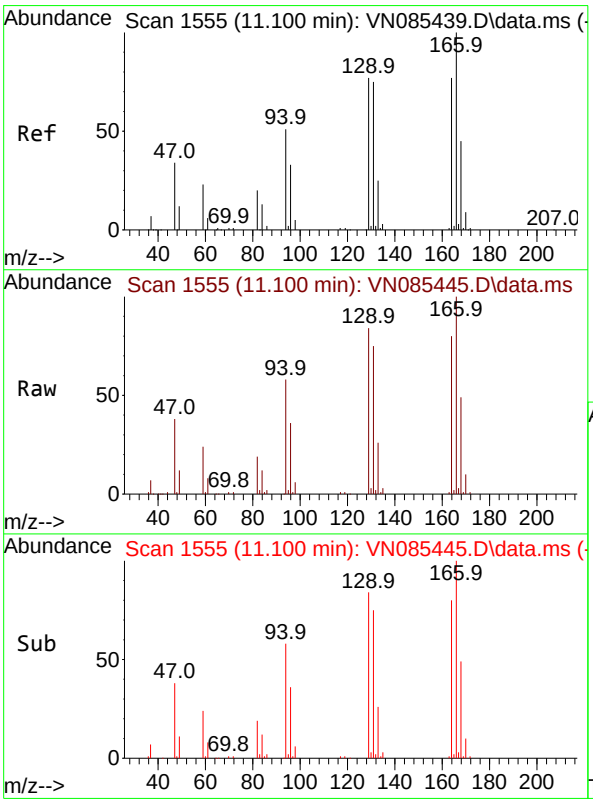
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Tgt Ion:117 Resp: 320948

Ion	Ratio	Lower	Upper
117	100		
82	60.1	48.6	72.8
119	32.4	26.6	39.8

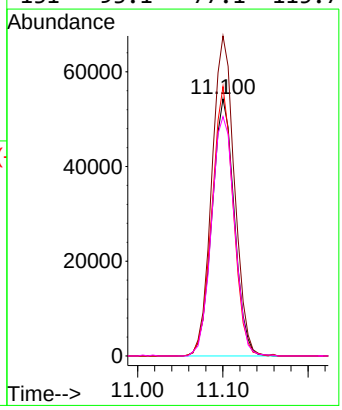


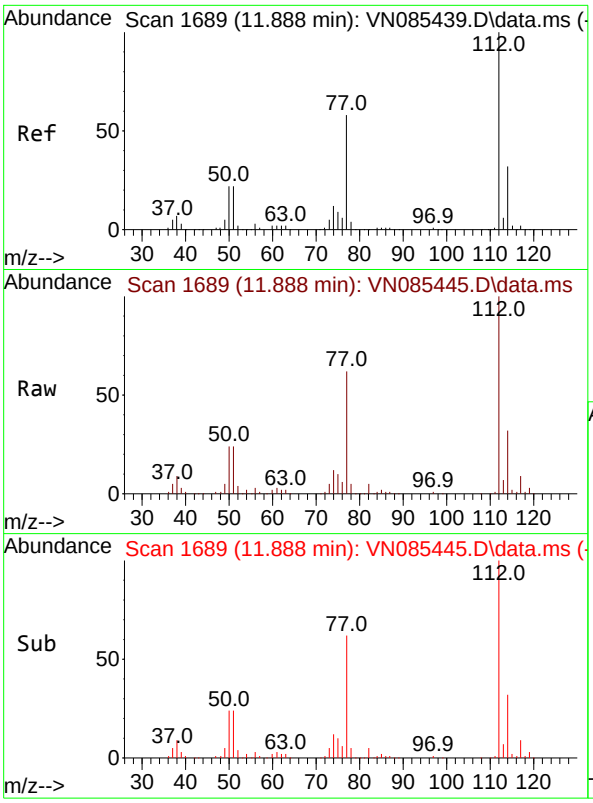


#64
Tetrachloroethene
Concen: 44.886 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion:164 Resp: 98211

Ion	Ratio	Lower	Upper
164	100		
166	124.4	103.4	155.2
129	104.8	79.2	118.8
131	93.1	77.1	115.7



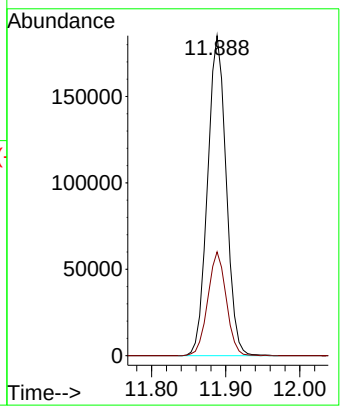


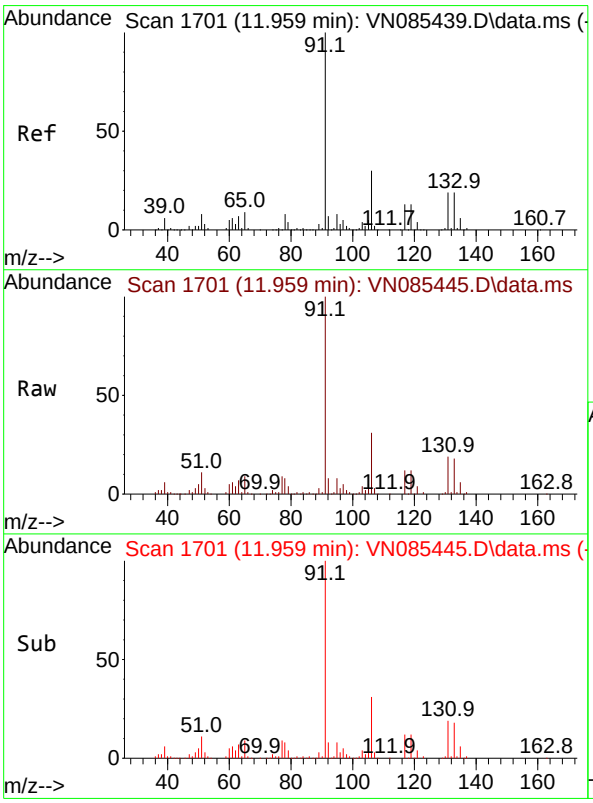
#65
Chlorobenzene
Concen: 45.901 ug/l
RT: 11.888 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Tgt Ion:112 Resp: 322723

Ion	Ratio	Lower	Upper
112	100		
114	32.4	25.3	37.9

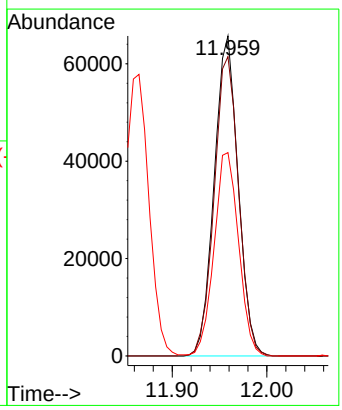


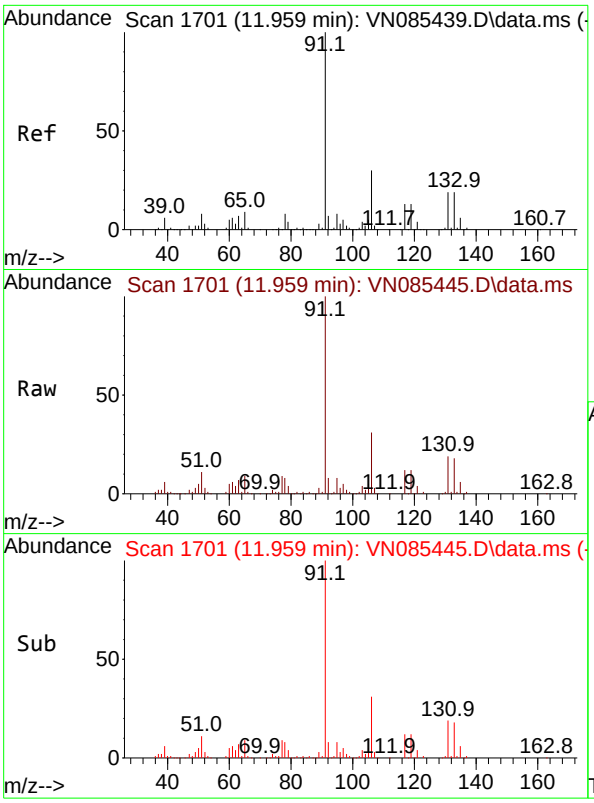


#66
1,1,1,2-Tetrachloroethane
Concen: 44.712 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion:131 Resp: 115379

Ion	Ratio	Lower	Upper
131	100		
133	95.8	47.4	142.3
119	65.2	33.1	99.5



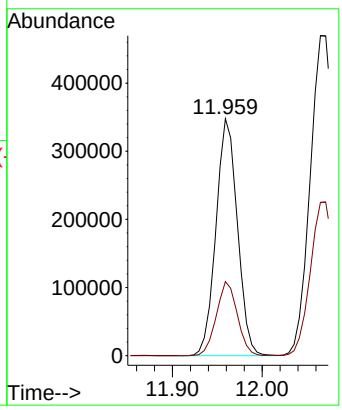


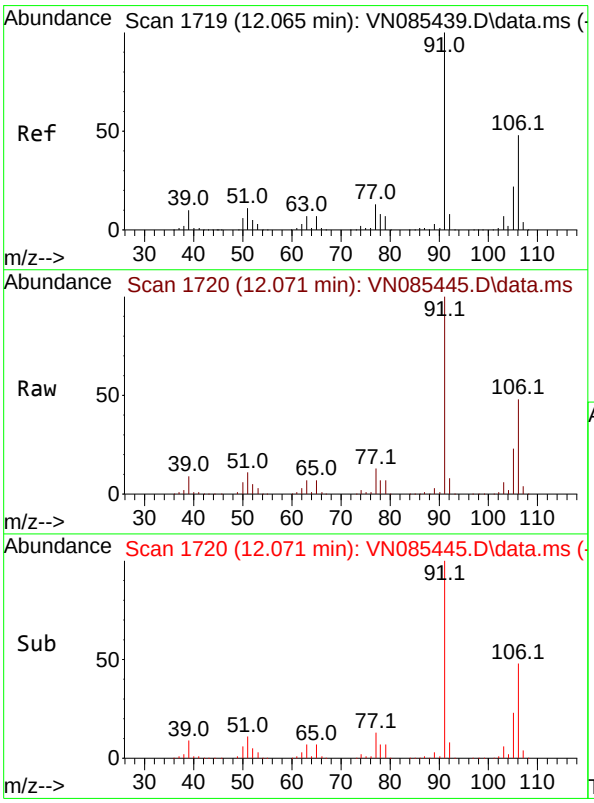
#67
Ethyl Benzene
Concen: 50.391 ug/l
RT: 11.959 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Tgt Ion: 91 Resp: 577059

Ion	Ratio	Lower	Upper
91	100		
106	31.2	23.8	35.8

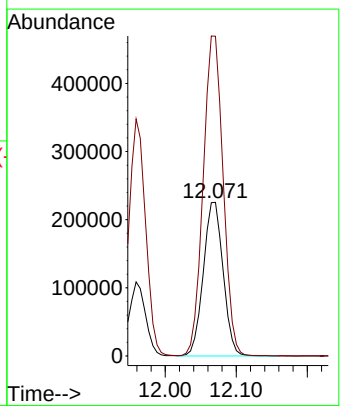


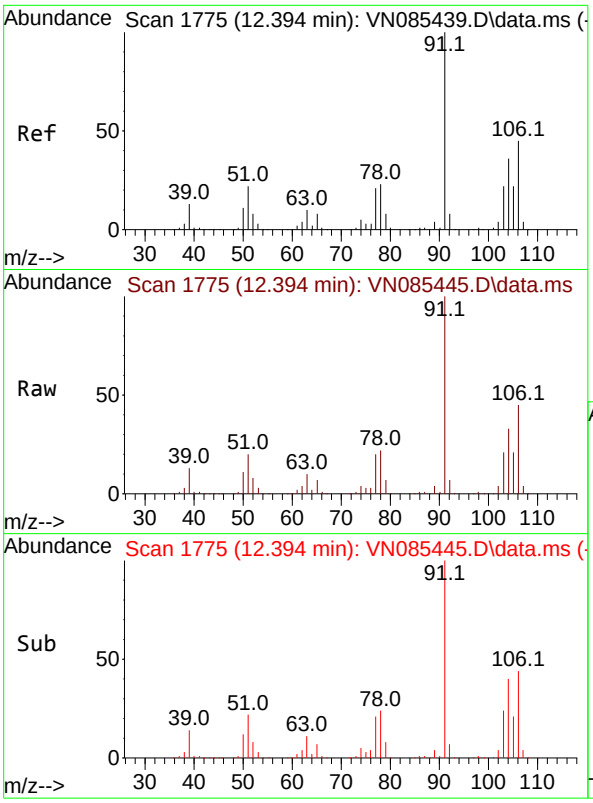


#68
m/p-Xylenes
Concen: 103.341 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion:106 Resp: 437367

Ion	Ratio	Lower	Upper
106	100		
91	210.1	167.7	251.5



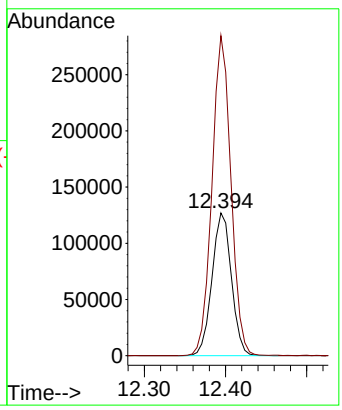


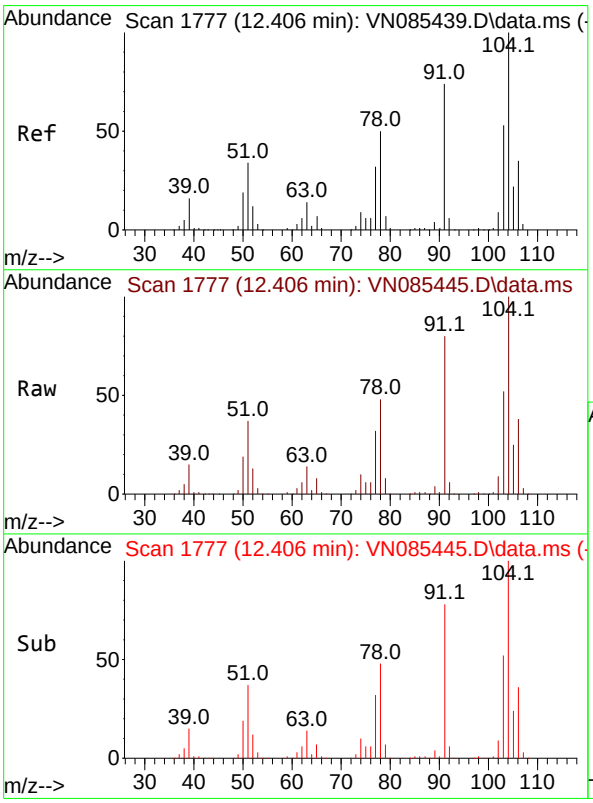
#69
o-Xylene
Concen: 52.093 ug/l
RT: 12.394 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Tgt Ion:106 Resp: 210698

Ion	Ratio	Lower	Upper
106	100		
91	219.9	110.4	331.2

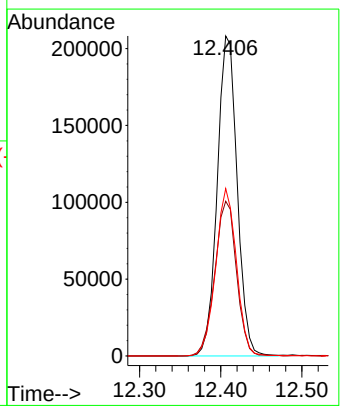


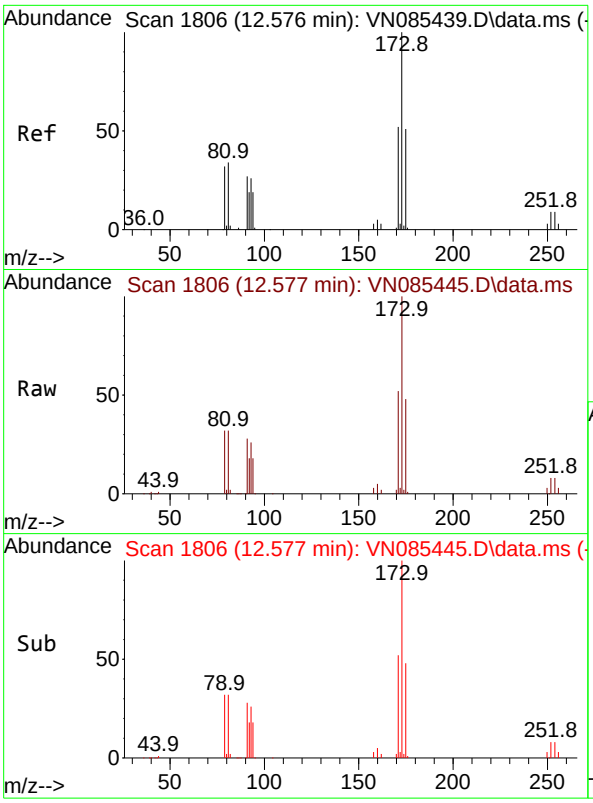


#70
Styrene
Concen: 53.103 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion:104 Resp: 355459

Ion	Ratio	Lower	Upper
104	100		
78	52.8	42.5	63.7
103	54.5	43.8	65.8



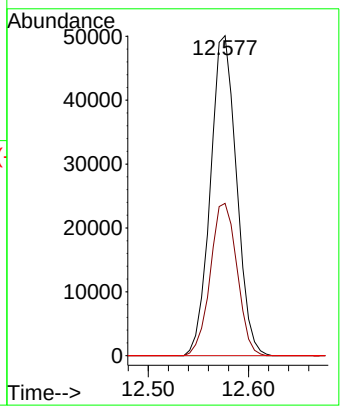


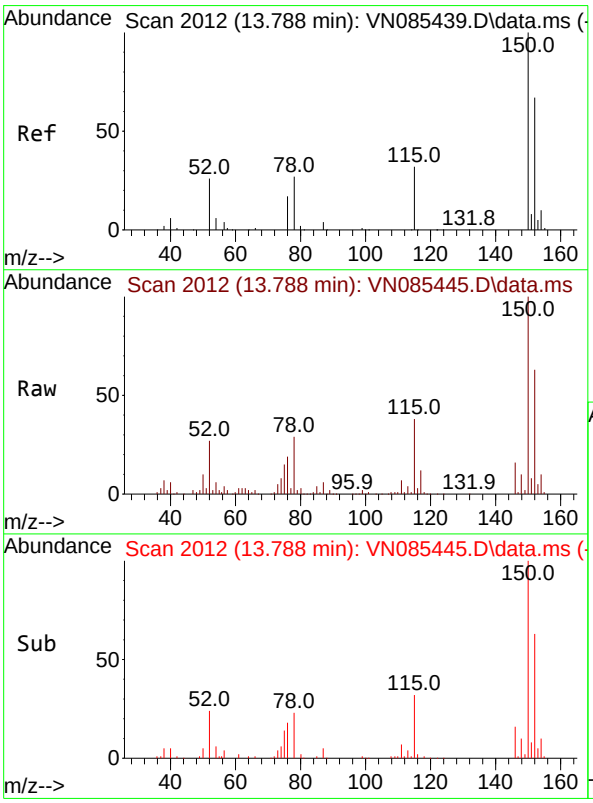
#71
Bromoform
Concen: 49.119 ug/l
RT: 12.577 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Tgt Ion:173 Resp: 90693

Ion	Ratio	Lower	Upper
173	100		
175	48.7	24.4	73.2
254	0.0	0.0	0.0

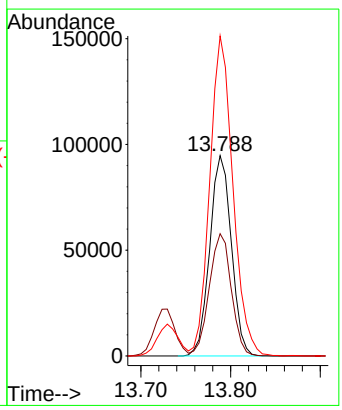


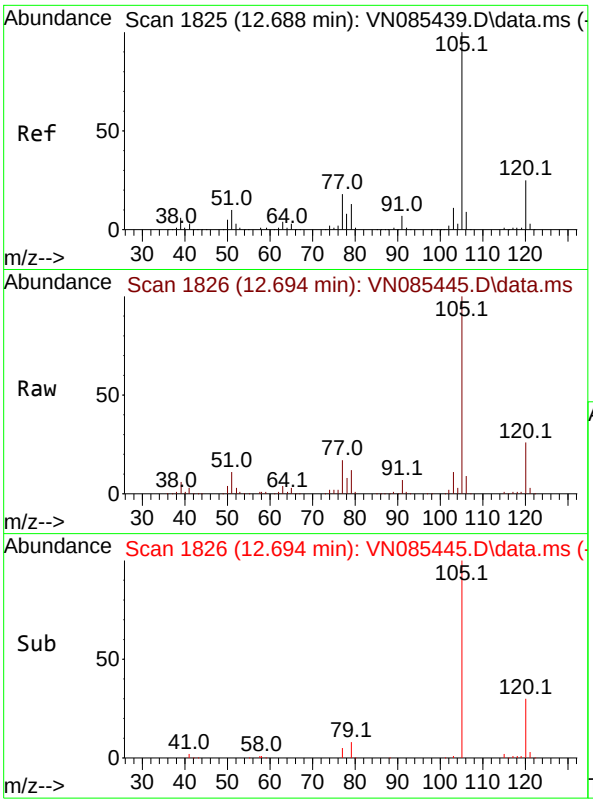


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion:152 Resp: 158525

Ion	Ratio	Lower	Upper
152	100		
115	62.2	31.1	93.3
150	171.0	0.0	343.6



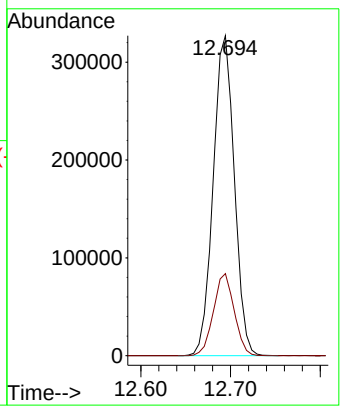


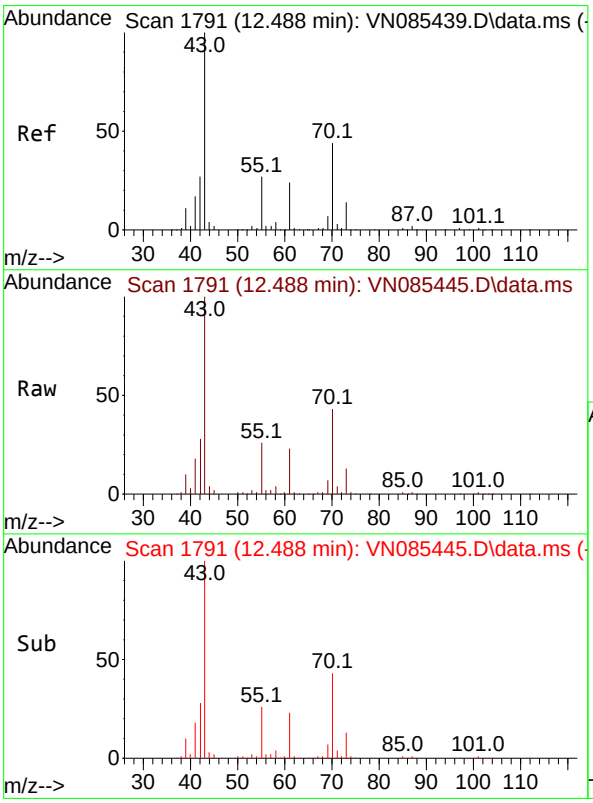
#73
Isopropylbenzene
Concen: 49.951 ug/l
RT: 12.694 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Tgt Ion:105 Resp: 534428

Ion	Ratio	Lower	Upper
105	100		
120	25.2	12.8	38.3

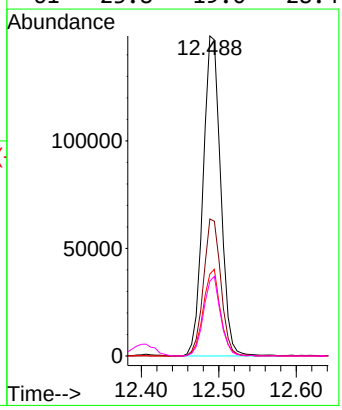


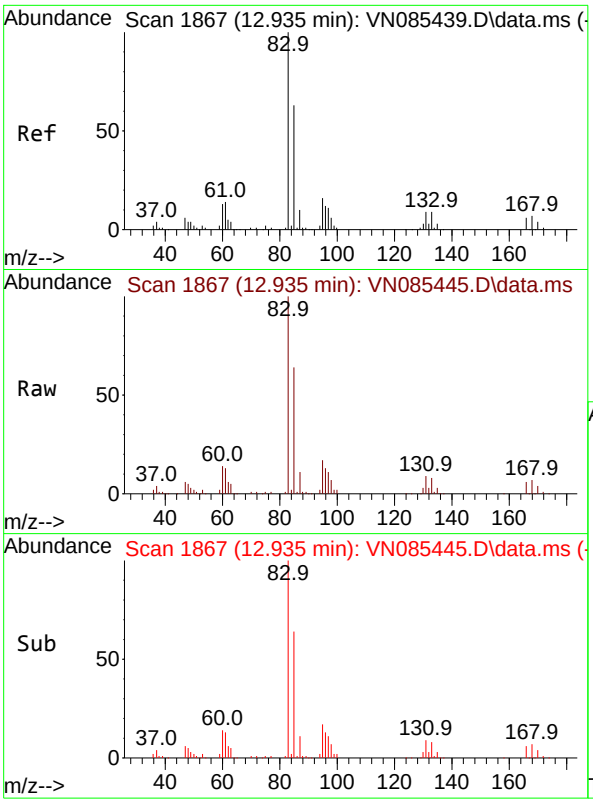


#74
N-amyl acetate
Concen: 48.730 ug/l
RT: 12.488 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 43 Resp: 234342

Ion	Ratio	Lower	Upper
43	100		
70	42.2	34.0	51.0
55	26.5	21.4	32.2
61	23.8	19.0	28.4



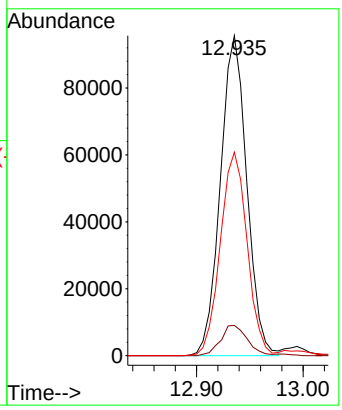


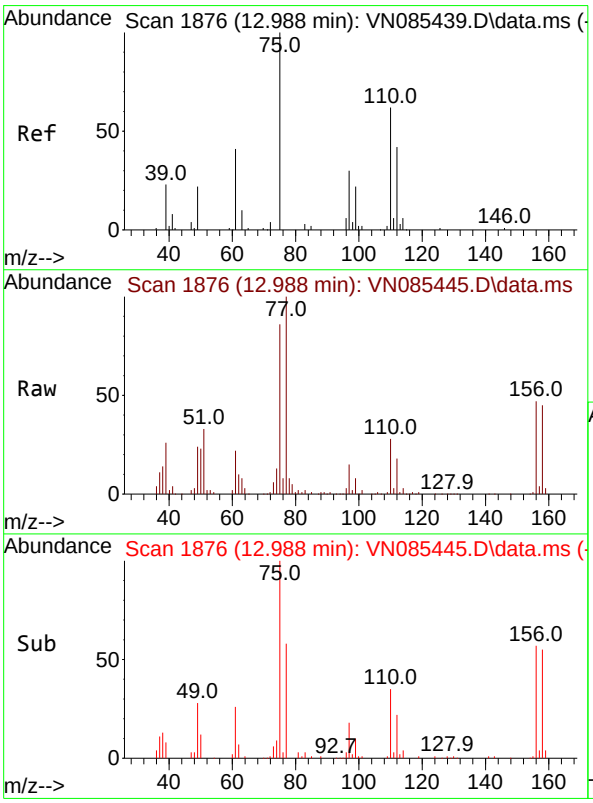
#75
1,1,2,2-Tetrachloroethane
Concen: 43.627 ug/l
RT: 12.935 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Tgt Ion: 83 Resp: 164882

Ion	Ratio	Lower	Upper
83	100		
131	9.9	4.8	14.4
85	64.6	32.2	96.6

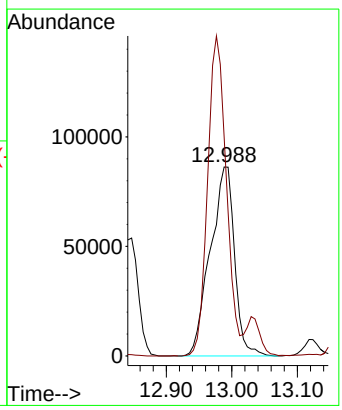


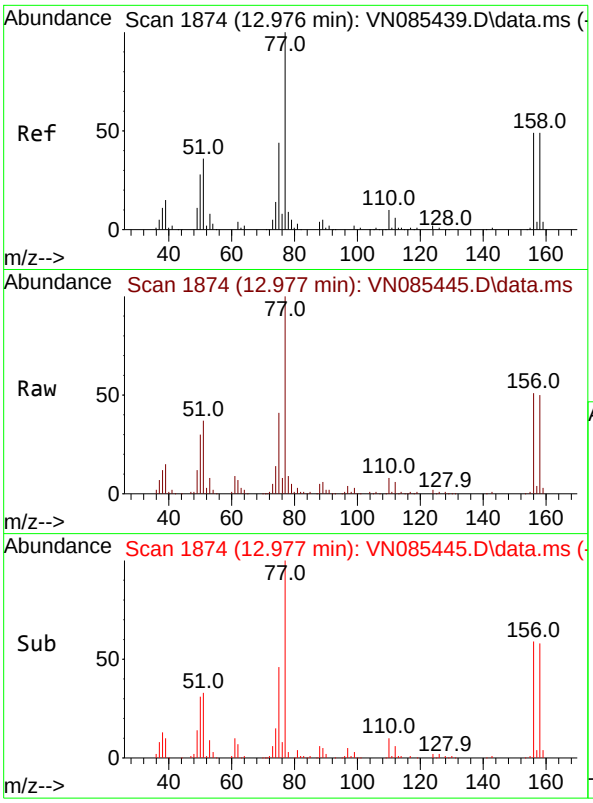


#76
1,2,3-Trichloropropane
Concen: 68.739 ug/l
RT: 12.988 min Scan# 1876
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 75 Resp: 221480

Ion	Ratio	Lower	Upper
75	100		
77	130.3	109.7	329.2



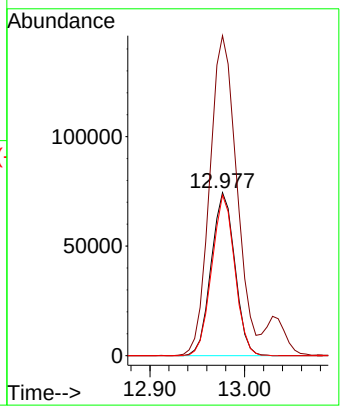


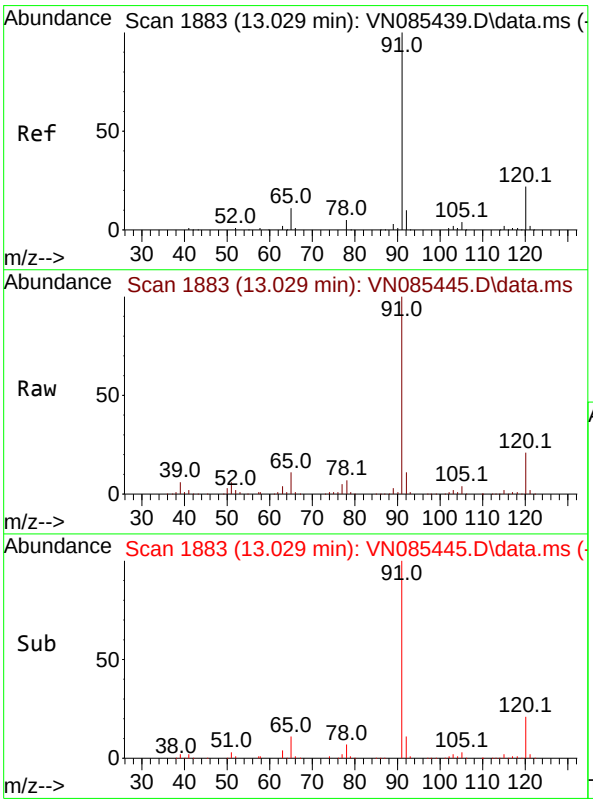
#77
Bromobenzene
Concen: 46.138 ug/l
RT: 12.977 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Tgt Ion:156 Resp: 128968

Ion	Ratio	Lower	Upper
156	100		
77	223.8	114.1	342.4
158	95.7	48.9	146.8

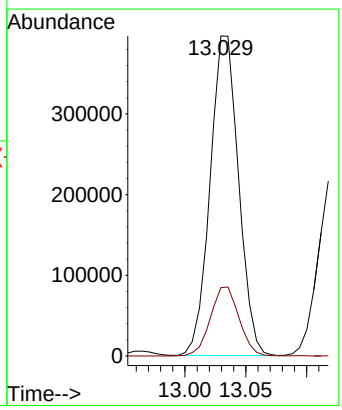


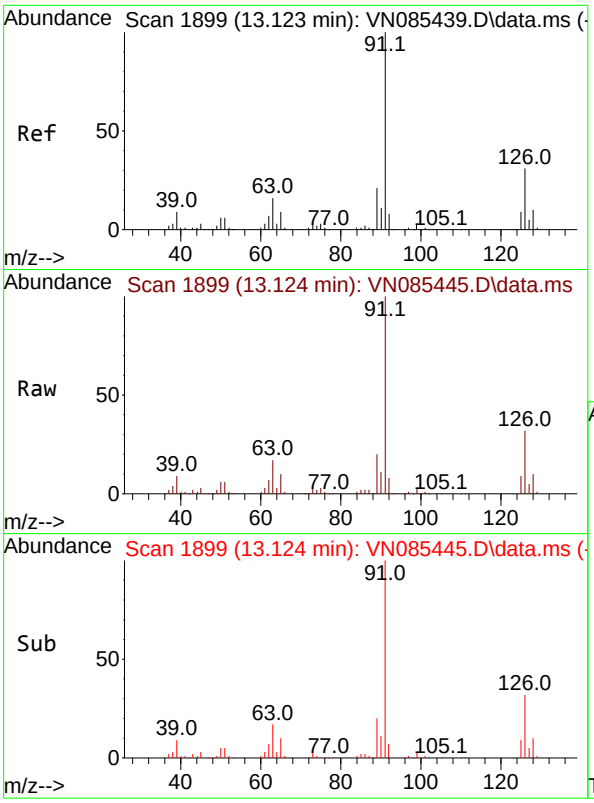


#78
n-propylbenzene
Concen: 51.001 ug/l
RT: 13.029 min Scan# 1883
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 91 Resp: 645977

Ion	Ratio	Lower	Upper
91	100		
120	21.7	10.9	32.6



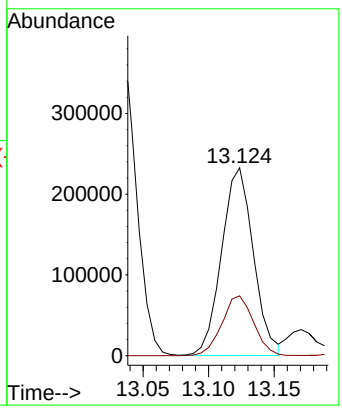


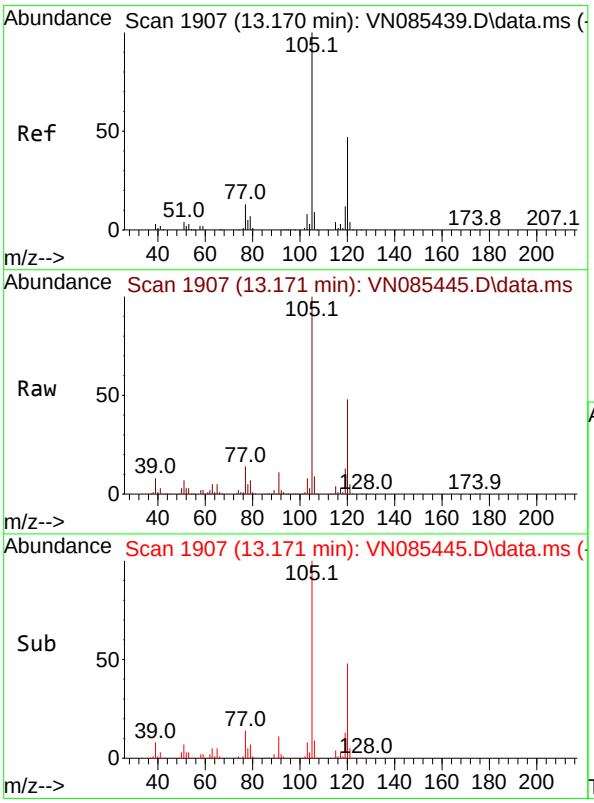
#79
2-Chlorotoluene
Concen: 47.870 ug/l
RT: 13.124 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Tgt Ion: 91 Resp: 392404

Ion	Ratio	Lower	Upper
91	100		
126	31.8	15.7	47.1

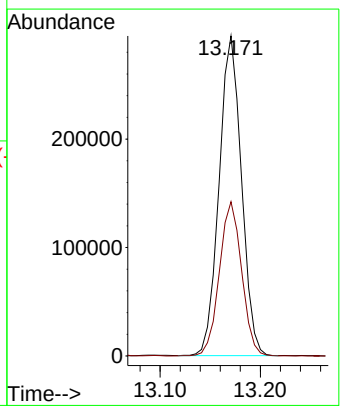


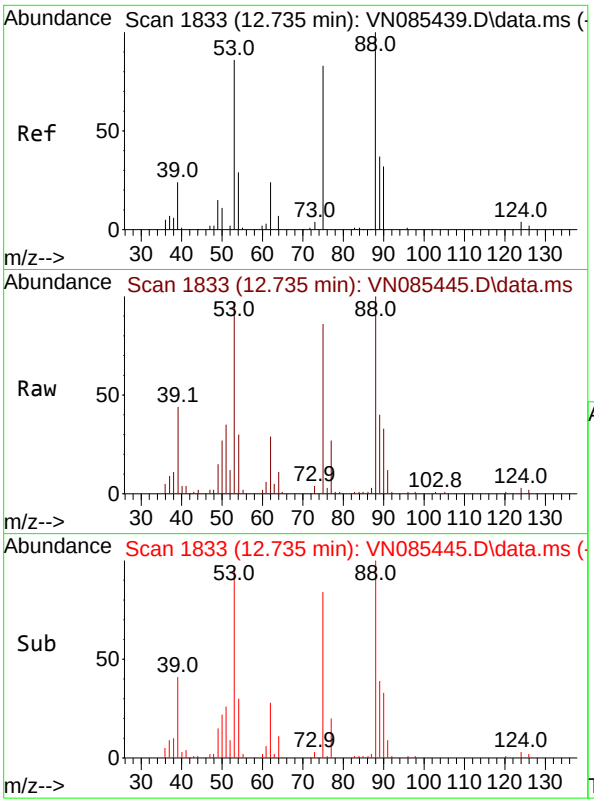


#80
1,3,5-Trimethylbenzene
Concen: 51.604 ug/l
RT: 13.171 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion:105 Resp: 456048

Ion	Ratio	Lower	Upper
105	100		
120	48.1	23.9	71.7



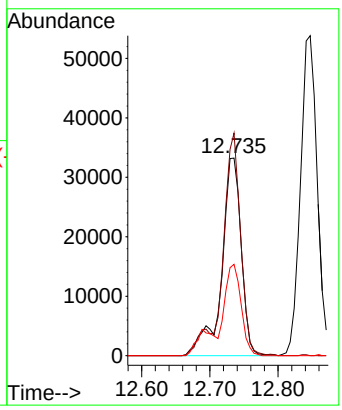


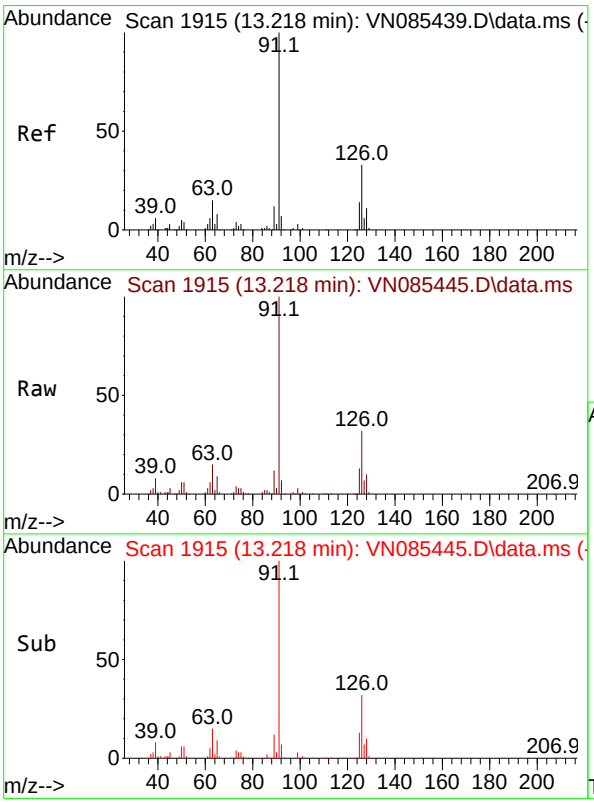
#81
trans-1,4-Dichloro-2-butene
Concen: 56.127 ug/l
RT: 12.735 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Tgt Ion: 75 Resp: 66842

Ion	Ratio	Lower	Upper
75	100		
53	103.5	95.6	143.4
89	38.0	37.0	55.6

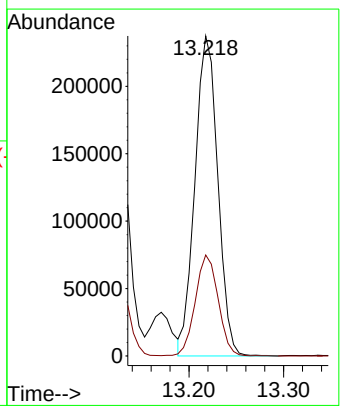


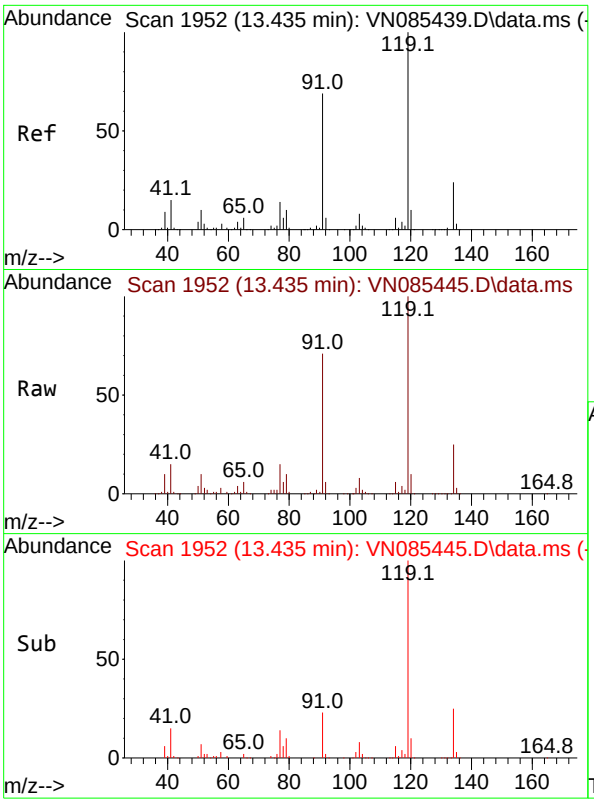


#82
4-Chlorotoluene
Concen: 48.776 ug/l
RT: 13.218 min Scan# 1915
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 91 Resp: 398110

Ion	Ratio	Lower	Upper
91	100		
126	31.6	15.9	47.7



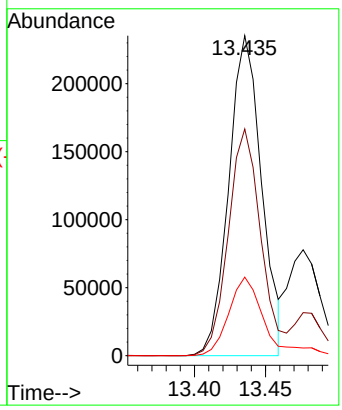


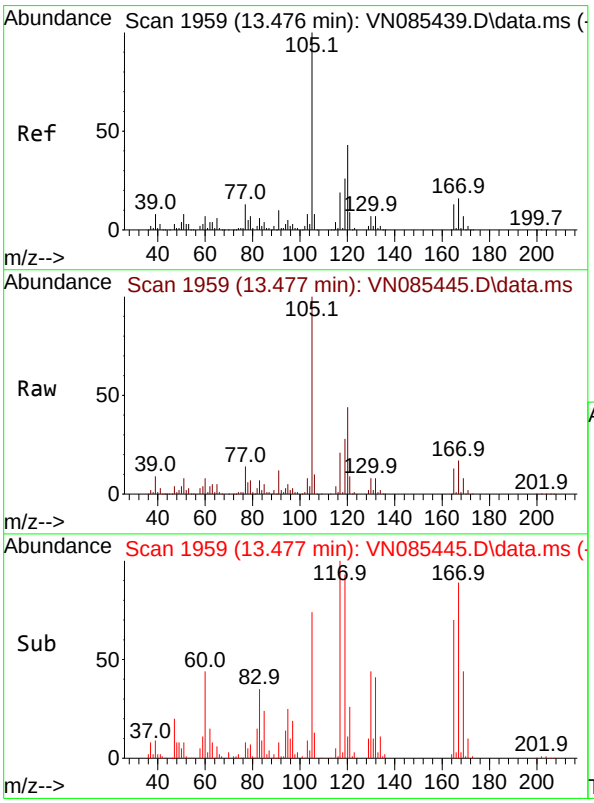
#83
tert-Butylbenzene
Concen: 50.997 ug/l
RT: 13.435 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Tgt Ion:119 Resp: 378478

Ion	Ratio	Lower	Upper
119	100		
91	70.6	35.1	105.3
134	26.7	12.0	36.1

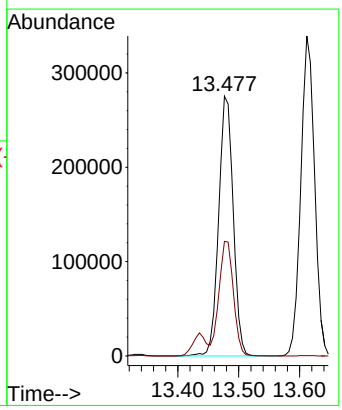


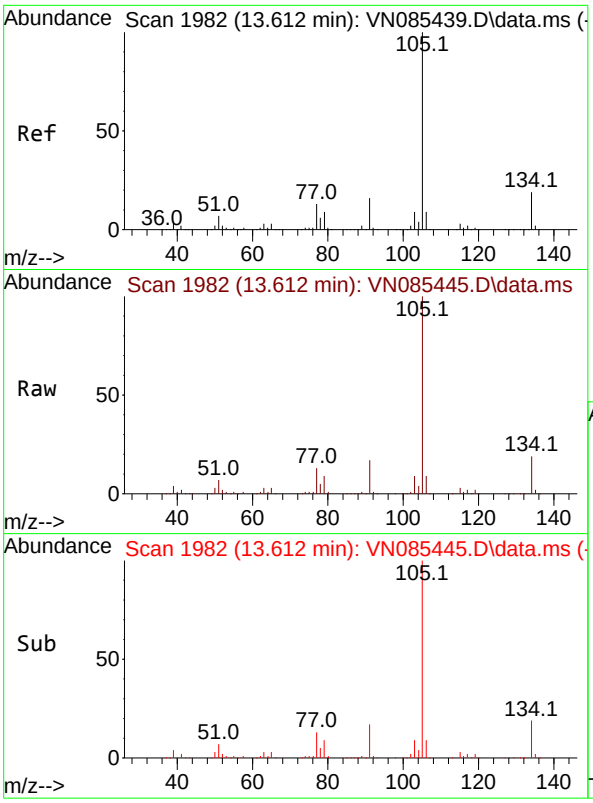


#84
1,2,4-Trimethylbenzene
Concen: 51.922 ug/l
RT: 13.477 min Scan# 1959
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion:105 Resp: 457340

Ion	Ratio	Lower	Upper
105	100		
120	43.6	21.6	65.0



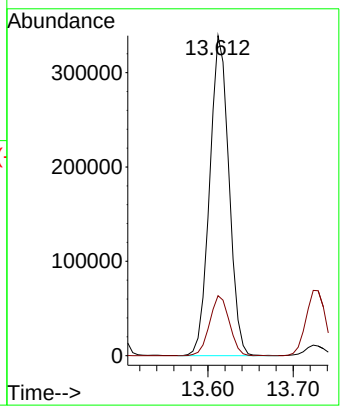


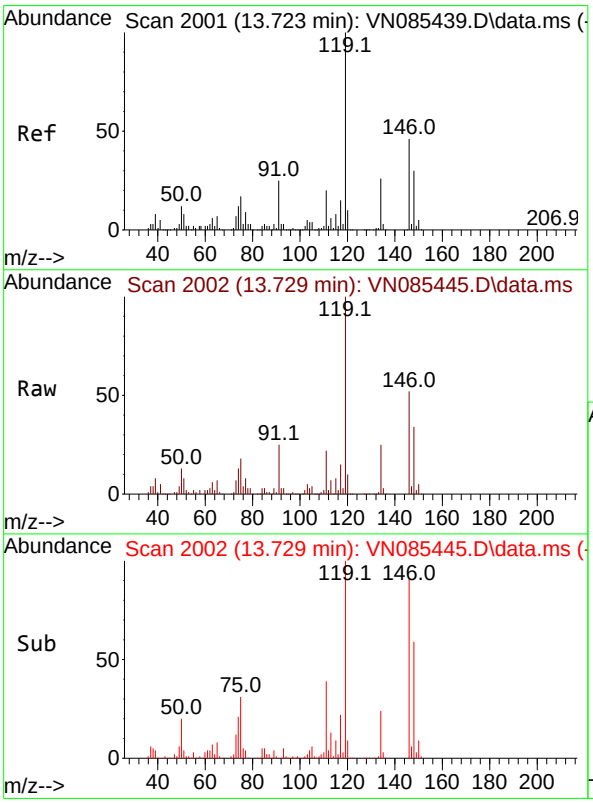
#85
sec-Butylbenzene
Concen: 51.777 ug/l
RT: 13.612 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Tgt Ion:105 Resp: 532578

Ion	Ratio	Lower	Upper
105	100		
134	19.2	9.7	28.9

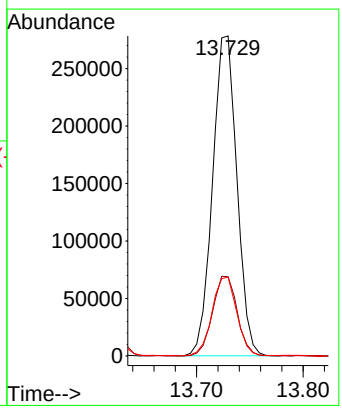


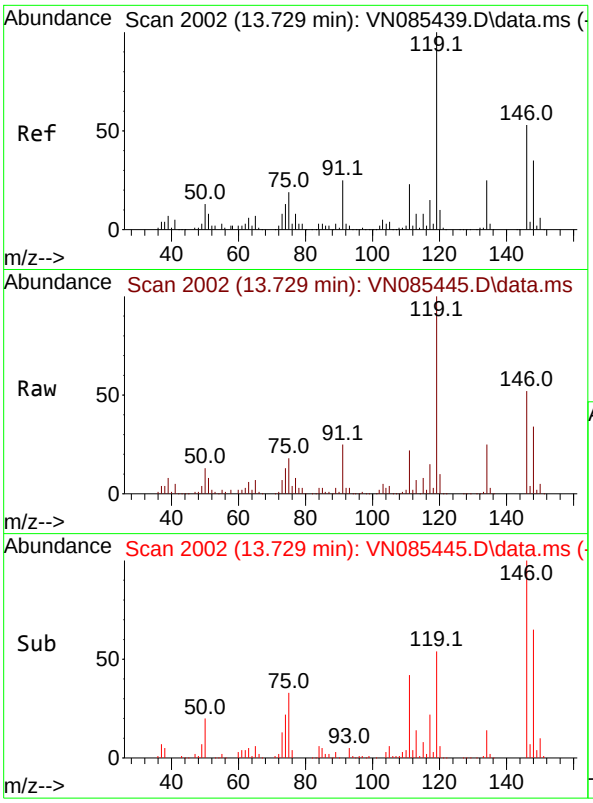


#86
p-Isopropyltoluene
Concen: 47.795 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion:119 Resp: 440284

Ion	Ratio	Lower	Upper
119	100		
134	25.3	12.7	38.0
91	25.0	12.7	38.1



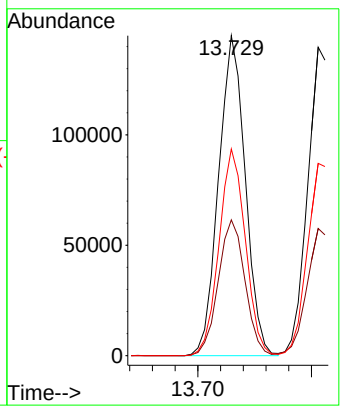


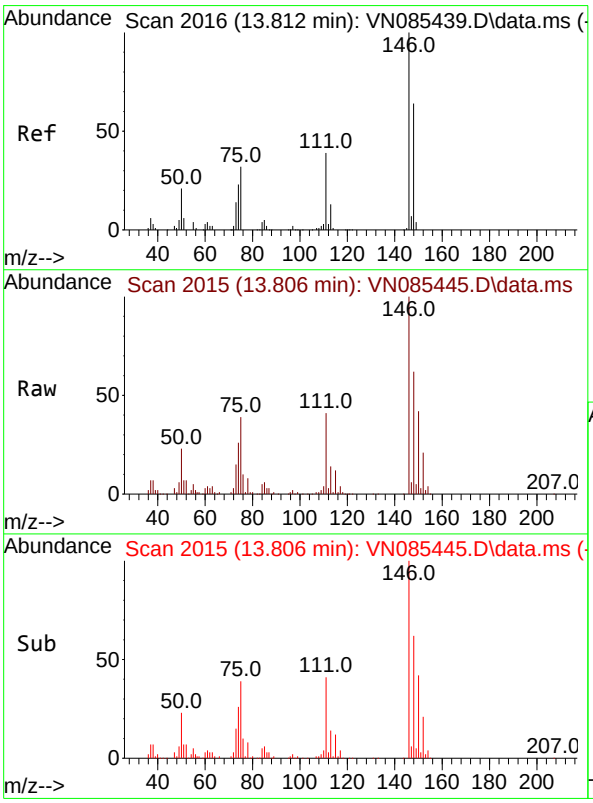
#87
1,3-Dichlorobenzene
Concen: 45.920 ug/l
RT: 13.729 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Tgt Ion:146 Resp: 236387

Ion	Ratio	Lower	Upper
146	100		
111	42.6	21.4	64.3
148	63.8	32.3	96.9

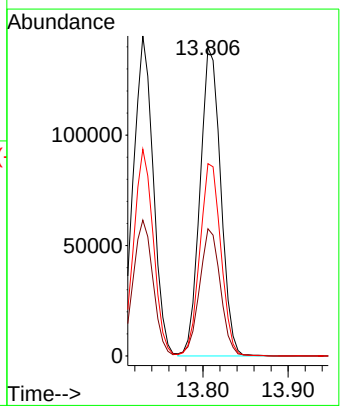


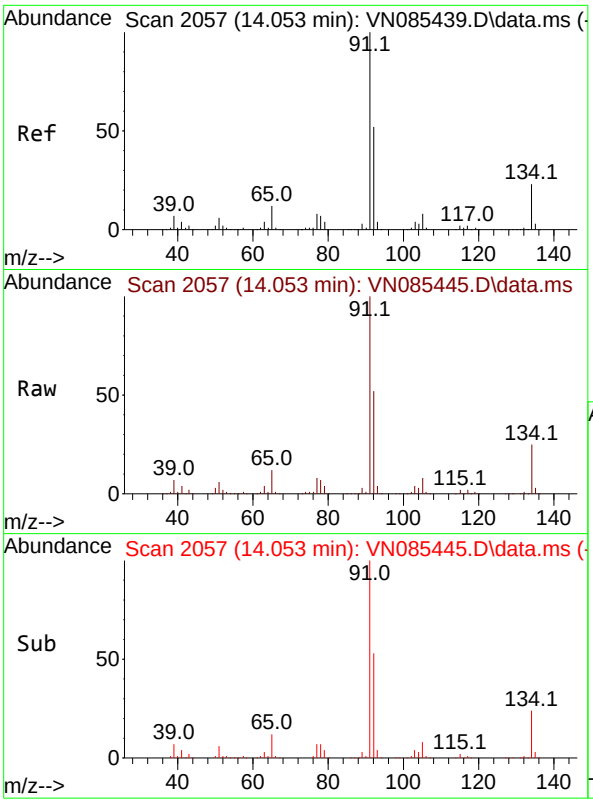


#88
1,4-Dichlorobenzene
Concen: 44.102 ug/l
RT: 13.806 min Scan# 2015
Delta R.T. -0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion:146 Resp: 235319

Ion	Ratio	Lower	Upper
146	100		
111	41.9	21.3	63.7
148	63.5	32.4	97.0



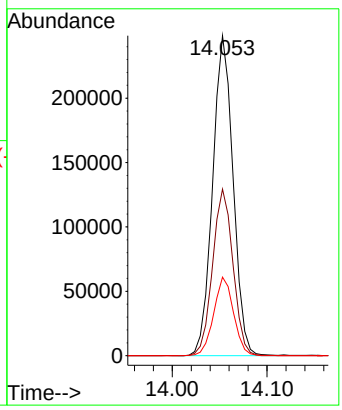


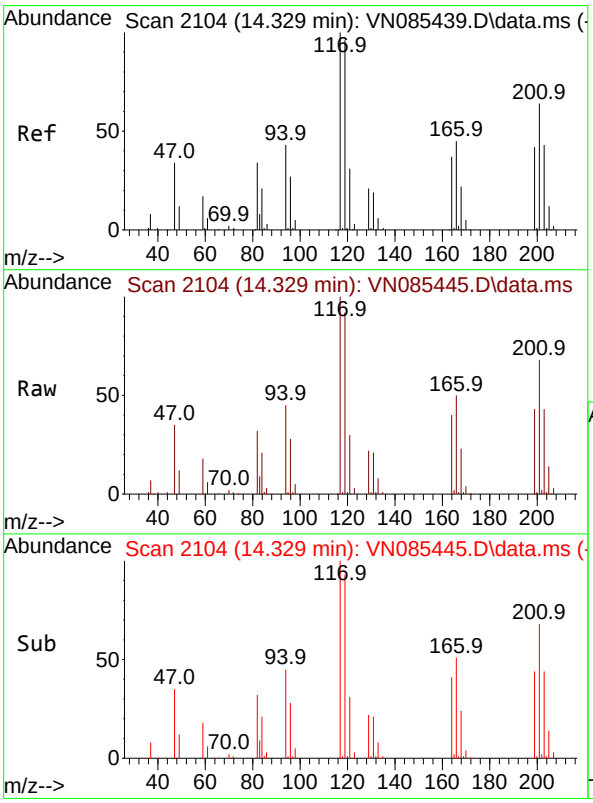
#89
n-Butylbenzene
Concen: 50.578 ug/l
RT: 14.053 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Tgt Ion: 91 Resp: 373227

Ion	Ratio	Lower	Upper
91	100		
92	51.9	25.8	77.3
134	23.8	11.7	35.1

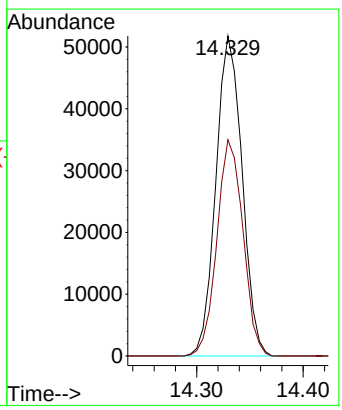


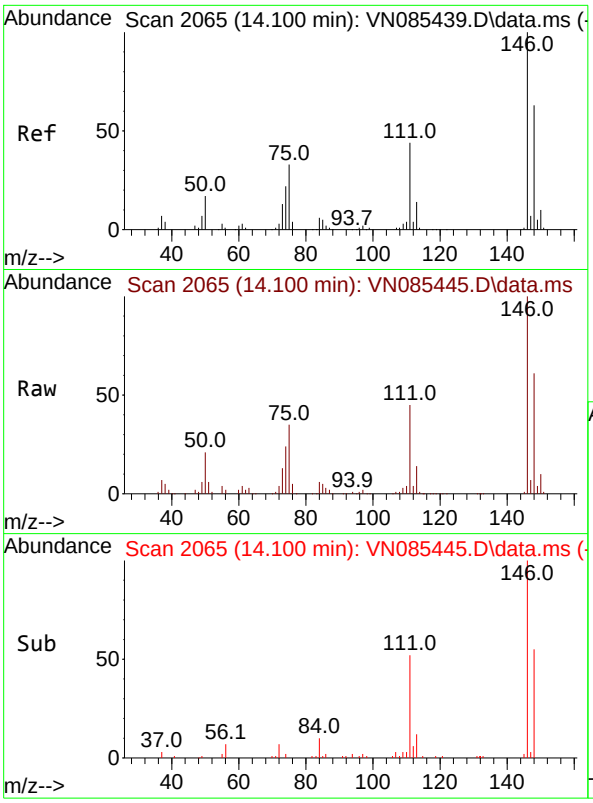


#90
Hexachloroethane
Concen: 45.215 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion:117 Resp: 88538

Ion	Ratio	Lower	Upper
117	100		
201	67.2	33.7	101.0



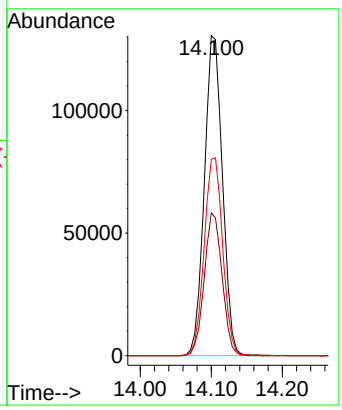


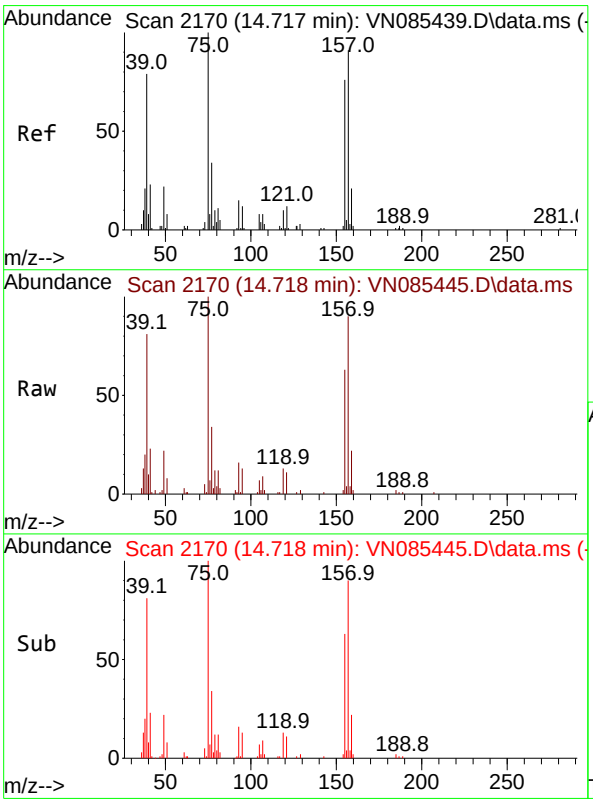
#91
1,2-Dichlorobenzene
Concen: 45.113 ug/l
RT: 14.100 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Tgt Ion:146 Resp: 231646

Ion	Ratio	Lower	Upper
146	100		
111	43.9	21.7	65.1
148	63.1	31.4	94.2

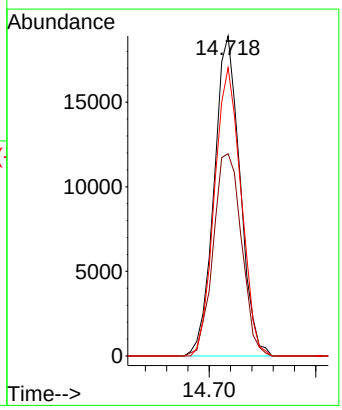


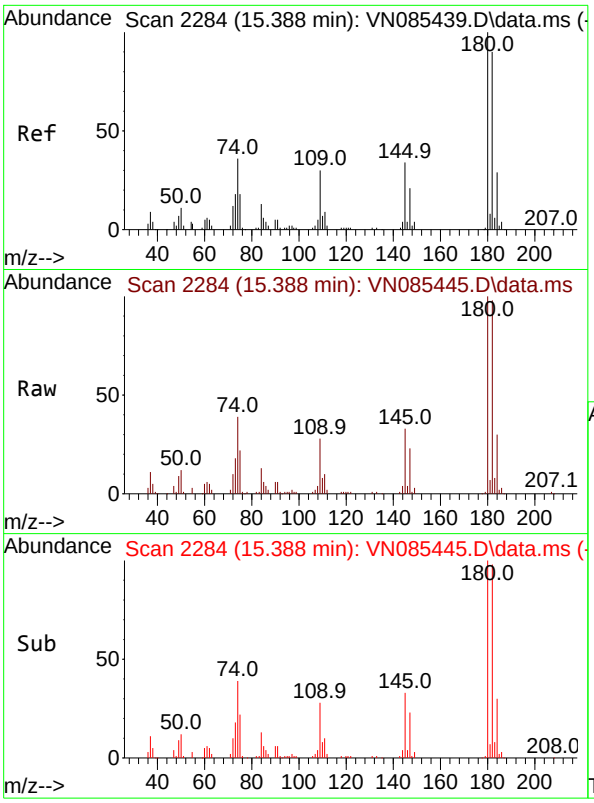


#92
1,2-Dibromo-3-Chloropropane
Concen: 46.221 ug/l
RT: 14.718 min Scan# 2170
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 75 Resp: 31899

Ion	Ratio	Lower	Upper
75	100		
155	69.0	36.4	109.2
157	92.3	45.4	136.1



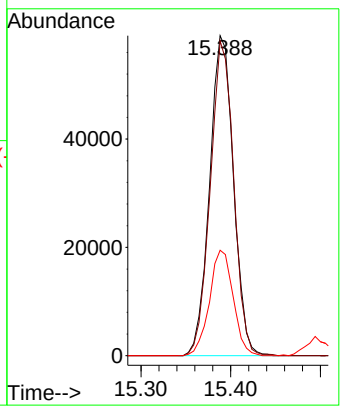


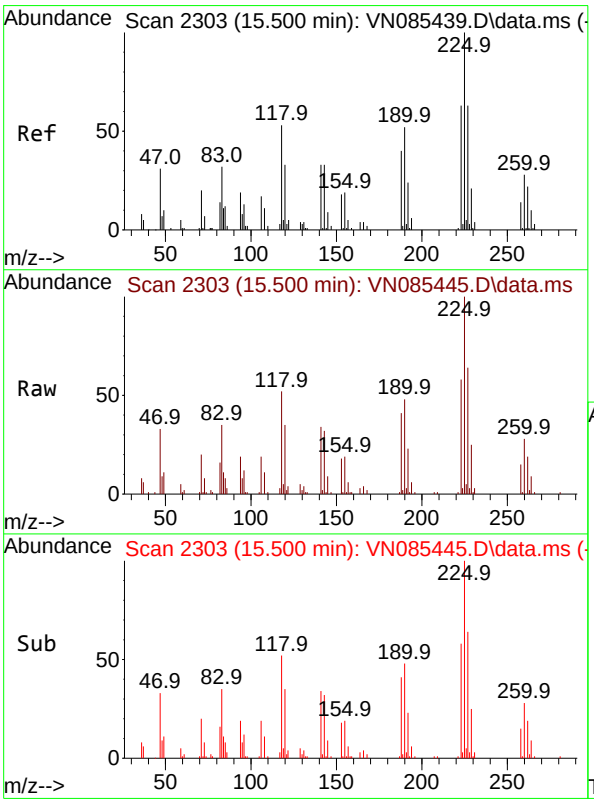
#93
1,2,4-Trichlorobenzene
Concen: 45.739 ug/l
RT: 15.388 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Tgt Ion:180 Resp: 109157

Ion	Ratio	Lower	Upper
180	100		
182	96.3	46.8	140.3
145	32.7	16.0	48.0

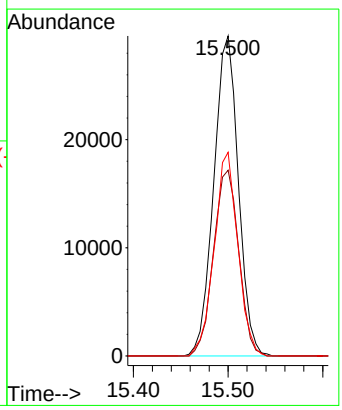


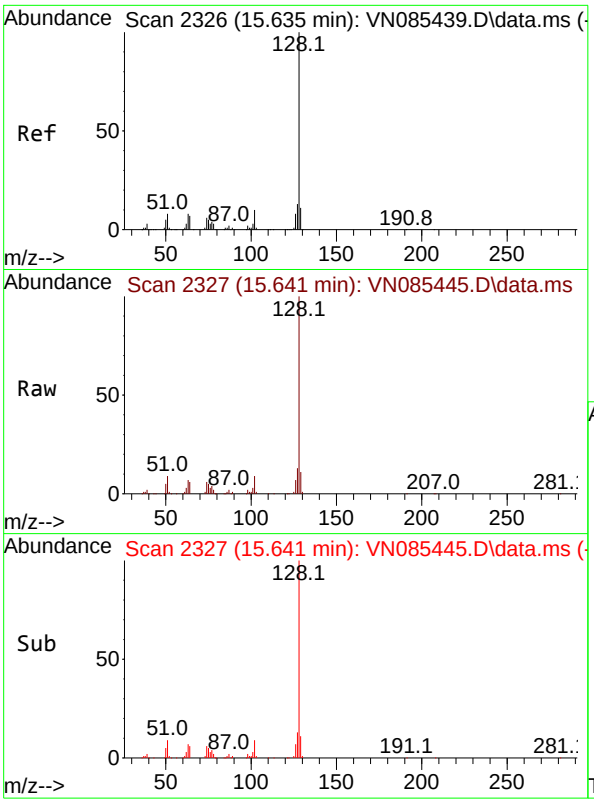


#94
Hexachlorobutadiene
Concen: 42.112 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion:225 Resp: 53358

Ion	Ratio	Lower	Upper
225	100		
223	59.8	30.7	92.1
227	61.2	30.9	92.5



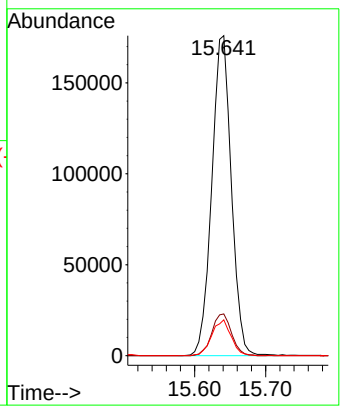


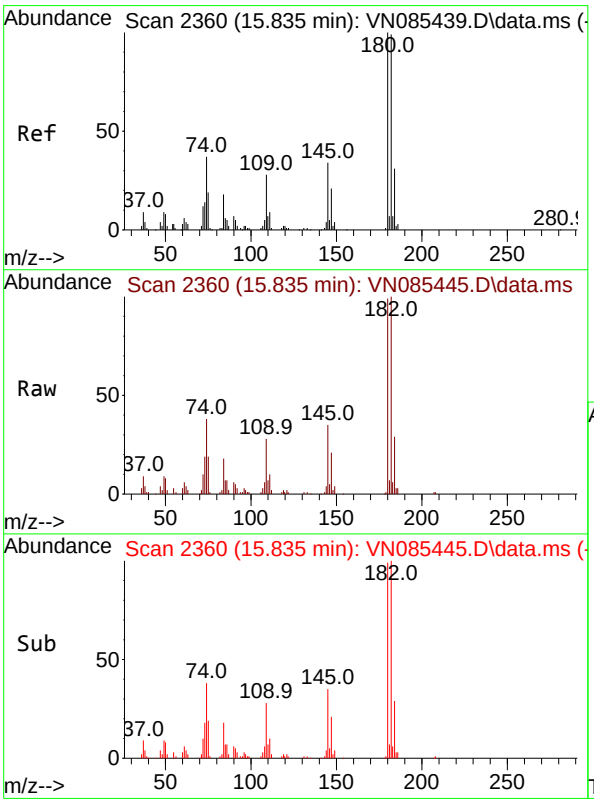
#95
Naphthalene
Concen: 47.116 ug/l
RT: 15.641 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Tgt Ion:128 Resp: 335535

Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.6	16.0
129	11.1	8.8	13.2

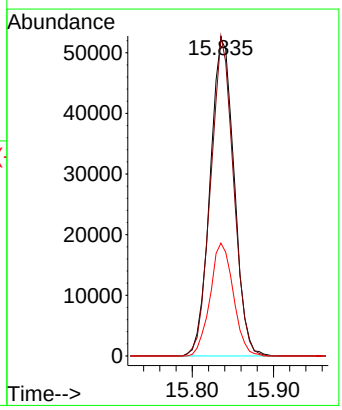




#96
1,2,3-Trichlorobenzene
Concen: 44.551 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion:180 Resp: 107583

Ion	Ratio	Lower	Upper
180	100		
182	95.6	47.4	142.2
145	34.3	16.9	50.7



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085447.D
Acq On : 15 Jan 2025 09:03
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Quant Time: Jan 16 00:51:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.218	168	218273	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	358609	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.859	117	316952	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	158347	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	178793	50.745	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 101.480%			
35) Dibromofluoromethane	8.159	113	132381	53.211	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 106.420%			
50) Toluene-d8	10.559	98	486444	55.032	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 110.060%			
62) 4-Bromofluorobenzene	12.847	95	168340	55.673	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 111.340%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	143408	48.525	ug/l	99
3) Chloromethane	2.359	50	147166	45.992	ug/l	98
4) Vinyl Chloride	2.518	62	151933	47.239	ug/l	99
5) Bromomethane	2.959	94	87556	45.067	ug/l	97
6) Chloroethane	3.124	64	93081	45.648	ug/l	95
7) Trichlorofluoromethane	3.500	101	227366	48.720	ug/l	100
8) Diethyl Ether	3.959	74	73785	45.767	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.371	101	130921	49.808	ug/l	99
10) Methyl Iodide	4.589	142	149033	49.511	ug/l	98
11) Tert butyl alcohol	5.506	59	74825	185.463	ug/l	100
12) 1,1-Dichloroethene	4.336	96	115861	49.459	ug/l	99
13) Acrolein	4.177	56	131470	238.713	ug/l	99
14) Allyl chloride	5.018	41	181372	47.714	ug/l	99
15) Acrylonitrile	5.712	53	284008	221.624	ug/l	99
16) Acetone	4.418	43	250548	220.081	ug/l	100
17) Carbon Disulfide	4.712	76	332259	46.066	ug/l	99
18) Methyl Acetate	5.018	43	152823	44.146	ug/l	99
19) Methyl tert-butyl Ether	5.789	73	383442	50.410	ug/l	98
20) Methylene Chloride	5.271	84	132073	46.863	ug/l	97
21) trans-1,2-Dichloroethene	5.789	96	122694	49.008	ug/l	99
22) Diisopropyl ether	6.665	45	429155	50.865	ug/l	99
23) Vinyl Acetate	6.594	43	1530873	259.270	ug/l	99
24) 1,1-Dichloroethane	6.565	63	250056	48.606	ug/l	99
25) 2-Butanone	7.477	43	367726	219.497	ug/l	98
26) 2,2-Dichloropropane	7.483	77	224423	53.956	ug/l	100
27) cis-1,2-Dichloroethene	7.483	96	147121	49.893	ug/l	100
28) Bromochloromethane	7.806	49	117821	49.226	ug/l	99
29) Tetrahydrofuran	7.830	42	245371	231.013	ug/l	99
30) Chloroform	7.959	83	253854	47.743	ug/l	99
31) Cyclohexane	8.253	56	205522	45.962	ug/l	96
32) 1,1,1-Trichloroethane	8.165	97	225987	48.453	ug/l	99
36) 1,1-Dichloropropene	8.365	75	180278	51.631	ug/l	99
37) Ethyl Acetate	7.553	43	157899	44.802	ug/l	97
38) Carbon Tetrachloride	8.359	117	201730	50.466	ug/l	99
39) Methylcyclohexane	9.594	83	189425	57.732	ug/l	98
40) Benzene	8.600	78	539436	51.417	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085447.D
Acq On : 15 Jan 2025 09:03
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Quant Time: Jan 16 00:51:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.771	41	90556	49.387	ug/l		98
42) 1,2-Dichloroethane	8.665	62	197097	49.881	ug/l		99
43) Isopropyl Acetate	8.682	43	266284	47.153	ug/l		99
44) Trichloroethene	9.347	130	123817	50.700	ug/l		97
45) 1,2-Dichloropropane	9.612	63	135244	50.468	ug/l		96
46) Dibromomethane	9.706	93	94501	48.873	ug/l		98
47) Bromodichloromethane	9.882	83	203552	51.671	ug/l		99
48) Methyl methacrylate	9.677	41	129471	50.945	ug/l		98
49) 1,4-Dioxane	9.688	88	37393	873.742	ug/l		98
51) 4-Methyl-2-Pentanone	10.441	43	789380	240.885	ug/l		99
52) Toluene	10.624	92	328434	54.029	ug/l		100
53) t-1,3-Dichloropropene	10.829	75	198974	53.447	ug/l		95
54) cis-1,3-Dichloropropene	10.306	75	213072	53.582	ug/l		98
55) 1,1,2-Trichloroethane	11.012	97	120803	50.215	ug/l		99
56) Ethyl methacrylate	10.871	69	184561	45.714	ug/l		99
57) 1,3-Dichloropropane	11.159	76	211921	50.662	ug/l		98
58) 2-Chloroethyl Vinyl ether	10.153	63	416723	272.966	ug/l		100
59) 2-Hexanone	11.188	43	558711	242.307	ug/l		100
60) Dibromochloromethane	11.353	129	146358	50.392	ug/l		99
61) 1,2-Dibromoethane	11.465	107	117431	49.039	ug/l		99
64) Tetrachloroethene	11.100	164	112592	52.107	ug/l		96
65) Chlorobenzene	11.888	112	348954	50.257	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.953	131	126127	49.494	ug/l		99
67) Ethyl Benzene	11.959	91	623373	55.122	ug/l		98
68) m/p-Xylenes	12.065	106	478857	114.570	ug/l		98
69) o-Xylene	12.394	106	221609	55.481	ug/l		98
70) Styrene	12.406	104	382963	57.933	ug/l		100
71) Bromoform	12.570	173	95715	52.493	ug/l	#	97
73) Isopropylbenzene	12.688	105	579887	54.261	ug/l		100
74) N-amyl acetate	12.488	43	229808	47.841	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.935	83	165720	43.898	ug/l		99
76) 1,2,3-Trichloropropane	12.988	75	218540	67.902	ug/l		50
77) Bromobenzene	12.976	156	137136	49.115	ug/l		96
78) n-propylbenzene	13.029	91	703936	55.640	ug/l		100
79) 2-Chlorotoluene	13.123	91	423036	51.665	ug/l		99
80) 1,3,5-Trimethylbenzene	13.170	105	492256	55.763	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.729	75	58114	48.853	ug/l		92
82) 4-Chlorotoluene	13.217	91	425288	52.164	ug/l		100
83) tert-Butylbenzene	13.435	119	405351	54.680	ug/l		99
84) 1,2,4-Trimethylbenzene	13.476	105	498787	56.692	ug/l		97
85) sec-Butylbenzene	13.612	105	580478	56.497	ug/l		99
86) p-Isopropyltoluene	13.723	119	492423	52.852	ug/l		99
87) 1,3-Dichlorobenzene	13.729	146	257806	50.137	ug/l		99
88) 1,4-Dichlorobenzene	13.806	146	256221	48.073	ug/l		99
89) n-Butylbenzene	14.053	91	424966	57.654	ug/l		98
90) Hexachloroethane	14.329	117	95205	48.675	ug/l		99
91) 1,2-Dichlorobenzene	14.100	146	242707	47.320	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	29578	42.906	ug/l		98
93) 1,2,4-Trichlorobenzene	15.388	180	120596	50.589	ug/l		98
94) Hexachlorobutadiene	15.494	225	60079	47.470	ug/l		97
95) Naphthalene	15.635	128	327305	46.012	ug/l		100
96) 1,2,3-Trichlorobenzene	15.835	180	113937	47.236	ug/l		99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085447.D
Acq On : 15 Jan 2025 09:03
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Quant Time: Jan 16 00:51:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

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

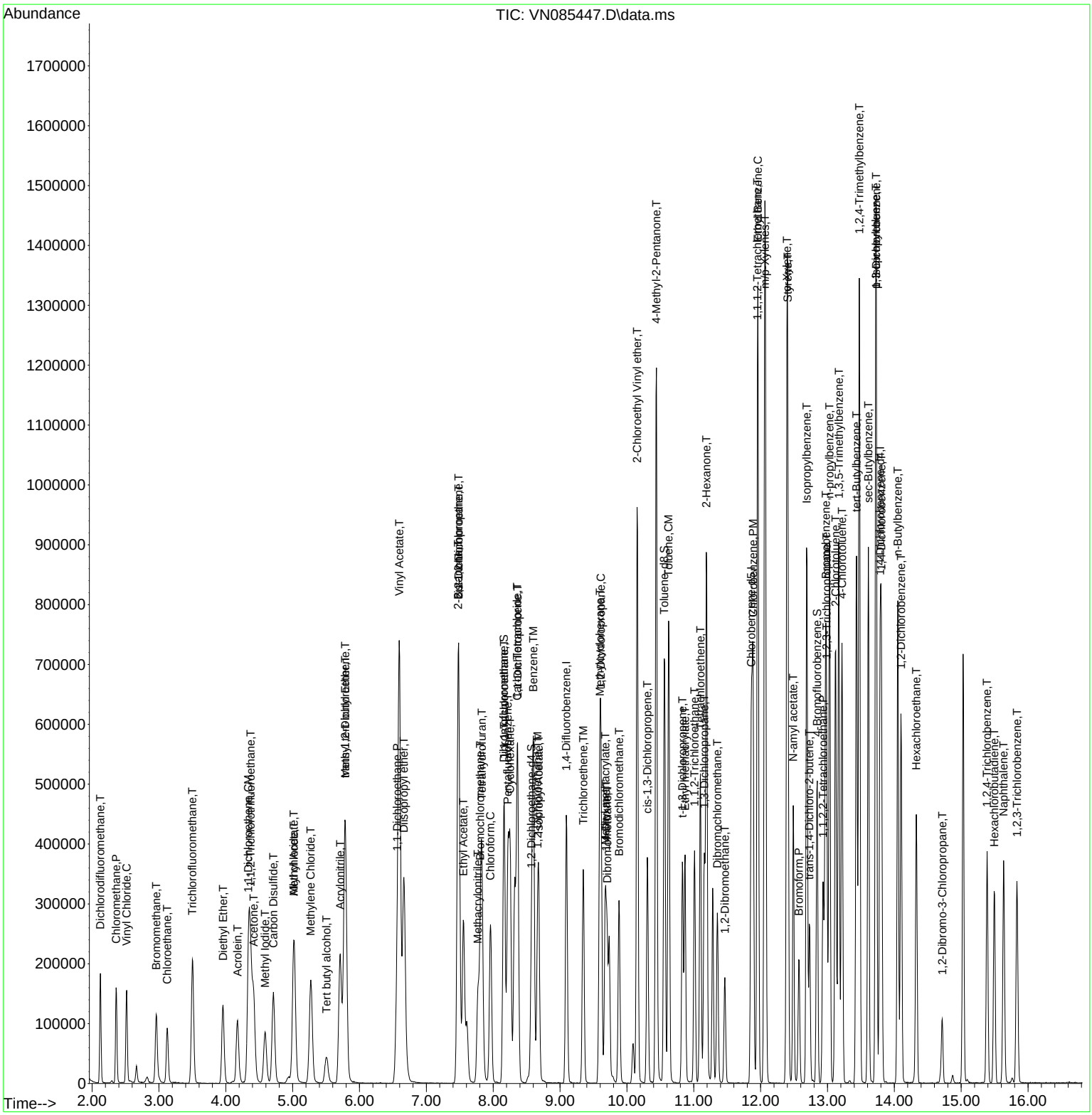
(#) = qualifier out of range (m) = manual integration (+) = signals summed

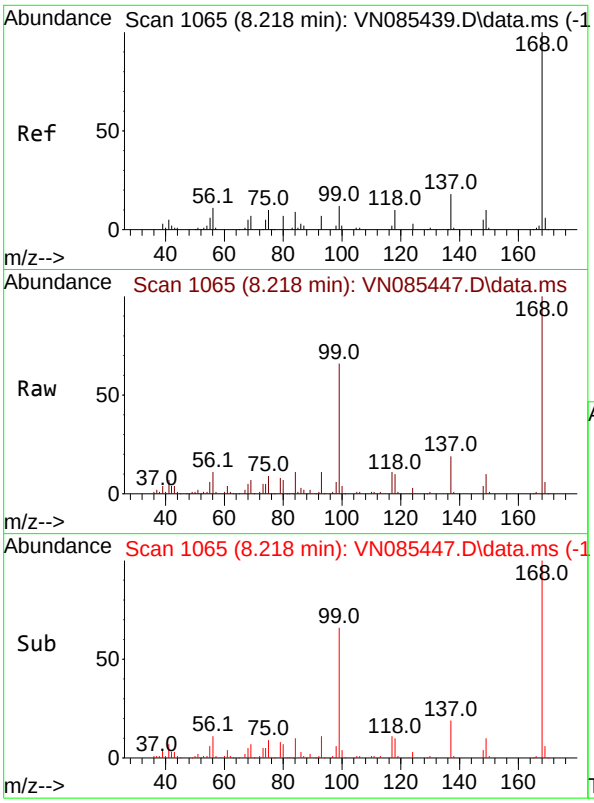
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085447.D
Acq On : 15 Jan 2025 09:03
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Quant Time: Jan 16 00:51:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration



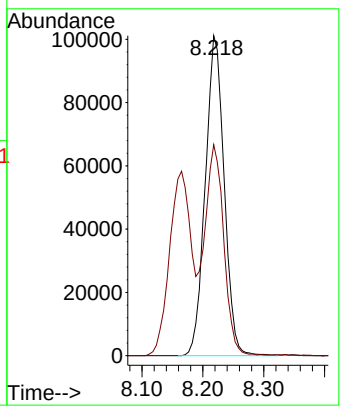


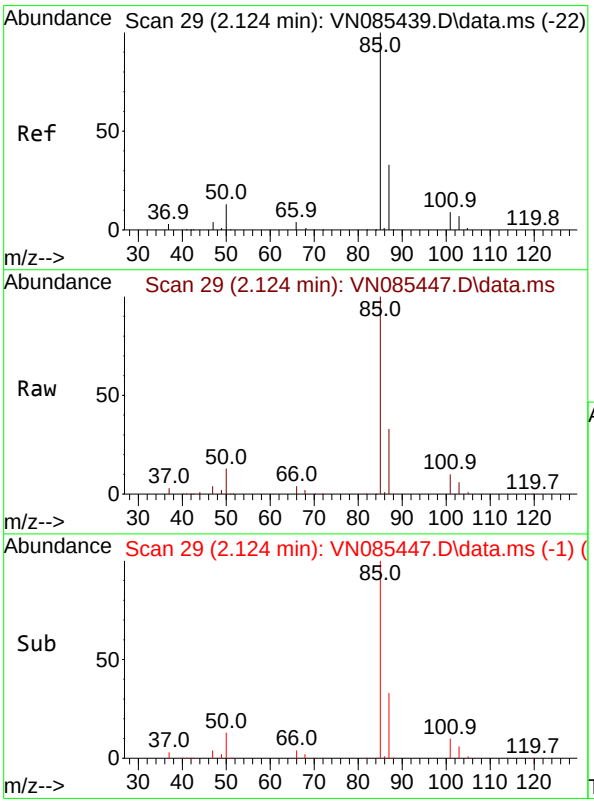
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:168 Resp: 218273

Ion	Ratio	Lower	Upper
168	100		
99	65.7	53.6	80.4

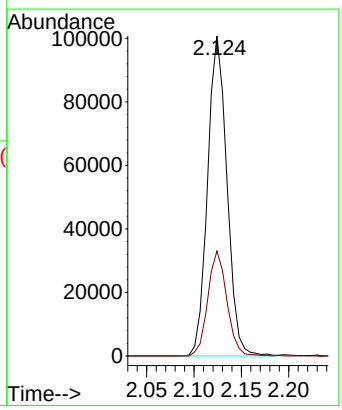


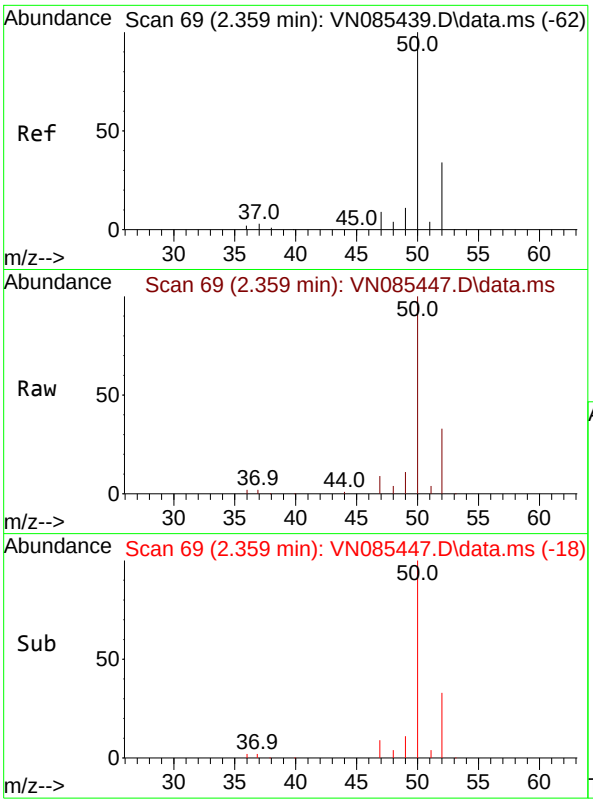


#2
Dichlorodifluoromethane
Concen: 48.525 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 85 Resp: 143408

Ion	Ratio	Lower	Upper
85	100		
87	32.8	16.7	50.1



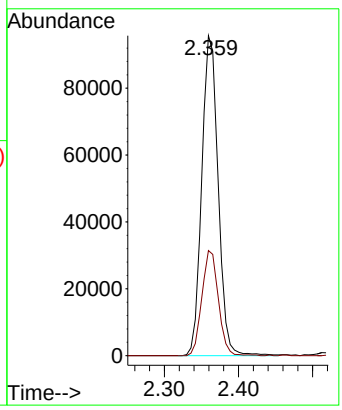


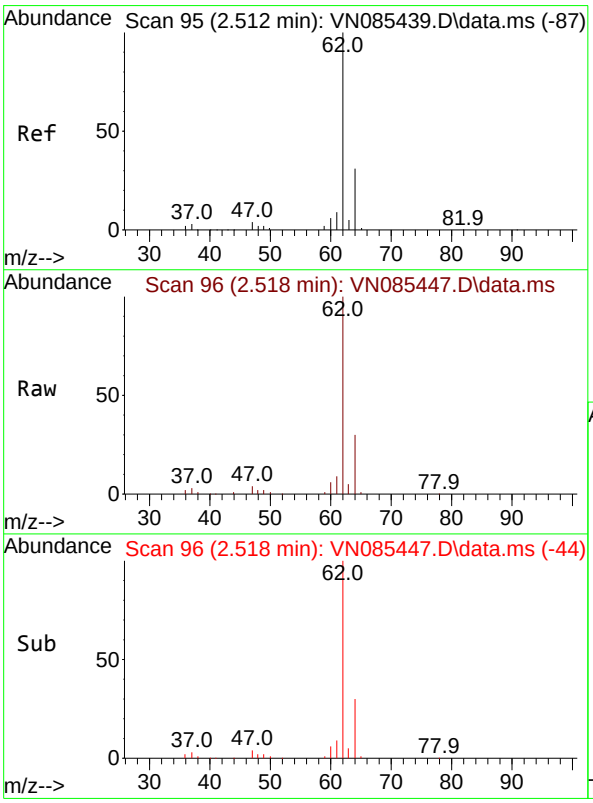
#3
Chloromethane
Concen: 45.992 ug/l
RT: 2.359 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 50 Resp: 147166

Ion	Ratio	Lower	Upper
50	100		
52	32.9	27.0	40.6

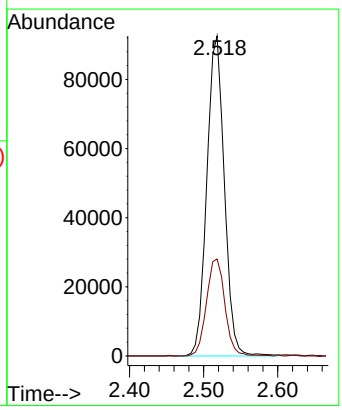


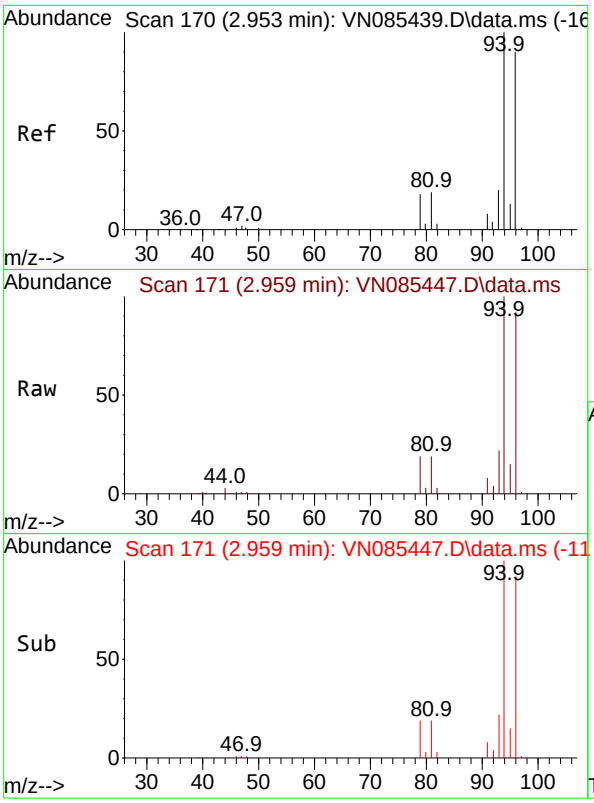


#4
Vinyl Chloride
Concen: 47.239 ug/l
RT: 2.518 min Scan# 96
Delta R.T. 0.006 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 62 Resp: 151933

Ion	Ratio	Lower	Upper
62	100		
64	30.3	24.8	37.2



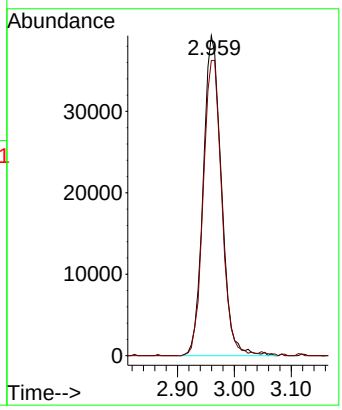


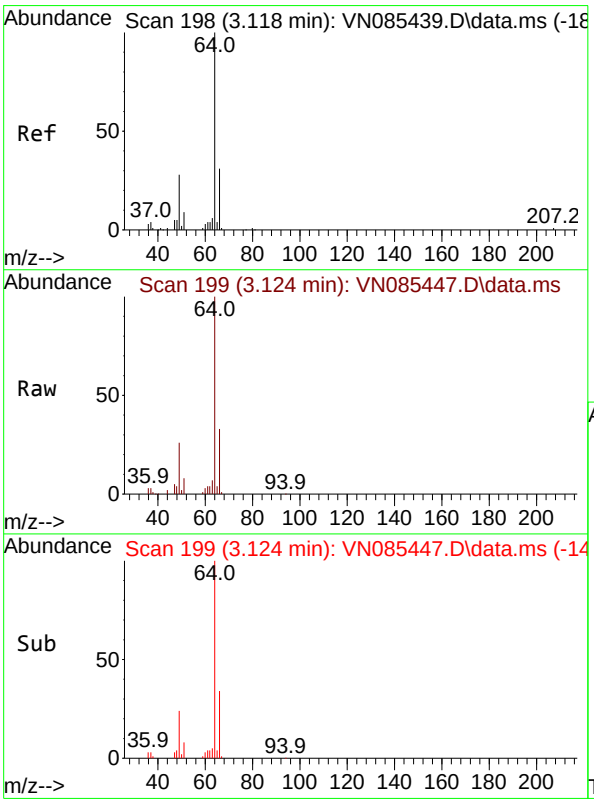
#5
Bromomethane
Concen: 45.067 ug/l
RT: 2.959 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 94 Resp: 87556

Ion	Ratio	Lower	Upper
94	100		
96	92.2	71.8	107.6

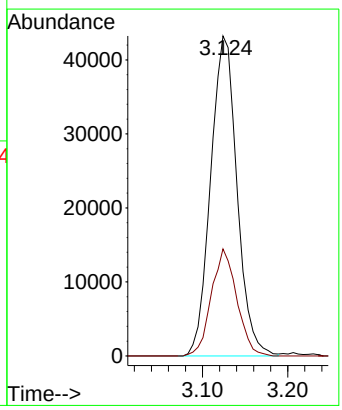


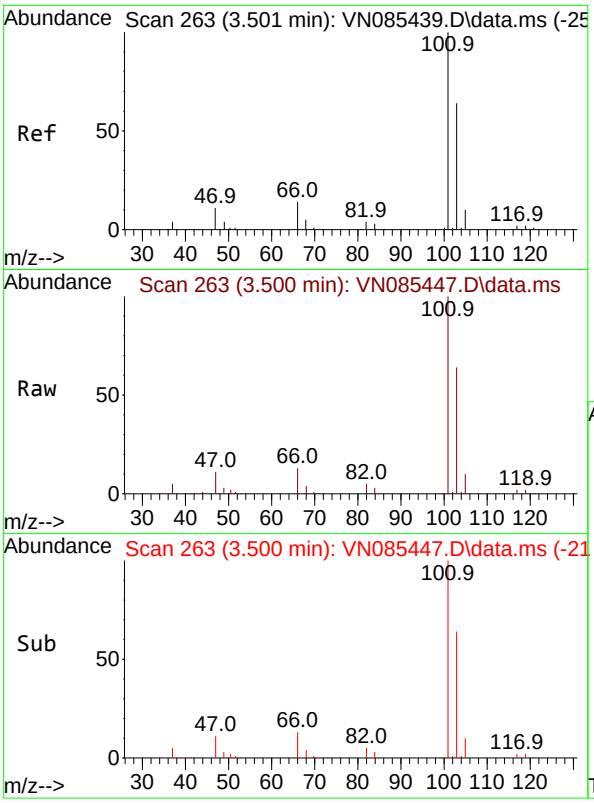


#6
Chloroethane
Concen: 45.648 ug/l
RT: 3.124 min Scan# 199
Delta R.T. 0.006 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 64 Resp: 93081

Ion	Ratio	Lower	Upper
64	100		
66	33.5	24.6	36.8



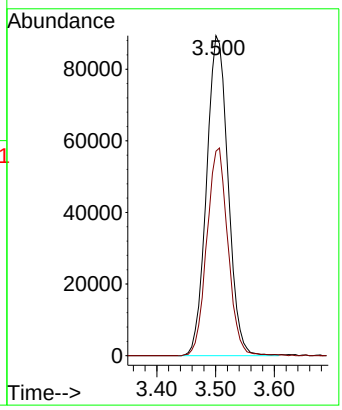


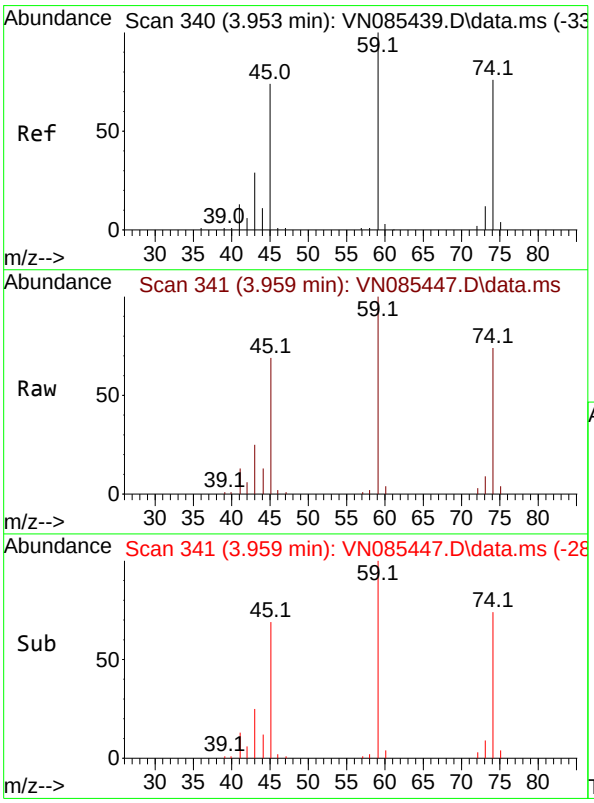
#7
Trichlorofluoromethane
Concen: 48.720 ug/l
RT: 3.500 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 227366

Ion	Ratio	Lower	Upper
101	100		
103	63.9	51.4	77.2

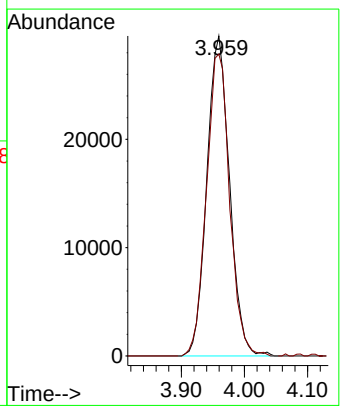


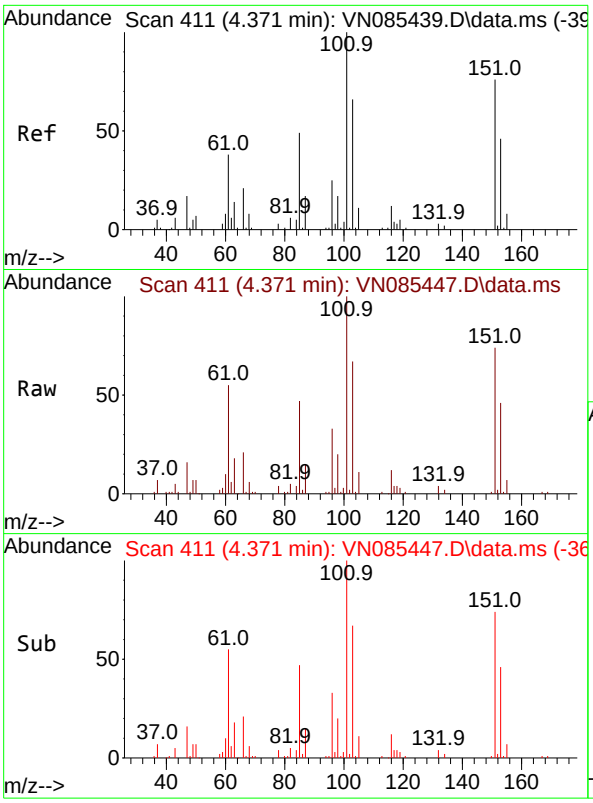


#8
Diethyl Ether
Concen: 45.767 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.006 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 74 Resp: 73785

Ion	Ratio	Lower	Upper
74	100		
45	96.7	49.7	149.1



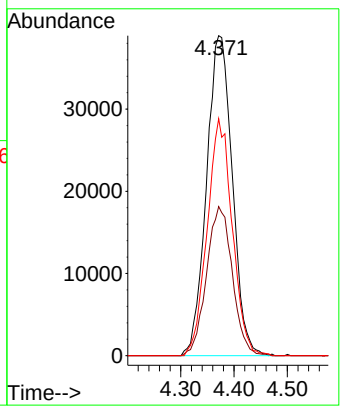


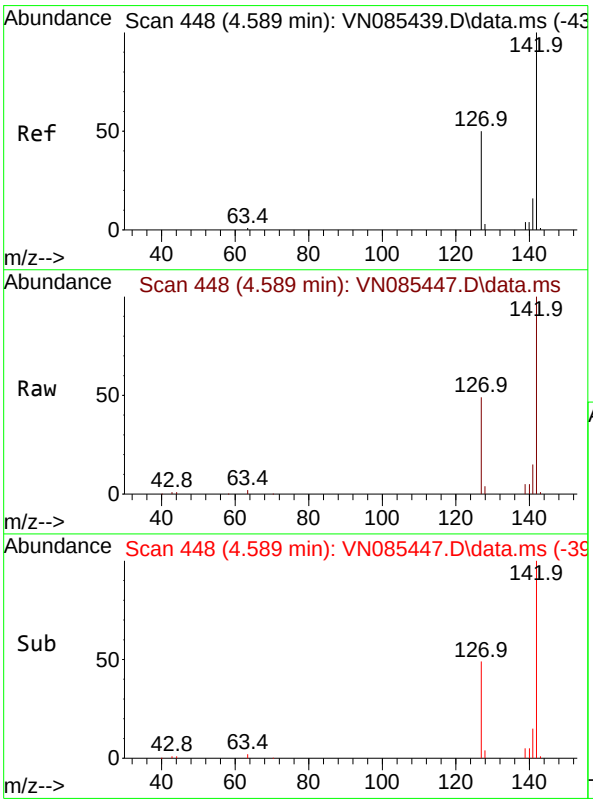
#9
1,1,2-Trichlorotrifluoroethane
Concen: 49.808 ug/l
RT: 4.371 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 130921

Ion	Ratio	Lower	Upper
101	100		
85	46.6	37.8	56.8
151	72.0	58.8	88.2

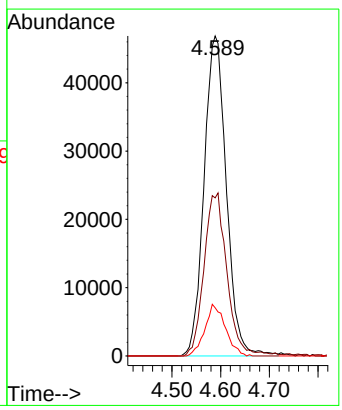


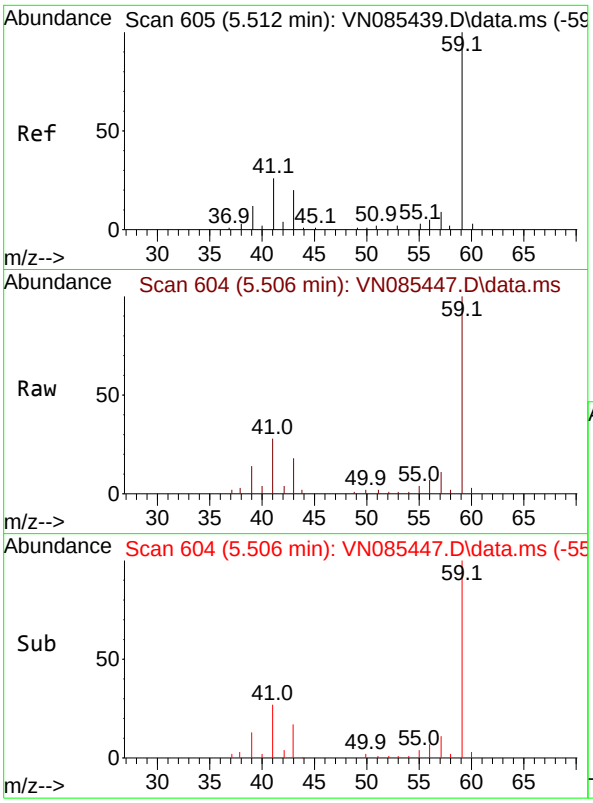


#10
Methyl Iodide
Concen: 49.511 ug/l
RT: 4.589 min Scan# 448
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion:142 Resp: 149033

Ion	Ratio	Lower	Upper
142	100		
127	49.4	40.3	60.5
141	15.0	12.8	19.2



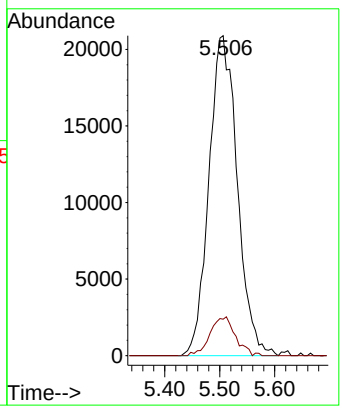


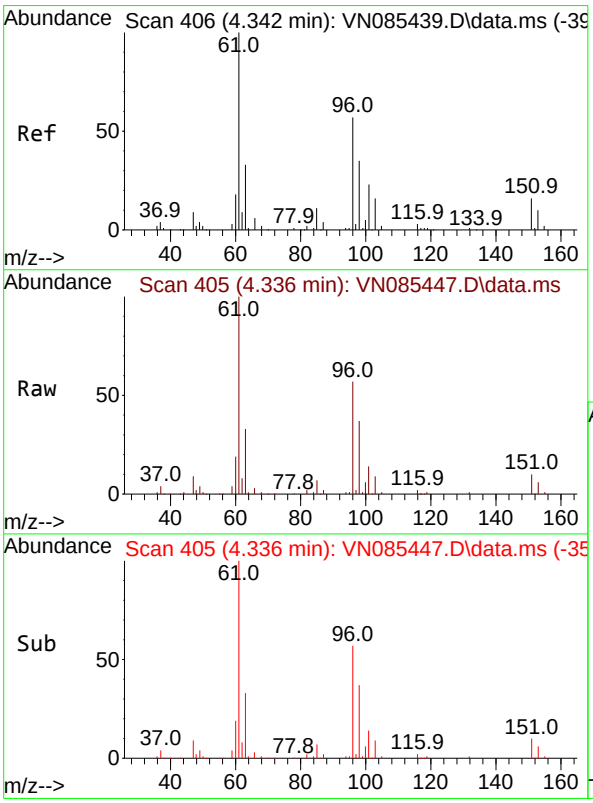
#11
Tert butyl alcohol
Concen: 185.463 ug/l
RT: 5.506 min Scan# 6
Delta R.T. -0.006 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 59 Resp: 74825

Ion	Ratio	Lower	Upper
59	100		
57	10.9	8.6	13.0

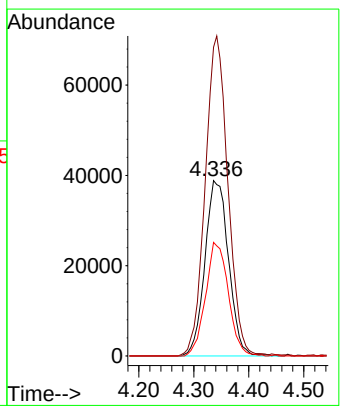


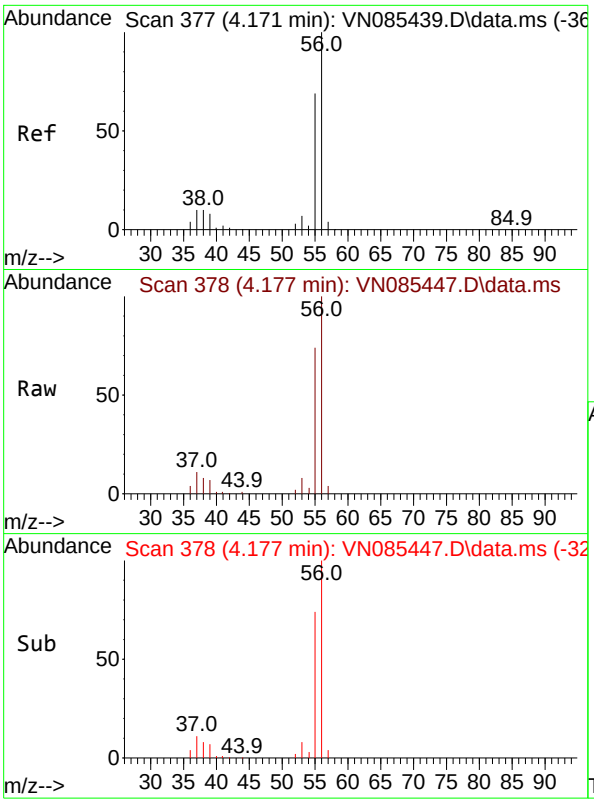


#12
1,1-Dichloroethene
Concen: 49.459 ug/l
RT: 4.336 min Scan# 405
Delta R.T. -0.006 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 96 Resp: 115861

Ion	Ratio	Lower	Upper
96	100		
61	176.0	141.0	211.4
98	64.8	49.0	73.6



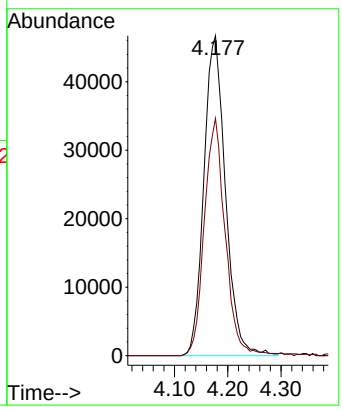


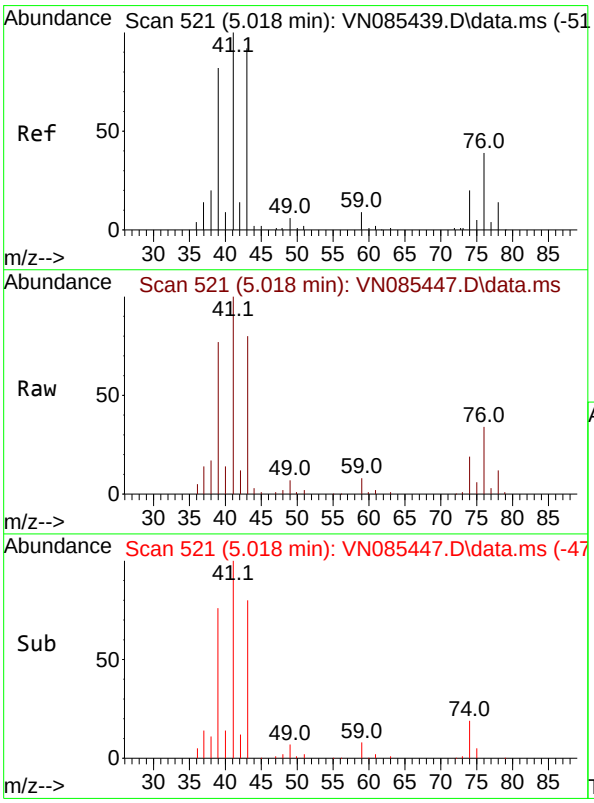
#13
Acrolein
Concen: 238.713 ug/l
RT: 4.177 min Scan# 3
Delta R.T. 0.006 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 56 Resp: 131470

Ion	Ratio	Lower	Upper
56	100		
55	71.5	56.3	84.5

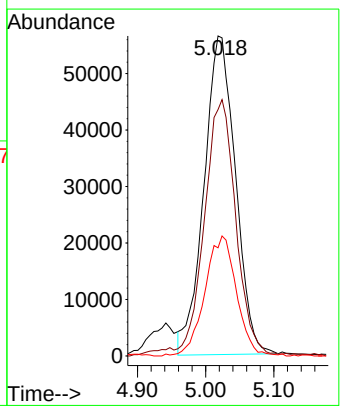


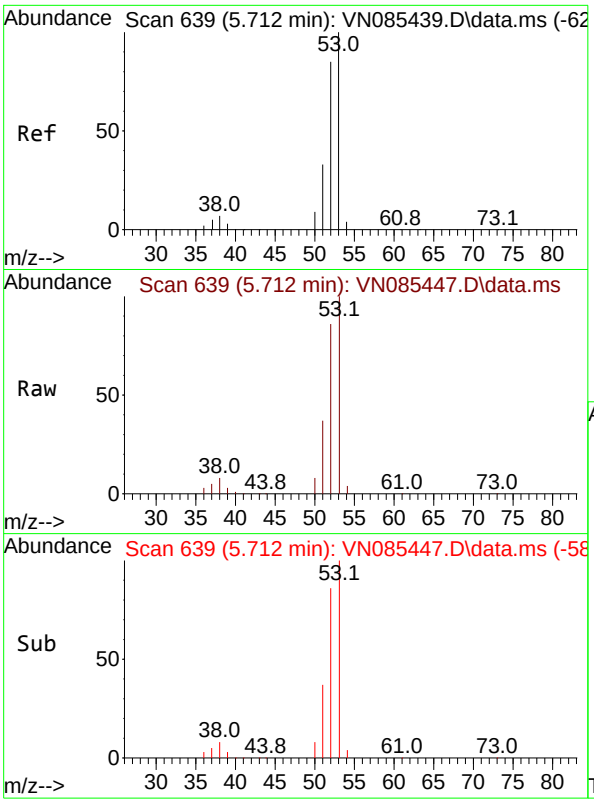


#14
Allyl chloride
Concen: 47.714 ug/l
RT: 5.018 min Scan# 521
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 41 Resp: 181372

Ion	Ratio	Lower	Upper
41	100		
39	81.7	64.4	96.6
76	37.8	30.5	45.7



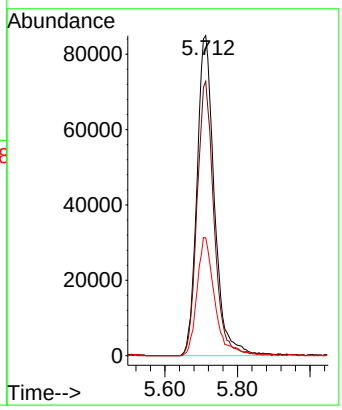


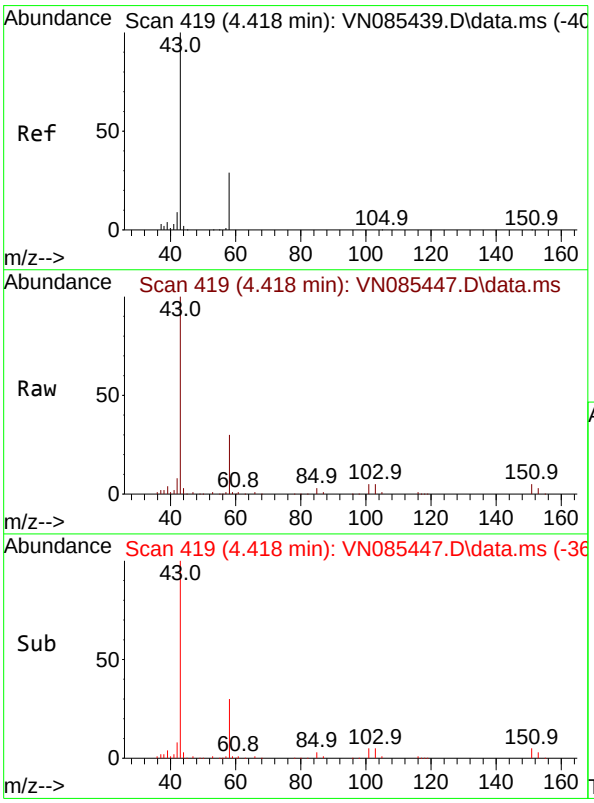
#15
Acrylonitrile
Concen: 221.624 ug/l
RT: 5.712 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 53 Resp: 284008

Ion	Ratio	Lower	Upper
53	100		
52	82.6	65.5	98.3
51	37.8	29.8	44.8

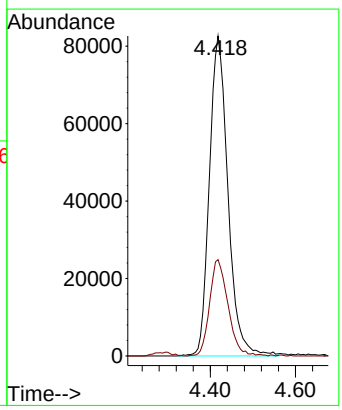


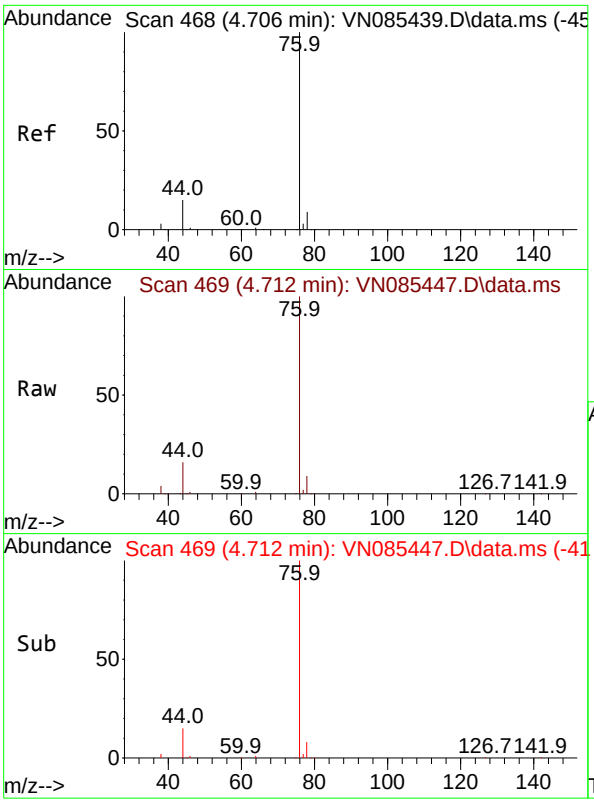


#16
Acetone
Concen: 220.081 ug/l
RT: 4.418 min Scan# 419
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 43 Resp: 250548

Ion	Ratio	Lower	Upper
43	100		
58	29.9	23.8	35.6



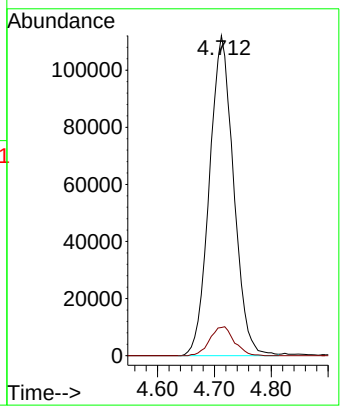


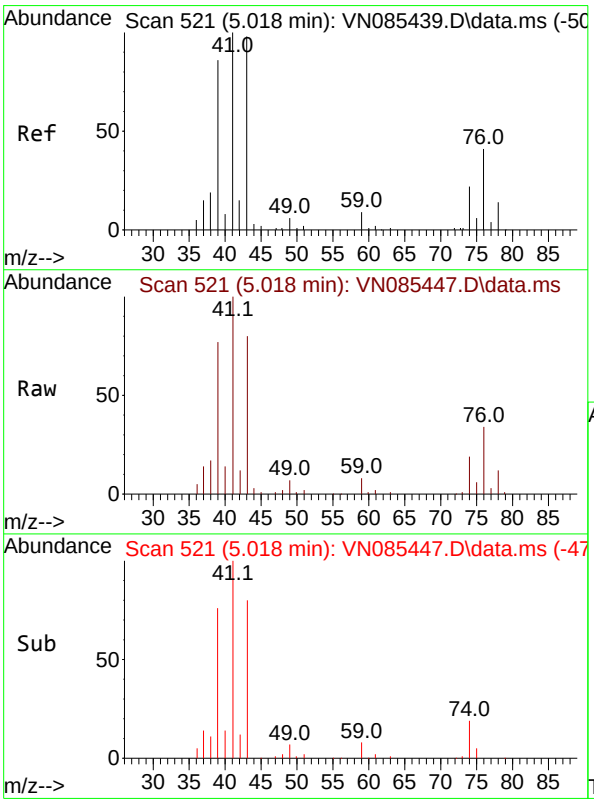
#17
Carbon Disulfide
Concen: 46.066 ug/l
RT: 4.712 min Scan# 4
Delta R.T. 0.006 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 332259

Ion	Ratio	Lower	Upper
76	100		
78	8.8	6.9	10.3

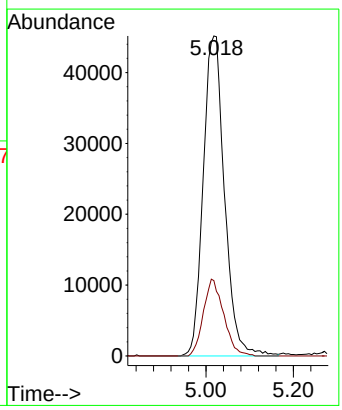


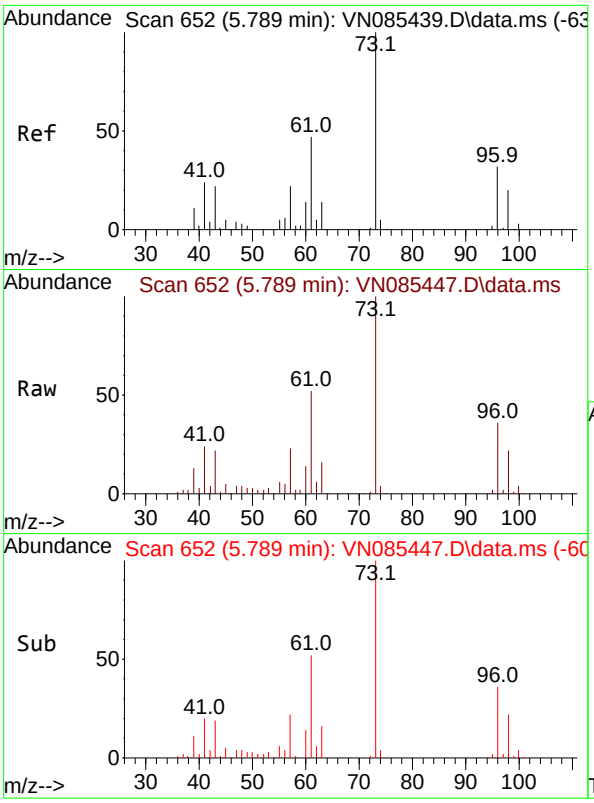


#18
Methyl Acetate
Concen: 44.146 ug/l
RT: 5.018 min Scan# 521
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 43 Resp: 152823

Ion	Ratio	Lower	Upper
43	100		
74	22.9	18.6	28.0



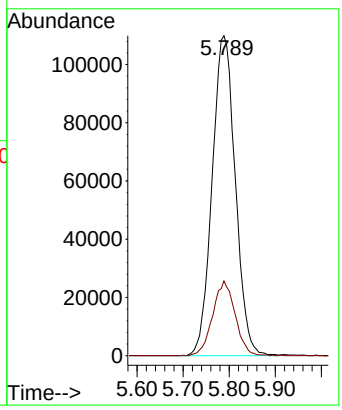


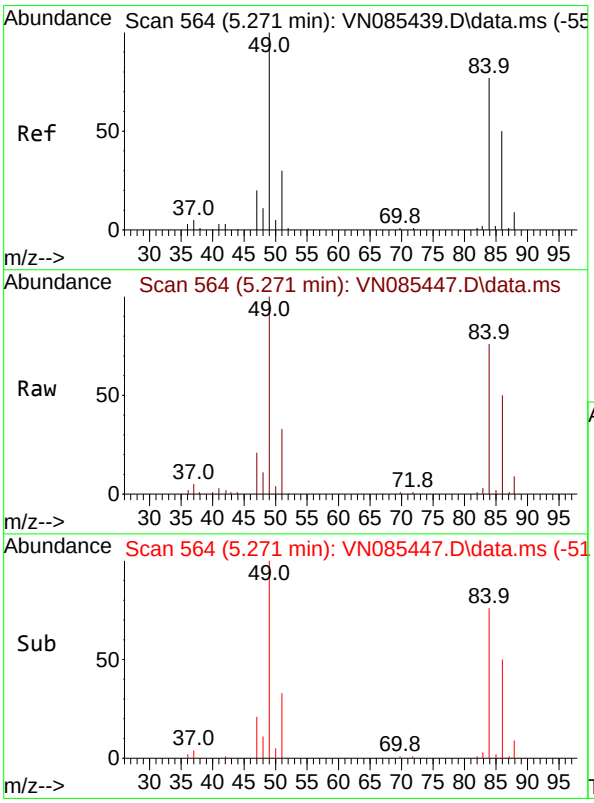
#19
Methyl tert-butyl Ether
Concen: 50.410 ug/l
RT: 5.789 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 73 Resp: 383442

Ion	Ratio	Lower	Upper
73	100		
57	23.4	17.8	26.8

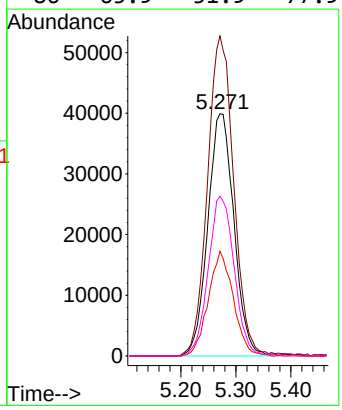


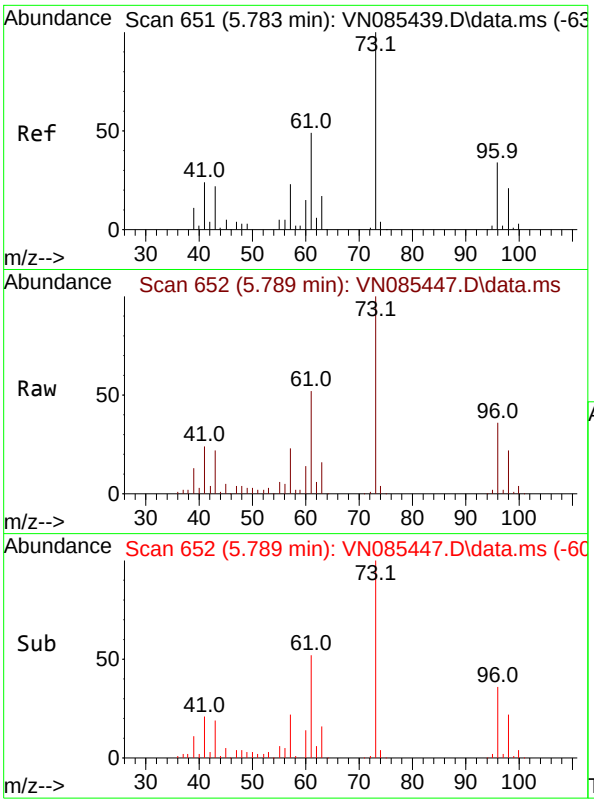


#20
Methylene Chloride
Concen: 46.863 ug/l
RT: 5.271 min Scan# 564
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 84 Resp: 132073

Ion	Ratio	Lower	Upper
84	100		
49	132.1	104.1	156.1
51	43.2	31.0	46.4
86	65.9	51.9	77.9



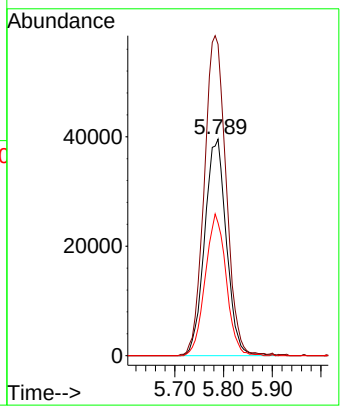


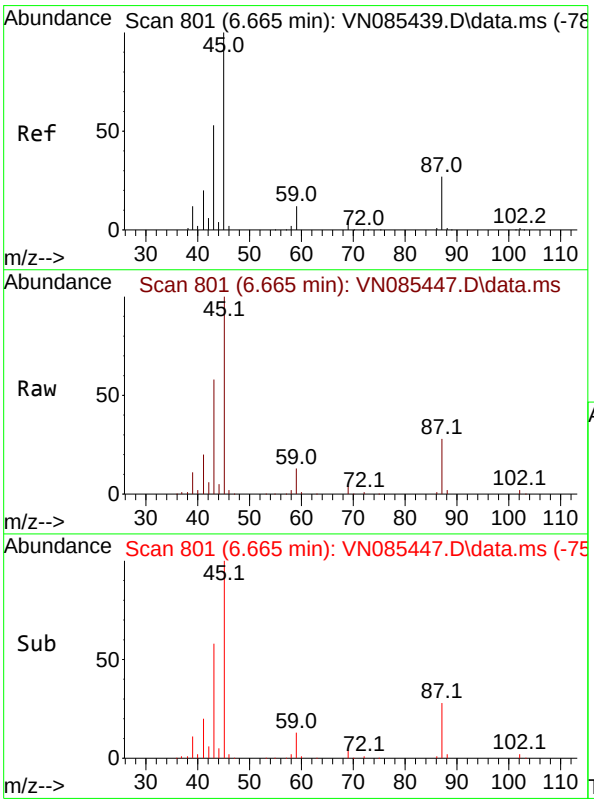
#21
trans-1,2-Dichloroethene
Concen: 49.008 ug/l
RT: 5.789 min Scan# 6
Delta R.T. 0.006 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 96 Resp: 122694

Ion	Ratio	Lower	Upper
96	100		
61	143.8	115.7	173.5
98	61.4	49.8	74.8

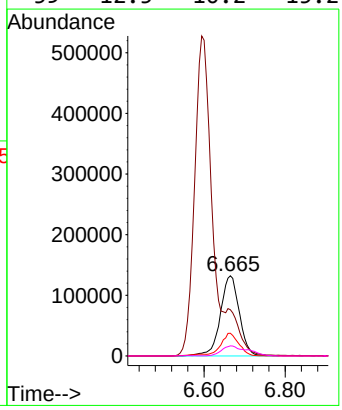


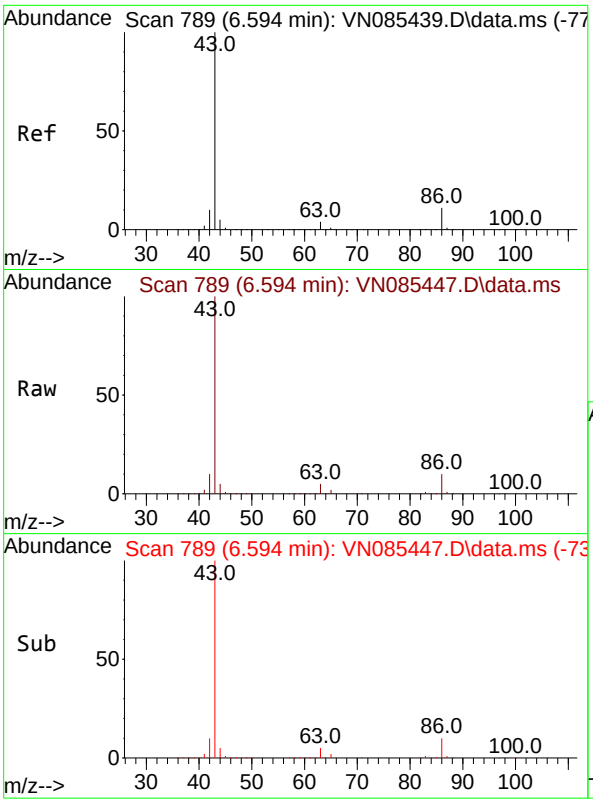


#22
Diisopropyl ether
Concen: 50.865 ug/l
RT: 6.665 min Scan# 801
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 45 Resp: 429155

Ion	Ratio	Lower	Upper
45	100		
43	56.6	45.0	67.6
87	28.3	21.8	32.8
59	12.5	10.2	15.2



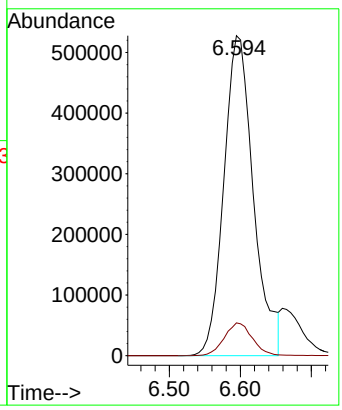


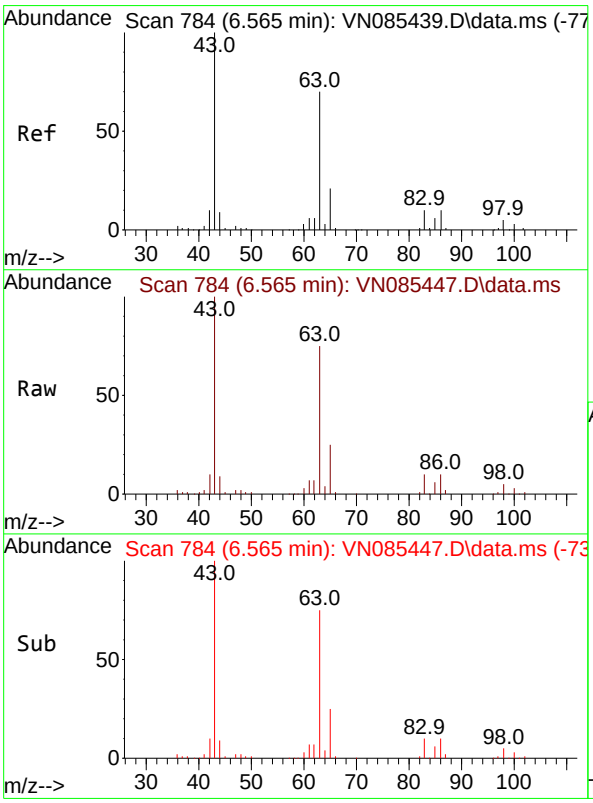
#23
Vinyl Acetate
Concen: 259.270 ug/l
RT: 6.594 min Scan# 7
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 1530873

Ion	Ratio	Lower	Upper
43	100		
86	10.2	8.4	12.6

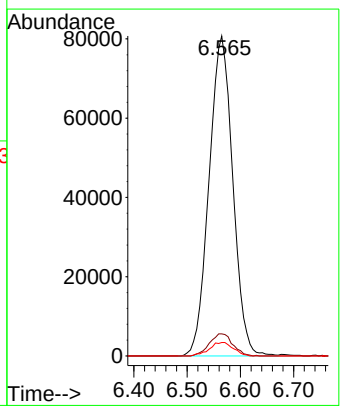


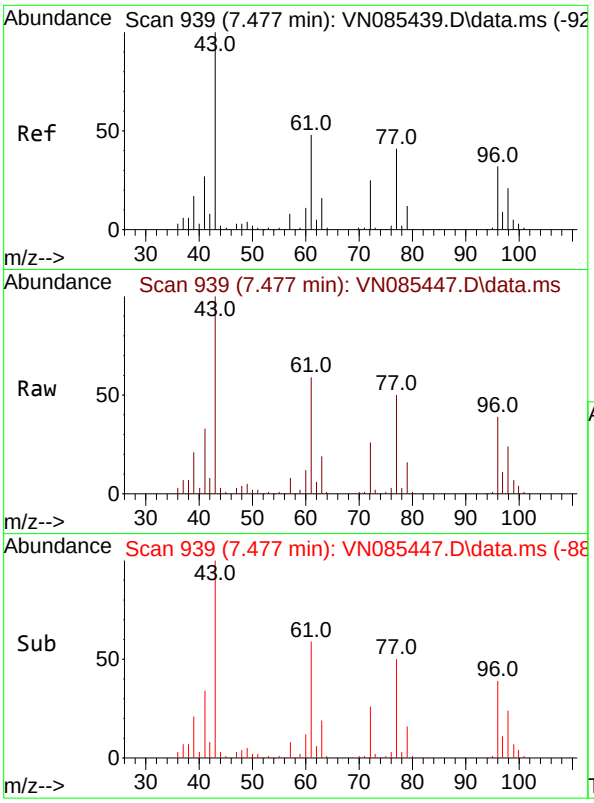


#24
1,1-Dichloroethane
Concen: 48.606 ug/l
RT: 6.565 min Scan# 784
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 63 Resp: 250056

Ion	Ratio	Lower	Upper
63	100		
98	6.9	3.3	9.8
100	4.2	2.0	6.0



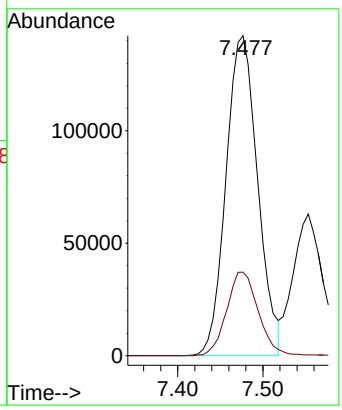


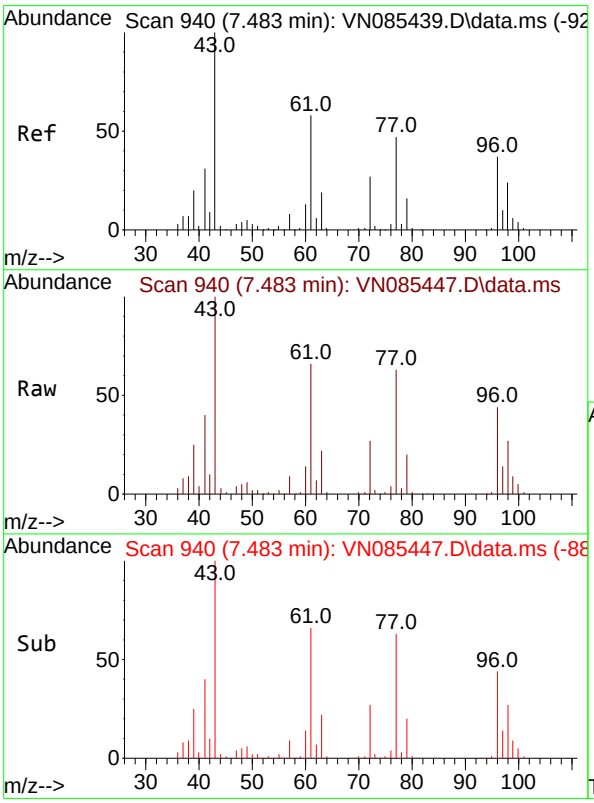
#25
2-Butanone
Concen: 219.497 ug/l
RT: 7.477 min Scan# 9
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 367726

Ion	Ratio	Lower	Upper
43	100		
72	26.1	20.2	30.4

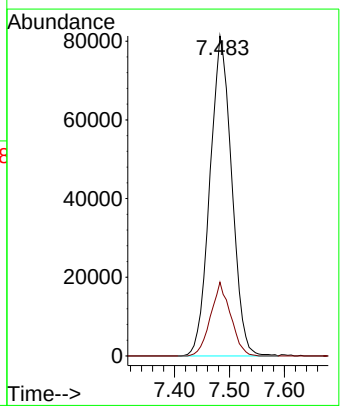


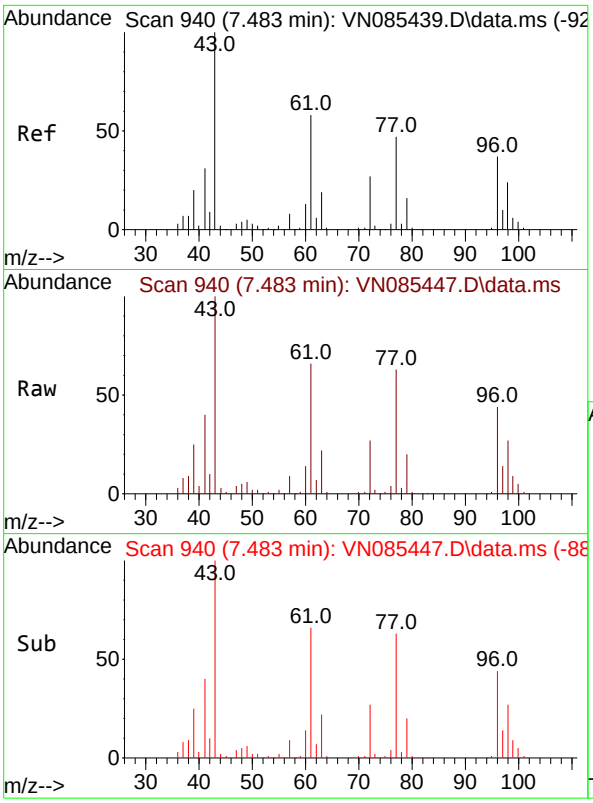


#26
2,2-Dichloropropane
Concen: 53.956 ug/l
RT: 7.483 min Scan# 940
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 77 Resp: 224423

Ion	Ratio	Lower	Upper
77	100		
97	21.2	10.7	32.1



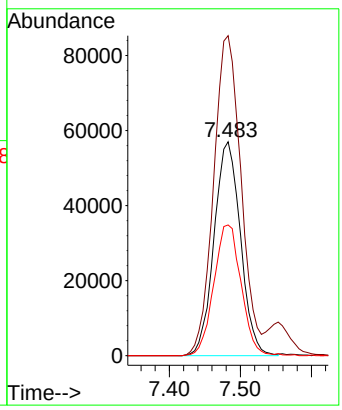


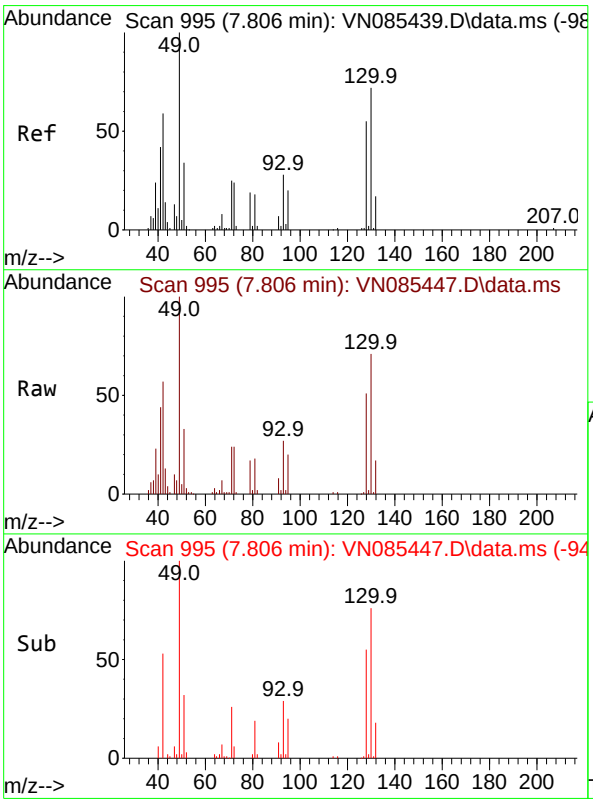
#27
cis-1,2-Dichloroethene
Concen: 49.893 ug/l
RT: 7.483 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 96 Resp: 147121

Ion	Ratio	Lower	Upper
96	100		
61	155.3	0.0	311.8
98	63.3	0.0	126.0

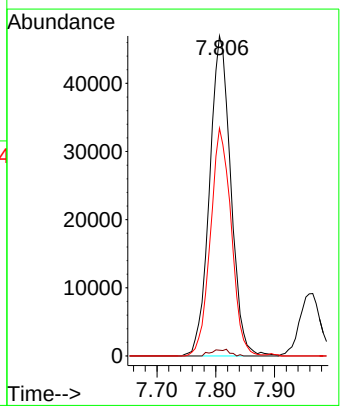


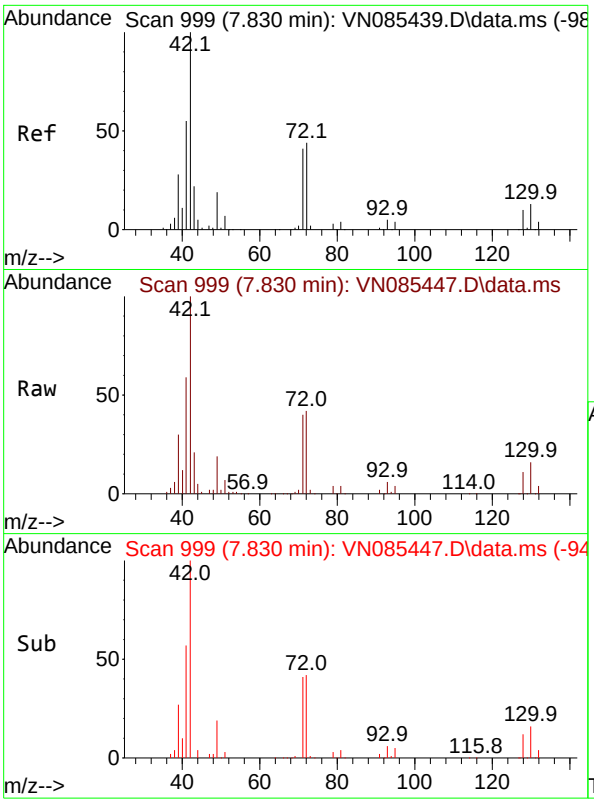


#28
Bromochloromethane
Concen: 49.226 ug/l
RT: 7.806 min Scan# 995
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 49 Resp: 117821

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	4.4
130	69.6	55.0	82.4



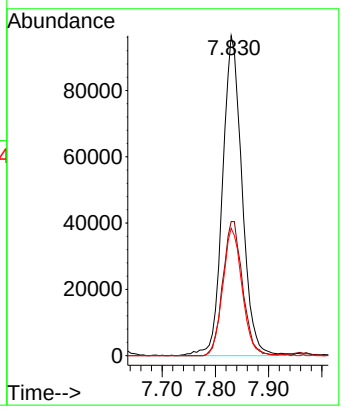


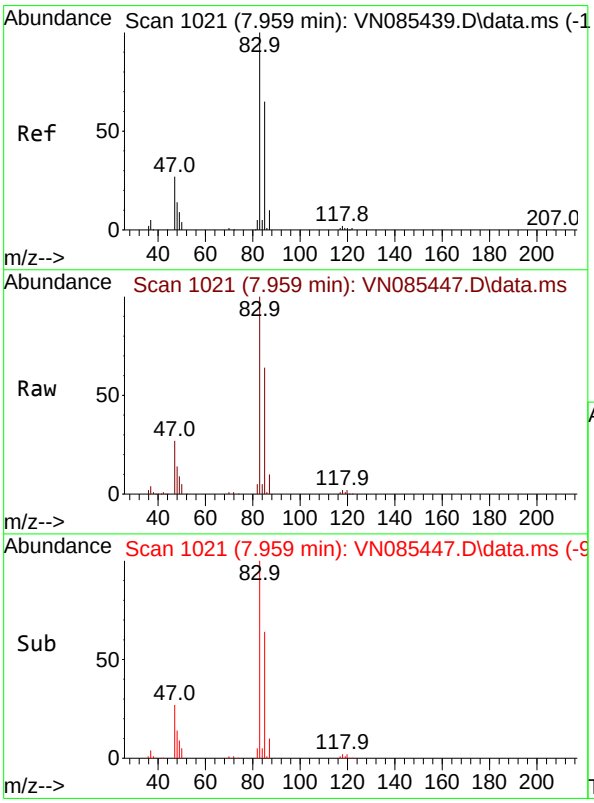
#29
Tetrahydrofuran
Concen: 231.013 ug/l
RT: 7.830 min Scan# 9
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 42 Resp: 245371

Ion	Ratio	Lower	Upper
42	100		
72	42.6	34.2	51.2
71	39.6	32.5	48.7

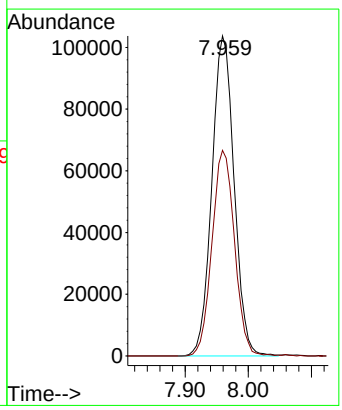


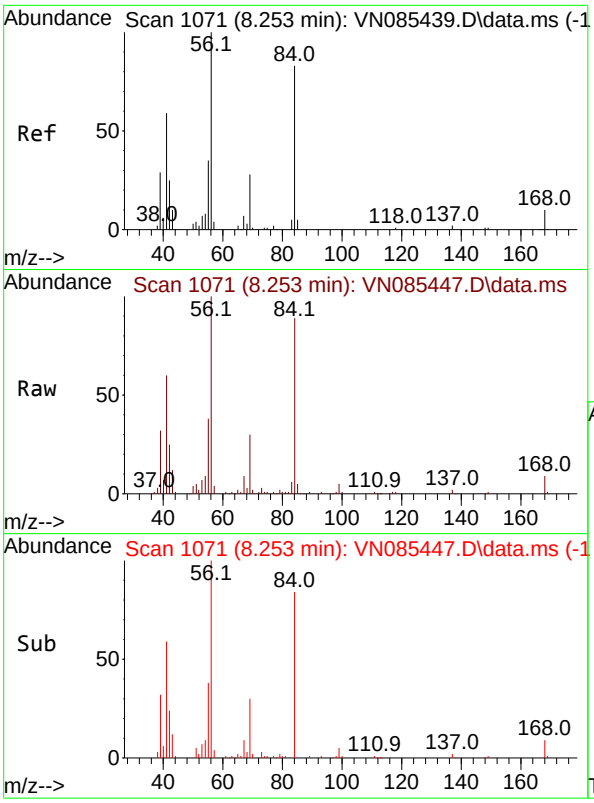


#30
Chloroform
Concen: 47.743 ug/l
RT: 7.959 min Scan# 1021
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 83 Resp: 253854

Ion	Ratio	Lower	Upper
83	100		
85	64.3	51.8	77.6



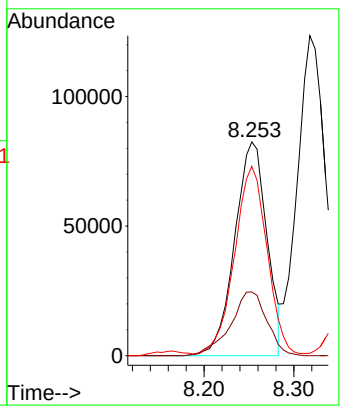


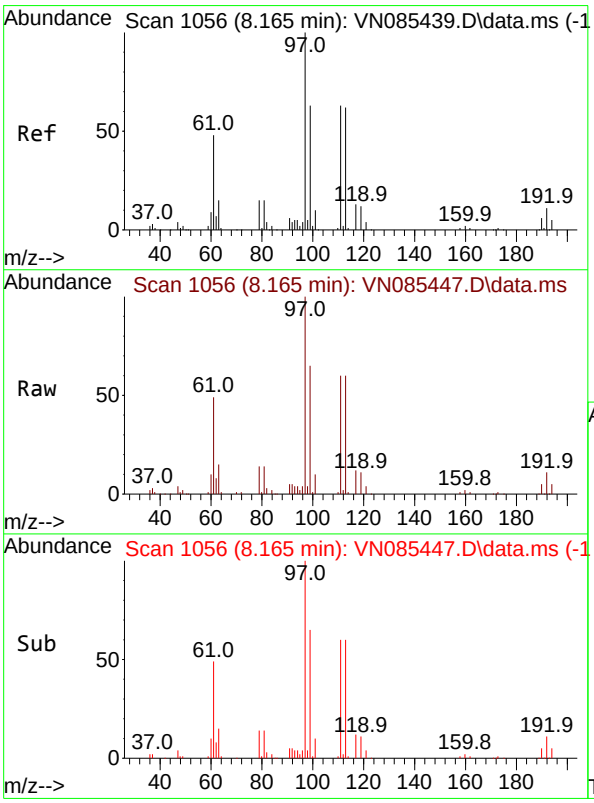
#31
Cyclohexane
Concen: 45.962 ug/l
RT: 8.253 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 56 Resp: 205522

Ion	Ratio	Lower	Upper
56	100		
69	29.8	22.2	33.4
84	86.8	66.4	99.6

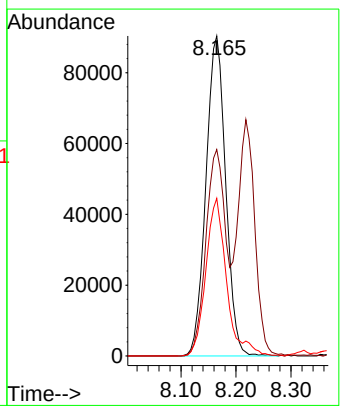


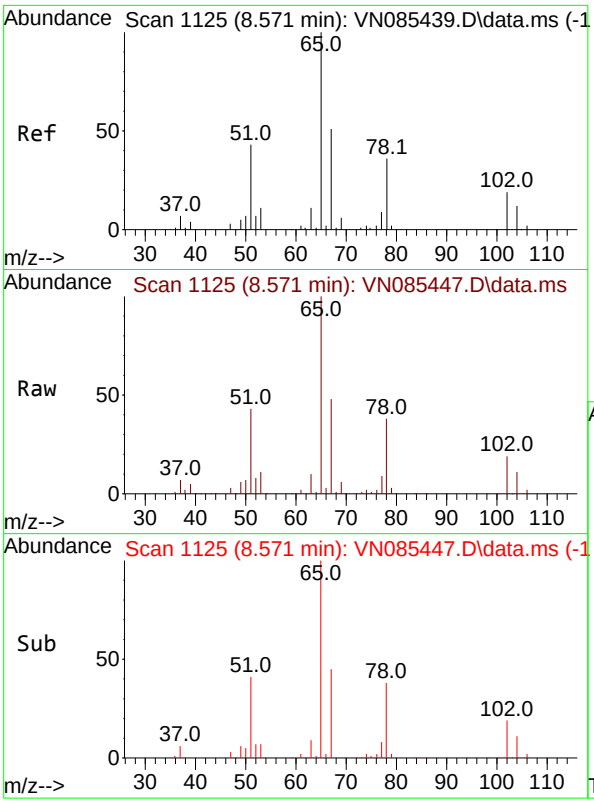


#32
1,1,1-Trichloroethane
Concen: 48.453 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 97 Resp: 225987

Ion	Ratio	Lower	Upper
97	100		
99	63.5	49.8	74.6
61	51.8	41.4	62.2



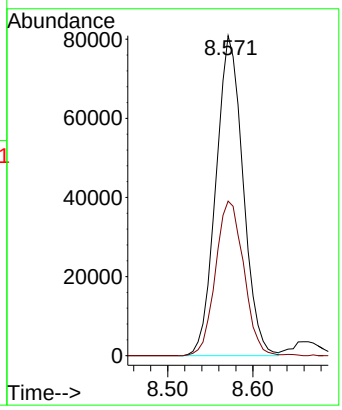


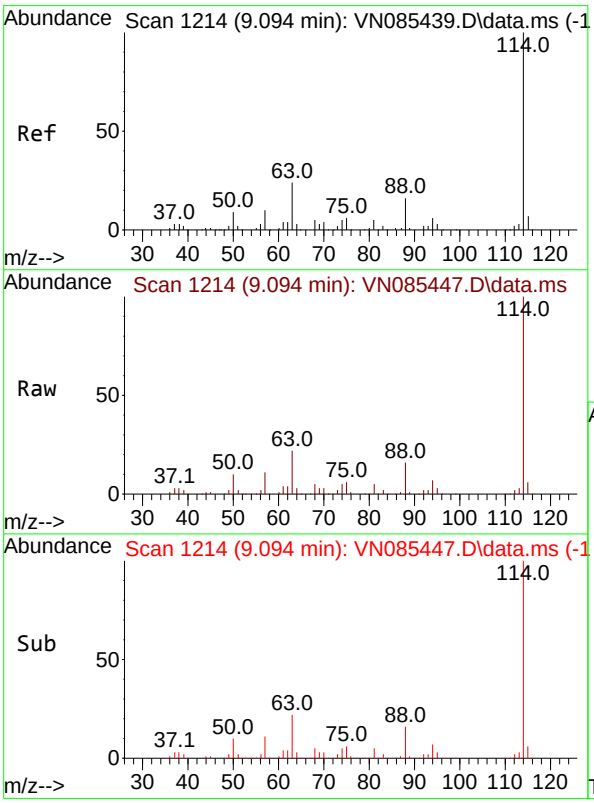
#33
1,2-Dichloroethane-d4
Concen: 50.745 ug/l
RT: 8.571 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 65 Resp: 178793

Ion	Ratio	Lower	Upper
65	100		
67	50.2	0.0	101.6

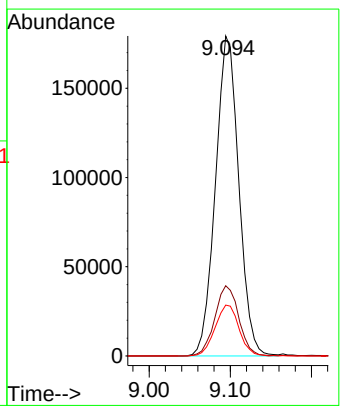


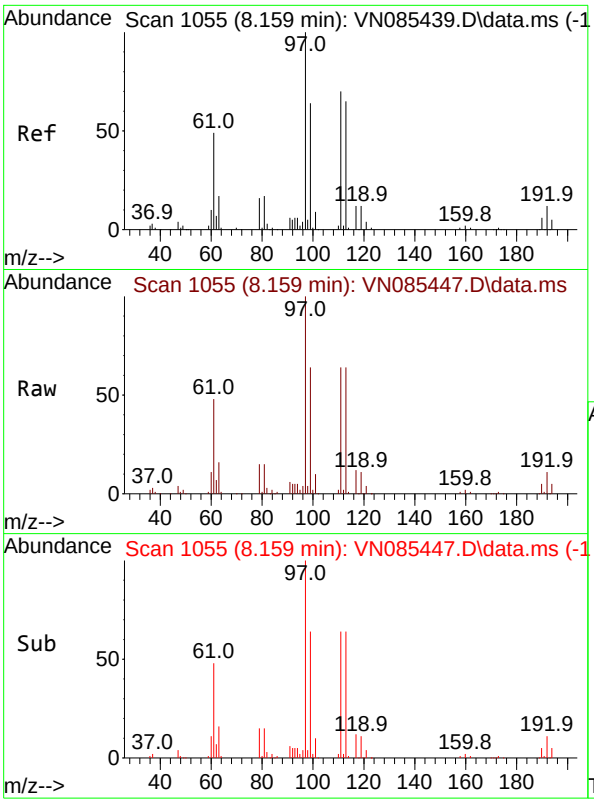


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.094 min Scan# 1214
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion:114 Resp: 358609

Ion	Ratio	Lower	Upper
114	100		
63	22.0	0.0	47.6
88	15.9	0.0	32.6



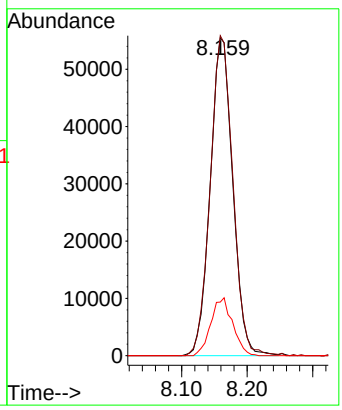


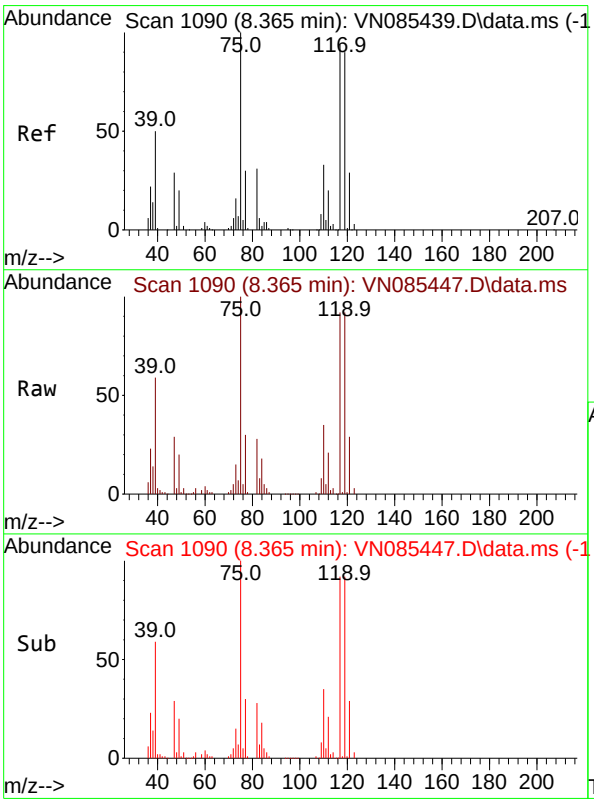
#35
Dibromofluoromethane
Concen: 53.211 ug/l
RT: 8.159 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:113 Resp: 132381

Ion	Ratio	Lower	Upper
113	100		
111	101.2	82.7	124.1
192	17.7	14.3	21.5

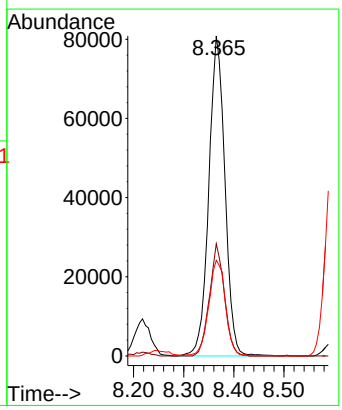


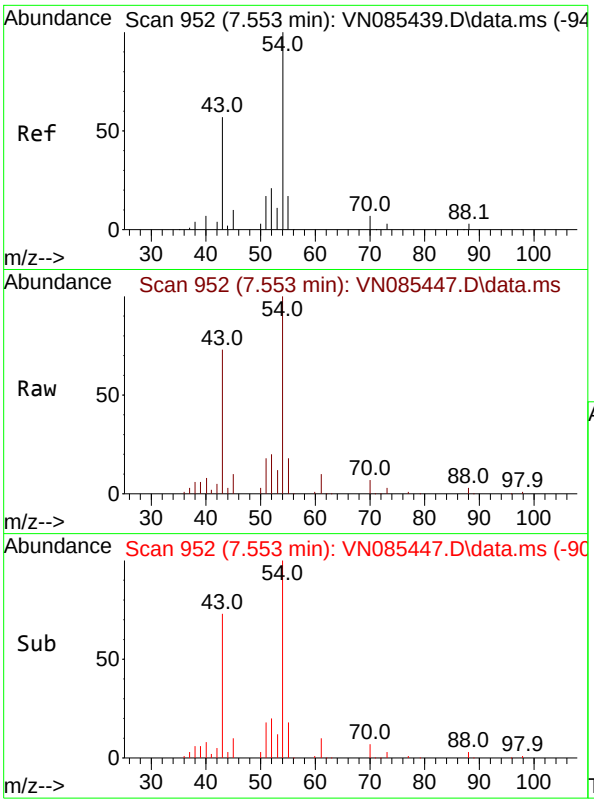


#36
1,1-Dichloropropene
Concen: 51.631 ug/l
RT: 8.365 min Scan# 1090
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 75 Resp: 180278

Ion	Ratio	Lower	Upper
75	100		
110	32.6	16.5	49.5
77	30.9	24.4	36.6



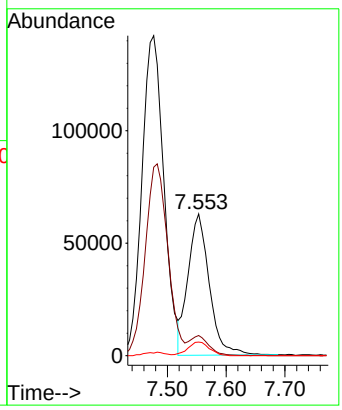


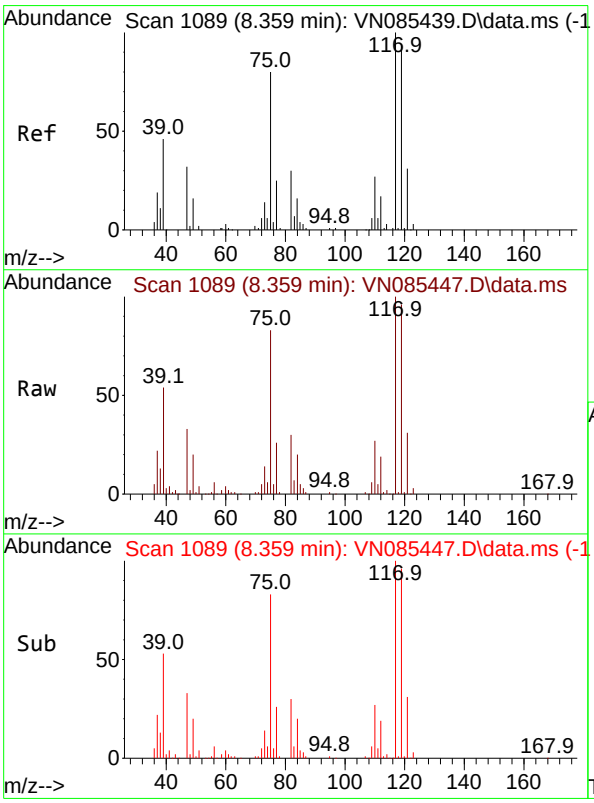
#37
Ethyl Acetate
Concen: 44.802 ug/l
RT: 7.553 min Scan# 9
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 157899

Ion	Ratio	Lower	Upper
43	100		
61	11.7	10.9	16.3
70	9.8	7.5	11.3

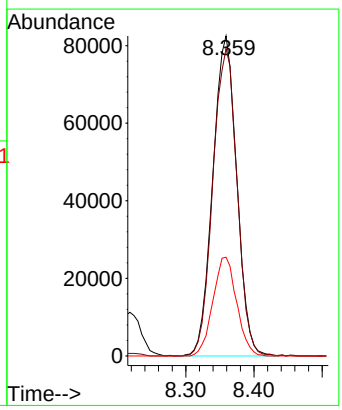


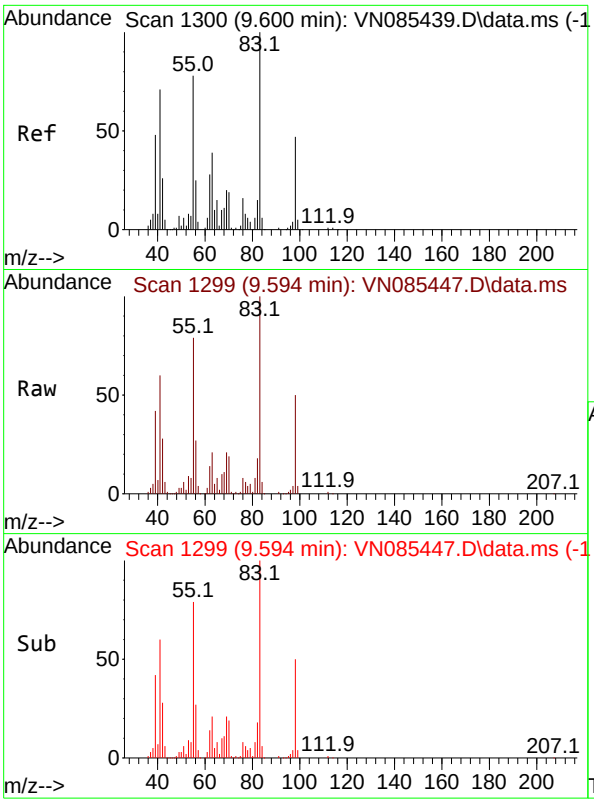


#38
Carbon Tetrachloride
Concen: 50.466 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion:117 Resp: 201730

Ion	Ratio	Lower	Upper
117	100		
119	96.0	75.4	113.2
121	30.9	24.6	37.0



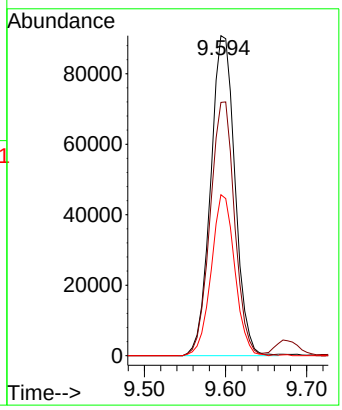


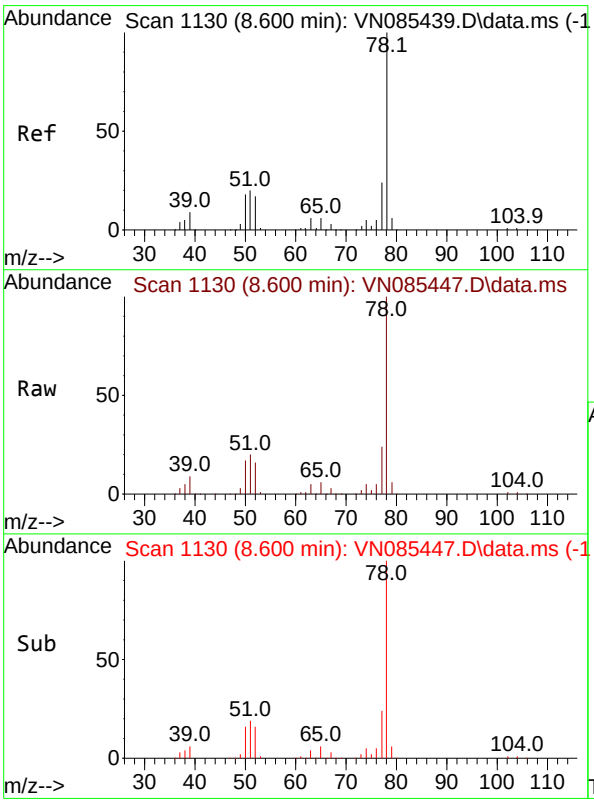
#39
Methylcyclohexane
Concen: 57.732 ug/l
RT: 9.594 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 189425

Ion	Ratio	Lower	Upper
83	100		
55	79.1	62.6	94.0
98	50.3	37.7	56.5

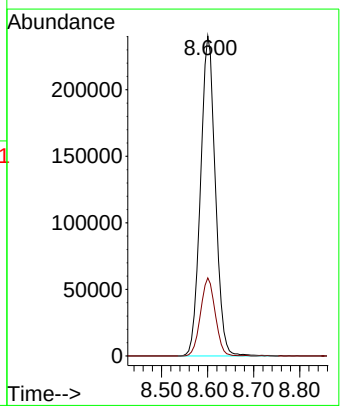


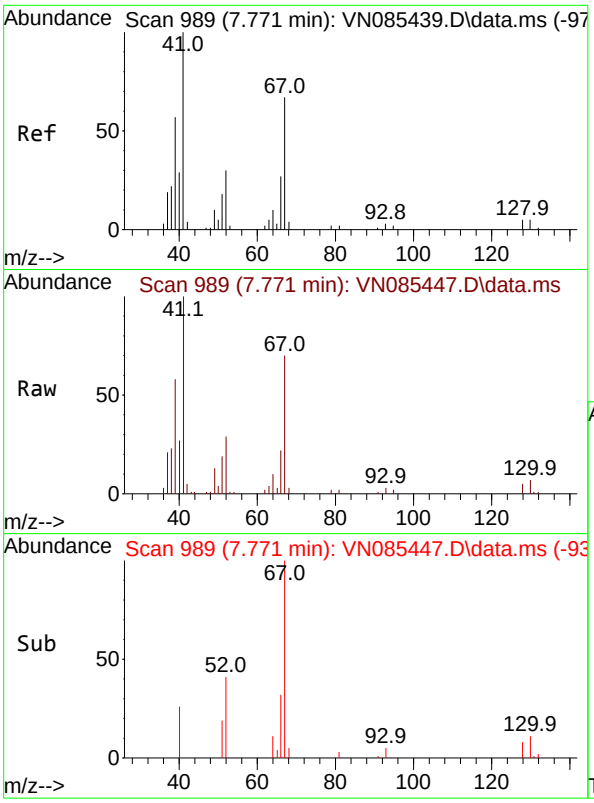


#40
Benzene
Concen: 51.417 ug/l
RT: 8.600 min Scan# 1130
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 78 Resp: 539436

Ion	Ratio	Lower	Upper
78	100		
77	24.4	19.0	28.6



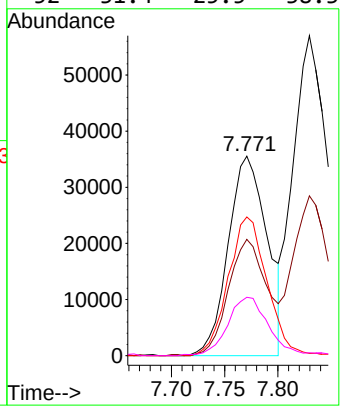


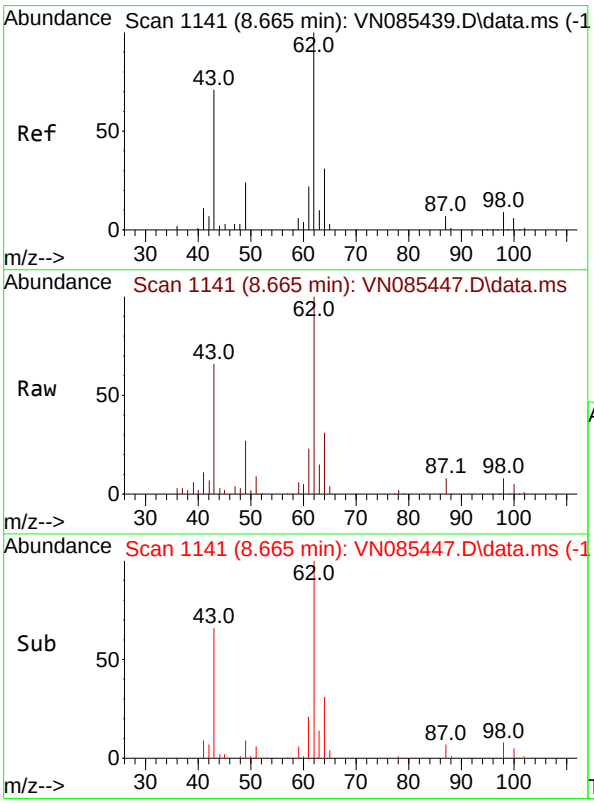
#41
Methacrylonitrile
Concen: 49.387 ug/l
RT: 7.771 min Scan# 9
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 41 Resp: 90556

Ion	Ratio	Lower	Upper
41	100		
39	57.8	46.0	69.0
67	69.2	57.4	86.2
52	31.4	25.5	38.3

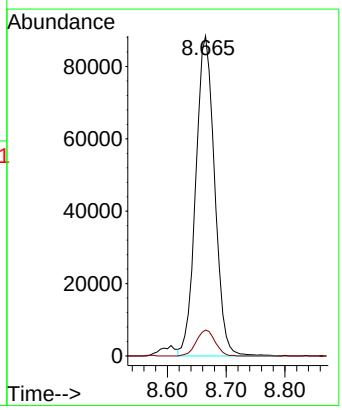


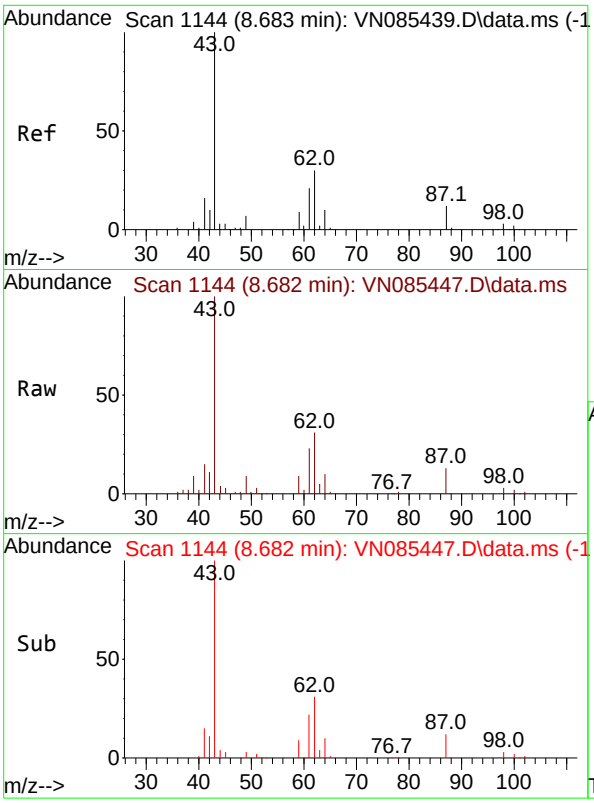


#42
1,2-Dichloroethane
Concen: 49.881 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 62 Resp: 197097

Ion	Ratio	Lower	Upper
62	100		
98	8.1	0.0	17.0



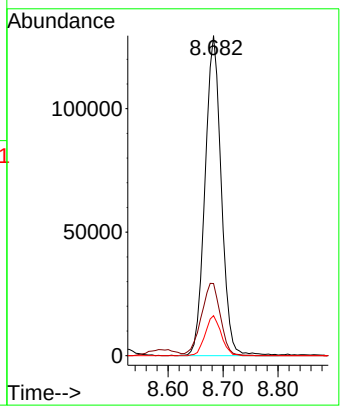


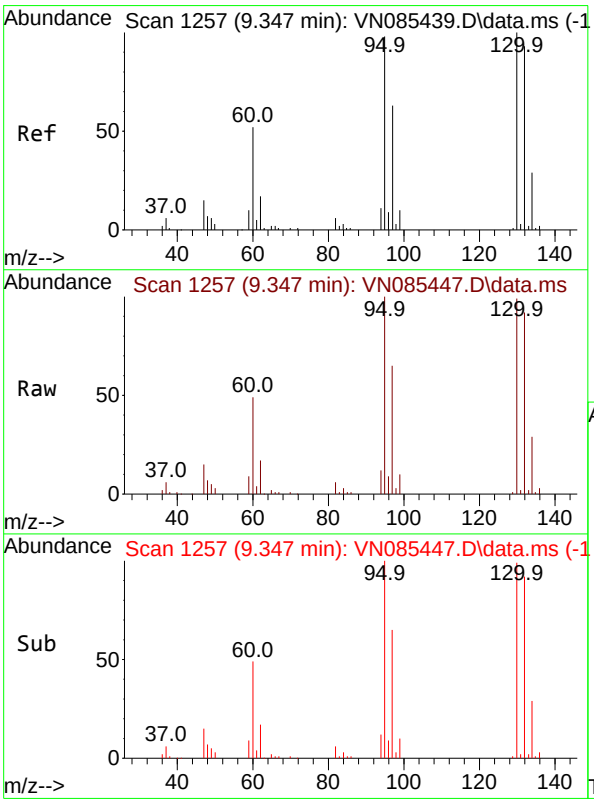
#43
Isopropyl Acetate
Concen: 47.153 ug/l
RT: 8.682 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 266284

Ion	Ratio	Lower	Upper
43	100		
61	26.6	20.7	31.1
87	12.3	9.8	14.8

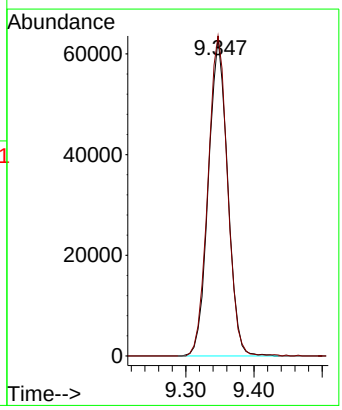


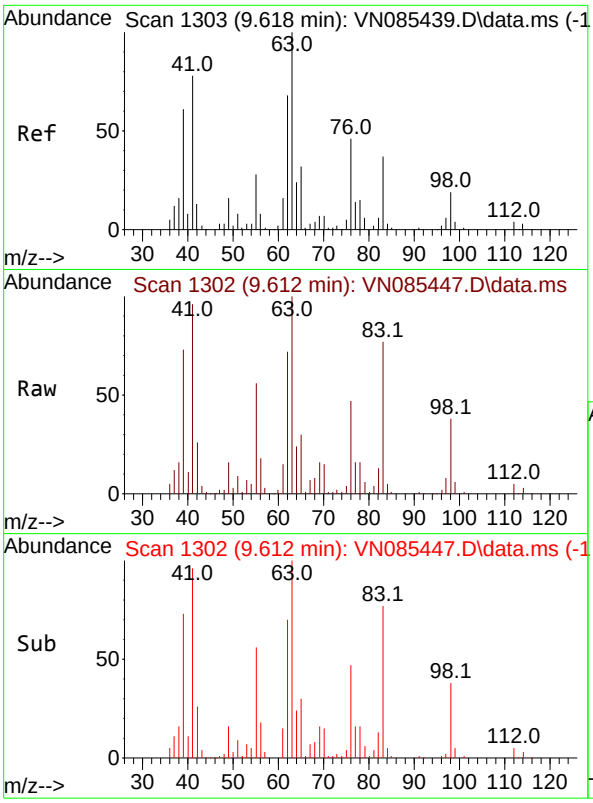


#44
Trichloroethene
Concen: 50.700 ug/l
RT: 9.347 min Scan# 1257
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion:130 Resp: 123817

Ion	Ratio	Lower	Upper
130	100		
95	100.6	0.0	195.8



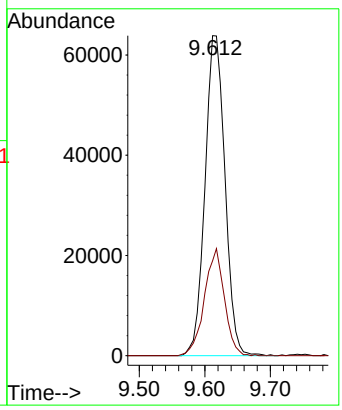


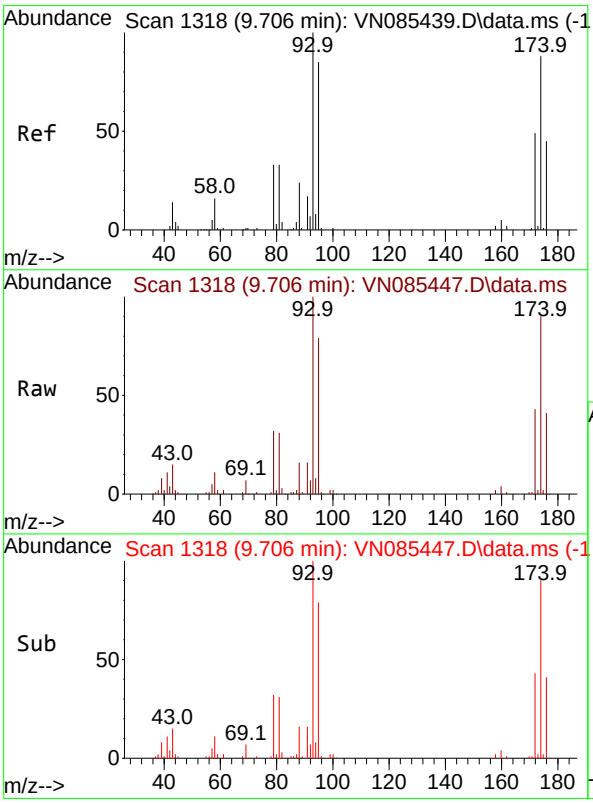
#45
1,2-Dichloropropane
Concen: 50.468 ug/l
RT: 9.612 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 63 Resp: 135244

Ion	Ratio	Lower	Upper
63	100		
65	29.6	25.6	38.4

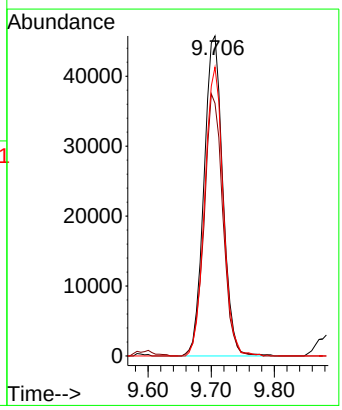


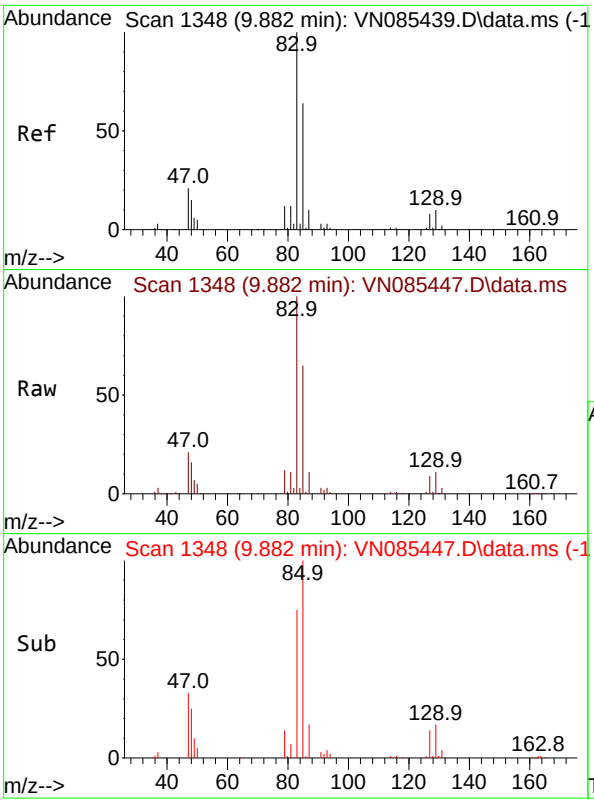


#46
Dibromomethane
Concen: 48.873 ug/l
RT: 9.706 min Scan# 1318
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 93 Resp: 94501

Ion	Ratio	Lower	Upper
93	100		
95	81.3	64.7	97.1
174	88.9	69.0	103.4



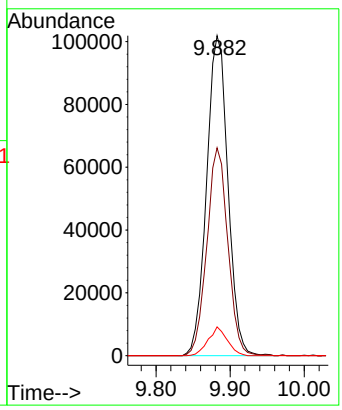


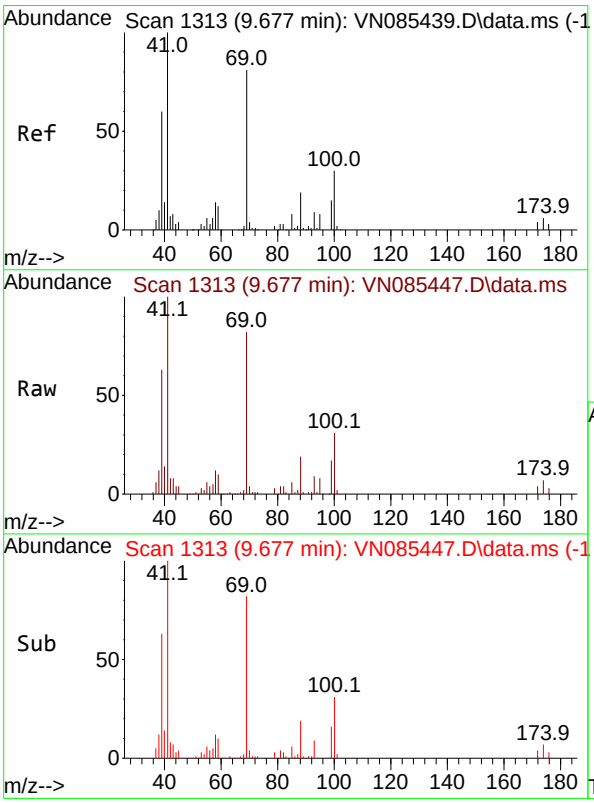
#47
Bromodichloromethane
Concen: 51.671 ug/l
RT: 9.882 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 203552

Ion	Ratio	Lower	Upper
83	100		
85	64.9	51.2	76.8
127	9.0	6.5	9.7

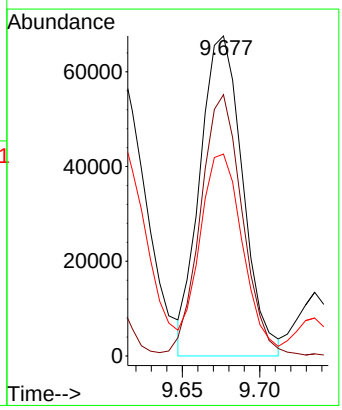


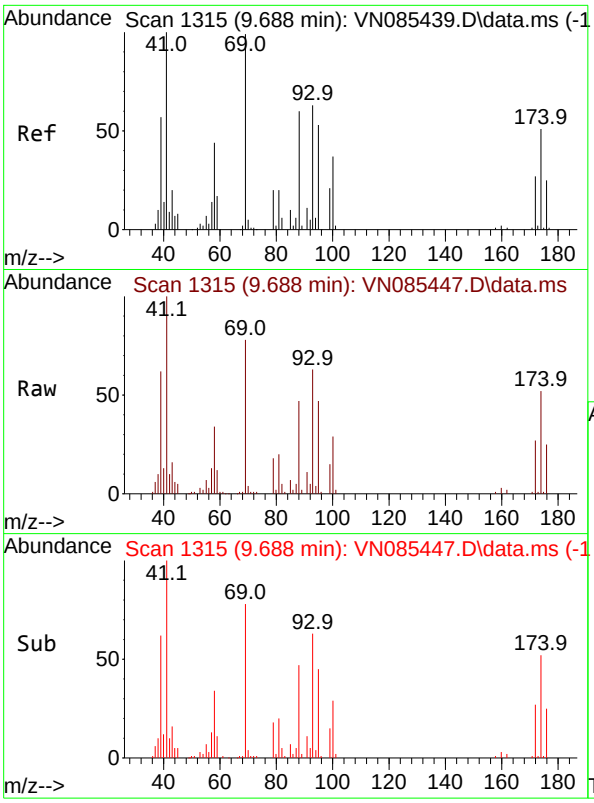


#48
Methyl methacrylate
Concen: 50.945 ug/l
RT: 9.677 min Scan# 1313
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 41 Resp: 129471

Ion	Ratio	Lower	Upper
41	100		
69	80.8	64.7	97.1
39	63.9	49.0	73.6



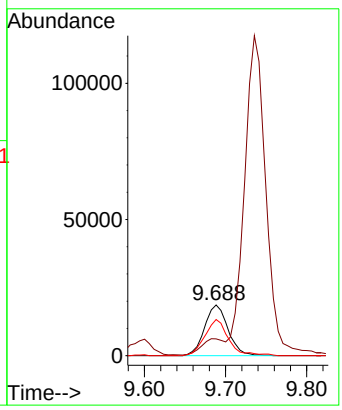


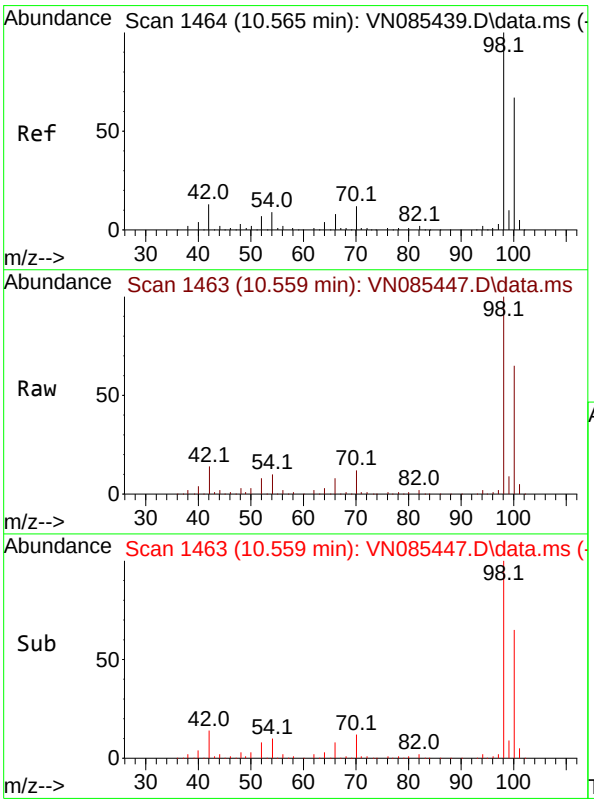
#49
1,4-Dioxane
Concen: 873.742 ug/l
RT: 9.688 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 88 Resp: 37393

Ion	Ratio	Lower	Upper
88	100		
43	32.7	26.6	39.8
58	72.0	59.5	89.3

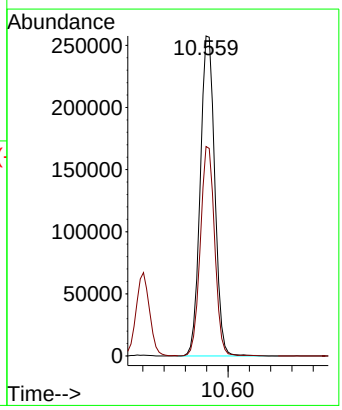


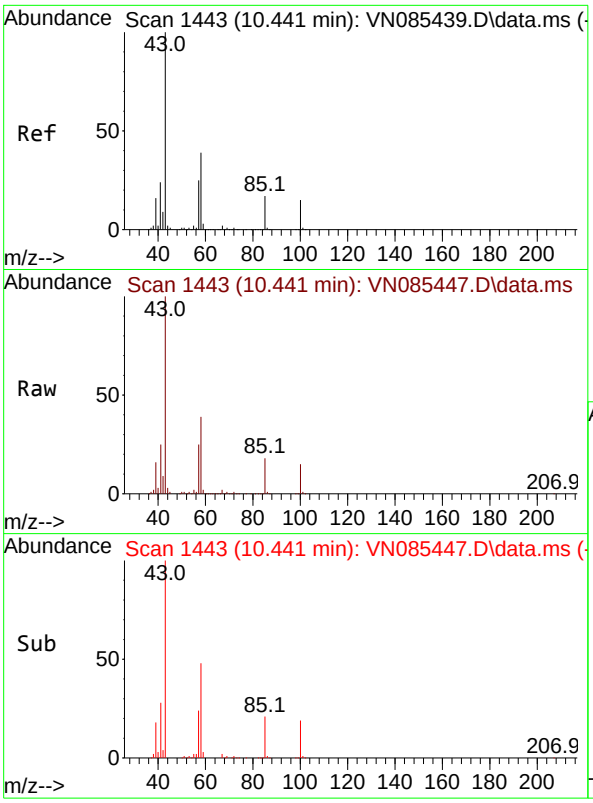


#50
Toluene-d8
Concen: 55.032 ug/l
RT: 10.559 min Scan# 1463
Delta R.T. -0.006 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 98 Resp: 486444

Ion	Ratio	Lower	Upper
98	100		
100	64.7	52.2	78.4



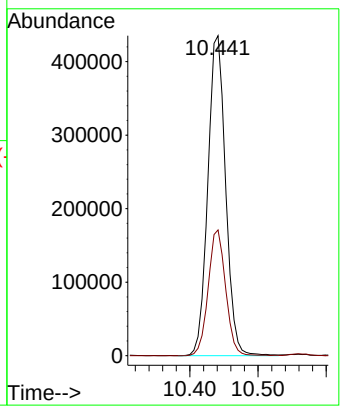


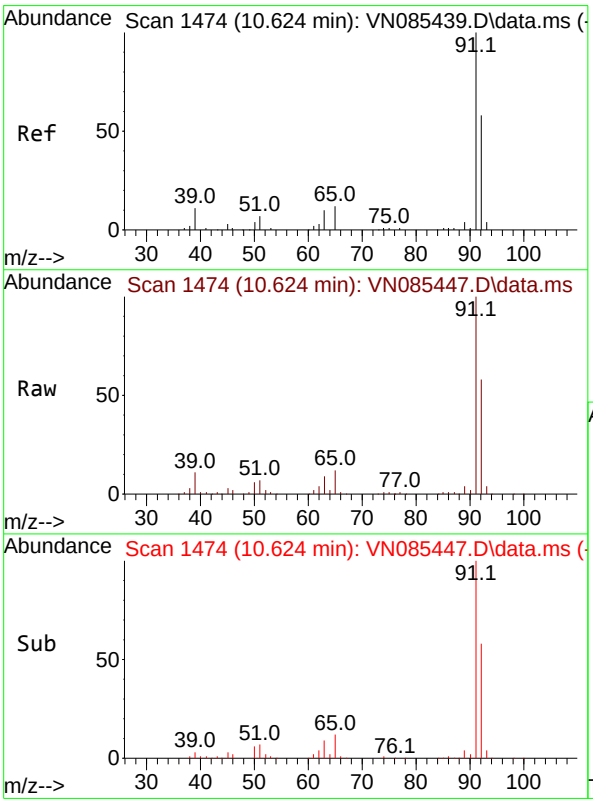
#51
4-Methyl-2-Pentanone
Concen: 240.885 ug/l
RT: 10.441 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 789380

Ion	Ratio	Lower	Upper
43	100		
58	38.6	30.5	45.7

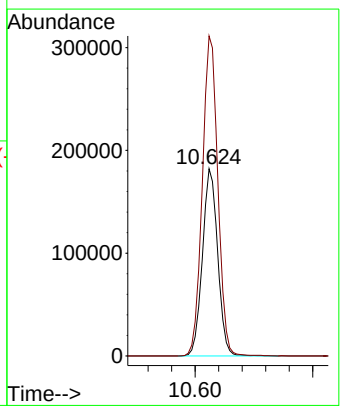


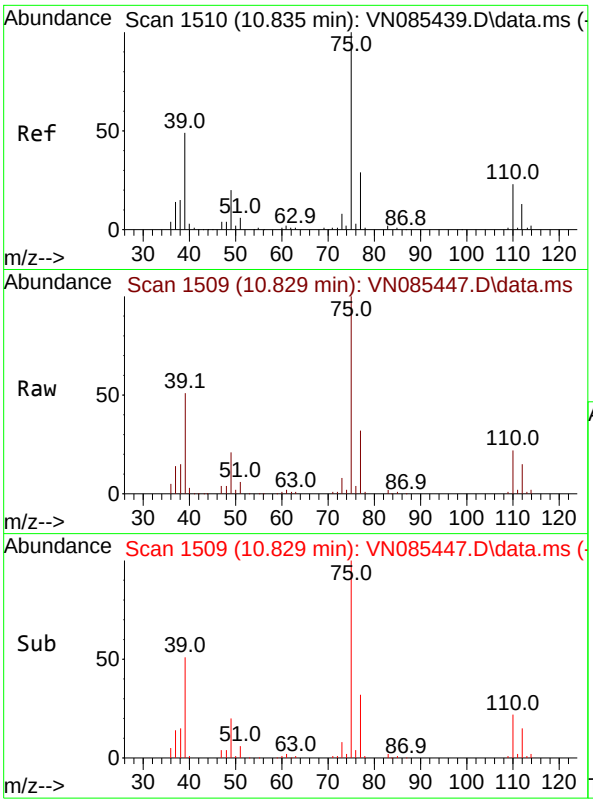


#52
Toluene
Concen: 54.029 ug/l
RT: 10.624 min Scan# 1474
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 92 Resp: 328434

Ion	Ratio	Lower	Upper
92	100		
91	174.2	139.2	208.8



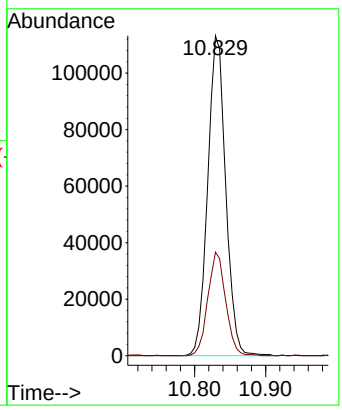


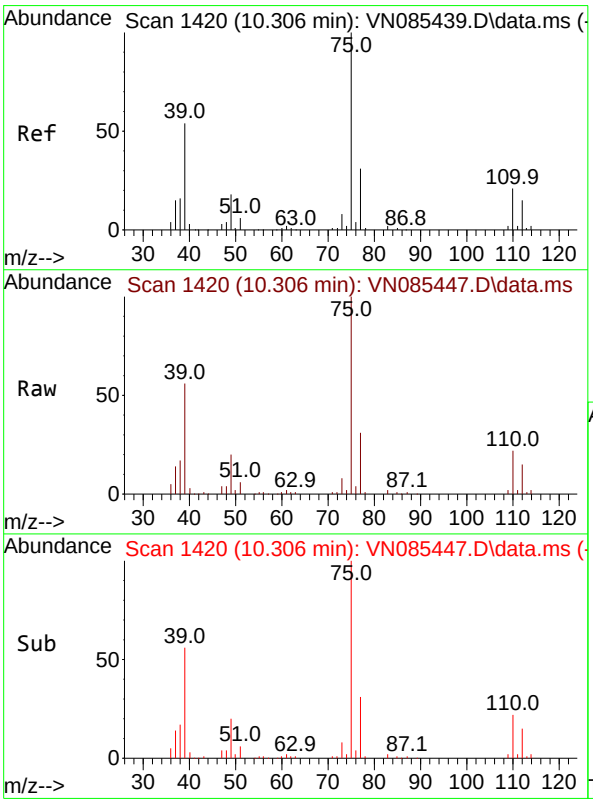
#53
t-1,3-Dichloropropene
Concen: 53.447 ug/l
RT: 10.829 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 198974

Ion	Ratio	Lower	Upper
75	100		
77	32.4	23.5	35.3

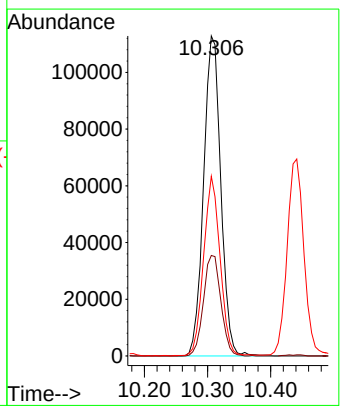


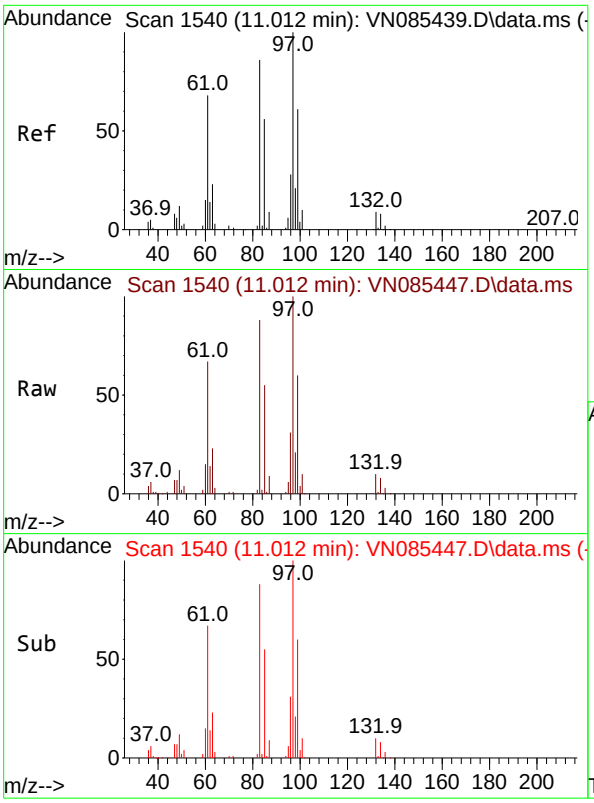


#54
cis-1,3-Dichloropropene
Concen: 53.582 ug/l
RT: 10.306 min Scan# 1420
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 75 Resp: 213072

Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.0	37.4
39	56.0	43.1	64.7



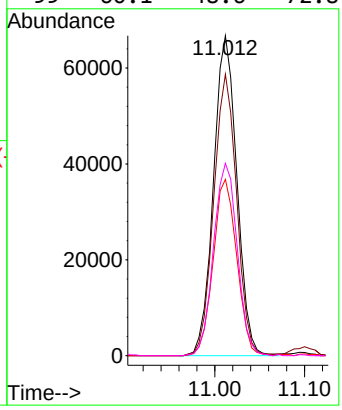


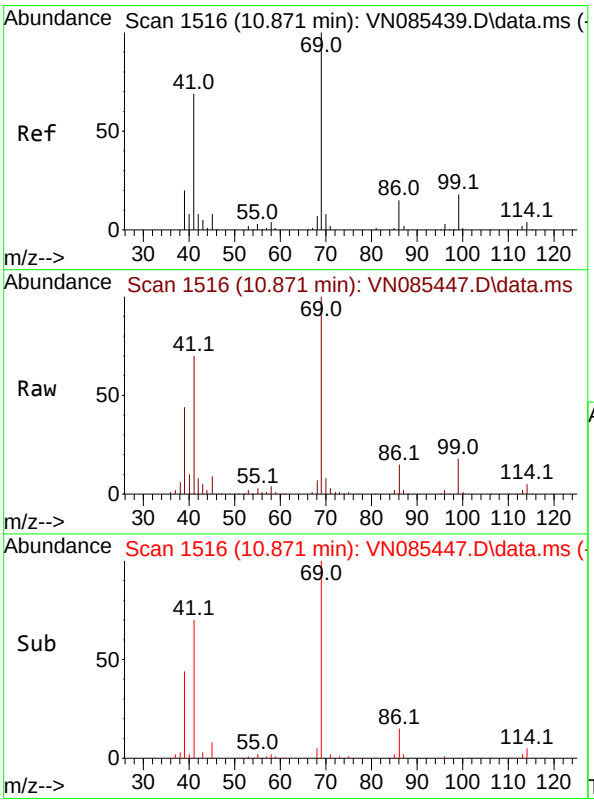
#55
1,1,2-Trichloroethane
Concen: 50.215 ug/l
RT: 11.012 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 97 Resp: 120803

Ion	Ratio	Lower	Upper
97	100		
83	88.0	69.0	103.6
85	55.1	44.6	66.8
99	60.1	48.6	72.8

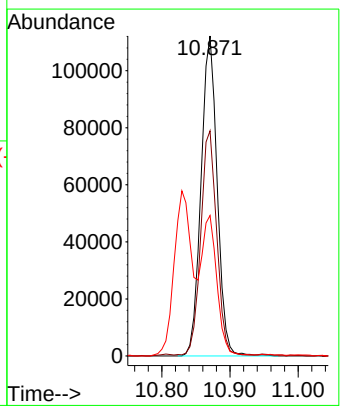


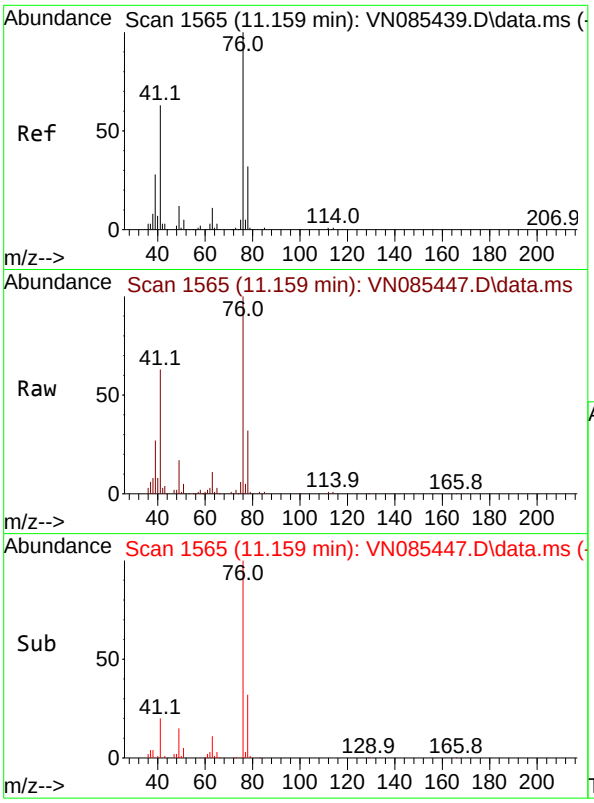


#56
Ethyl methacrylate
Concen: 45.714 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 69 Resp: 184561

Ion	Ratio	Lower	Upper
69	100		
41	68.8	54.6	82.0
39	39.6	32.4	48.6



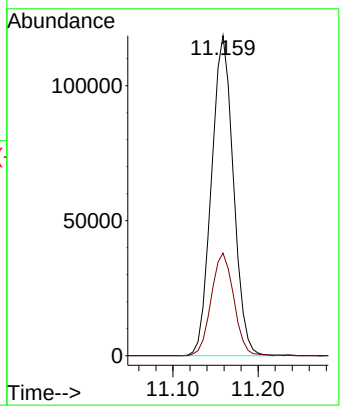


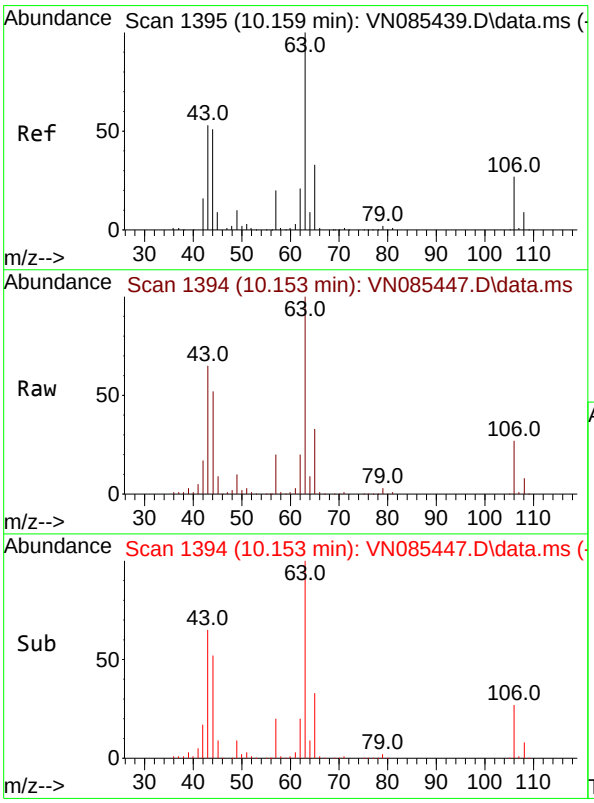
#57
1,3-Dichloropropane
Concen: 50.662 ug/l
RT: 11.159 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 211921

Ion	Ratio	Lower	Upper
76	100		
78	32.9	25.6	38.4

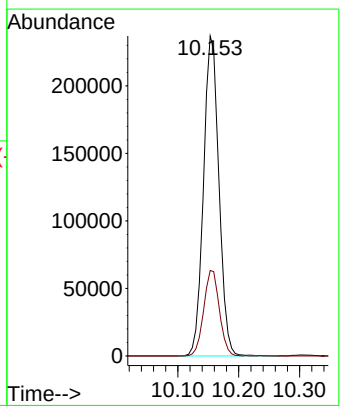


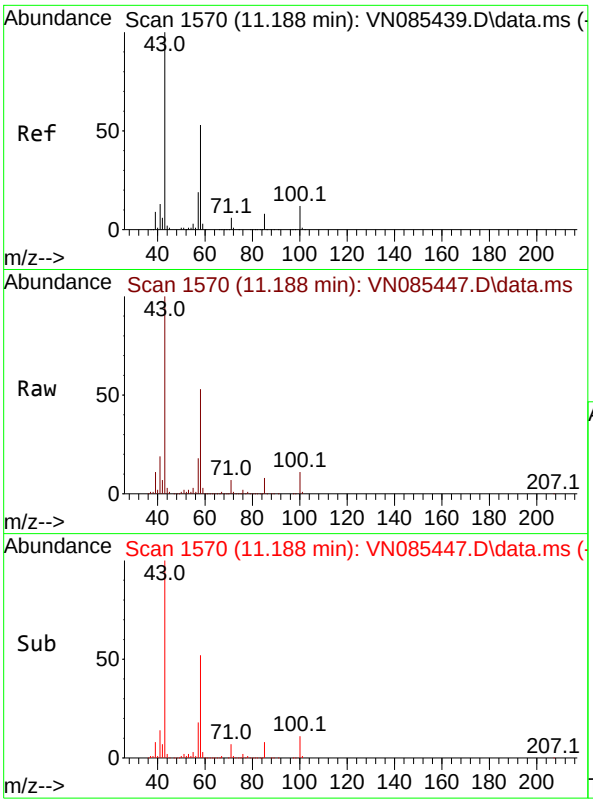


#58
2-Chloroethyl Vinyl ether
Concen: 272.966 ug/l
RT: 10.153 min Scan# 1394
Delta R.T. -0.006 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 63 Resp: 416723

Ion	Ratio	Lower	Upper
63	100		
106	27.1	21.6	32.4



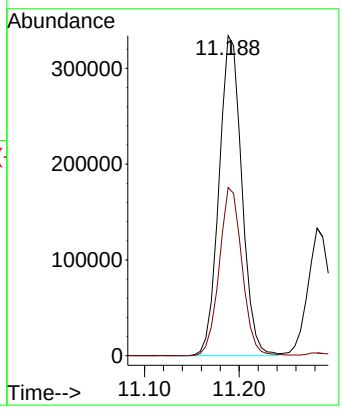


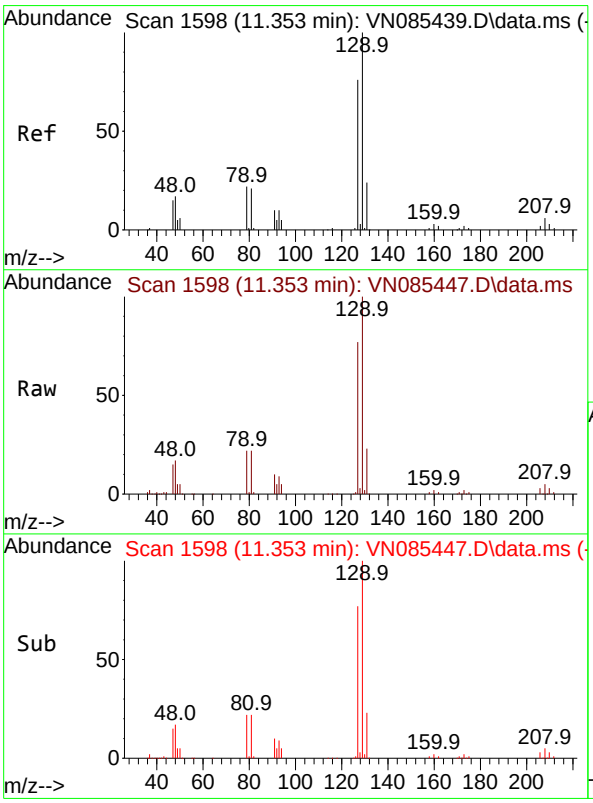
#59
2-Hexanone
Concen: 242.307 ug/l
RT: 11.188 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 558711

Ion	Ratio	Lower	Upper
43	100		
58	52.6	26.2	78.6

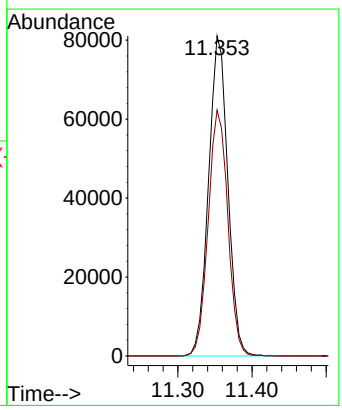


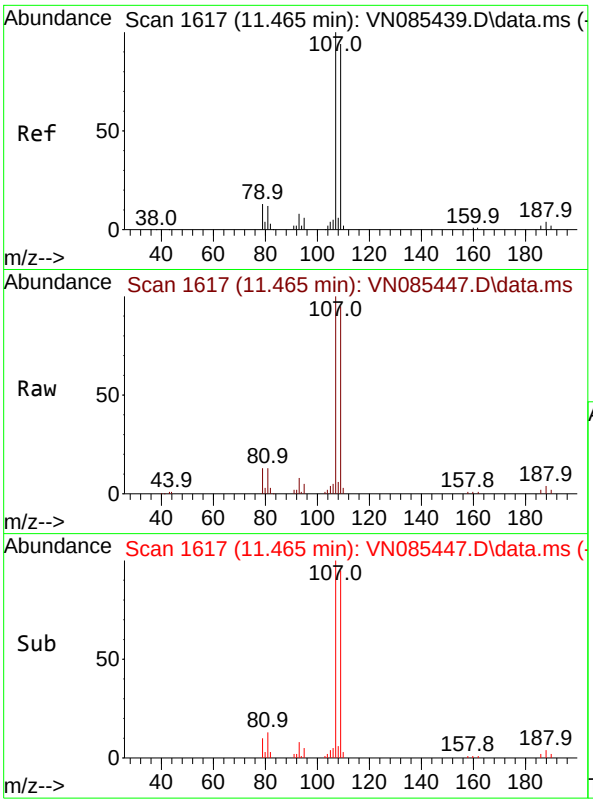


#60
Dibromochloromethane
Concen: 50.392 ug/l
RT: 11.353 min Scan# 1598
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion:129 Resp: 146358

Ion	Ratio	Lower	Upper
129	100		
127	78.3	38.6	115.8



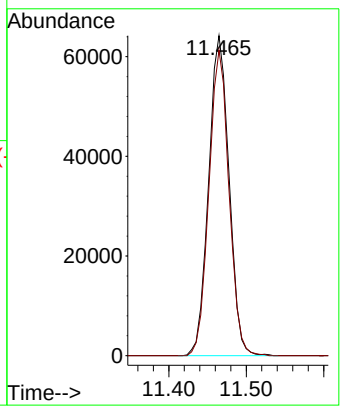


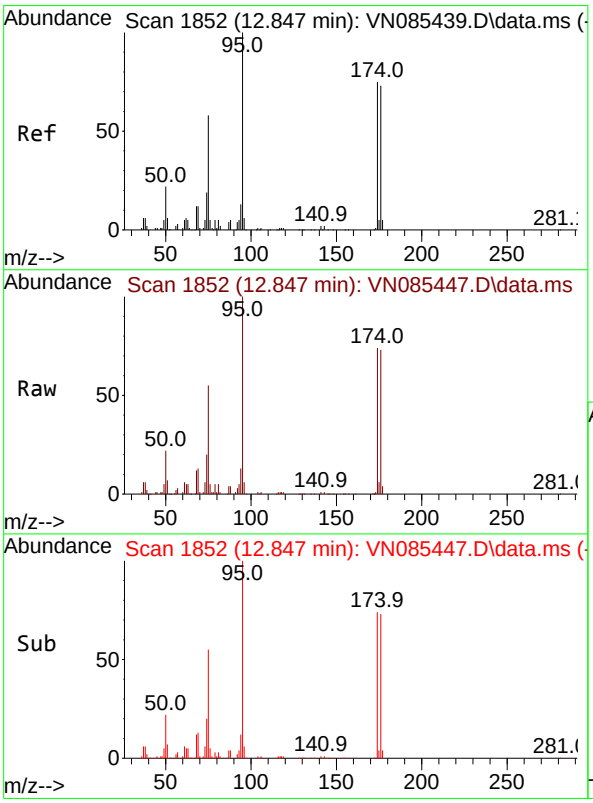
#61
1,2-Dibromoethane
Concen: 49.039 ug/l
RT: 11.465 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:107 Resp: 117431

Ion	Ratio	Lower	Upper
107	100		
109	93.8	75.9	113.9

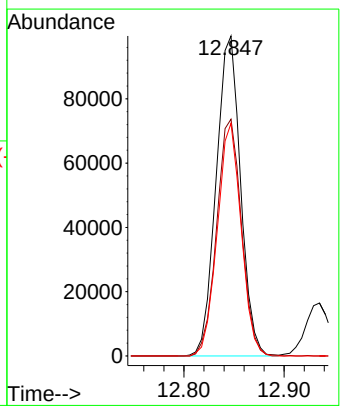


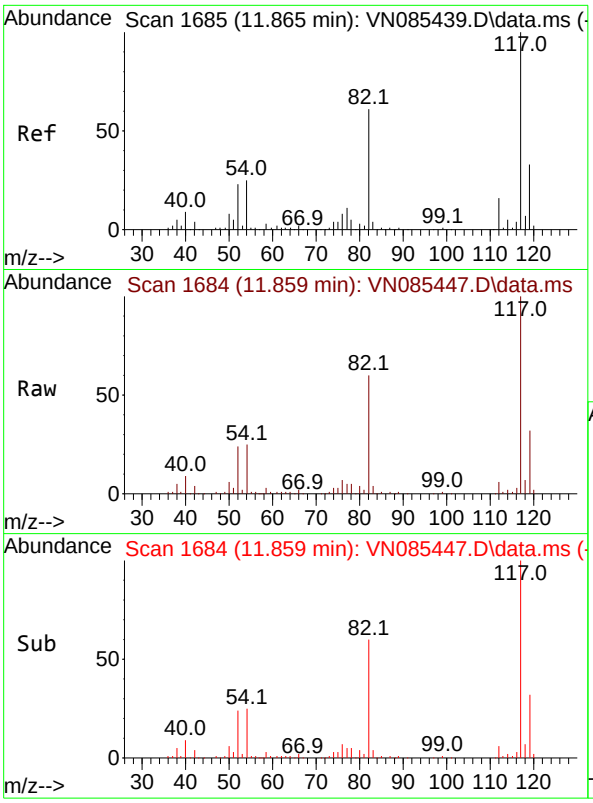


#62
4-Bromofluorobenzene
Concen: 55.673 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 95 Resp: 168340

Ion	Ratio	Lower	Upper
95	100		
174	75.1	0.0	145.0
176	70.8	0.0	142.4



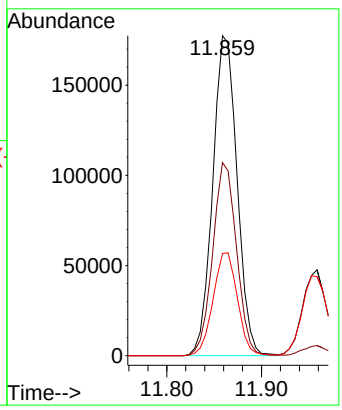


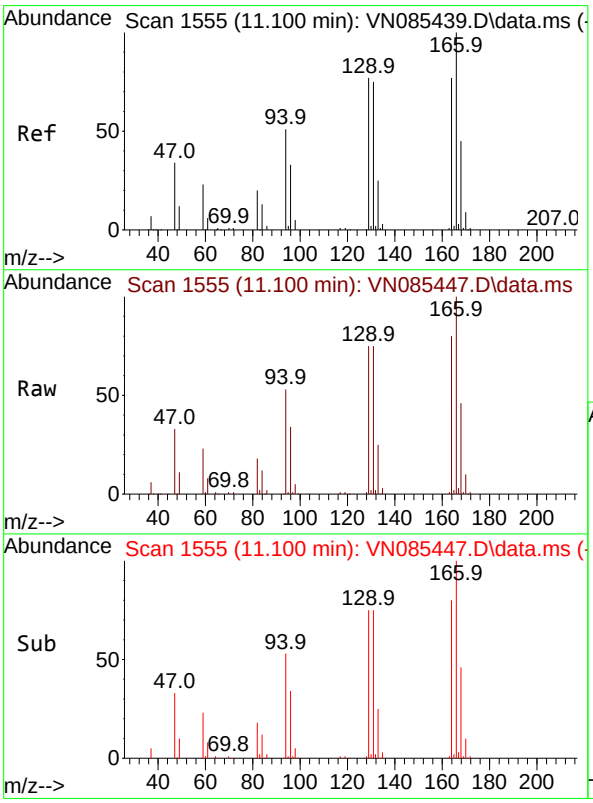
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.859 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:117 Resp: 316952

Ion	Ratio	Lower	Upper
117	100		
82	60.4	48.6	72.8
119	31.9	26.6	39.8

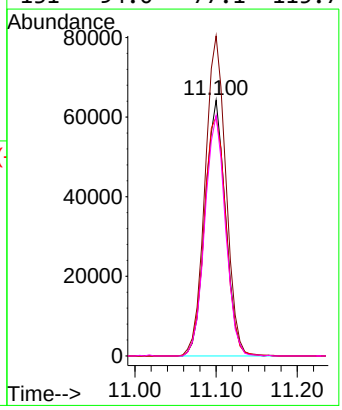


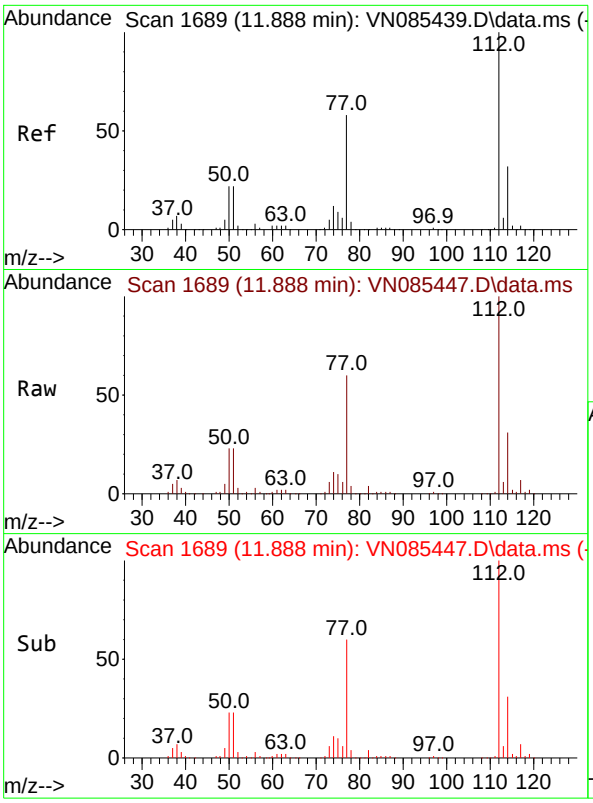


#64
Tetrachloroethene
Concen: 52.107 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion:164 Resp: 112592

Ion	Ratio	Lower	Upper
164	100		
166	125.2	103.4	155.2
129	93.6	79.2	118.8
131	94.0	77.1	115.7



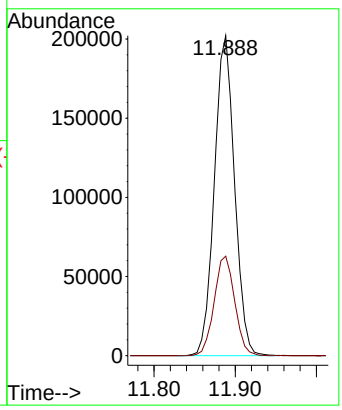


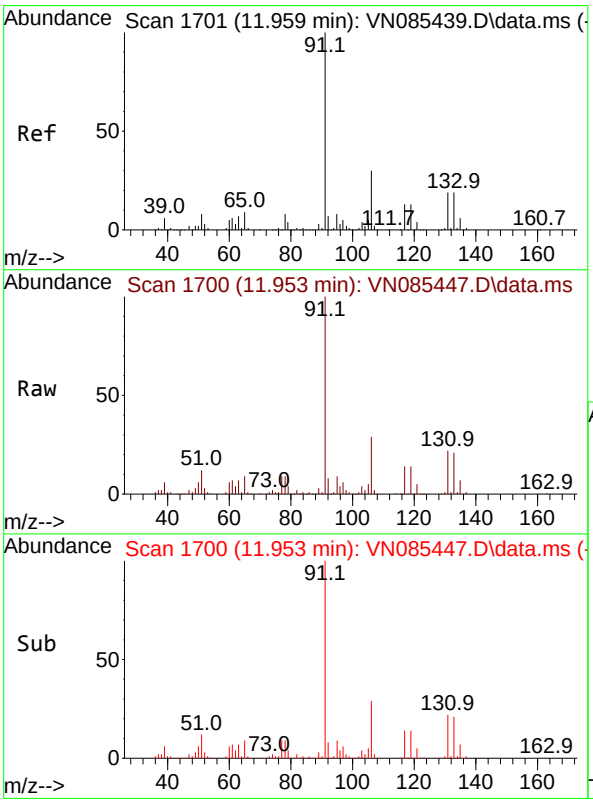
#65
Chlorobenzene
Concen: 50.257 ug/l
RT: 11.888 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:112 Resp: 348954

Ion	Ratio	Lower	Upper
112	100		
114	31.1	25.3	37.9

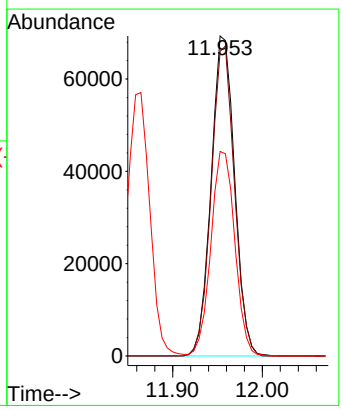


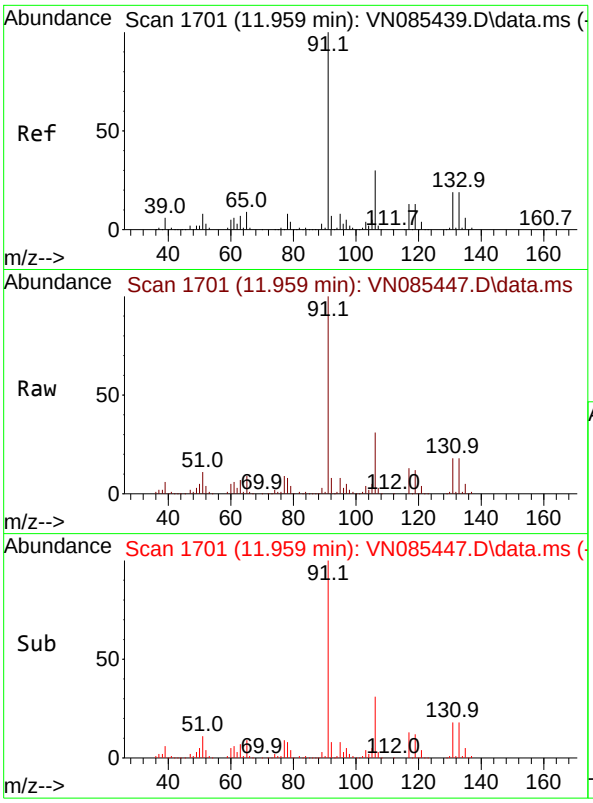


#66
1,1,1,2-Tetrachloroethane
Concen: 49.494 ug/l
RT: 11.953 min Scan# 1700
Delta R.T. -0.006 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion:131 Resp: 126127

Ion	Ratio	Lower	Upper
131	100		
133	95.6	47.4	142.3
119	65.1	33.1	99.5



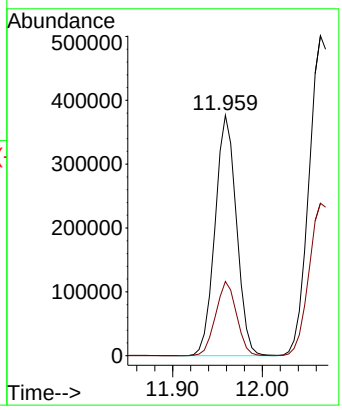


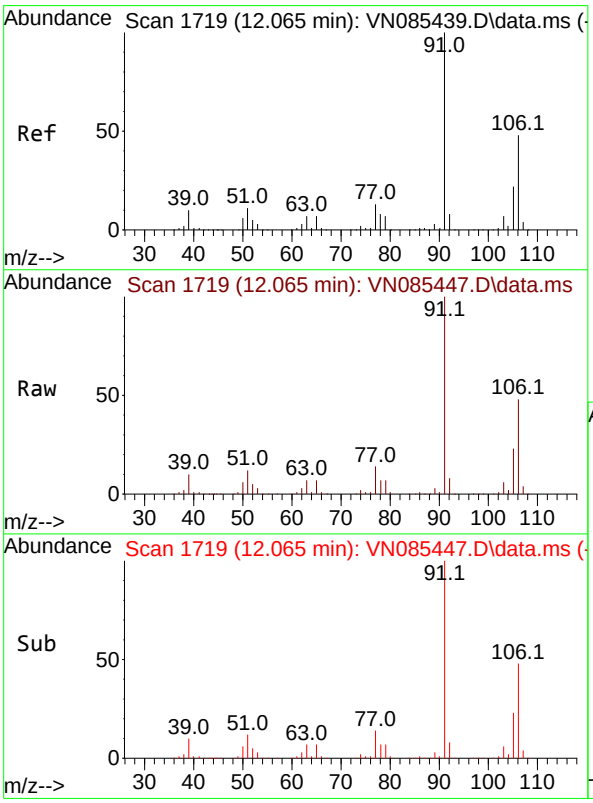
#67
Ethyl Benzene
Concen: 55.122 ug/l
RT: 11.959 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 623373

Ion	Ratio	Lower	Upper
91	100		
106	30.9	23.8	35.8

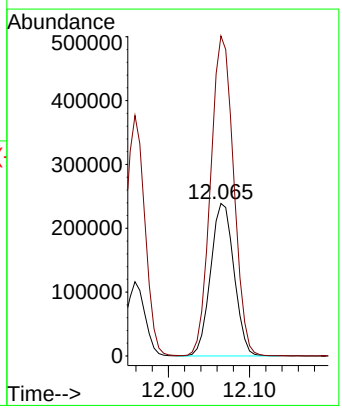


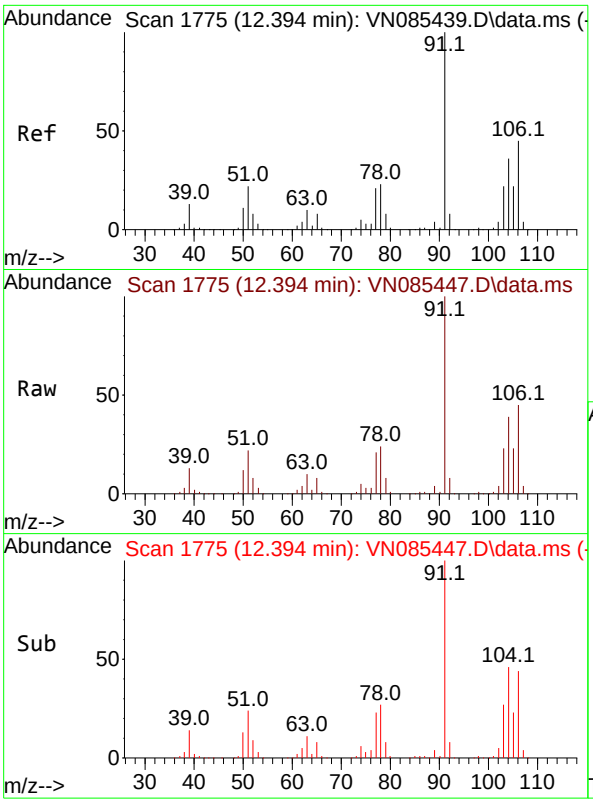


#68
m/p-Xylenes
Concen: 114.570 ug/l
RT: 12.065 min Scan# 1719
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion:106 Resp: 478857

Ion	Ratio	Lower	Upper
106	100		
91	207.2	167.7	251.5



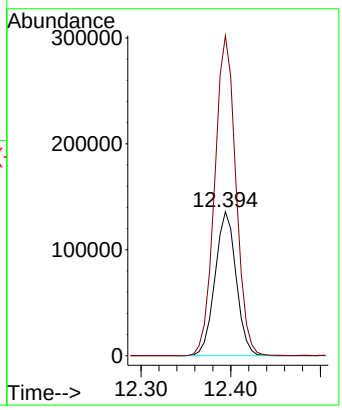


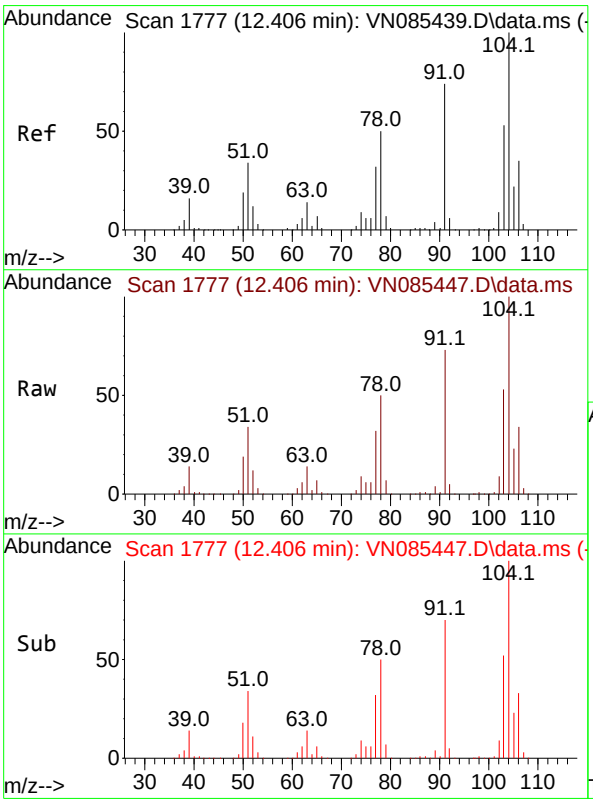
#69
o-Xylene
Concen: 55.481 ug/l
RT: 12.394 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:106 Resp: 221609

Ion	Ratio	Lower	Upper
106	100		
91	223.4	110.4	331.2

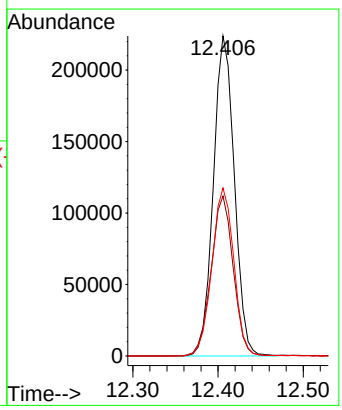


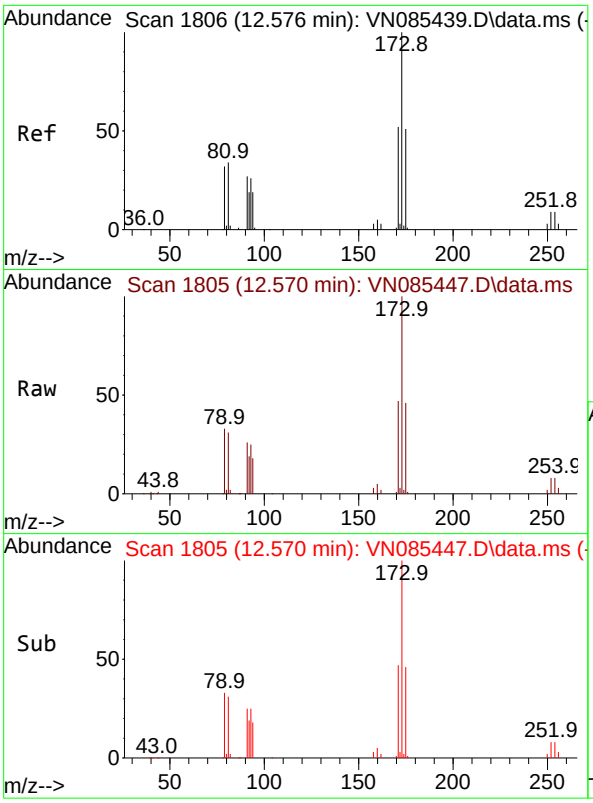


#70
Styrene
Concen: 57.933 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion:104 Resp: 382963

Ion	Ratio	Lower	Upper
104	100		
78	52.8	42.5	63.7
103	55.0	43.8	65.8



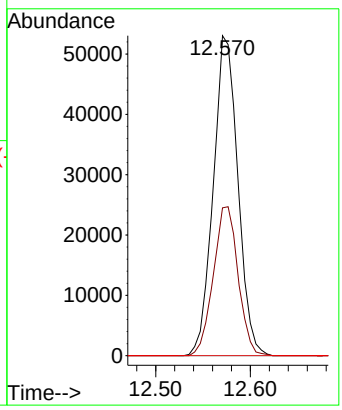


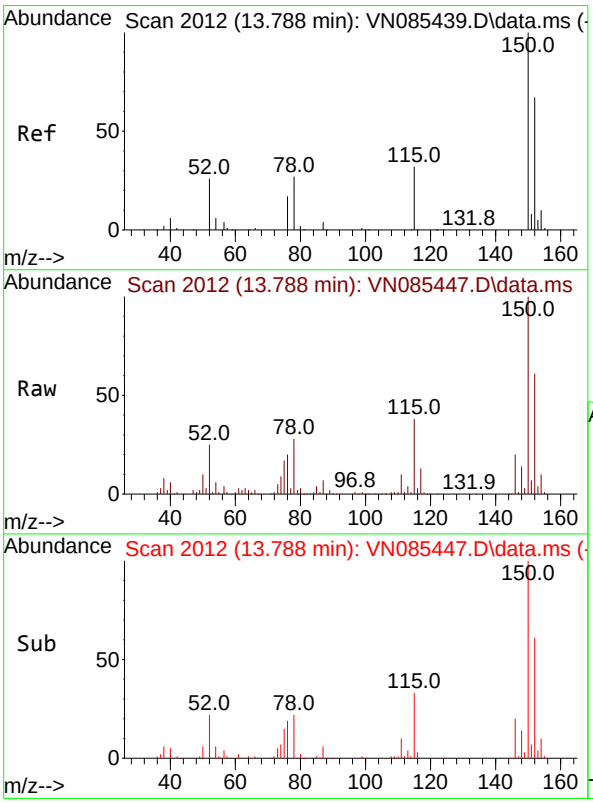
#71
Bromoform
Concen: 52.493 ug/l
RT: 12.570 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:173 Resp: 95715

Ion	Ratio	Lower	Upper
173	100		
175	47.0	24.4	73.2
254	0.0	0.0	0.0

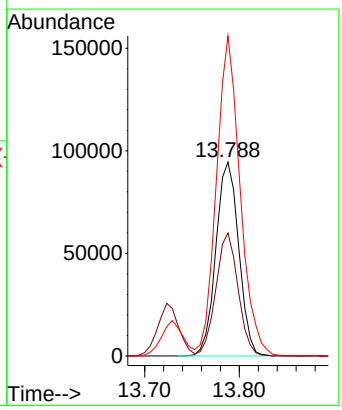


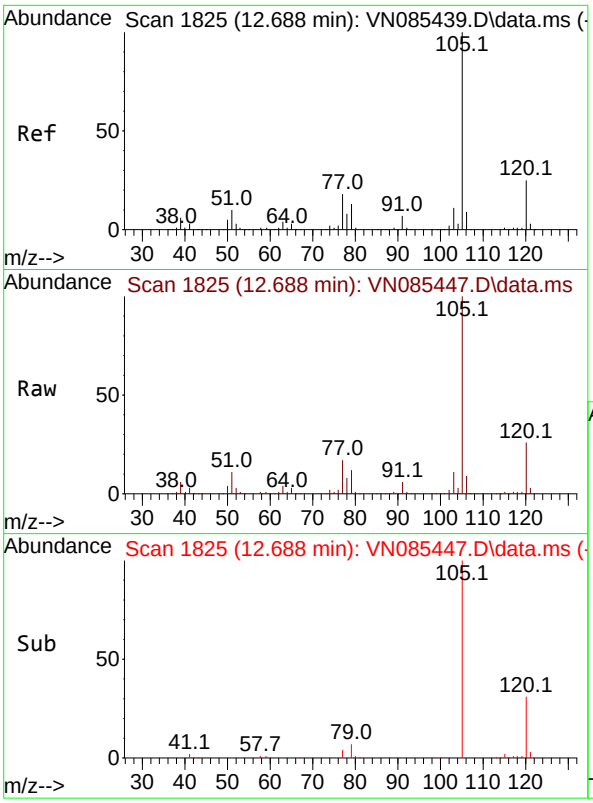


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion:152 Resp: 158347

Ion	Ratio	Lower	Upper
152	100		
115	61.8	31.1	93.3
150	171.2	0.0	343.6



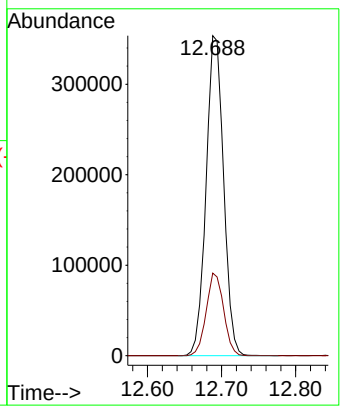


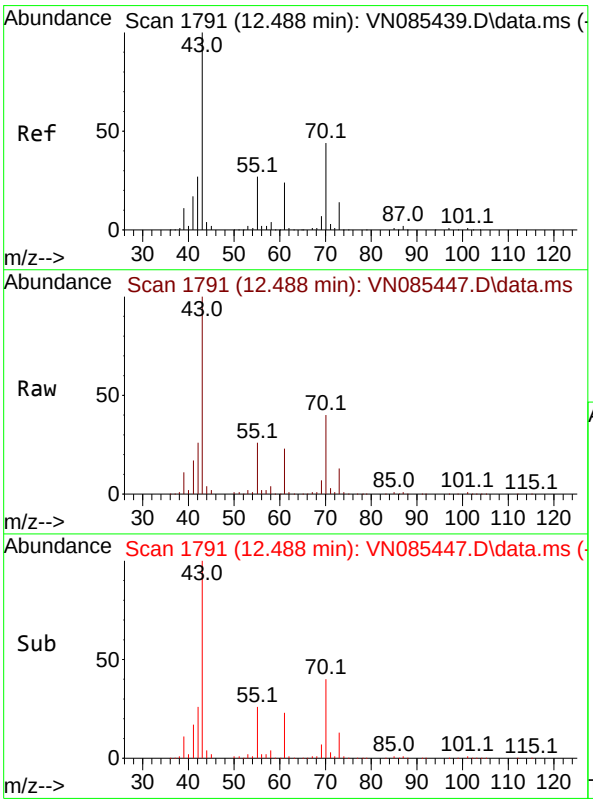
#73
Isopropylbenzene
Concen: 54.261 ug/l
RT: 12.688 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 579887

Ion	Ratio	Lower	Upper
105	100		
120	25.6	12.8	38.3

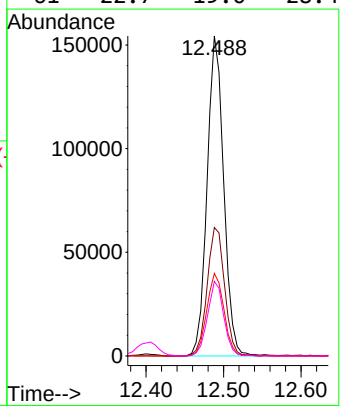


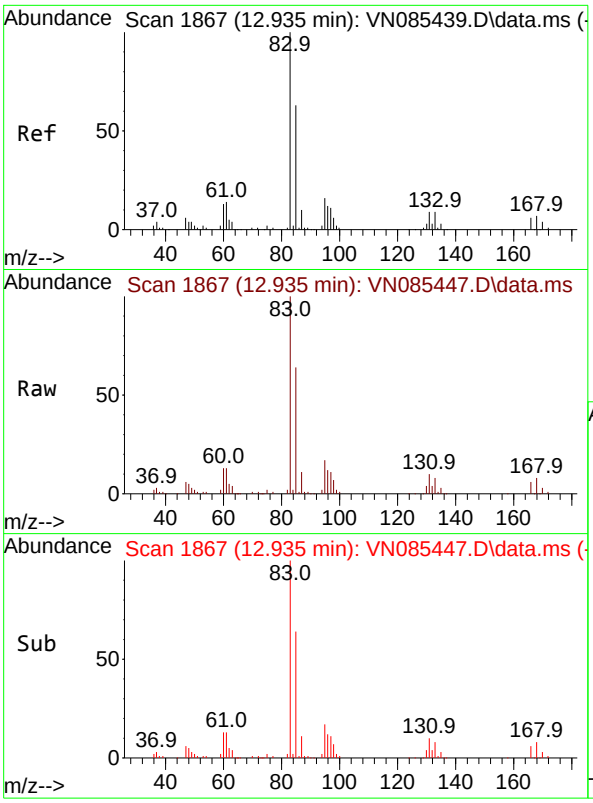


#74
N-amyl acetate
Concen: 47.841 ug/l
RT: 12.488 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 43 Resp: 229808

Ion	Ratio	Lower	Upper
43	100		
70	42.0	34.0	51.0
55	26.8	21.4	32.2
61	22.7	19.0	28.4



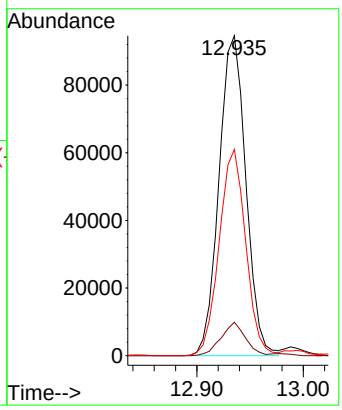


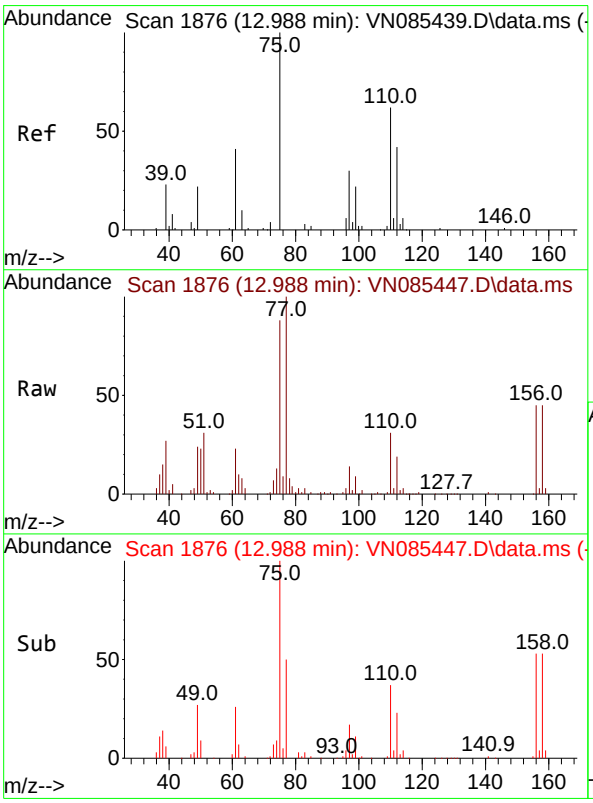
#75
1,1,2,2-Tetrachloroethane
Concen: 43.898 ug/l
RT: 12.935 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 165720

Ion	Ratio	Lower	Upper
83	100		
131	9.6	4.8	14.4
85	63.6	32.2	96.6

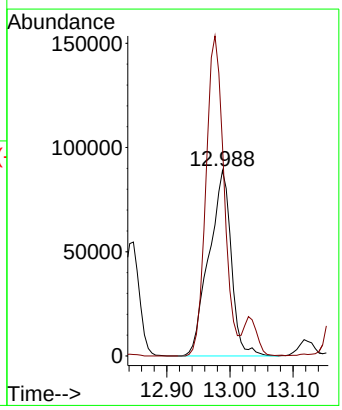


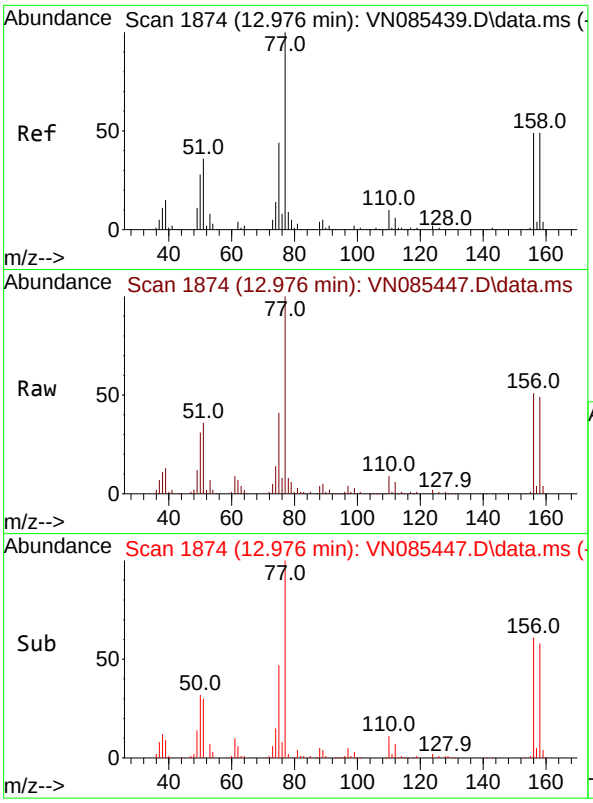


#76
1,2,3-Trichloropropane
Concen: 67.902 ug/l
RT: 12.988 min Scan# 1876
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 75 Resp: 218540

Ion	Ratio	Lower	Upper
75	100		
77	138.4	109.7	329.2



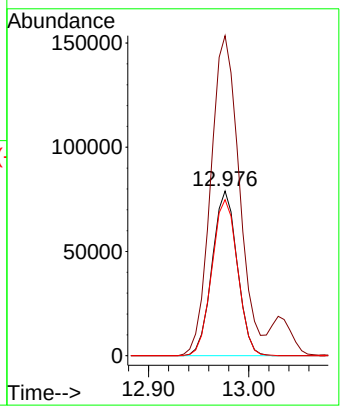


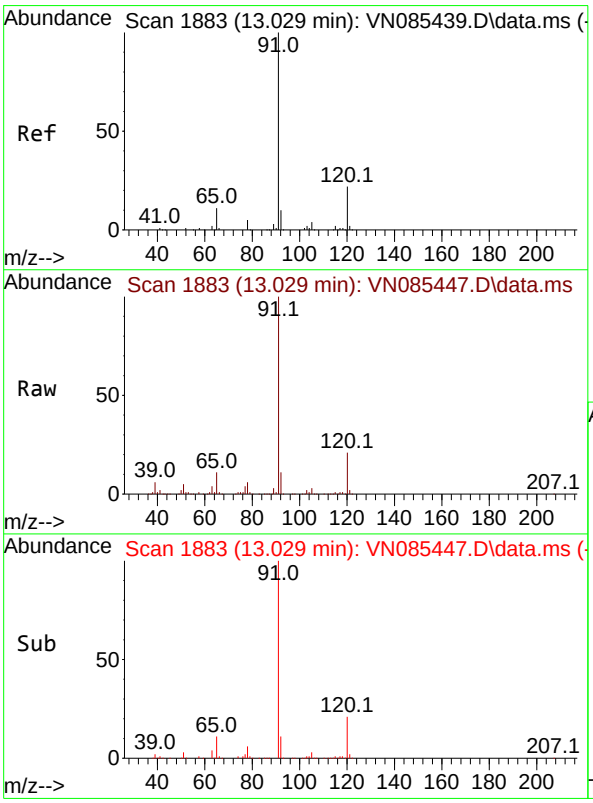
#77
Bromobenzene
Concen: 49.115 ug/l
RT: 12.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:156 Resp: 137136

Ion	Ratio	Lower	Upper
156	100		
77	220.6	114.1	342.4
158	97.1	48.9	146.8

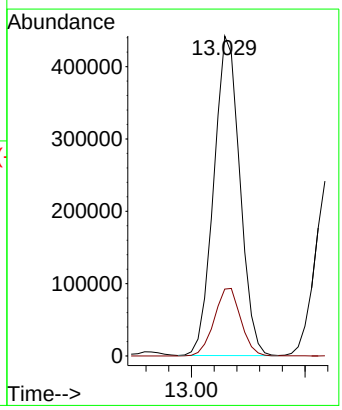


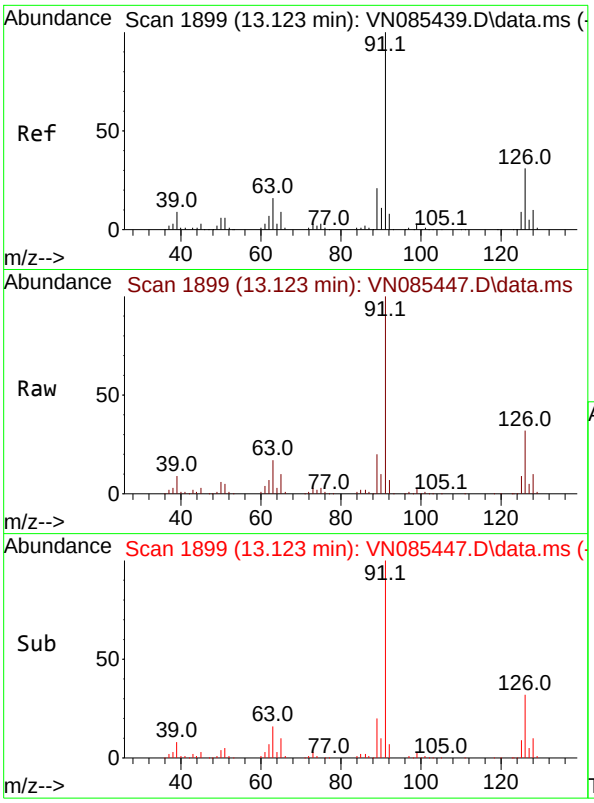


#78
n-propylbenzene
Concen: 55.640 ug/l
RT: 13.029 min Scan# 1883
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 91 Resp: 703936

Ion	Ratio	Lower	Upper
91	100		
120	21.5	10.9	32.6



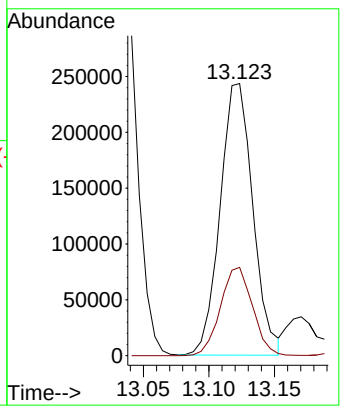


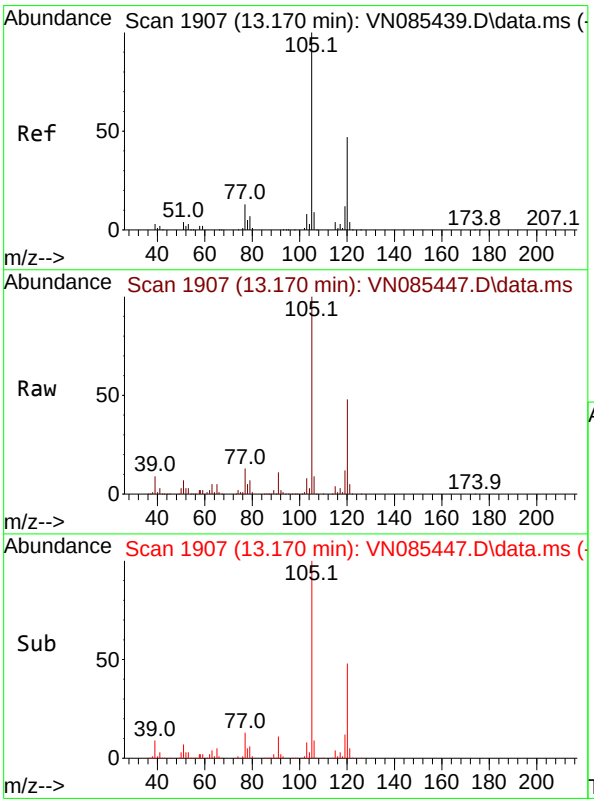
#79
2-Chlorotoluene
Concen: 51.665 ug/l
RT: 13.123 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 423036

Ion	Ratio	Lower	Upper
91	100		
126	31.9	15.7	47.1

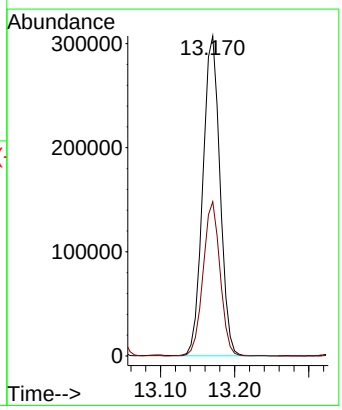


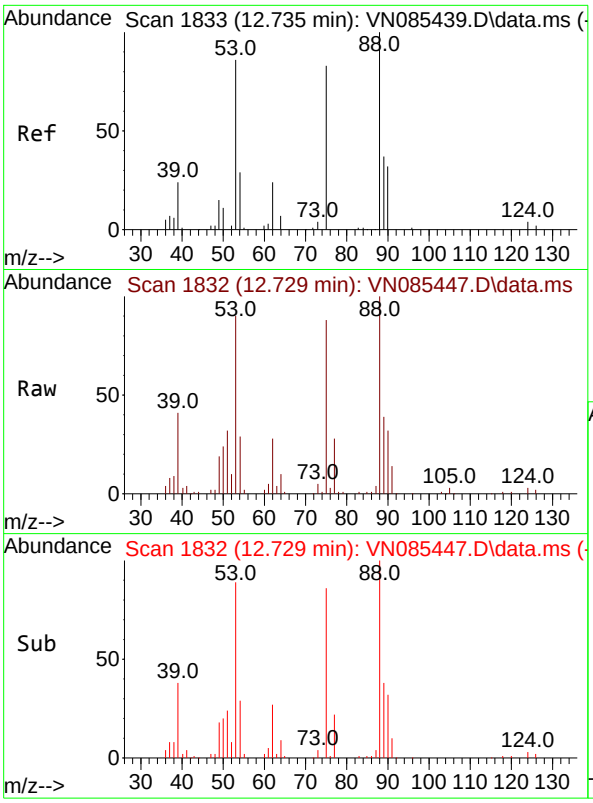


#80
1,3,5-Trimethylbenzene
Concen: 55.763 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion:105 Resp: 492256

Ion	Ratio	Lower	Upper
105	100		
120	47.9	23.9	71.7



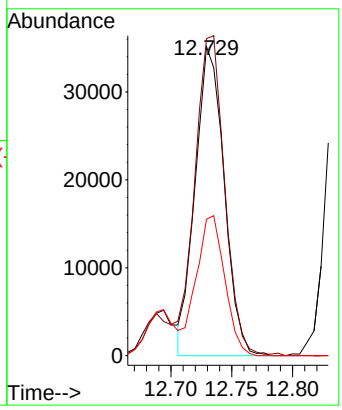


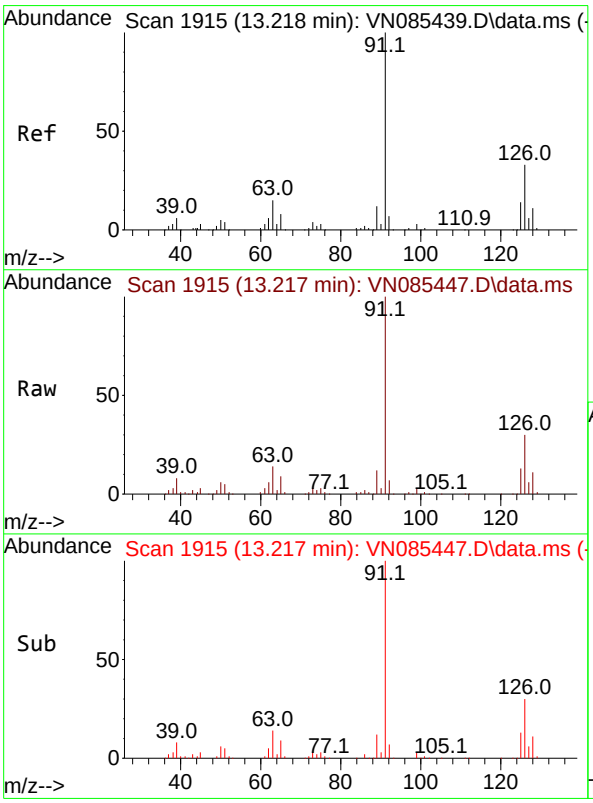
#81
trans-1,4-Dichloro-2-butene
Concen: 48.853 ug/l
RT: 12.729 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 58114

Ion	Ratio	Lower	Upper
75	100		
53	108.1	95.6	143.4
89	45.1	37.0	55.6

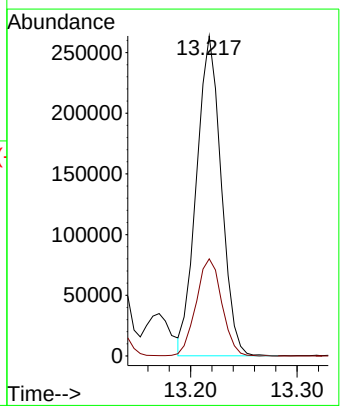


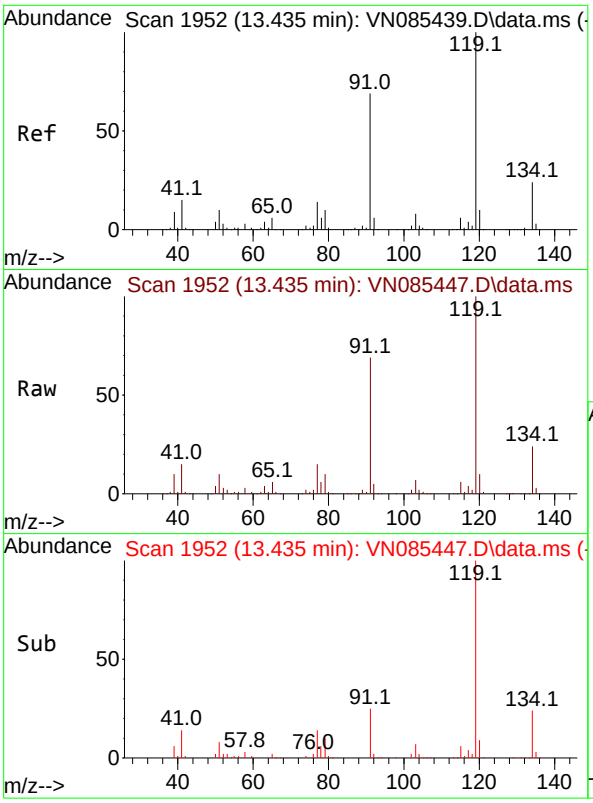


#82
4-Chlorotoluene
Concen: 52.164 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 91 Resp: 425288

Ion	Ratio	Lower	Upper
91	100		
126	31.6	15.9	47.7



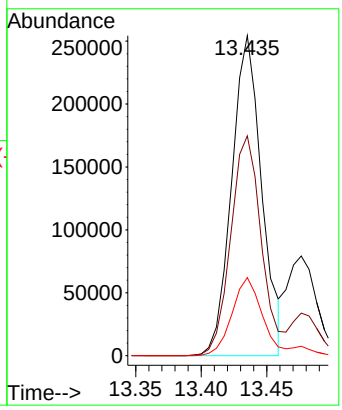


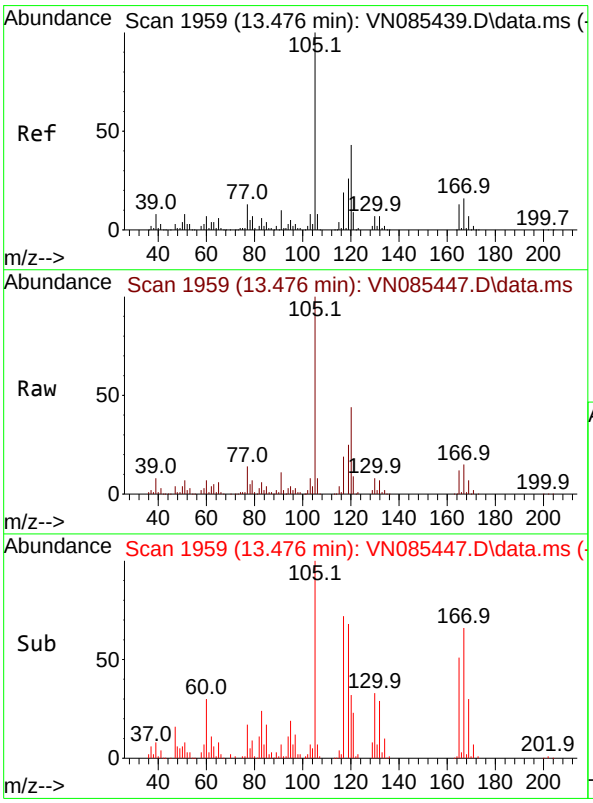
#83
tert-Butylbenzene
Concen: 54.680 ug/l
RT: 13.435 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:119 Resp: 405351

Ion	Ratio	Lower	Upper
119	100		
91	70.7	35.1	105.3
134	24.5	12.0	36.1

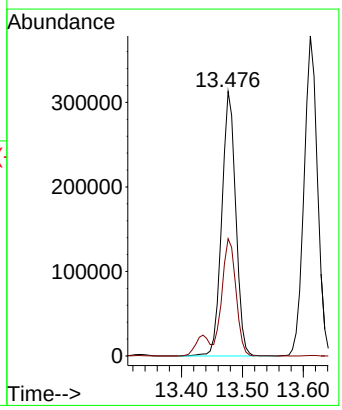


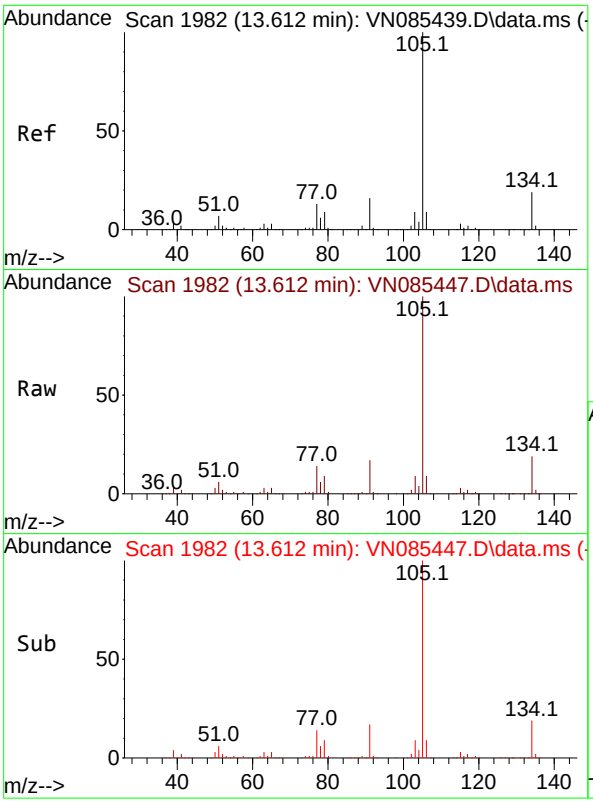


#84
1,2,4-Trimethylbenzene
Concen: 56.692 ug/l
RT: 13.476 min Scan# 1959
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion:105 Resp: 498787

Ion	Ratio	Lower	Upper
105	100		
120	45.0	21.6	65.0



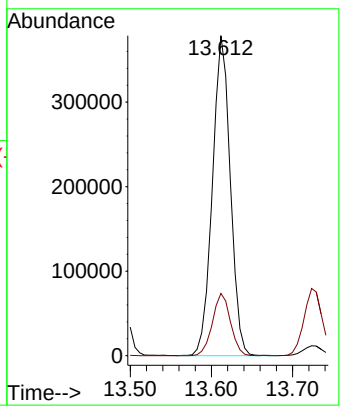


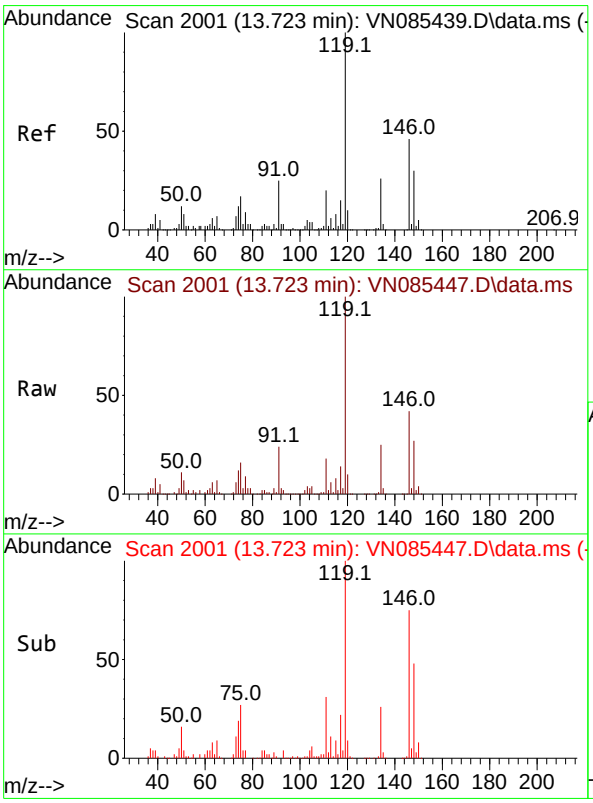
#85
sec-Butylbenzene
Concen: 56.497 ug/l
RT: 13.612 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 580478

Ion	Ratio	Lower	Upper
105	100		
134	19.6	9.7	28.9

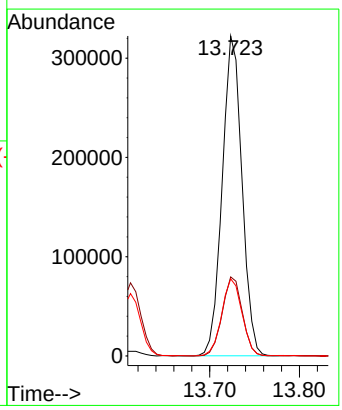


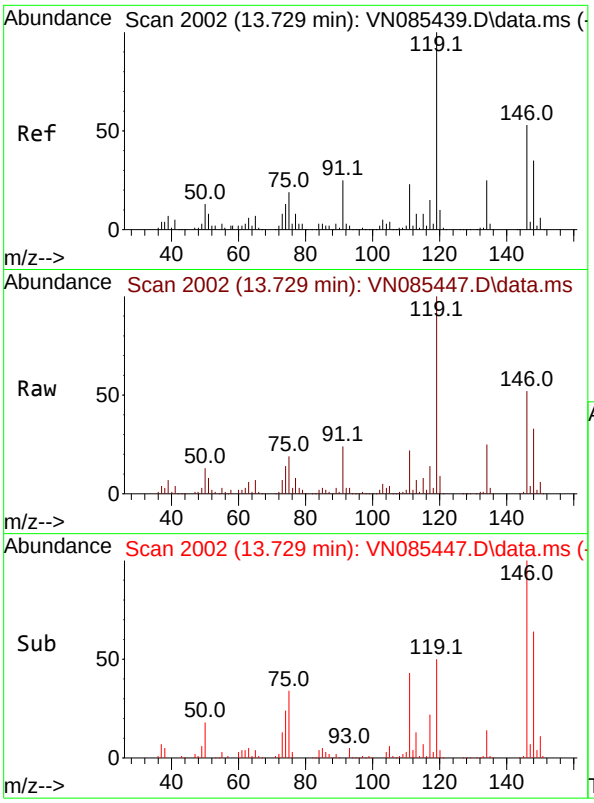


#86
p-Isopropyltoluene
Concen: 52.852 ug/l
RT: 13.723 min Scan# 2001
Delta R.T. 0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion:119 Resp: 492423

Ion	Ratio	Lower	Upper
119	100		
134	25.1	12.7	38.0
91	24.5	12.7	38.1



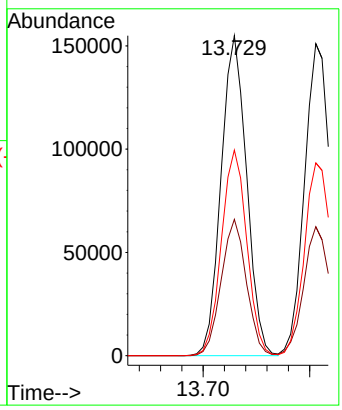


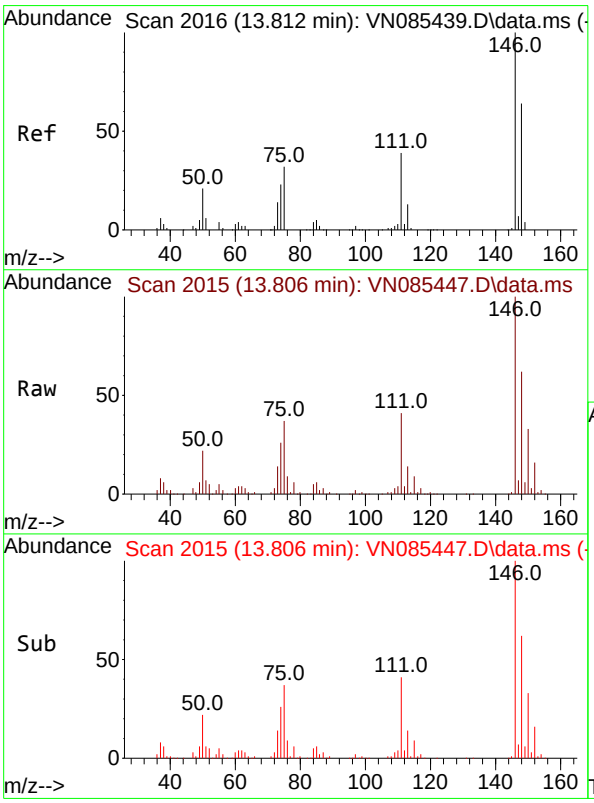
#87
1,3-Dichlorobenzene
Concen: 50.137 ug/l
RT: 13.729 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:146 Resp: 257806

Ion	Ratio	Lower	Upper
146	100		
111	42.0	21.4	64.3
148	63.9	32.3	96.9

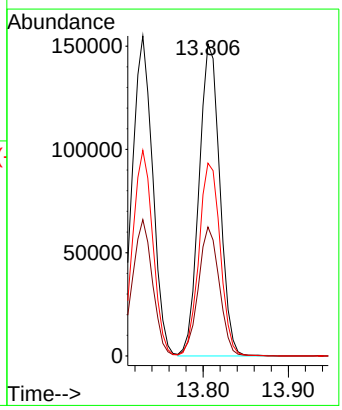


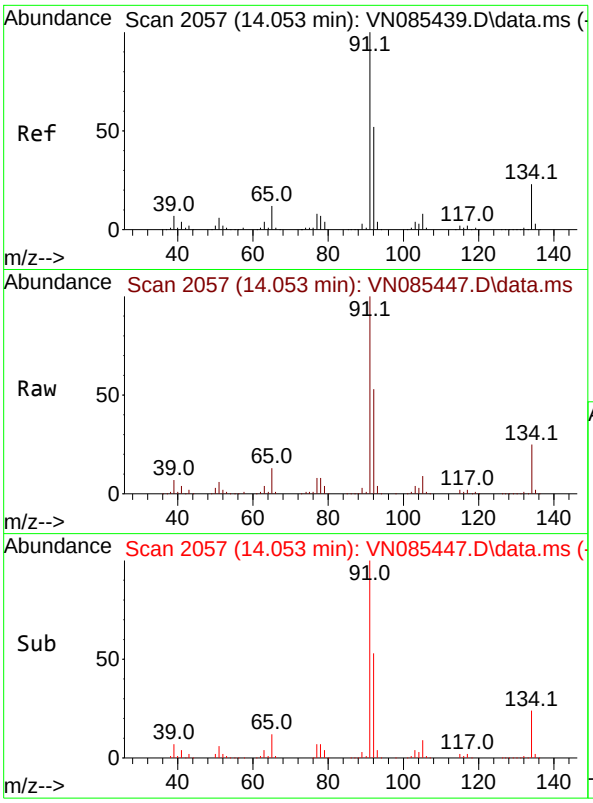


#88
1,4-Dichlorobenzene
Concen: 48.073 ug/l
RT: 13.806 min Scan# 2015
Delta R.T. -0.006 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion:146 Resp: 256221

Ion	Ratio	Lower	Upper
146	100		
111	41.8	21.3	63.7
148	63.5	32.4	97.0



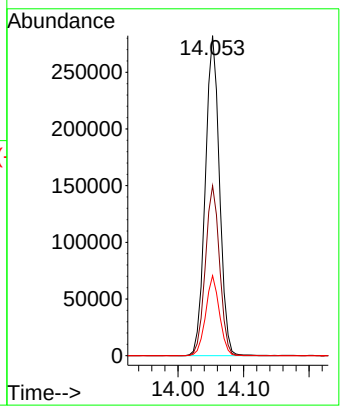


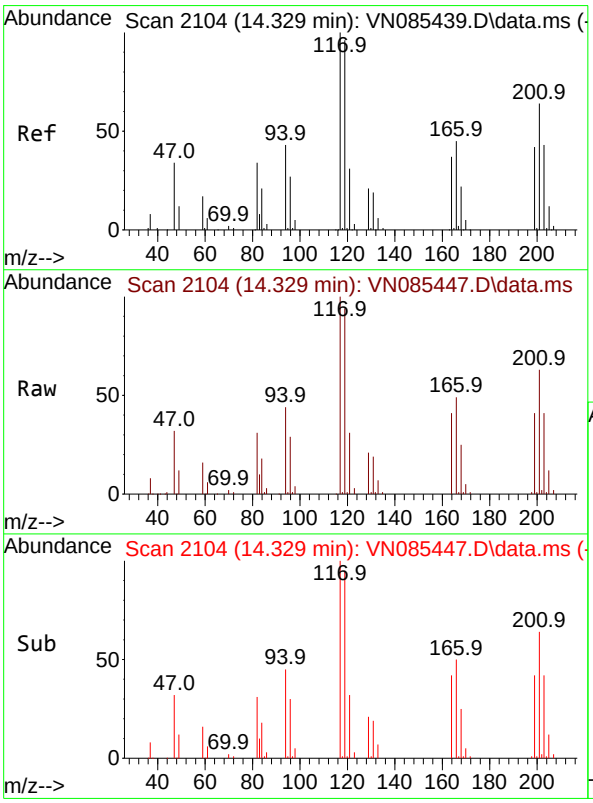
#89
n-Butylbenzene
Concen: 57.654 ug/l
RT: 14.053 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 424966

Ion	Ratio	Lower	Upper
91	100		
92	53.2	25.8	77.3
134	24.2	11.7	35.1

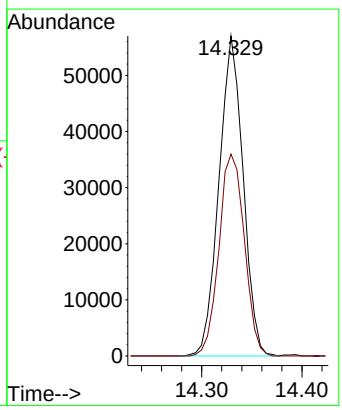


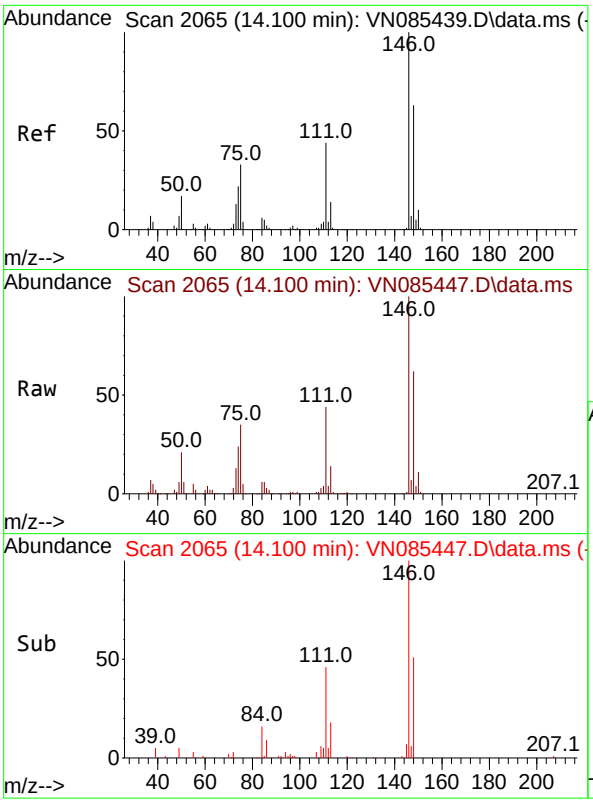


#90
Hexachloroethane
Concen: 48.675 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion:117 Resp: 95205

Ion	Ratio	Lower	Upper
117	100		
201	66.4	33.7	101.0



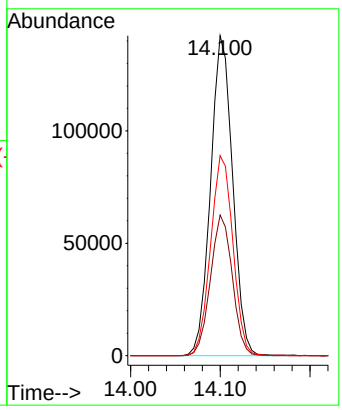


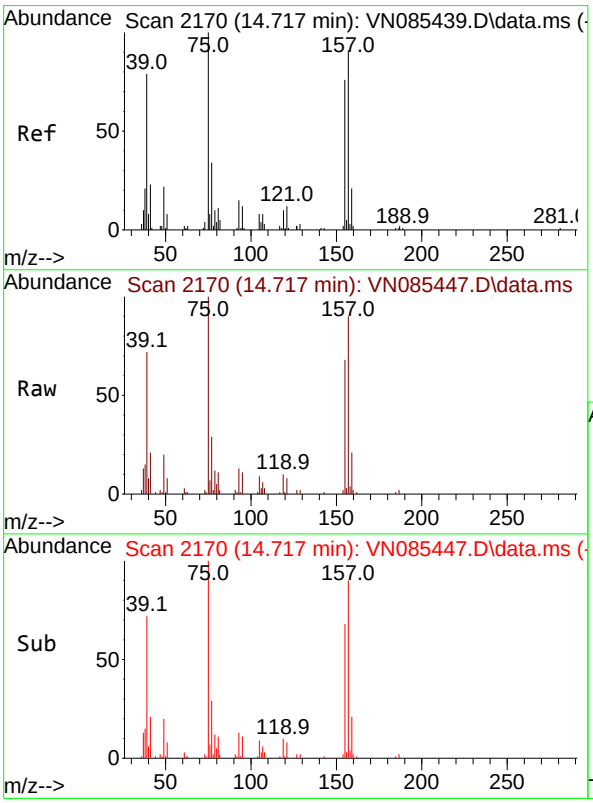
#91
1,2-Dichlorobenzene
Concen: 47.320 ug/l
RT: 14.100 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:146 Resp: 242707

Ion	Ratio	Lower	Upper
146	100		
111	43.6	21.7	65.1
148	63.3	31.4	94.2

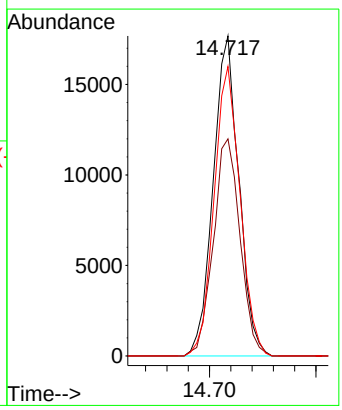


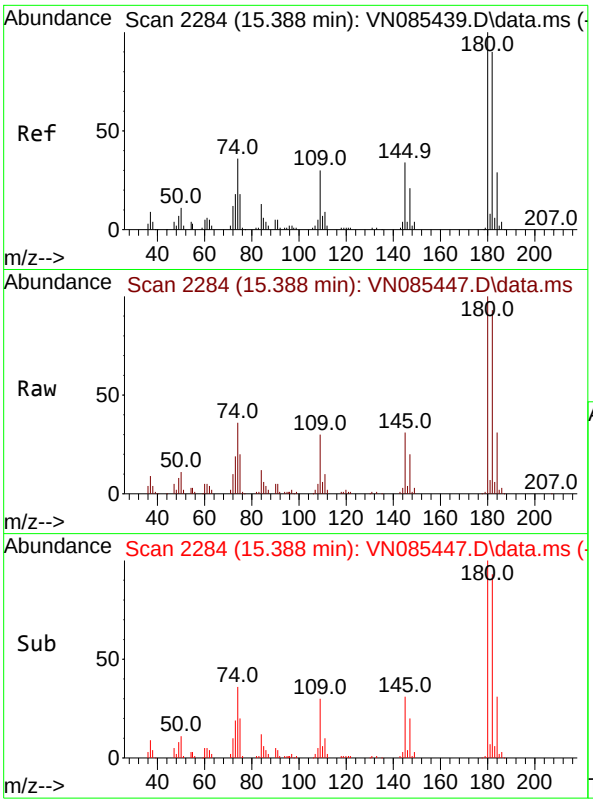


#92
1,2-Dibromo-3-Chloropropane
Concen: 42.906 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion: 75 Resp: 29578

Ion	Ratio	Lower	Upper
75	100		
155	70.6	36.4	109.2
157	91.5	45.4	136.1



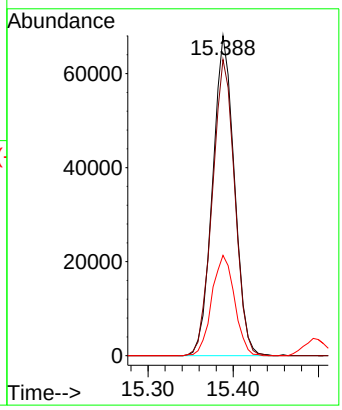


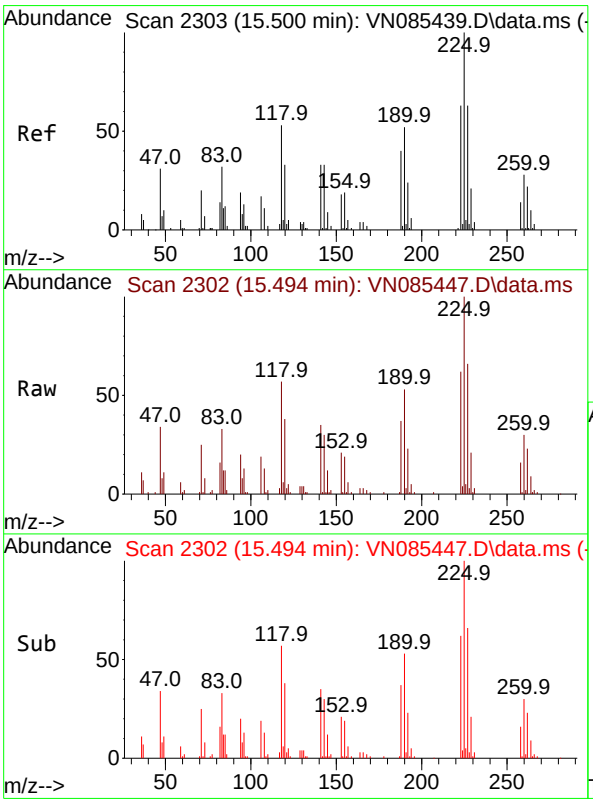
#93
1,2,4-Trichlorobenzene
Concen: 50.589 ug/l
RT: 15.388 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:180 Resp: 120596

Ion	Ratio	Lower	Upper
180	100		
182	95.1	46.8	140.3
145	32.8	16.0	48.0

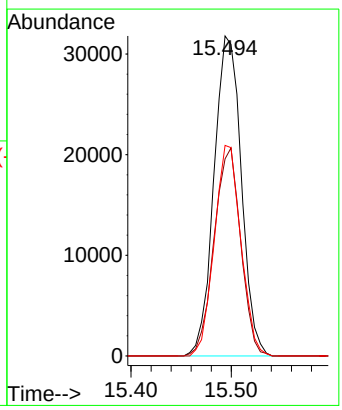


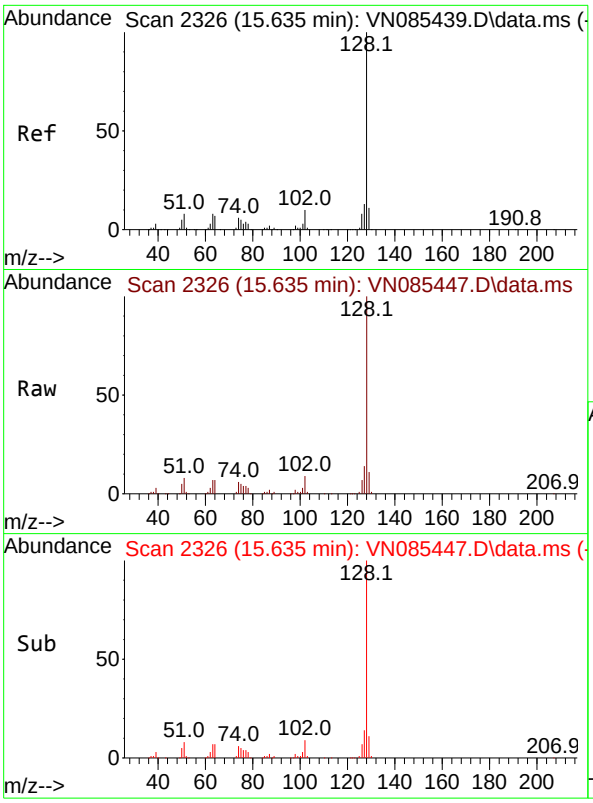


#94
Hexachlorobutadiene
Concen: 47.470 ug/l
RT: 15.494 min Scan# 2302
Delta R.T. -0.006 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion:225 Resp: 60079

Ion	Ratio	Lower	Upper
225	100		
223	63.2	30.7	92.1
227	63.9	30.9	92.5



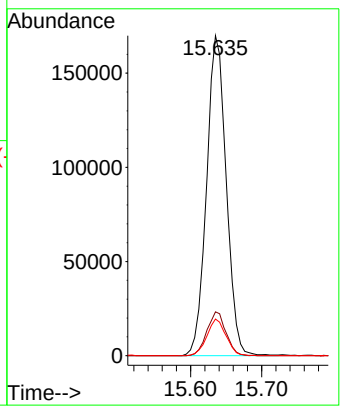


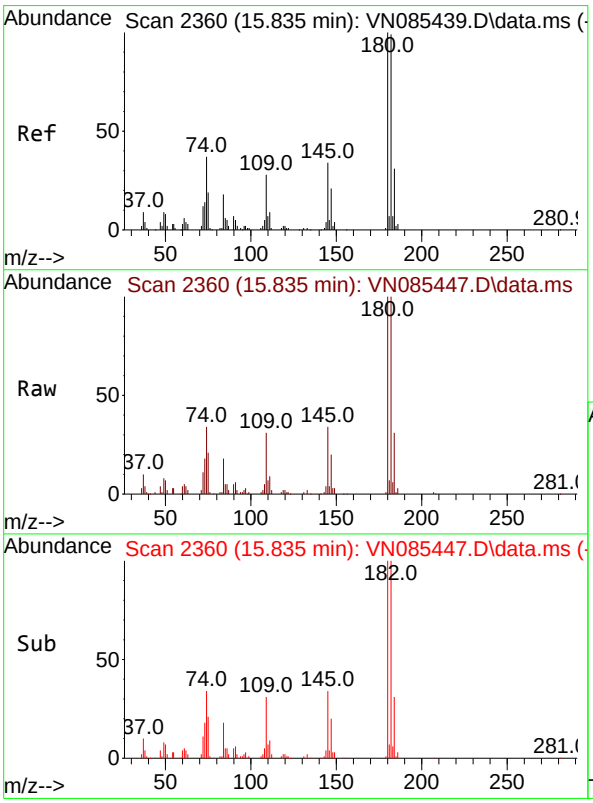
#95
Naphthalene
Concen: 46.012 ug/l
RT: 15.635 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:128 Resp: 327305

Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.6	16.0
129	11.1	8.8	13.2

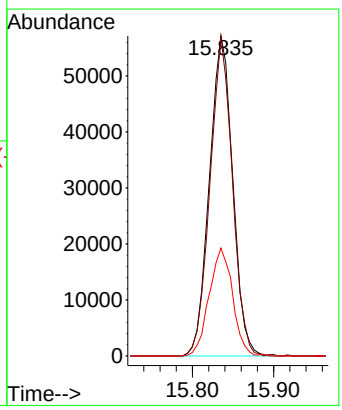




#96
1,2,3-Trichlorobenzene
Concen: 47.236 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VN085447.D
Acq: 15 Jan 2025 09:03

Tgt Ion:180 Resp: 113937

Ion	Ratio	Lower	Upper
180	100		
182	95.4	47.4	142.2
145	33.9	16.9	50.7



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085450.D
Acq On : 15 Jan 2025 10:29
Operator : JC\MD
Sample : VN0115WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Quant Time: Jan 16 00:53:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	208834	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	350038	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	301633	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	141189	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.576	65	160496	47.611	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 95.220%			
35) Dibromofluoromethane	8.165	113	117791	48.506	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 97.020%			
50) Toluene-d8	10.559	98	434650	50.376	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.760%			
62) 4-Bromofluorobenzene	12.847	95	146069	49.491	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 98.980%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	53406	18.888	ug/l	97
3) Chloromethane	2.359	50	56766	18.542	ug/l	100
4) Vinyl Chloride	2.518	62	55927	18.175	ug/l	98
5) Bromomethane	2.959	94	34404	18.509	ug/l	93
6) Chloroethane	3.130	64	34817	17.847	ug/l	99
7) Trichlorofluoromethane	3.500	101	83471	18.695	ug/l	98
8) Diethyl Ether	3.959	74	26372	17.097	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.377	101	47665	18.954	ug/l	98
10) Methyl Iodide	4.589	142	52836	18.346	ug/l	94
11) Tert butyl alcohol	5.500	59	34842	90.264	ug/l	98
12) 1,1-Dichloroethene	4.347	96	41789	18.645	ug/l	97
13) Acrolein	4.177	56	57066	108.299	ug/l	99
14) Allyl chloride	5.024	41	64682	17.785	ug/l	98
15) Acrylonitrile	5.718	53	111192	90.690	ug/l	98
16) Acetone	4.424	43	95481	87.661	ug/l	97
17) Carbon Disulfide	4.712	76	120042	17.395	ug/l	99
18) Methyl Acetate	5.024	43	59306	17.906	ug/l	100
19) Methyl tert-butyl Ether	5.794	73	136088	18.700	ug/l	100
20) Methylene Chloride	5.277	84	48956	18.156	ug/l	98
21) trans-1,2-Dichloroethene	5.788	96	44485	18.572	ug/l	95
22) Diisopropyl ether	6.665	45	156113	19.339	ug/l	99
23) Vinyl Acetate	6.600	43	540854	95.740	ug/l	100
24) 1,1-Dichloroethane	6.565	63	91537	18.597	ug/l	99
25) 2-Butanone	7.477	43	146109	91.155	ug/l	99
26) 2,2-Dichloropropane	7.488	77	81881	20.576	ug/l	99
27) cis-1,2-Dichloroethene	7.482	96	52626	18.654	ug/l	99
28) Bromochloromethane	7.806	49	39408	17.209	ug/l	99
29) Tetrahydrofuran	7.835	42	97170	95.619	ug/l	98
30) Chloroform	7.959	83	93604	18.400	ug/l	100
31) Cyclohexane	8.259	56	79144	18.500	ug/l	95
32) 1,1,1-Trichloroethane	8.159	97	83081	18.618	ug/l	97
36) 1,1-Dichloropropene	8.365	75	63125	18.521	ug/l	99
37) Ethyl Acetate	7.553	43	62310	18.113	ug/l	97
38) Carbon Tetrachloride	8.359	117	74287	19.039	ug/l	97
39) Methylcyclohexane	9.594	83	63410	19.799	ug/l	99
40) Benzene	8.600	78	196843	19.222	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085450.D
Acq On : 15 Jan 2025 10:29
Operator : JC\MD
Sample : VN0115WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Quant Time: Jan 16 00:53:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.771	41	34152	19.082	ug/l		96
42) 1,2-Dichloroethane	8.665	62	72644	18.835	ug/l		100
43) Isopropyl Acetate	8.682	43	99545	18.059	ug/l		100
44) Trichloroethene	9.347	130	45825	19.224	ug/l		98
45) 1,2-Dichloropropane	9.618	63	49517	18.931	ug/l		96
46) Dibromomethane	9.706	93	34976	18.531	ug/l		99
47) Bromodichloromethane	9.882	83	75979	19.759	ug/l		96
48) Methyl methacrylate	9.676	41	47488	19.143	ug/l		98
49) 1,4-Dioxane	9.694	88	14354	343.615	ug/l		95
51) 4-Methyl-2-Pentanone	10.441	43	304924	95.328	ug/l		100
52) Toluene	10.629	92	118985	20.053	ug/l		98
53) t-1,3-Dichloropropene	10.829	75	69201	19.044	ug/l		96
54) cis-1,3-Dichloropropene	10.306	75	77467	19.958	ug/l		97
55) 1,1,2-Trichloroethane	11.012	97	44394	18.906	ug/l		99
56) Ethyl methacrylate	10.870	69	63560	17.379	ug/l		99
57) 1,3-Dichloropropane	11.159	76	78133	19.136	ug/l		99
58) 2-Chloroethyl Vinyl ether	10.153	63	148732	99.810	ug/l		99
59) 2-Hexanone	11.194	43	217128	96.472	ug/l		98
60) Dibromochloromethane	11.353	129	54139	19.097	ug/l		99
61) 1,2-Dibromoethane	11.465	107	44253	18.932	ug/l		98
64) Tetrachloroethene	11.100	164	41267	20.068	ug/l		96
65) Chlorobenzene	11.888	112	127557	19.304	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.959	131	45645	18.821	ug/l		100
67) Ethyl Benzene	11.959	91	215448	20.019	ug/l		95
68) m/p-Xylenes	12.065	106	164329	41.314	ug/l		100
69) o-Xylene	12.394	106	76723	20.184	ug/l		98
70) Styrene	12.406	104	128074	20.358	ug/l		100
71) Bromoform	12.570	173	34422	19.837	ug/l	#	99
73) Isopropylbenzene	12.694	105	196948	20.668	ug/l		100
74) N-amyl acetate	12.488	43	80290	18.746	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.935	83	62306	18.510	ug/l		98
76) 1,2,3-Trichloropropane	12.988	75	82085	28.604	ug/l		48
77) Bromobenzene	12.976	156	48006	19.283	ug/l		98
78) n-propylbenzene	13.029	91	234178	20.759	ug/l		99
79) 2-Chlorotoluene	13.123	91	148584	20.351	ug/l		99
80) 1,3,5-Trimethylbenzene	13.170	105	167516	21.282	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.729	75	23140	21.817	ug/l		91
82) 4-Chlorotoluene	13.217	91	148888	20.481	ug/l		100
83) tert-Butylbenzene	13.435	119	137144	20.748	ug/l		99
84) 1,2,4-Trimethylbenzene	13.476	105	168611	21.493	ug/l		97
85) sec-Butylbenzene	13.611	105	193667	21.140	ug/l		99
86) p-Isopropyltoluene	13.729	119	158593	20.730	ug/l		98
87) 1,3-Dichlorobenzene	13.729	146	89998	19.629	ug/l		98
88) 1,4-Dichlorobenzene	13.806	146	88968	18.721	ug/l		99
89) n-Butylbenzene	14.053	91	132410	20.147	ug/l		99
90) Hexachloroethane	14.329	117	32875	18.850	ug/l		100
91) 1,2-Dichlorobenzene	14.100	146	86586	18.933	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	10904	17.740	ug/l		96
93) 1,2,4-Trichlorobenzene	15.388	180	38461	18.095	ug/l		98
94) Hexachlorobutadiene	15.500	225	21171	18.761	ug/l		98
95) Naphthalene	15.635	128	104770	16.518	ug/l		100
96) 1,2,3-Trichlorobenzene	15.835	180	38077	17.704	ug/l		99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085450.D
Acq On : 15 Jan 2025 10:29
Operator : JC\MD
Sample : VN0115WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Quant Time: Jan 16 00:53:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

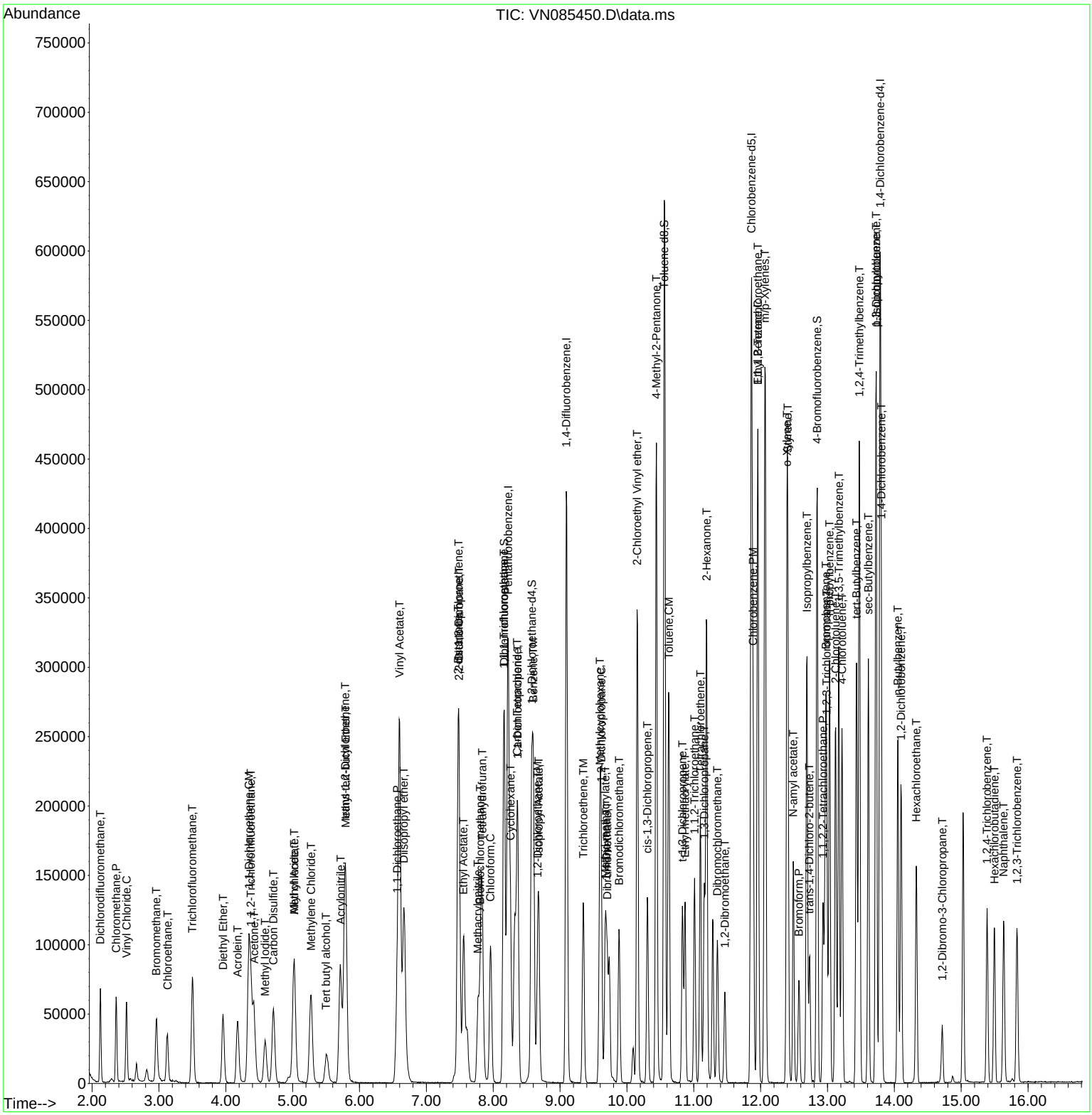
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

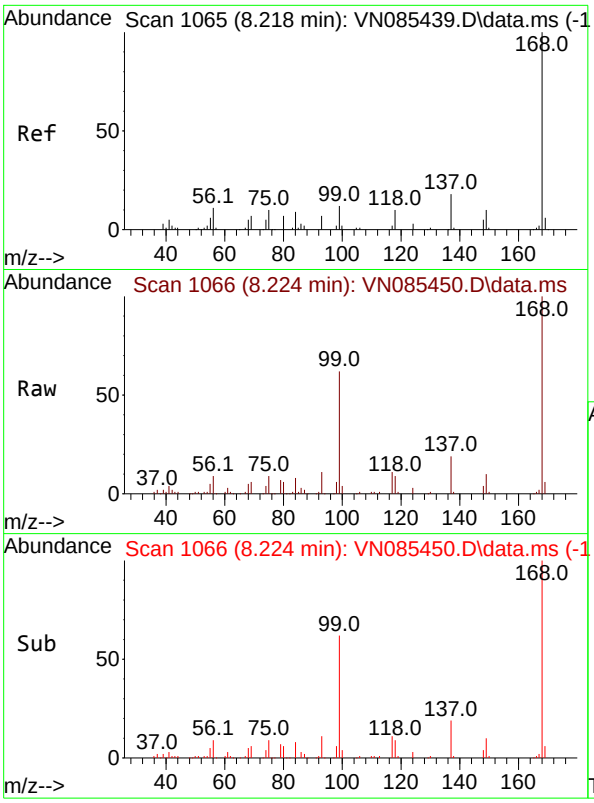
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085450.D
Acq On : 15 Jan 2025 10:29
Operator : JC\MD
Sample : VN0115WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Quant Time: Jan 16 00:53:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration



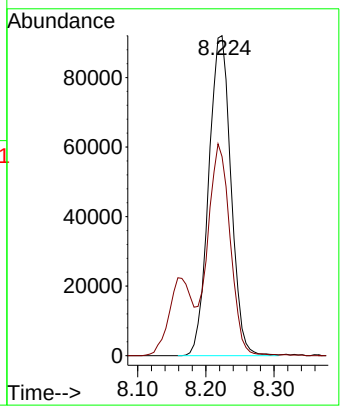


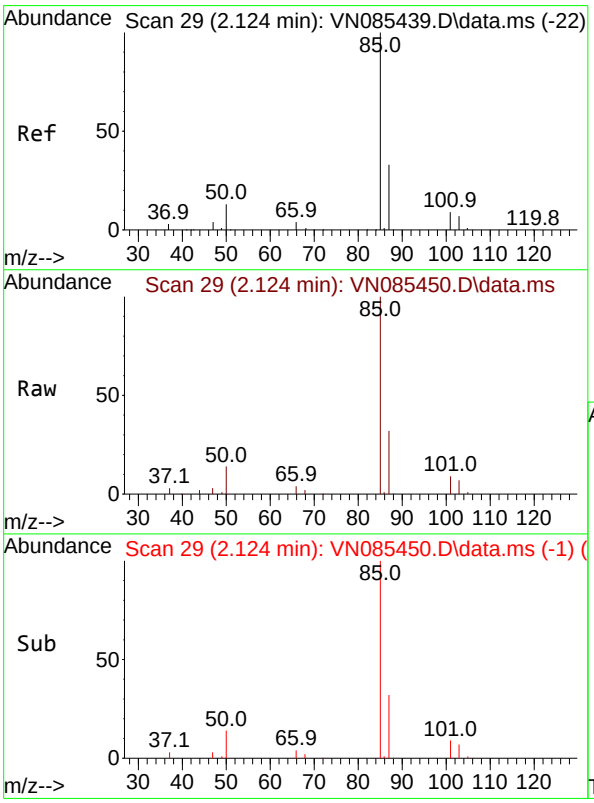
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Tgt Ion:168 Resp: 208834

Ion	Ratio	Lower	Upper
168	100		
99	62.0	53.6	80.4

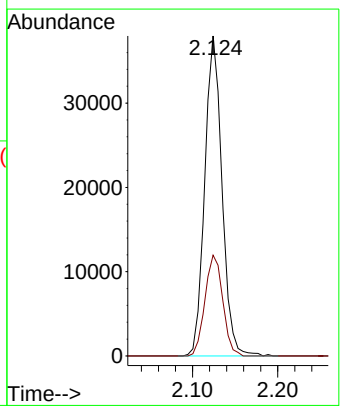


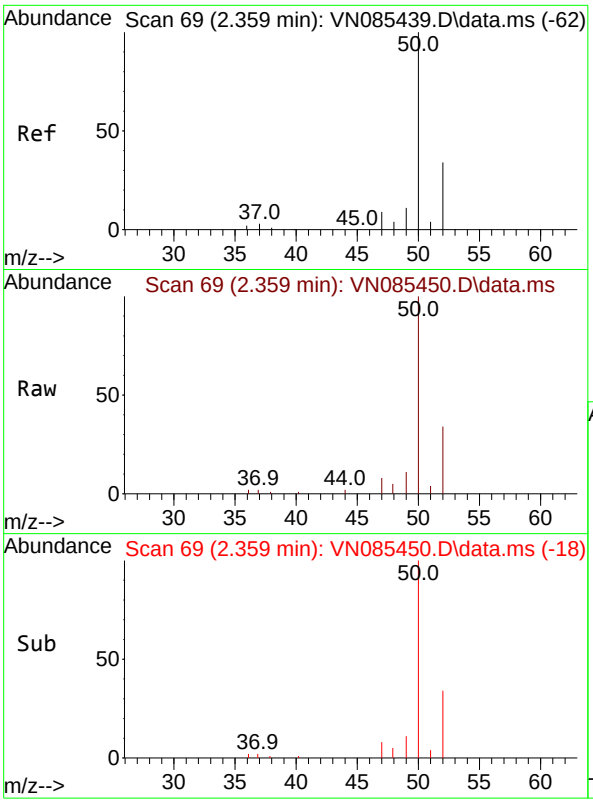


#2
Dichlorodifluoromethane
Concen: 18.888 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 85 Resp: 53406

Ion	Ratio	Lower	Upper
85	100		
87	31.5	16.7	50.1



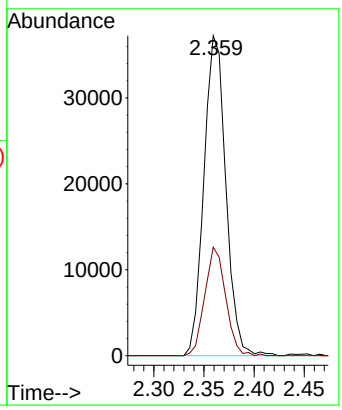


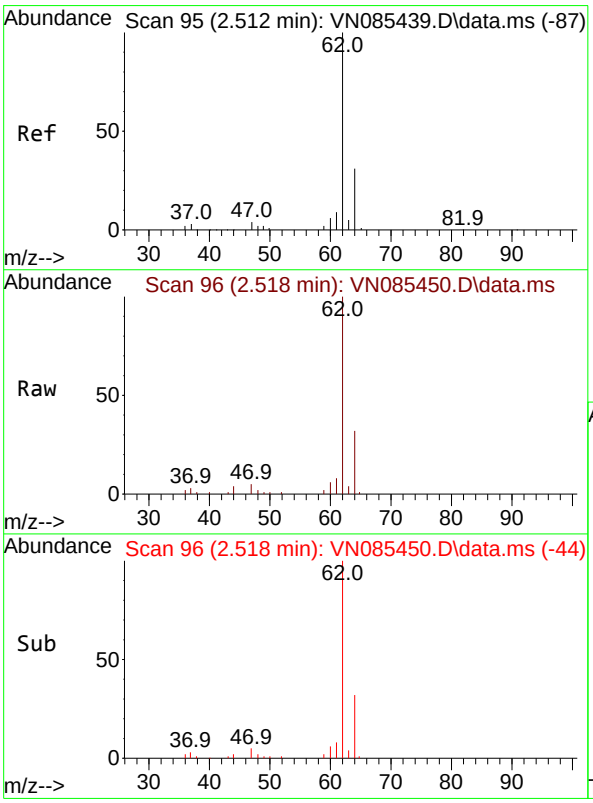
#3
Chloromethane
Concen: 18.542 ug/l
RT: 2.359 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Tgt Ion: 50 Resp: 56766

Ion	Ratio	Lower	Upper
50	100		
52	33.9	27.0	40.6

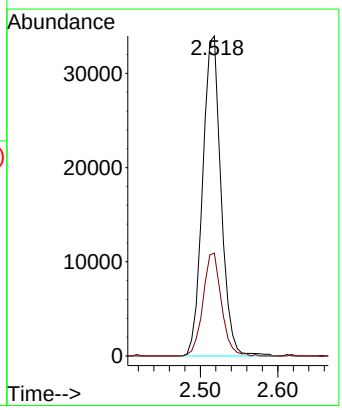


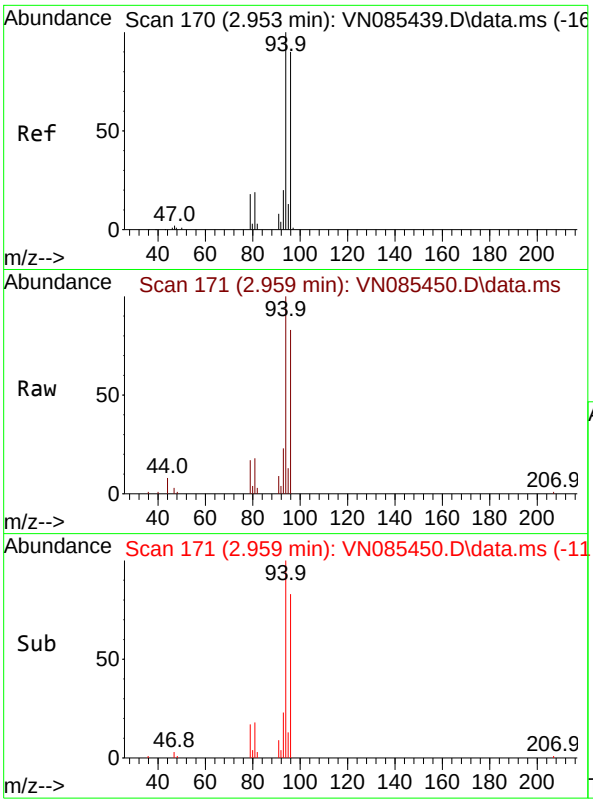


#4
Vinyl Chloride
Concen: 18.175 ug/l
RT: 2.518 min Scan# 96
Delta R.T. 0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 62 Resp: 55927

Ion	Ratio	Lower	Upper
62	100		
64	32.2	24.8	37.2



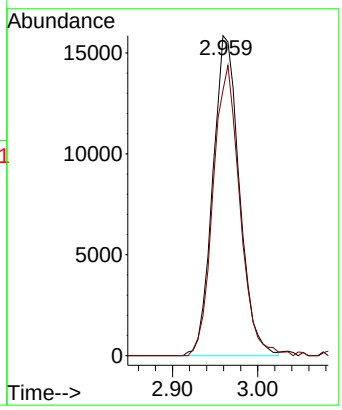


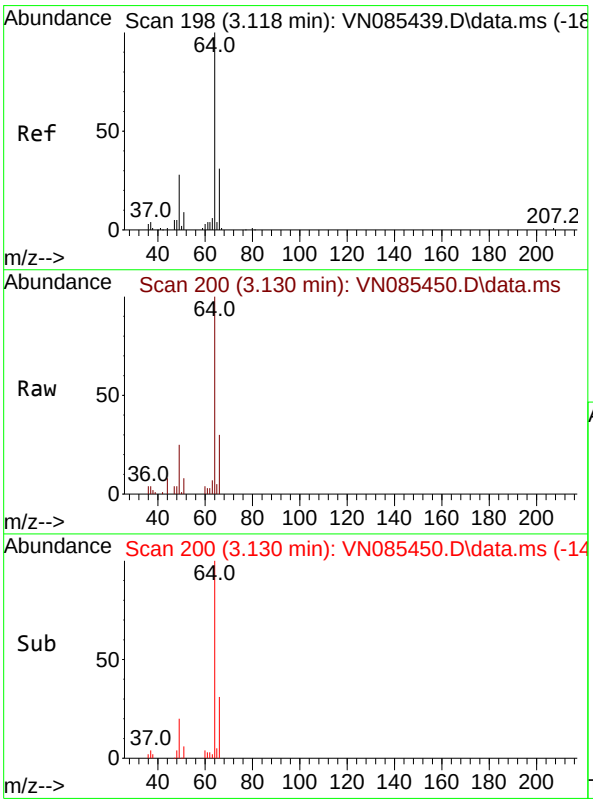
#5
Bromomethane
Concen: 18.509 ug/l
RT: 2.959 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Tgt Ion: 94 Resp: 34404

Ion	Ratio	Lower	Upper
94	100		
96	83.0	71.8	107.6

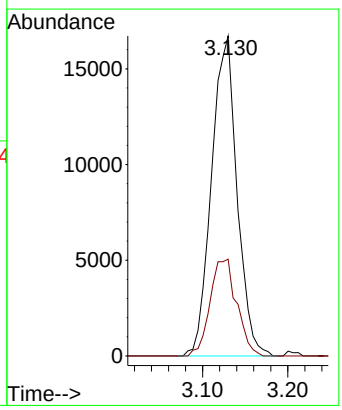


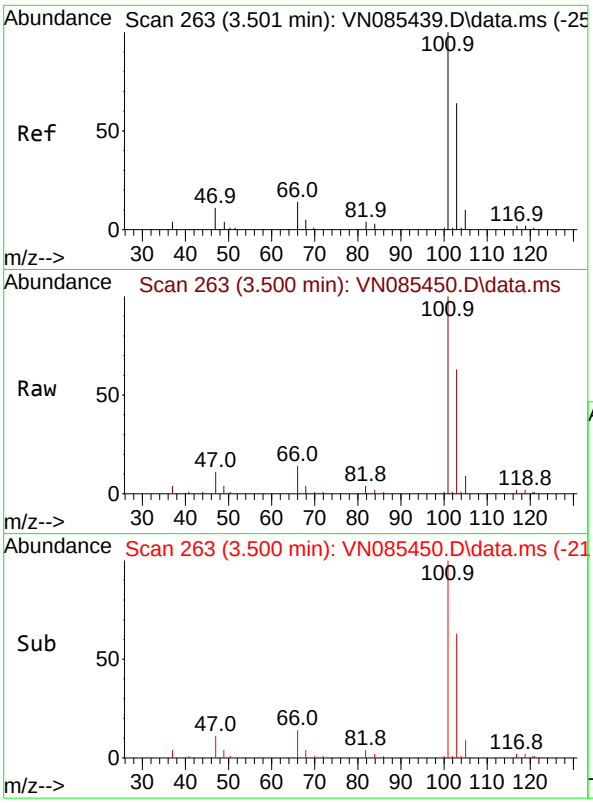


#6
Chloroethane
Concen: 17.847 ug/l
RT: 3.130 min Scan# 200
Delta R.T. 0.012 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 64 Resp: 34817

Ion	Ratio	Lower	Upper
64	100		
66	30.2	24.6	36.8



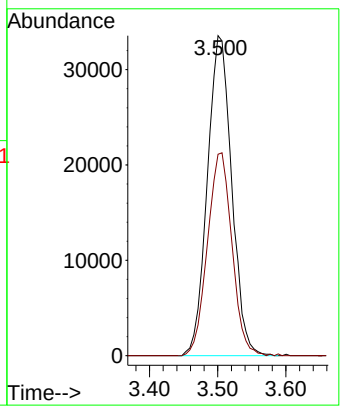


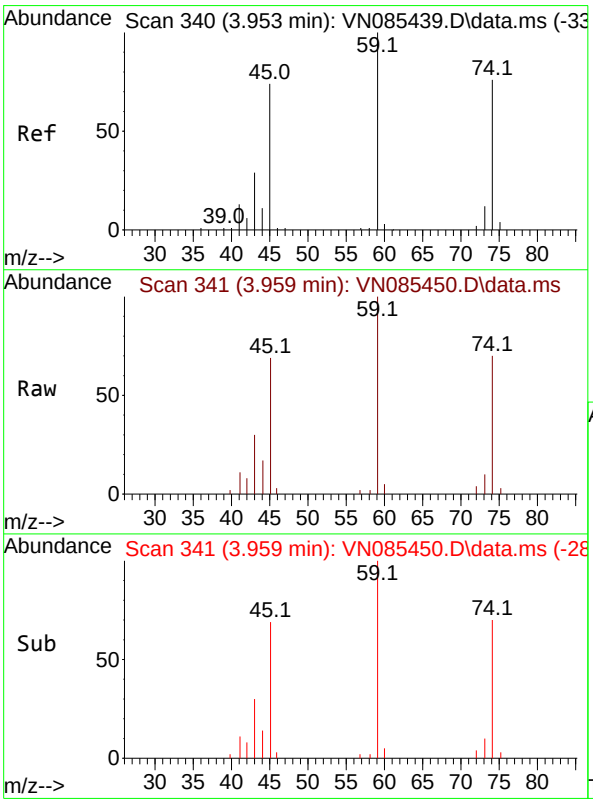
#7
Trichlorofluoromethane
Concen: 18.695 ug/l
RT: 3.500 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Tgt Ion:101 Resp: 83471

Ion	Ratio	Lower	Upper
101	100		
103	62.9	51.4	77.2

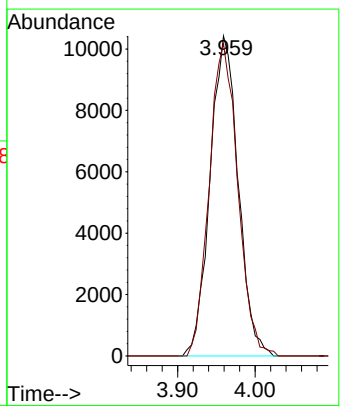


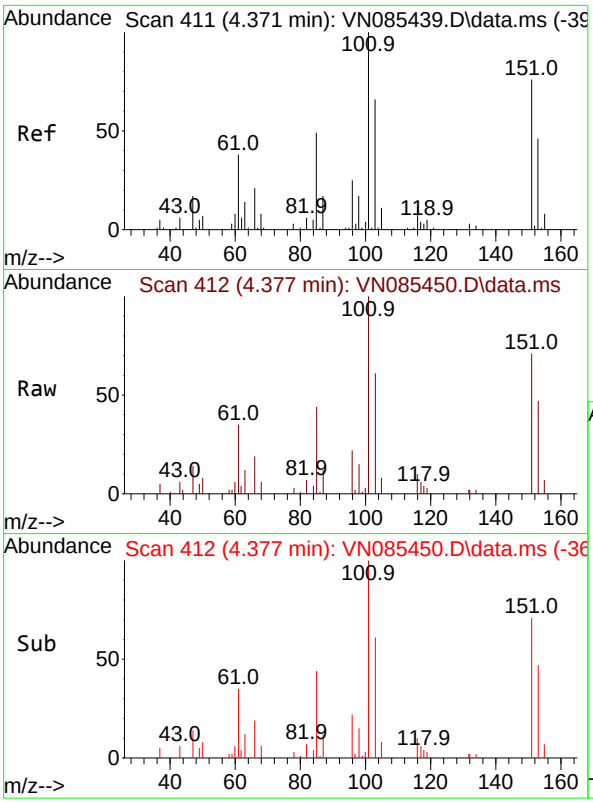


#8
Diethyl Ether
Concen: 17.097 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 74 Resp: 26372

Ion	Ratio	Lower	Upper
74	100		
45	98.9	49.7	149.1



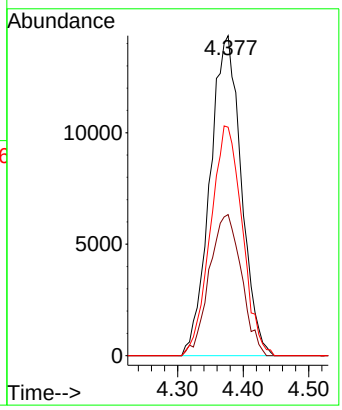


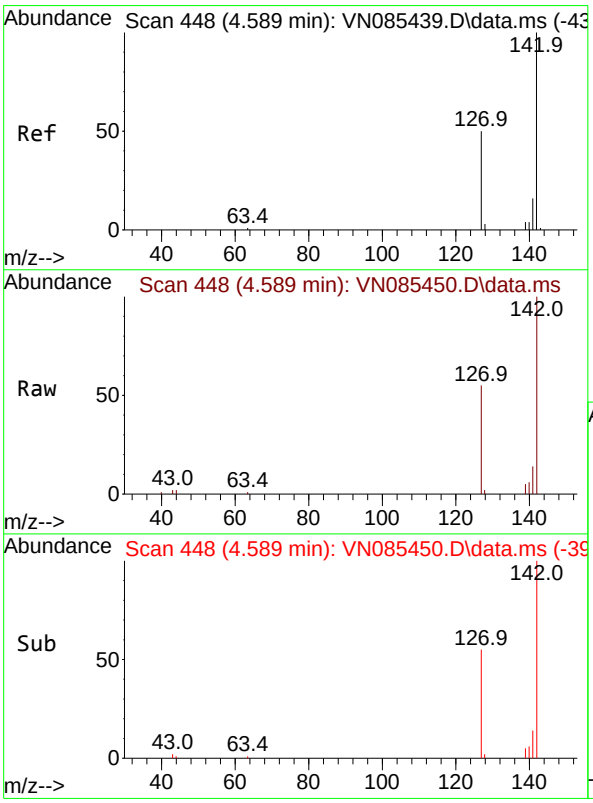
#9
1,1,2-Trichlorotrifluoroethane
Concen: 18.954 ug/l
RT: 4.377 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Tgt Ion:101 Resp: 47665

Ion	Ratio	Lower	Upper
101	100		
85	45.2	37.8	56.8
151	72.6	58.8	88.2

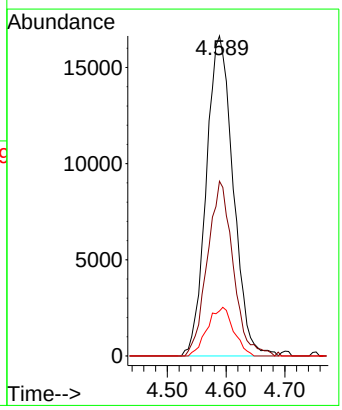


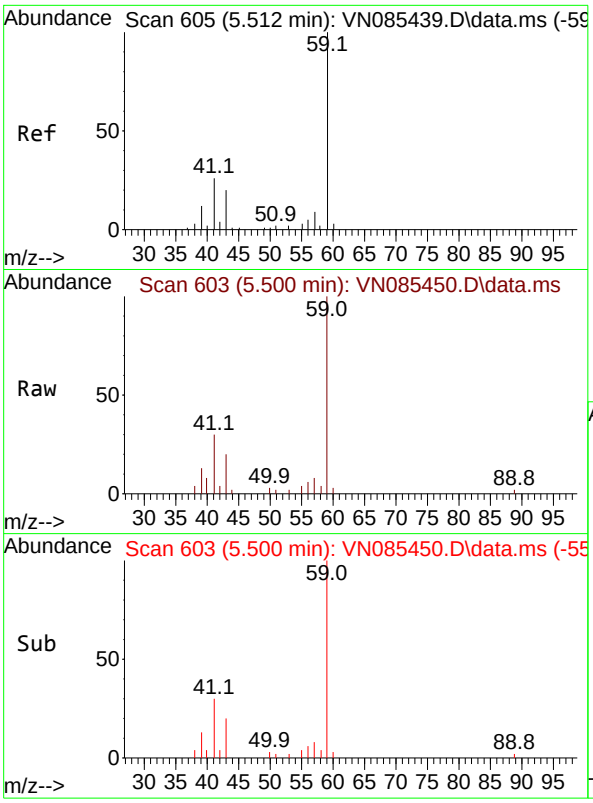


#10
Methyl Iodide
Concen: 18.346 ug/l
RT: 4.589 min Scan# 448
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion:142 Resp: 52836

Ion	Ratio	Lower	Upper
142	100		
127	54.6	40.3	60.5
141	14.1	12.8	19.2



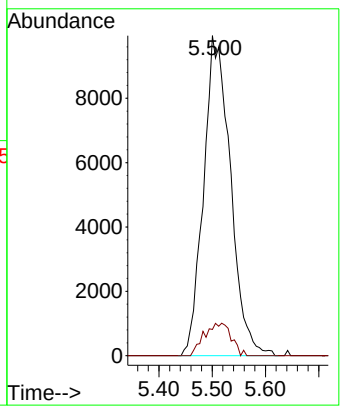


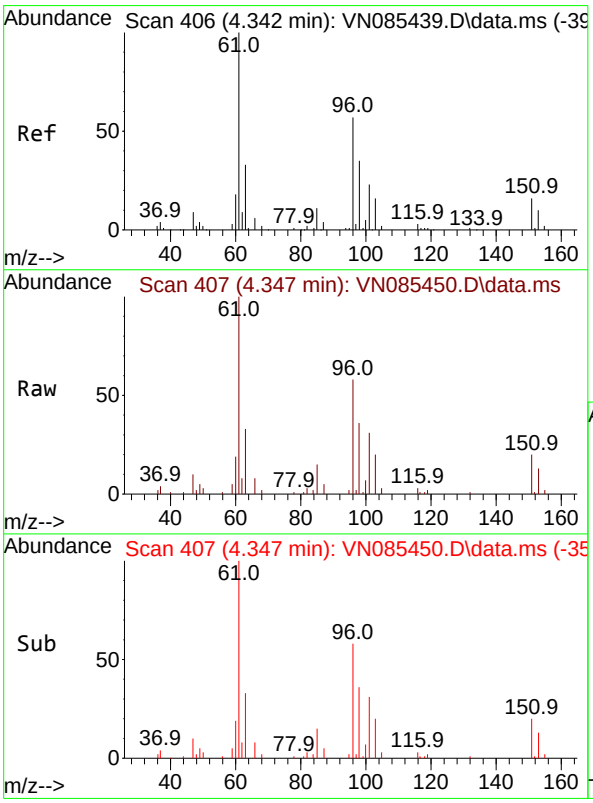
#11
Tert butyl alcohol
Concen: 90.264 ug/l
RT: 5.500 min Scan# 6
Delta R.T. -0.012 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Tgt Ion: 59 Resp: 34842

Ion	Ratio	Lower	Upper
59	100		
57	10.2	8.6	13.0

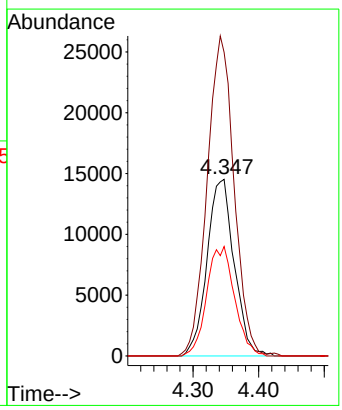


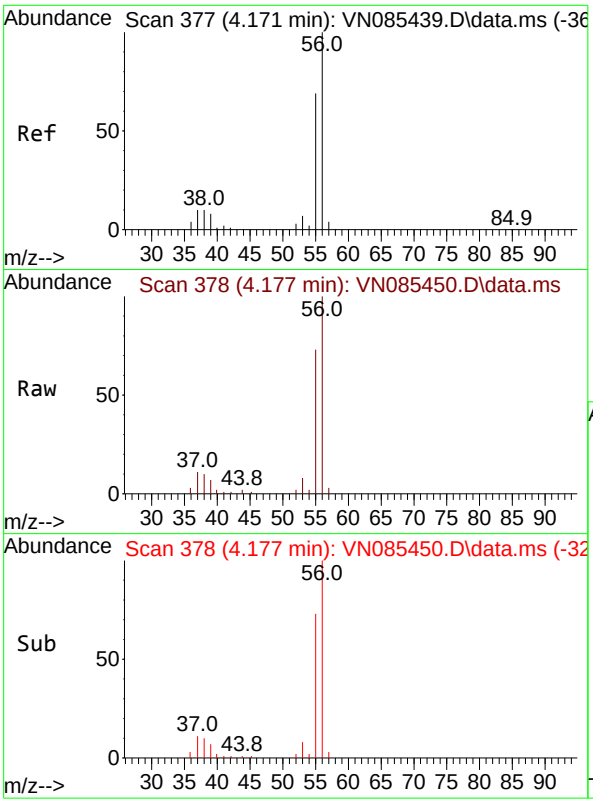


#12
1,1-Dichloroethene
Concen: 18.645 ug/l
RT: 4.347 min Scan# 407
Delta R.T. 0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 96 Resp: 41789

Ion	Ratio	Lower	Upper
96	100		
61	171.8	141.0	211.4
98	62.0	49.0	73.6



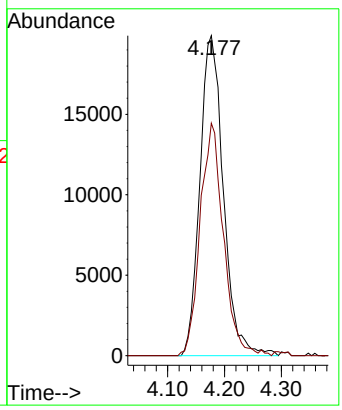


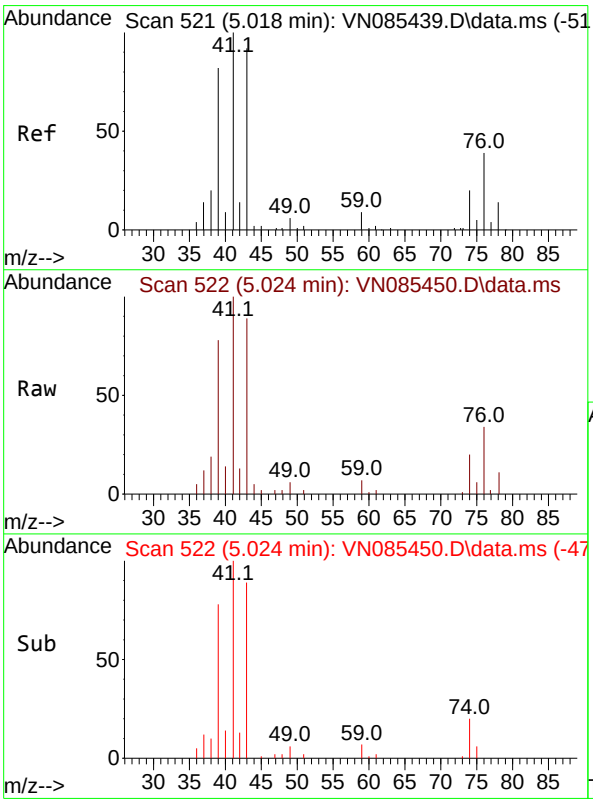
#13
Acrolein
Concen: 108.299 ug/l
RT: 4.177 min Scan# 3
Delta R.T. 0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Tgt Ion: 56 Resp: 57066

Ion	Ratio	Lower	Upper
56	100		
55	71.4	56.3	84.5

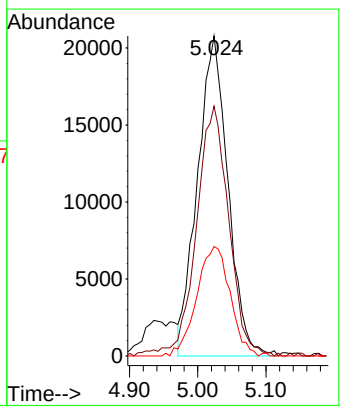


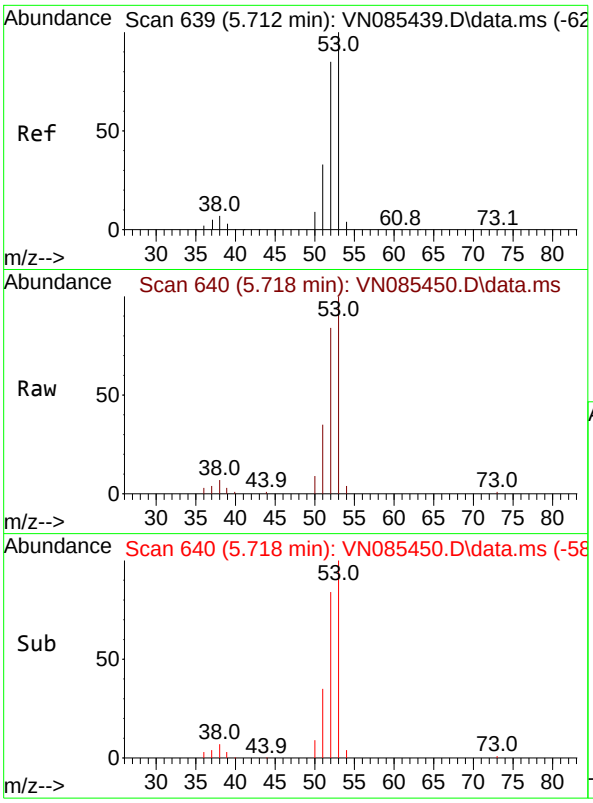


#14
Allyl chloride
Concen: 17.785 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 41 Resp: 64682

Ion	Ratio	Lower	Upper
41	100		
39	83.1	64.4	96.6
76	37.5	30.5	45.7



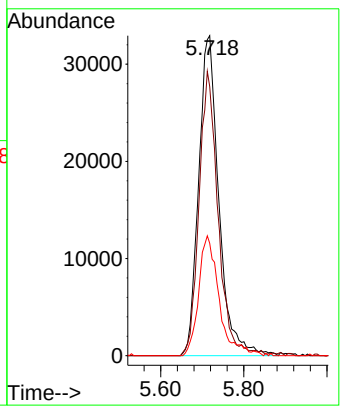


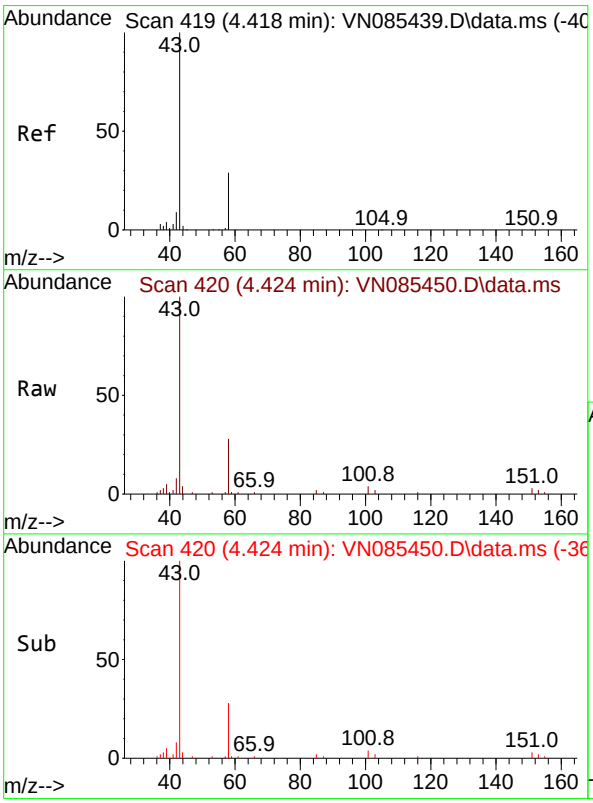
#15
Acrylonitrile
Concen: 90.690 ug/l
RT: 5.718 min Scan# 64
Delta R.T. 0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Tgt Ion: 53 Resp: 111192

Ion	Ratio	Lower	Upper
53	100		
52	83.8	65.5	98.3
51	37.5	29.8	44.8

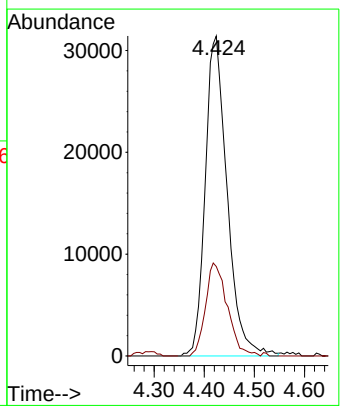


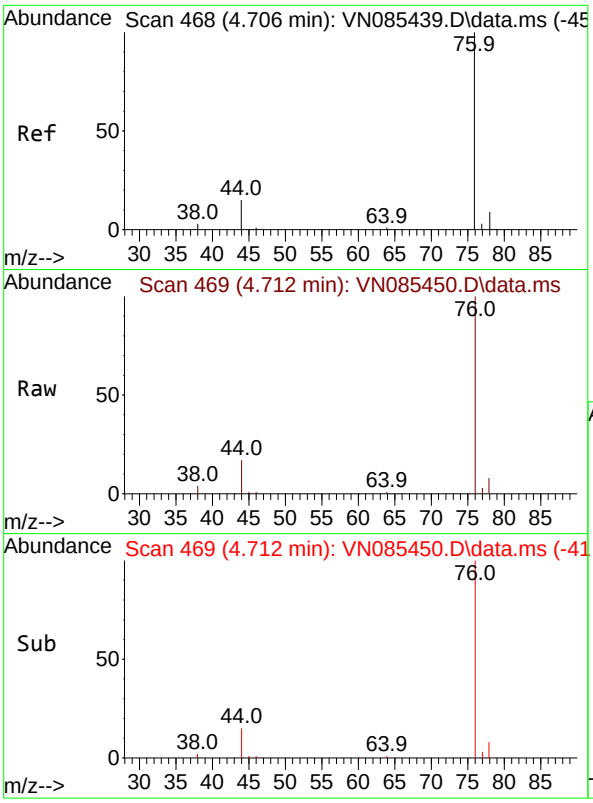


#16
Acetone
Concen: 87.661 ug/l
RT: 4.424 min Scan# 420
Delta R.T. 0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 43 Resp: 95481

Ion	Ratio	Lower	Upper
43	100		
58	28.0	23.8	35.6



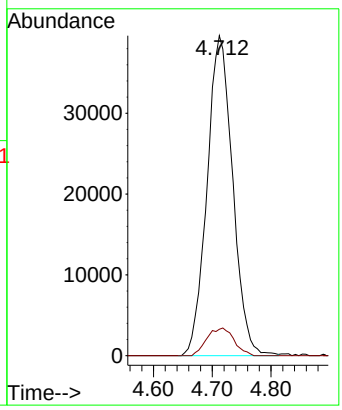


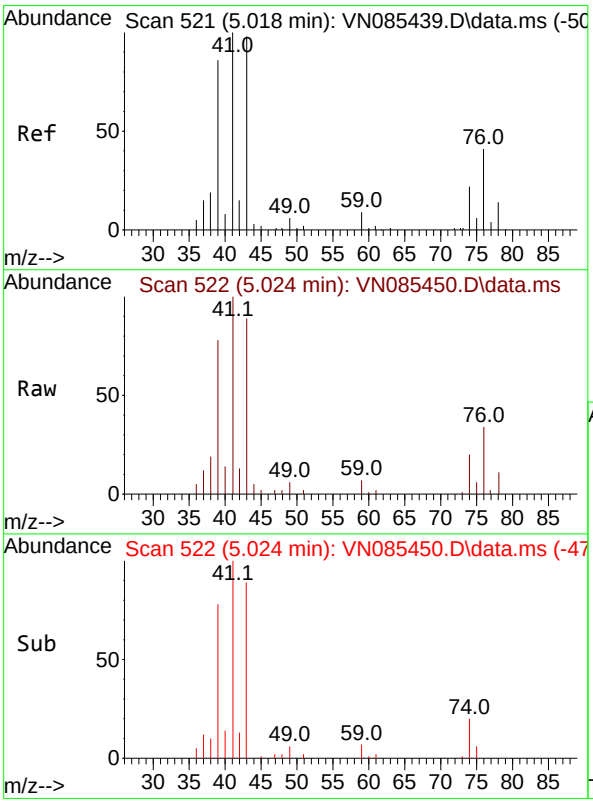
#17
Carbon Disulfide
Concen: 17.395 ug/l
RT: 4.712 min Scan# 4
Delta R.T. 0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Tgt Ion: 76 Resp: 120042

Ion	Ratio	Lower	Upper
76	100		
78	8.2	6.9	10.3

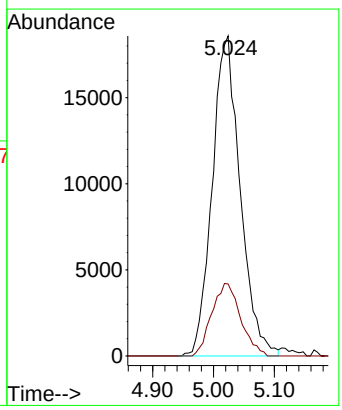


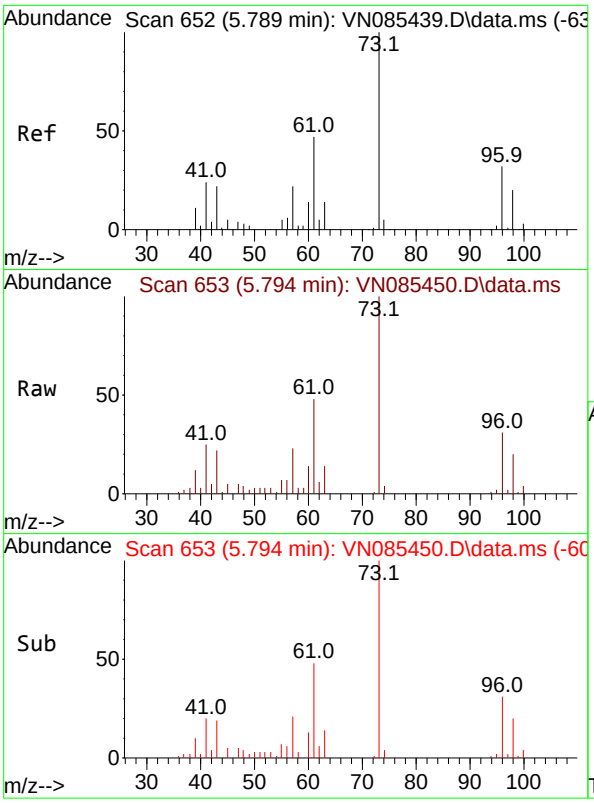


#18
Methyl Acetate
Concen: 17.906 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 43 Resp: 59306

Ion	Ratio	Lower	Upper
43	100		
74	23.4	18.6	28.0



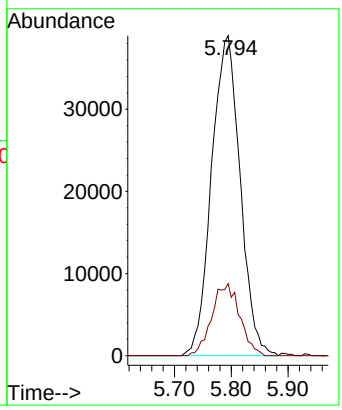


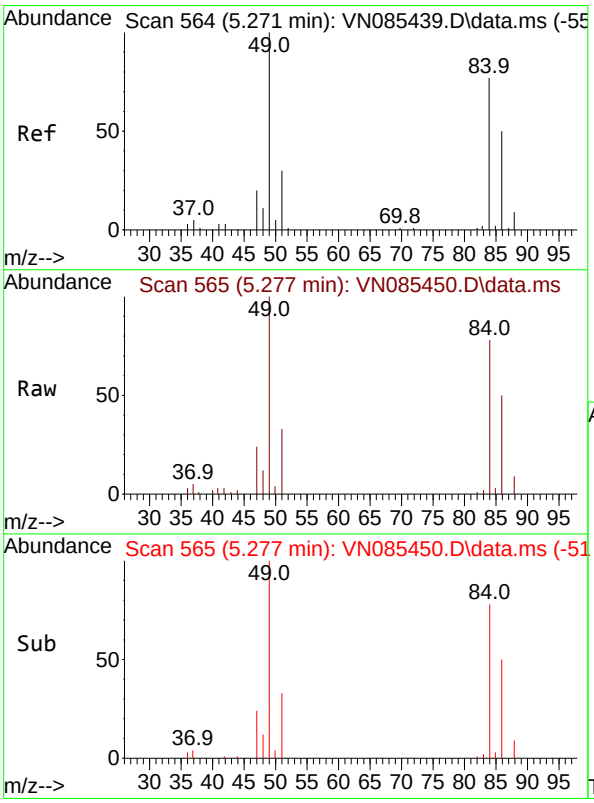
#19
Methyl tert-butyl Ether
Concen: 18.700 ug/l
RT: 5.794 min Scan# 6
Delta R.T. 0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Tgt Ion: 73 Resp: 136088

Ion	Ratio	Lower	Upper
73	100		
57	22.5	17.8	26.8

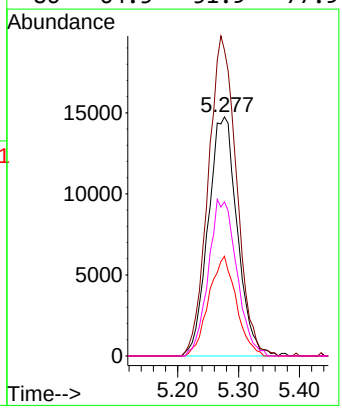


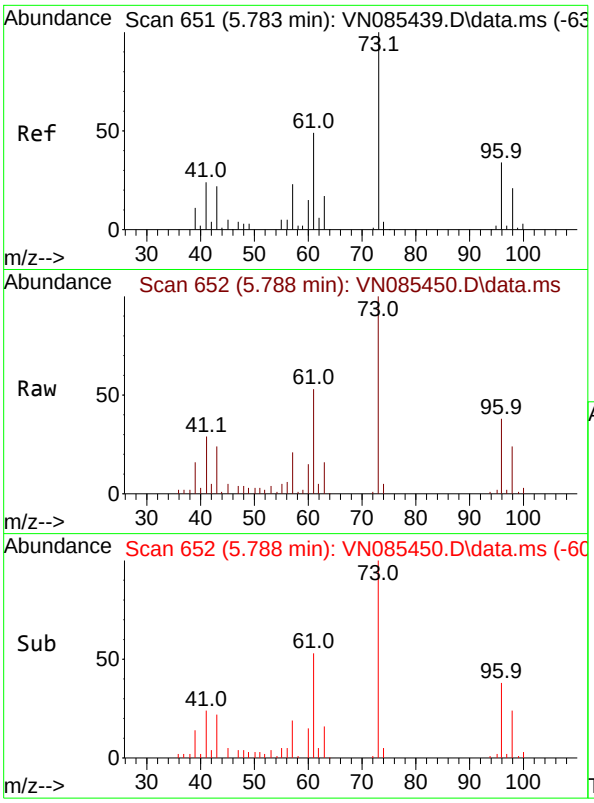


#20
Methylene Chloride
Concen: 18.156 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 84 Resp: 48956

Ion	Ratio	Lower	Upper
84	100		
49	128.0	104.1	156.1
51	41.7	31.0	46.4
86	64.5	51.9	77.9



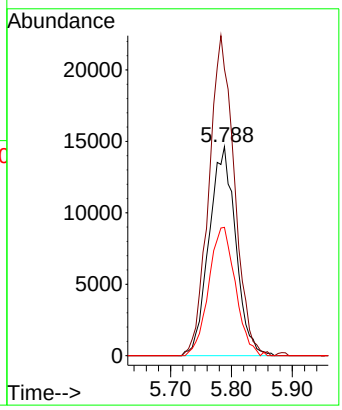


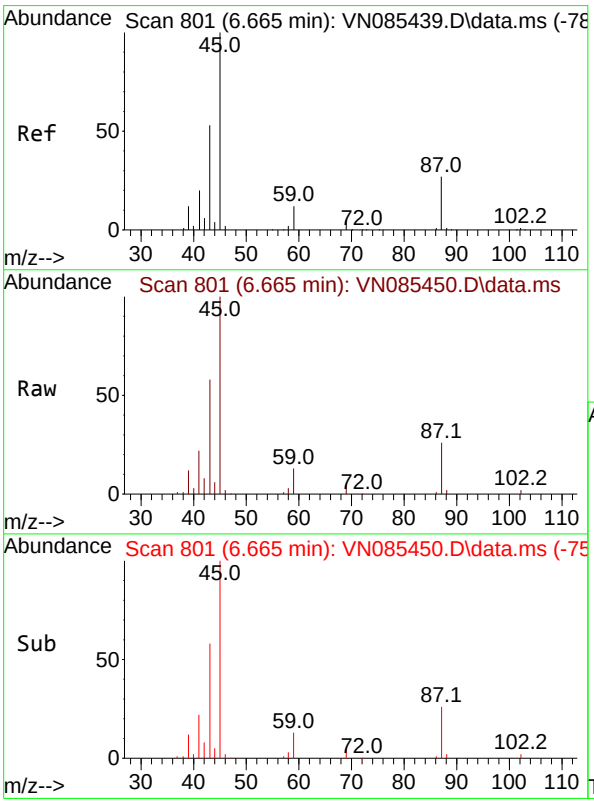
#21
trans-1,2-Dichloroethene
Concen: 18.572 ug/l
RT: 5.788 min Scan# 6
Delta R.T. 0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Tgt Ion: 96 Resp: 44485

Ion	Ratio	Lower	Upper
96	100		
61	137.2	115.7	173.5
98	61.4	49.8	74.8

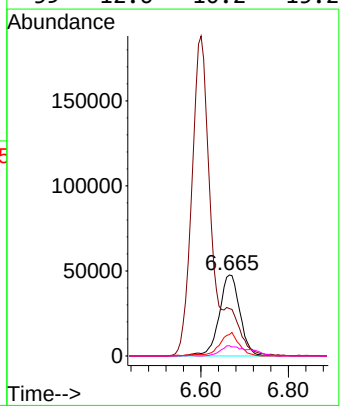


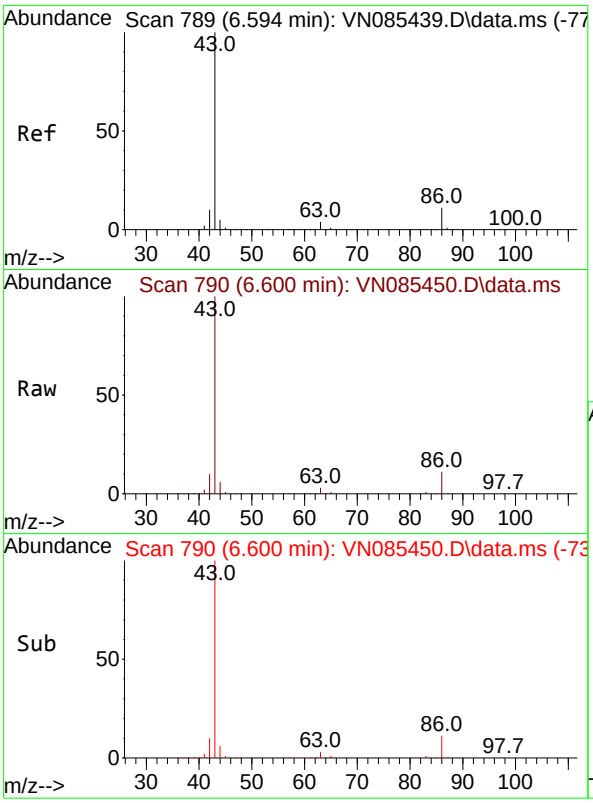


#22
Diisopropyl ether
Concen: 19.339 ug/l
RT: 6.665 min Scan# 801
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 45 Resp: 156113

Ion	Ratio	Lower	Upper
45	100		
43	56.9	45.0	67.6
87	26.4	21.8	32.8
59	12.6	10.2	15.2



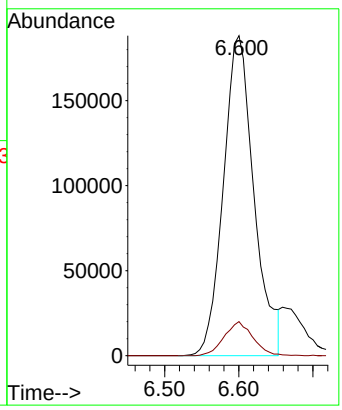


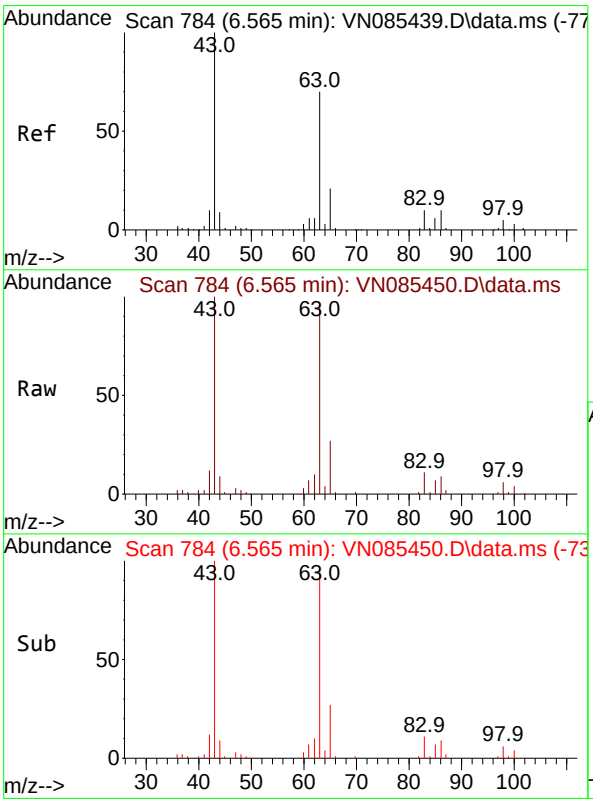
#23
Vinyl Acetate
Concen: 95.740 ug/l
RT: 6.600 min Scan# 7
Delta R.T. 0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Tgt Ion: 43 Resp: 540854

Ion	Ratio	Lower	Upper
43	100		
86	10.7	8.4	12.6

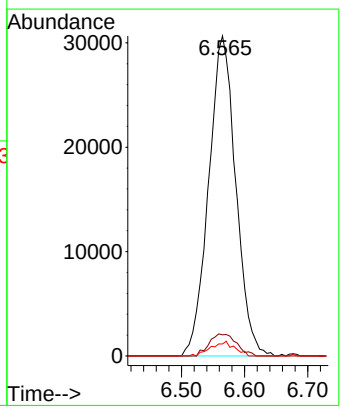


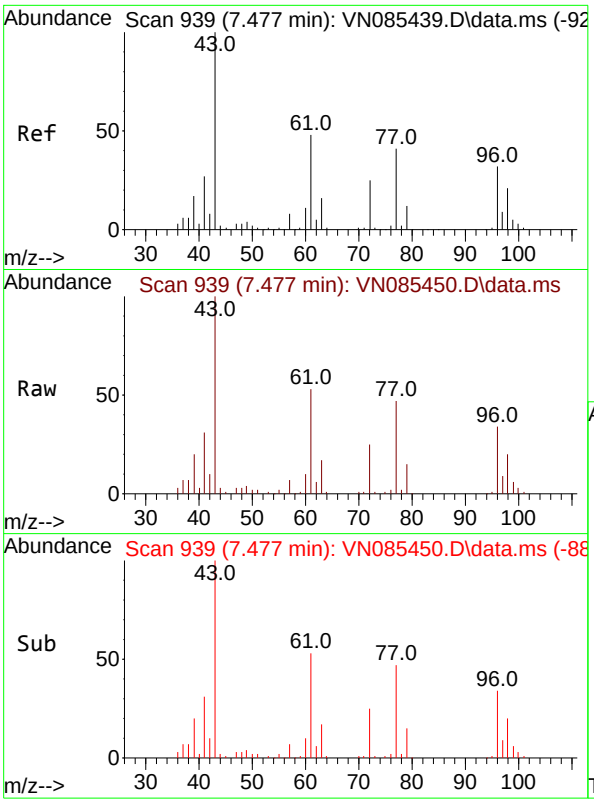


#24
1,1-Dichloroethane
Concen: 18.597 ug/l
RT: 6.565 min Scan# 784
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 63 Resp: 91537

Ion	Ratio	Lower	Upper
63	100		
98	6.6	3.3	9.8
100	3.8	2.0	6.0



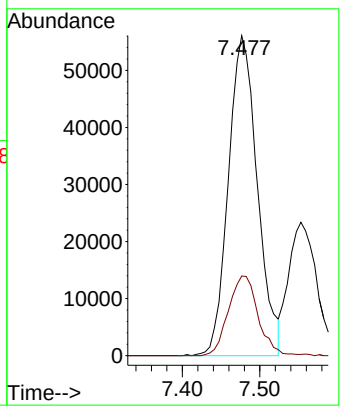


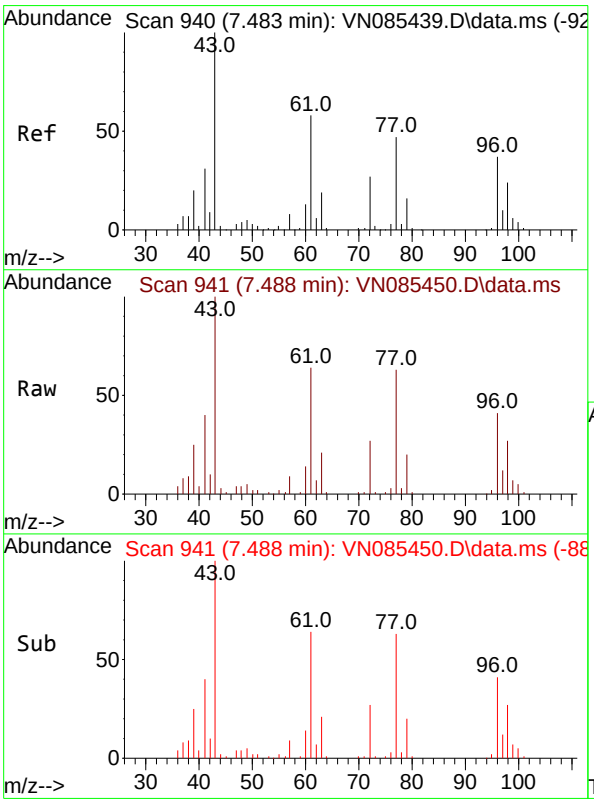
#25
2-Butanone
Concen: 91.155 ug/l
RT: 7.477 min Scan# 9
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Tgt Ion: 43 Resp: 146109

Ion	Ratio	Lower	Upper
43	100		
72	24.9	20.2	30.4

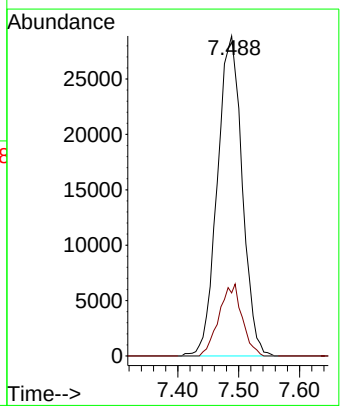


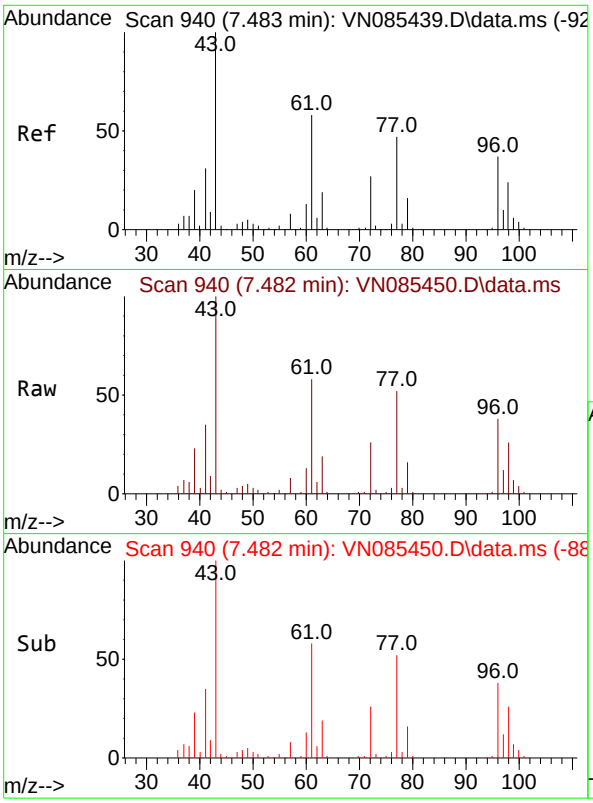


#26
2,2-Dichloropropane
Concen: 20.576 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 77 Resp: 81881

Ion	Ratio	Lower	Upper
77	100		
97	20.8	10.7	32.1



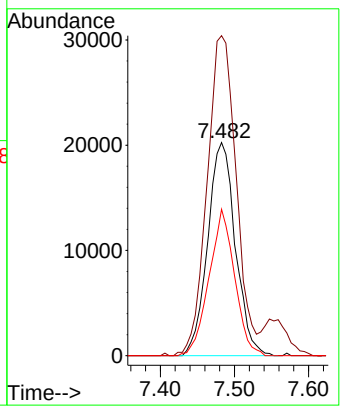


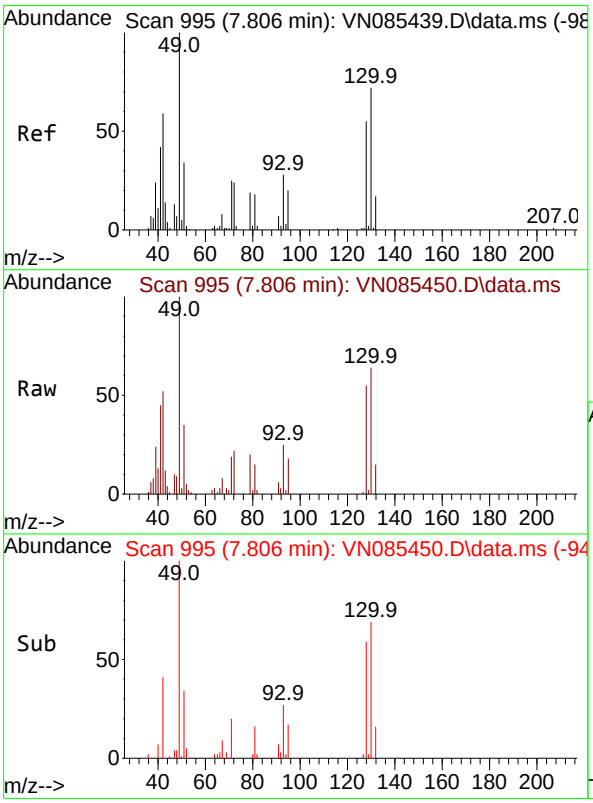
#27
cis-1,2-Dichloroethene
Concen: 18.654 ug/l
RT: 7.482 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Tgt Ion: 96 Resp: 52626

Ion	Ratio	Lower	Upper
96	100		
61	157.4	0.0	311.8
98	63.4	0.0	126.0

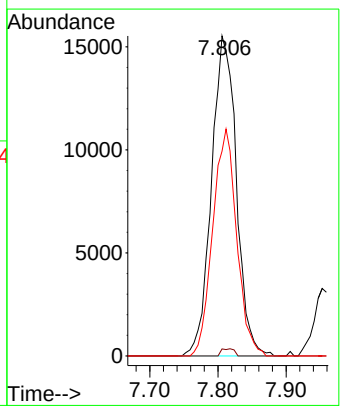


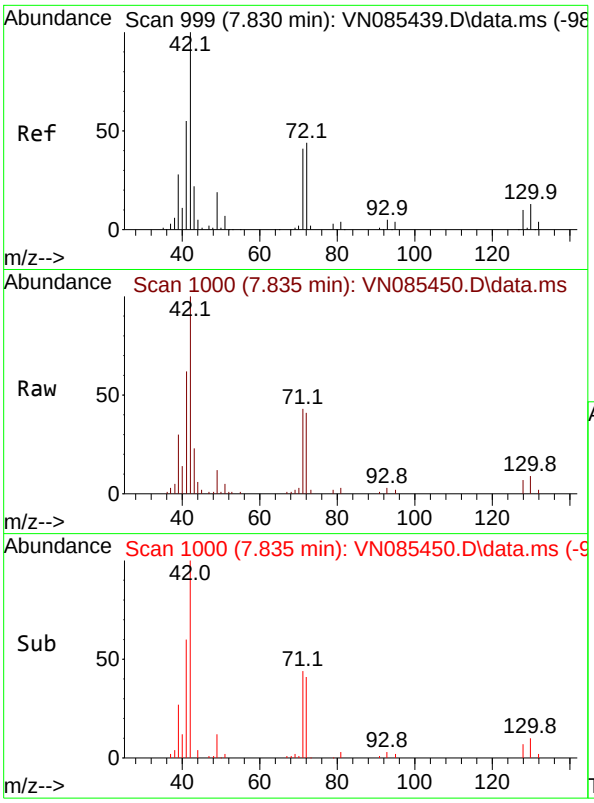


#28
Bromochloromethane
Concen: 17.209 ug/l
RT: 7.806 min Scan# 995
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 49 Resp: 39408

Ion	Ratio	Lower	Upper
49	100		
129	1.2	0.0	4.4
130	68.3	55.0	82.4



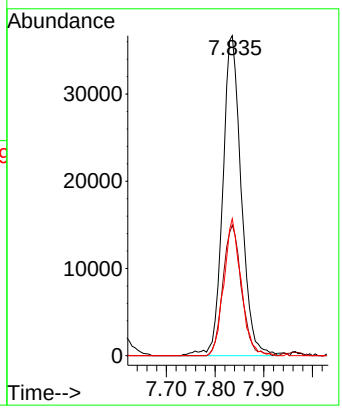


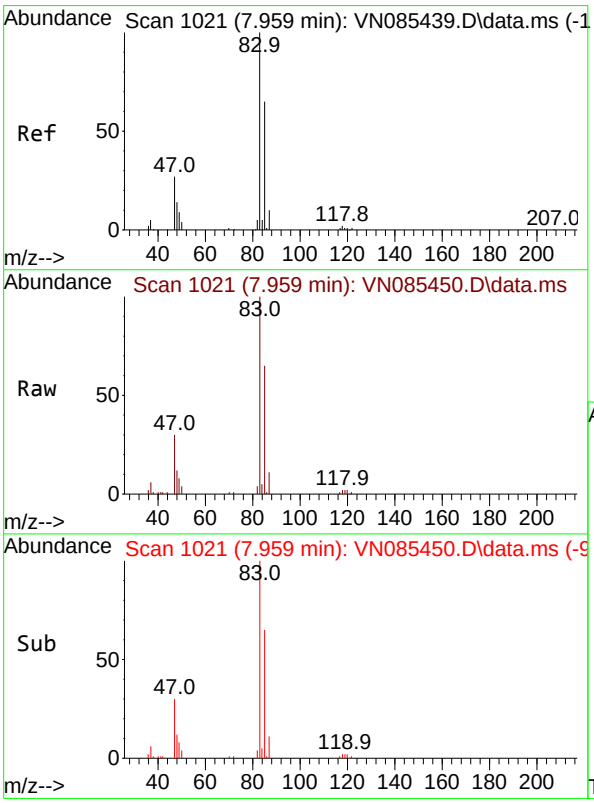
#29
Tetrahydrofuran
Concen: 95.619 ug/l
RT: 7.835 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Tgt Ion: 42 Resp: 97170

Ion	Ratio	Lower	Upper
42	100		
72	40.8	34.2	51.2
71	39.9	32.5	48.7

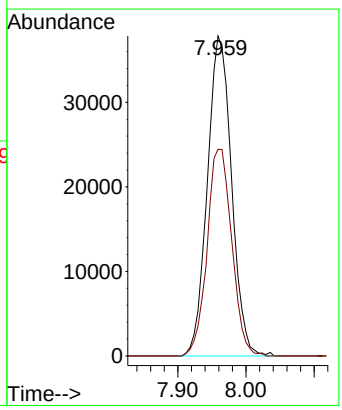


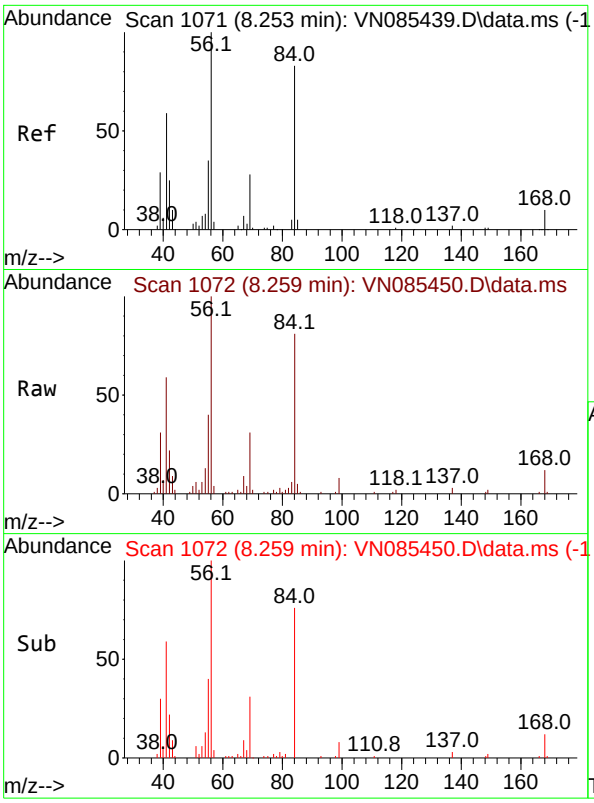


#30
Chloroform
Concen: 18.400 ug/l
RT: 7.959 min Scan# 1021
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 83 Resp: 93604

Ion	Ratio	Lower	Upper
83	100		
85	64.6	51.8	77.6



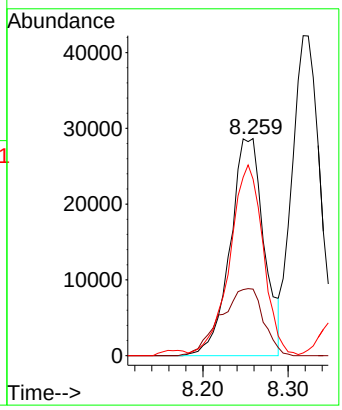


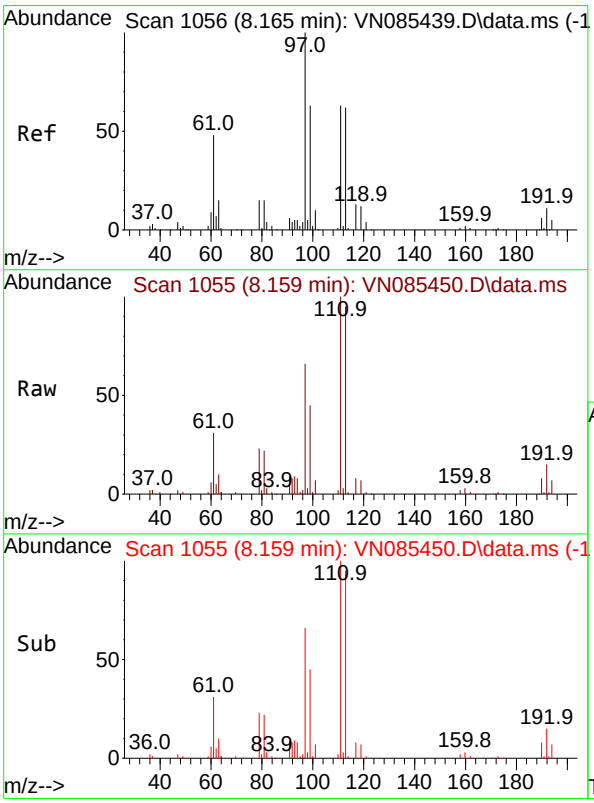
#31
Cyclohexane
Concen: 18.500 ug/l
RT: 8.259 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Tgt Ion: 56 Resp: 79144

Ion	Ratio	Lower	Upper
56	100		
69	30.0	22.2	33.4
84	78.9	66.4	99.6

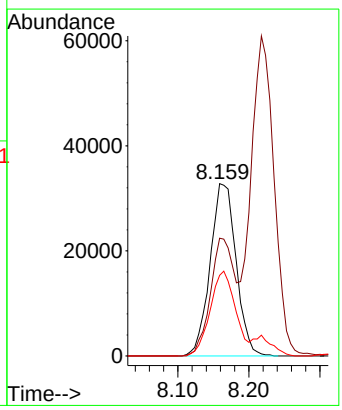


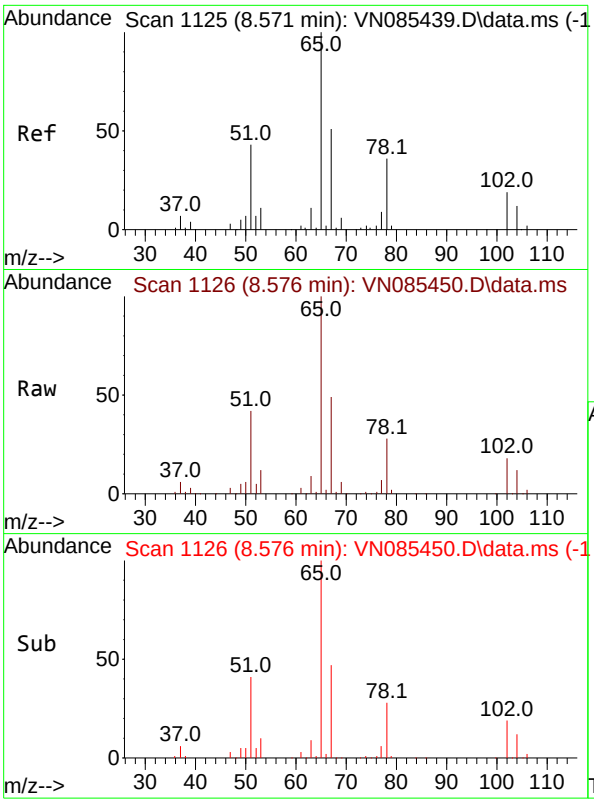


#32
1,1,1-Trichloroethane
Concen: 18.618 ug/l
RT: 8.159 min Scan# 1055
Delta R.T. -0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 97 Resp: 83081

Ion	Ratio	Lower	Upper
97	100		
99	61.6	49.8	74.6
61	48.2	41.4	62.2



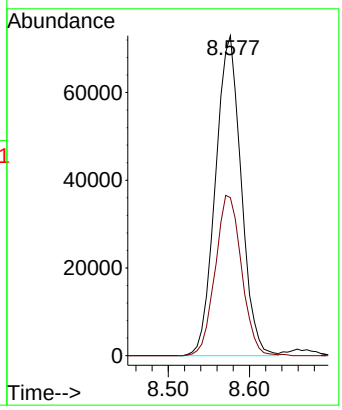


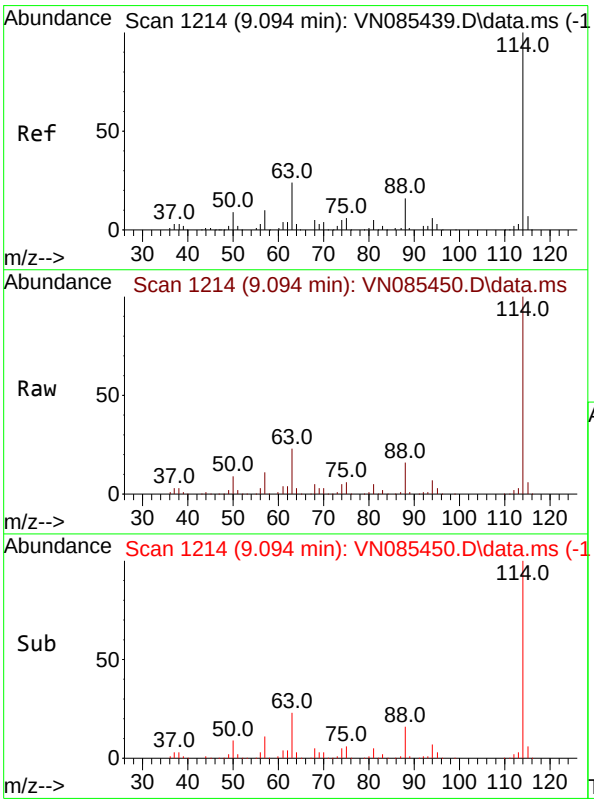
#33
1,2-Dichloroethane-d4
Concen: 47.611 ug/l
RT: 8.576 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Tgt Ion: 65 Resp: 160496

Ion	Ratio	Lower	Upper
65	100		
67	51.3	0.0	101.6

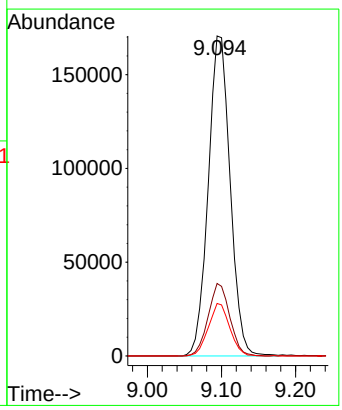


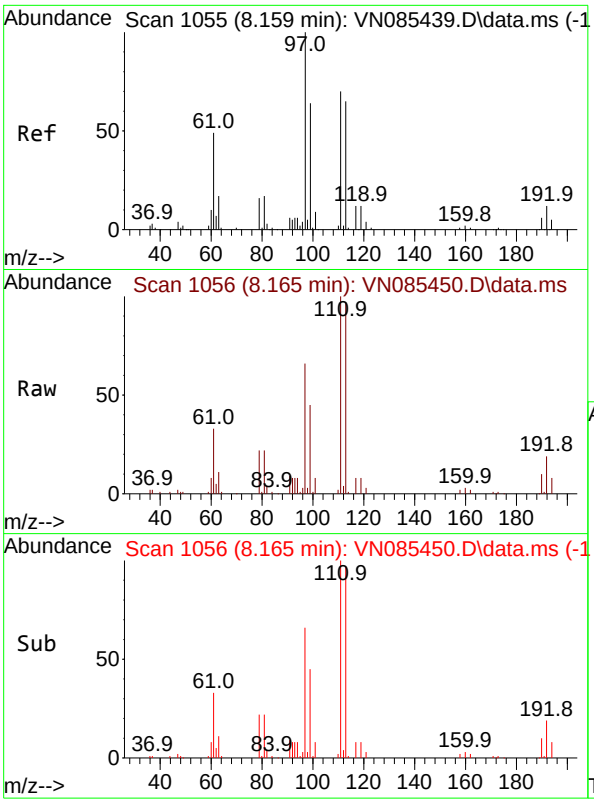


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.094 min Scan# 1214
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion:114 Resp: 350038

Ion	Ratio	Lower	Upper
114	100		
63	22.7	0.0	47.6
88	16.4	0.0	32.6



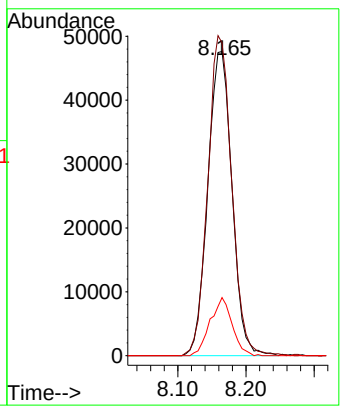


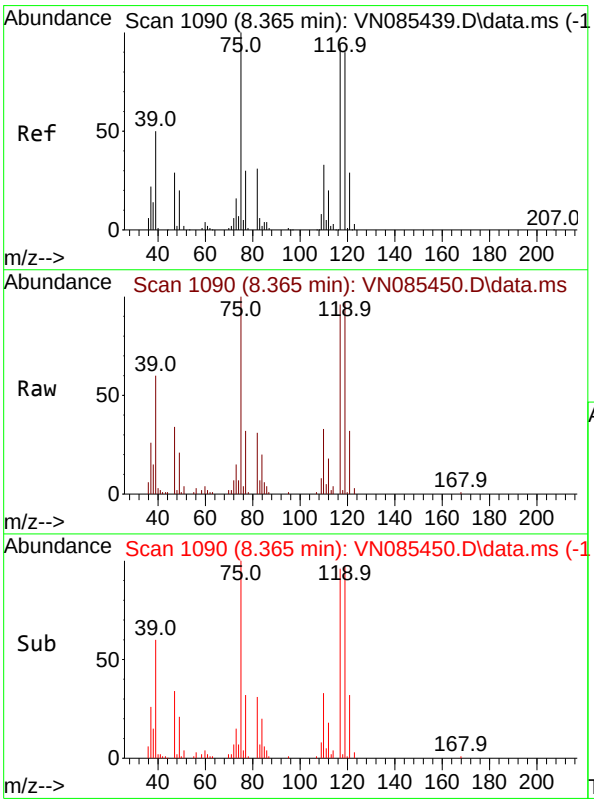
#35
Dibromofluoromethane
Concen: 48.506 ug/l
RT: 8.165 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Tgt Ion:113 Resp: 117791

Ion	Ratio	Lower	Upper
113	100		
111	103.8	82.7	124.1
192	17.4	14.3	21.5

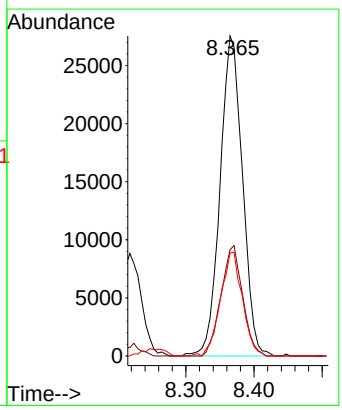


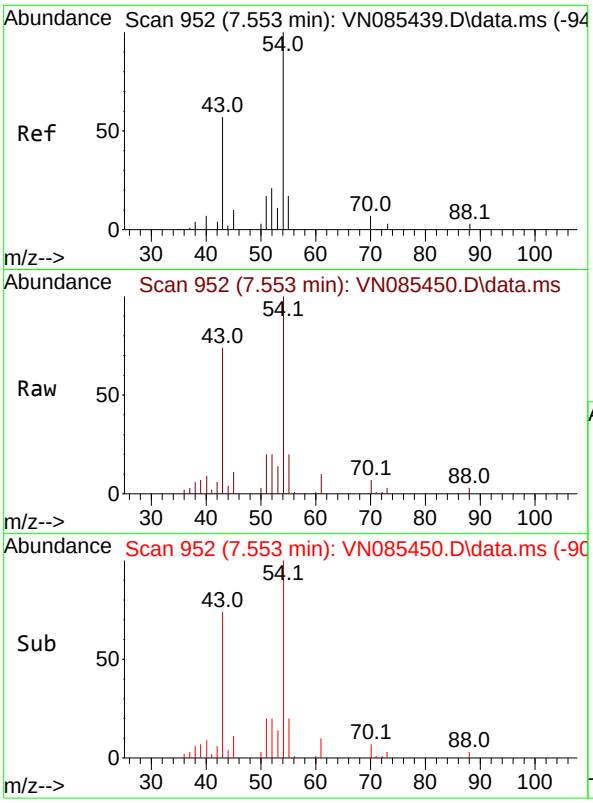


#36
1,1-Dichloropropene
Concen: 18.521 ug/l
RT: 8.365 min Scan# 1090
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 75 Resp: 63125

Ion	Ratio	Lower	Upper
75	100		
110	33.2	16.5	49.5
77	31.7	24.4	36.6



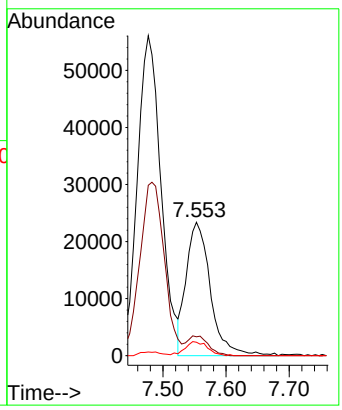


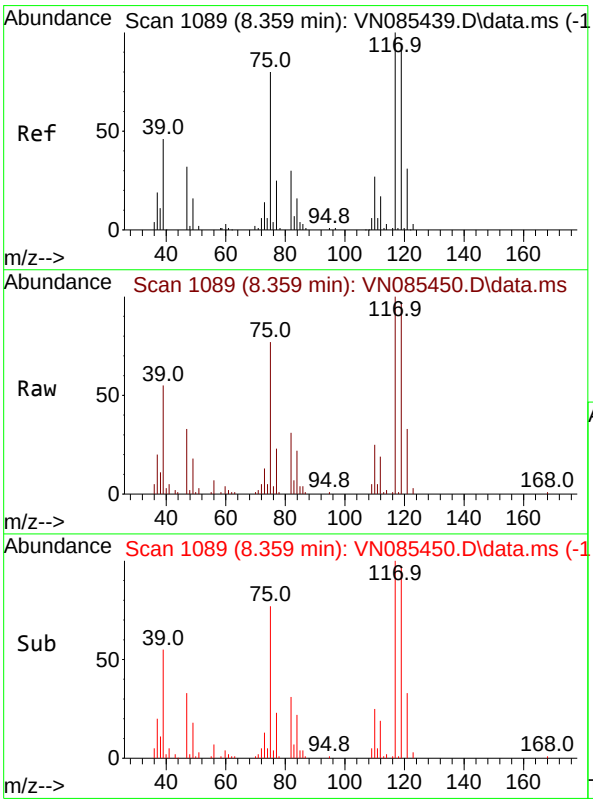
#37
Ethyl Acetate
Concen: 18.113 ug/l
RT: 7.553 min Scan# 9
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Tgt Ion: 43 Resp: 62310

Ion	Ratio	Lower	Upper
43	100		
61	12.0	10.9	16.3
70	9.8	7.5	11.3

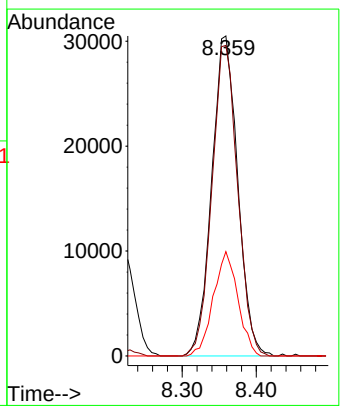


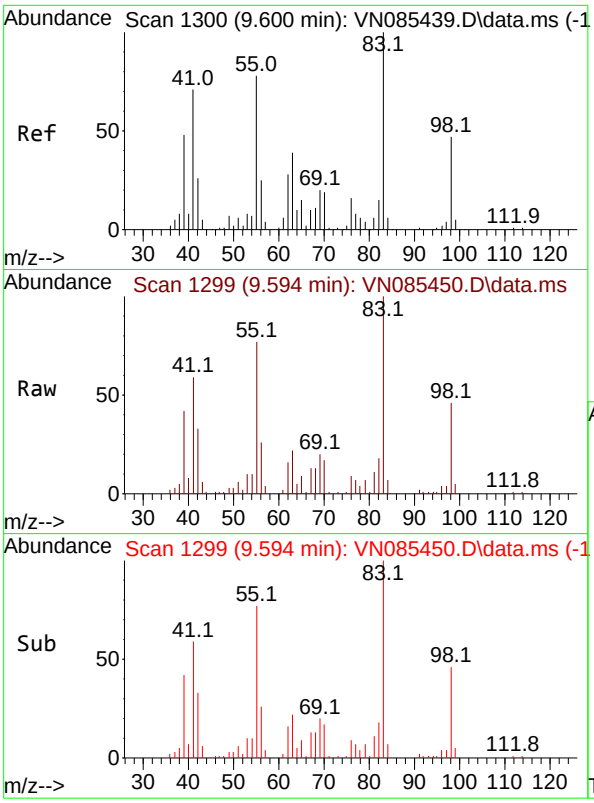


#38
Carbon Tetrachloride
Concen: 19.039 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion:117 Resp: 74287

Ion	Ratio	Lower	Upper
117	100		
119	97.1	75.4	113.2
121	32.6	24.6	37.0



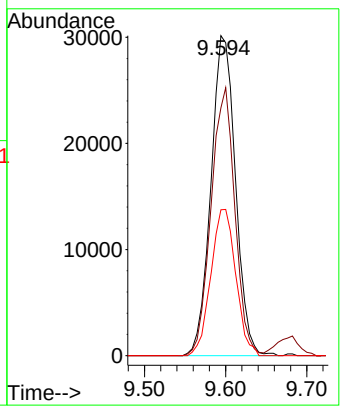


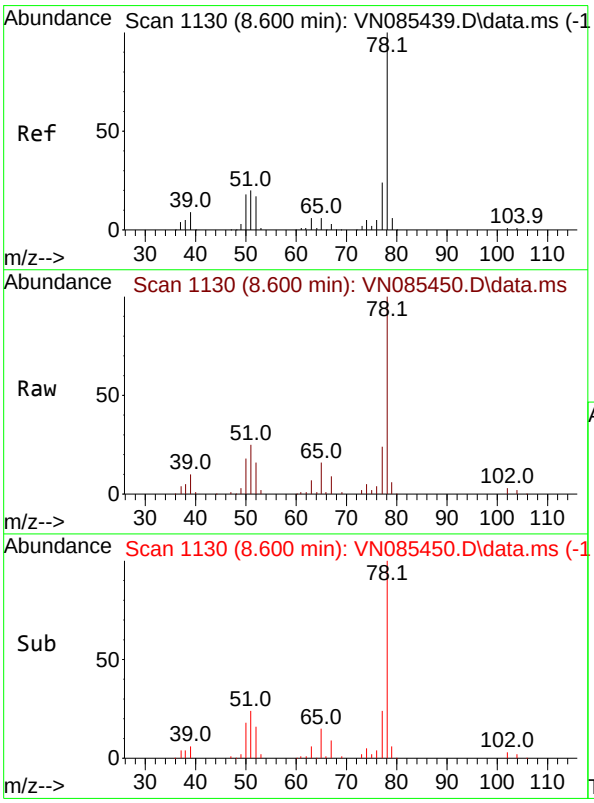
#39
Methylcyclohexane
Concen: 19.799 ug/l
RT: 9.594 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Tgt Ion: 83 Resp: 63410

Ion	Ratio	Lower	Upper
83	100		
55	77.5	62.6	94.0
98	45.6	37.7	56.5

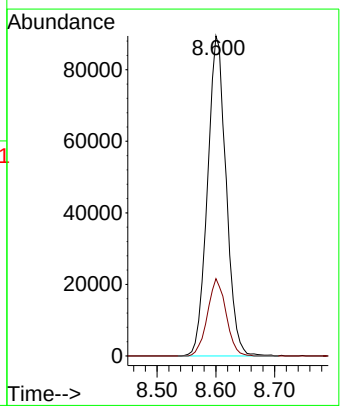


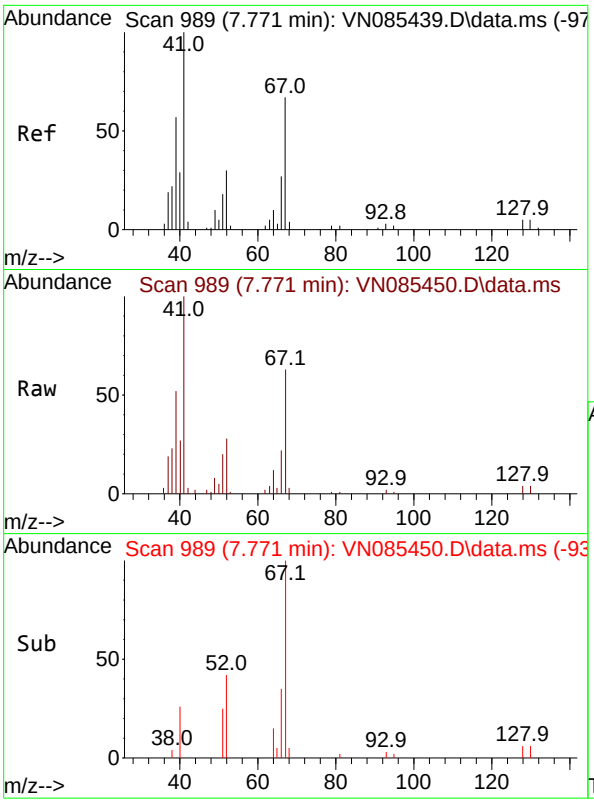


#40
Benzene
Concen: 19.222 ug/l
RT: 8.600 min Scan# 1130
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 78 Resp: 196843

Ion	Ratio	Lower	Upper
78	100		
77	24.1	19.0	28.6



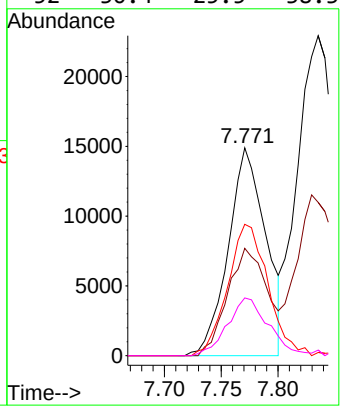


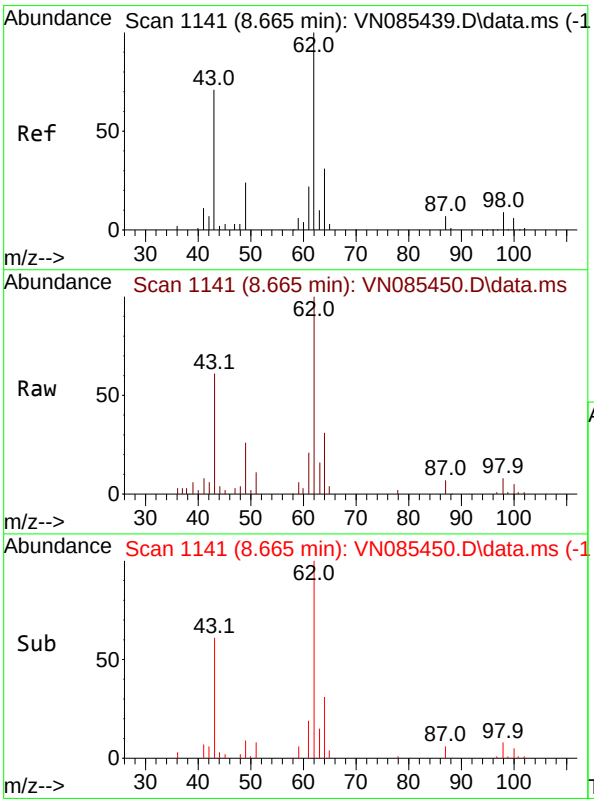
#41
Methacrylonitrile
Concen: 19.082 ug/l
RT: 7.771 min Scan# 9
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Tgt Ion: 41 Resp: 34152

Ion	Ratio	Lower	Upper
41	100		
39	55.0	46.0	69.0
67	68.1	57.4	86.2
52	30.4	25.5	38.3

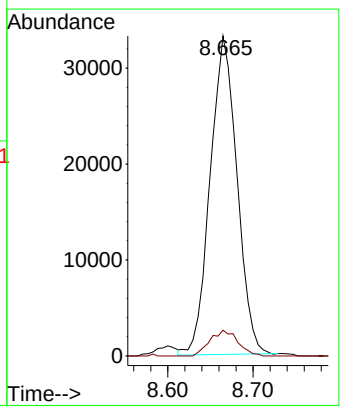


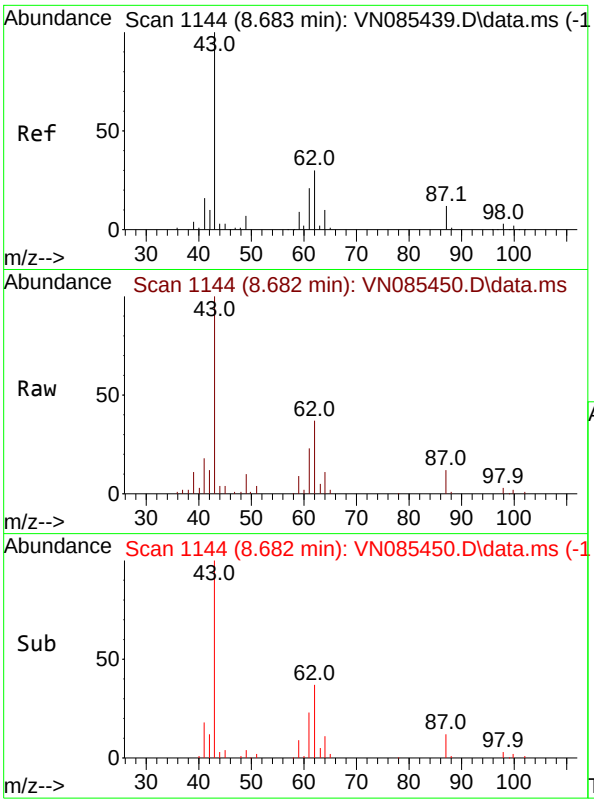


#42
1,2-Dichloroethane
Concen: 18.835 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 62 Resp: 72644

Ion	Ratio	Lower	Upper
62	100		
98	8.4	0.0	17.0



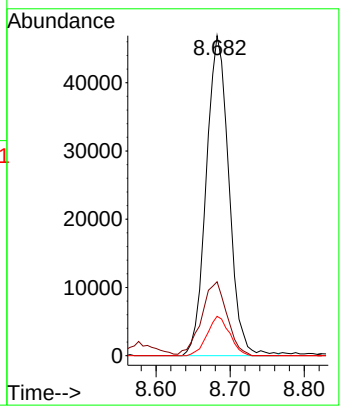


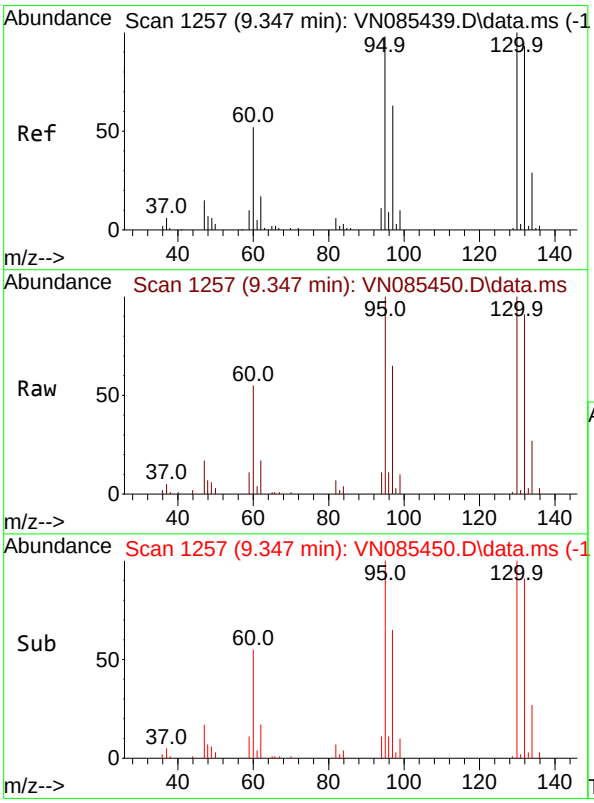
#43
Isopropyl Acetate
Concen: 18.059 ug/l
RT: 8.682 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Tgt Ion: 43 Resp: 99545

Ion	Ratio	Lower	Upper
43	100		
61	26.0	20.7	31.1
87	12.1	9.8	14.8

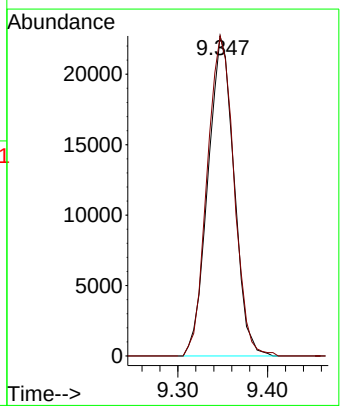


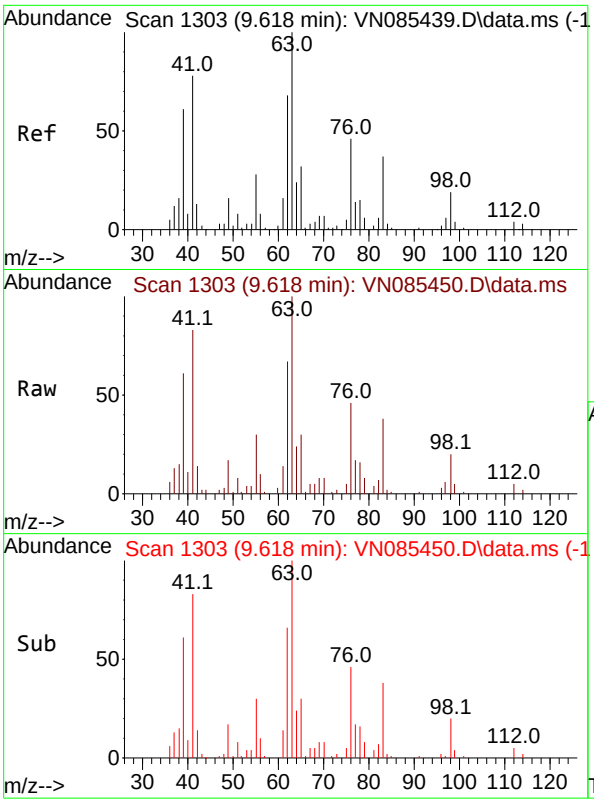


#44
Trichloroethene
Concen: 19.224 ug/l
RT: 9.347 min Scan# 1257
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion:130 Resp: 45825

Ion	Ratio	Lower	Upper
130	100		
95	100.0	0.0	195.8



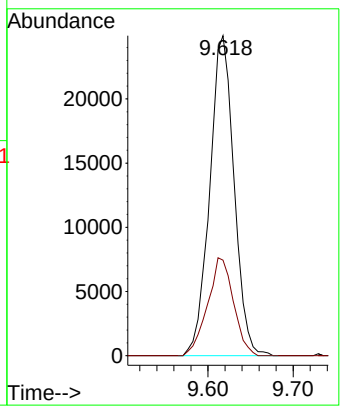


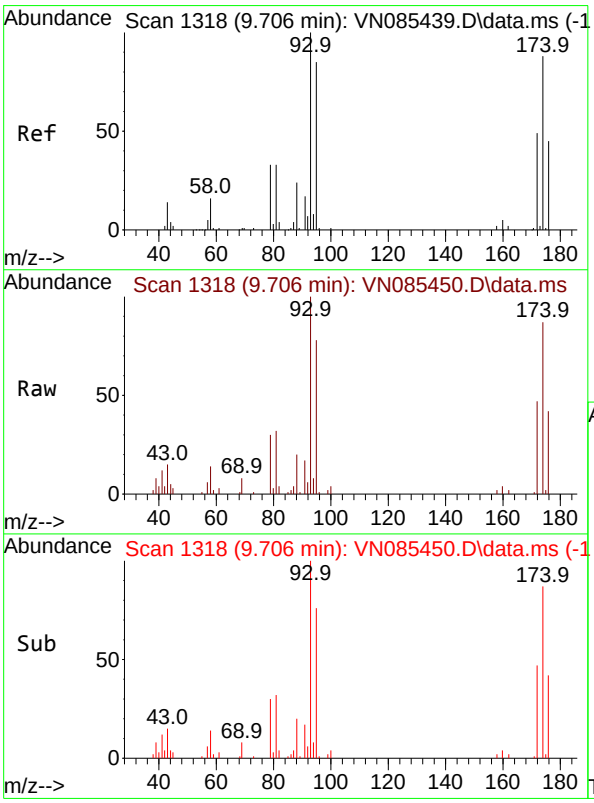
#45
1,2-Dichloropropane
Concen: 18.931 ug/l
RT: 9.618 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Tgt Ion: 63 Resp: 49517

Ion	Ratio	Lower	Upper
63	100		
65	29.8	25.6	38.4

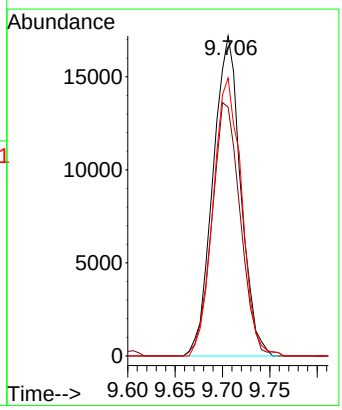


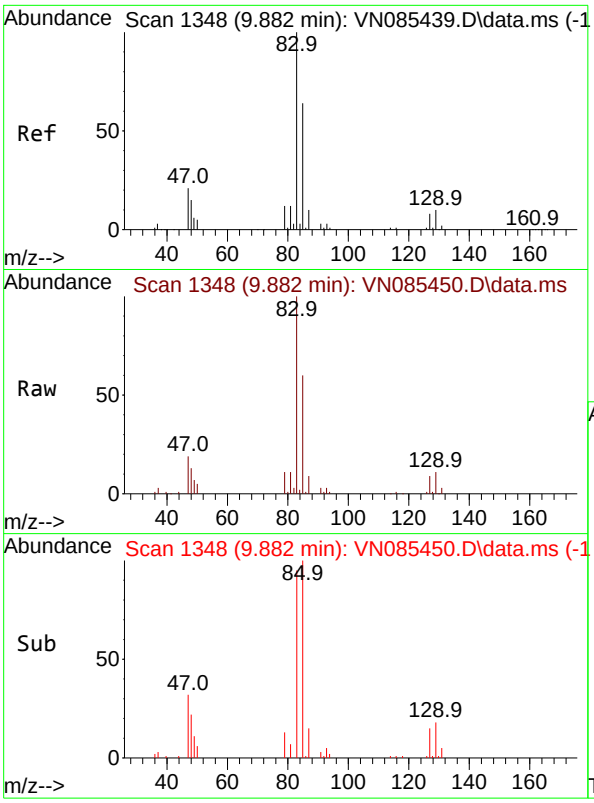


#46
Dibromomethane
Concen: 18.531 ug/l
RT: 9.706 min Scan# 1318
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 93 Resp: 34976

Ion	Ratio	Lower	Upper
93	100		
95	80.9	64.7	97.1
174	88.6	69.0	103.4



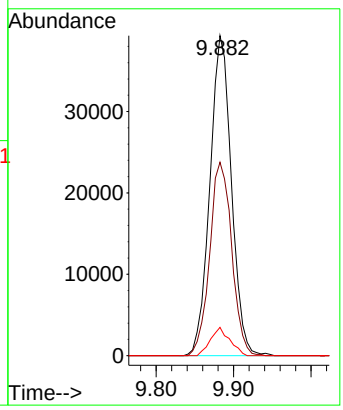


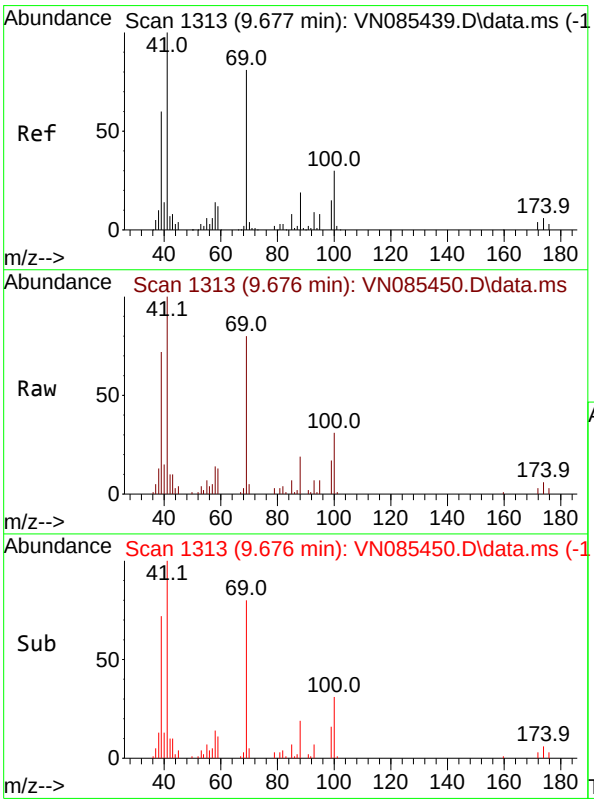
#47
Bromodichloromethane
Concen: 19.759 ug/l
RT: 9.882 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Tgt Ion: 83 Resp: 75979

Ion	Ratio	Lower	Upper
83	100		
85	60.4	51.2	76.8
127	8.8	6.5	9.7

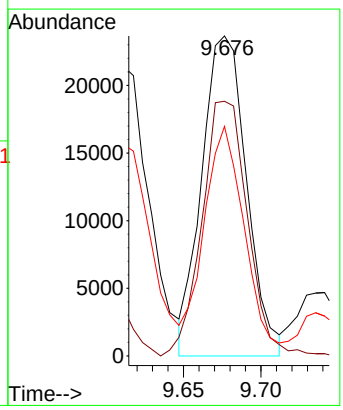


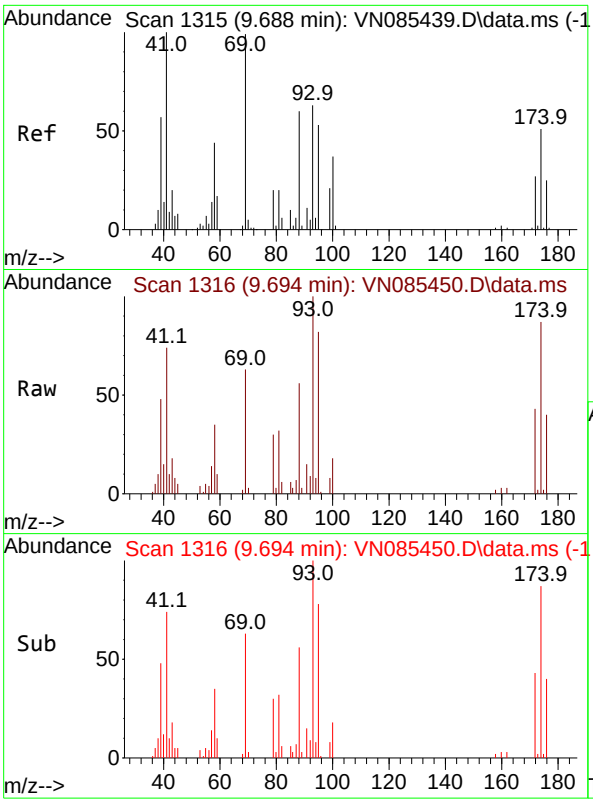


#48
Methyl methacrylate
Concen: 19.143 ug/l
RT: 9.676 min Scan# 1313
Delta R.T. -0.001 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 41 Resp: 47488

Ion	Ratio	Lower	Upper
41	100		
69	81.2	64.7	97.1
39	65.3	49.0	73.6



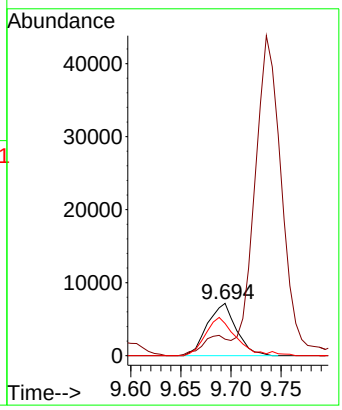


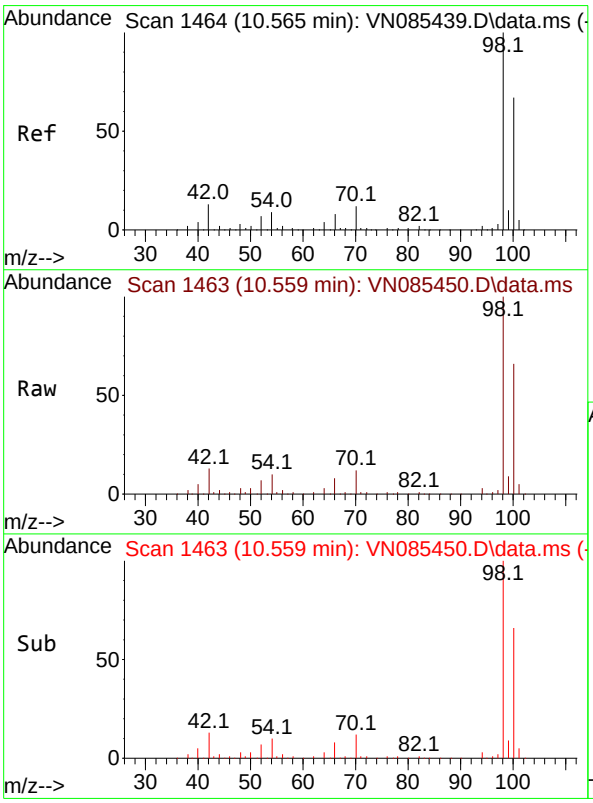
#49
1,4-Dioxane
Concen: 343.615 ug/l
RT: 9.694 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Tgt Ion: 88 Resp: 14354

Ion	Ratio	Lower	Upper
88	100		
43	36.4	26.6	39.8
58	77.8	59.5	89.3

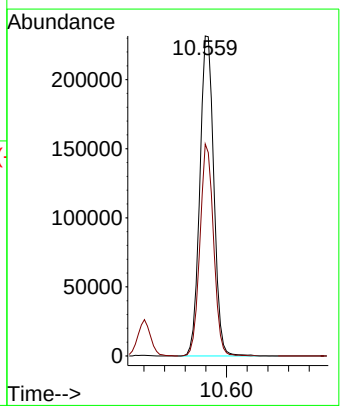


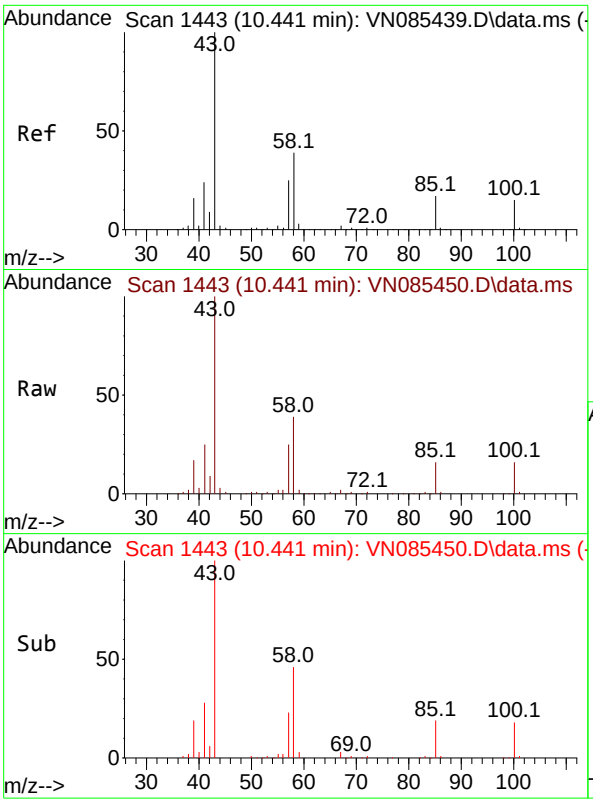


#50
Toluene-d8
Concen: 50.376 ug/l
RT: 10.559 min Scan# 1463
Delta R.T. -0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 98 Resp: 434650

Ion	Ratio	Lower	Upper
98	100		
100	64.6	52.2	78.4



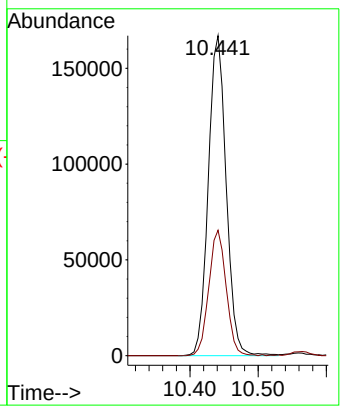


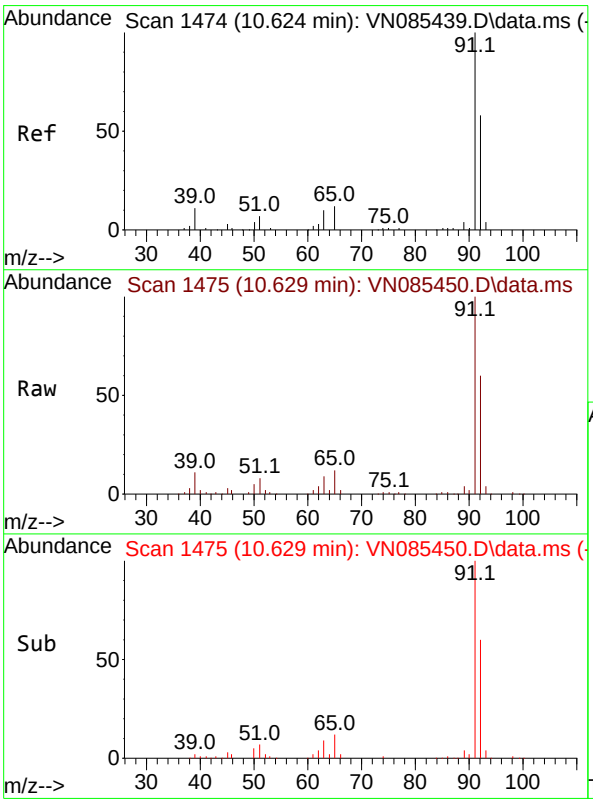
#51
4-Methyl-2-Pentanone
Concen: 95.328 ug/l
RT: 10.441 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Tgt Ion: 43 Resp: 304924

Ion	Ratio	Lower	Upper
43	100		
58	38.1	30.5	45.7

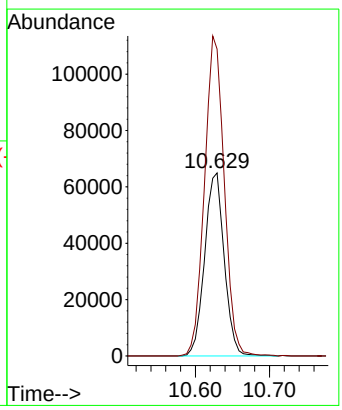


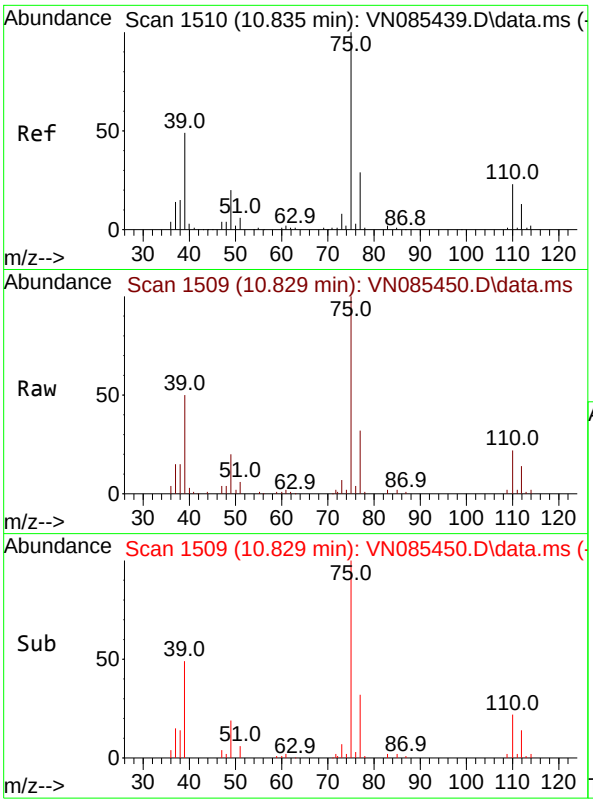


#52
Toluene
Concen: 20.053 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.005 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 92 Resp: 118985

Ion	Ratio	Lower	Upper
92	100		
91	176.2	139.2	208.8



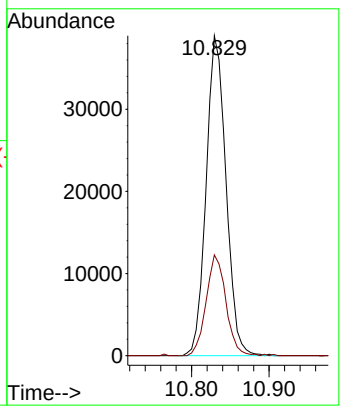


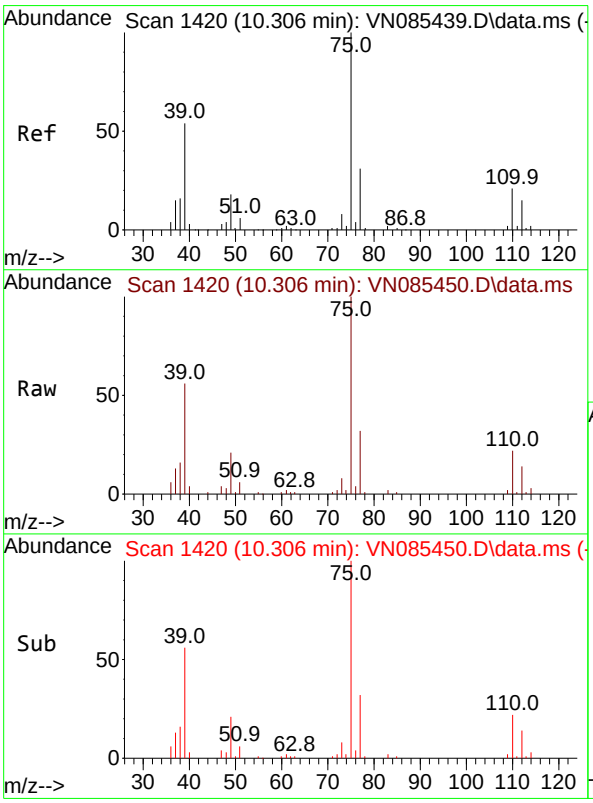
#53
t-1,3-Dichloropropene
Concen: 19.044 ug/l
RT: 10.829 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Tgt Ion: 75 Resp: 69201

Ion	Ratio	Lower	Upper
75	100		
77	31.5	23.5	35.3

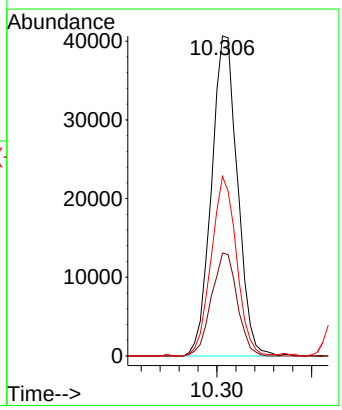


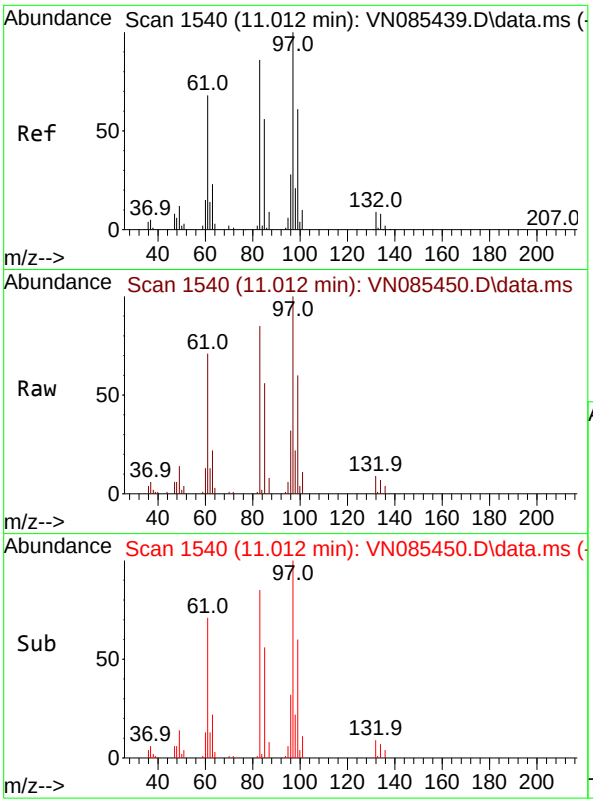


#54
cis-1,3-Dichloropropene
Concen: 19.958 ug/l
RT: 10.306 min Scan# 1420
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 75 Resp: 77467

Ion	Ratio	Lower	Upper
75	100		
77	32.2	25.0	37.4
39	56.1	43.1	64.7



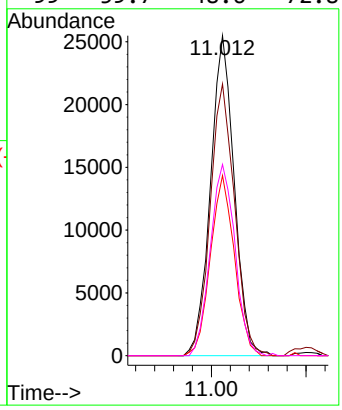


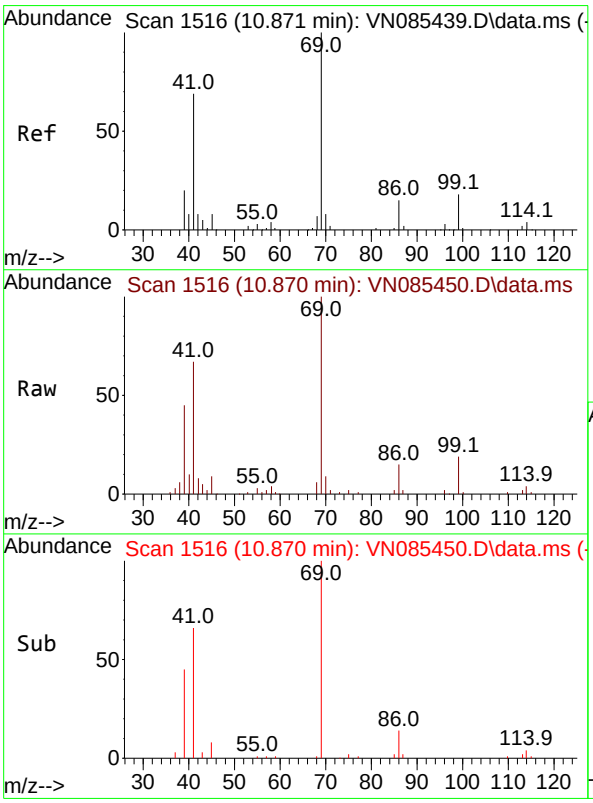
#55
1,1,2-Trichloroethane
Concen: 18.906 ug/l
RT: 11.012 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Tgt Ion: 97 Resp: 44394

Ion	Ratio	Lower	Upper
97	100		
83	84.9	69.0	103.6
85	56.3	44.6	66.8
99	59.7	48.6	72.8

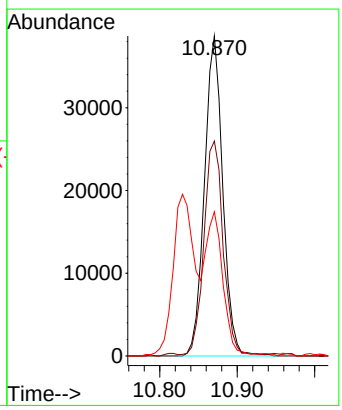


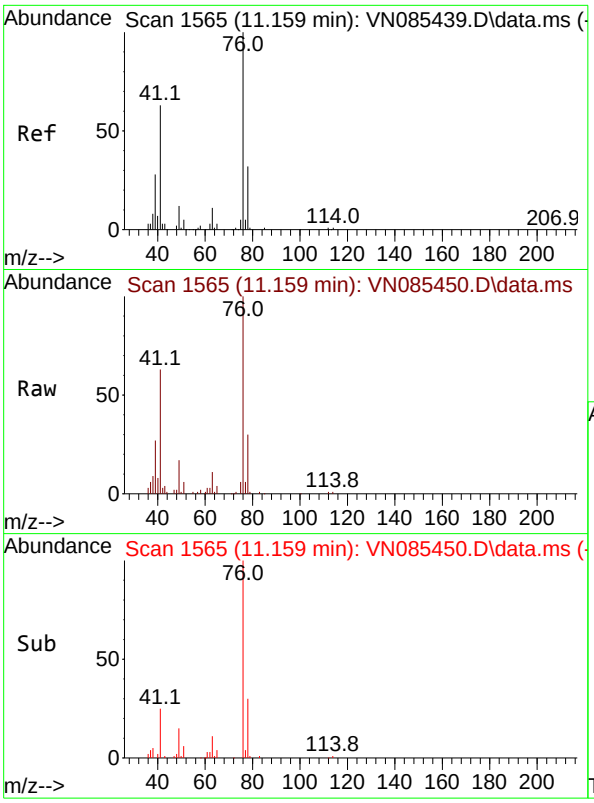


#56
Ethyl methacrylate
Concen: 17.379 ug/l
RT: 10.870 min Scan# 1516
Delta R.T. -0.001 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 69 Resp: 63560

Ion	Ratio	Lower	Upper
69	100		
41	69.4	54.6	82.0
39	41.4	32.4	48.6



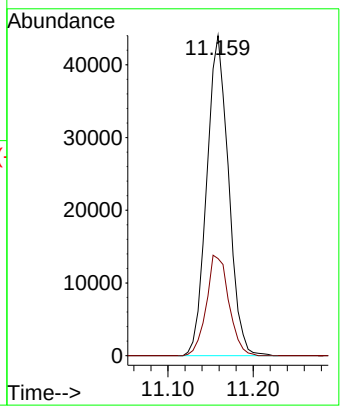


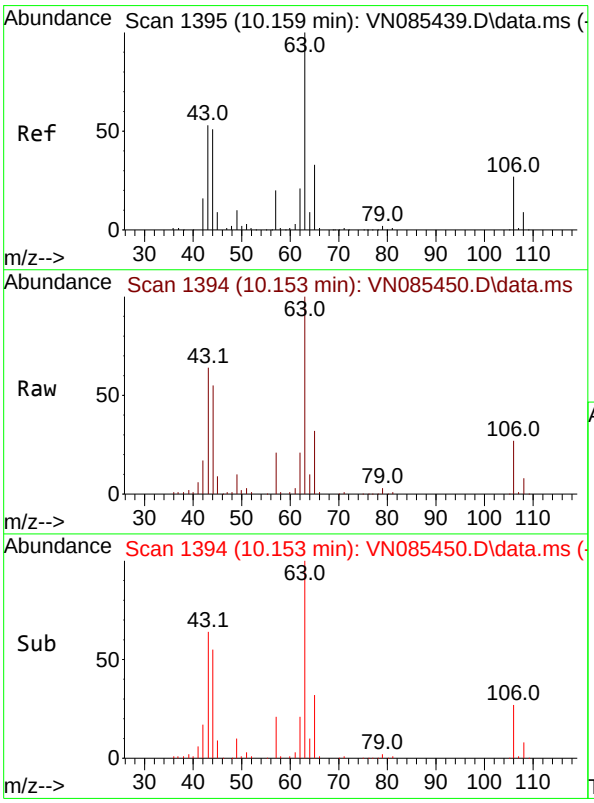
#57
1,3-Dichloropropane
Concen: 19.136 ug/l
RT: 11.159 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Tgt Ion: 76 Resp: 78133

Ion	Ratio	Lower	Upper
76	100		
78	32.3	25.6	38.4

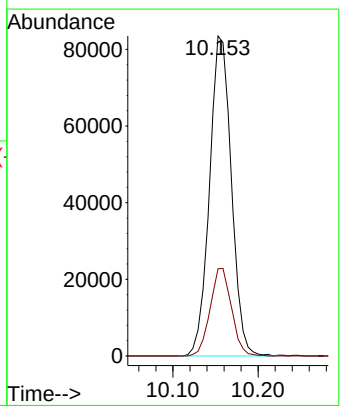


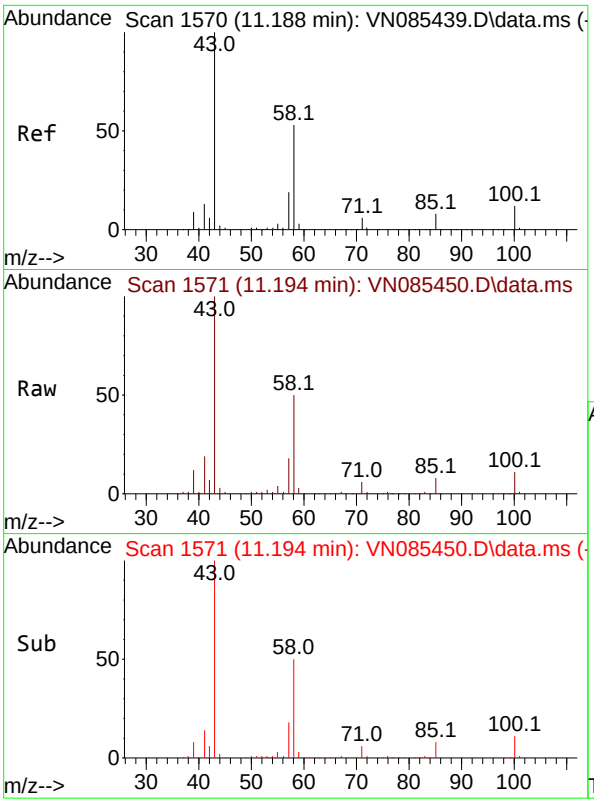


#58
2-Chloroethyl Vinyl ether
Concen: 99.810 ug/l
RT: 10.153 min Scan# 1394
Delta R.T. -0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 63 Resp: 148732

Ion	Ratio	Lower	Upper
63	100		
106	26.7	21.6	32.4



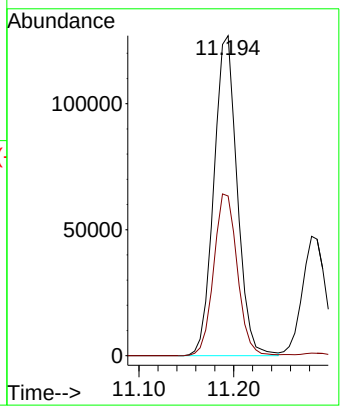


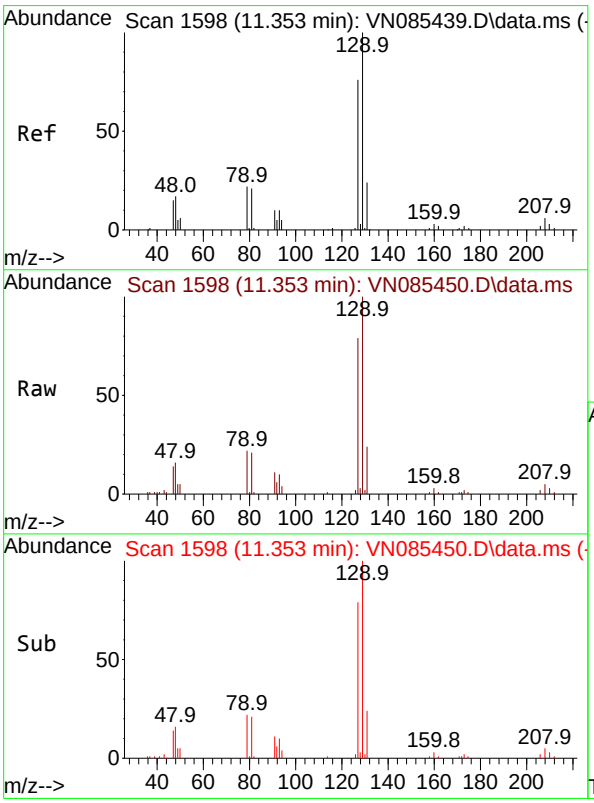
#59
2-Hexanone
Concen: 96.472 ug/l
RT: 11.194 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Tgt Ion: 43 Resp: 217128

Ion	Ratio	Lower	Upper
43	100		
58	51.2	26.2	78.6

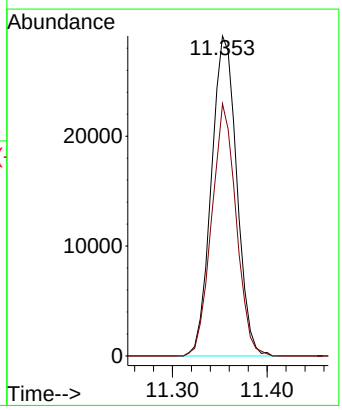


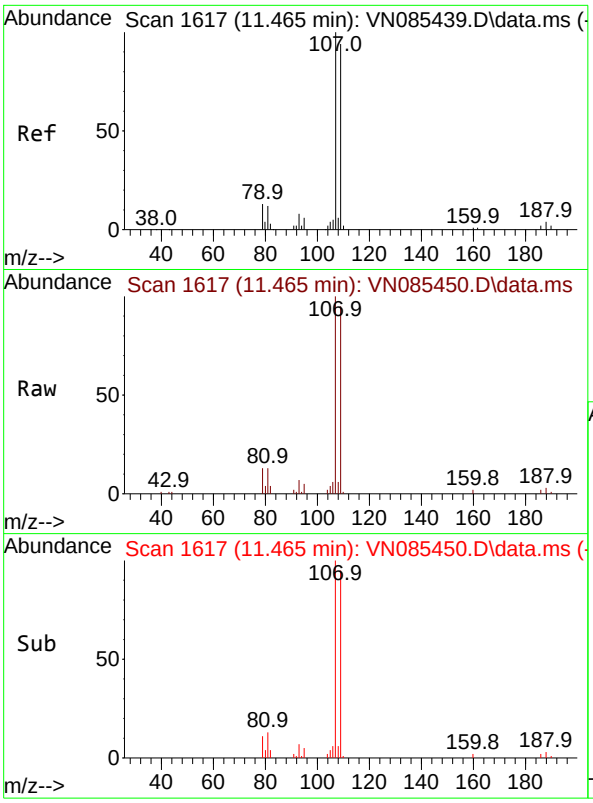


#60
Dibromochloromethane
Concen: 19.097 ug/l
RT: 11.353 min Scan# 1598
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion:129 Resp: 54139

Ion	Ratio	Lower	Upper
129	100		
127	76.2	38.6	115.8



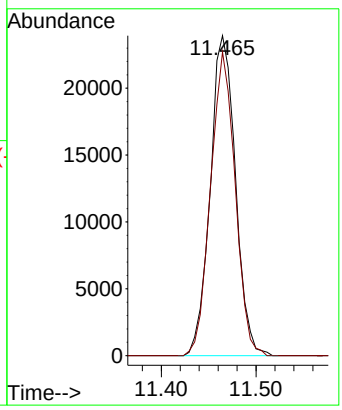


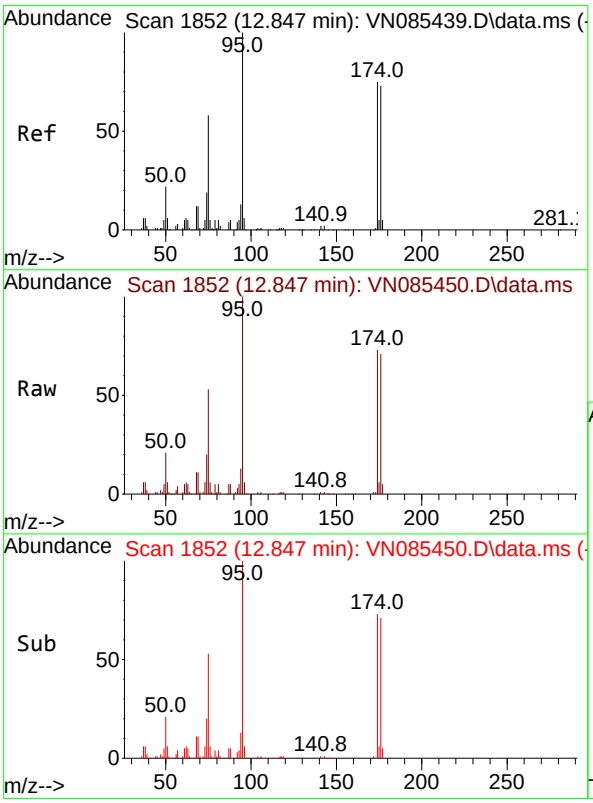
#61
1,2-Dibromoethane
Concen: 18.932 ug/l
RT: 11.465 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Tgt Ion:107 Resp: 44253

Ion	Ratio	Lower	Upper
107	100		
109	92.6	75.9	113.9

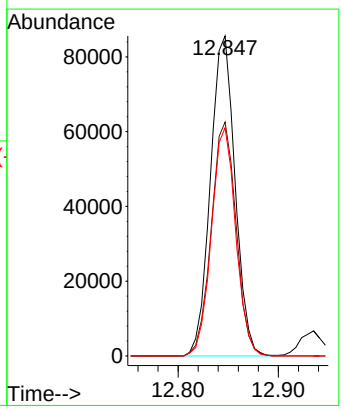


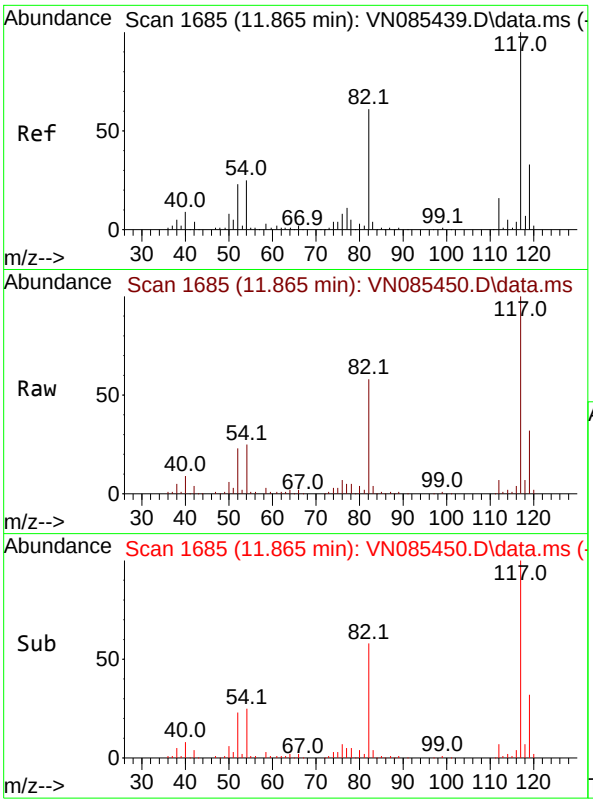


#62
4-Bromofluorobenzene
Concen: 49.491 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 95 Resp: 146069

Ion	Ratio	Lower	Upper
95	100		
174	73.5	0.0	145.0
176	70.2	0.0	142.4



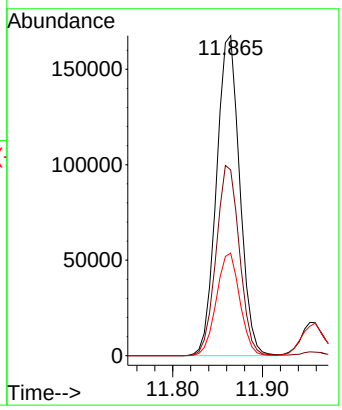


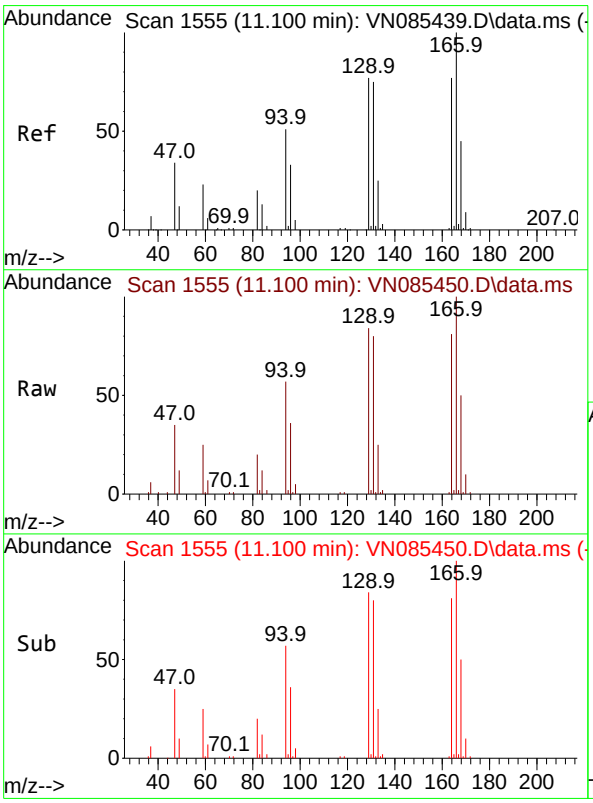
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Tgt Ion:117 Resp: 301633

Ion	Ratio	Lower	Upper
117	100		
82	58.1	48.6	72.8
119	32.1	26.6	39.8

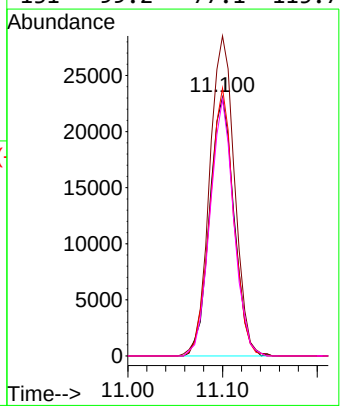


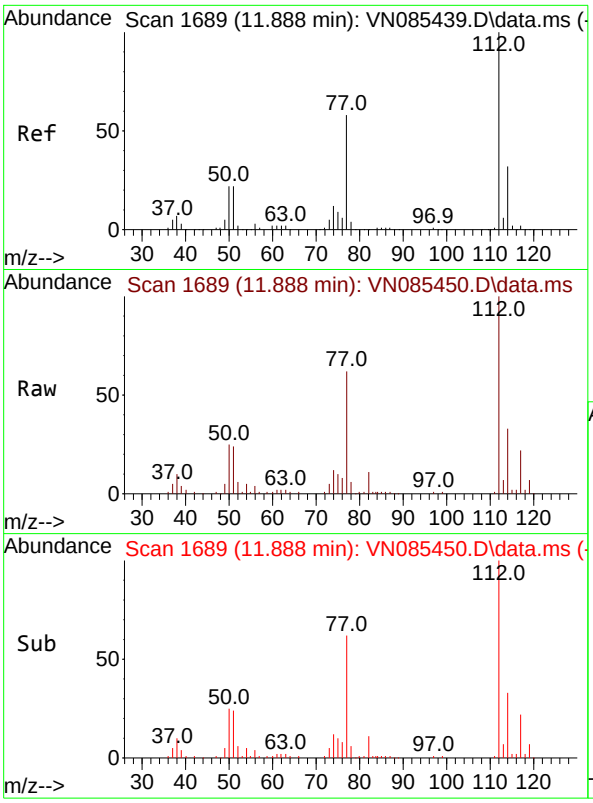


#64
Tetrachloroethene
Concen: 20.068 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion:164 Resp: 41267

Ion	Ratio	Lower	Upper
164	100		
166	123.7	103.4	155.2
129	103.5	79.2	118.8
131	99.2	77.1	115.7



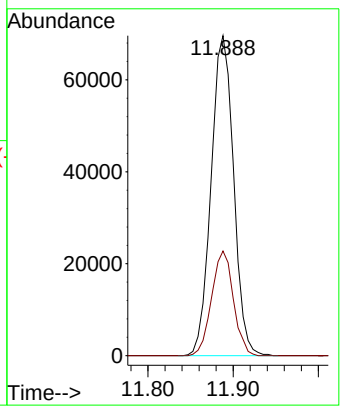


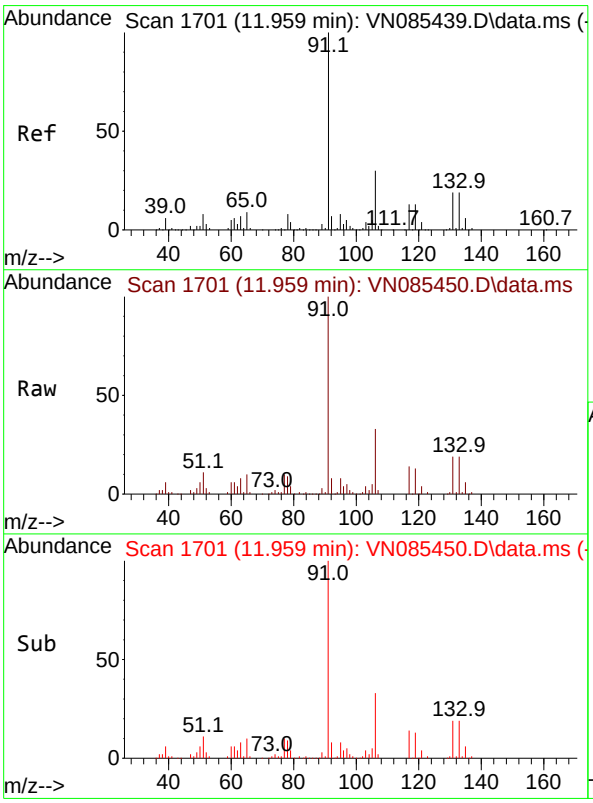
#65
Chlorobenzene
Concen: 19.304 ug/l
RT: 11.888 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Tgt Ion:112 Resp: 127557

Ion	Ratio	Lower	Upper
112	100		
114	32.7	25.3	37.9

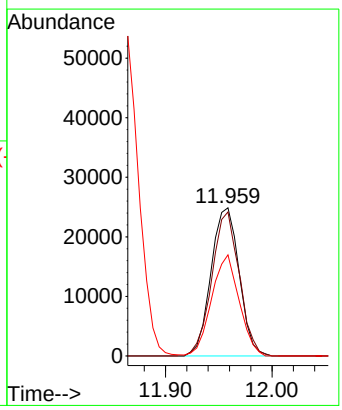


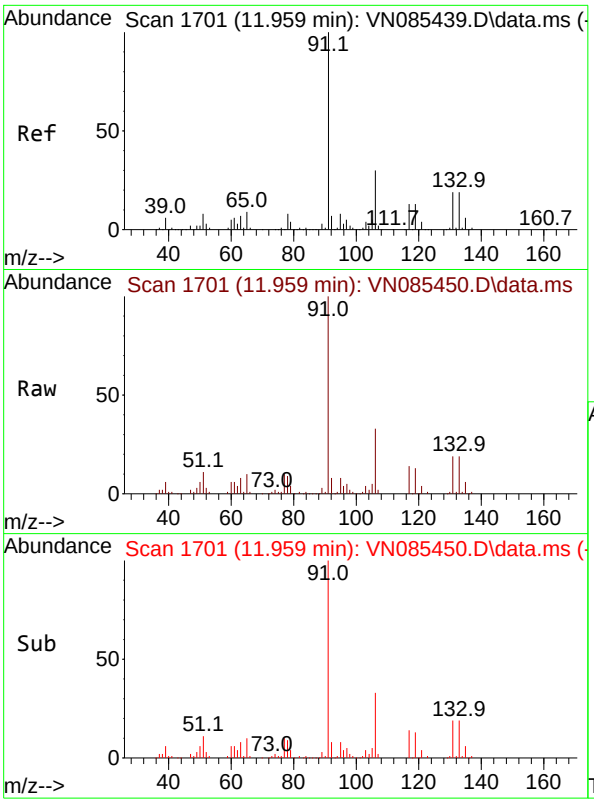


#66
1,1,1,2-Tetrachloroethane
Concen: 18.821 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion:131 Resp: 45645

Ion	Ratio	Lower	Upper
131	100		
133	94.9	47.4	142.3
119	66.9	33.1	99.5



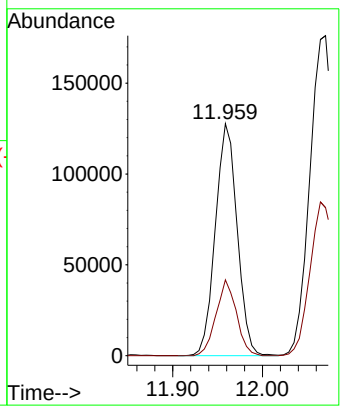


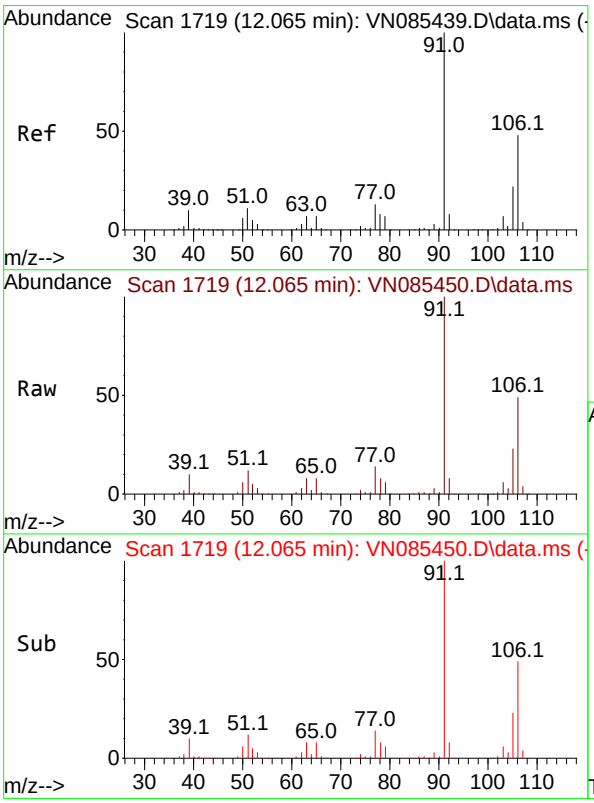
#67
Ethyl Benzene
Concen: 20.019 ug/l
RT: 11.959 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Tgt Ion: 91 Resp: 215448

Ion	Ratio	Lower	Upper
91	100		
106	32.7	23.8	35.8

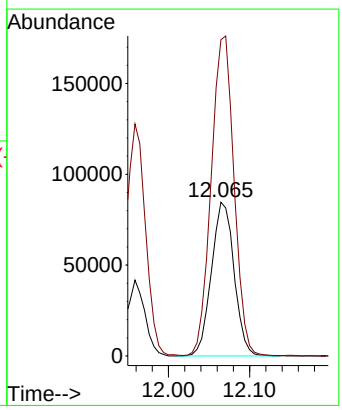


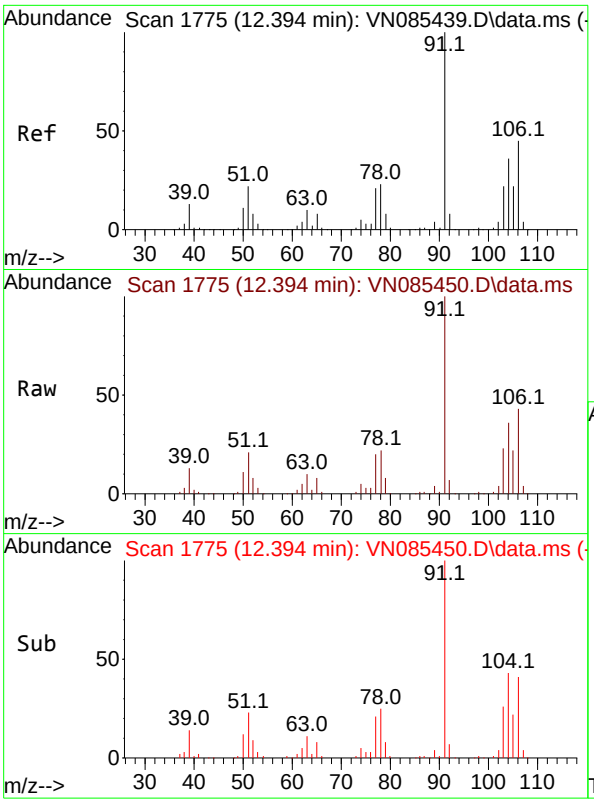


#68
m/p-Xylenes
Concen: 41.314 ug/l
RT: 12.065 min Scan# 1719
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion:106 Resp: 164329

Ion	Ratio	Lower	Upper
106	100		
91	209.5	167.7	251.5



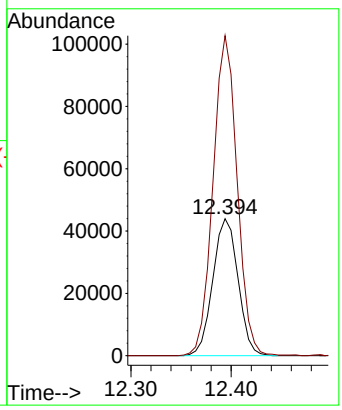


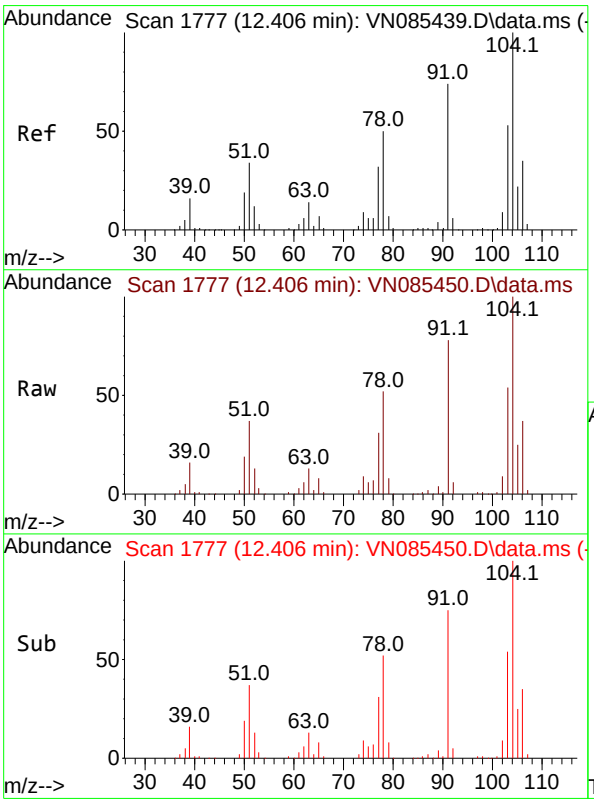
#69
o-Xylene
Concen: 20.184 ug/l
RT: 12.394 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Tgt Ion:106 Resp: 76723

Ion	Ratio	Lower	Upper
106	100		
91	223.5	110.4	331.2

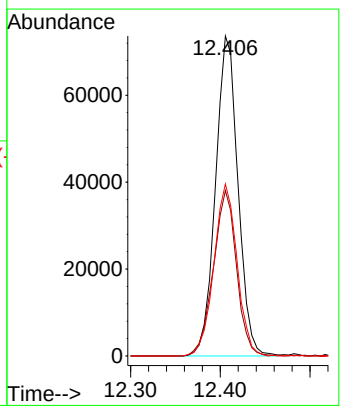


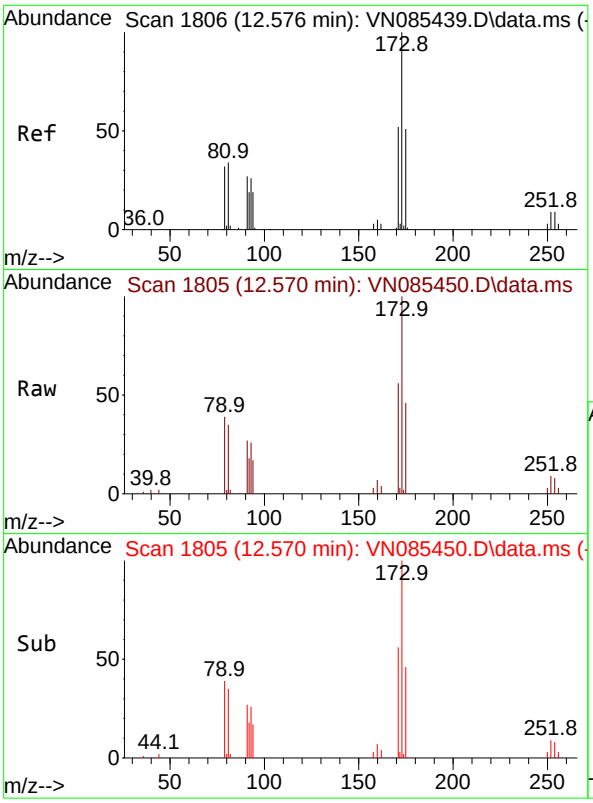


#70
Styrene
Concen: 20.358 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion:104 Resp: 128074

Ion	Ratio	Lower	Upper
104	100		
78	53.2	42.5	63.7
103	55.3	43.8	65.8



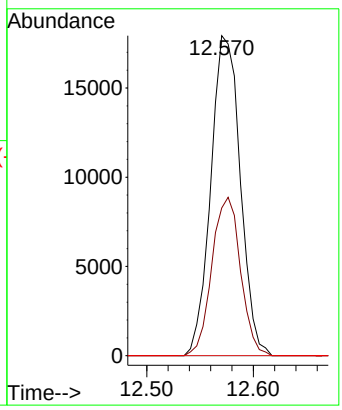


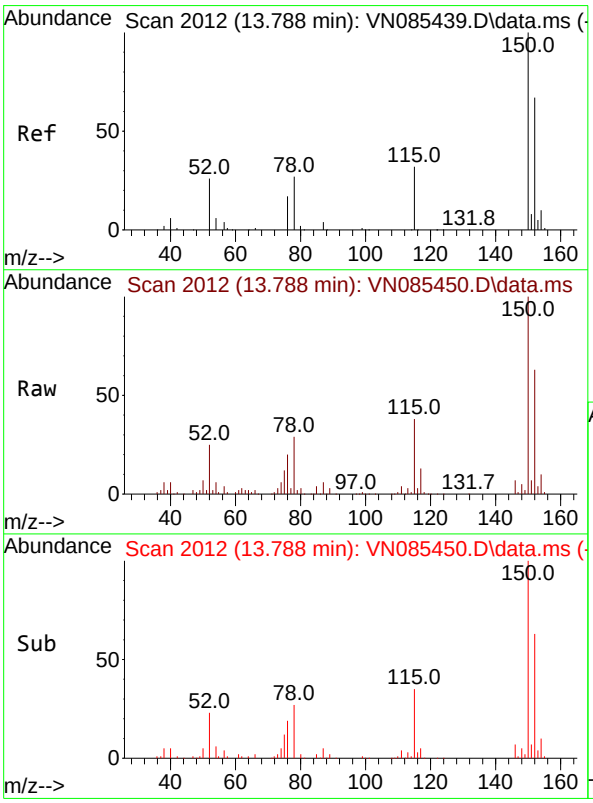
#71
Bromoform
Concen: 19.837 ug/l
RT: 12.570 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Tgt Ion:173 Resp: 34422

Ion	Ratio	Lower	Upper
173	100		
175	48.1	24.4	73.2
254	0.0	0.0	0.0

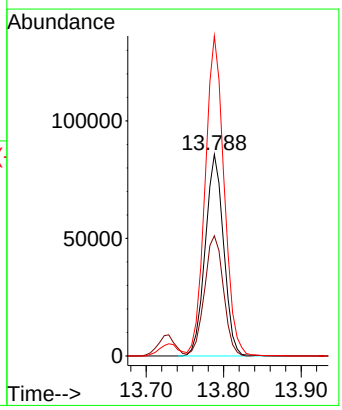


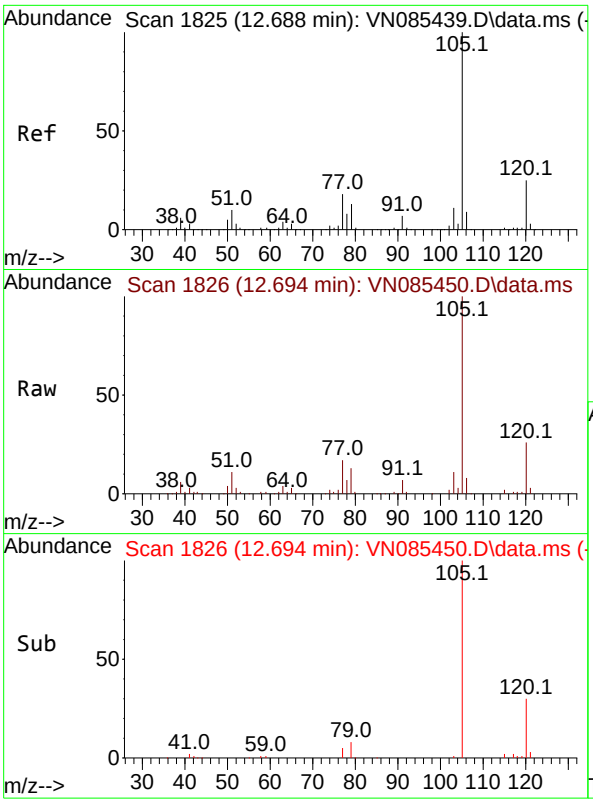


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion:152 Resp: 141189

Ion	Ratio	Lower	Upper
152	100		
115	61.5	31.1	93.3
150	163.3	0.0	343.6



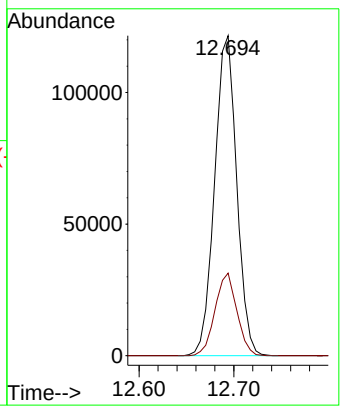


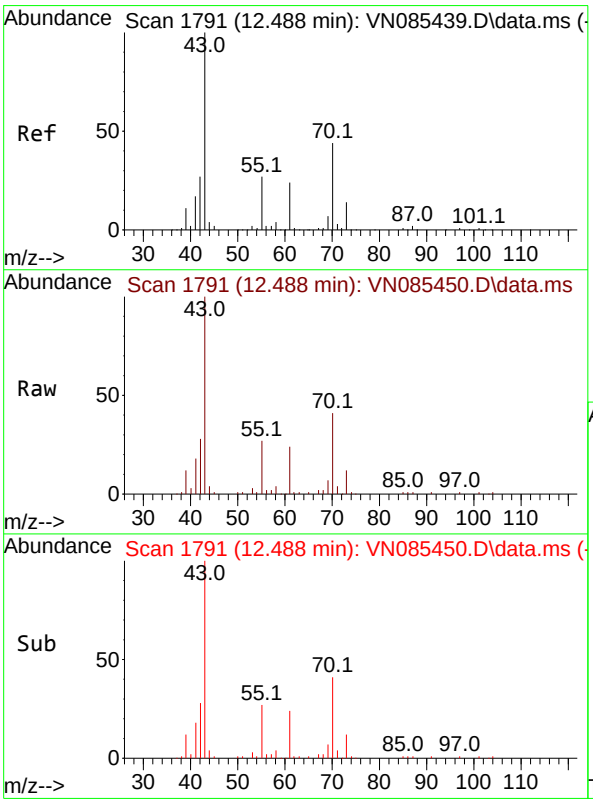
#73
Isopropylbenzene
Concen: 20.668 ug/l
RT: 12.694 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Tgt Ion:105 Resp: 196948

Ion	Ratio	Lower	Upper
105	100		
120	25.5	12.8	38.3

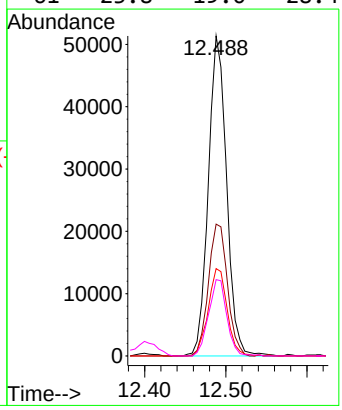


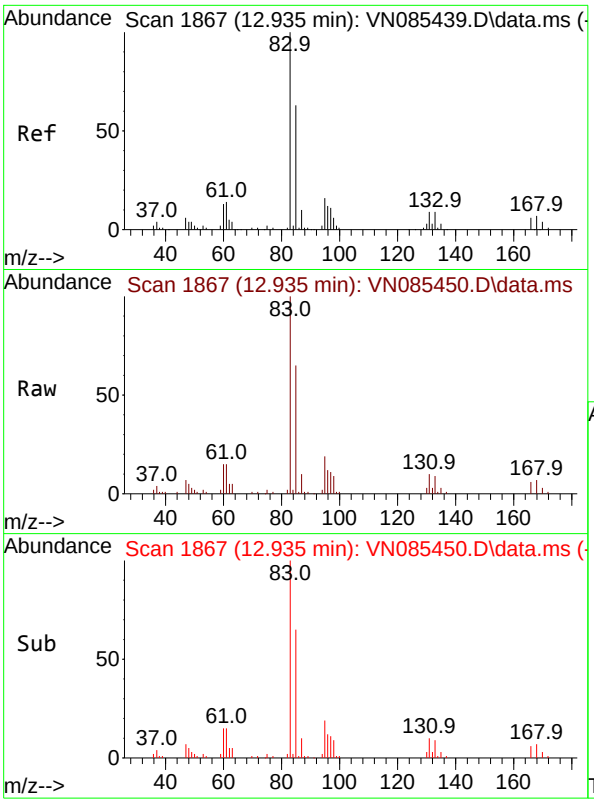


#74
N-amyl acetate
Concen: 18.746 ug/l
RT: 12.488 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 43 Resp: 80290

Ion	Ratio	Lower	Upper
43	100		
70	43.0	34.0	51.0
55	28.2	21.4	32.2
61	23.8	19.0	28.4



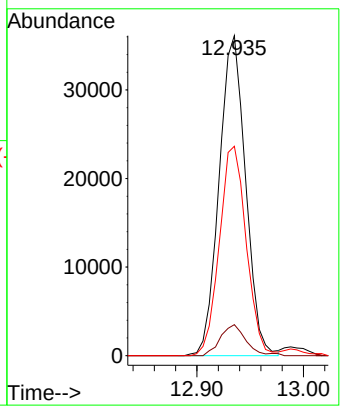


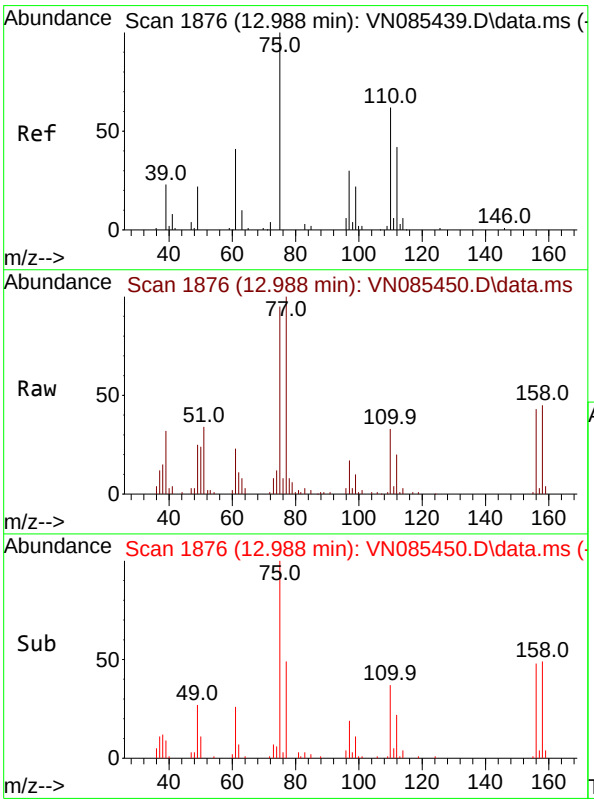
#75
1,1,2,2-Tetrachloroethane
Concen: 18.510 ug/l
RT: 12.935 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Tgt Ion: 83 Resp: 62306

Ion	Ratio	Lower	Upper
83	100		
131	9.4	4.8	14.4
85	66.2	32.2	96.6

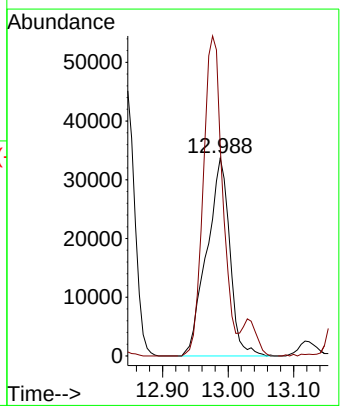


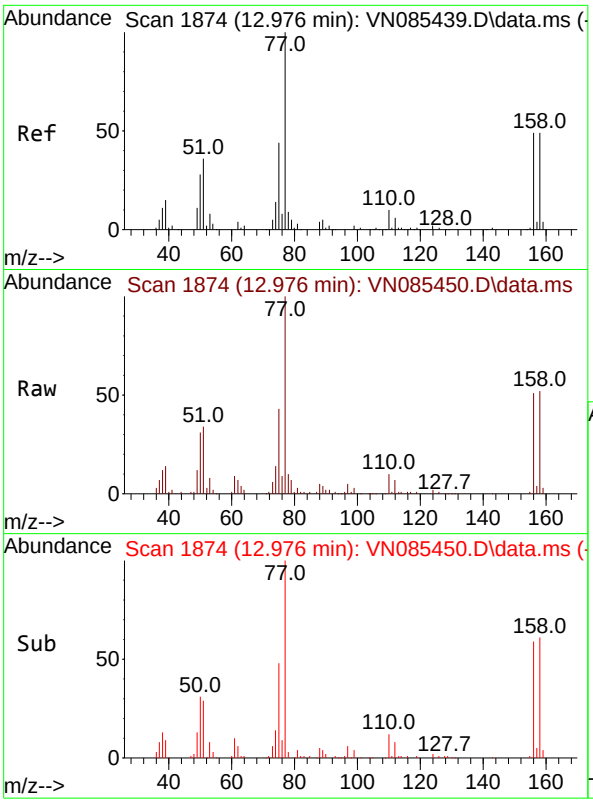


#76
1,2,3-Trichloropropane
Concen: 28.604 ug/l
RT: 12.988 min Scan# 1876
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 75 Resp: 82085

Ion	Ratio	Lower	Upper
75	100		
77	136.8	109.7	329.2



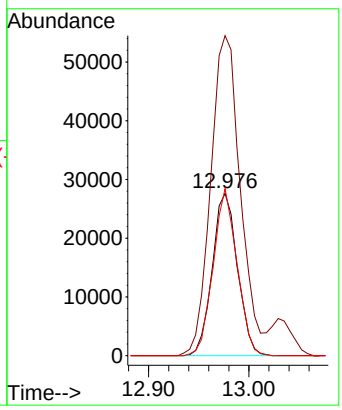


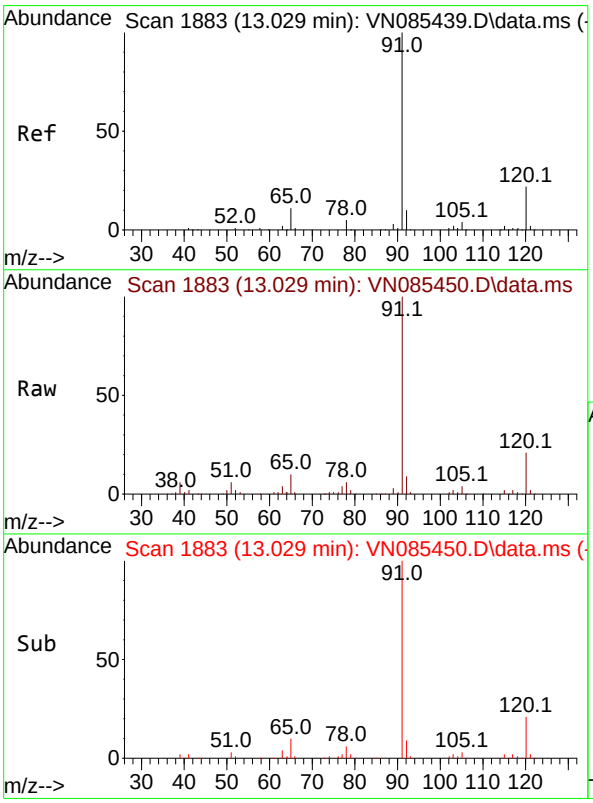
#77
Bromobenzene
Concen: 19.283 ug/l
RT: 12.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Tgt Ion:156 Resp: 48006

Ion	Ratio	Lower	Upper
156	100		
77	233.9	114.1	342.4
158	97.9	48.9	146.8

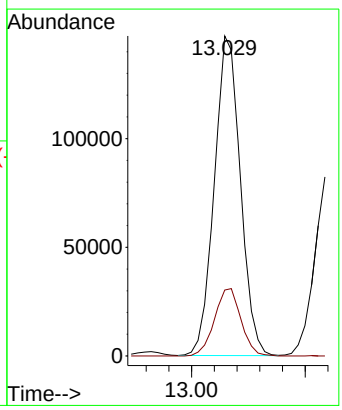


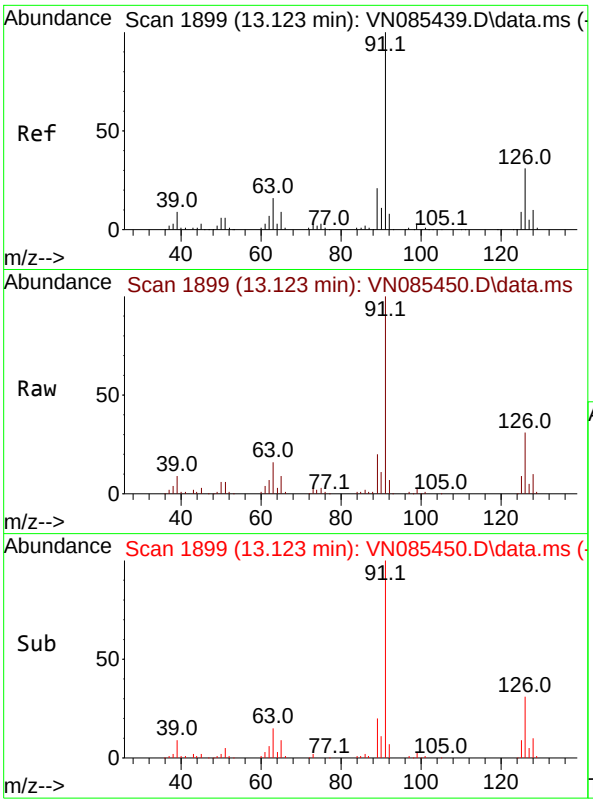


#78
n-propylbenzene
Concen: 20.759 ug/l
RT: 13.029 min Scan# 1883
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 91 Resp: 234178

Ion	Ratio	Lower	Upper
91	100		
120	21.4	10.9	32.6



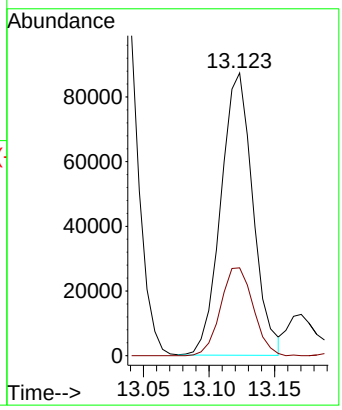


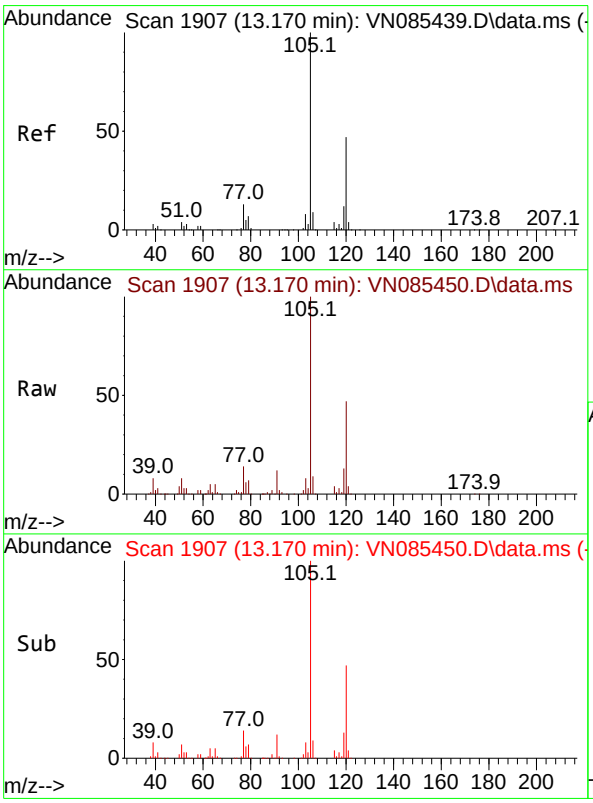
#79
2-Chlorotoluene
Concen: 20.351 ug/l
RT: 13.123 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Tgt Ion: 91 Resp: 148584

Ion	Ratio	Lower	Upper
91	100		
126	31.7	15.7	47.1

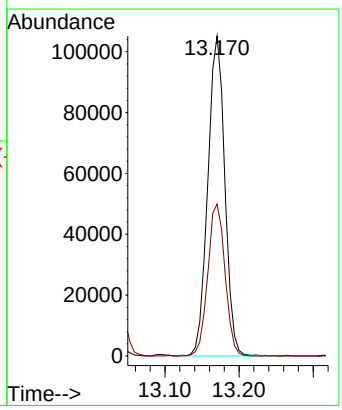


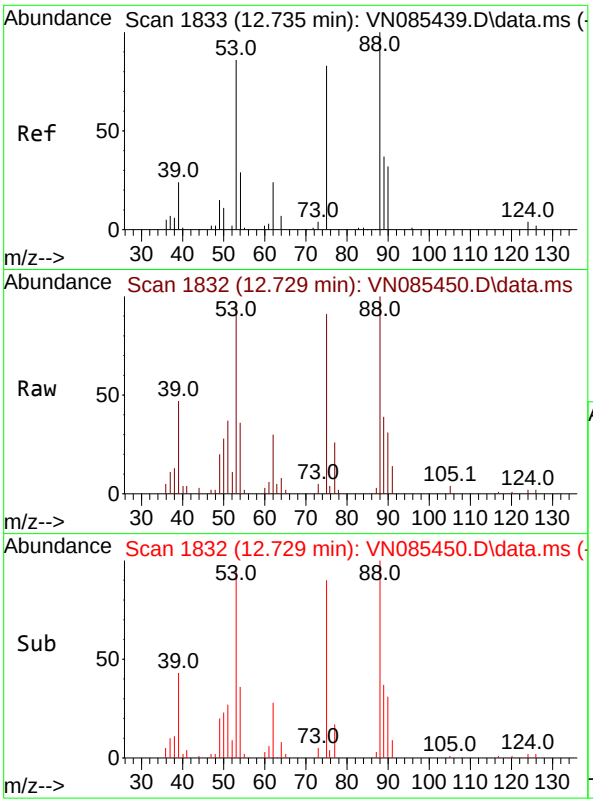


#80
1,3,5-Trimethylbenzene
Concen: 21.282 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion:105 Resp: 167516

Ion	Ratio	Lower	Upper
105	100		
120	48.1	23.9	71.7



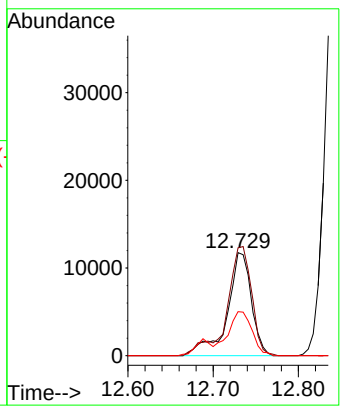


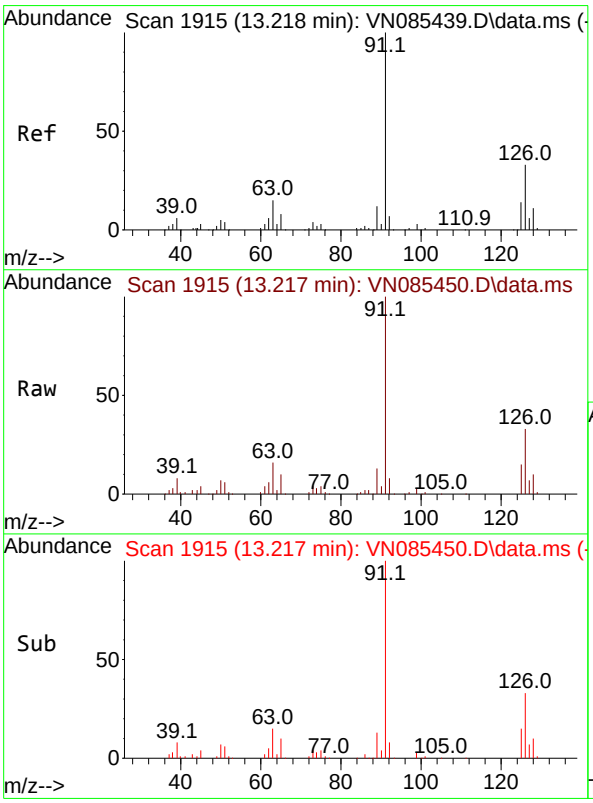
#81
trans-1,4-Dichloro-2-butene
Concen: 21.817 ug/l
RT: 12.729 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Tgt Ion: 75 Resp: 23140

Ion	Ratio	Lower	Upper
75	100		
53	108.7	95.6	143.4
89	42.6	37.0	55.6

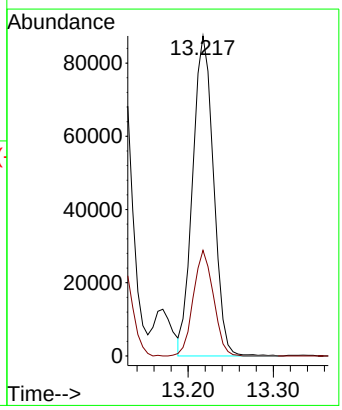


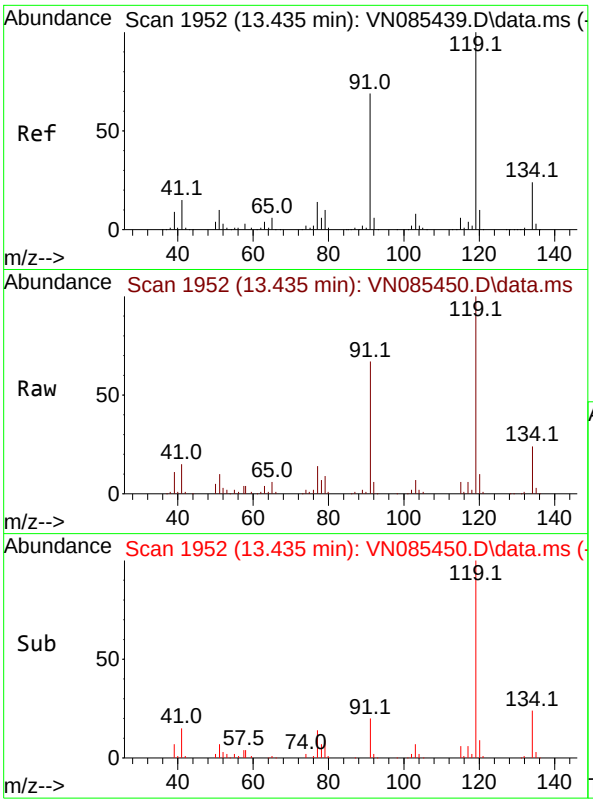


#82
4-Chlorotoluene
Concen: 20.481 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 91 Resp: 148888

Ion	Ratio	Lower	Upper
91	100		
126	31.8	15.9	47.7



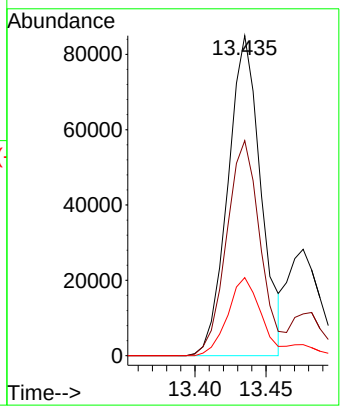


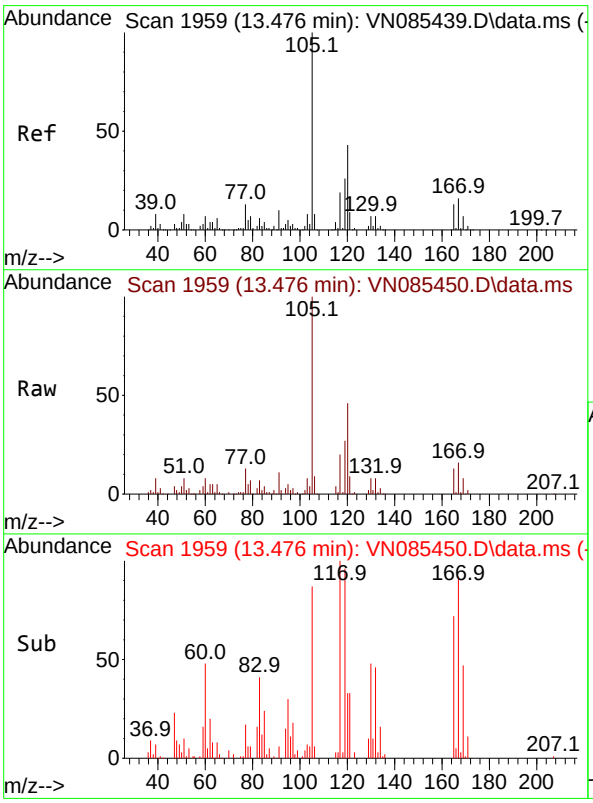
#83
tert-Butylbenzene
Concen: 20.748 ug/l
RT: 13.435 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Tgt Ion:119 Resp: 137144

Ion	Ratio	Lower	Upper
119	100		
91	69.5	35.1	105.3
134	24.7	12.0	36.1

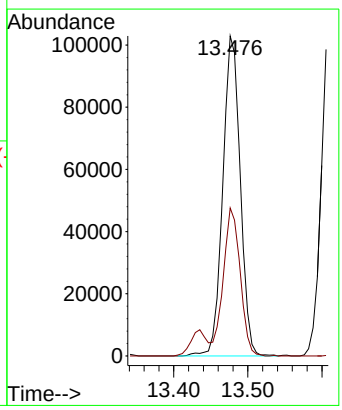


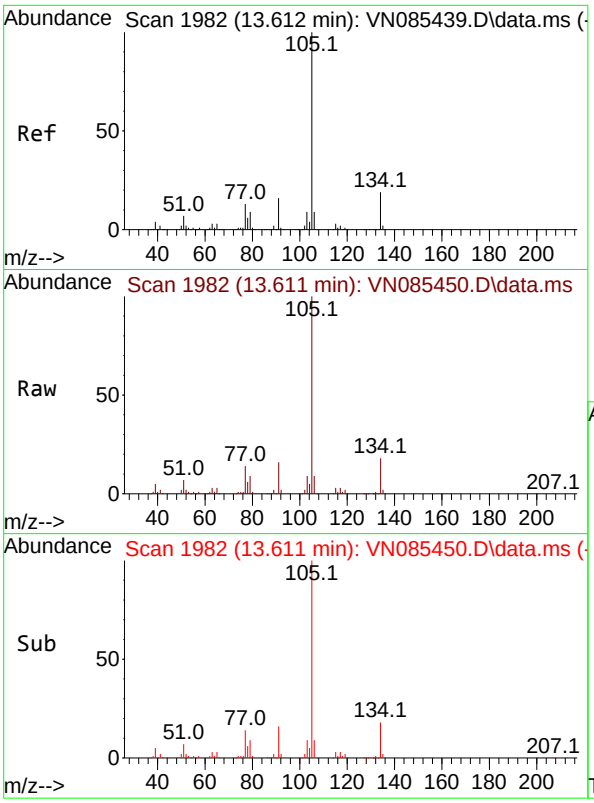


#84
1,2,4-Trimethylbenzene
Concen: 21.493 ug/l
RT: 13.476 min Scan# 1959
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion:105 Resp: 168611

Ion	Ratio	Lower	Upper
105	100		
120	45.1	21.6	65.0



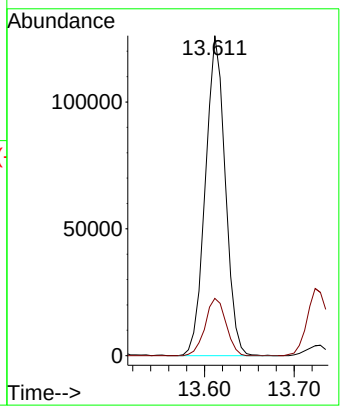


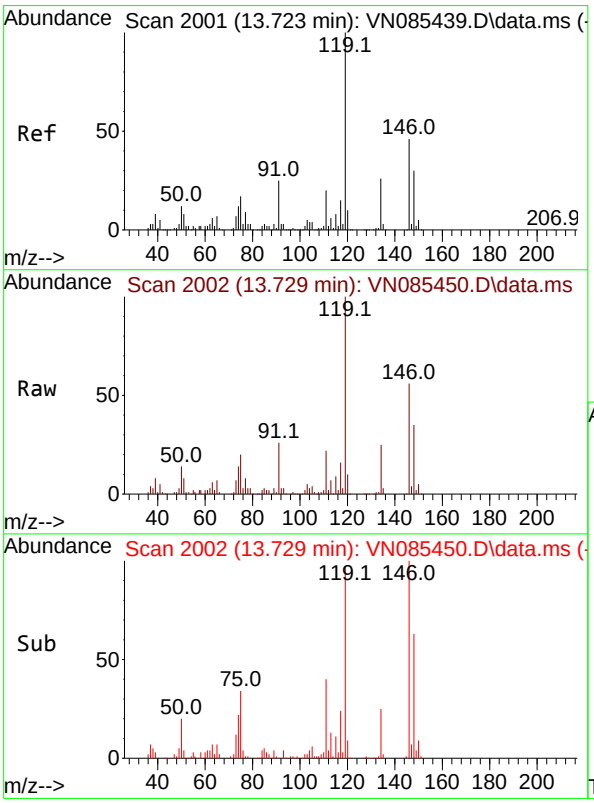
#85
sec-Butylbenzene
Concen: 21.140 ug/l
RT: 13.611 min Scan# 1
Delta R.T. -0.001 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Tgt Ion:105 Resp: 193667

Ion	Ratio	Lower	Upper
105	100		
134	18.8	9.7	28.9

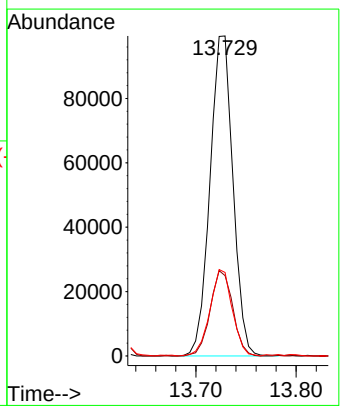


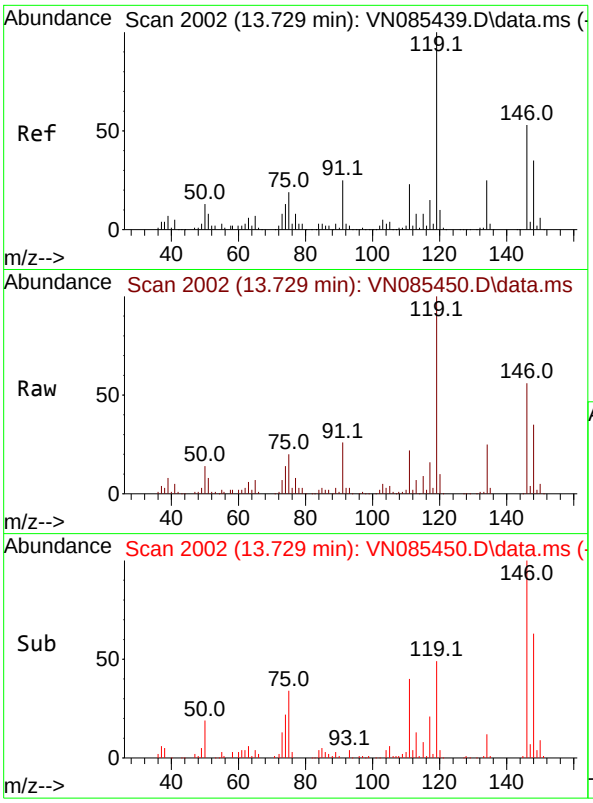


#86
p-Isopropyltoluene
Concen: 20.730 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion:119 Resp: 158593

Ion	Ratio	Lower	Upper
119	100		
134	26.1	12.7	38.0
91	26.2	12.7	38.1



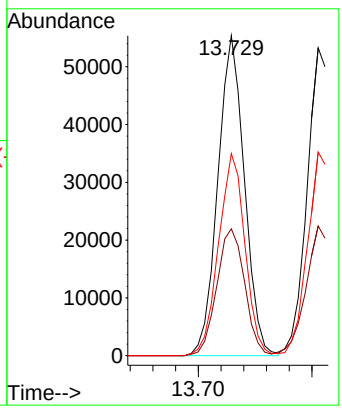


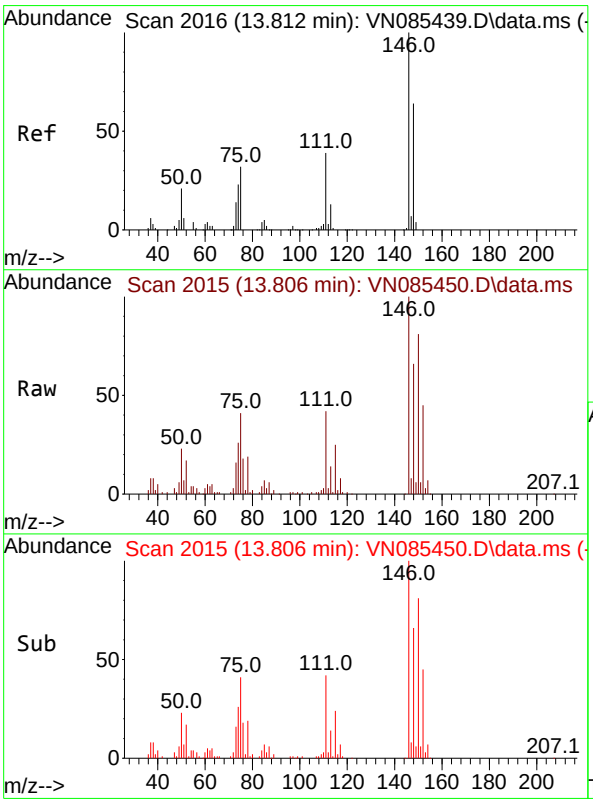
#87
1,3-Dichlorobenzene
Concen: 19.629 ug/l
RT: 13.729 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Tgt Ion:146 Resp: 89998

Ion	Ratio	Lower	Upper
146	100		
111	41.6	21.4	64.3
148	62.7	32.3	96.9

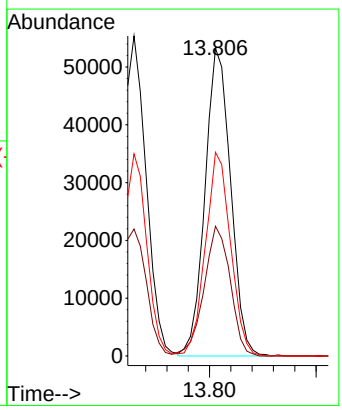


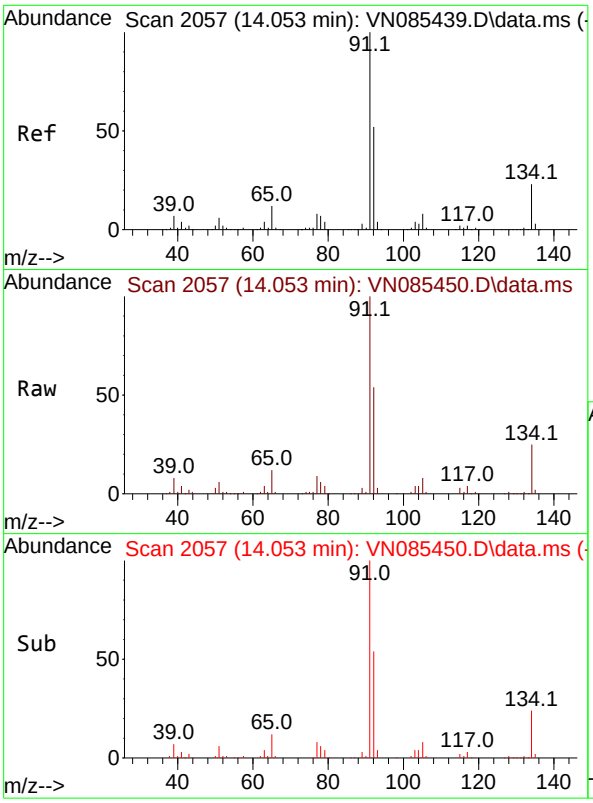


#88
1,4-Dichlorobenzene
Concen: 18.721 ug/l
RT: 13.806 min Scan# 2015
Delta R.T. -0.006 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion:146 Resp: 88968

Ion	Ratio	Lower	Upper
146	100		
111	43.2	21.3	63.7
148	65.2	32.4	97.0



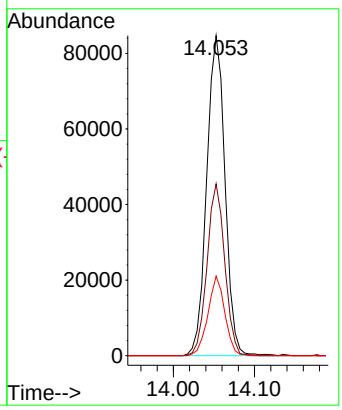


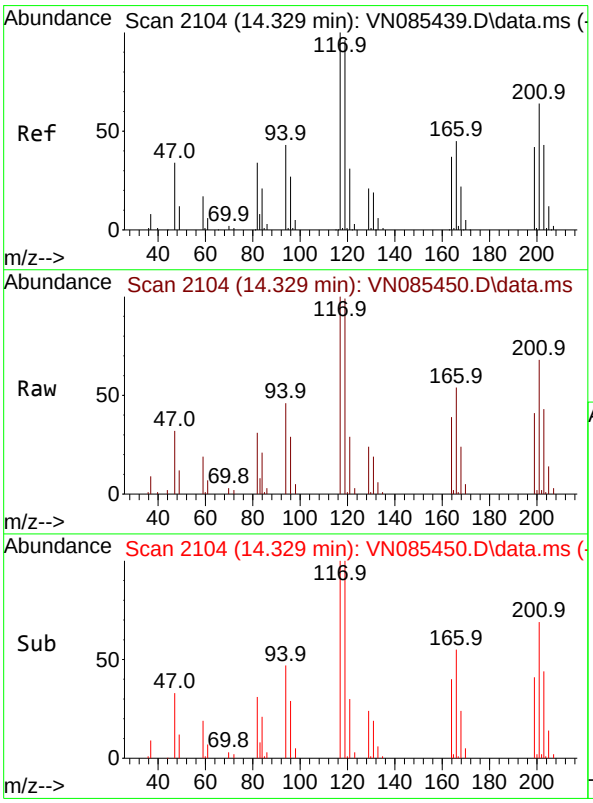
#89
n-Butylbenzene
Concen: 20.147 ug/l
RT: 14.053 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Tgt Ion: 91 Resp: 132410

Ion	Ratio	Lower	Upper
91	100		
92	52.0	25.8	77.3
134	22.9	11.7	35.1

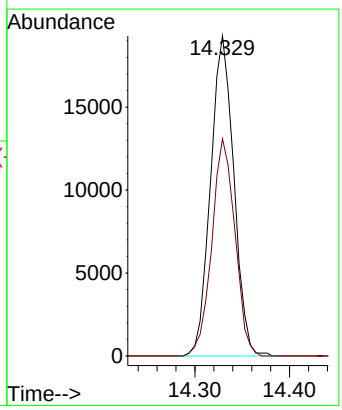


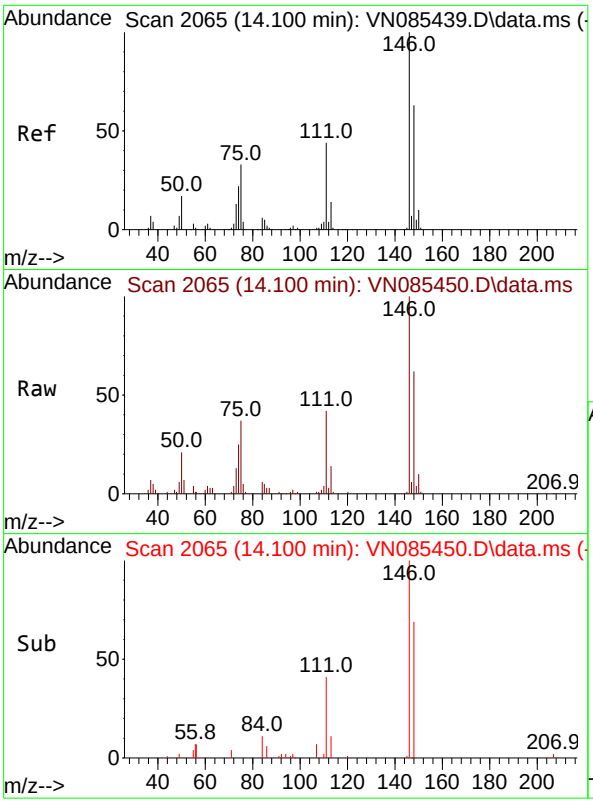


#90
Hexachloroethane
Concen: 18.850 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion:117 Resp: 32875

Ion	Ratio	Lower	Upper
117	100		
201	67.6	33.7	101.0



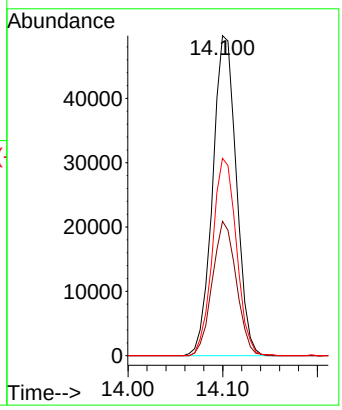


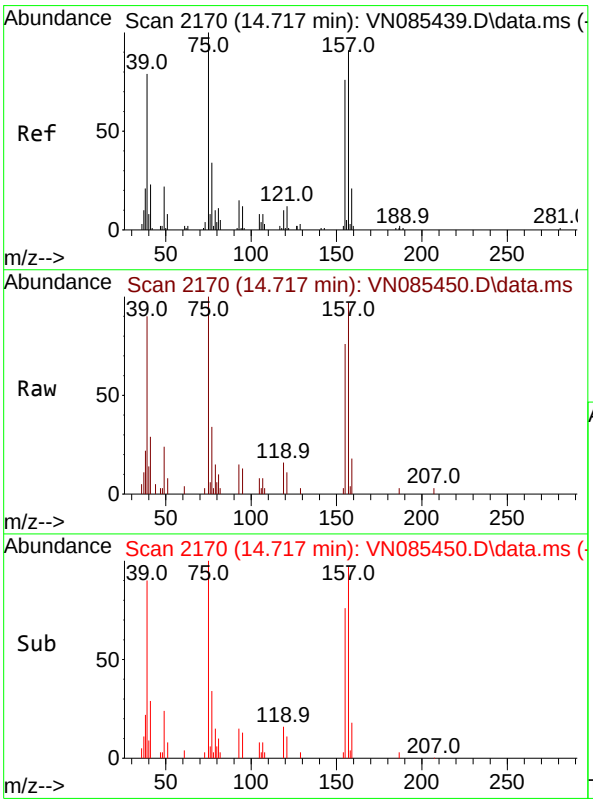
#91
1,2-Dichlorobenzene
Concen: 18.933 ug/l
RT: 14.100 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Tgt Ion:146 Resp: 86586

Ion	Ratio	Lower	Upper
146	100		
111	42.4	21.7	65.1
148	62.3	31.4	94.2

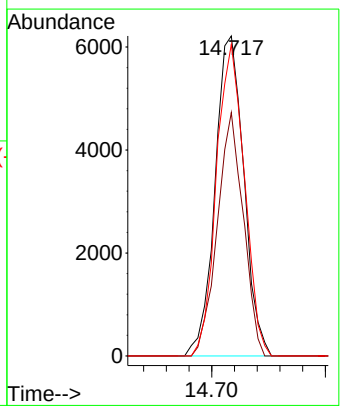


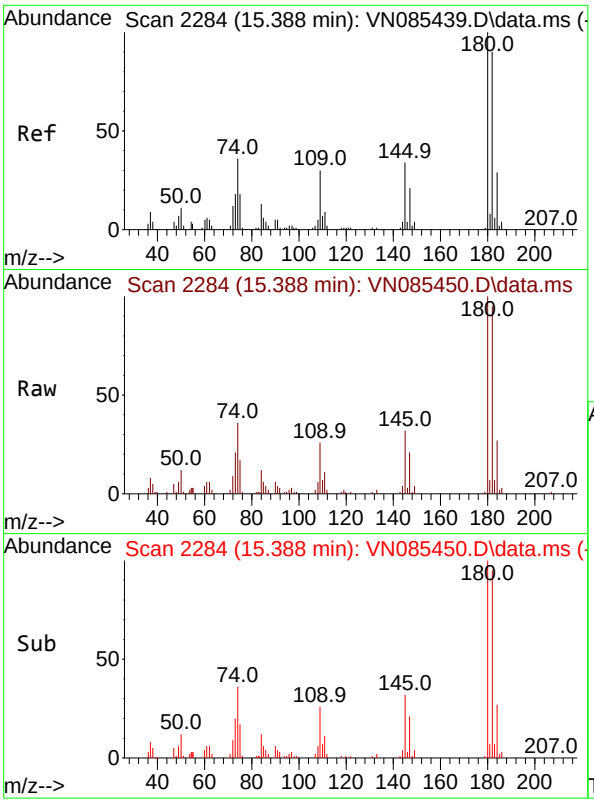


#92
1,2-Dibromo-3-Chloropropane
Concen: 17.740 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion: 75 Resp: 10904

Ion	Ratio	Lower	Upper
75	100		
155	69.0	36.4	109.2
157	94.7	45.4	136.1



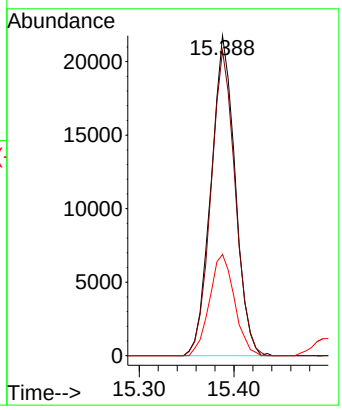


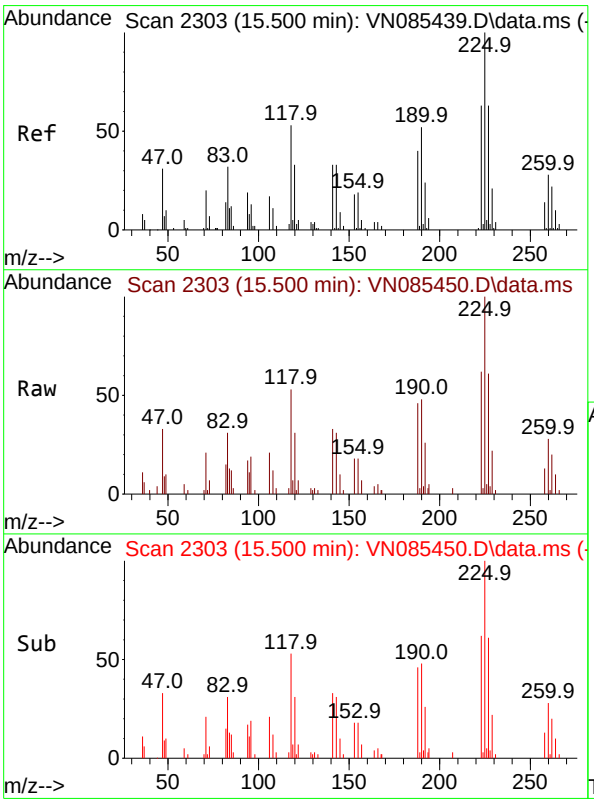
#93
1,2,4-Trichlorobenzene
Concen: 18.095 ug/l
RT: 15.388 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Tgt Ion:180 Resp: 38461

Ion	Ratio	Lower	Upper
180	100		
182	95.9	46.8	140.3
145	32.7	16.0	48.0

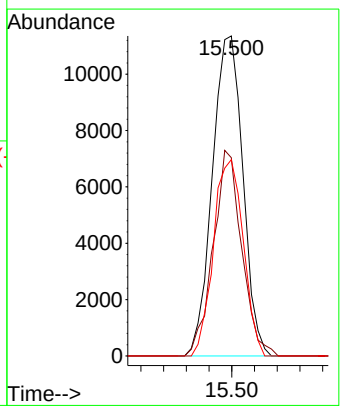


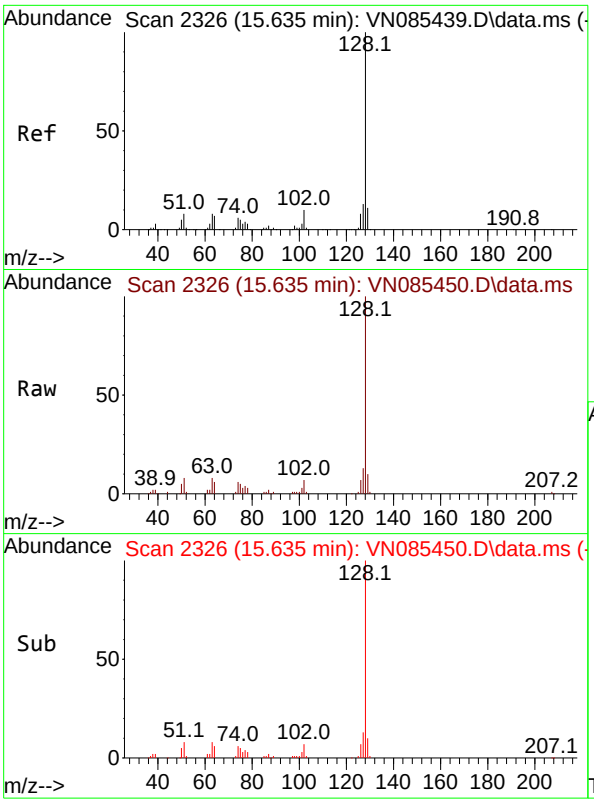


#94
Hexachlorobutadiene
Concen: 18.761 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion:225 Resp: 21171

Ion	Ratio	Lower	Upper
225	100		
223	60.1	30.7	92.1
227	60.0	30.9	92.5



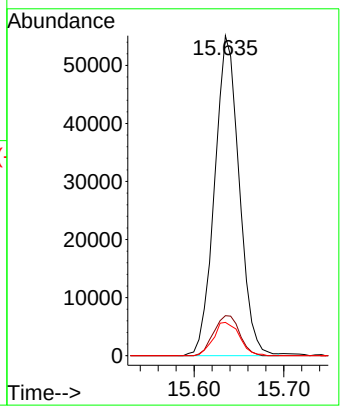


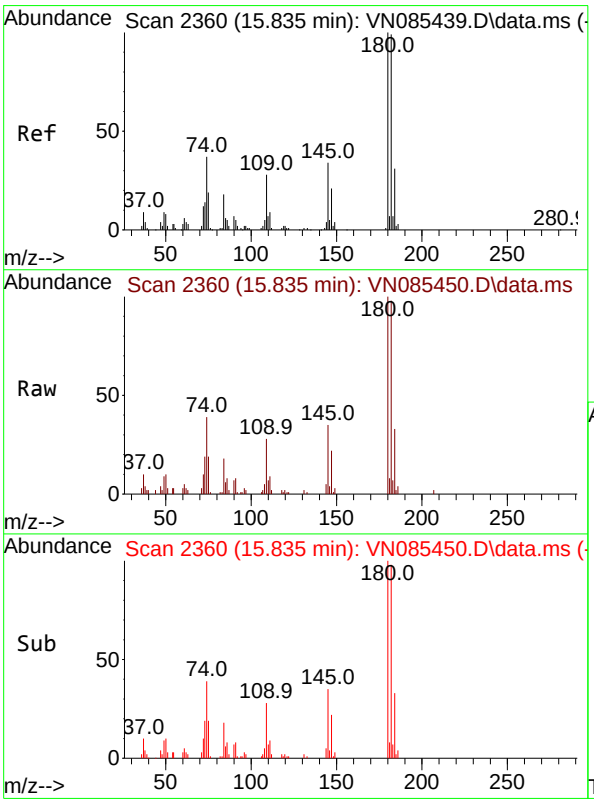
#95
Naphthalene
Concen: 16.518 ug/l
RT: 15.635 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBS01

Tgt Ion:128 Resp: 104770

Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.6	16.0
129	11.0	8.8	13.2

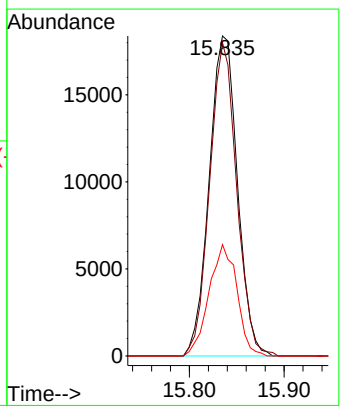




#96
1,2,3-Trichlorobenzene
Concen: 17.704 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VN085450.D
Acq: 15 Jan 2025 10:29

Tgt Ion:180 Resp: 38077

Ion	Ratio	Lower	Upper
180	100		
182	93.7	47.4	142.2
145	34.4	16.9	50.7



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085451.D
Acq On : 15 Jan 2025 11:02
Operator : JC\MD
Sample : VN0115WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Quant Time: Jan 16 00:54:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.218	168	188898	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	323122	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	286298	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	136502	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.576	65	149231	48.941	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 97.880%			
35) Dibromofluoromethane	8.159	113	110423	49.259	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.520%			
50) Toluene-d8	10.565	98	399040	50.102	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.200%			
62) 4-Bromofluorobenzene	12.847	95	137216	50.364	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 100.720%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	50526	19.755	ug/l	95
3) Chloromethane	2.359	50	53907	19.467	ug/l	98
4) Vinyl Chloride	2.512	62	53251	19.131	ug/l	98
5) Bromomethane	2.965	94	32421	19.283	ug/l	95
6) Chloroethane	3.124	64	32723	18.543	ug/l	98
7) Trichlorofluoromethane	3.506	101	79391	19.658	ug/l	98
8) Diethyl Ether	3.965	74	26011	18.643	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.365	101	44531	19.576	ug/l	99
10) Methyl Iodide	4.594	142	52886	20.302	ug/l	95
11) Tert butyl alcohol	5.500	59	33491	95.920	ug/l	100
12) 1,1-Dichloroethene	4.341	96	39080	19.277	ug/l	98
13) Acrolein	4.171	56	55291	116.005	ug/l	99
14) Allyl chloride	5.030	41	63692	19.361	ug/l	99
15) Acrylonitrile	5.712	53	108425	97.766	ug/l	99
16) Acetone	4.418	43	93485	94.887	ug/l	98
17) Carbon Disulfide	4.718	76	112944	18.094	ug/l	99
18) Methyl Acetate	5.012	43	58686	19.589	ug/l	100
19) Methyl tert-butyl Ether	5.788	73	138775	21.081	ug/l	98
20) Methylene Chloride	5.271	84	49058	20.114	ug/l	98
21) trans-1,2-Dichloroethene	5.783	96	43073	19.880	ug/l	93
22) Diisopropyl ether	6.665	45	156331	21.410	ug/l	97
23) Vinyl Acetate	6.600	43	604101	118.221	ug/l	98
24) 1,1-Dichloroethane	6.565	63	88831	19.952	ug/l	99
25) 2-Butanone	7.477	43	141498	97.595	ug/l	93
26) 2,2-Dichloropropane	7.488	77	78212	21.728	ug/l	99
27) cis-1,2-Dichloroethene	7.482	96	50200	19.672	ug/l	95
28) Bromochloromethane	7.806	49	38238	18.460	ug/l	100
29) Tetrahydrofuran	7.835	42	93959	102.217	ug/l	99
30) Chloroform	7.965	83	92715	20.149	ug/l	98
31) Cyclohexane	8.247	56	72255	18.672	ug/l	97
32) 1,1,1-Trichloroethane	8.165	97	80190	19.867	ug/l	98
36) 1,1-Dichloropropene	8.371	75	61822	19.650	ug/l	98
37) Ethyl Acetate	7.553	43	59684	18.795	ug/l	97
38) Carbon Tetrachloride	8.359	117	71714	19.911	ug/l	97
39) Methylcyclohexane	9.600	83	59161	20.011	ug/l	93
40) Benzene	8.600	78	189640	20.061	ug/l	99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085451.D
Acq On : 15 Jan 2025 11:02
Operator : JC\MD
Sample : VN0115WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Quant Time: Jan 16 00:54:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.771	41	31866	19.288	ug/l		99
42) 1,2-Dichloroethane	8.665	62	73669	20.692	ug/l		98
43) Isopropyl Acetate	8.682	43	100283	19.708	ug/l		99
44) Trichloroethene	9.347	130	44329	20.145	ug/l		97
45) 1,2-Dichloropropane	9.618	63	48696	20.167	ug/l		99
46) Dibromomethane	9.706	93	34080	19.561	ug/l		97
47) Bromodichloromethane	9.882	83	74218	20.909	ug/l		99
48) Methyl methacrylate	9.676	41	46655	20.374	ug/l		99
49) 1,4-Dioxane	9.688	88	14983	388.550	ug/l	#	76
51) 4-Methyl-2-Pentanone	10.441	43	300611	101.808	ug/l		100
52) Toluene	10.623	92	117631	21.476	ug/l		97
53) t-1,3-Dichloropropene	10.829	75	68014	20.276	ug/l		96
54) cis-1,3-Dichloropropene	10.306	75	75146	20.973	ug/l		100
55) 1,1,2-Trichloroethane	11.012	97	45220	20.861	ug/l		98
56) Ethyl methacrylate	10.870	69	63954	18.769	ug/l		98
57) 1,3-Dichloropropane	11.159	76	76979	20.424	ug/l		98
58) 2-Chloroethyl Vinyl ether	10.159	63	148262	107.782	ug/l		97
59) 2-Hexanone	11.188	43	211689	101.890	ug/l		99
60) Dibromochloromethane	11.353	129	52957	20.236	ug/l		100
61) 1,2-Dibromoethane	11.465	107	42146	19.533	ug/l		100
64) Tetrachloroethene	11.100	164	40480	20.740	ug/l		97
65) Chlorobenzene	11.888	112	122590	19.546	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.959	131	44850	19.484	ug/l		100
67) Ethyl Benzene	11.959	91	208196	20.381	ug/l		100
68) m/p-Xylenes	12.070	106	160511	42.515	ug/l		98
69) o-Xylene	12.394	106	75509	20.928	ug/l		99
70) Styrene	12.406	104	124126	20.788	ug/l		100
71) Bromoform	12.576	173	34000	20.643	ug/l	#	99
73) Isopropylbenzene	12.694	105	189617	20.582	ug/l		99
74) N-amyl acetate	12.488	43	81241	19.619	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.935	83	61871	19.012	ug/l		99
76) 1,2,3-Trichloropropane	12.988	75	79469	28.643	ug/l		49
77) Bromobenzene	12.976	156	48489	20.145	ug/l		98
78) n-propylbenzene	13.035	91	228827	20.981	ug/l		100
79) 2-Chlorotoluene	13.123	91	143092	20.272	ug/l		99
80) 1,3,5-Trimethylbenzene	13.170	105	163195	21.445	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.729	75	22916	22.347	ug/l	#	78
82) 4-Chlorotoluene	13.217	91	144513	20.562	ug/l		99
83) tert-Butylbenzene	13.435	119	131013	20.501	ug/l		99
84) 1,2,4-Trimethylbenzene	13.476	105	164079	21.634	ug/l		100
85) sec-Butylbenzene	13.611	105	189519	21.398	ug/l		99
86) p-Isopropyltoluene	13.723	119	153867	20.798	ug/l		99
87) 1,3-Dichlorobenzene	13.729	146	89126	20.107	ug/l		99
88) 1,4-Dichlorobenzene	13.806	146	87559	19.057	ug/l		99
89) n-Butylbenzene	14.053	91	128246	20.183	ug/l		100
90) Hexachloroethane	14.329	117	31733	18.820	ug/l		100
91) 1,2-Dichlorobenzene	14.106	146	83864	18.967	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	14.717	75	10944	18.416	ug/l		99
93) 1,2,4-Trichlorobenzene	15.388	180	39555	19.248	ug/l		98
94) Hexachlorobutadiene	15.500	225	20590	18.872	ug/l		98
95) Naphthalene	15.635	128	106293	17.334	ug/l		99
96) 1,2,3-Trichlorobenzene	15.841	180	39966	19.221	ug/l		99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085451.D
Acq On : 15 Jan 2025 11:02
Operator : JC\MD
Sample : VN0115WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Quant Time: Jan 16 00:54:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

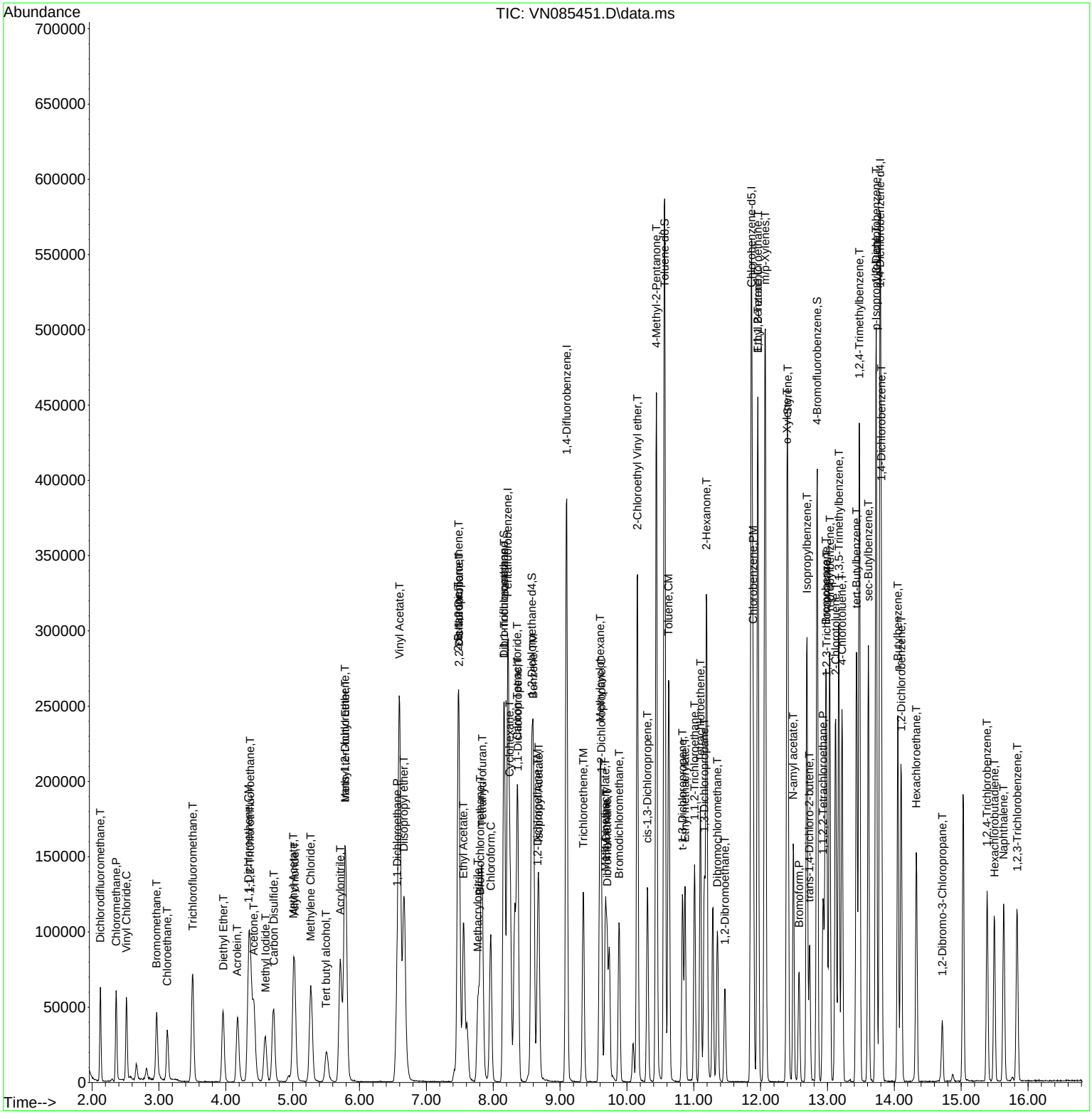
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

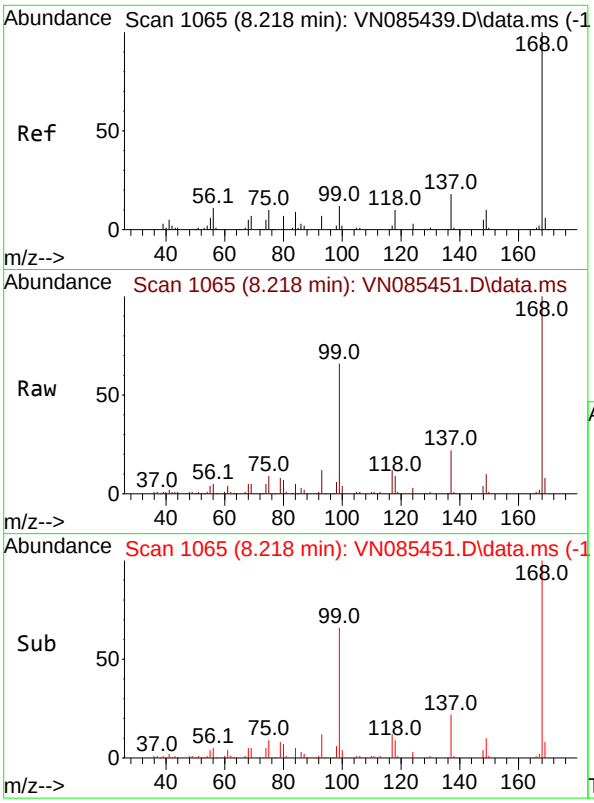
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085451.D
Acq On : 15 Jan 2025 11:02
Operator : JC\MD
Sample : VN0115WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Quant Time: Jan 16 00:54:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration



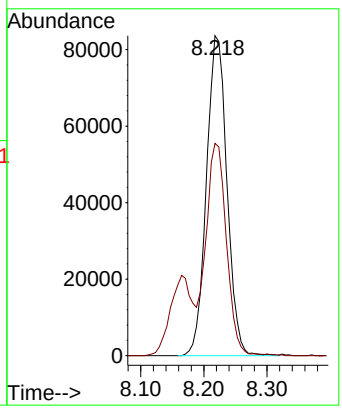


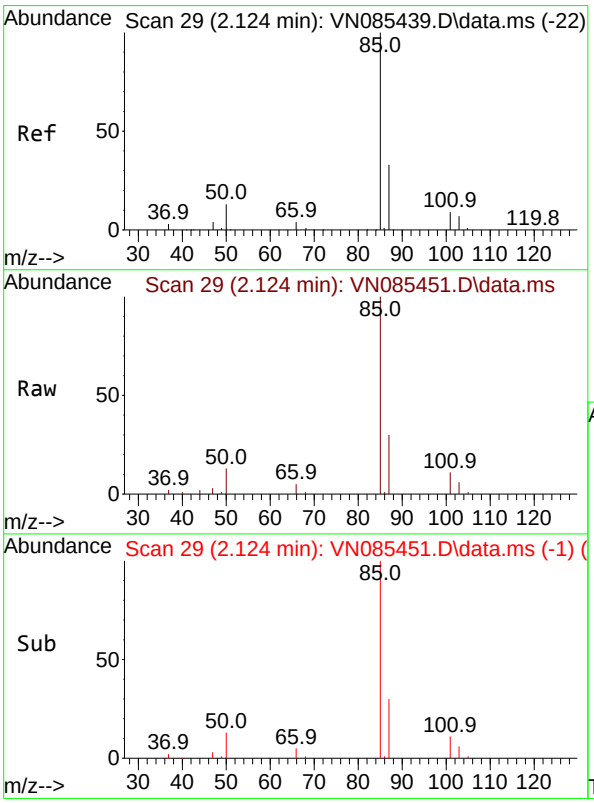
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Tgt Ion:168 Resp: 188898

Ion	Ratio	Lower	Upper
168	100		
99	66.1	53.6	80.4

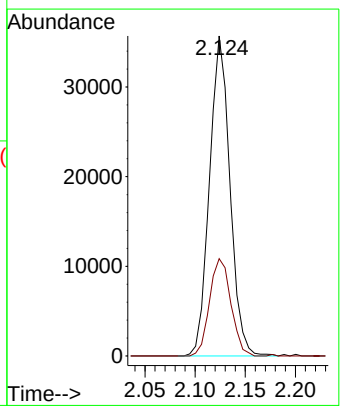


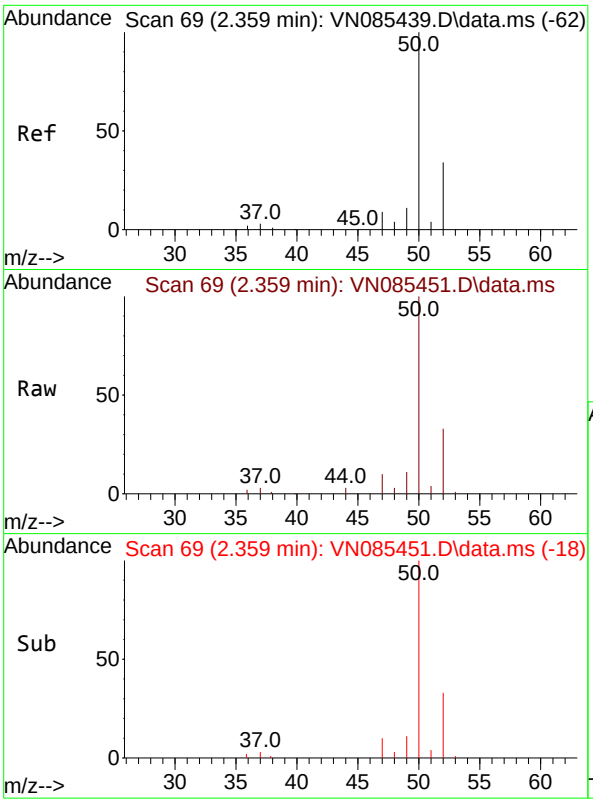


#2
Dichlorodifluoromethane
Concen: 19.755 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 85 Resp: 50526

Ion	Ratio	Lower	Upper
85	100		
87	30.4	16.7	50.1



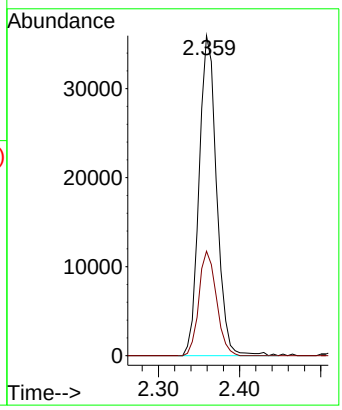


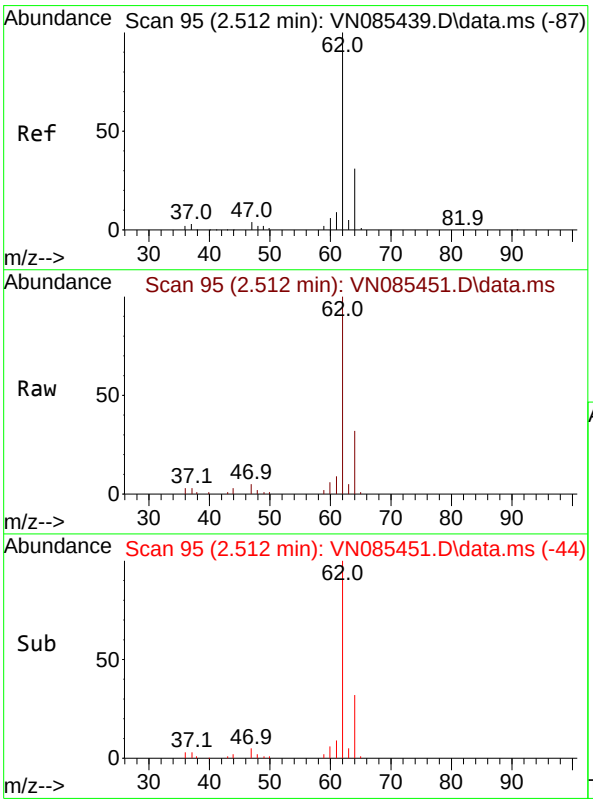
#3
Chloromethane
Concen: 19.467 ug/l
RT: 2.359 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Tgt Ion: 50 Resp: 53907

Ion	Ratio	Lower	Upper
50	100		
52	32.6	27.0	40.6

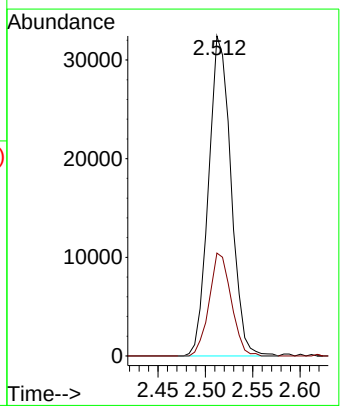


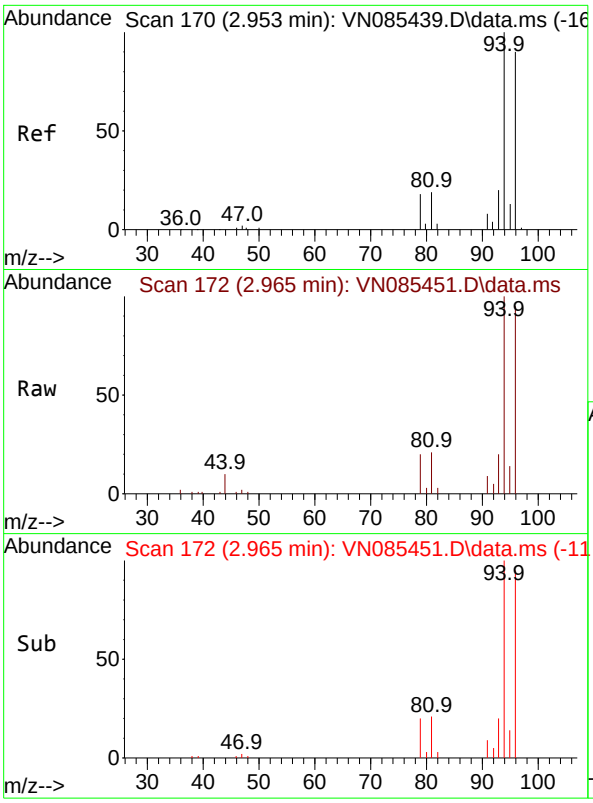


#4
Vinyl Chloride
Concen: 19.131 ug/l
RT: 2.512 min Scan# 95
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 62 Resp: 53251

Ion	Ratio	Lower	Upper
62	100		
64	32.1	24.8	37.2



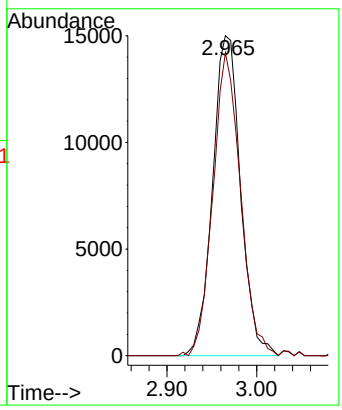


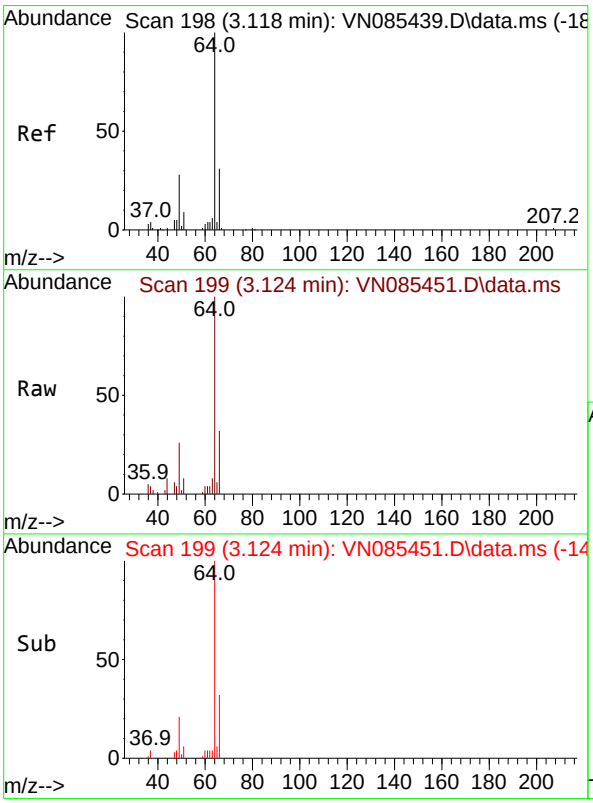
#5
Bromomethane
Concen: 19.283 ug/l
RT: 2.965 min Scan# 1
Delta R.T. 0.012 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Tgt Ion: 94 Resp: 32421

Ion	Ratio	Lower	Upper
94	100		
96	94.7	71.8	107.6

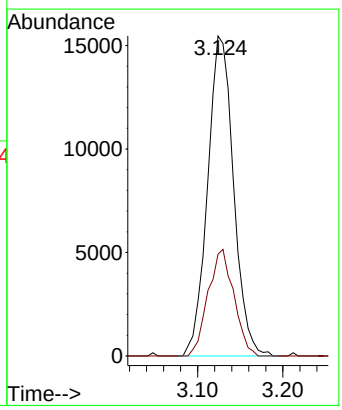


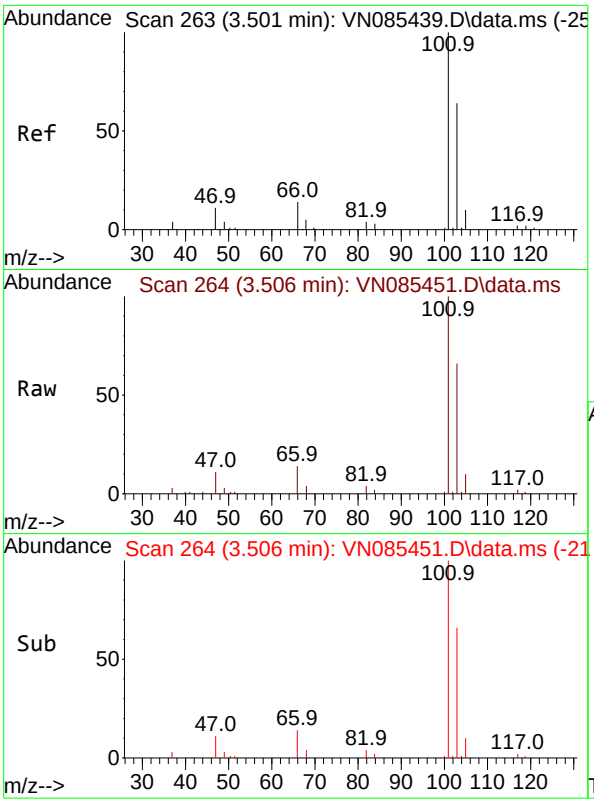


#6
Chloroethane
Concen: 18.543 ug/l
RT: 3.124 min Scan# 199
Delta R.T. 0.006 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 64 Resp: 32723

Ion	Ratio	Lower	Upper
64	100		
66	31.8	24.6	36.8



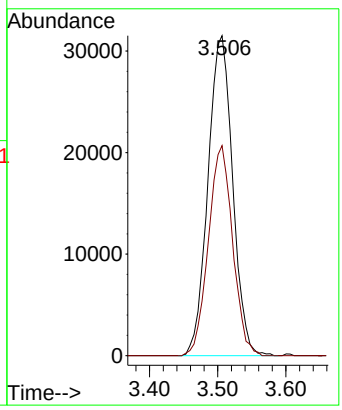


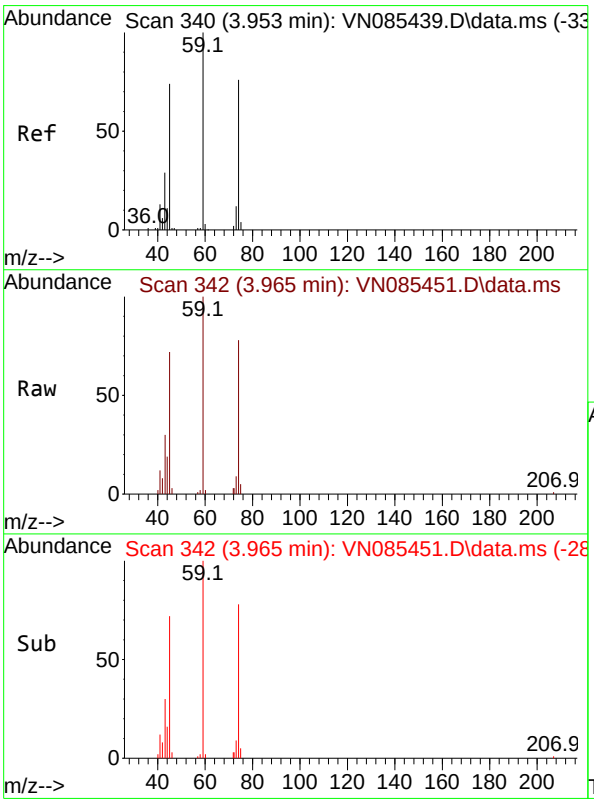
#7
Trichlorofluoromethane
Concen: 19.658 ug/l
RT: 3.506 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Tgt Ion:101 Resp: 79391

Ion	Ratio	Lower	Upper
101	100		
103	65.7	51.4	77.2

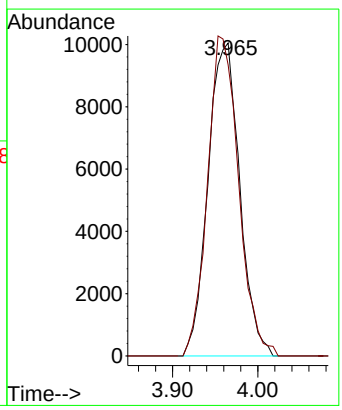


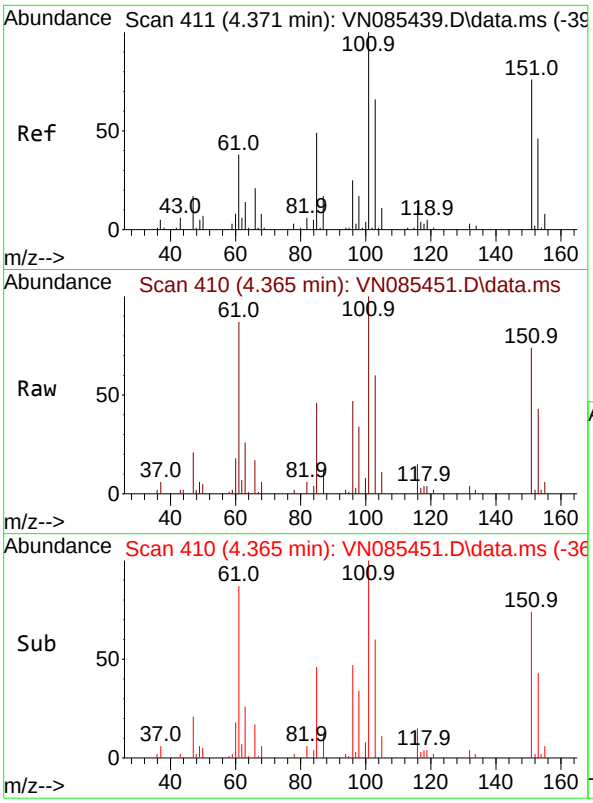


#8
Diethyl Ether
Concen: 18.643 ug/l
RT: 3.965 min Scan# 342
Delta R.T. 0.012 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 74 Resp: 26011

Ion	Ratio	Lower	Upper
74	100		
45	100.1	49.7	149.1



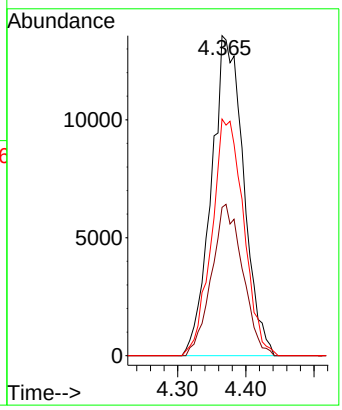


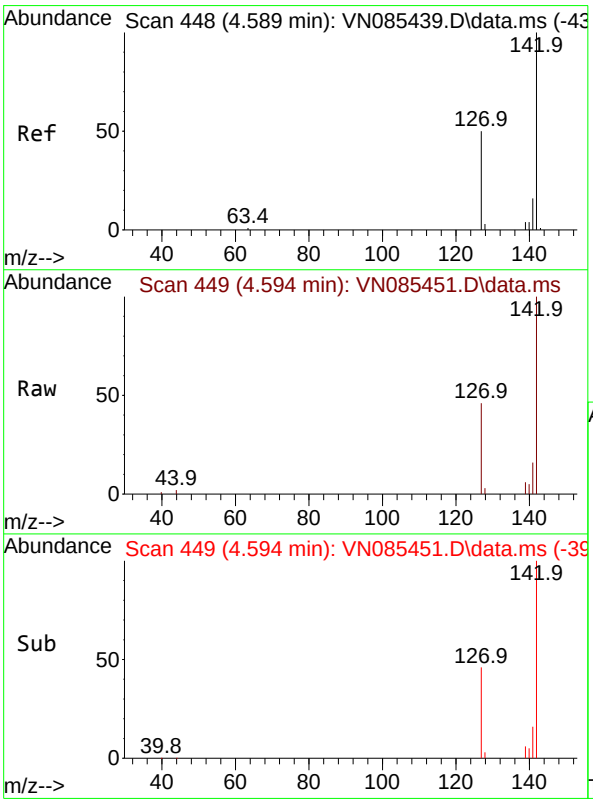
#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.576 ug/l
RT: 4.365 min Scan# 41
Delta R.T. -0.006 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Tgt Ion:101 Resp: 44531

Ion	Ratio	Lower	Upper
101	100		
85	45.8	37.8	56.8
151	73.3	58.8	88.2

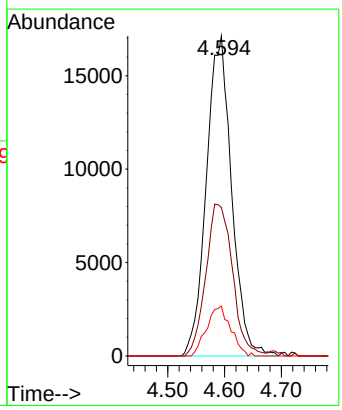


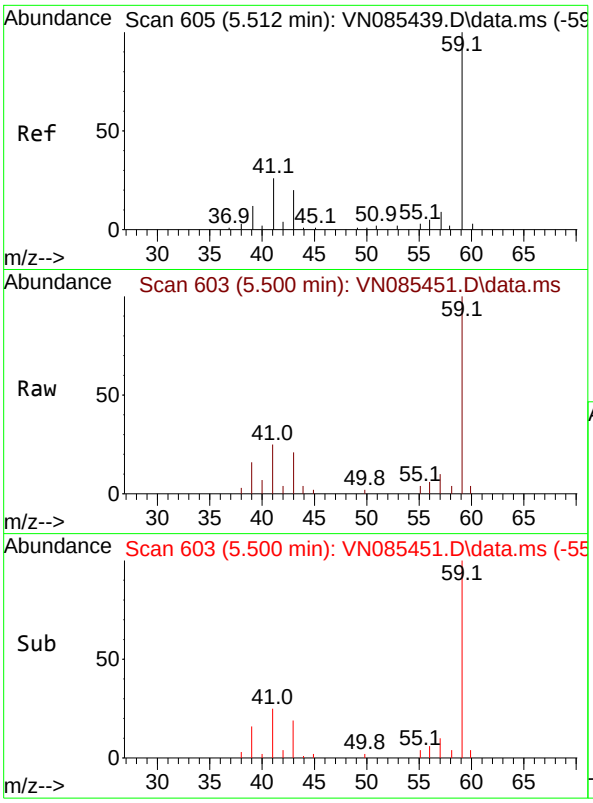


#10
Methyl Iodide
Concen: 20.302 ug/l
RT: 4.594 min Scan# 449
Delta R.T. 0.006 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion:142 Resp: 52886

Ion	Ratio	Lower	Upper
142	100		
127	46.4	40.3	60.5
141	15.6	12.8	19.2



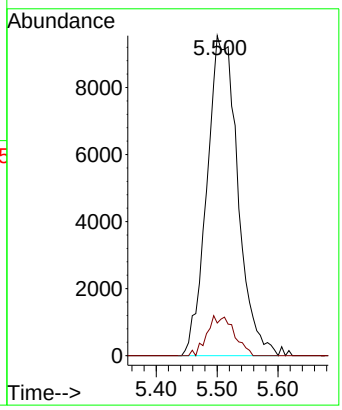


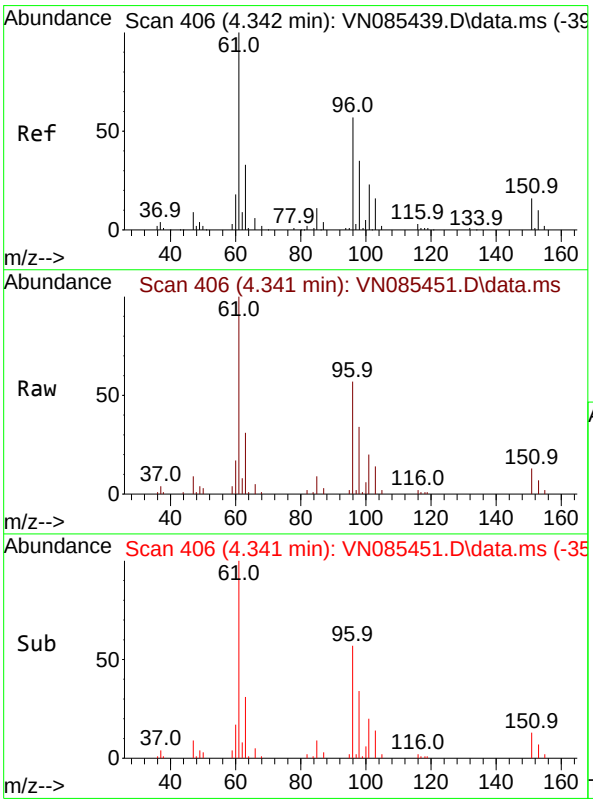
#11
Tert butyl alcohol
Concen: 95.920 ug/l
RT: 5.500 min Scan# 6
Delta R.T. -0.012 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Tgt Ion: 59 Resp: 33491

Ion	Ratio	Lower	Upper
59	100		
57	10.9	8.6	13.0

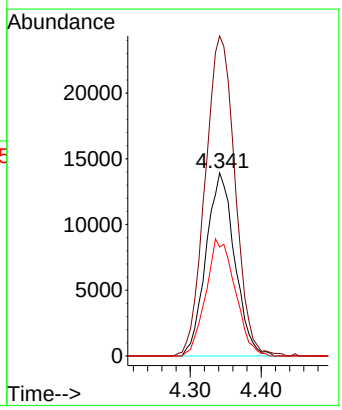


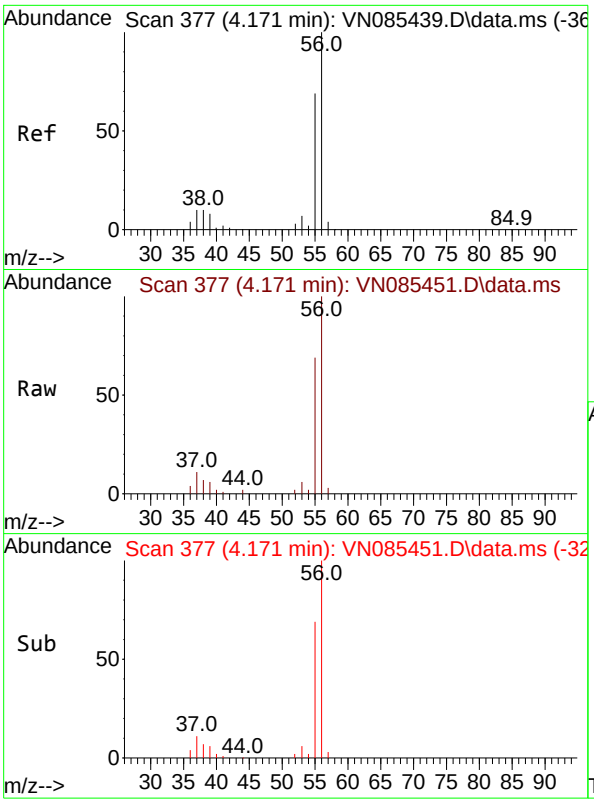


#12
1,1-Dichloroethene
Concen: 19.277 ug/l
RT: 4.341 min Scan# 406
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 96 Resp: 39080

Ion	Ratio	Lower	Upper
96	100		
61	173.3	141.0	211.4
98	59.5	49.0	73.6



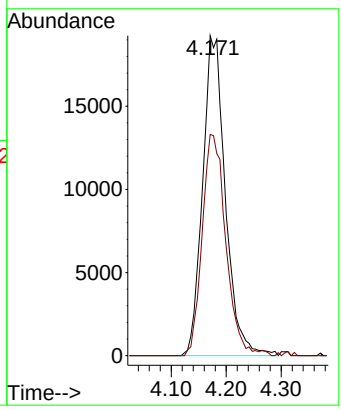


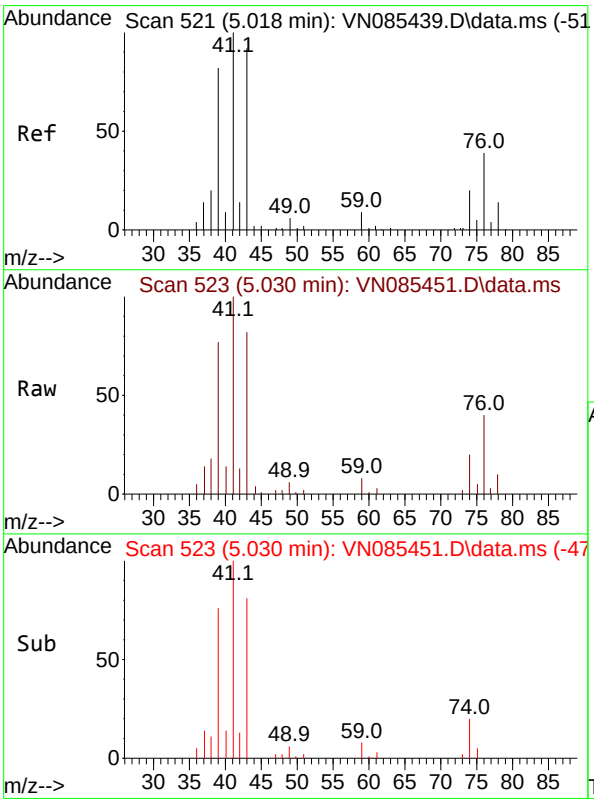
#13
Acrolein
Concen: 116.005 ug/l
RT: 4.171 min Scan# 3
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Tgt Ion: 56 Resp: 55291

Ion	Ratio	Lower	Upper
56	100		
55	71.3	56.3	84.5

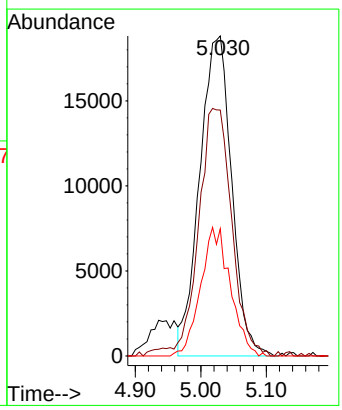


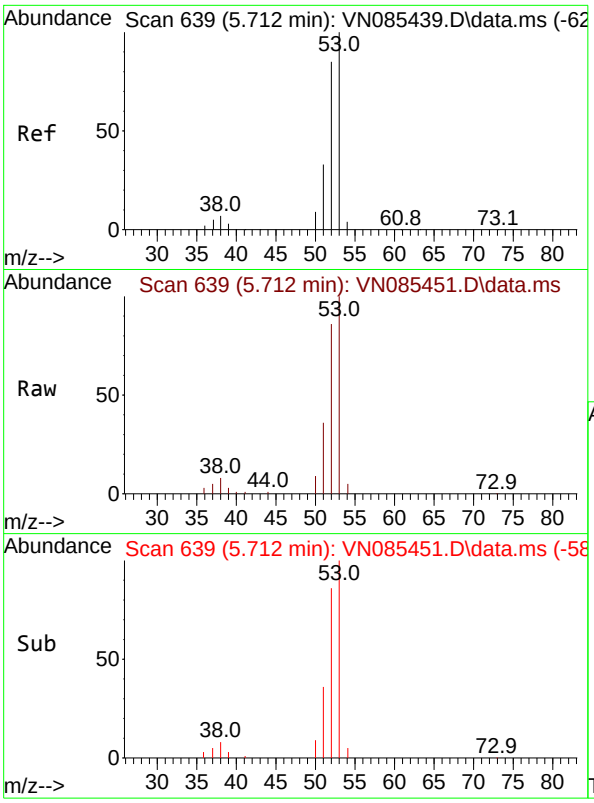


#14
Allyl chloride
Concen: 19.361 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.012 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 41 Resp: 63692

Ion	Ratio	Lower	Upper
41	100		
39	80.8	64.4	96.6
76	37.4	30.5	45.7



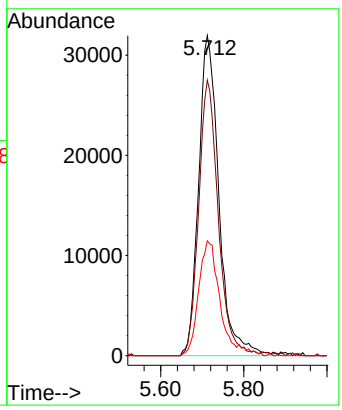


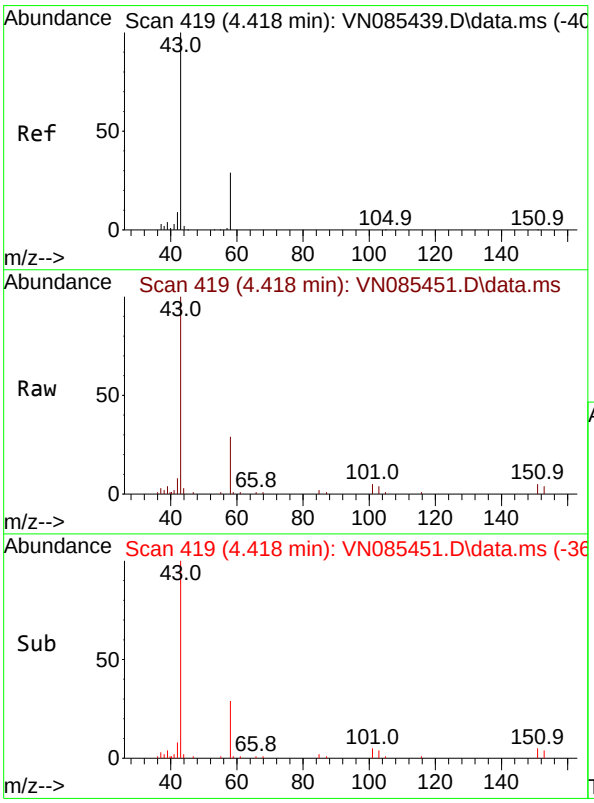
#15
Acrylonitrile
Concen: 97.766 ug/l
RT: 5.712 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Tgt Ion: 53 Resp: 108425

Ion	Ratio	Lower	Upper
53	100		
52	83.1	65.5	98.3
51	37.9	29.8	44.8

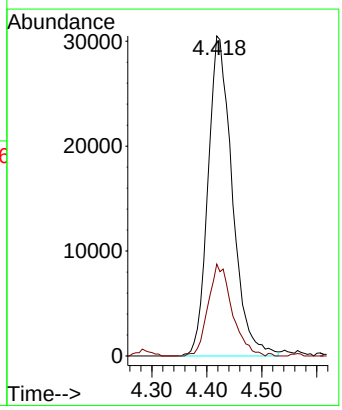


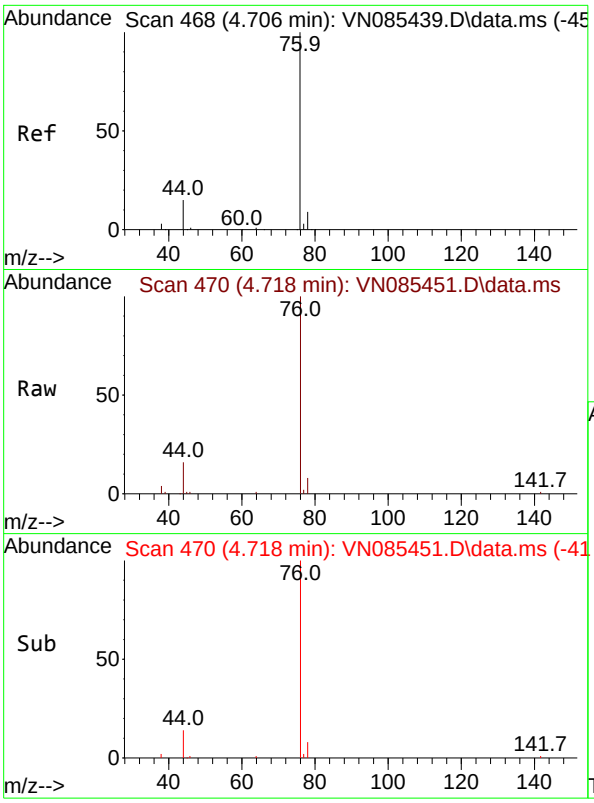


#16
Acetone
Concen: 94.887 ug/l
RT: 4.418 min Scan# 419
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 43 Resp: 93485

Ion	Ratio	Lower	Upper
43	100		
58	28.7	23.8	35.6



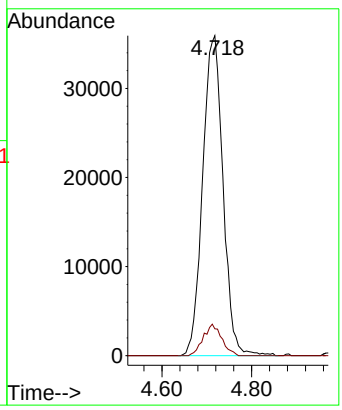


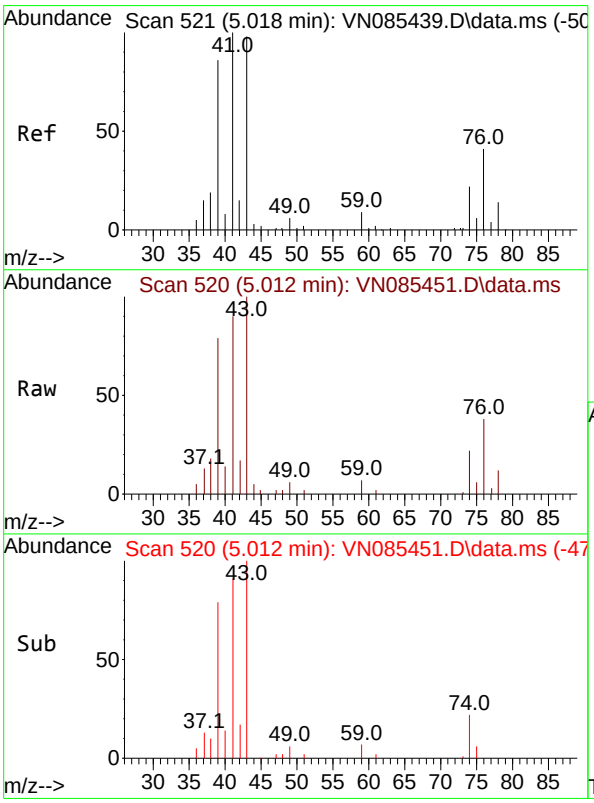
#17
Carbon Disulfide
Concen: 18.094 ug/l
RT: 4.718 min Scan# 4
Delta R.T. 0.012 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Tgt Ion: 76 Resp: 112944

Ion	Ratio	Lower	Upper
76	100		
78	8.4	6.9	10.3

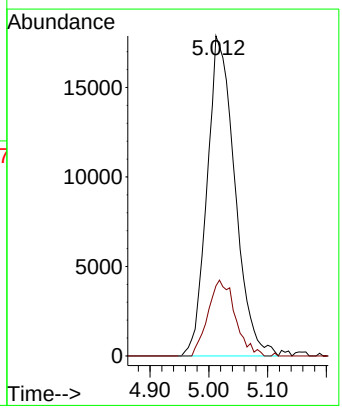


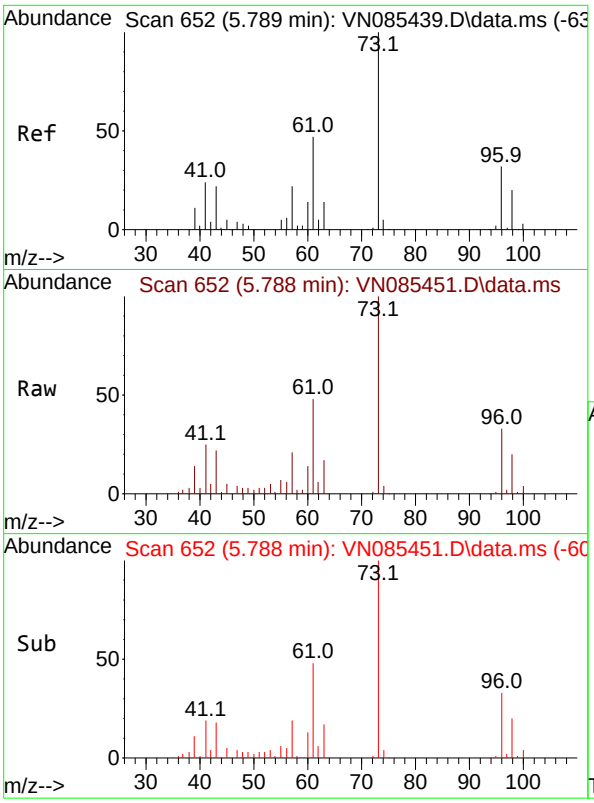


#18
Methyl Acetate
Concen: 19.589 ug/l
RT: 5.012 min Scan# 520
Delta R.T. -0.006 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 43 Resp: 58686

Ion	Ratio	Lower	Upper
43	100		
74	23.2	18.6	28.0



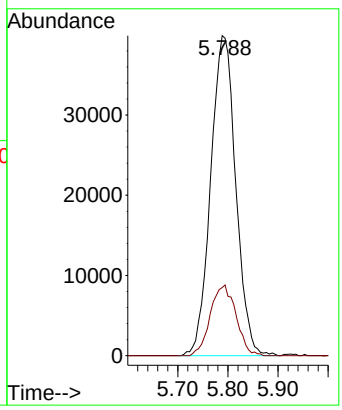


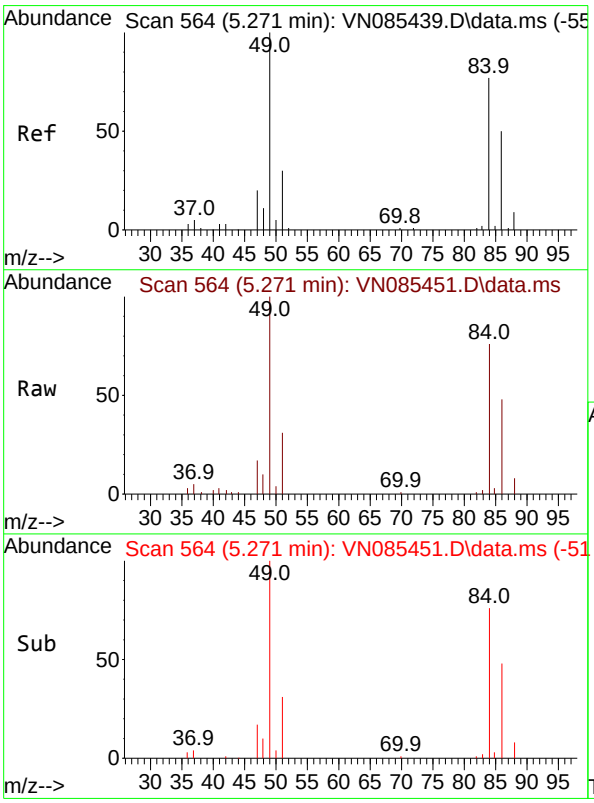
#19
Methyl tert-butyl Ether
Concen: 21.081 ug/l
RT: 5.788 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Tgt Ion: 73 Resp: 138775

Ion	Ratio	Lower	Upper
73	100		
57	21.3	17.8	26.8

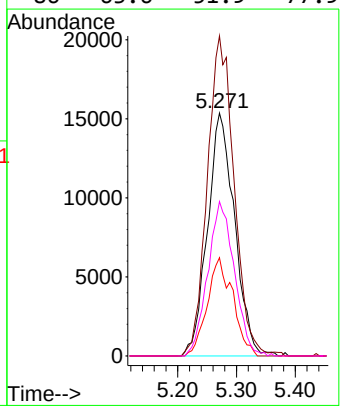


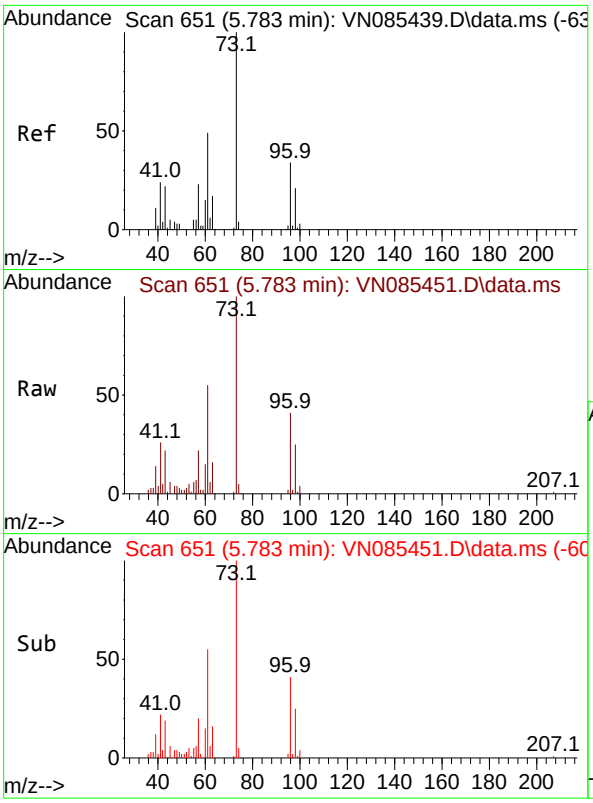


#20
Methylene Chloride
Concen: 20.114 ug/l
RT: 5.271 min Scan# 564
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 84 Resp: 49058

Ion	Ratio	Lower	Upper
84	100		
49	131.8	104.1	156.1
51	40.5	31.0	46.4
86	63.6	51.9	77.9



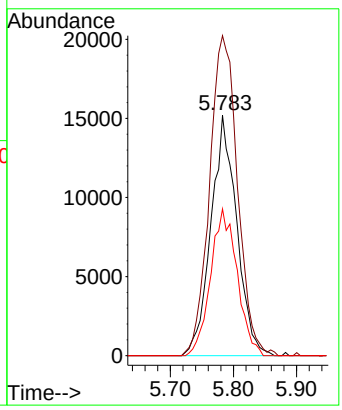


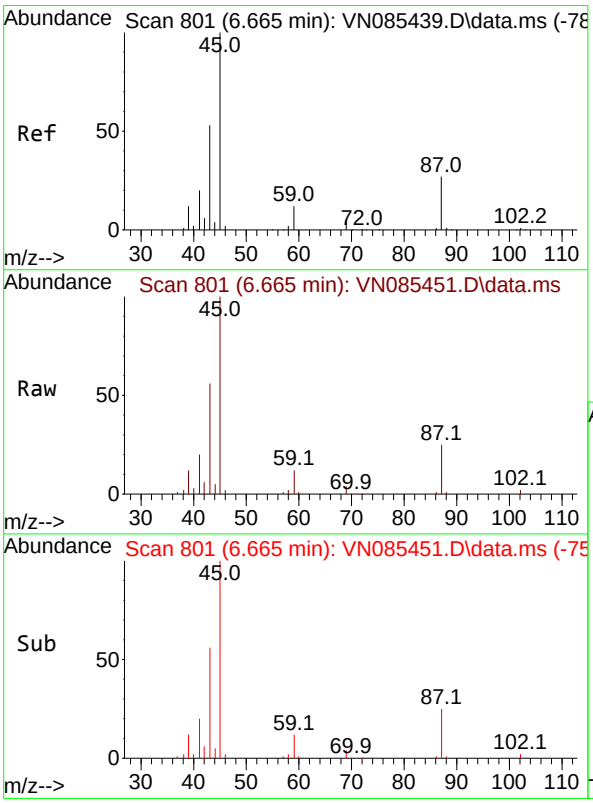
#21
trans-1,2-Dichloroethene
Concen: 19.880 ug/l
RT: 5.783 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Tgt Ion: 96 Resp: 43073

Ion	Ratio	Lower	Upper
96	100		
61	133.1	115.7	173.5
98	61.0	49.8	74.8

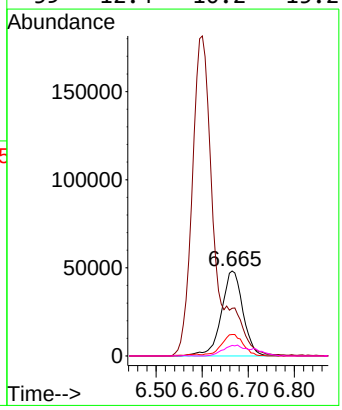


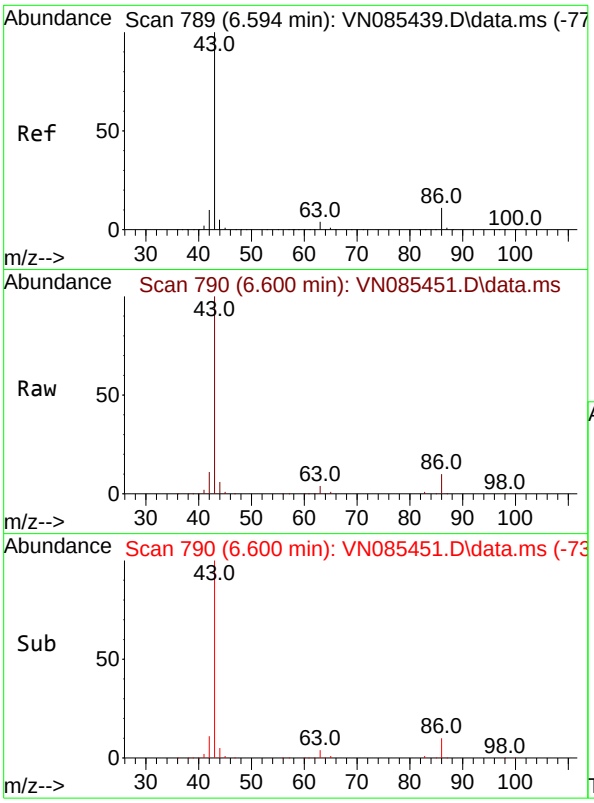


#22
Diisopropyl ether
Concen: 21.410 ug/l
RT: 6.665 min Scan# 801
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 45 Resp: 156331

Ion	Ratio	Lower	Upper
45	100		
43	54.3	45.0	67.6
87	25.3	21.8	32.8
59	12.4	10.2	15.2



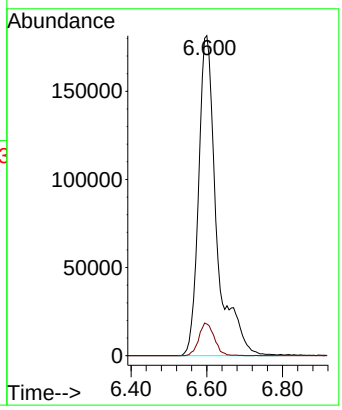


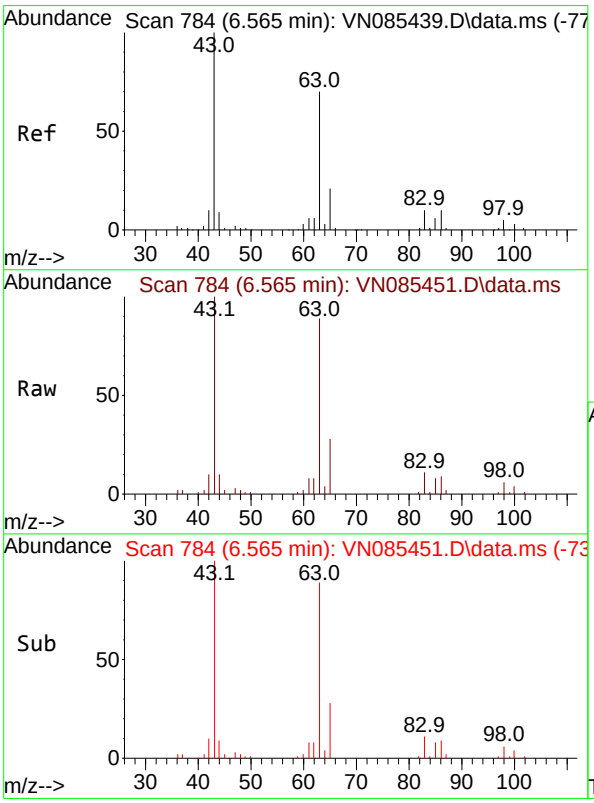
#23
Vinyl Acetate
Concen: 118.221 ug/l
RT: 6.600 min Scan# 7
Delta R.T. 0.006 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Tgt Ion: 43 Resp: 604101

Ion	Ratio	Lower	Upper
43	100		
86	9.9	8.4	12.6

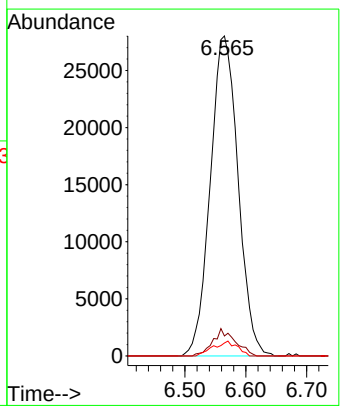


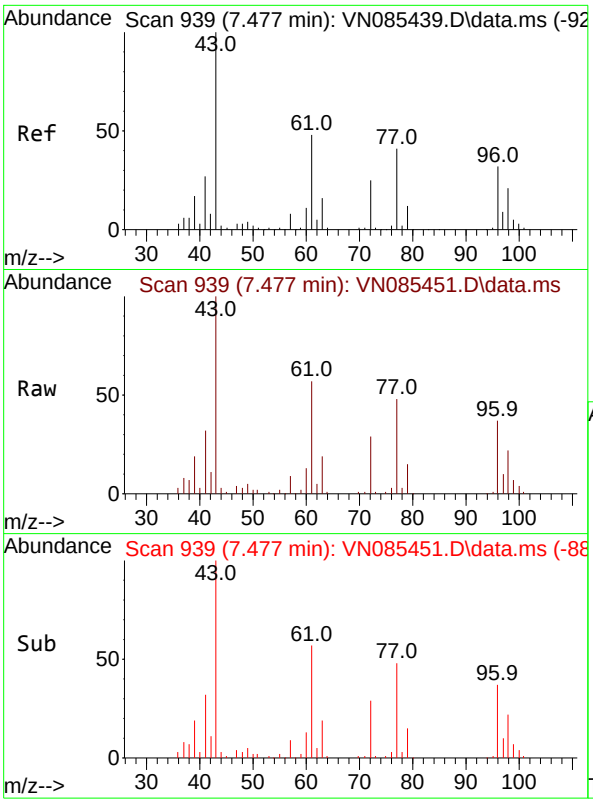


#24
1,1-Dichloroethane
Concen: 19.952 ug/l
RT: 6.565 min Scan# 784
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 63 Resp: 88831

Ion	Ratio	Lower	Upper
63	100		
98	6.3	3.3	9.8
100	4.1	2.0	6.0



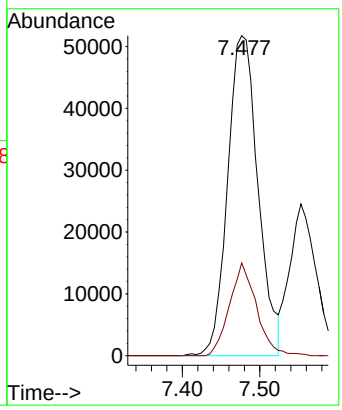


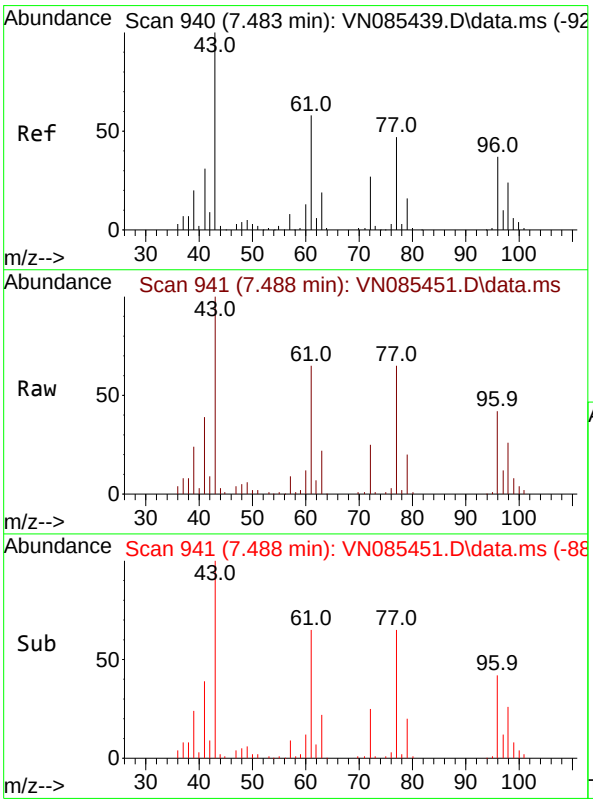
#25
2-Butanone
Concen: 97.595 ug/l
RT: 7.477 min Scan# 9
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Tgt Ion: 43 Resp: 141498

Ion	Ratio	Lower	Upper
43	100		
72	29.0	20.2	30.4

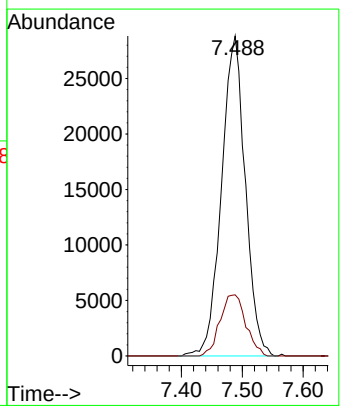


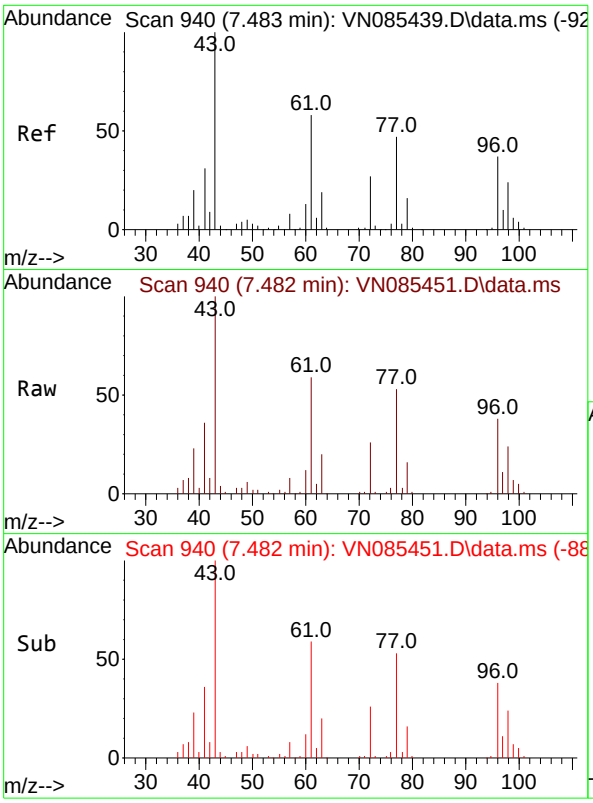


#26
2,2-Dichloropropane
Concen: 21.728 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 77 Resp: 78212

Ion	Ratio	Lower	Upper
77	100		
97	20.7	10.7	32.1



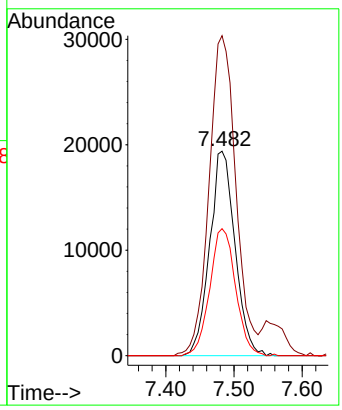


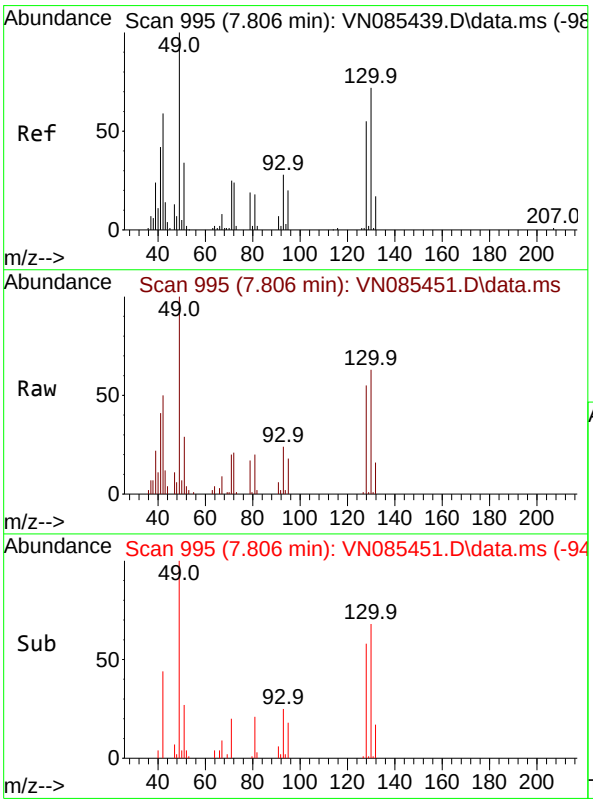
#27
cis-1,2-Dichloroethene
Concen: 19.672 ug/l
RT: 7.482 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Tgt Ion: 96 Resp: 50200

Ion	Ratio	Lower	Upper
96	100		
61	165.3	0.0	311.8
98	63.3	0.0	126.0

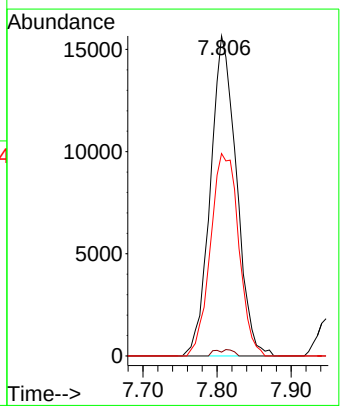


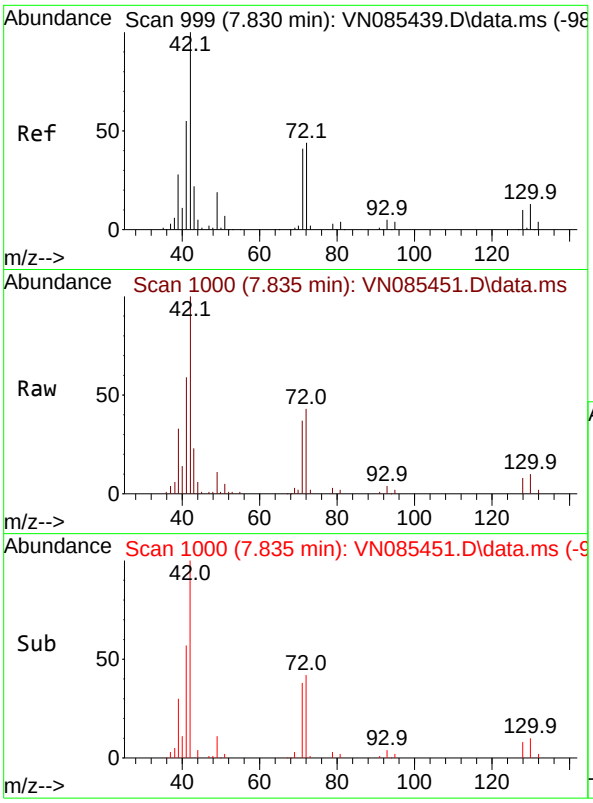


#28
Bromochloromethane
Concen: 18.460 ug/l
RT: 7.806 min Scan# 995
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 49 Resp: 38238

Ion	Ratio	Lower	Upper
49	100		
129	0.7	0.0	4.4
130	68.4	55.0	82.4



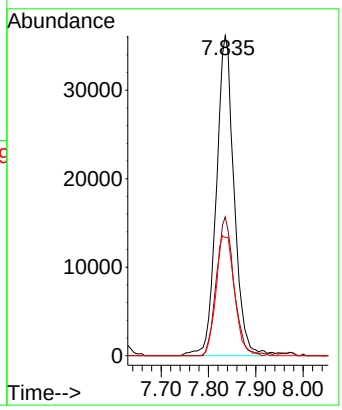


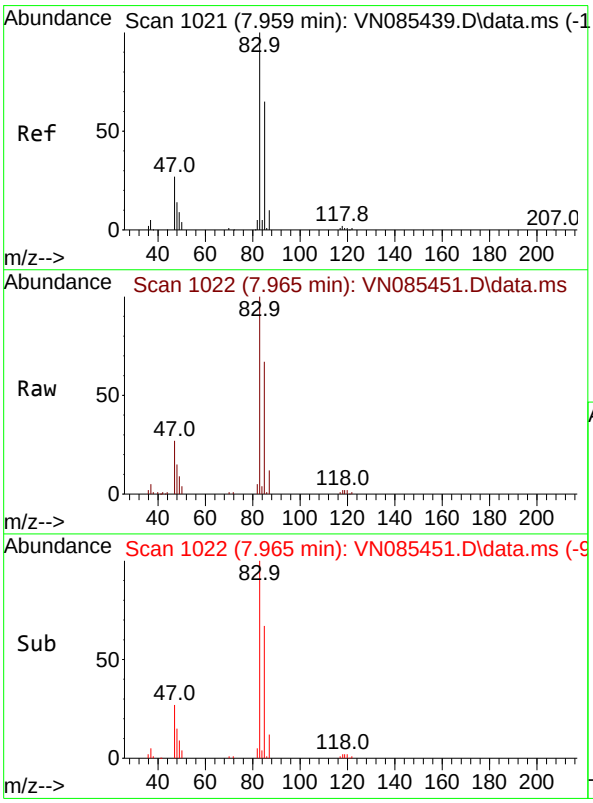
#29
Tetrahydrofuran
Concen: 102.217 ug/l
RT: 7.835 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Tgt Ion: 42 Resp: 93959

Ion	Ratio	Lower	Upper
42	100		
72	42.2	34.2	51.2
71	39.3	32.5	48.7

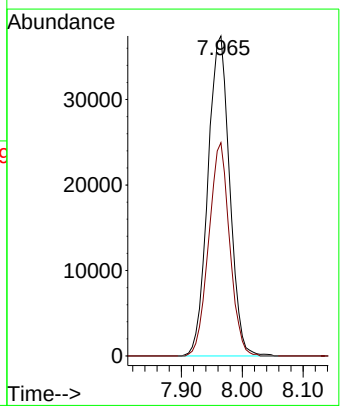


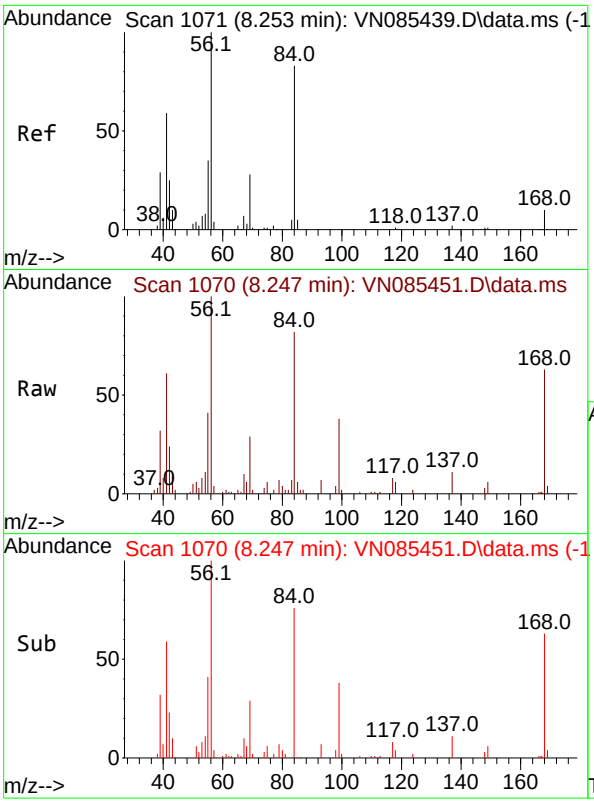


#30
Chloroform
Concen: 20.149 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. 0.006 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 83 Resp: 92715

Ion	Ratio	Lower	Upper
83	100		
85	66.6	51.8	77.6



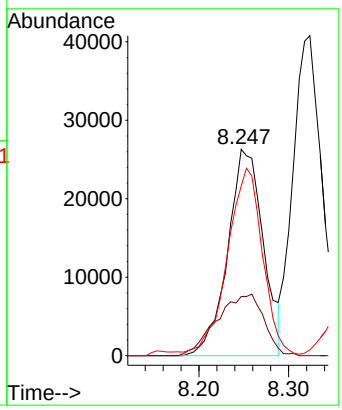


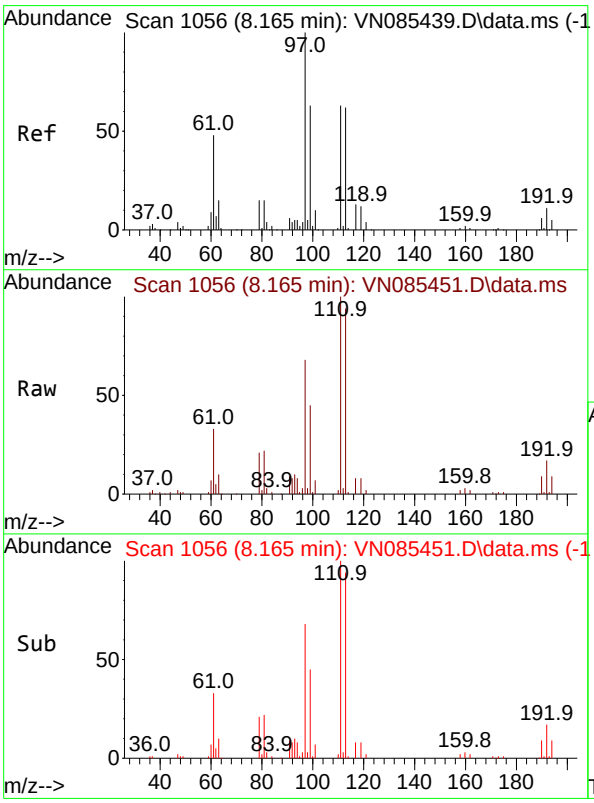
#31
Cyclohexane
Concen: 18.672 ug/l
RT: 8.247 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Tgt Ion: 56 Resp: 72255

Ion	Ratio	Lower	Upper
56	100		
69	28.7	22.2	33.4
84	80.4	66.4	99.6

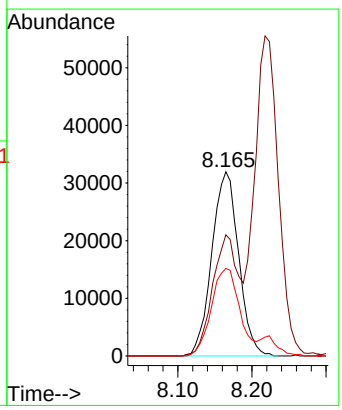


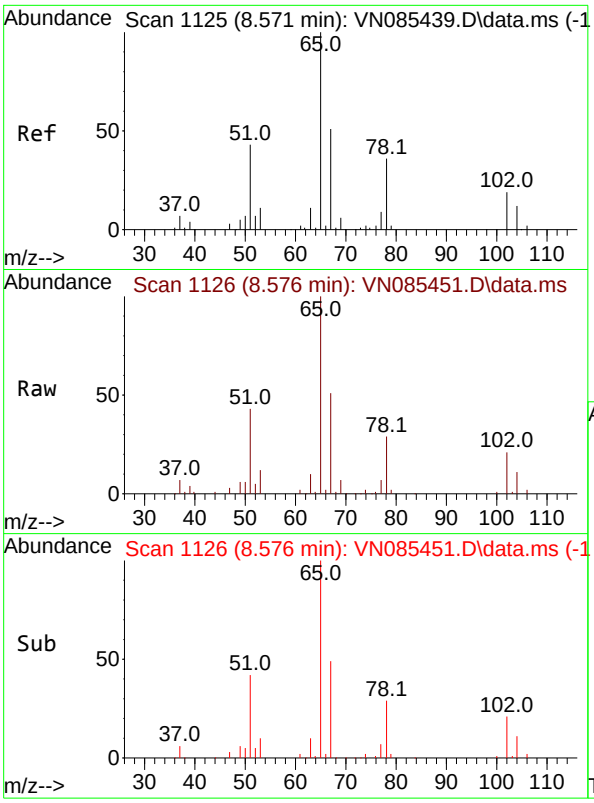


#32
1,1,1-Trichloroethane
Concen: 19.867 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 97 Resp: 80190

Ion	Ratio	Lower	Upper
97	100		
99	64.5	49.8	74.6
61	50.6	41.4	62.2



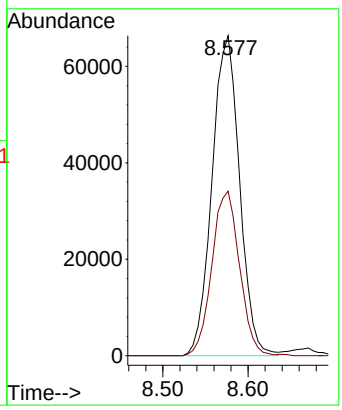


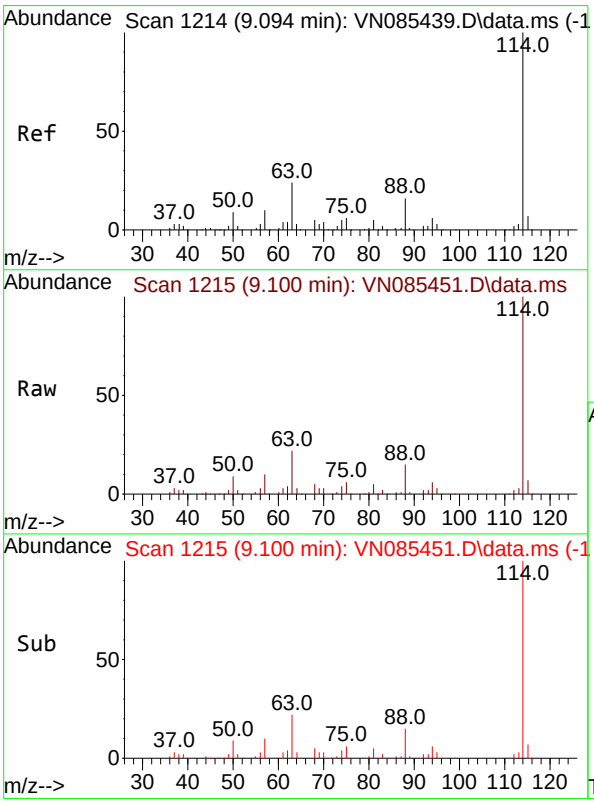
#33
1,2-Dichloroethane-d4
Concen: 48.941 ug/l
RT: 8.576 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Tgt Ion: 65 Resp: 149231

Ion	Ratio	Lower	Upper
65	100		
67	51.7	0.0	101.6

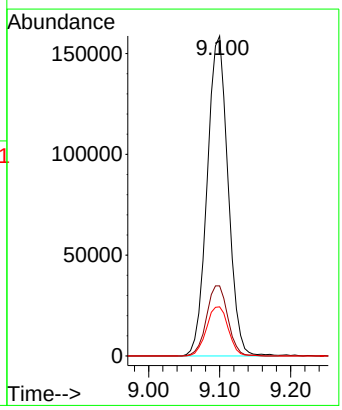


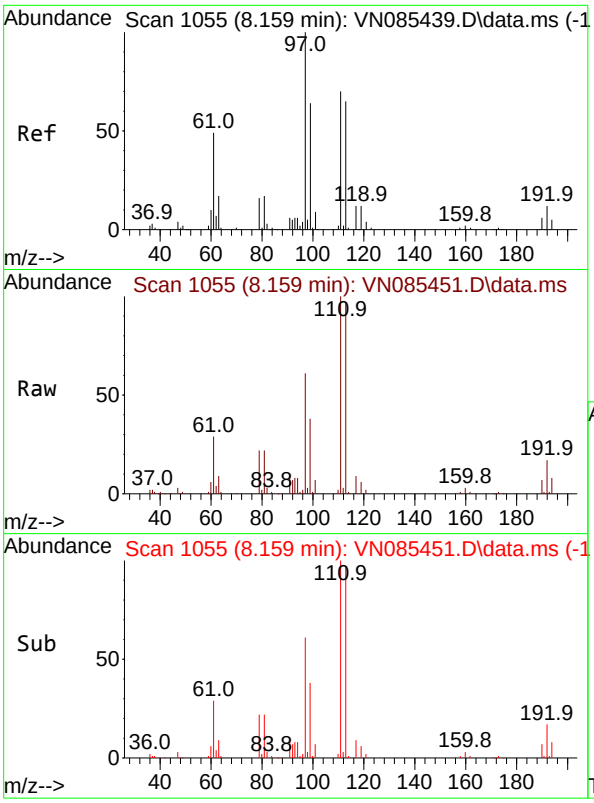


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.006 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion:114 Resp: 323122

Ion	Ratio	Lower	Upper
114	100		
63	21.9	0.0	47.6
88	15.3	0.0	32.6



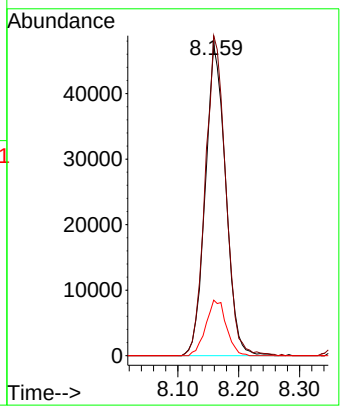


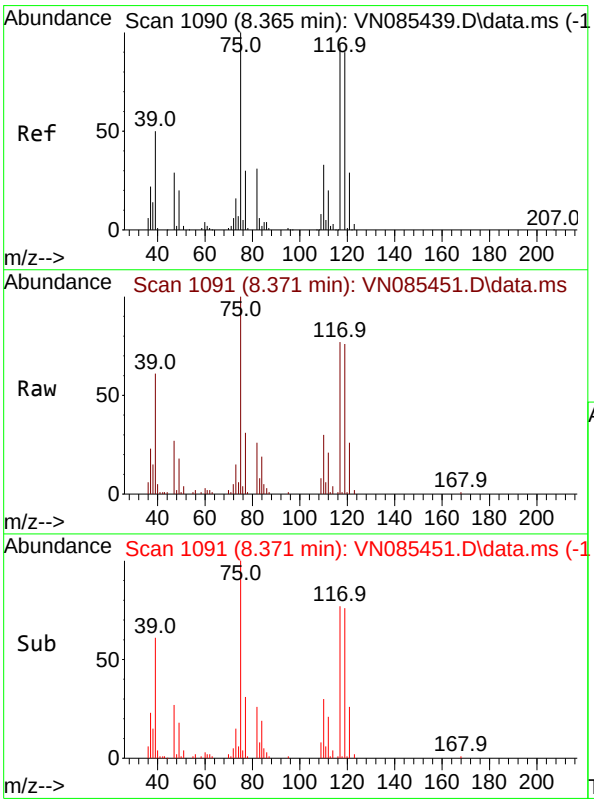
#35
Dibromofluoromethane
Concen: 49.259 ug/l
RT: 8.159 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Tgt Ion:113 Resp: 110423

Ion	Ratio	Lower	Upper
113	100		
111	103.1	82.7	124.1
192	17.9	14.3	21.5

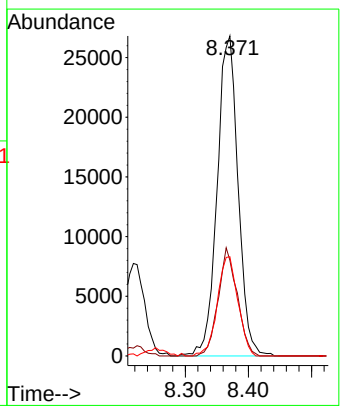


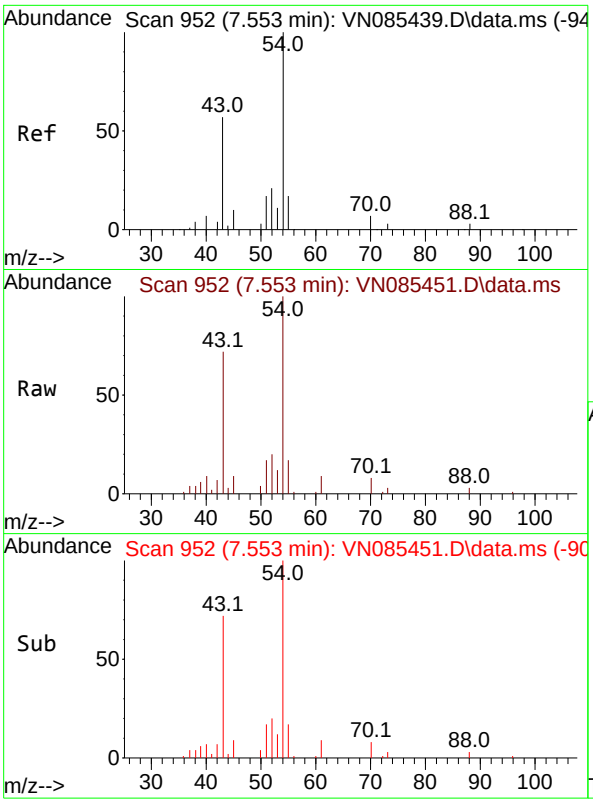


#36
1,1-Dichloropropene
Concen: 19.650 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. 0.006 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 75 Resp: 61822

Ion	Ratio	Lower	Upper
75	100		
110	30.8	16.5	49.5
77	30.6	24.4	36.6



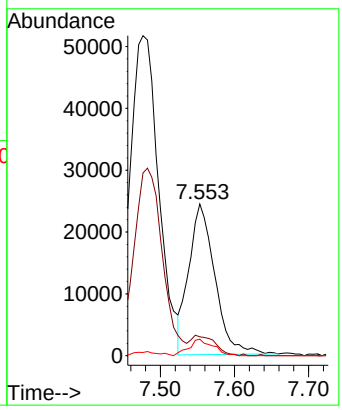


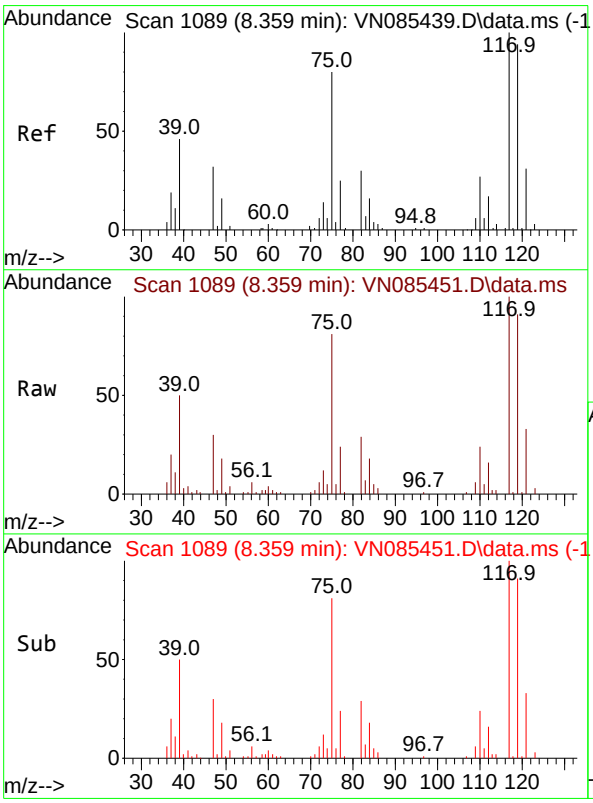
#37
Ethyl Acetate
Concen: 18.795 ug/l
RT: 7.553 min Scan# 9
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Tgt Ion: 43 Resp: 59684

Ion	Ratio	Lower	Upper
43	100		
61	12.3	10.9	16.3
70	10.1	7.5	11.3

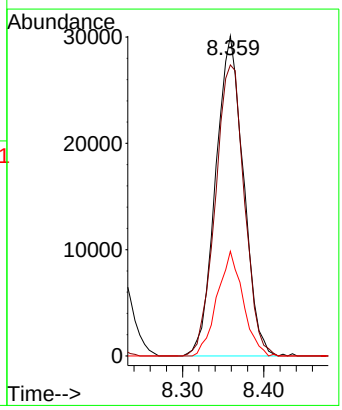


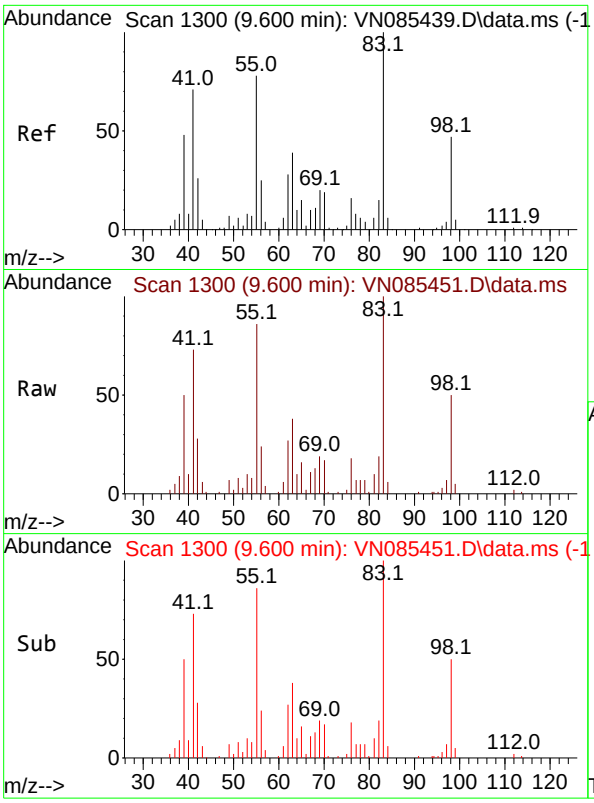


#38
Carbon Tetrachloride
Concen: 19.911 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion:117 Resp: 71714

Ion	Ratio	Lower	Upper
117	100		
119	91.0	75.4	113.2
121	32.7	24.6	37.0



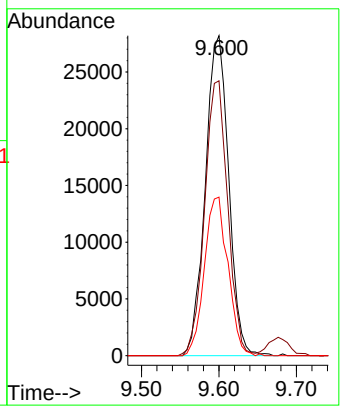


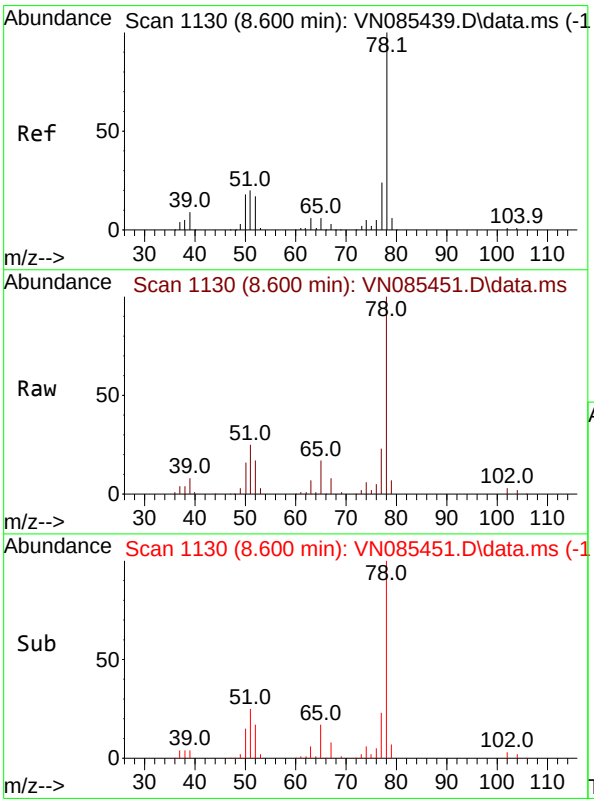
#39
Methylcyclohexane
Concen: 20.011 ug/l
RT: 9.600 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Tgt Ion: 83 Resp: 59161

Ion	Ratio	Lower	Upper
83	100		
55	85.9	62.6	94.0
98	49.6	37.7	56.5

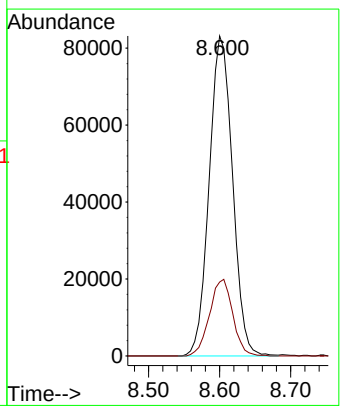


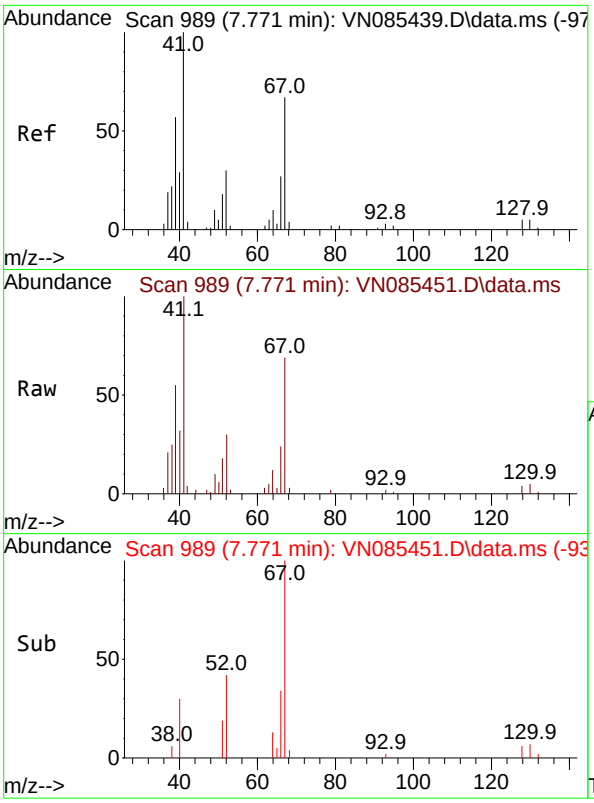


#40
Benzene
Concen: 20.061 ug/l
RT: 8.600 min Scan# 1130
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 78 Resp: 189640

Ion	Ratio	Lower	Upper
78	100		
77	23.1	19.0	28.6



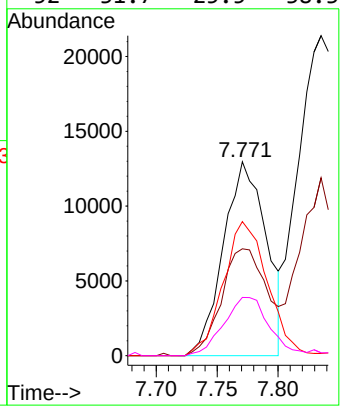


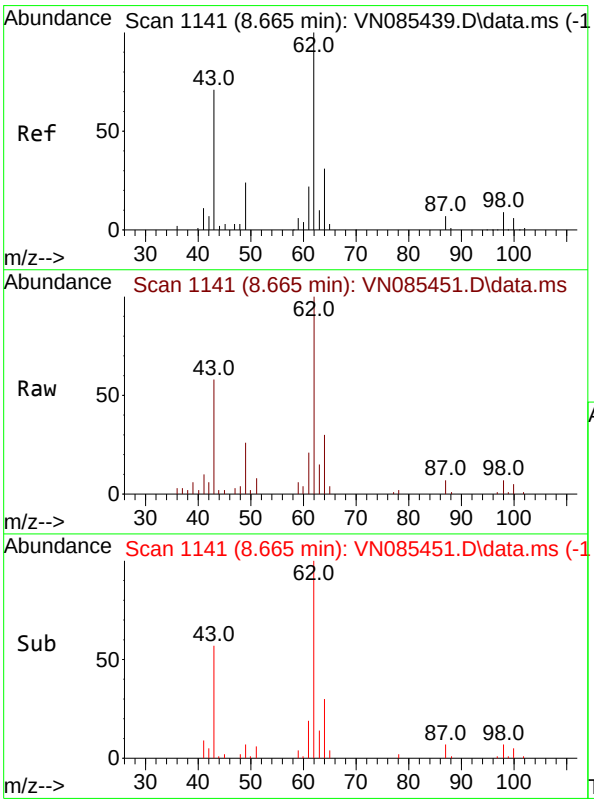
#41
Methacrylonitrile
Concen: 19.288 ug/l
RT: 7.771 min Scan# 9
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Tgt Ion: 41 Resp: 31866

Ion	Ratio	Lower	Upper
41	100		
39	58.3	46.0	69.0
67	71.3	57.4	86.2
52	31.7	25.5	38.3

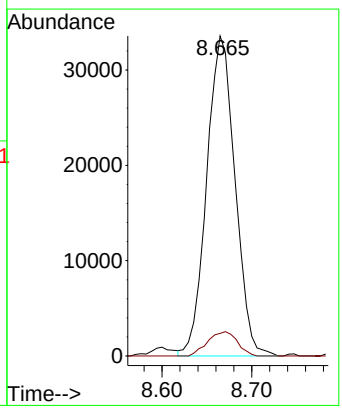


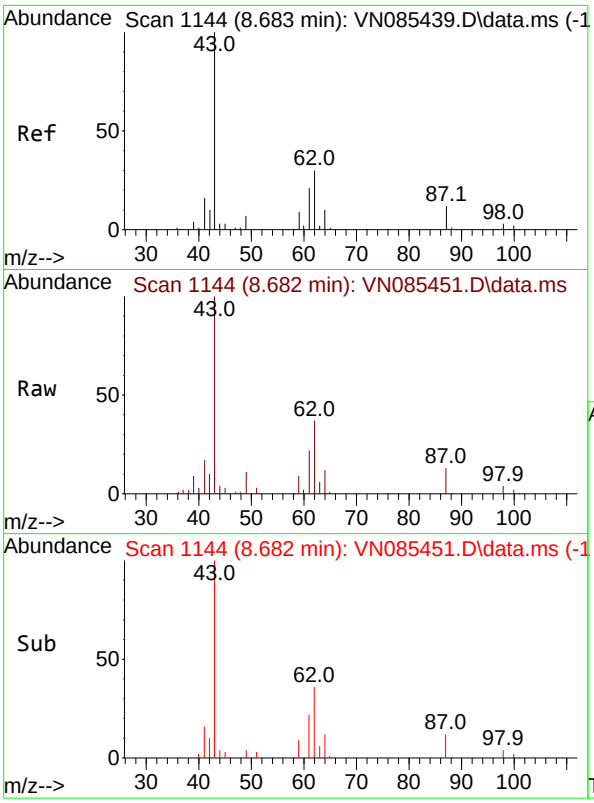


#42
1,2-Dichloroethane
Concen: 20.692 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 62 Resp: 73669

Ion	Ratio	Lower	Upper
62	100		
98	7.9	0.0	17.0



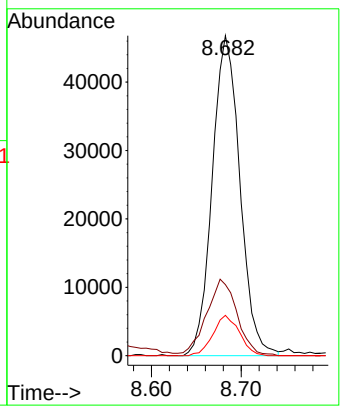


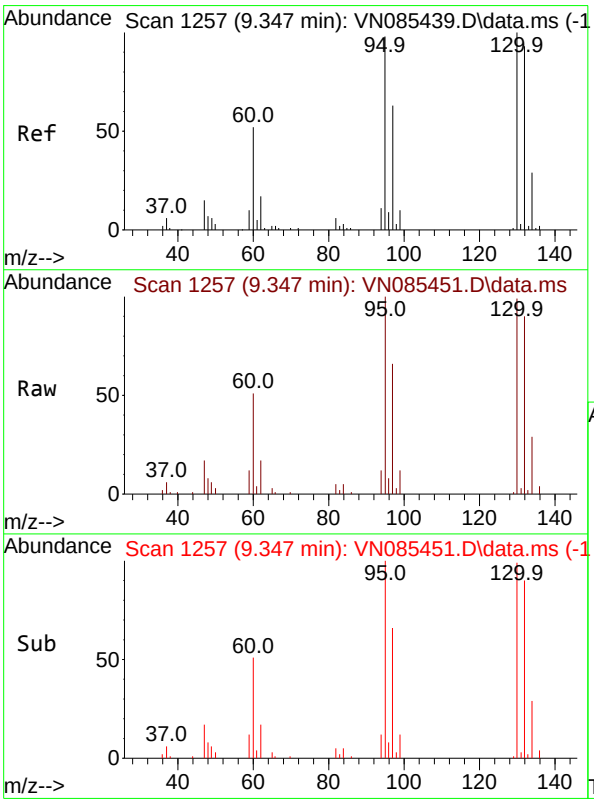
#43
Isopropyl Acetate
Concen: 19.708 ug/l
RT: 8.682 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Tgt Ion: 43 Resp: 100283

Ion	Ratio	Lower	Upper
43	100		
61	26.5	20.7	31.1
87	12.0	9.8	14.8

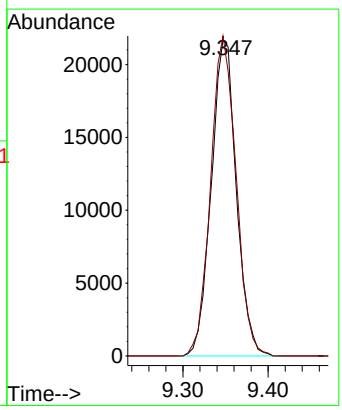


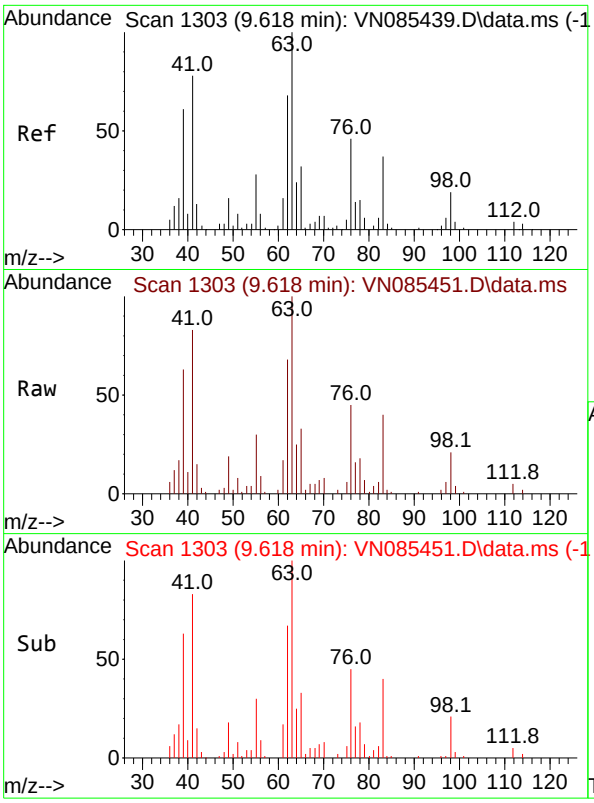


#44
Trichloroethene
Concen: 20.145 ug/l
RT: 9.347 min Scan# 1257
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion:130 Resp: 44329

Ion	Ratio	Lower	Upper
130	100		
95	101.2	0.0	195.8



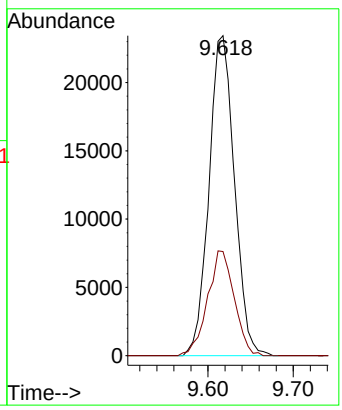


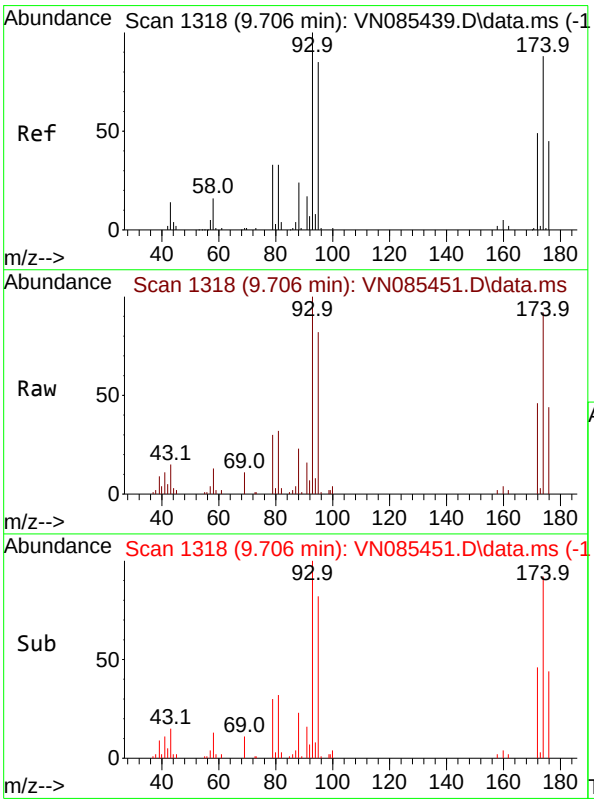
#45
1,2-Dichloropropane
Concen: 20.167 ug/l
RT: 9.618 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Tgt Ion: 63 Resp: 48696

Ion	Ratio	Lower	Upper
63	100		
65	32.5	25.6	38.4

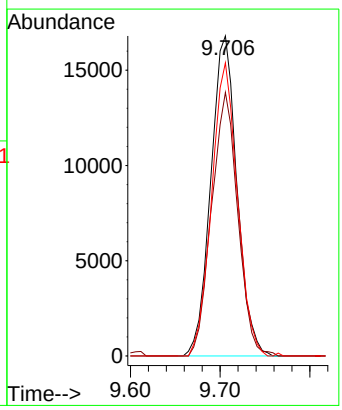


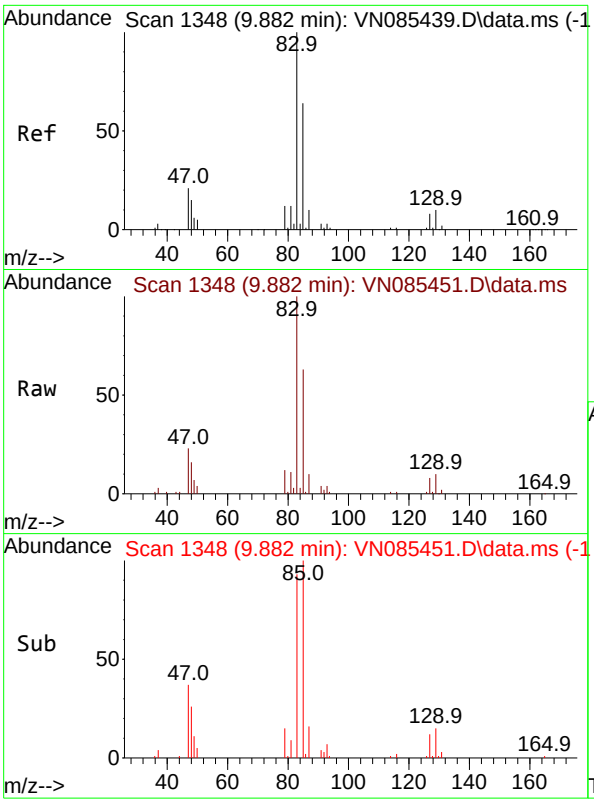


#46
Dibromomethane
Concen: 19.561 ug/l
RT: 9.706 min Scan# 1318
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 93 Resp: 34080

Ion	Ratio	Lower	Upper
93	100		
95	82.2	64.7	97.1
174	90.2	69.0	103.4



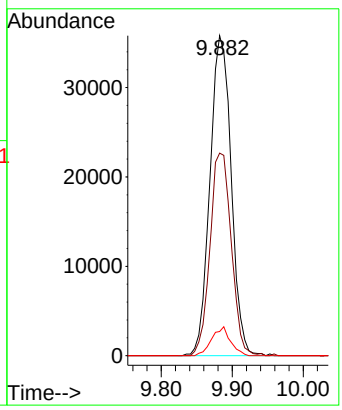


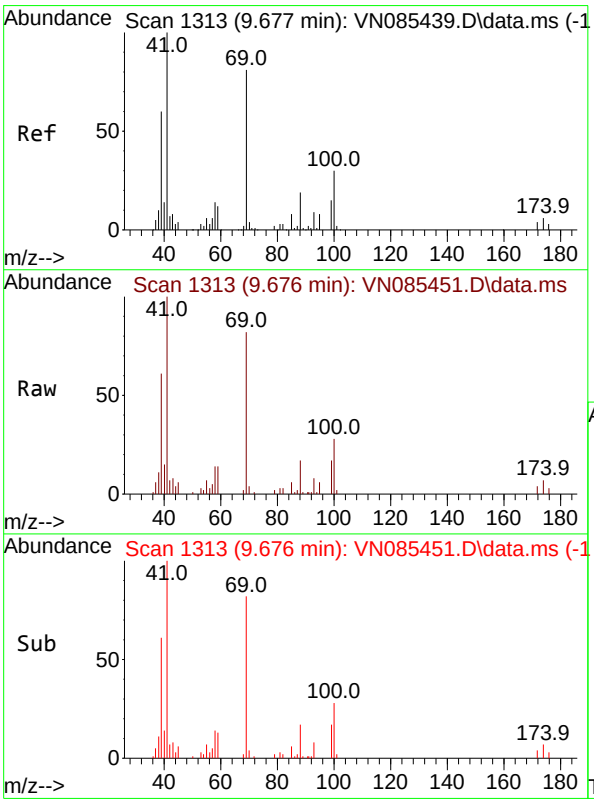
#47
Bromodichloromethane
Concen: 20.909 ug/l
RT: 9.882 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Tgt Ion: 83 Resp: 74218

Ion	Ratio	Lower	Upper
83	100		
85	63.3	51.2	76.8
127	7.5	6.5	9.7

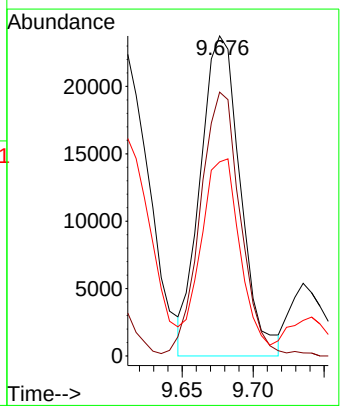


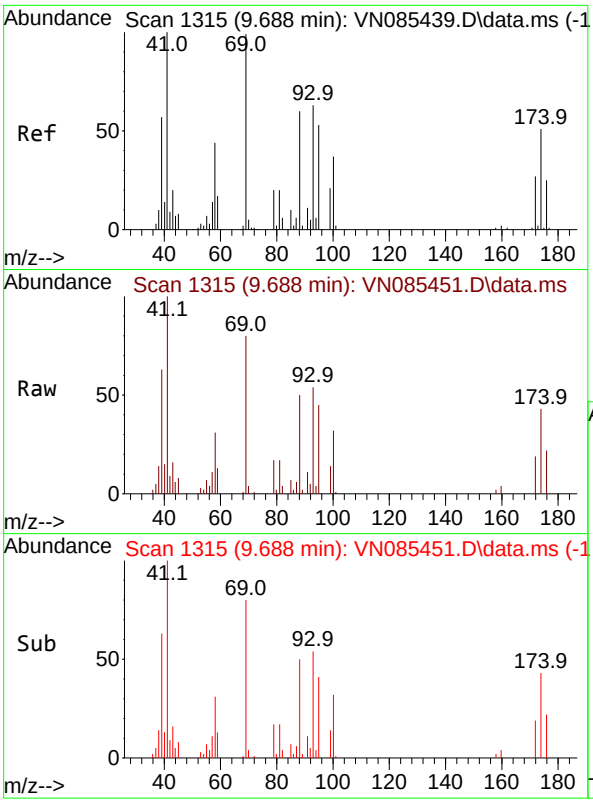


#48
Methyl methacrylate
Concen: 20.374 ug/l
RT: 9.676 min Scan# 1313
Delta R.T. -0.001 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 41 Resp: 46655

Ion	Ratio	Lower	Upper
41	100		
69	82.9	64.7	97.1
39	61.1	49.0	73.6



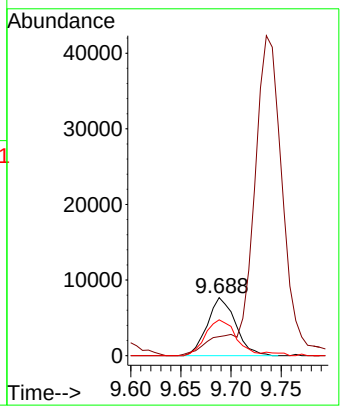


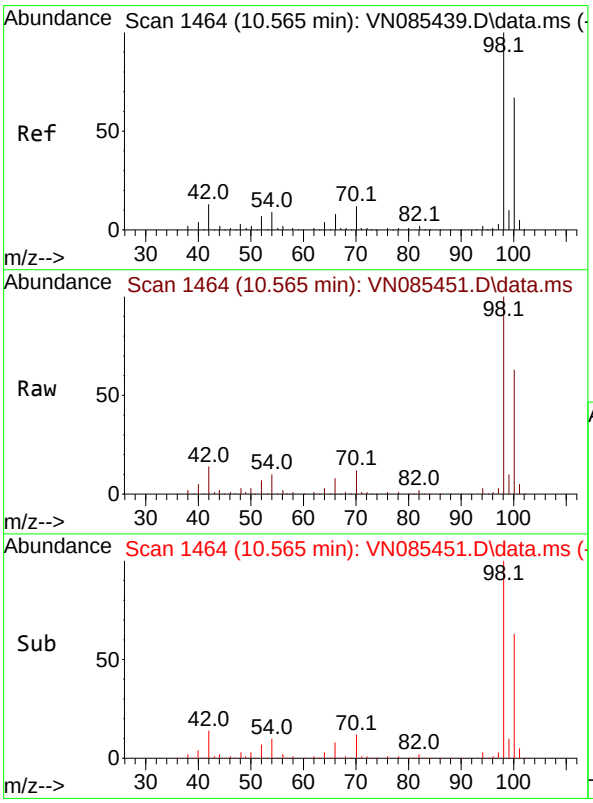
#49
1,4-Dioxane
Concen: 388.550 ug/l
RT: 9.688 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Tgt Ion: 88 Resp: 14983

Ion	Ratio	Lower	Upper
88	100		
43	0.0	26.6	39.8#
58	66.8	59.5	89.3

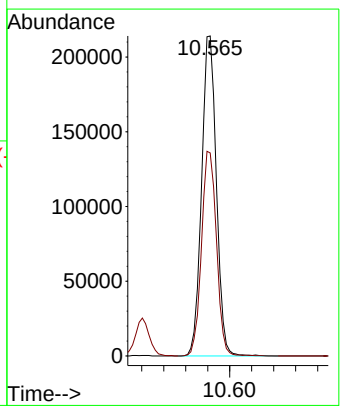


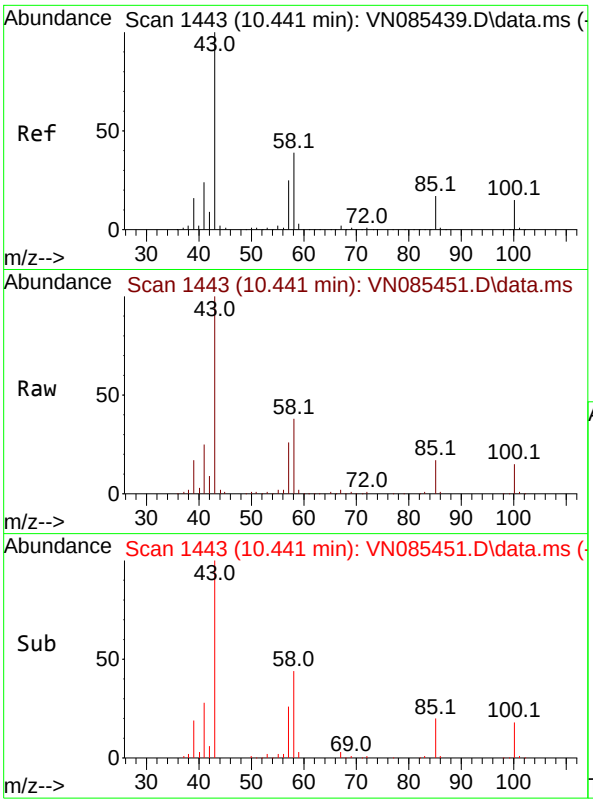


#50
Toluene-d8
Concen: 50.102 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 98 Resp: 399040

Ion	Ratio	Lower	Upper
98	100		
100	64.8	52.2	78.4



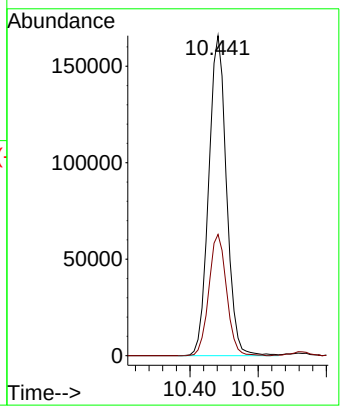


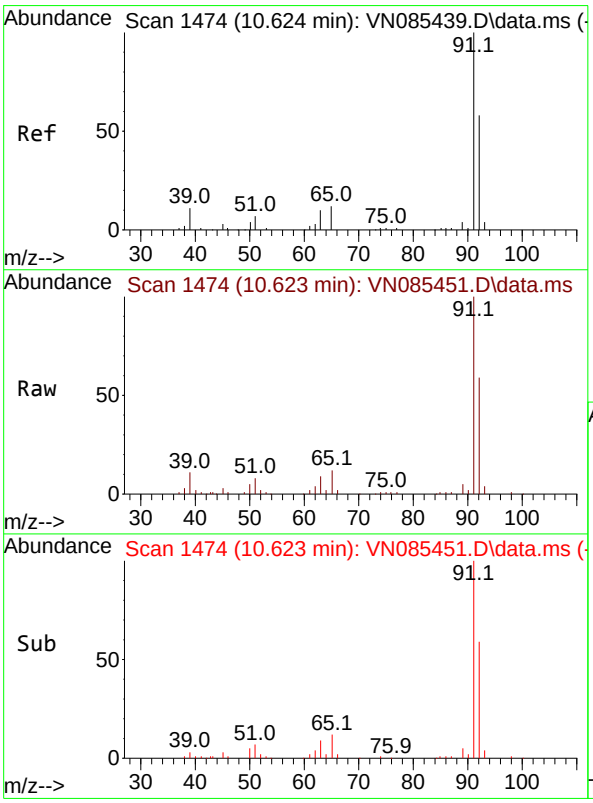
#51
4-Methyl-2-Pentanone
Concen: 101.808 ug/l
RT: 10.441 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Tgt Ion: 43 Resp: 300611

Ion	Ratio	Lower	Upper
43	100		
58	37.8	30.5	45.7

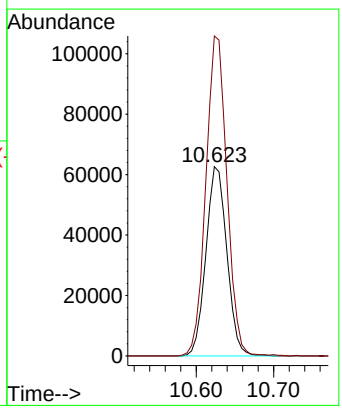


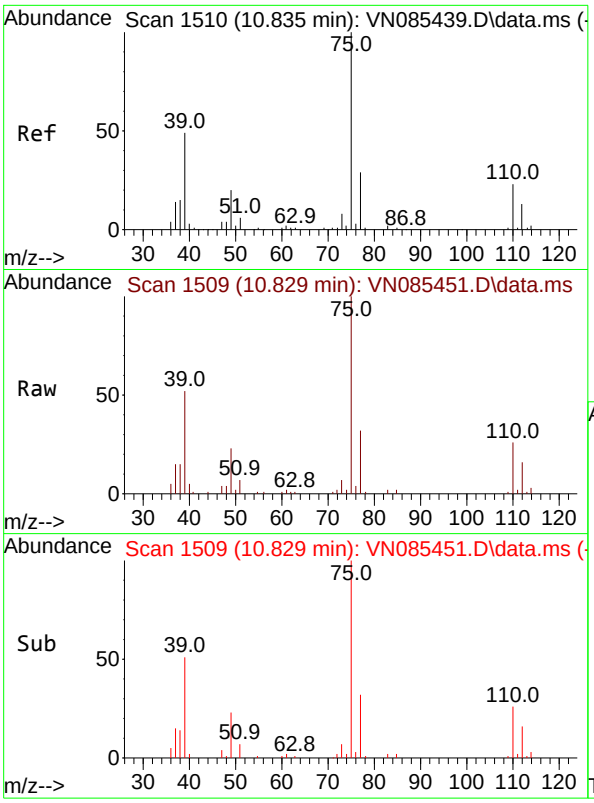


#52
Toluene
Concen: 21.476 ug/l
RT: 10.623 min Scan# 1474
Delta R.T. -0.001 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 92 Resp: 117631

Ion	Ratio	Lower	Upper
92	100		
91	169.9	139.2	208.8



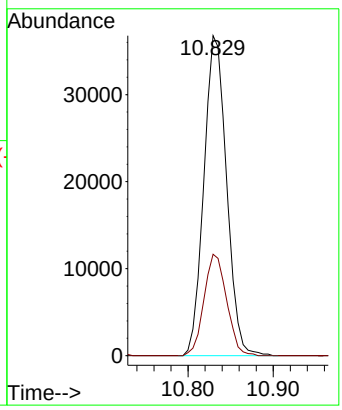


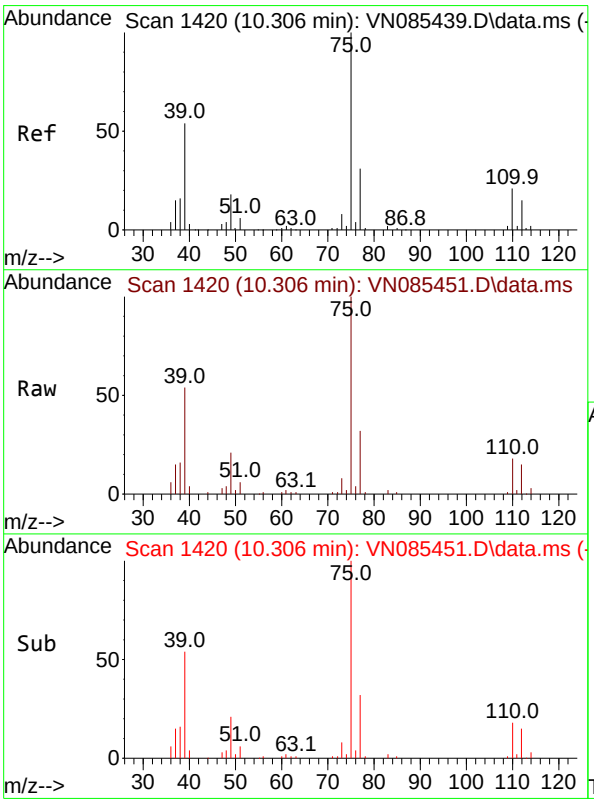
#53
t-1,3-Dichloropropene
Concen: 20.276 ug/l
RT: 10.829 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Tgt Ion: 75 Resp: 68014

Ion	Ratio	Lower	Upper
75	100		
77	31.7	23.5	35.3

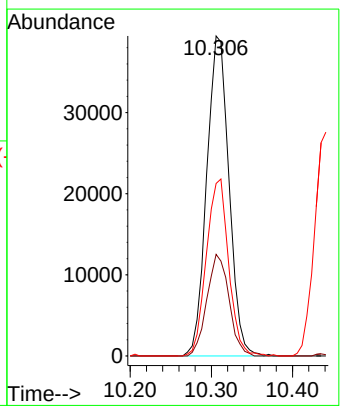


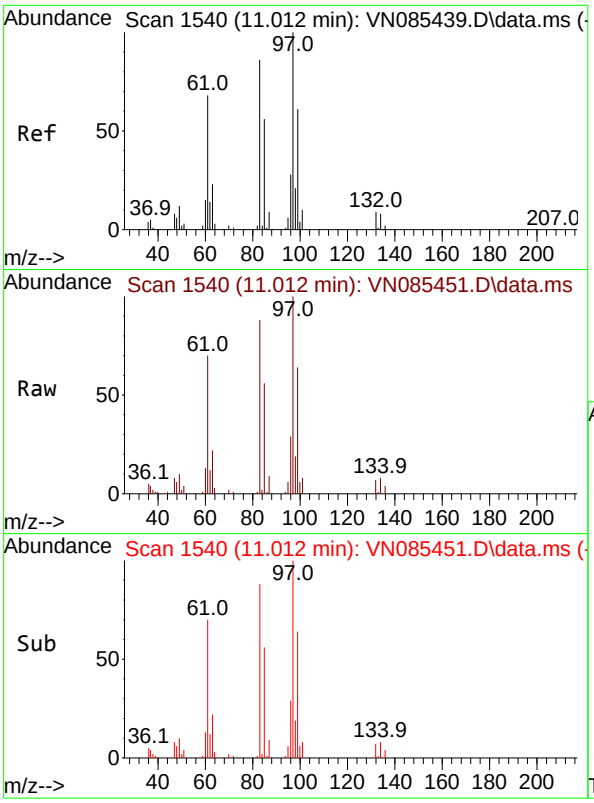


#54
cis-1,3-Dichloropropene
Concen: 20.973 ug/l
RT: 10.306 min Scan# 1420
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 75 Resp: 75146

Ion	Ratio	Lower	Upper
75	100		
77	31.7	25.0	37.4
39	53.9	43.1	64.7



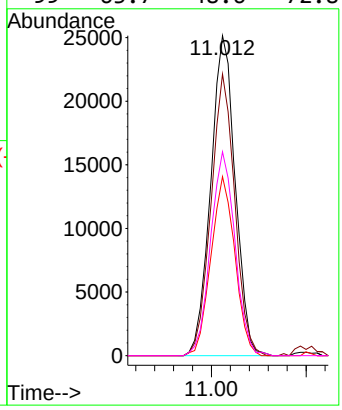


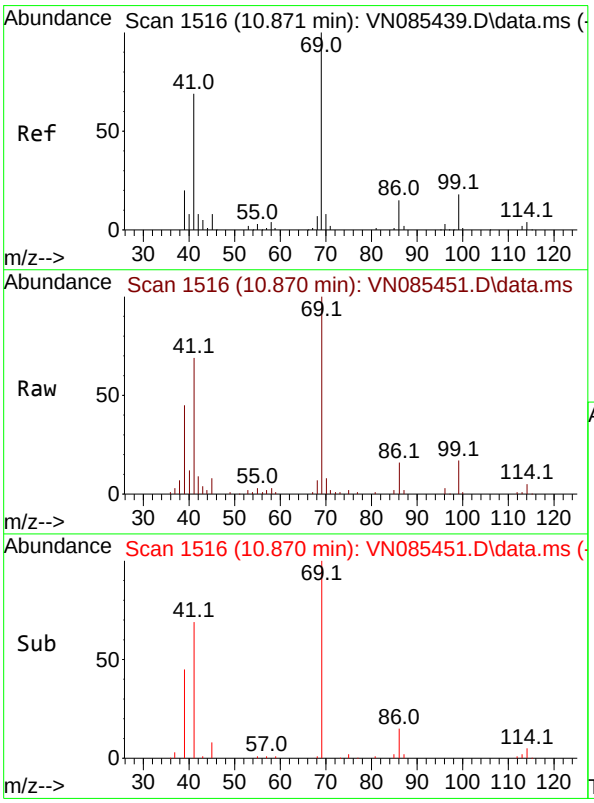
#55
1,1,2-Trichloroethane
Concen: 20.861 ug/l
RT: 11.012 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Tgt Ion: 97 Resp: 45220

Ion	Ratio	Lower	Upper
97	100		
83	88.0	69.0	103.6
85	55.9	44.6	66.8
99	63.7	48.6	72.8

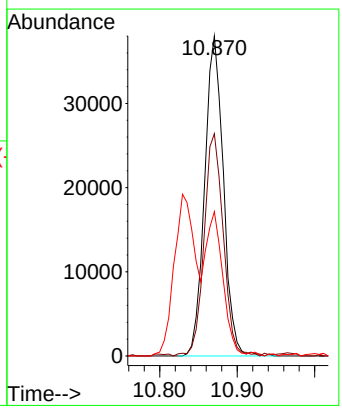


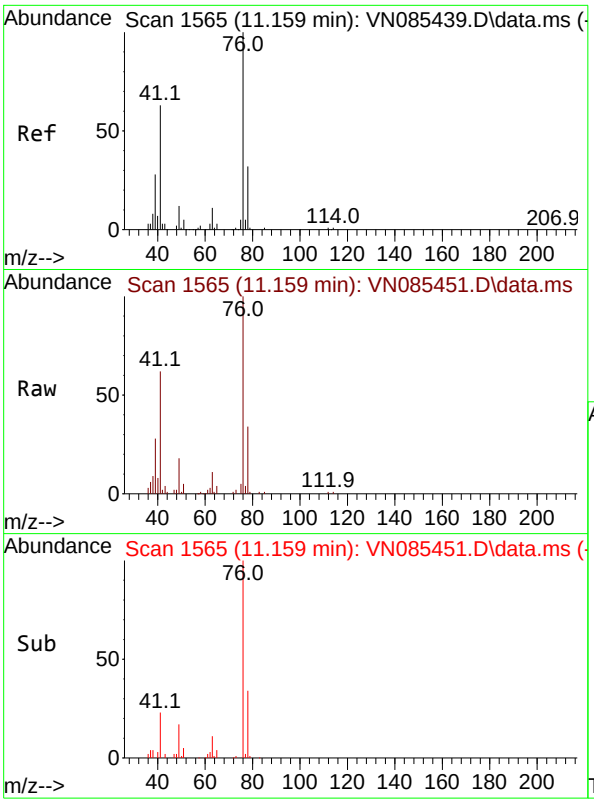


#56
Ethyl methacrylate
Concen: 18.769 ug/l
RT: 10.870 min Scan# 1516
Delta R.T. -0.001 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 69 Resp: 63954

Ion	Ratio	Lower	Upper
69	100		
41	71.0	54.6	82.0
39	40.3	32.4	48.6



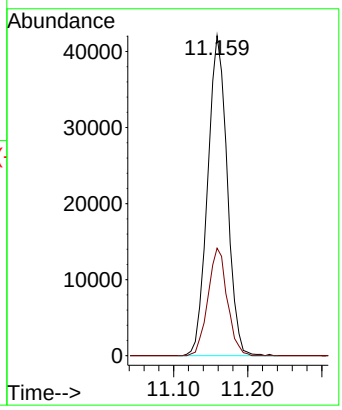


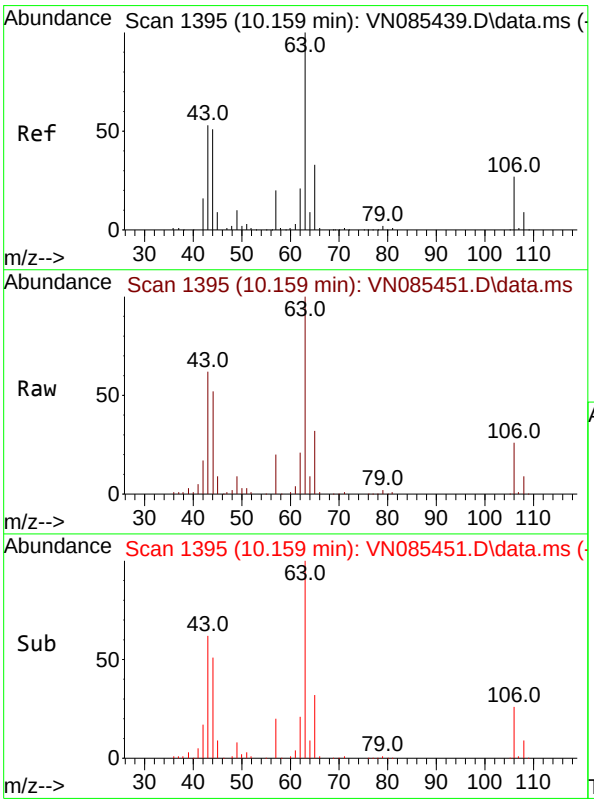
#57
1,3-Dichloropropane
Concen: 20.424 ug/l
RT: 11.159 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Tgt Ion: 76 Resp: 76979

Ion	Ratio	Lower	Upper
76	100		
78	33.2	25.6	38.4

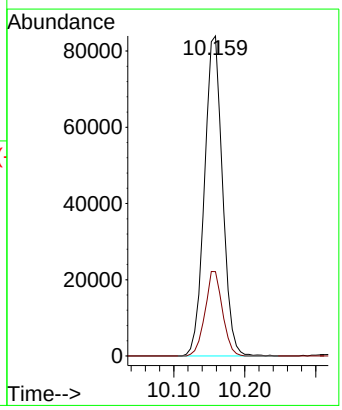


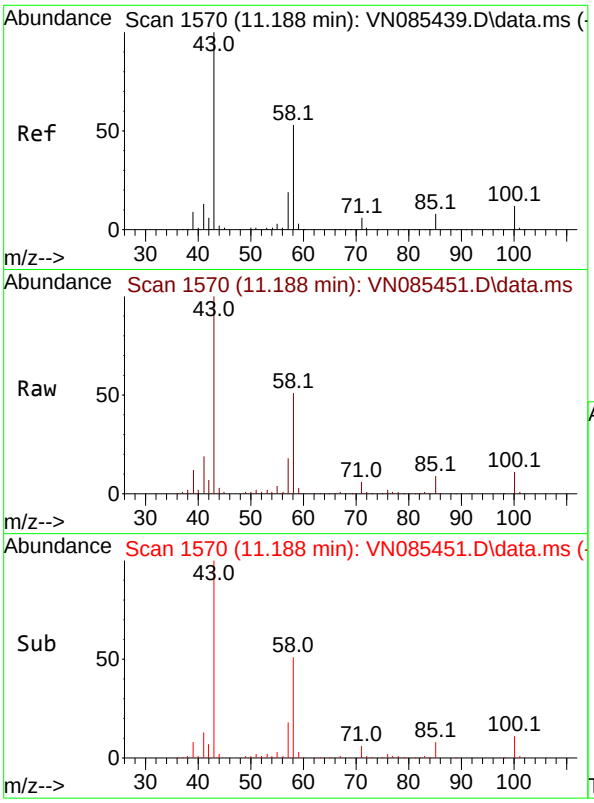


#58
2-Chloroethyl Vinyl ether
Concen: 107.782 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 63 Resp: 148262

Ion	Ratio	Lower	Upper
63	100		
106	25.5	21.6	32.4



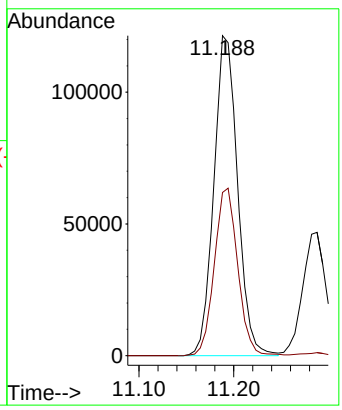


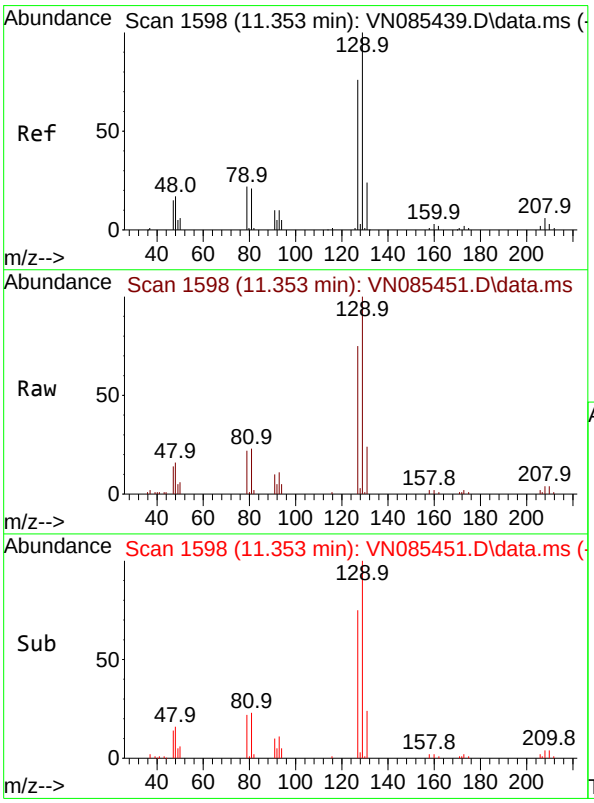
#59
2-Hexanone
Concen: 101.890 ug/l
RT: 11.188 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Tgt Ion: 43 Resp: 211689

Ion	Ratio	Lower	Upper
43	100		
58	51.5	26.2	78.6

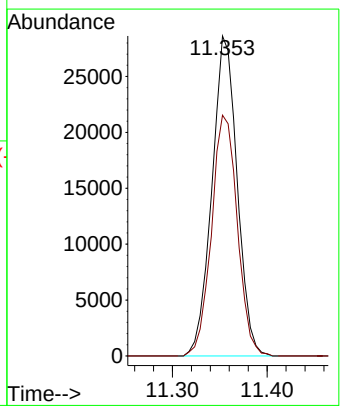


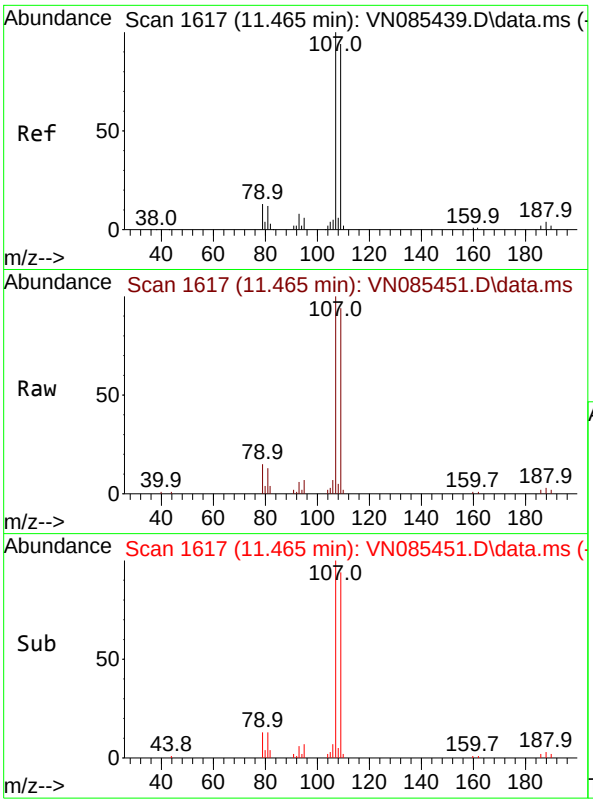


#60
Dibromochloromethane
Concen: 20.236 ug/l
RT: 11.353 min Scan# 1598
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion:129 Resp: 52957

Ion	Ratio	Lower	Upper
129	100		
127	76.8	38.6	115.8



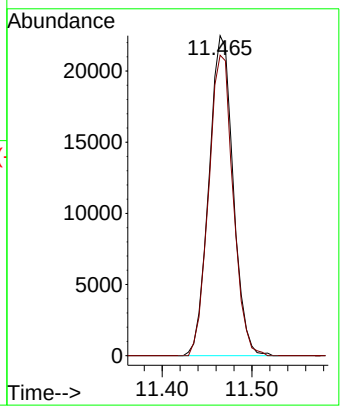


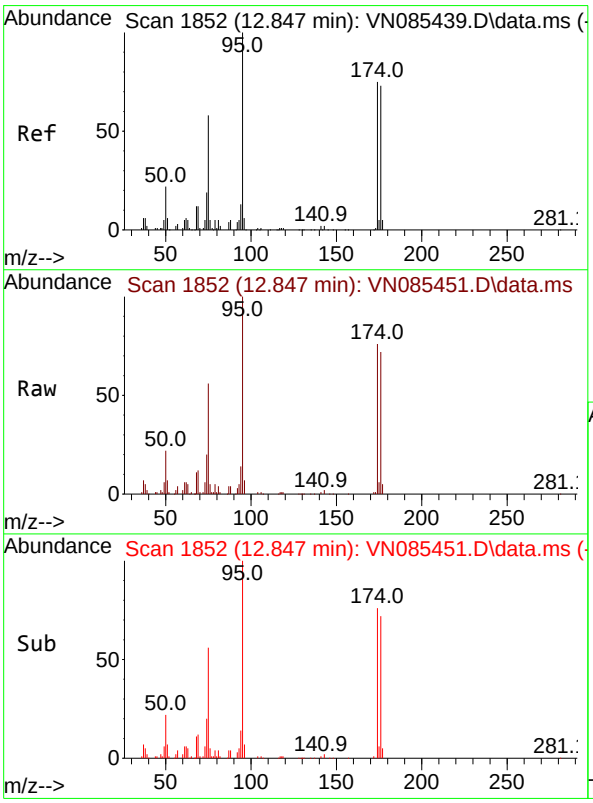
#61
1,2-Dibromoethane
Concen: 19.533 ug/l
RT: 11.465 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Tgt Ion:107 Resp: 42146

Ion	Ratio	Lower	Upper
107	100		
109	94.7	75.9	113.9

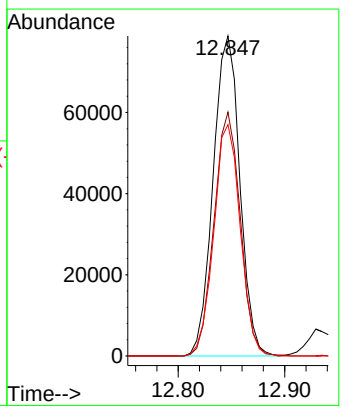


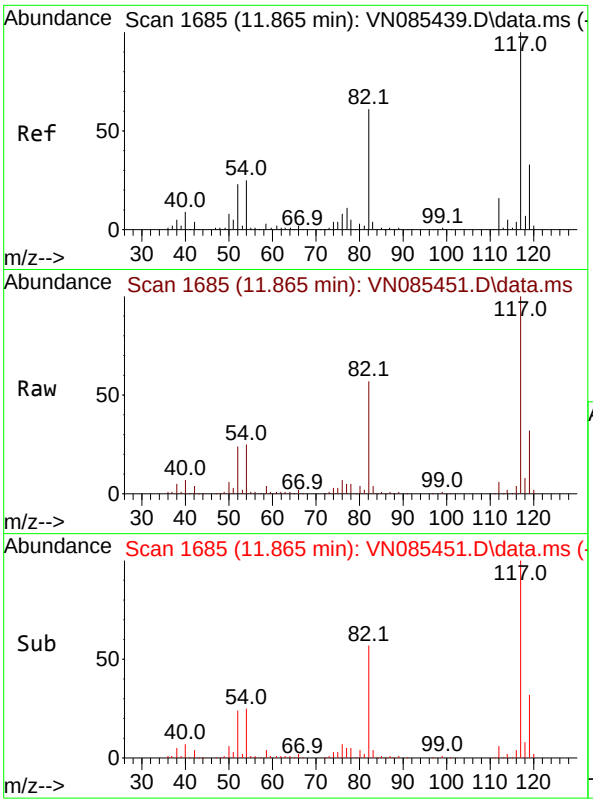


#62
4-Bromofluorobenzene
Concen: 50.364 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 95 Resp: 137216

Ion	Ratio	Lower	Upper
95	100		
174	74.8	0.0	145.0
176	71.6	0.0	142.4



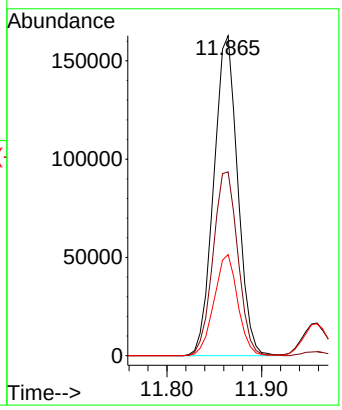


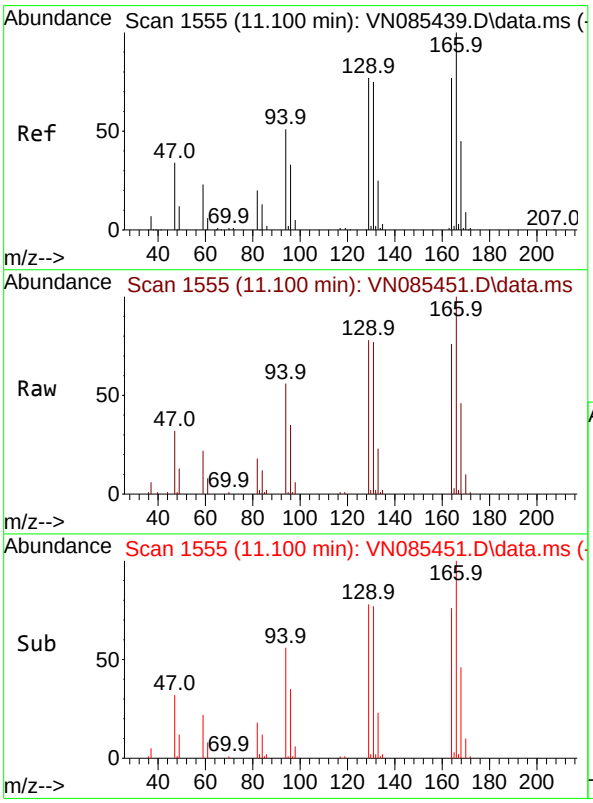
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Tgt Ion:117 Resp: 286298

Ion	Ratio	Lower	Upper
117	100		
82	57.5	48.6	72.8
119	31.6	26.6	39.8

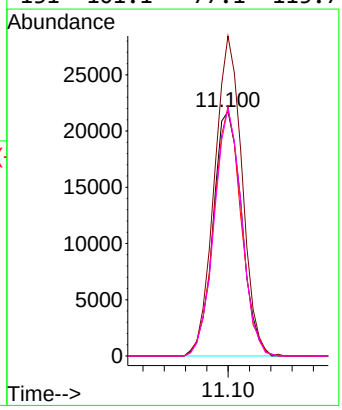


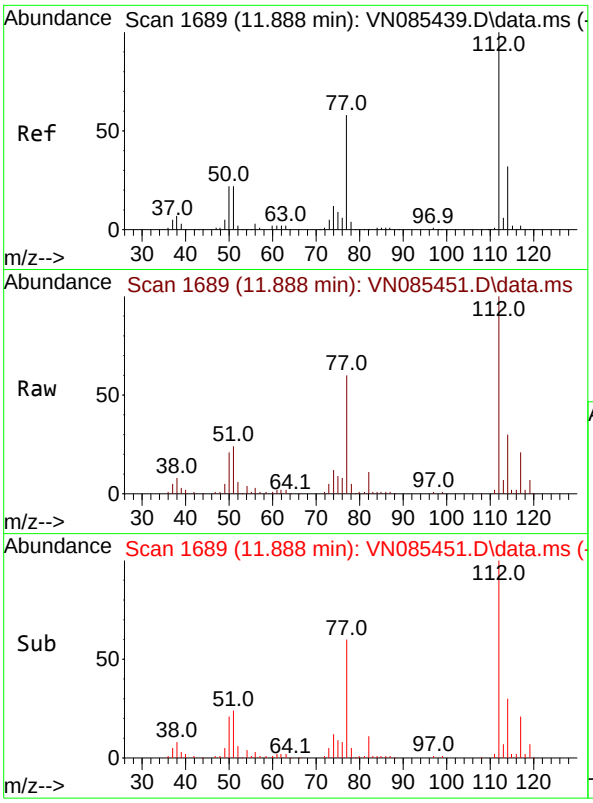


#64
Tetrachloroethene
Concen: 20.740 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion:164 Resp: 40480

Ion	Ratio	Lower	Upper
164	100		
166	130.9	103.4	155.2
129	101.9	79.2	118.8
131	101.1	77.1	115.7



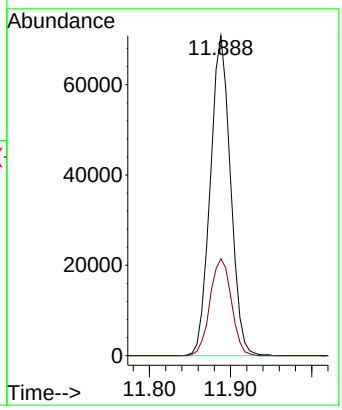


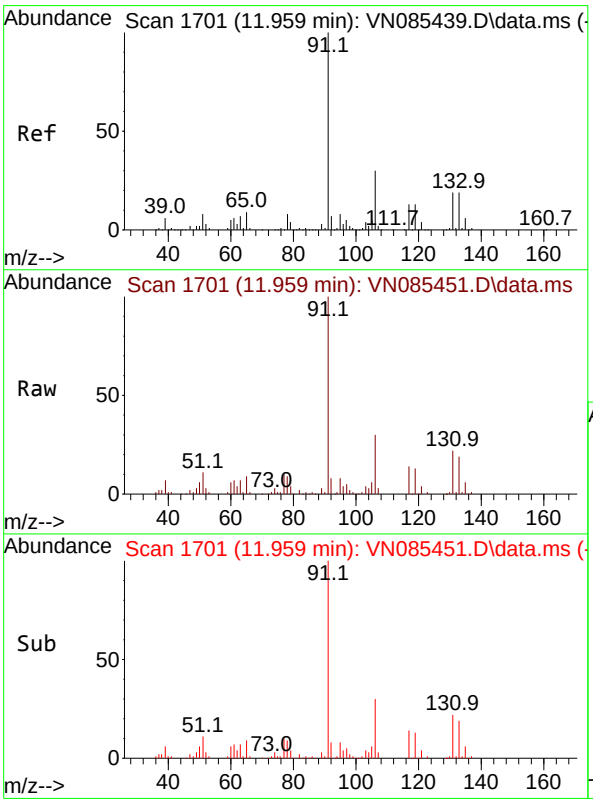
#65
Chlorobenzene
Concen: 19.546 ug/l
RT: 11.888 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Tgt Ion:112 Resp: 122590

Ion	Ratio	Lower	Upper
112	100		
114	30.3	25.3	37.9

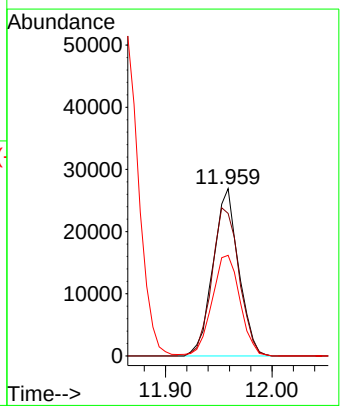


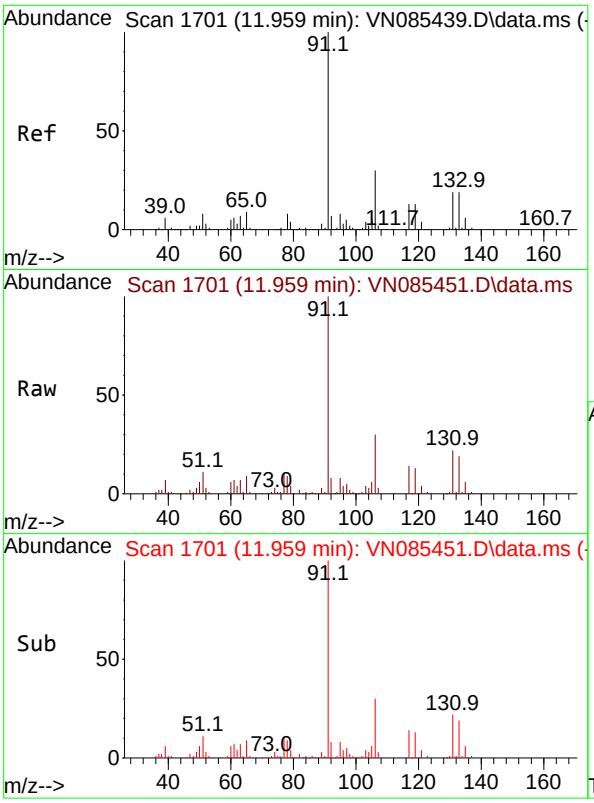


#66
1,1,1,2-Tetrachloroethane
Concen: 19.484 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion:131 Resp: 44850

Ion	Ratio	Lower	Upper
131	100		
133	94.6	47.4	142.3
119	65.9	33.1	99.5



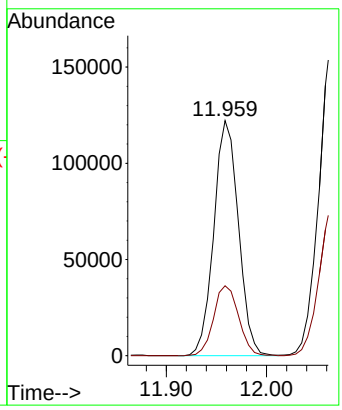


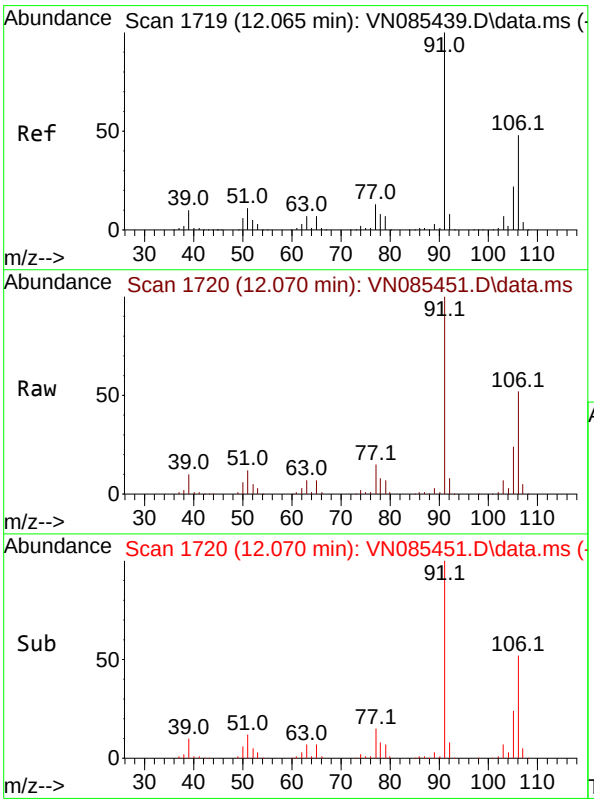
#67
Ethyl Benzene
Concen: 20.381 ug/l
RT: 11.959 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Tgt Ion: 91 Resp: 208196

Ion	Ratio	Lower	Upper
91	100		
106	29.8	23.8	35.8

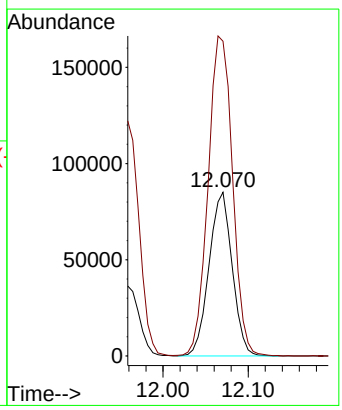


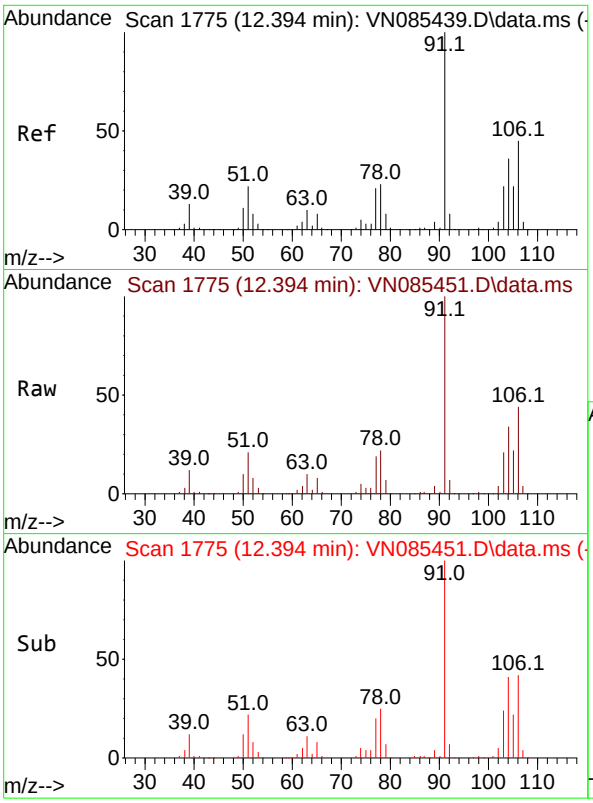


#68
m/p-Xylenes
Concen: 42.515 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. 0.006 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion:106 Resp: 160511

Ion	Ratio	Lower	Upper
106	100		
91	206.6	167.7	251.5



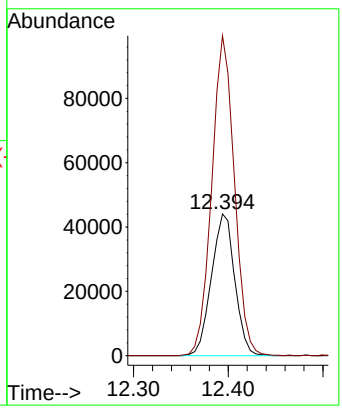


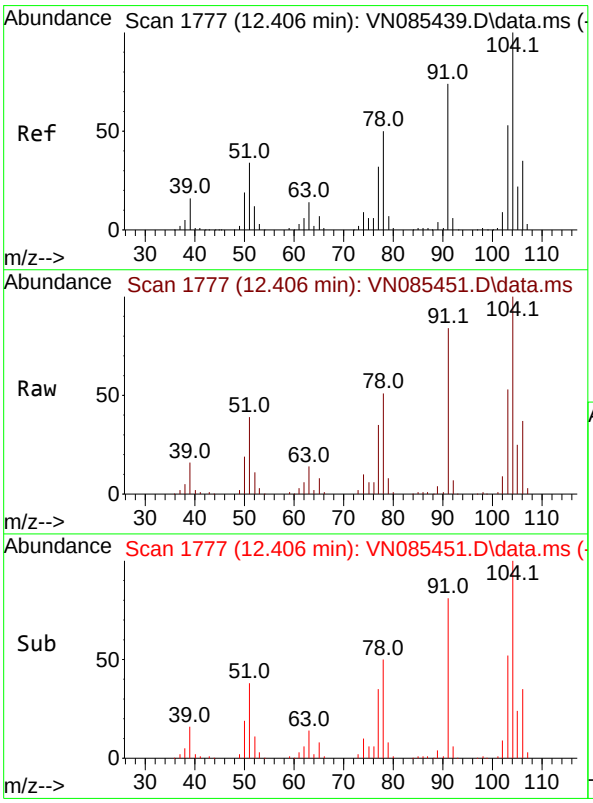
#69
o-Xylene
Concen: 20.928 ug/l
RT: 12.394 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Tgt Ion:106 Resp: 75509

Ion	Ratio	Lower	Upper
106	100		
91	219.1	110.4	331.2

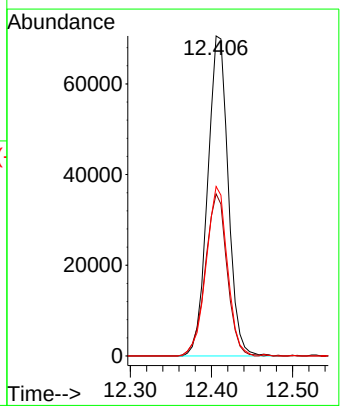


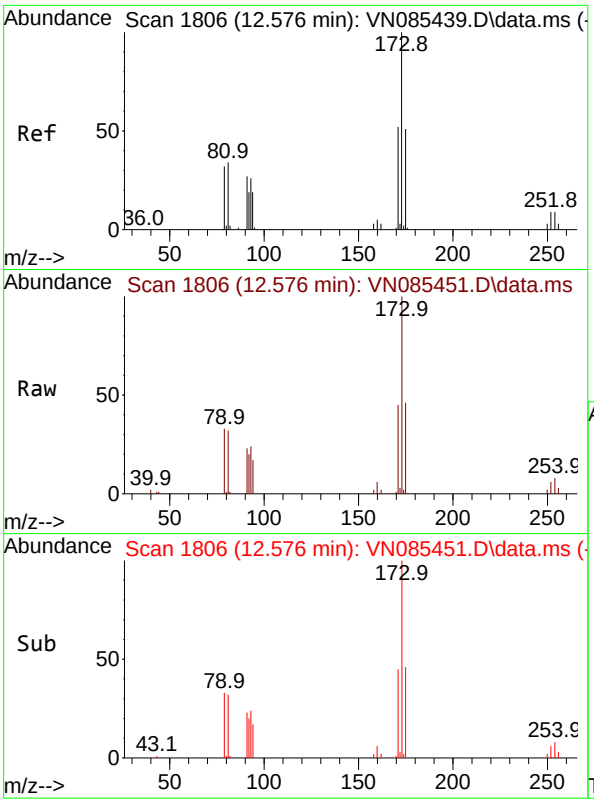


#70
Styrene
Concen: 20.788 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion:104 Resp: 124126

Ion	Ratio	Lower	Upper
104	100		
78	53.5	42.5	63.7
103	54.9	43.8	65.8



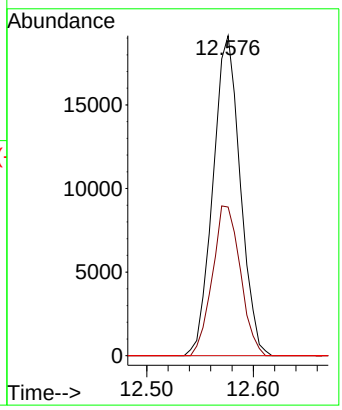


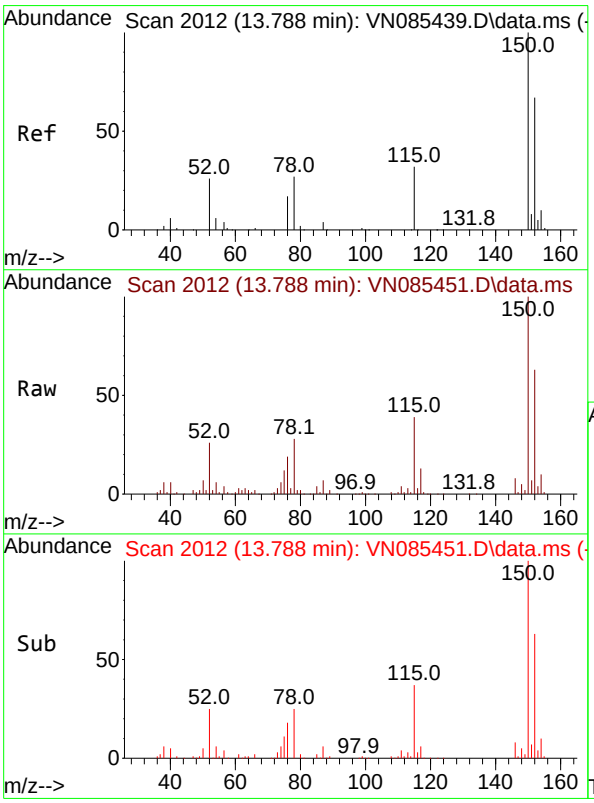
#71
Bromoform
Concen: 20.643 ug/l
RT: 12.576 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Tgt Ion:173 Resp: 34000

Ion	Ratio	Lower	Upper
173	100		
175	48.0	24.4	73.2
254	0.0	0.0	0.0

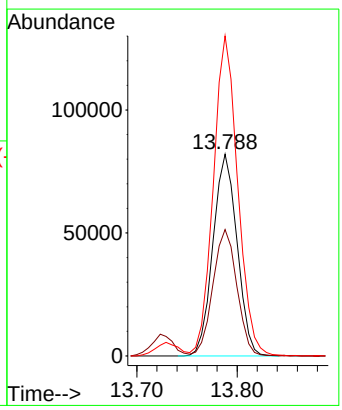


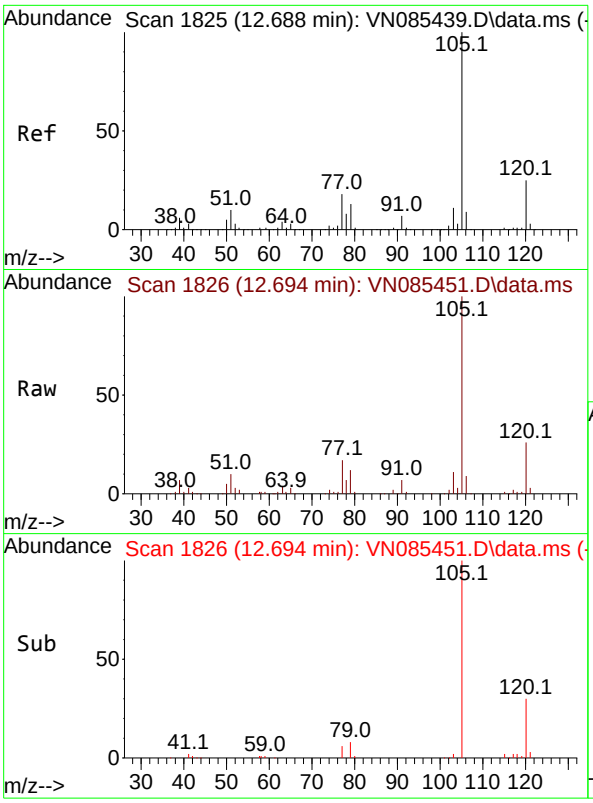


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion:152 Resp: 136502

Ion	Ratio	Lower	Upper
152	100		
115	62.5	31.1	93.3
150	160.9	0.0	343.6



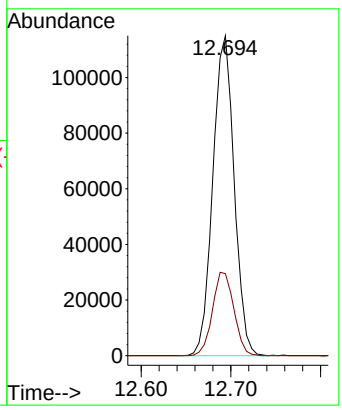


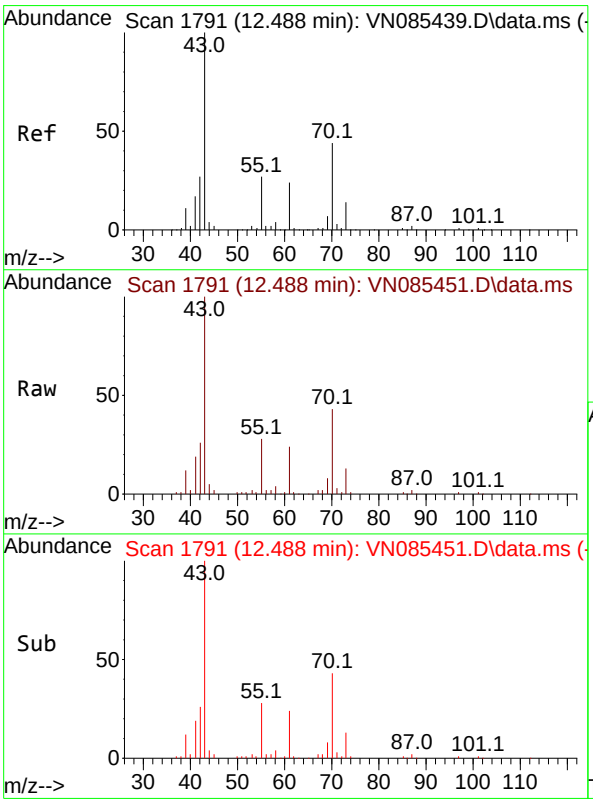
#73
Isopropylbenzene
Concen: 20.582 ug/l
RT: 12.694 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Tgt Ion:105 Resp: 189617

Ion	Ratio	Lower	Upper
105	100		
120	26.1	12.8	38.3

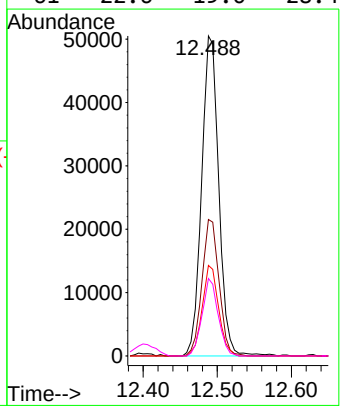


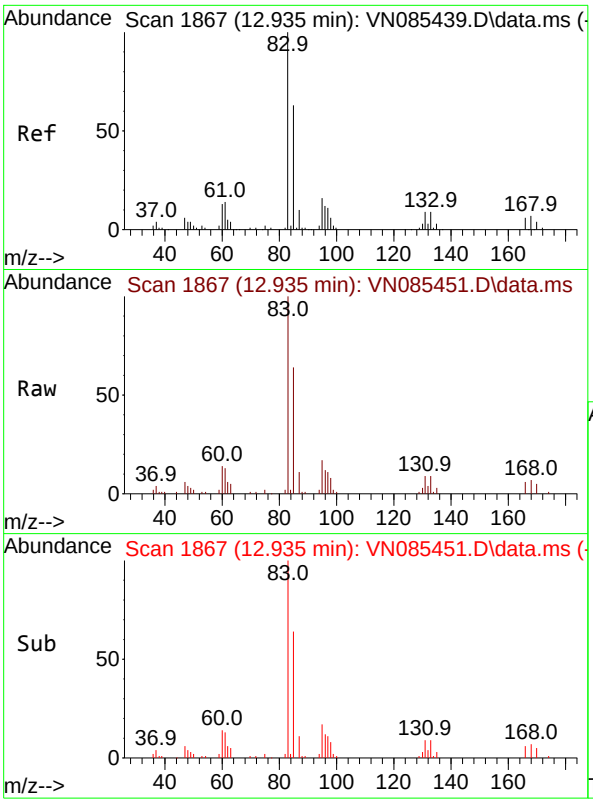


#74
N-amyl acetate
Concen: 19.619 ug/l
RT: 12.488 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 43 Resp: 81241

Ion	Ratio	Lower	Upper
43	100		
70	42.3	34.0	51.0
55	26.9	21.4	32.2
61	22.6	19.0	28.4



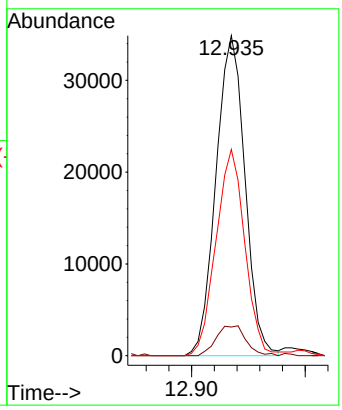


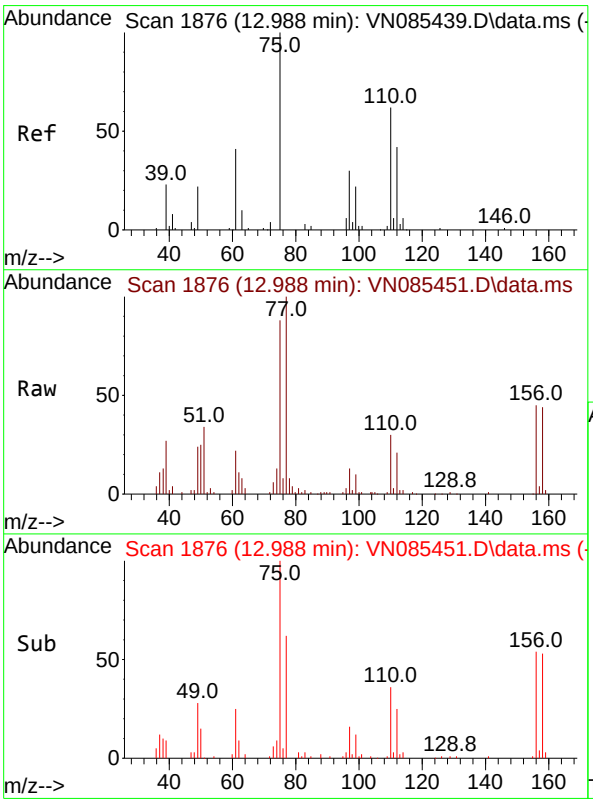
#75
1,1,2,2-Tetrachloroethane
Concen: 19.012 ug/l
RT: 12.935 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Tgt Ion: 83 Resp: 61871

Ion	Ratio	Lower	Upper
83	100		
131	9.6	4.8	14.4
85	63.9	32.2	96.6

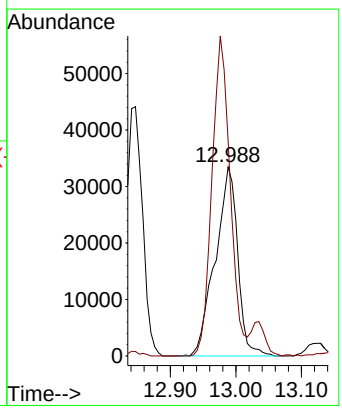


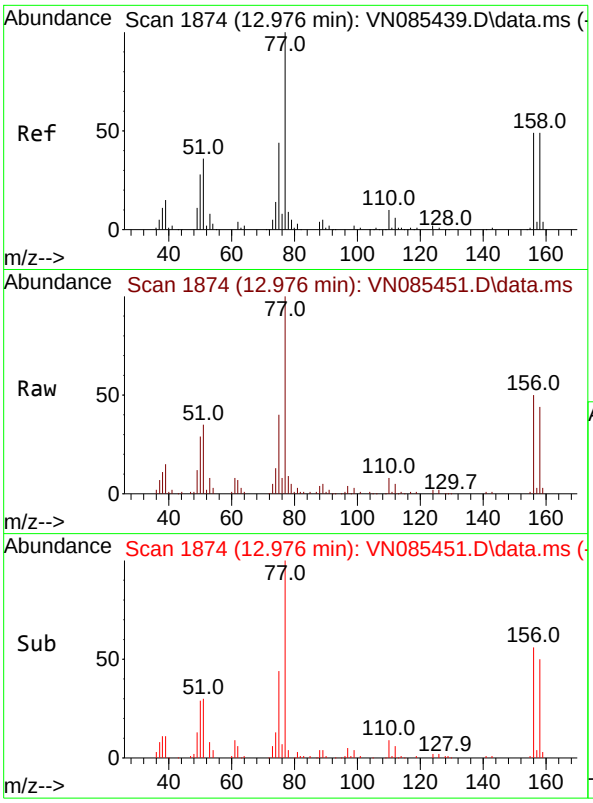


#76
1,2,3-Trichloropropane
Concen: 28.643 ug/l
RT: 12.988 min Scan# 1876
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 75 Resp: 79469

Ion	Ratio	Lower	Upper
75	100		
77	137.8	109.7	329.2



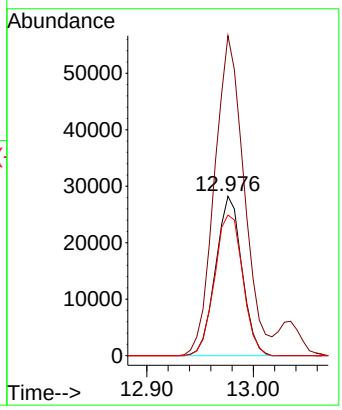


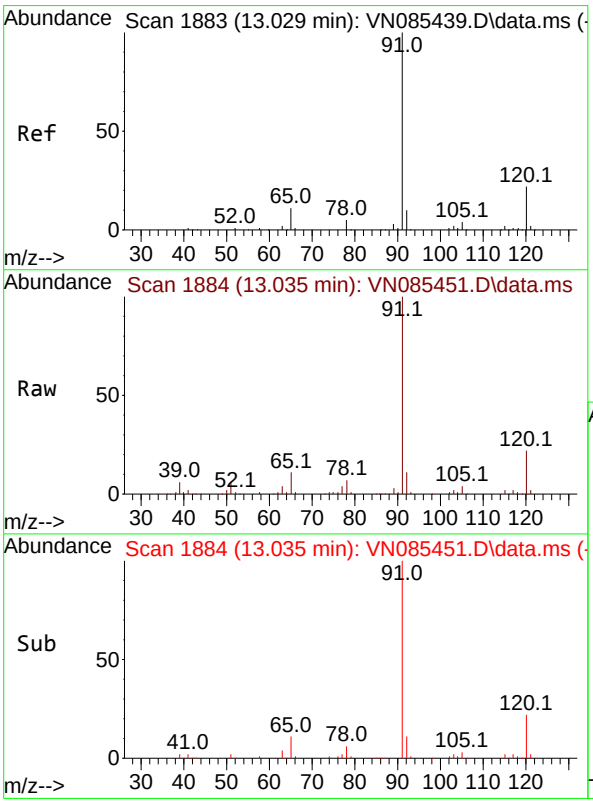
#77
Bromobenzene
Concen: 20.145 ug/l
RT: 12.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Tgt Ion:156 Resp: 48489

Ion	Ratio	Lower	Upper
156	100		
77	225.8	114.1	342.4
158	94.1	48.9	146.8

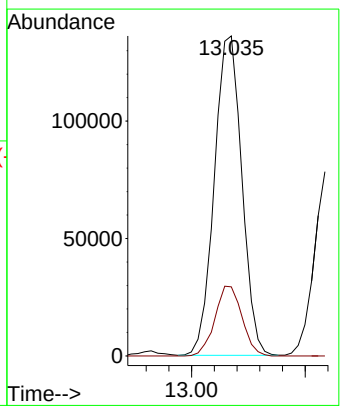


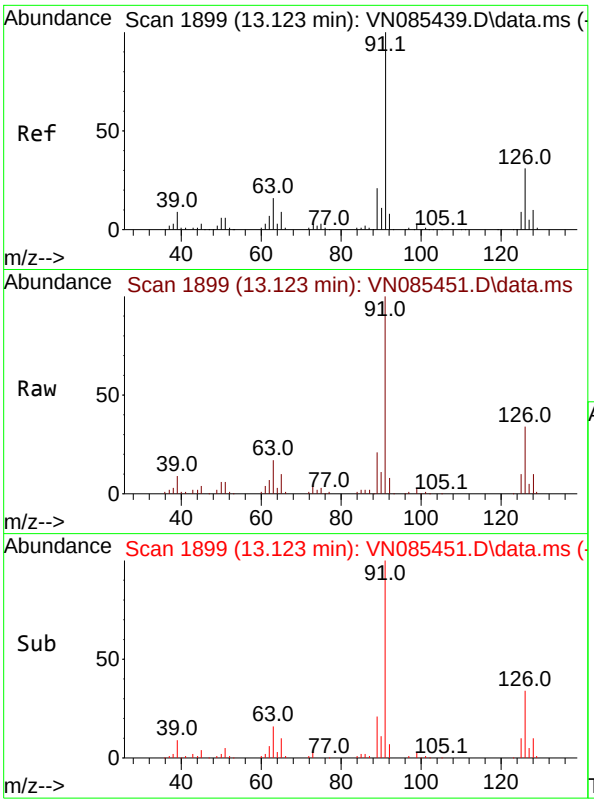


#78
n-propylbenzene
Concen: 20.981 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.006 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 91 Resp: 228827

Ion	Ratio	Lower	Upper
91	100		
120	21.5	10.9	32.6



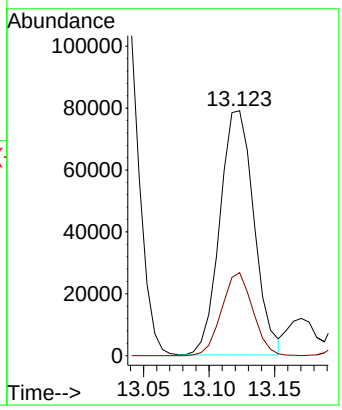


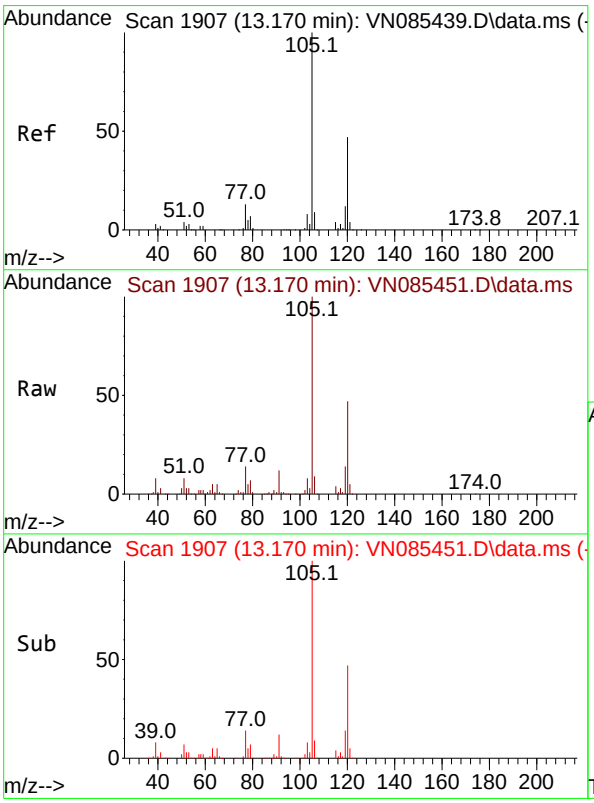
#79
2-Chlorotoluene
Concen: 20.272 ug/l
RT: 13.123 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Tgt Ion: 91 Resp: 143092

Ion	Ratio	Lower	Upper
91	100		
126	31.0	15.7	47.1

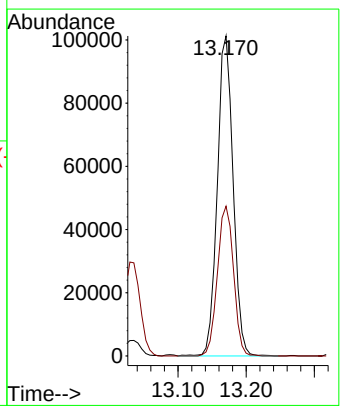


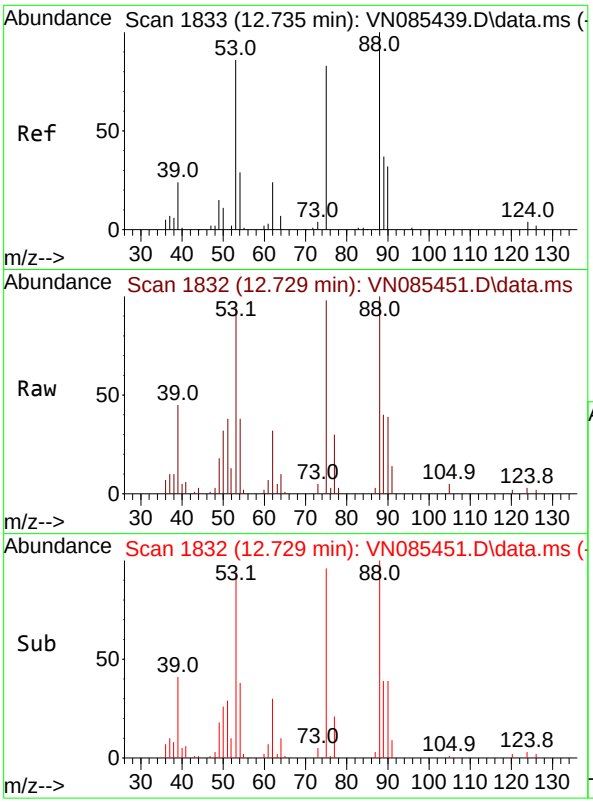


#80
1,3,5-Trimethylbenzene
Concen: 21.445 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion:105 Resp: 163195

Ion	Ratio	Lower	Upper
105	100		
120	47.8	23.9	71.7



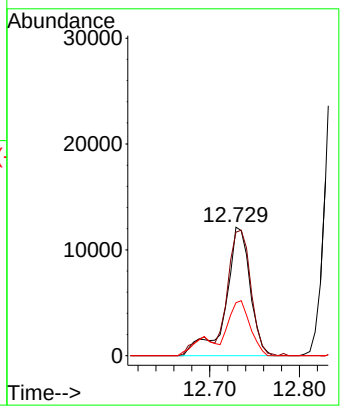


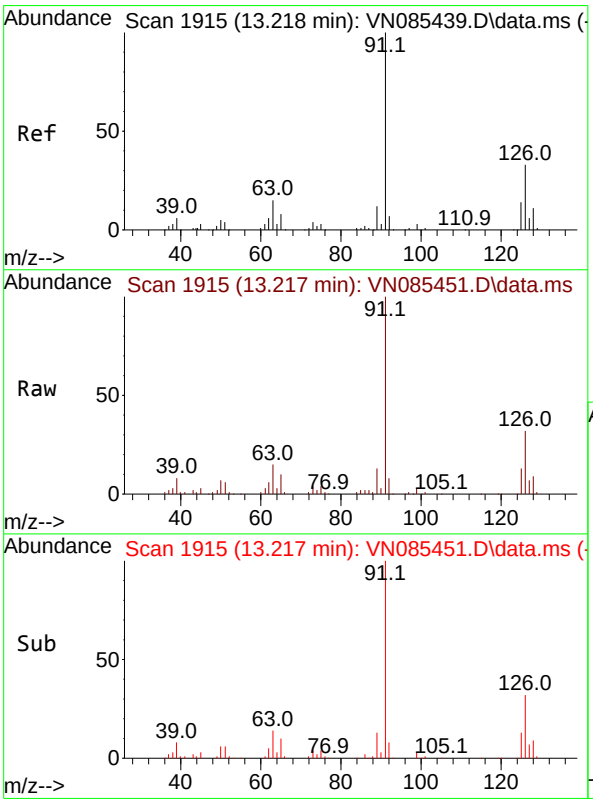
#81
trans-1,4-Dichloro-2-butene
Concen: 22.347 ug/l
RT: 12.729 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Tgt Ion: 75 Resp: 22916

Ion	Ratio	Lower	Upper
75	100		
53	91.5	95.6	143.4#
89	37.4	37.0	55.6

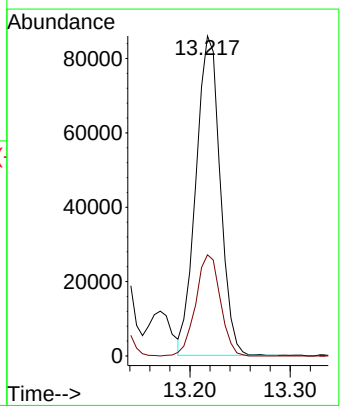


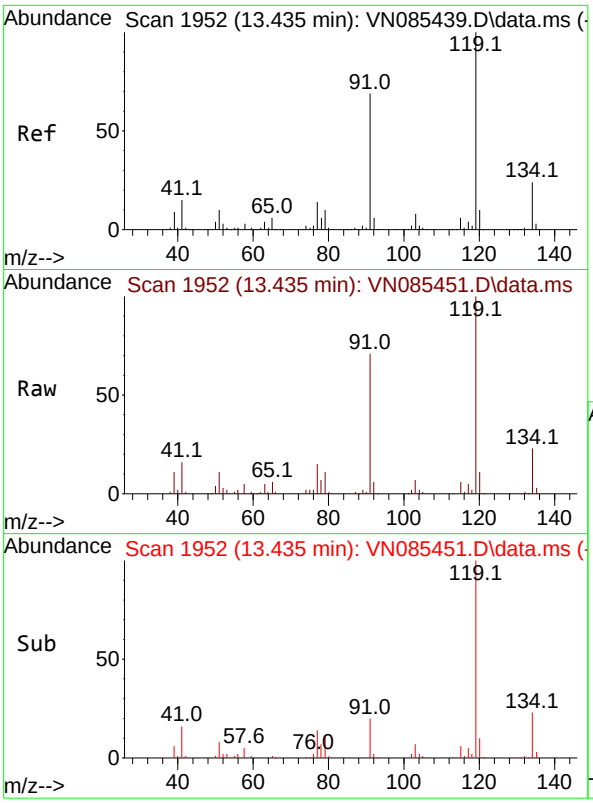


#82
4-Chlorotoluene
Concen: 20.562 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 91 Resp: 144513

Ion	Ratio	Lower	Upper
91	100		
126	32.2	15.9	47.7



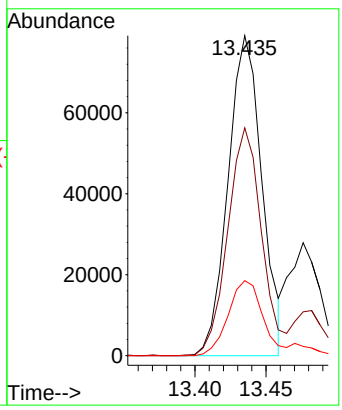


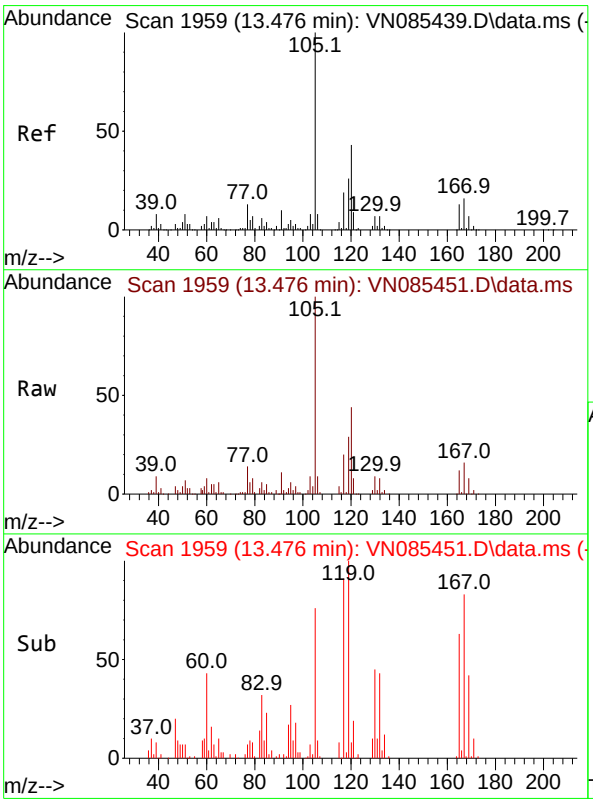
#83
tert-Butylbenzene
Concen: 20.501 ug/l
RT: 13.435 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Tgt Ion:119 Resp: 131013

Ion	Ratio	Lower	Upper
119	100		
91	71.6	35.1	105.3
134	24.0	12.0	36.1

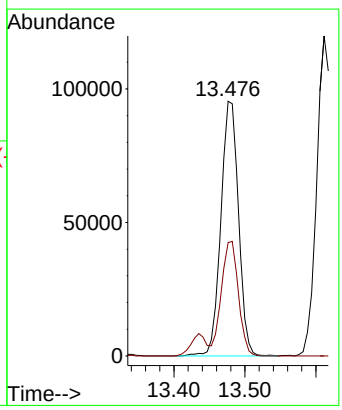


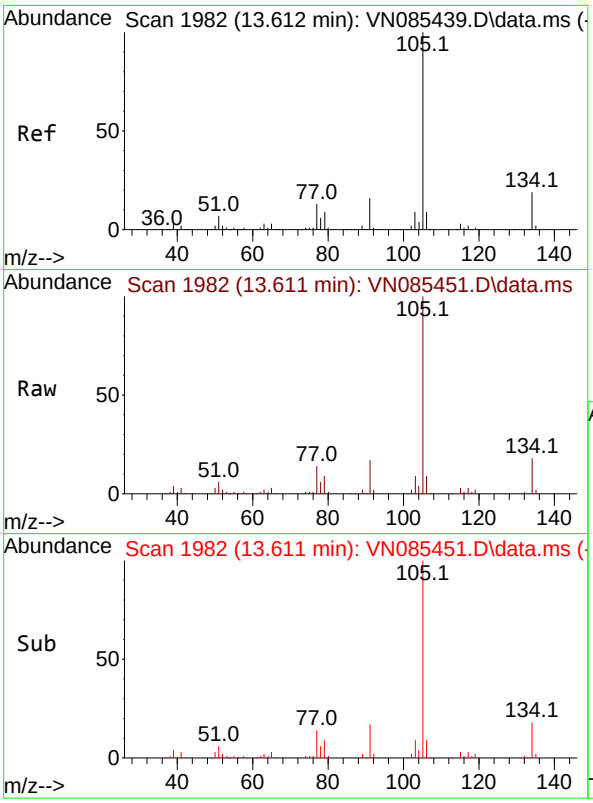


#84
1,2,4-Trimethylbenzene
Concen: 21.634 ug/l
RT: 13.476 min Scan# 1959
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion:105 Resp: 164079

Ion	Ratio	Lower	Upper
105	100		
120	43.3	21.6	65.0



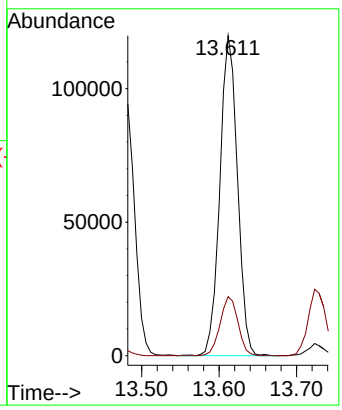


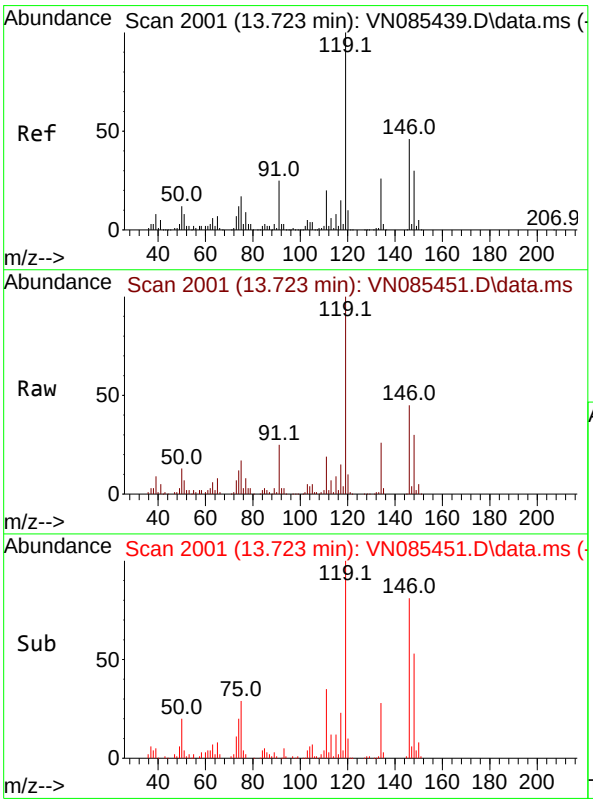
#85
sec-Butylbenzene
Concen: 21.398 ug/l
RT: 13.611 min Scan# 1
Delta R.T. -0.001 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Tgt Ion:105 Resp: 189519

Ion	Ratio	Lower	Upper
105	100		
134	18.7	9.7	28.9

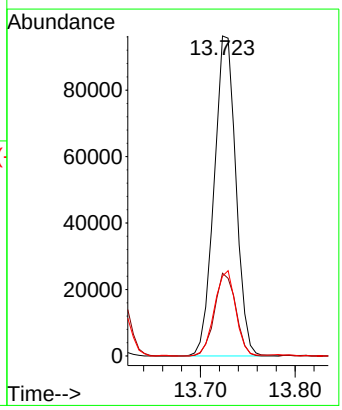


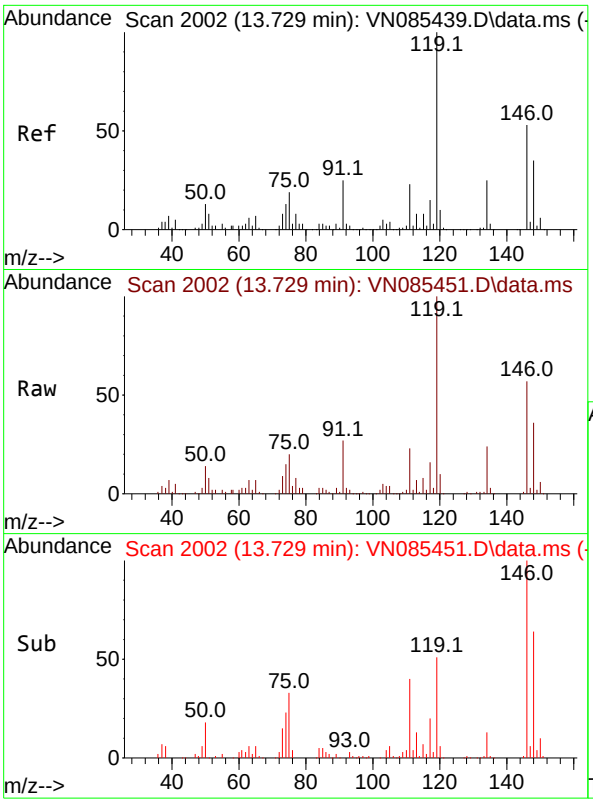


#86
p-Isopropyltoluene
Concen: 20.798 ug/l
RT: 13.723 min Scan# 2001
Delta R.T. 0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion:119 Resp: 153867

Ion	Ratio	Lower	Upper
119	100		
134	25.3	12.7	38.0
91	26.0	12.7	38.1



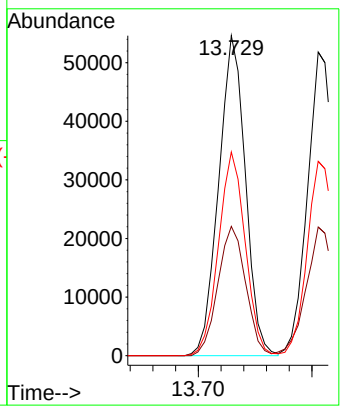


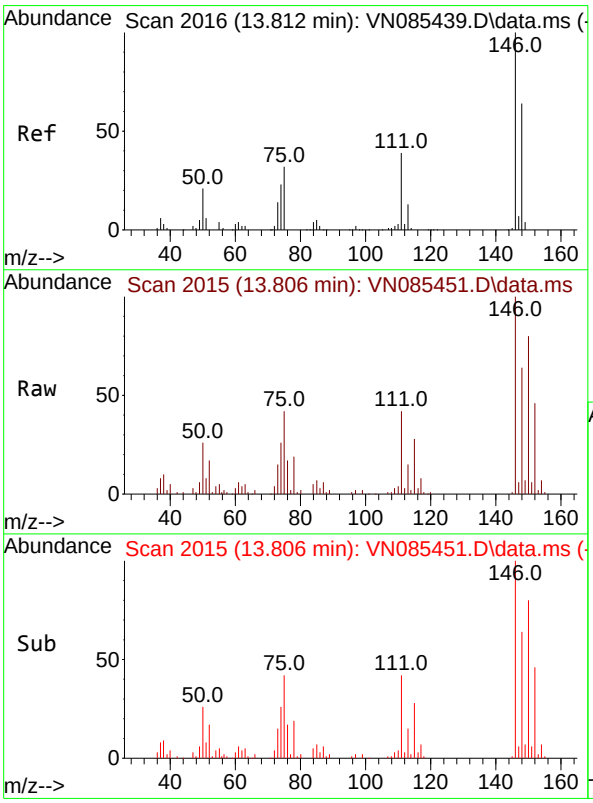
#87
1,3-Dichlorobenzene
Concen: 20.107 ug/l
RT: 13.729 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Tgt Ion:146 Resp: 89126

Ion	Ratio	Lower	Upper
146	100		
111	42.0	21.4	64.3
148	63.8	32.3	96.9

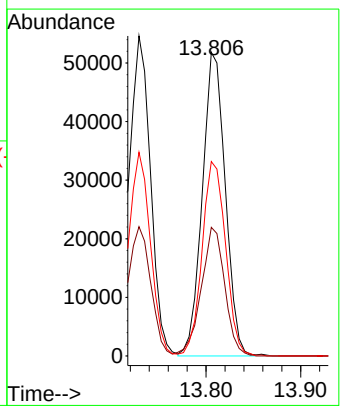


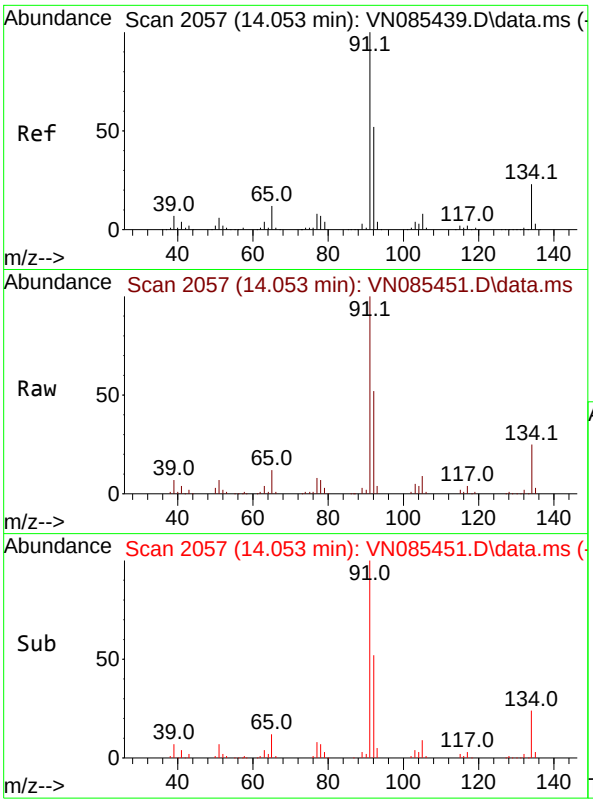


#88
1,4-Dichlorobenzene
Concen: 19.057 ug/l
RT: 13.806 min Scan# 2015
Delta R.T. -0.006 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion:146 Resp: 87559

Ion	Ratio	Lower	Upper
146	100		
111	43.5	21.3	63.7
148	65.5	32.4	97.0



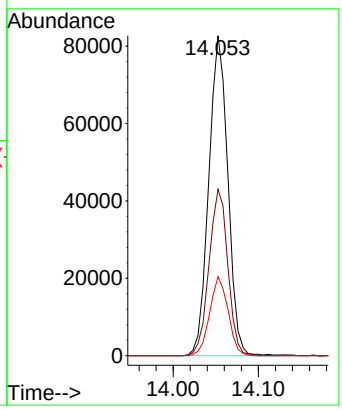


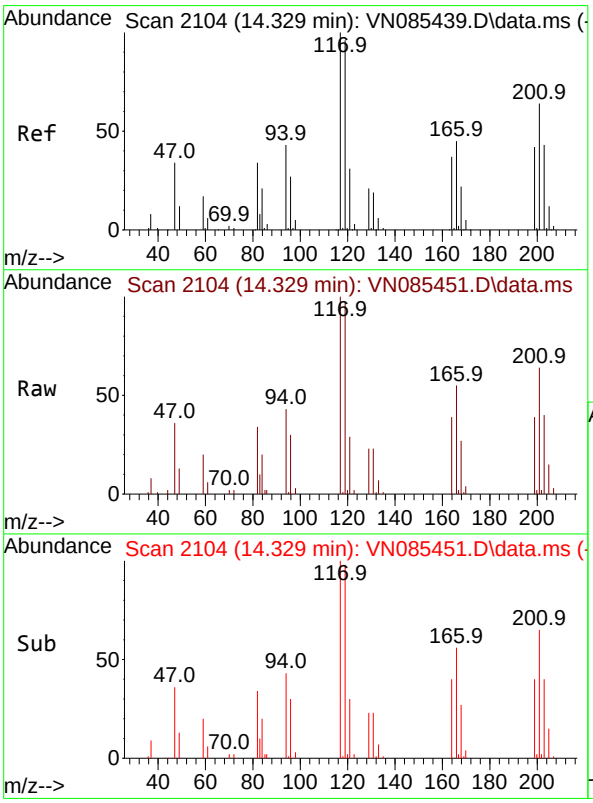
#89
n-Butylbenzene
Concen: 20.183 ug/l
RT: 14.053 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Tgt Ion: 91 Resp: 128246

Ion	Ratio	Lower	Upper
91	100		
92	51.4	25.8	77.3
134	23.8	11.7	35.1

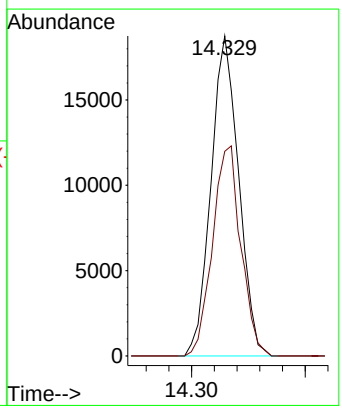


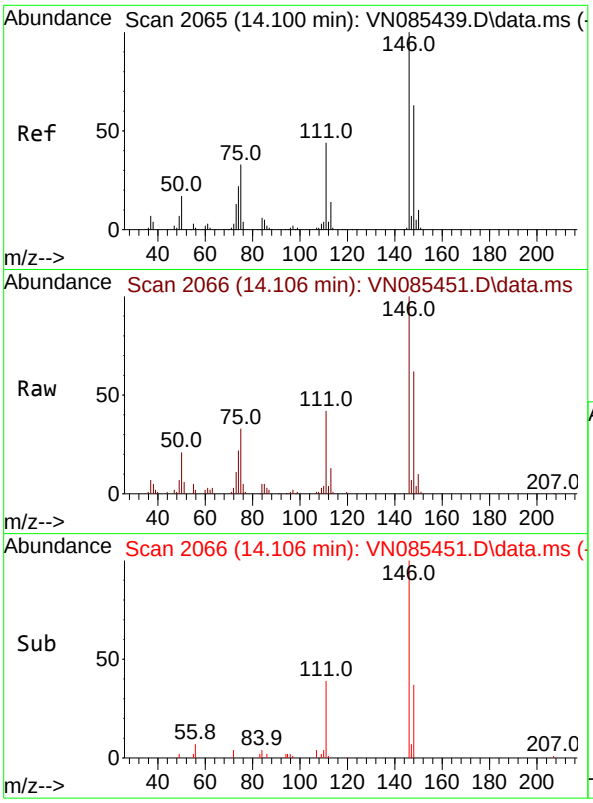


#90
Hexachloroethane
Concen: 18.820 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion:117 Resp: 31733

Ion	Ratio	Lower	Upper
117	100		
201	67.1	33.7	101.0



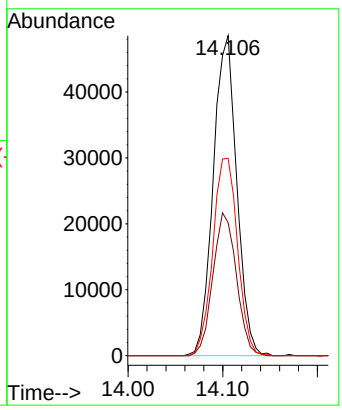


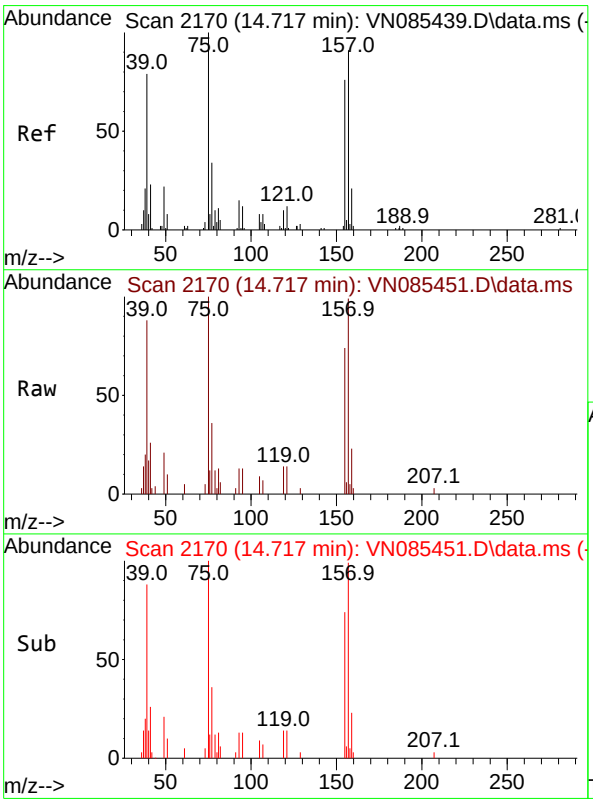
#91
1,2-Dichlorobenzene
Concen: 18.967 ug/l
RT: 14.106 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Tgt Ion:146 Resp: 83864

Ion	Ratio	Lower	Upper
146	100		
111	44.6	21.7	65.1
148	64.9	31.4	94.2

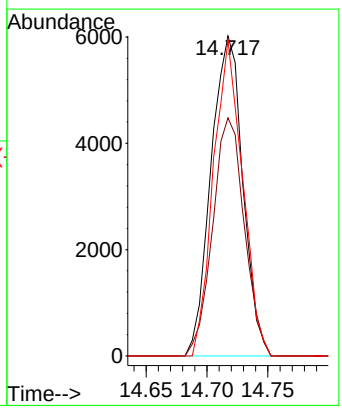


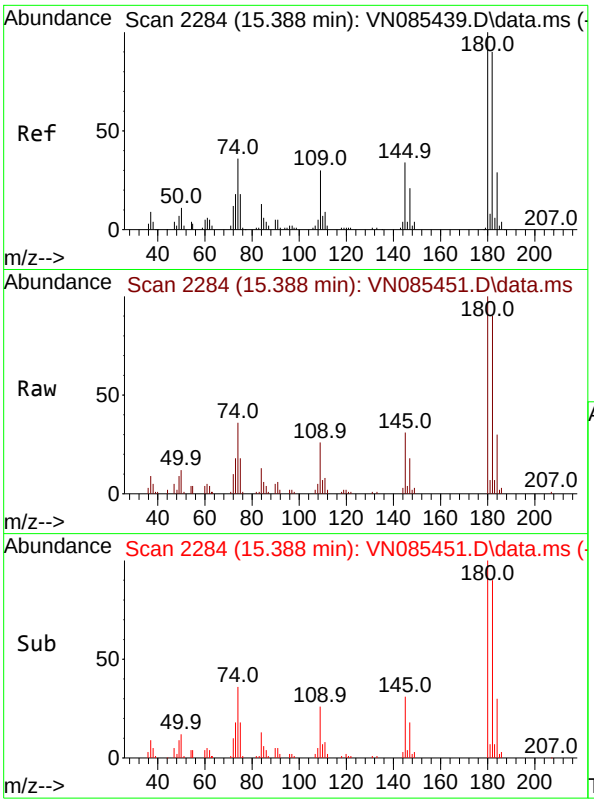


#92
1,2-Dibromo-3-Chloropropane
Concen: 18.416 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion: 75 Resp: 10944

Ion	Ratio	Lower	Upper
75	100		
155	74.0	36.4	109.2
157	90.2	45.4	136.1



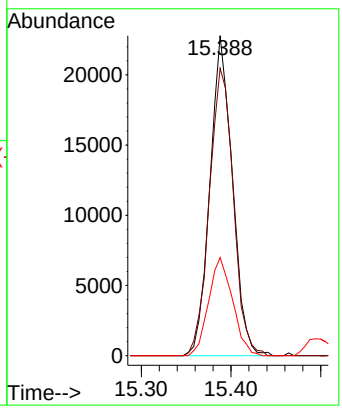


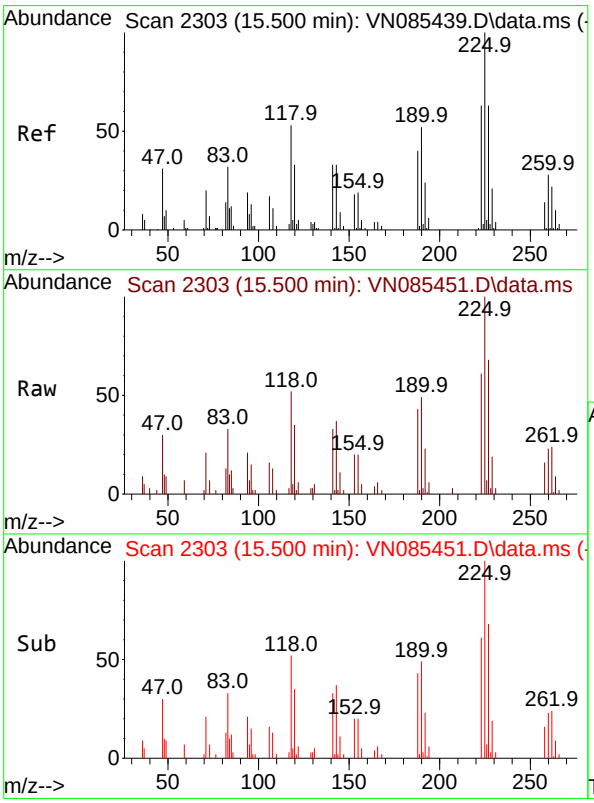
#93
1,2,4-Trichlorobenzene
Concen: 19.248 ug/l
RT: 15.388 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Tgt Ion:180 Resp: 39555

Ion	Ratio	Lower	Upper
180	100		
182	96.1	46.8	140.3
145	32.8	16.0	48.0

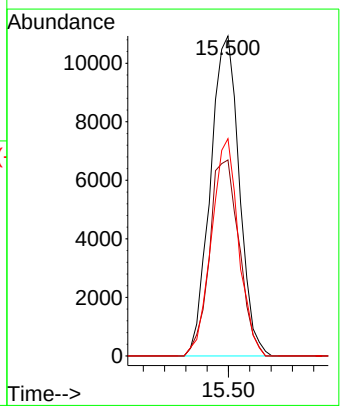


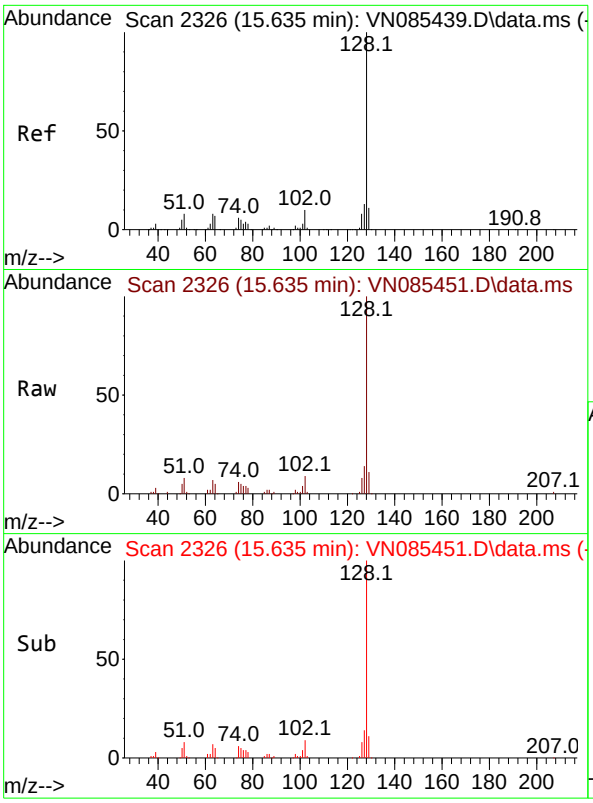


#94
Hexachlorobutadiene
Concen: 18.872 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion:225 Resp: 20590

Ion	Ratio	Lower	Upper
225	100		
223	62.9	30.7	92.1
227	63.8	30.9	92.5



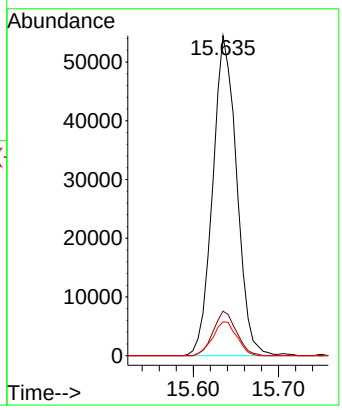


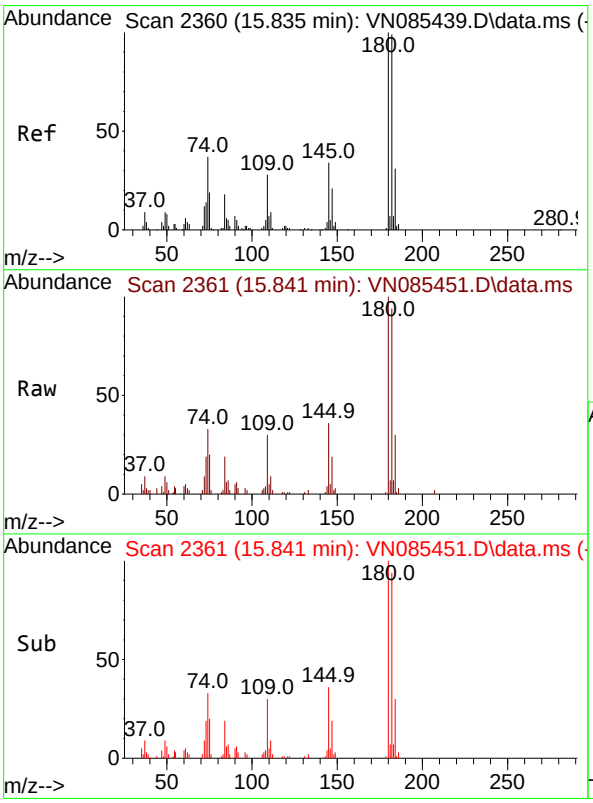
#95
Naphthalene
Concen: 17.334 ug/l
RT: 15.635 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Instrument :
MSVOA_N
ClientSampleId :
VN0115WBSD01

Tgt Ion:128 Resp: 106293

Ion	Ratio	Lower	Upper
128	100		
127	13.4	10.6	16.0
129	10.7	8.8	13.2

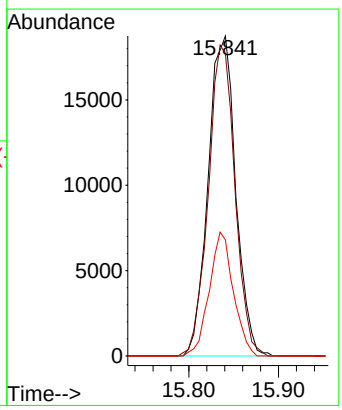




#96
1,2,3-Trichlorobenzene
Concen: 19.221 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. 0.006 min
Lab File: VN085451.D
Acq: 15 Jan 2025 11:02

Tgt Ion:180 Resp: 39966

Ion	Ratio	Lower	Upper
180	100		
182	94.0	47.4	142.2
145	33.9	16.9	50.7



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085463.D
Acq On : 15 Jan 2025 15:58
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Quant Time: Jan 16 01:00:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.218	168	218558	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	374640	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	330319	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	166317	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	183857	52.114	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 104.220%			
35) Dibromofluoromethane	8.165	113	134312	51.677	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.360%			
50) Toluene-d8	10.565	98	498748	54.009	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 108.020%			
62) 4-Bromofluorobenzene	12.847	95	177300	56.127	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 112.260%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	149573	50.545	ug/l	99
3) Chloromethane	2.359	50	153360	47.865	ug/l	97
4) Vinyl Chloride	2.512	62	154638	48.017	ug/l	99
5) Bromomethane	2.948	94	89160	45.833	ug/l	100
6) Chloroethane	3.118	64	99471	48.718	ug/l	98
7) Trichlorofluoromethane	3.500	101	234589	50.203	ug/l	98
8) Diethyl Ether	3.959	74	78639	48.714	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.371	101	133519	50.730	ug/l	99
10) Methyl Iodide	4.589	142	158063	52.443	ug/l	97
11) Tert butyl alcohol	5.506	59	107622	266.406	ug/l	98
12) 1,1-Dichloroethene	4.342	96	120856	51.524	ug/l	97
13) Acrolein	4.171	56	156827	284.383	ug/l	98
14) Allyl chloride	5.018	41	195577	51.384	ug/l	98
15) Acrylonitrile	5.718	53	337135	262.738	ug/l	98
16) Acetone	4.418	43	286337	251.190	ug/l	97
17) Carbon Disulfide	4.712	76	338441	46.862	ug/l	99
18) Methyl Acetate	5.018	43	179563	51.803	ug/l	100
19) Methyl tert-butyl Ether	5.794	73	424024	55.672	ug/l	100
20) Methylene Chloride	5.277	84	139560	49.455	ug/l	93
21) trans-1,2-Dichloroethene	5.783	96	127358	50.805	ug/l	96
22) Diisopropyl ether	6.665	45	467061	55.286	ug/l	96
23) Vinyl Acetate	6.600	43	1731604	292.883	ug/l	99
24) 1,1-Dichloroethane	6.565	63	264195	51.287	ug/l	98
25) 2-Butanone	7.477	43	452029	269.467	ug/l	99
26) 2,2-Dichloropropane	7.488	77	236796	56.857	ug/l	99
27) cis-1,2-Dichloroethene	7.483	96	155179	52.557	ug/l	99
28) Bromochloromethane	7.806	49	119440	49.837	ug/l	99
29) Tetrahydrofuran	7.835	42	302642	284.562	ug/l	98
30) Chloroform	7.965	83	271813	51.054	ug/l	99
31) Cyclohexane	8.253	56	218304	48.757	ug/l	95
32) 1,1,1-Trichloroethane	8.165	97	237039	50.757	ug/l	97
36) 1,1-Dichloropropene	8.371	75	184438	50.562	ug/l	99
37) Ethyl Acetate	7.553	43	187078	50.810	ug/l	98
38) Carbon Tetrachloride	8.359	117	212942	50.991	ug/l	100
39) Methylcyclohexane	9.594	83	196879	57.436	ug/l	97
40) Benzene	8.600	78	567975	51.821	ug/l	99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085463.D
Acq On : 15 Jan 2025 15:58
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Quant Time: Jan 16 01:00:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.771	41	105319	54.981	ug/l		98
42) 1,2-Dichloroethane	8.665	62	213125	51.629	ug/l		99
43) Isopropyl Acetate	8.682	43	339818	57.599	ug/l		96
44) Trichloroethene	9.347	130	125677	49.260	ug/l		95
45) 1,2-Dichloropropane	9.618	63	142897	51.043	ug/l		99
46) Dibromomethane	9.706	93	100497	49.750	ug/l		97
47) Bromodichloromethane	9.882	83	217353	52.814	ug/l		99
48) Methyl methacrylate	9.677	41	153447	57.796	ug/l		98
49) 1,4-Dioxane	9.688	88	43495	972.836	ug/l		99
51) 4-Methyl-2-Pentanone	10.441	43	967748	282.679	ug/l		100
52) Toluene	10.629	92	349488	55.032	ug/l		98
53) t-1,3-Dichloropropene	10.829	75	217586	55.946	ug/l		97
54) cis-1,3-Dichloropropene	10.312	75	231235	55.661	ug/l		99
55) 1,1,2-Trichloroethane	11.012	97	130083	51.759	ug/l		99
56) Ethyl methacrylate	10.871	69	211176	49.885	ug/l		98
57) 1,3-Dichloropropane	11.159	76	233088	53.338	ug/l		100
58) 2-Chloroethyl Vinyl ether	10.159	63	462882	290.228	ug/l		99
59) 2-Hexanone	11.194	43	703719	292.136	ug/l		99
60) Dibromochloromethane	11.353	129	158806	52.339	ug/l		100
61) 1,2-Dibromoethane	11.465	107	127688	51.040	ug/l		99
64) Tetrachloroethene	11.100	164	106305	47.207	ug/l		99
65) Chlorobenzene	11.888	112	371312	51.313	ug/l		97
66) 1,1,1,2-Tetrachloroethane	11.959	131	133724	50.351	ug/l		99
67) Ethyl Benzene	11.959	91	665536	56.469	ug/l		99
68) m/p-Xylenes	12.065	106	498925	114.541	ug/l		99
69) o-Xylene	12.394	106	236130	56.724	ug/l		99
70) Styrene	12.406	104	408614	59.312	ug/l		99
71) Bromoform	12.576	173	105169	55.344	ug/l	#	98
73) Isopropylbenzene	12.694	105	614595	54.752	ug/l		100
74) N-amyl acetate	12.488	43	283775	56.244	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.935	83	195465	49.296	ug/l		99
76) 1,2,3-Trichloropropane	12.988	75	257490	76.171	ug/l		45
77) Bromobenzene	12.976	156	146854	50.075	ug/l		99
78) n-propylbenzene	13.035	91	748465	56.324	ug/l		100
79) 2-Chlorotoluene	13.123	91	450235	52.351	ug/l		99
80) 1,3,5-Trimethylbenzene	13.170	105	523728	56.485	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.735	75	79734	63.816	ug/l		86
82) 4-Chlorotoluene	13.217	91	459658	53.678	ug/l		100
83) tert-Butylbenzene	13.435	119	437674	56.211	ug/l		100
84) 1,2,4-Trimethylbenzene	13.476	105	531276	57.491	ug/l		100
85) sec-Butylbenzene	13.612	105	626587	58.063	ug/l		100
86) p-Isopropyltoluene	13.729	119	525049	53.560	ug/l		100
87) 1,3-Dichlorobenzene	13.729	146	277409	51.364	ug/l		98
88) 1,4-Dichlorobenzene	13.812	146	272594	48.694	ug/l		99
89) n-Butylbenzene	14.053	91	455243	58.802	ug/l		99
90) Hexachloroethane	14.329	117	103728	50.491	ug/l		99
91) 1,2-Dichlorobenzene	14.100	146	266635	49.494	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	36986	51.081	ug/l		97
93) 1,2,4-Trichlorobenzene	15.388	180	133515	53.324	ug/l		99
94) Hexachlorobutadiene	15.500	225	64832	48.771	ug/l		99
95) Naphthalene	15.635	128	399446	53.462	ug/l		99
96) 1,2,3-Trichlorobenzene	15.835	180	128843	50.856	ug/l		99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085463.D
Acq On : 15 Jan 2025 15:58
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Quant Time: Jan 16 01:00:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

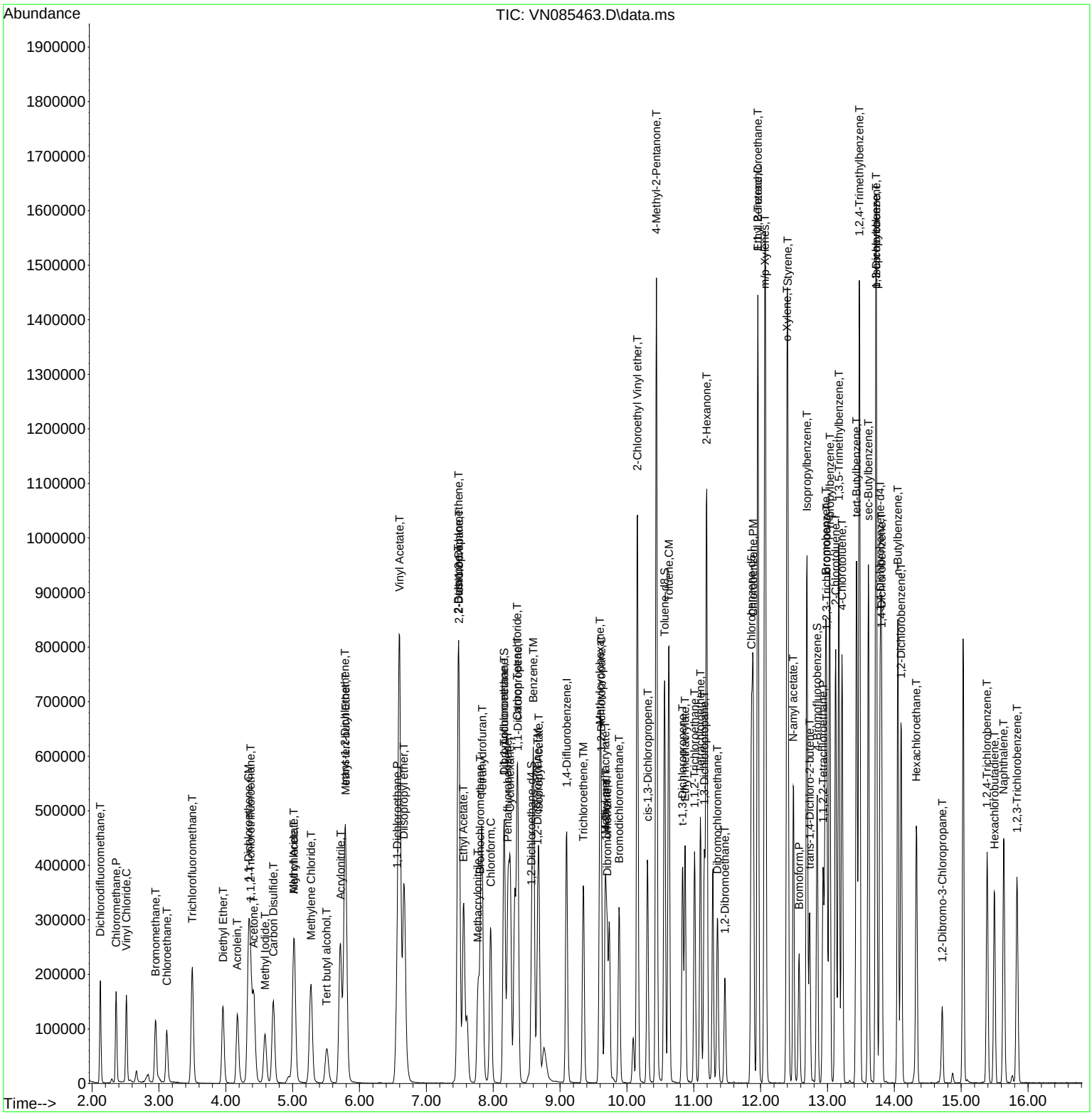
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

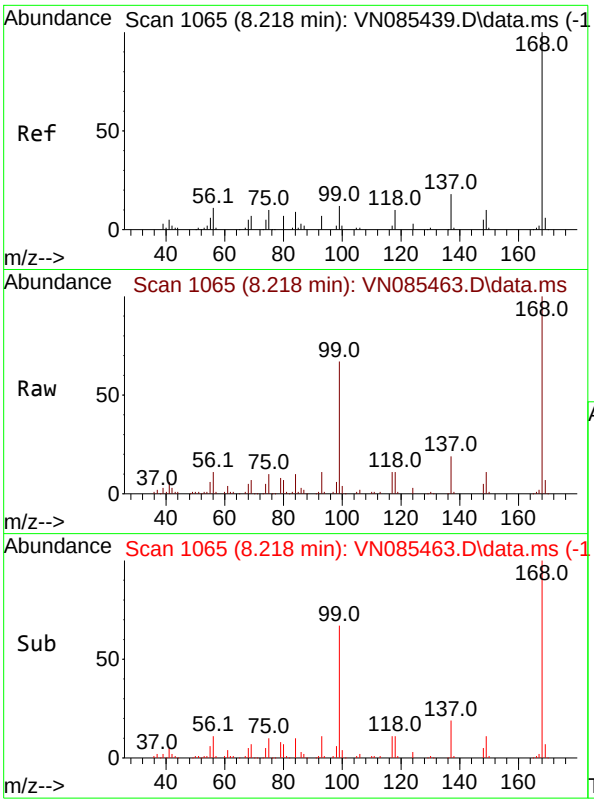
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011525\
Data File : VN085463.D
Acq On : 15 Jan 2025 15:58
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Quant Time: Jan 16 01:00:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration



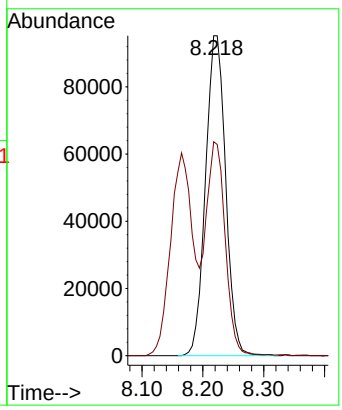


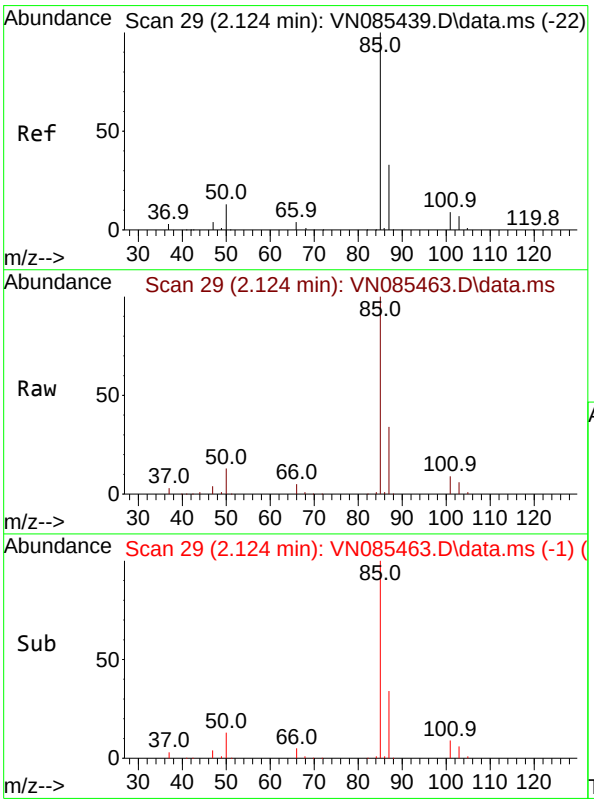
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:168 Resp: 218558

Ion	Ratio	Lower	Upper
168	100		
99	66.6	53.6	80.4

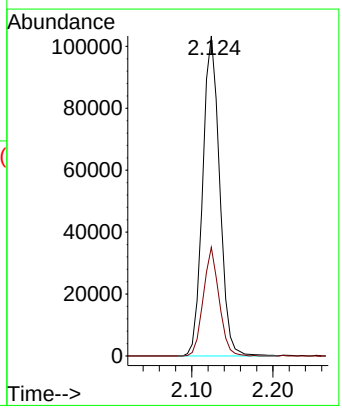


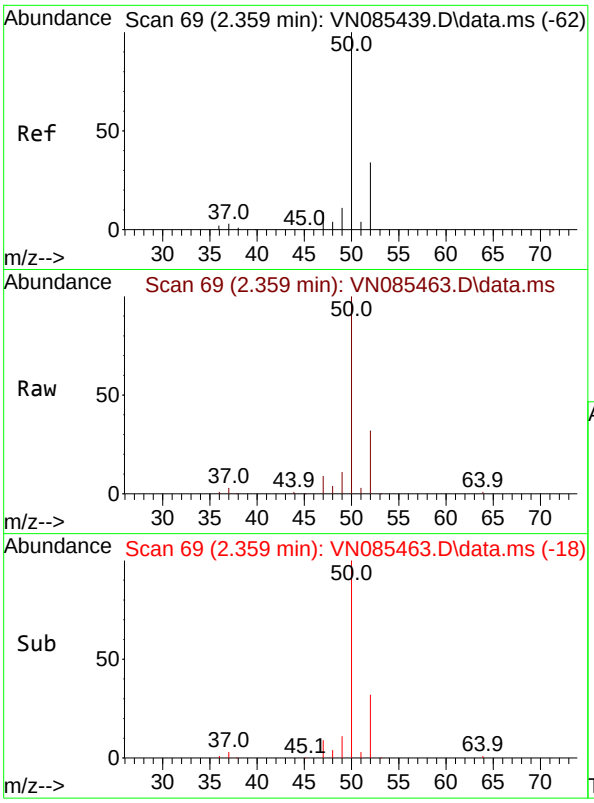


#2
Dichlorodifluoromethane
Concen: 50.545 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 85 Resp: 149573

Ion	Ratio	Lower	Upper
85	100		
87	34.0	16.7	50.1



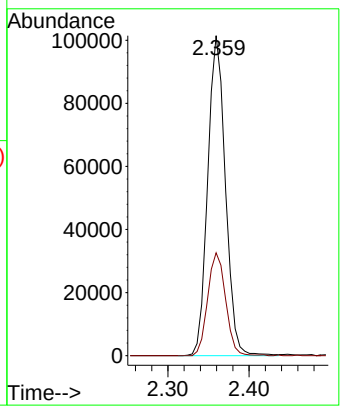


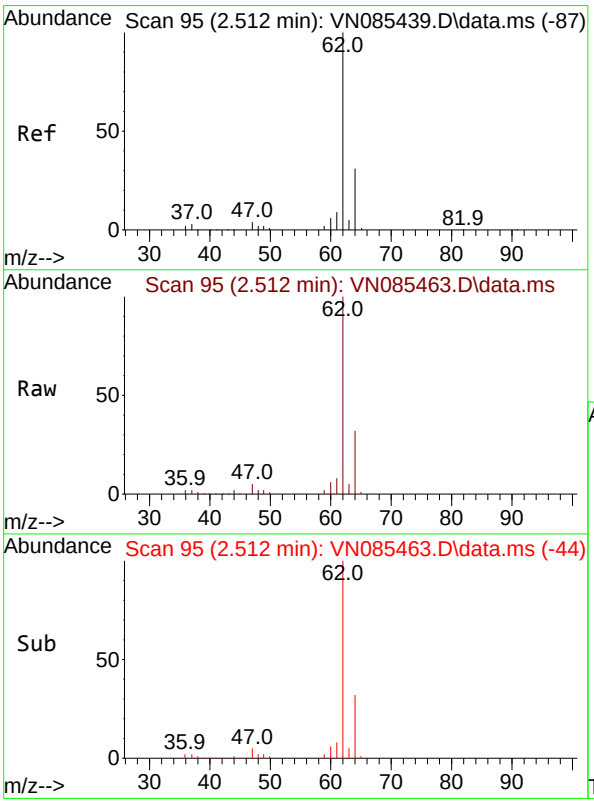
#3
Chloromethane
Concen: 47.865 ug/l
RT: 2.359 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 50 Resp: 153360

Ion	Ratio	Lower	Upper
50	100		
52	32.1	27.0	40.6

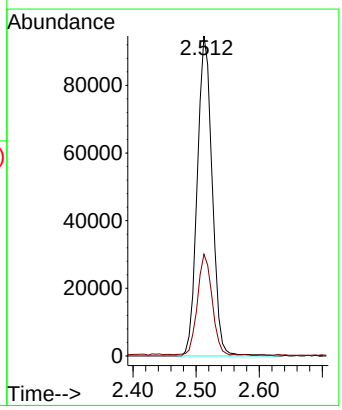


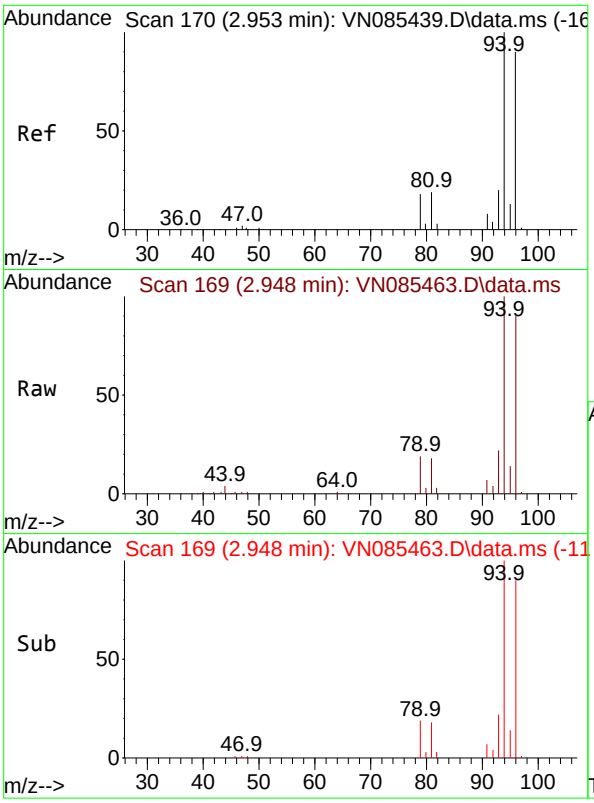


#4
Vinyl Chloride
Concen: 48.017 ug/l
RT: 2.512 min Scan# 95
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 62 Resp: 154638

Ion	Ratio	Lower	Upper
62	100		
64	31.4	24.8	37.2



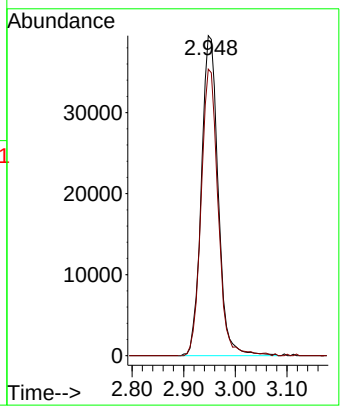


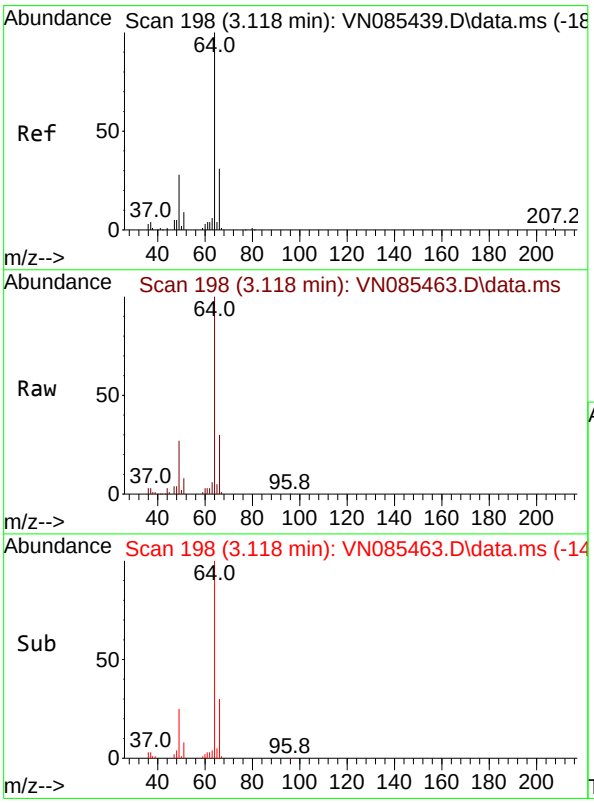
#5
Bromomethane
Concen: 45.833 ug/l
RT: 2.948 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 94 Resp: 89160

Ion	Ratio	Lower	Upper
94	100		
96	89.6	71.8	107.6

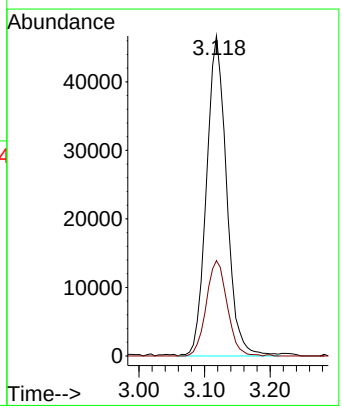


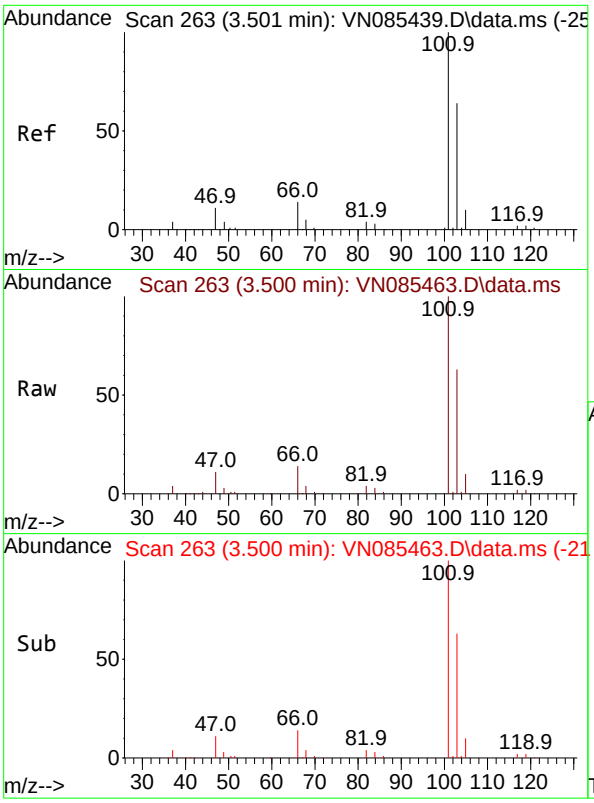


#6
Chloroethane
Concen: 48.718 ug/l
RT: 3.118 min Scan# 198
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 64 Resp: 99471

Ion	Ratio	Lower	Upper
64	100		
66	29.8	24.6	36.8



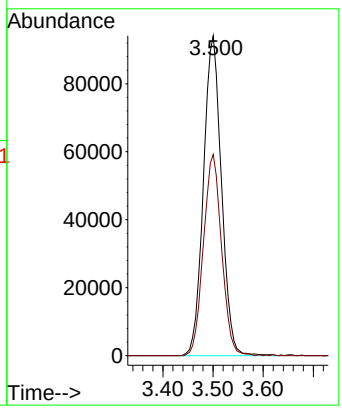


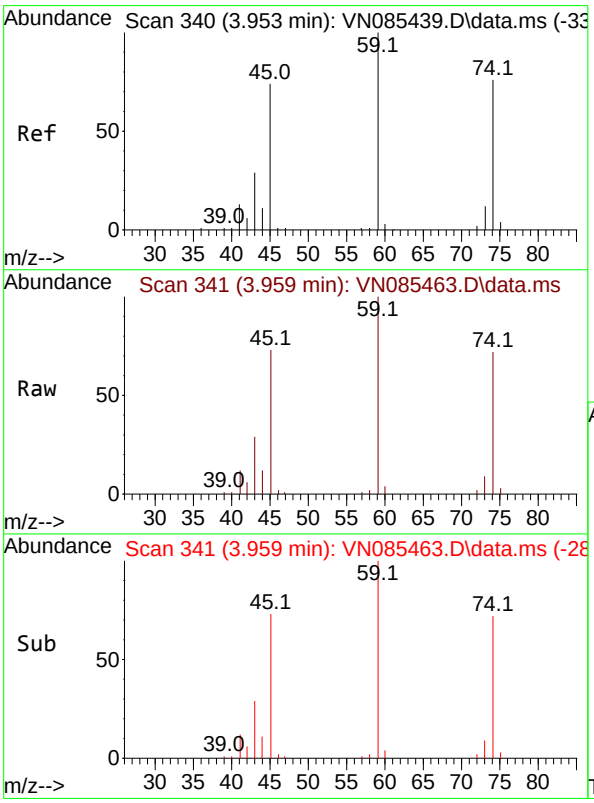
#7
Trichlorofluoromethane
Concen: 50.203 ug/l
RT: 3.500 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:101 Resp: 234589

Ion	Ratio	Lower	Upper
101	100		
103	62.9	51.4	77.2

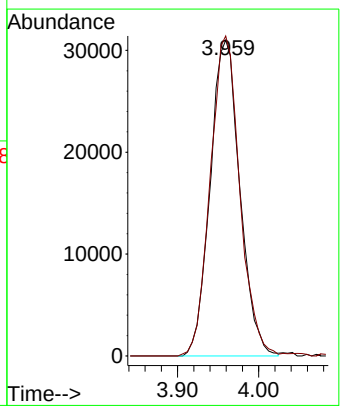


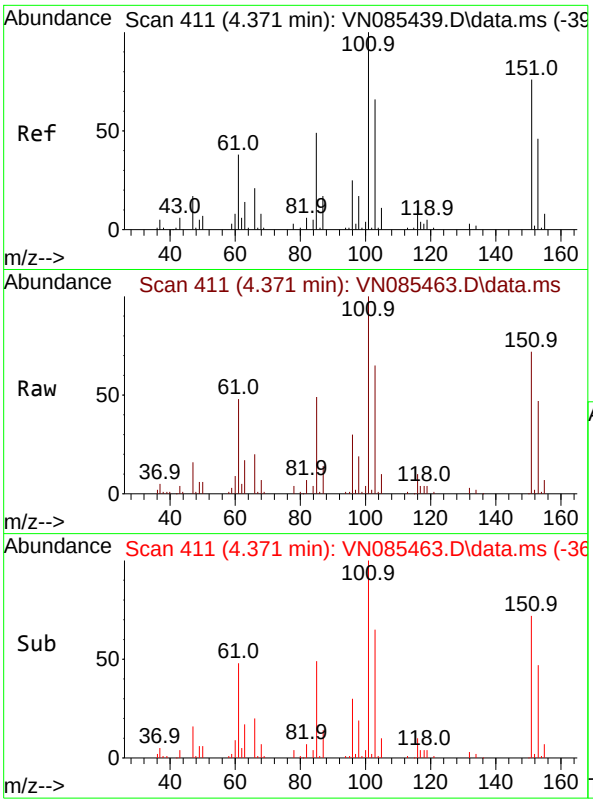


#8
Diethyl Ether
Concen: 48.714 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.006 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 74 Resp: 78639

Ion	Ratio	Lower	Upper
74	100		
45	100.9	49.7	149.1



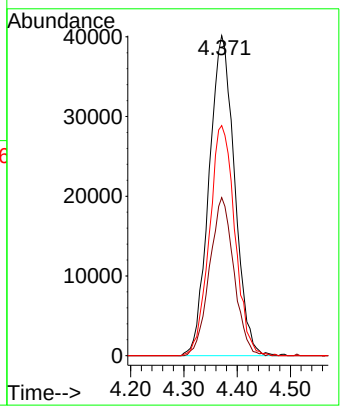


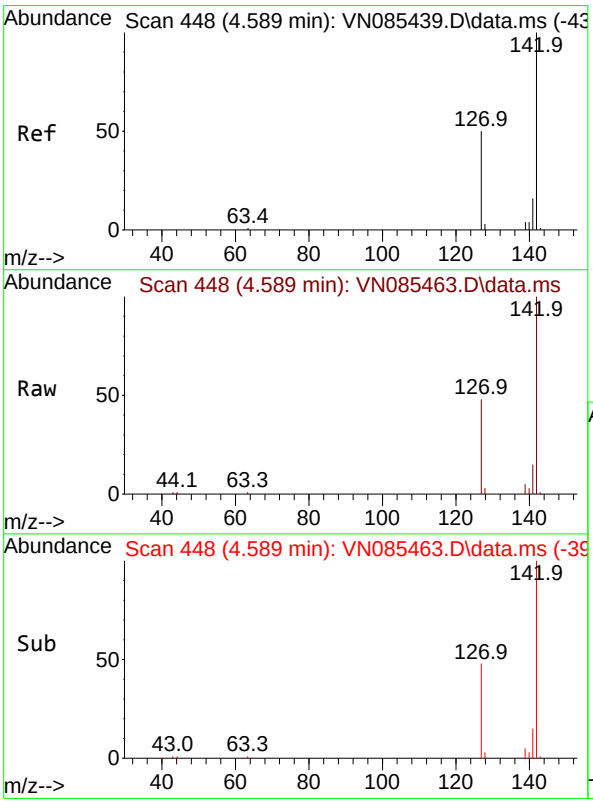
#9
1,1,2-Trichlorotrifluoroethane
Concen: 50.730 ug/l
RT: 4.371 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:101 Resp: 133519

Ion	Ratio	Lower	Upper
101	100		
85	47.1	37.8	56.8
151	71.8	58.8	88.2

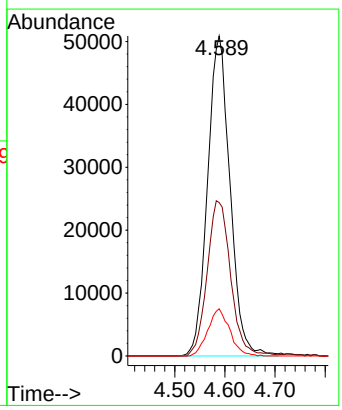


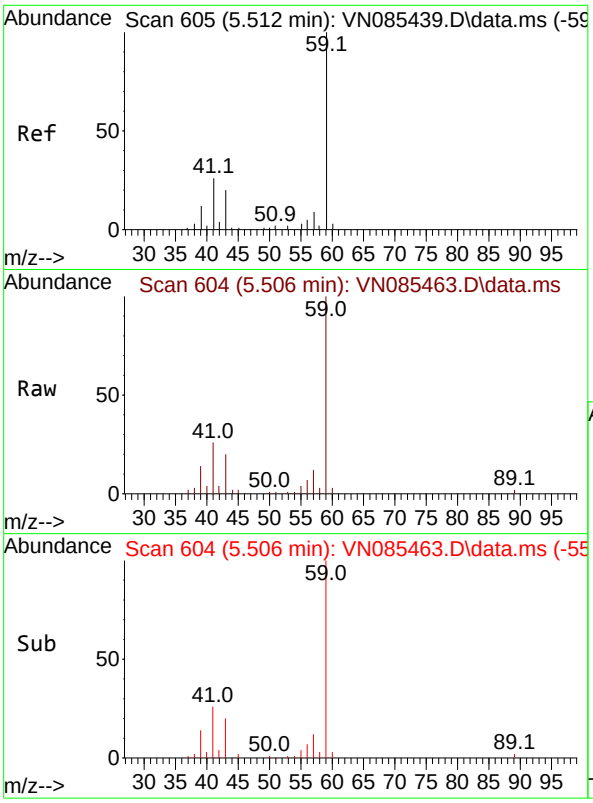


#10
Methyl Iodide
Concen: 52.443 ug/l
RT: 4.589 min Scan# 448
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion:142 Resp: 158063

Ion	Ratio	Lower	Upper
142	100		
127	47.9	40.3	60.5
141	14.8	12.8	19.2



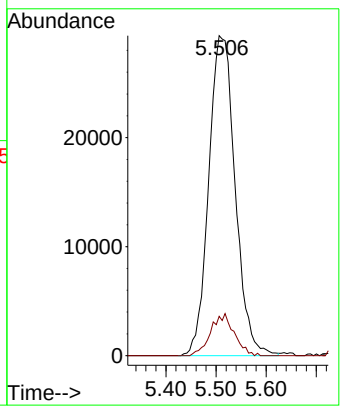


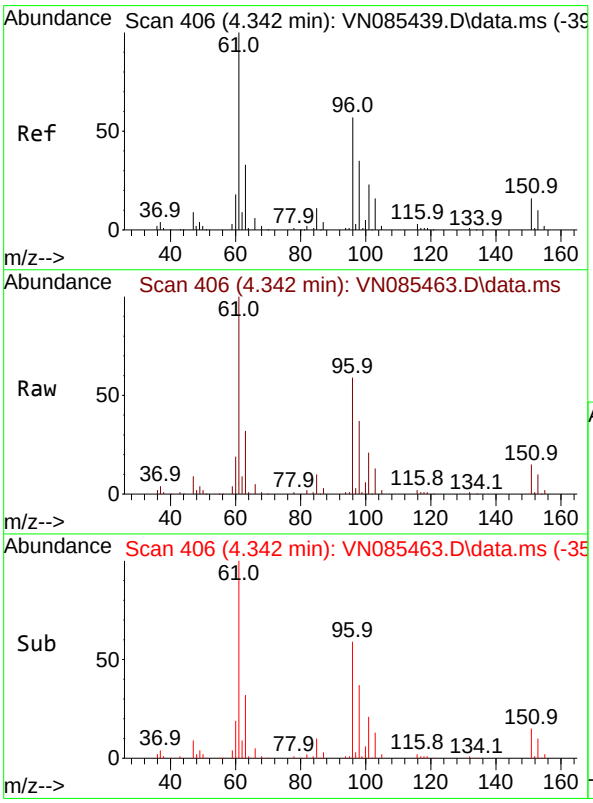
#11
Tert butyl alcohol
Concen: 266.406 ug/l
RT: 5.506 min Scan# 6
Delta R.T. -0.006 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 59 Resp: 107622

Ion	Ratio	Lower	Upper
59	100		
57	11.7	8.6	13.0

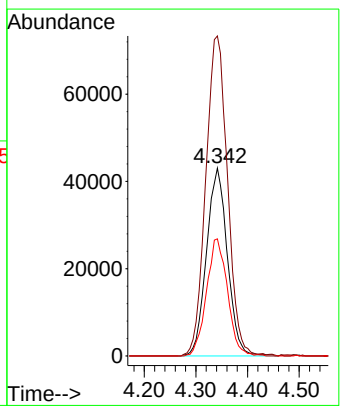


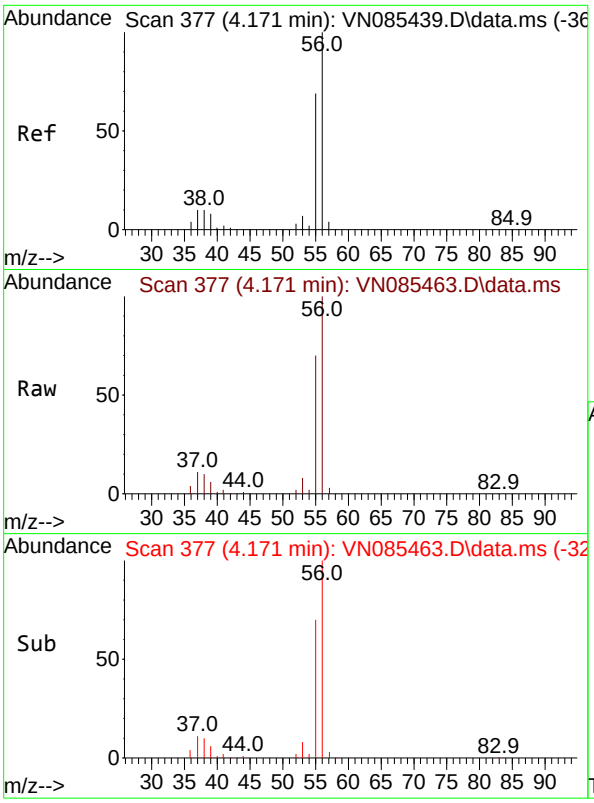


#12
1,1-Dichloroethene
Concen: 51.524 ug/l
RT: 4.342 min Scan# 406
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 96 Resp: 120856

Ion	Ratio	Lower	Upper
96	100		
61	170.3	141.0	211.4
98	62.3	49.0	73.6



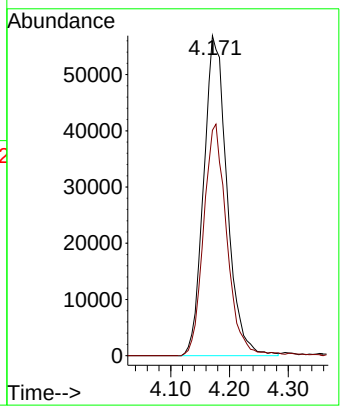


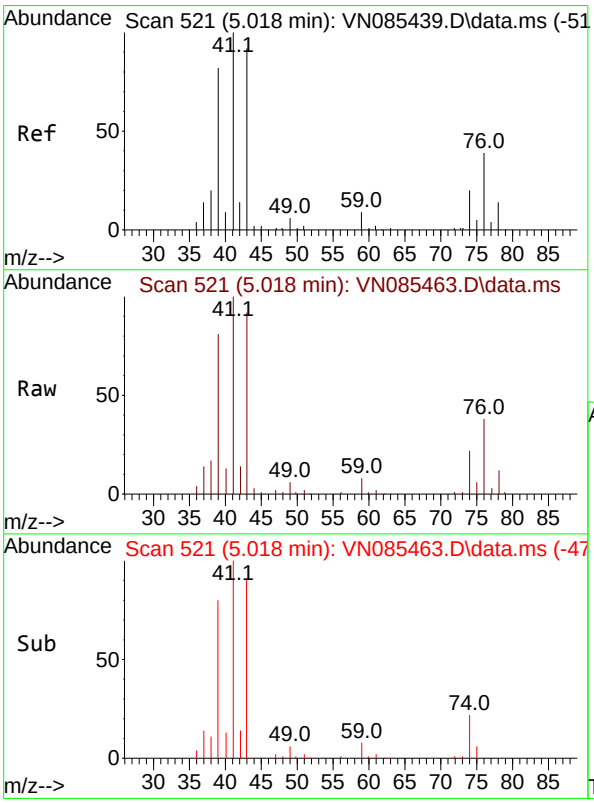
#13
Acrolein
Concen: 284.383 ug/l
RT: 4.171 min Scan# 3
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 56 Resp: 156827

Ion	Ratio	Lower	Upper
56	100		
55	71.8	56.3	84.5

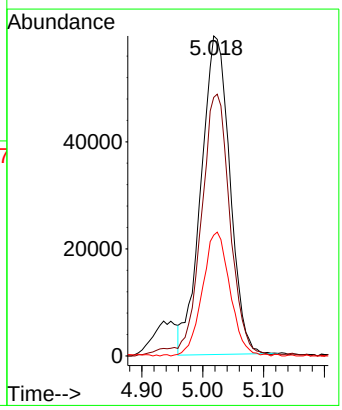


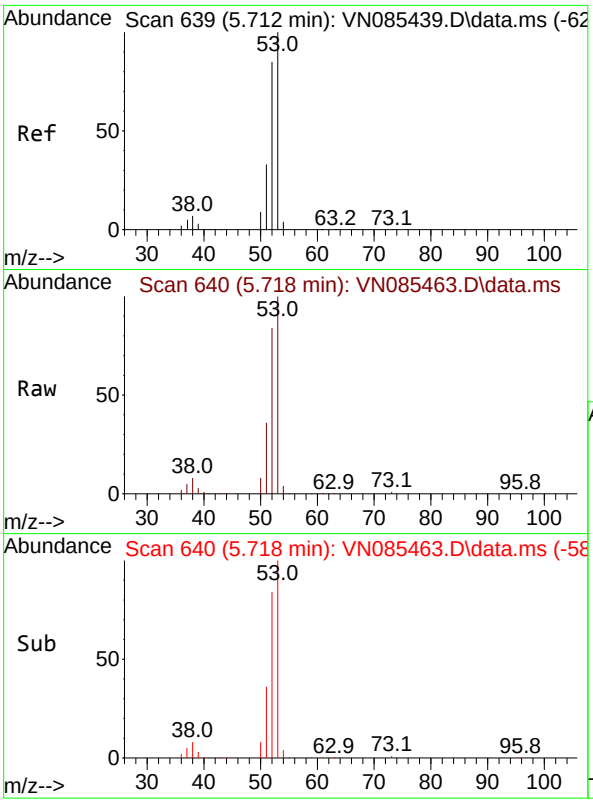


#14
Allyl chloride
Concen: 51.384 ug/l
RT: 5.018 min Scan# 521
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 41 Resp: 195577

Ion	Ratio	Lower	Upper
41	100		
39	82.9	64.4	96.6
76	37.2	30.5	45.7



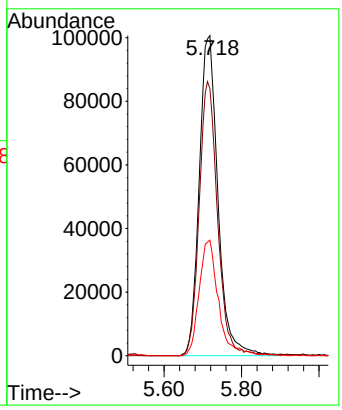


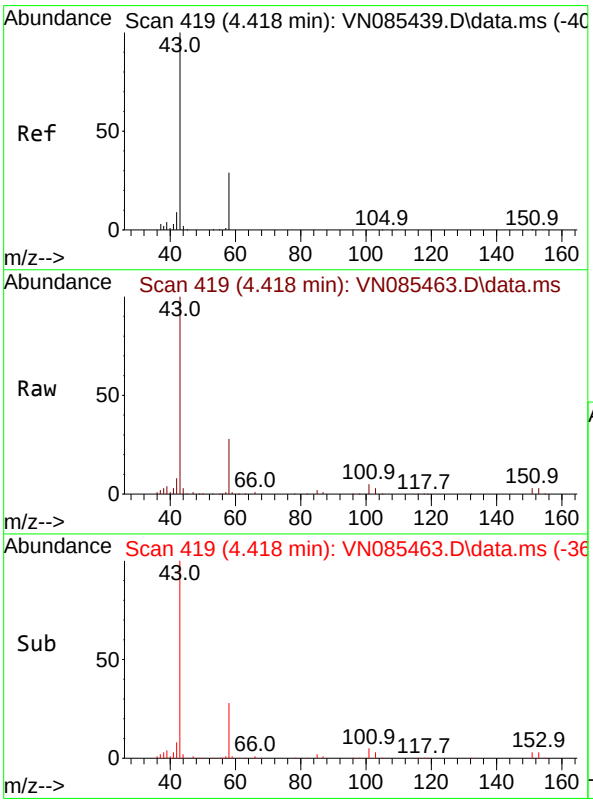
#15
Acrylonitrile
Concen: 262.738 ug/l
RT: 5.718 min Scan# 64
Delta R.T. 0.006 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 53 Resp: 337135

Ion	Ratio	Lower	Upper
53	100		
52	84.0	65.5	98.3
51	37.1	29.8	44.8

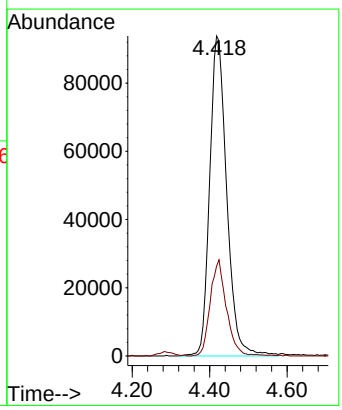


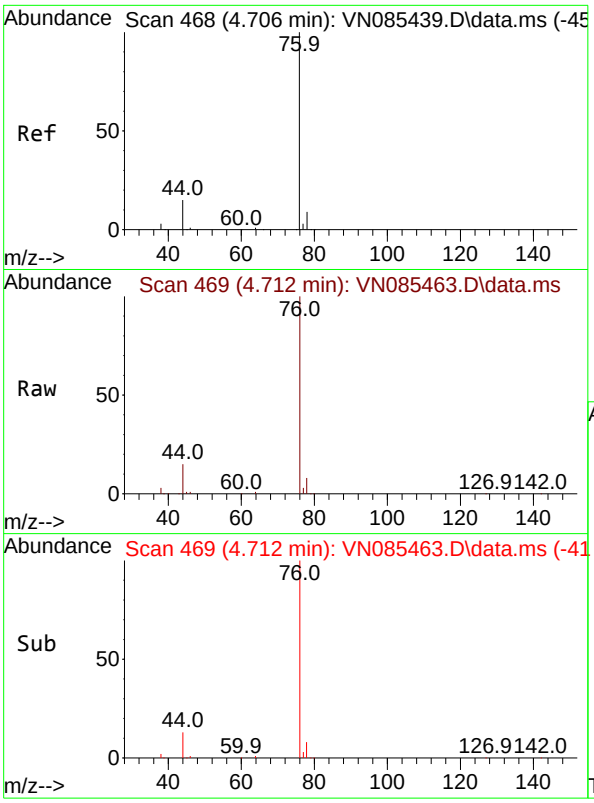


#16
Acetone
Concen: 251.190 ug/l
RT: 4.418 min Scan# 419
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 43 Resp: 286337

Ion	Ratio	Lower	Upper
43	100		
58	27.9	23.8	35.6



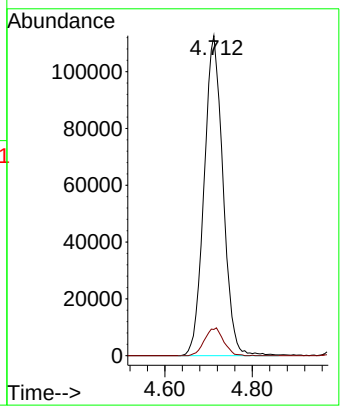


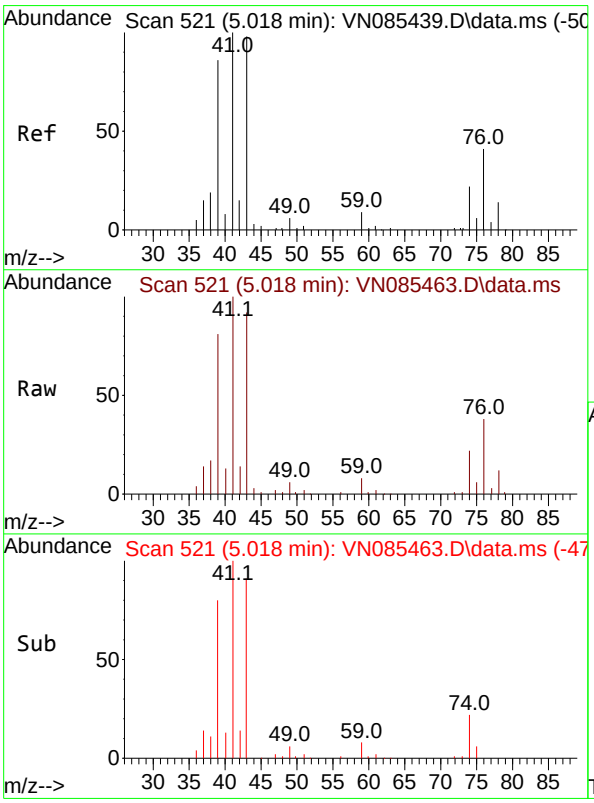
#17
Carbon Disulfide
Concen: 46.862 ug/l
RT: 4.712 min Scan# 4
Delta R.T. 0.006 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 76 Resp: 338441

Ion	Ratio	Lower	Upper
76	100		
78	8.2	6.9	10.3

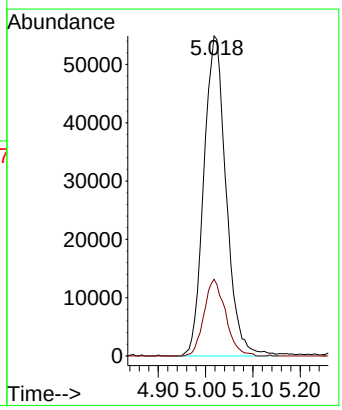


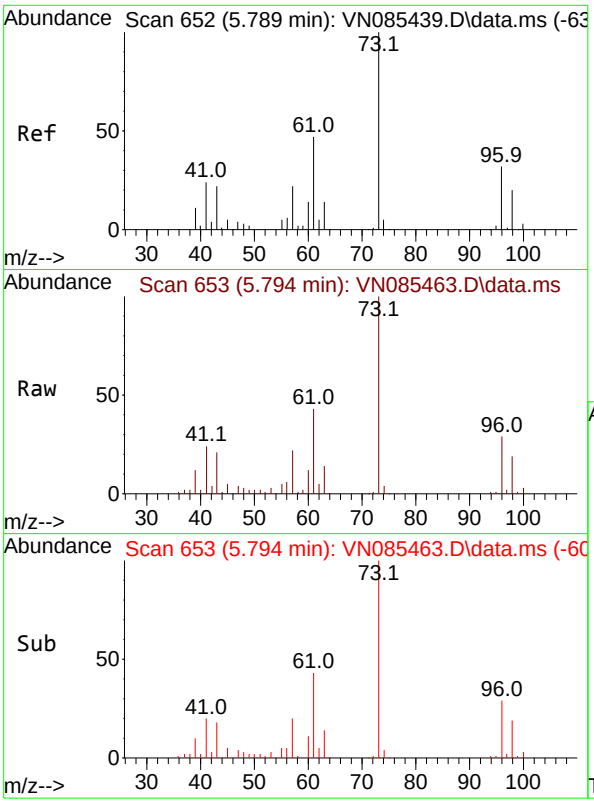


#18
Methyl Acetate
Concen: 51.803 ug/l
RT: 5.018 min Scan# 521
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 43 Resp: 179563

Ion	Ratio	Lower	Upper
43	100		
74	23.2	18.6	28.0



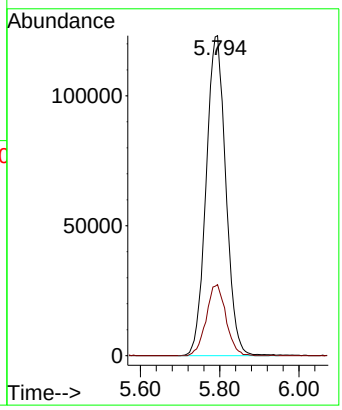


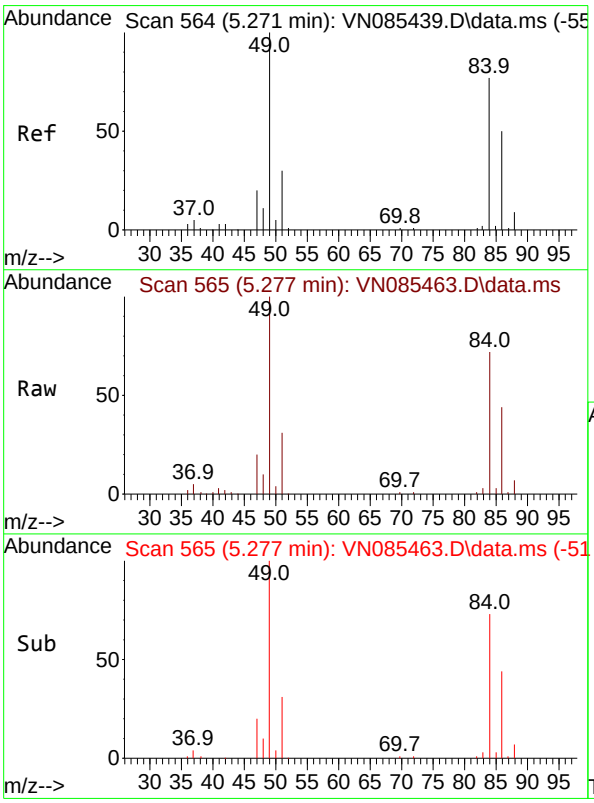
#19
Methyl tert-butyl Ether
Concen: 55.672 ug/l
RT: 5.794 min Scan# 6
Delta R.T. 0.006 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 73 Resp: 424024

Ion	Ratio	Lower	Upper
73	100		
57	22.2	17.8	26.8

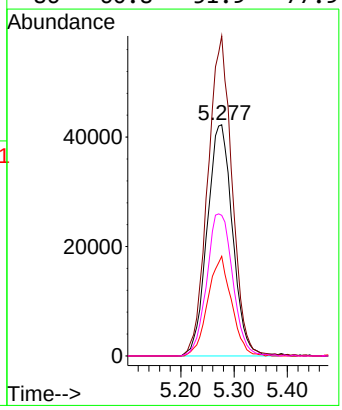


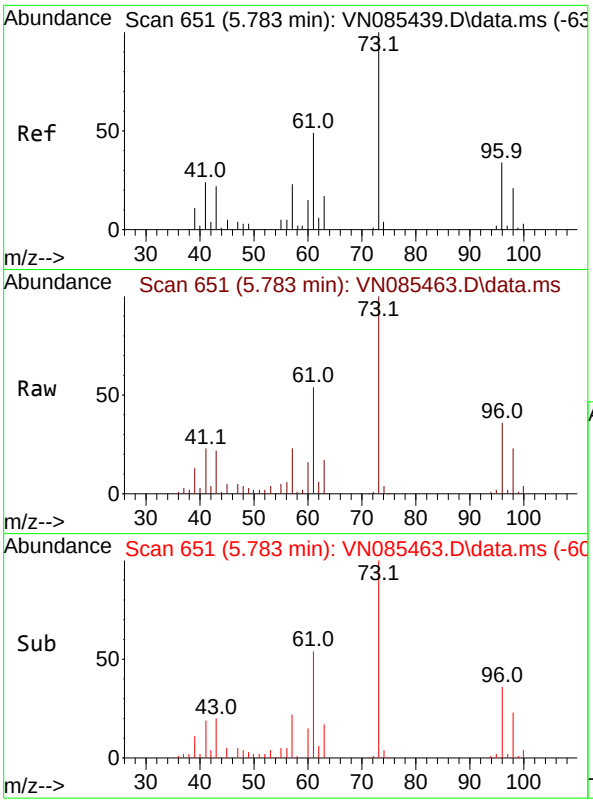


#20
Methylene Chloride
Concen: 49.455 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.006 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 84 Resp: 139560

Ion	Ratio	Lower	Upper
84	100		
49	138.4	104.1	156.1
51	43.1	31.0	46.4
86	60.8	51.9	77.9



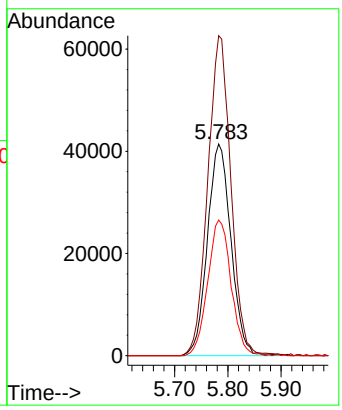


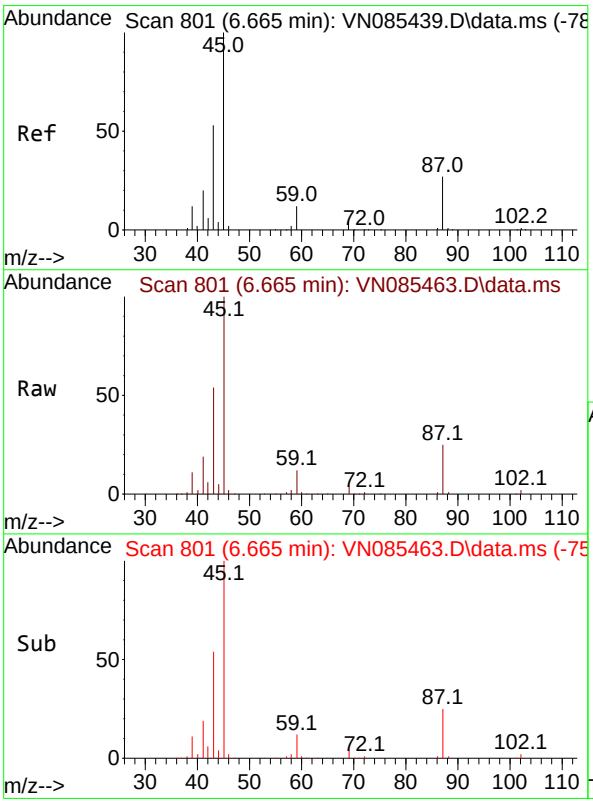
#21
trans-1,2-Dichloroethene
Concen: 50.805 ug/l
RT: 5.783 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 96 Resp: 127358

Ion	Ratio	Lower	Upper
96	100		
61	151.2	115.7	173.5
98	64.1	49.8	74.8

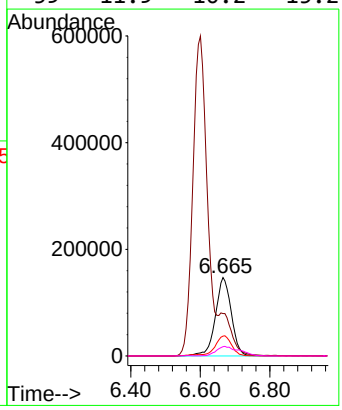


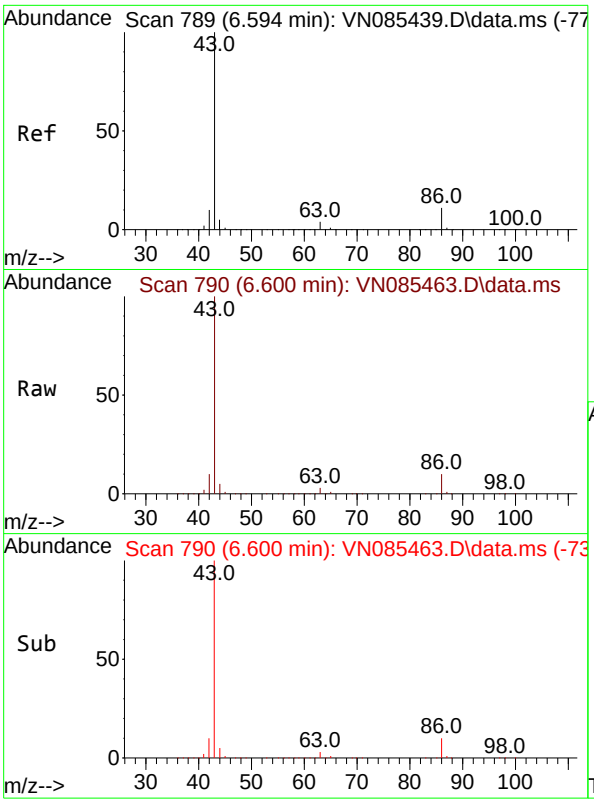


#22
Diisopropyl ether
Concen: 55.286 ug/l
RT: 6.665 min Scan# 801
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 45 Resp: 467061

Ion	Ratio	Lower	Upper
45	100		
43	53.5	45.0	67.6
87	25.2	21.8	32.8
59	11.9	10.2	15.2



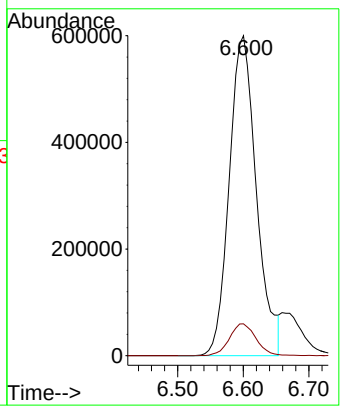


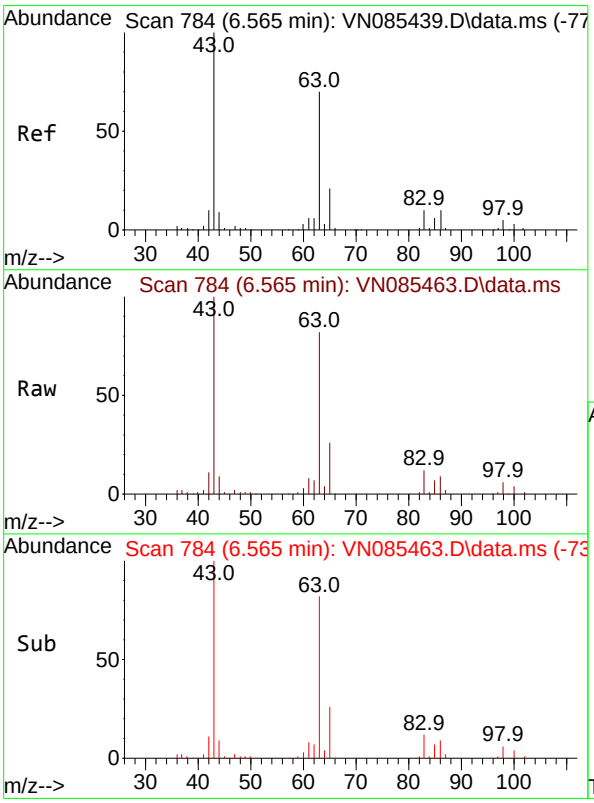
#23
Vinyl Acetate
Concen: 292.883 ug/l
RT: 6.600 min Scan# 7
Delta R.T. 0.006 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 1731604

Ion	Ratio	Lower	Upper
43	100		
86	9.9	8.4	12.6

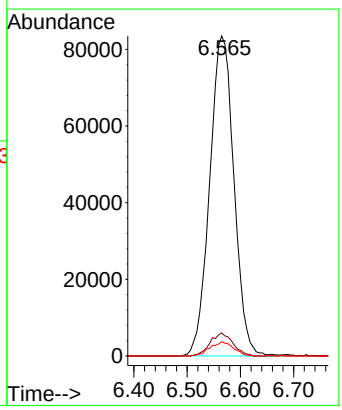


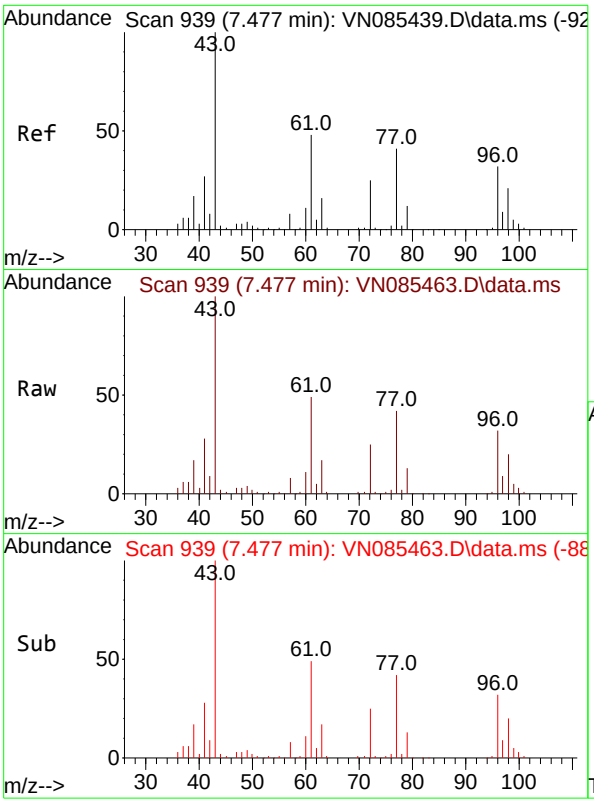


#24
1,1-Dichloroethane
Concen: 51.287 ug/l
RT: 6.565 min Scan# 784
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 63 Resp: 264195

Ion	Ratio	Lower	Upper
63	100		
98	7.2	3.3	9.8
100	4.5	2.0	6.0



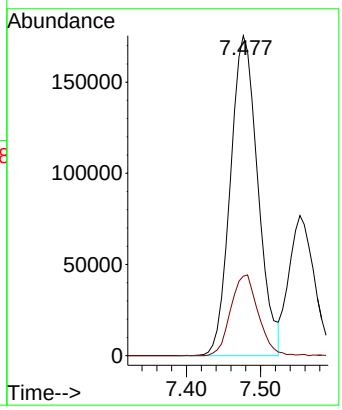


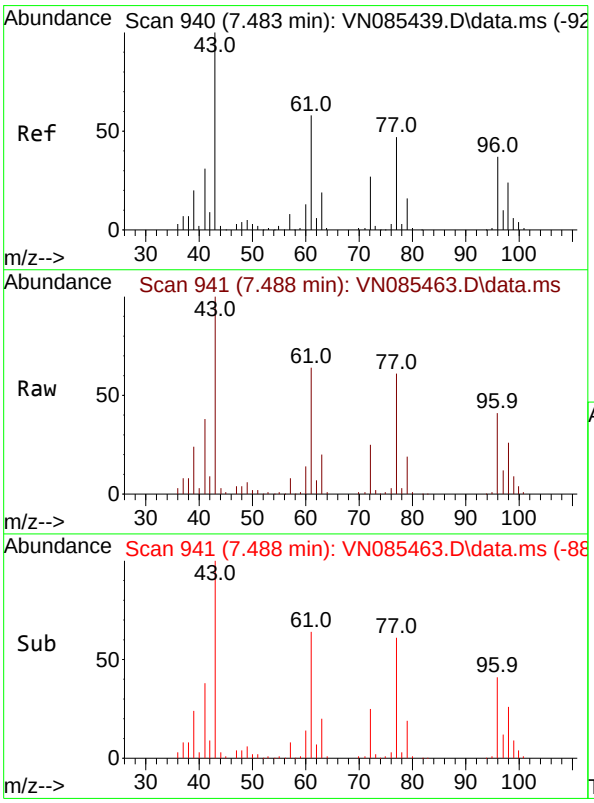
#25
2-Butanone
Concen: 269.467 ug/l
RT: 7.477 min Scan# 9
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 452029

Ion	Ratio	Lower	Upper
43	100		
72	24.8	20.2	30.4

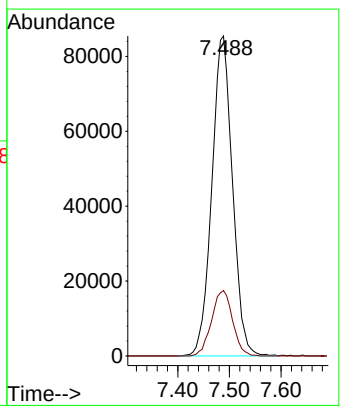


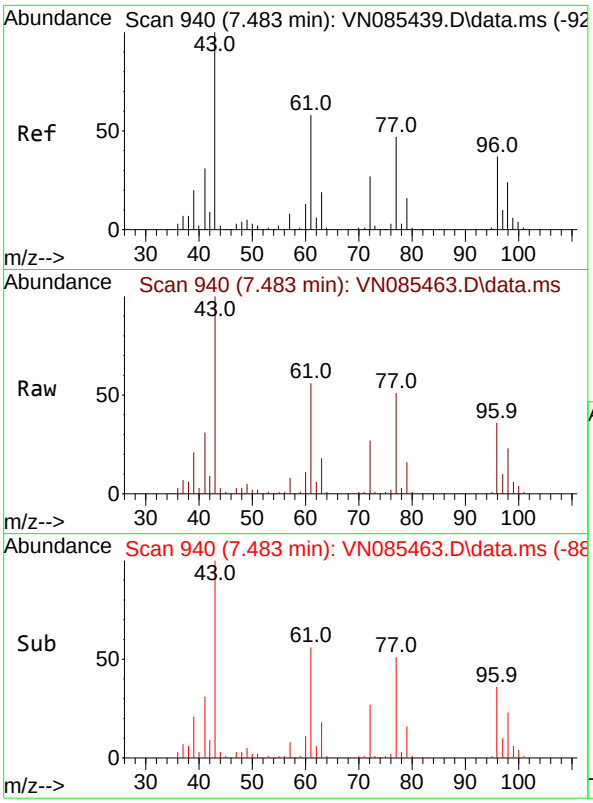


#26
2,2-Dichloropropane
Concen: 56.857 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 77 Resp: 236796

Ion	Ratio	Lower	Upper
77	100		
97	20.8	10.7	32.1



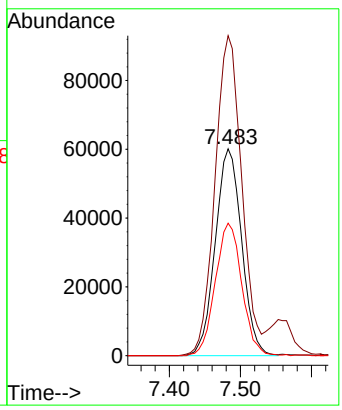


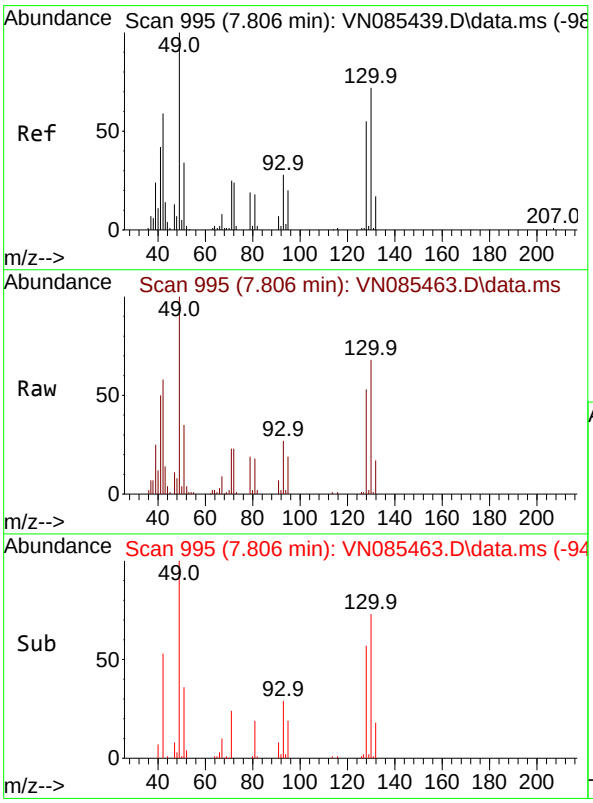
#27
cis-1,2-Dichloroethene
Concen: 52.557 ug/l
RT: 7.483 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 96 Resp: 155179

Ion	Ratio	Lower	Upper
96	100		
61	156.3	0.0	311.8
98	64.4	0.0	126.0

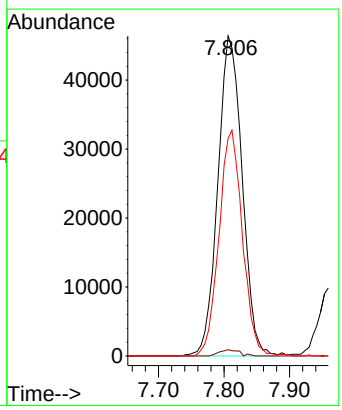


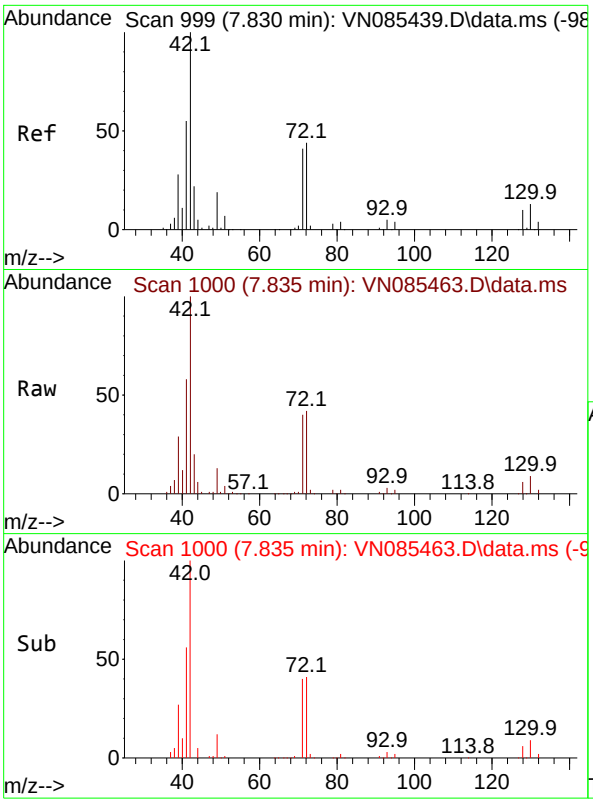


#28
Bromochloromethane
Concen: 49.837 ug/l
RT: 7.806 min Scan# 995
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 49 Resp: 119440

Ion	Ratio	Lower	Upper
49	100		
129	1.6	0.0	4.4
130	68.0	55.0	82.4



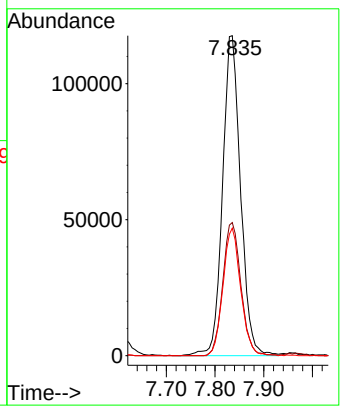


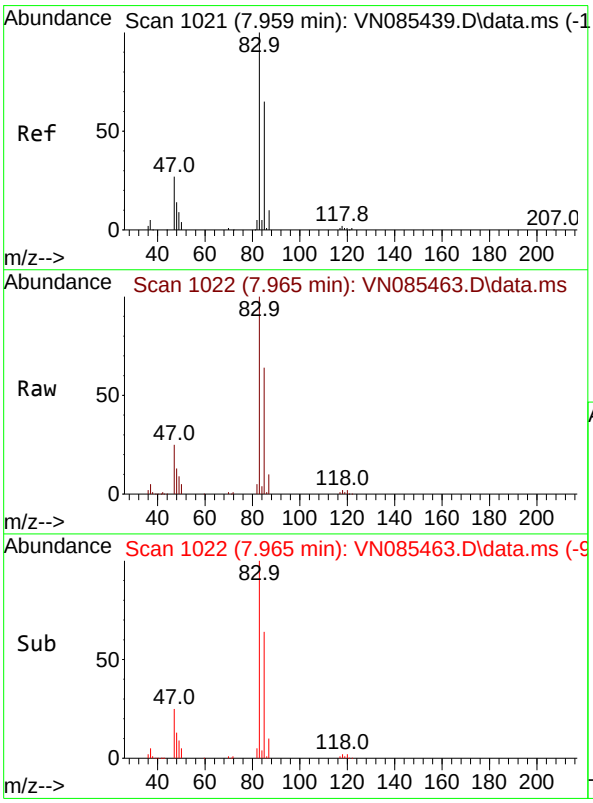
#29
Tetrahydrofuran
Concen: 284.562 ug/l
RT: 7.835 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 42 Resp: 302642

Ion	Ratio	Lower	Upper
42	100		
72	42.0	34.2	51.2
71	39.2	32.5	48.7

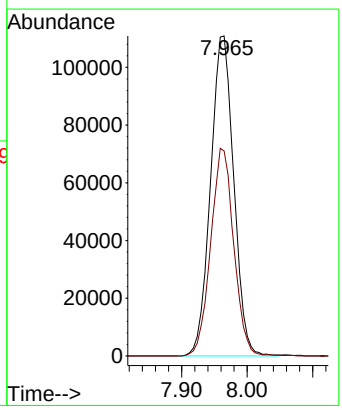


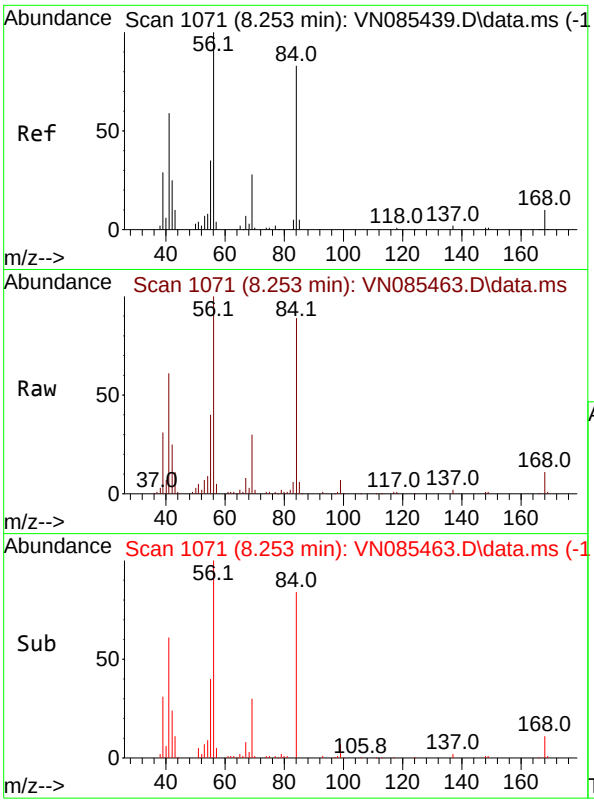


#30
Chloroform
Concen: 51.054 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. 0.006 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 83 Resp: 271813

Ion	Ratio	Lower	Upper
83	100		
85	64.1	51.8	77.6



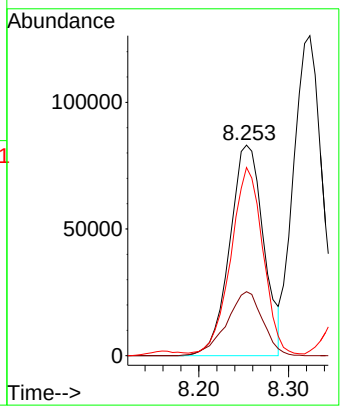


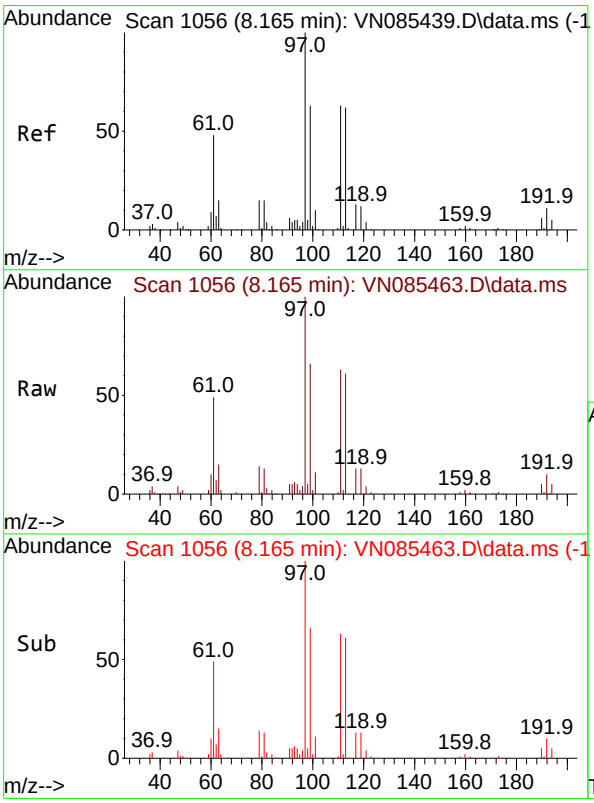
#31
Cyclohexane
Concen: 48.757 ug/l
RT: 8.253 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 56 Resp: 218304

Ion	Ratio	Lower	Upper
56	100		
69	30.4	22.2	33.4
84	87.7	66.4	99.6

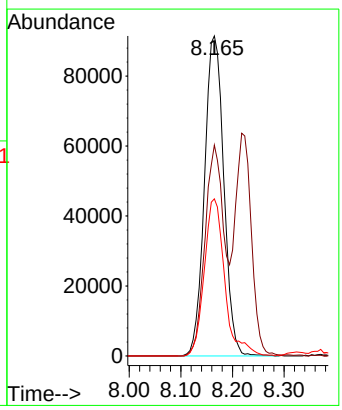


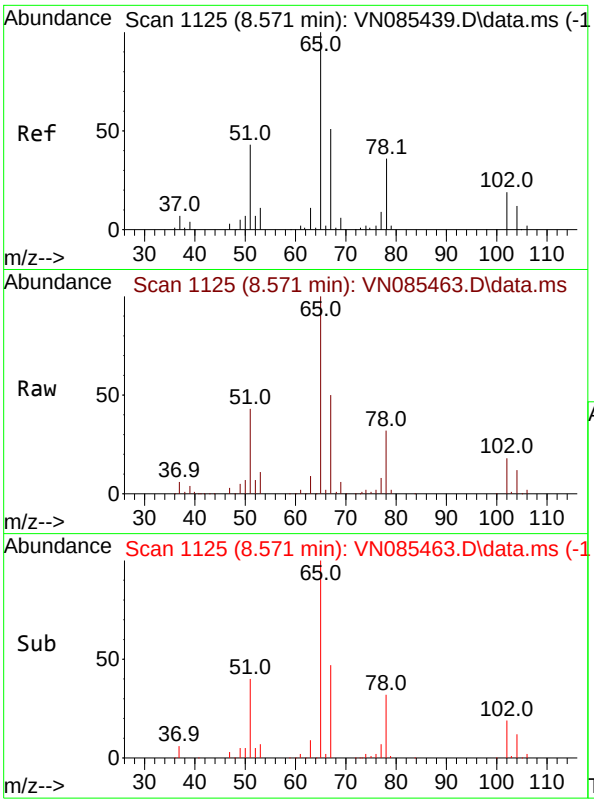


#32
1,1,1-Trichloroethane
Concen: 50.757 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 97 Resp: 237039

Ion	Ratio	Lower	Upper
97	100		
99	65.5	49.8	74.6
61	52.1	41.4	62.2



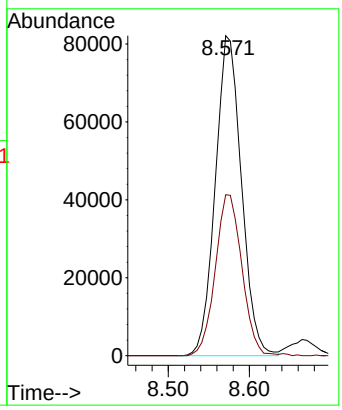


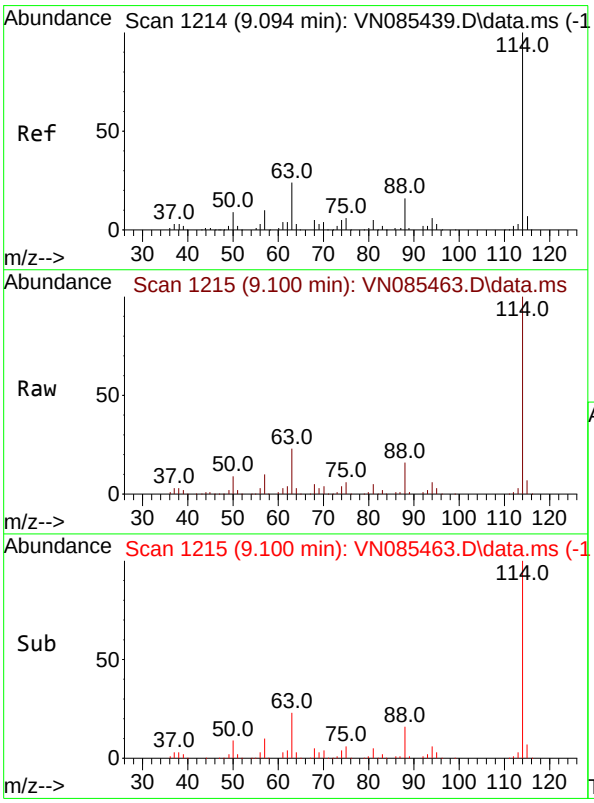
#33
1,2-Dichloroethane-d4
Concen: 52.114 ug/l
RT: 8.571 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 65 Resp: 183857

Ion	Ratio	Lower	Upper
65	100		
67	51.2	0.0	101.6

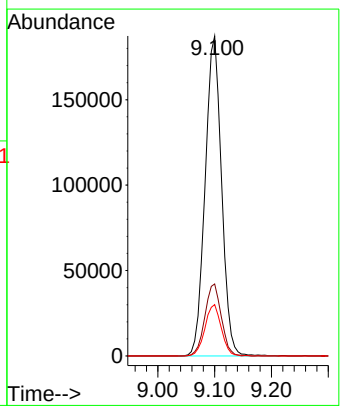


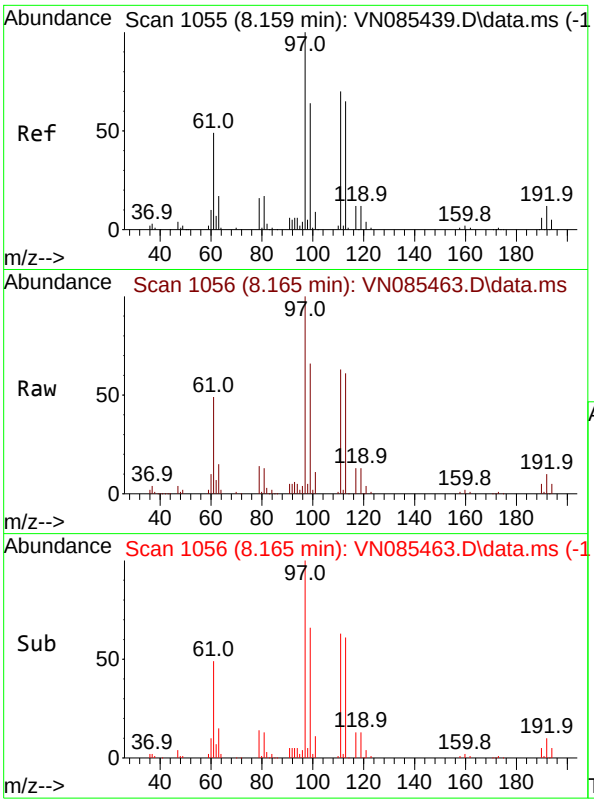


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.006 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion:114 Resp: 374640

Ion	Ratio	Lower	Upper
114	100		
63	22.5	0.0	47.6
88	16.1	0.0	32.6



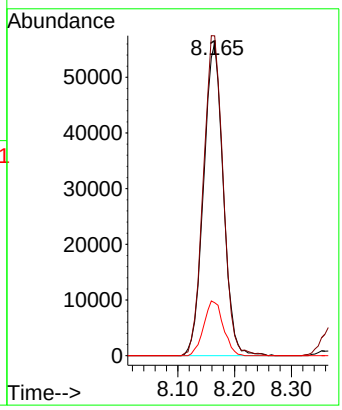


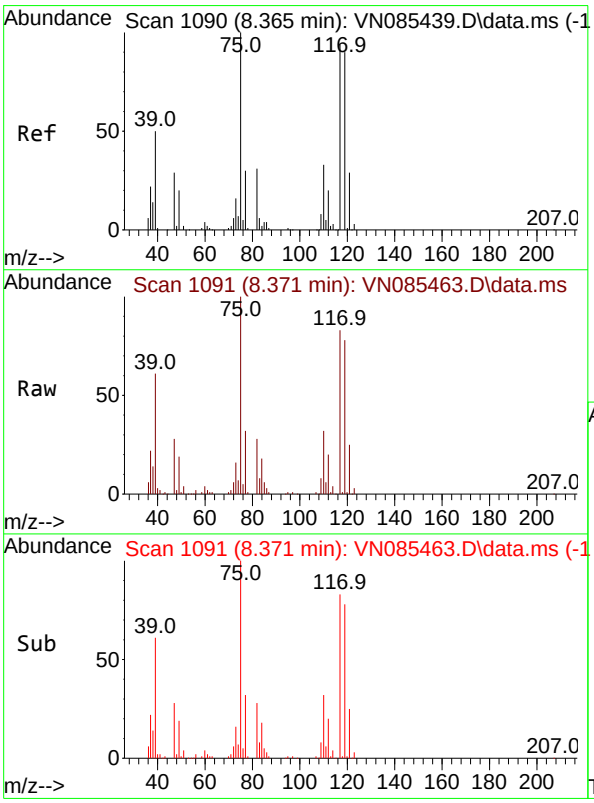
#35
Dibromofluoromethane
Concen: 51.677 ug/l
RT: 8.165 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:113 Resp: 134312

Ion	Ratio	Lower	Upper
113	100		
111	103.3	82.7	124.1
192	17.4	14.3	21.5

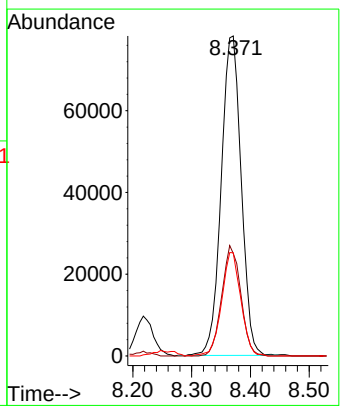


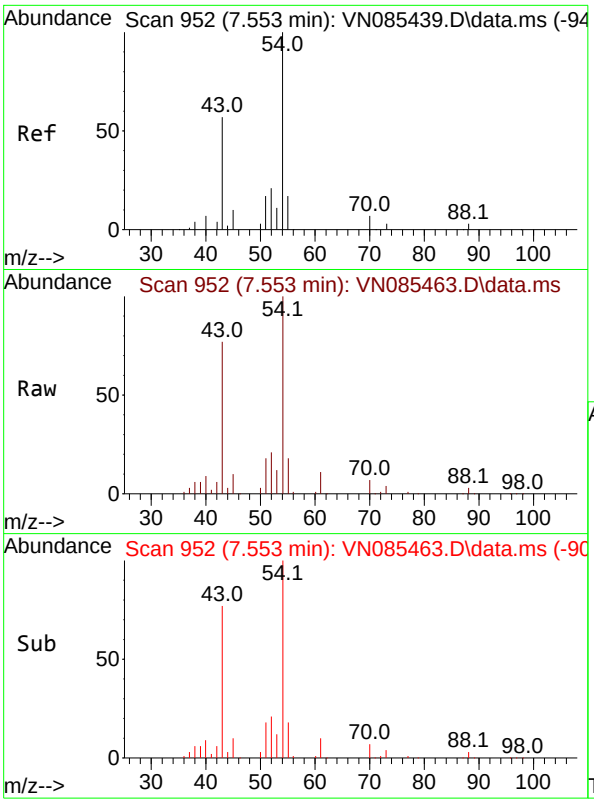


#36
1,1-Dichloropropene
Concen: 50.562 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. 0.006 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 75 Resp: 184438

Ion	Ratio	Lower	Upper
75	100		
110	32.8	16.5	49.5
77	31.2	24.4	36.6



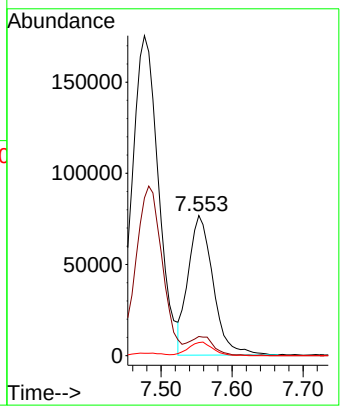


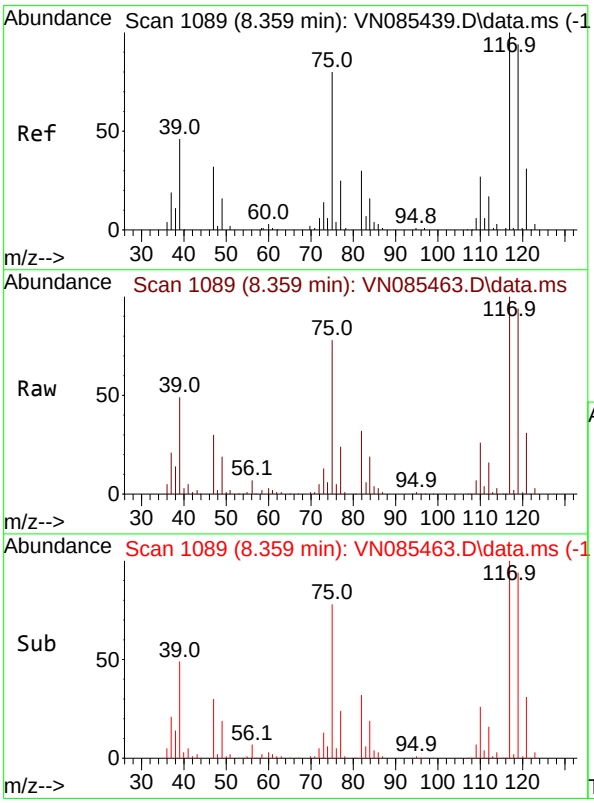
#37
Ethyl Acetate
Concen: 50.810 ug/l
RT: 7.553 min Scan# 9
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 187078

Ion	Ratio	Lower	Upper
43	100		
61	12.1	10.9	16.3
70	9.6	7.5	11.3

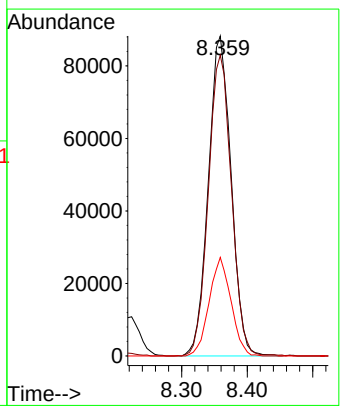


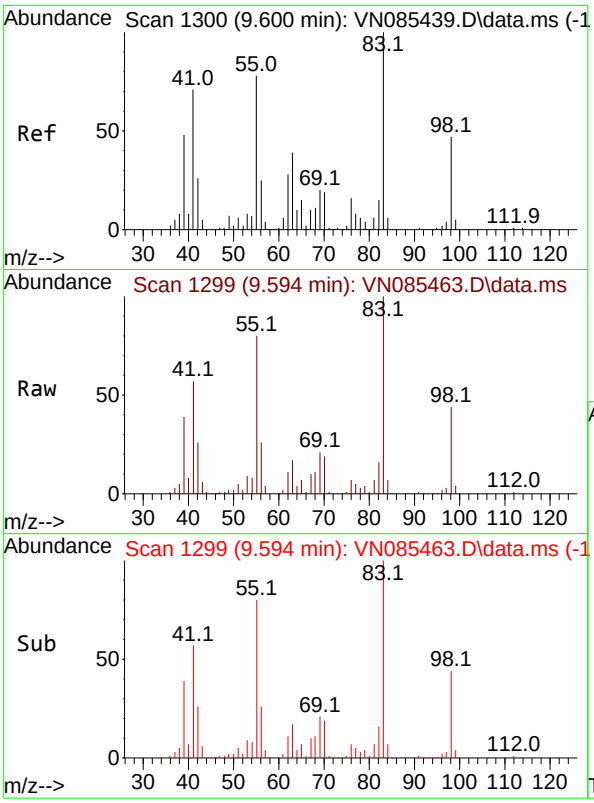


#38
Carbon Tetrachloride
Concen: 50.991 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion:117 Resp: 212942

Ion	Ratio	Lower	Upper
117	100		
119	93.8	75.4	113.2
121	30.8	24.6	37.0



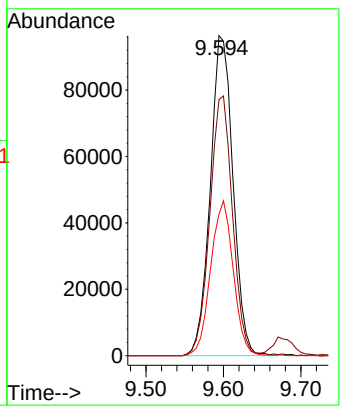


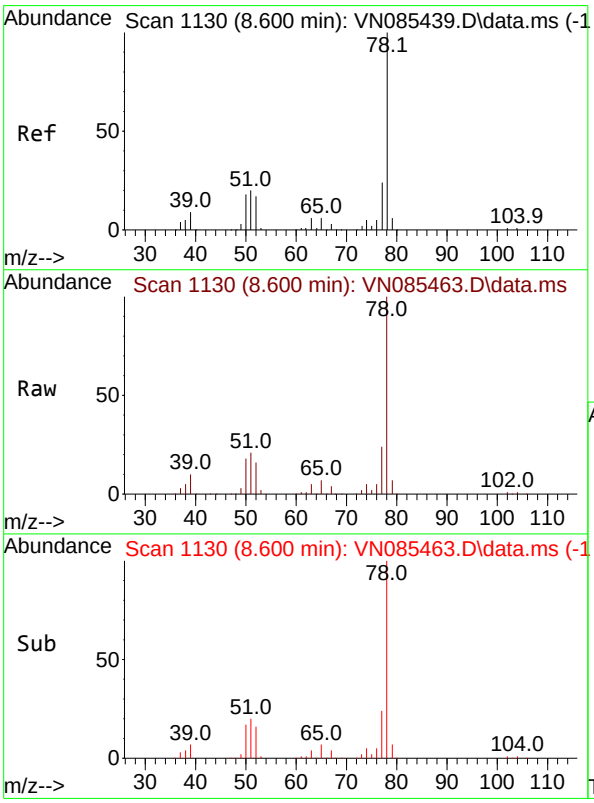
#39
Methylcyclohexane
Concen: 57.436 ug/l
RT: 9.594 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 196879

Ion	Ratio	Lower	Upper
83	100		
55	80.1	62.6	94.0
98	44.2	37.7	56.5

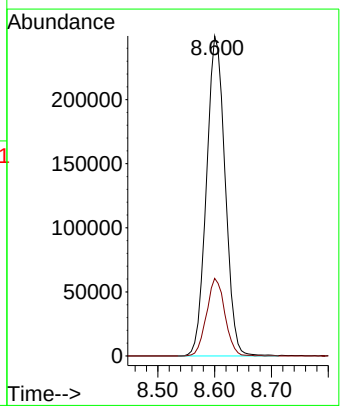


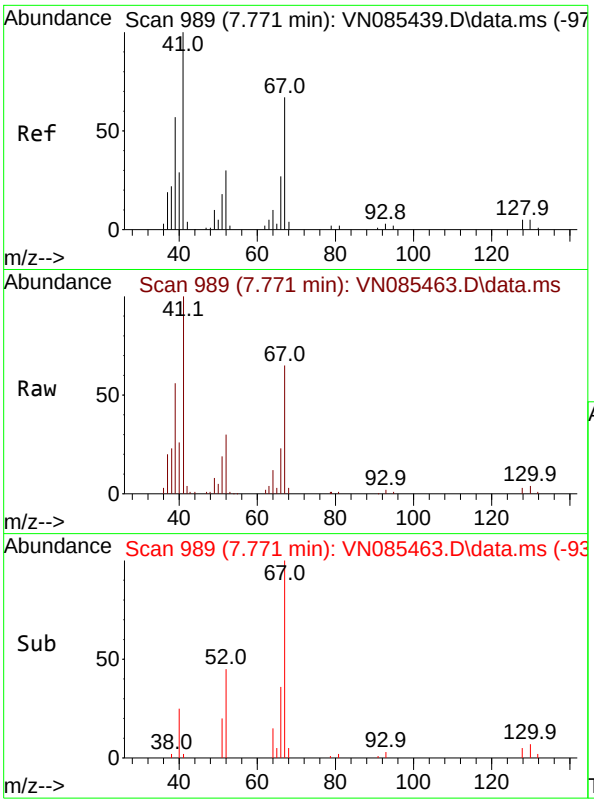


#40
Benzene
Concen: 51.821 ug/l
RT: 8.600 min Scan# 1130
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 78 Resp: 567975

Ion	Ratio	Lower	Upper
78	100		
77	24.3	19.0	28.6



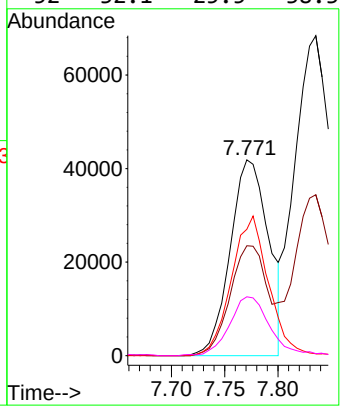


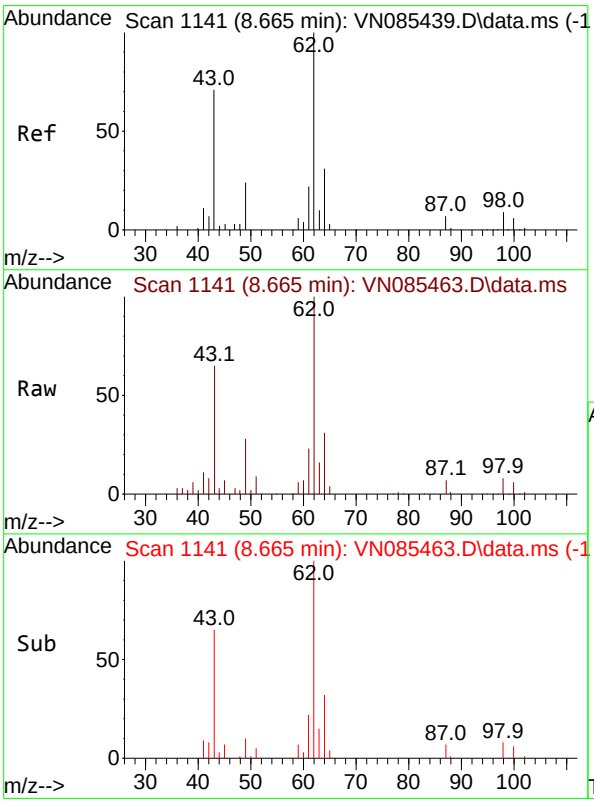
#41
Methacrylonitrile
Concen: 54.981 ug/l
RT: 7.771 min Scan# 9
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 41 Resp: 105319

Ion	Ratio	Lower	Upper
41	100		
39	56.3	46.0	69.0
67	68.8	57.4	86.2
52	32.1	25.5	38.3

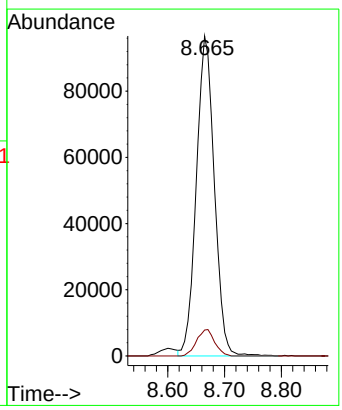


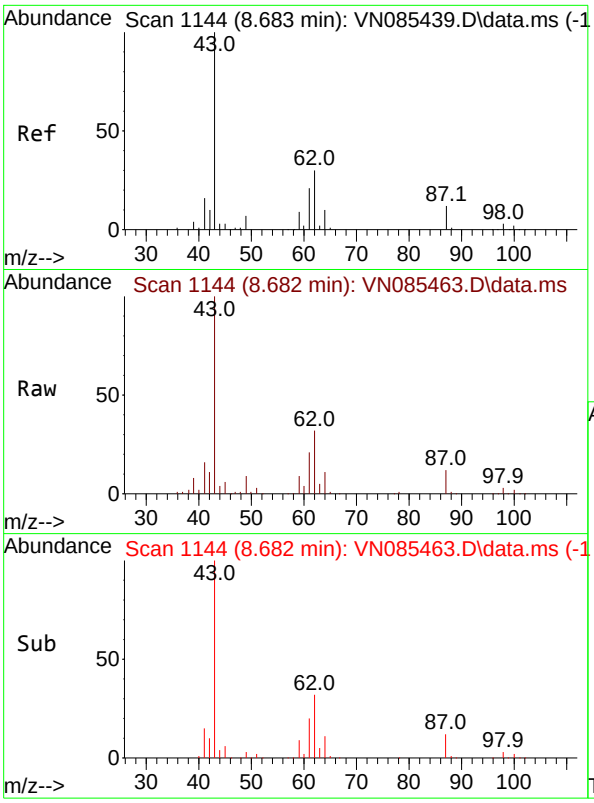


#42
1,2-Dichloroethane
Concen: 51.629 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 62 Resp: 213125

Ion	Ratio	Lower	Upper
62	100		
98	8.2	0.0	17.0



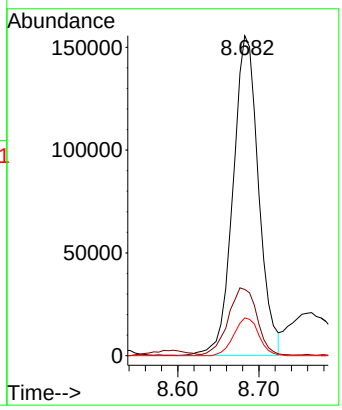


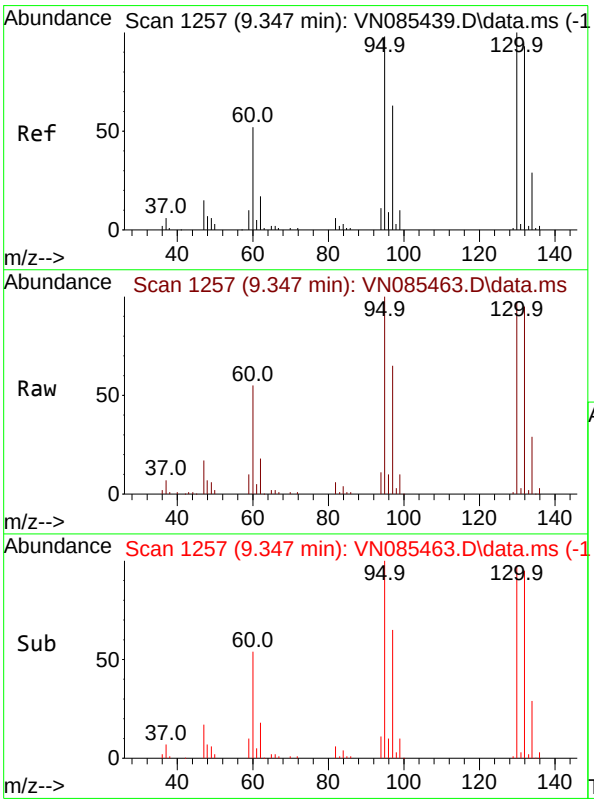
#43
Isopropyl Acetate
Concen: 57.599 ug/l
RT: 8.682 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 339818

Ion	Ratio	Lower	Upper
43	100		
61	23.7	20.7	31.1
87	11.5	9.8	14.8

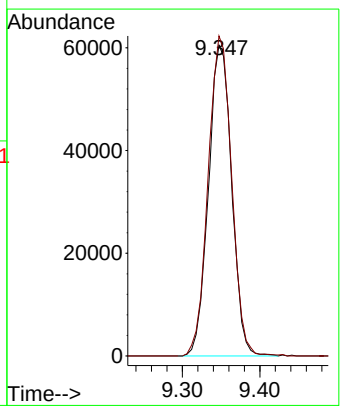


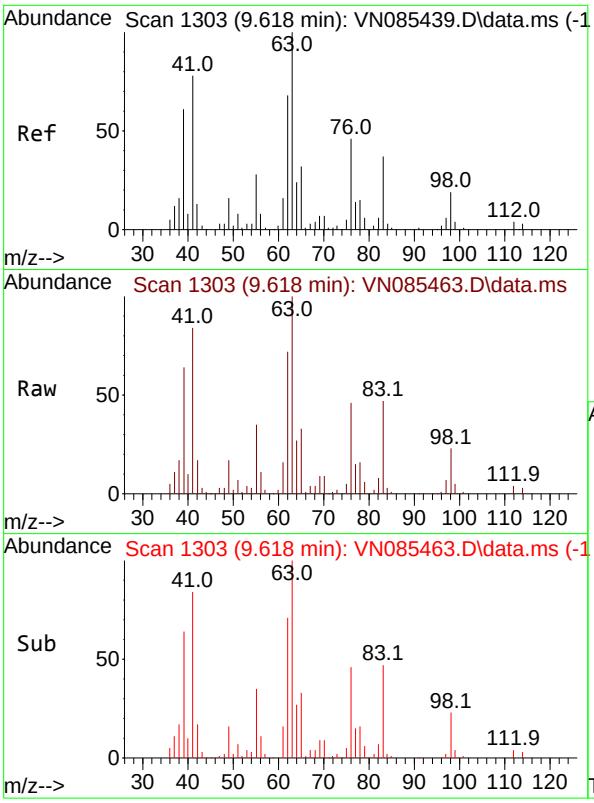


#44
Trichloroethene
Concen: 49.260 ug/l
RT: 9.347 min Scan# 1257
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion:130 Resp: 125677

Ion	Ratio	Lower	Upper
130	100		
95	103.0	0.0	195.8



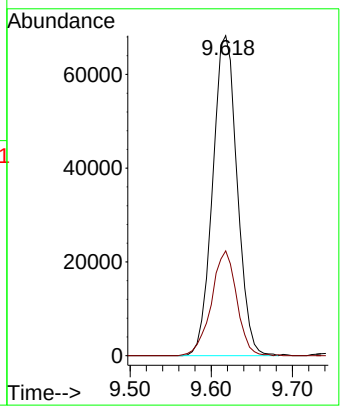


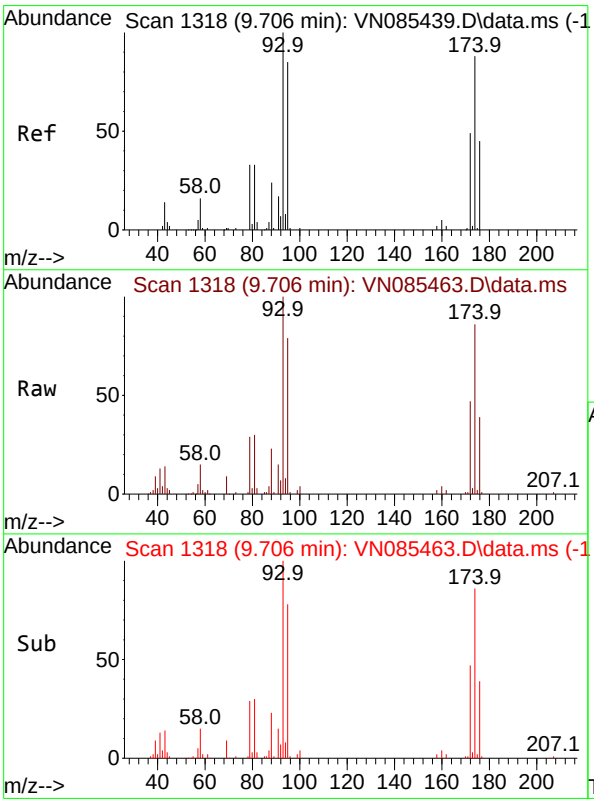
#45
1,2-Dichloropropane
Concen: 51.043 ug/l
RT: 9.618 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 63 Resp: 142897

Ion	Ratio	Lower	Upper
63	100		
65	32.7	25.6	38.4

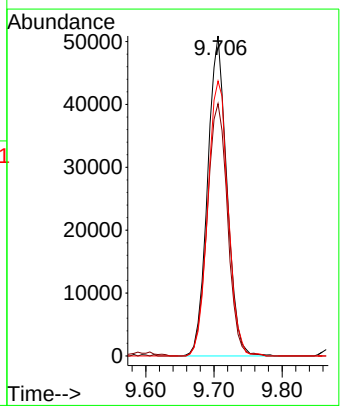


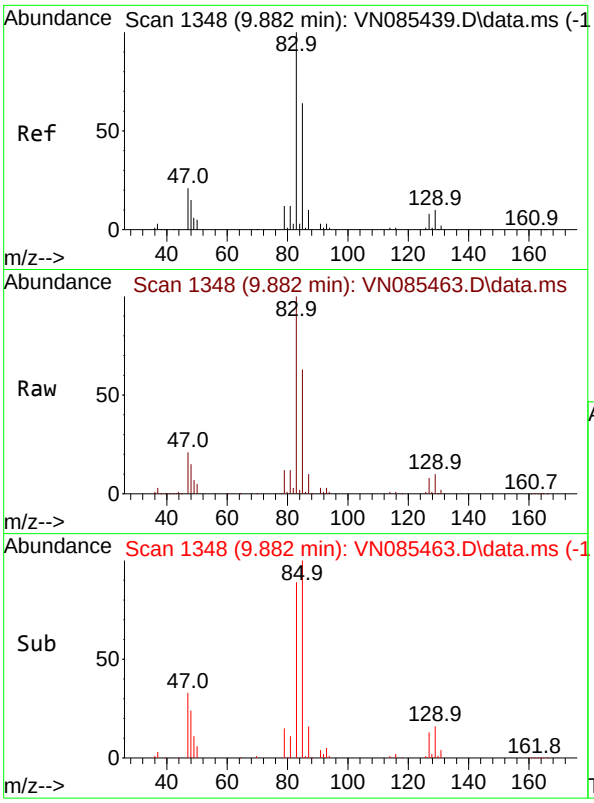


#46
Dibromomethane
Concen: 49.750 ug/l
RT: 9.706 min Scan# 1318
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 93 Resp: 100497

Ion	Ratio	Lower	Upper
93	100		
95	82.8	64.7	97.1
174	90.0	69.0	103.4



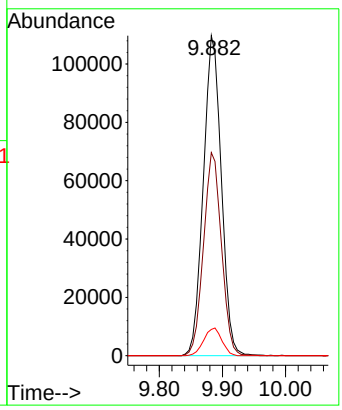


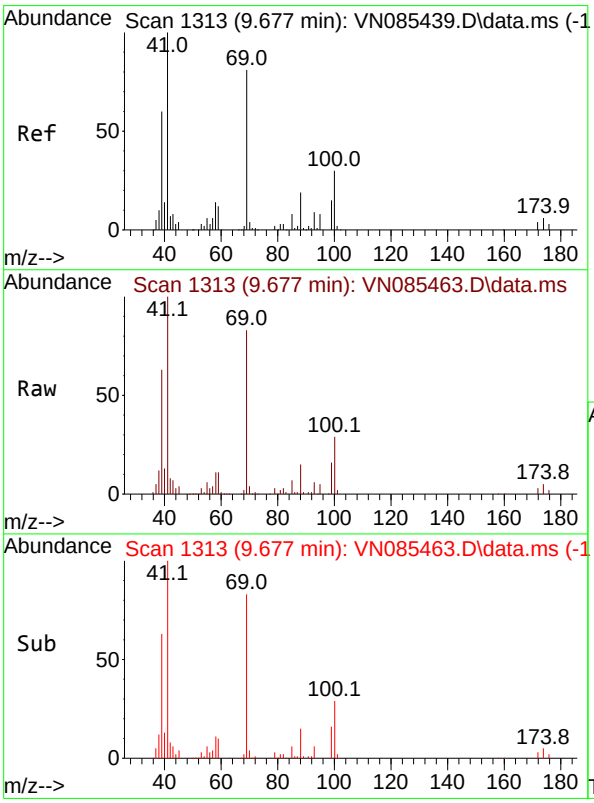
#47
Bromodichloromethane
Concen: 52.814 ug/l
RT: 9.882 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 217353

Ion	Ratio	Lower	Upper
83	100		
85	63.5	51.2	76.8
127	8.2	6.5	9.7

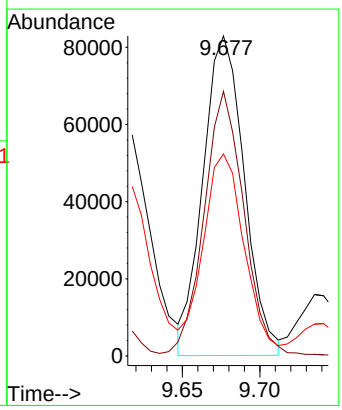


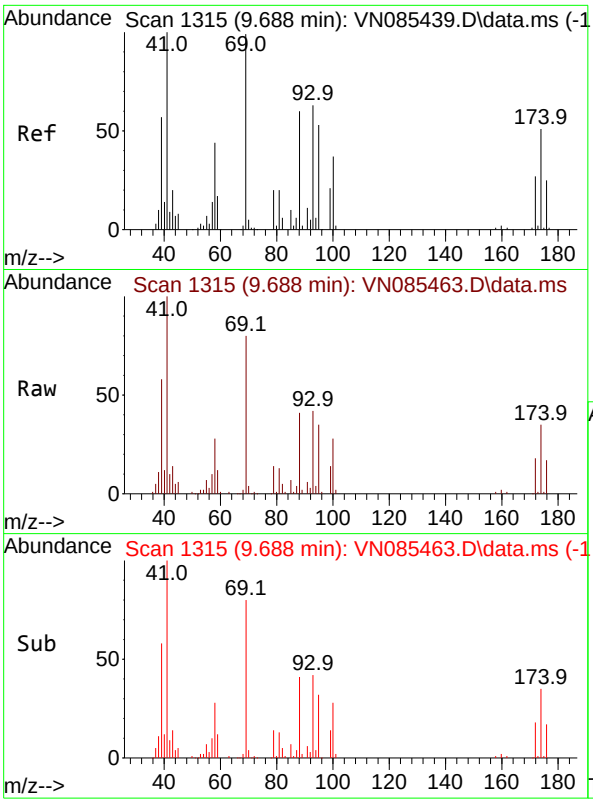


#48
Methyl methacrylate
Concen: 57.796 ug/l
RT: 9.677 min Scan# 1313
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 41 Resp: 153447

Ion	Ratio	Lower	Upper
41	100		
69	80.2	64.7	97.1
39	63.2	49.0	73.6



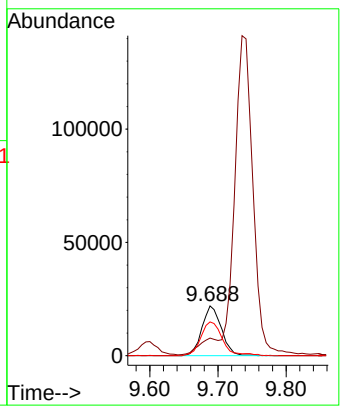


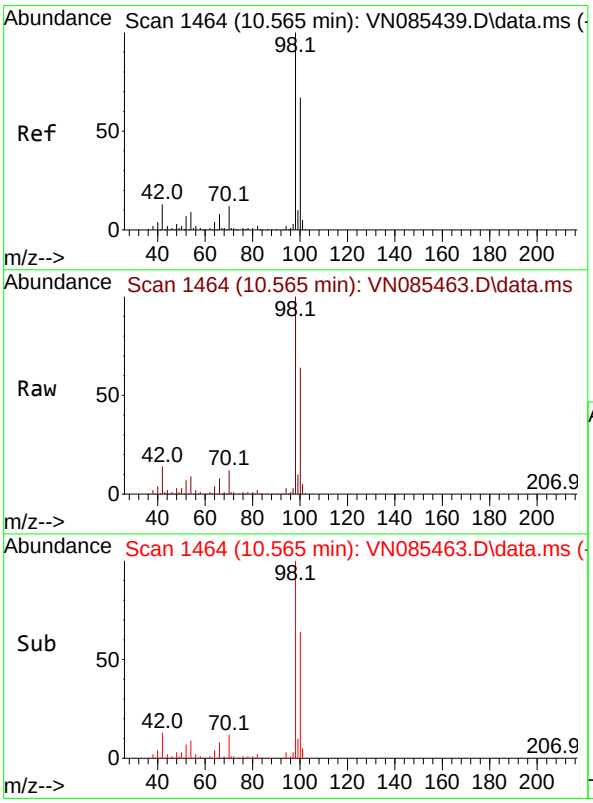
#49
1,4-Dioxane
Concen: 972.836 ug/l
RT: 9.688 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 88 Resp: 43495

Ion	Ratio	Lower	Upper
88	100		
43	32.9	26.6	39.8
58	75.2	59.5	89.3

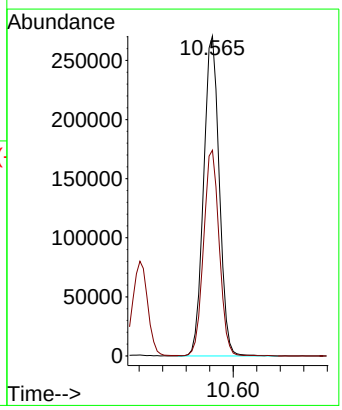


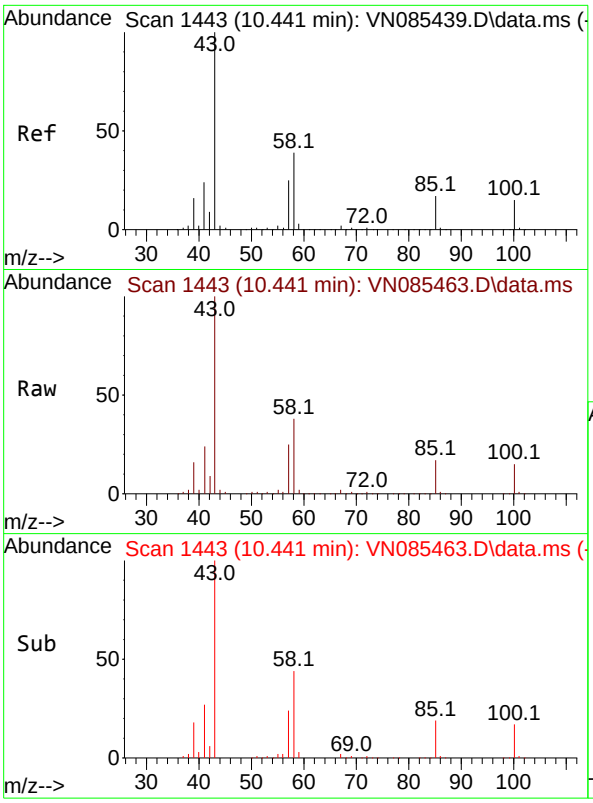


#50
Toluene-d8
Concen: 54.009 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 98 Resp: 498748

Ion	Ratio	Lower	Upper
98	100		
100	64.2	52.2	78.4



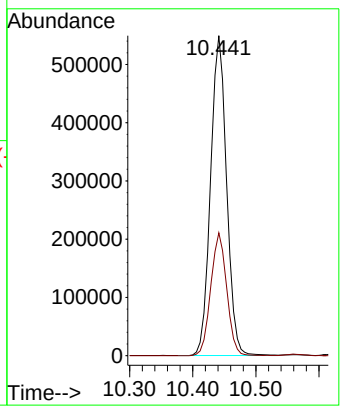


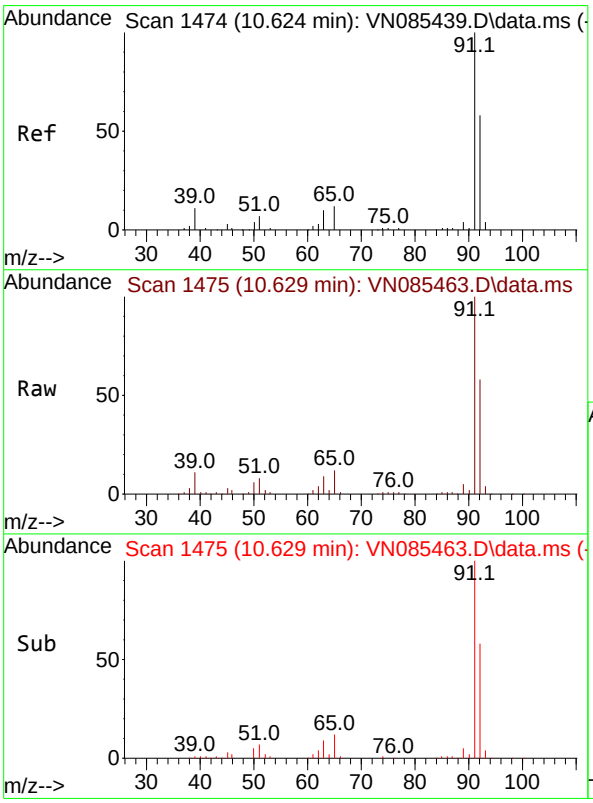
#51
4-Methyl-2-Pentanone
Concen: 282.679 ug/l
RT: 10.441 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 967748

Ion	Ratio	Lower	Upper
43	100		
58	38.2	30.5	45.7

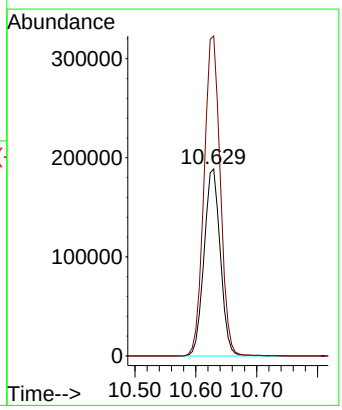


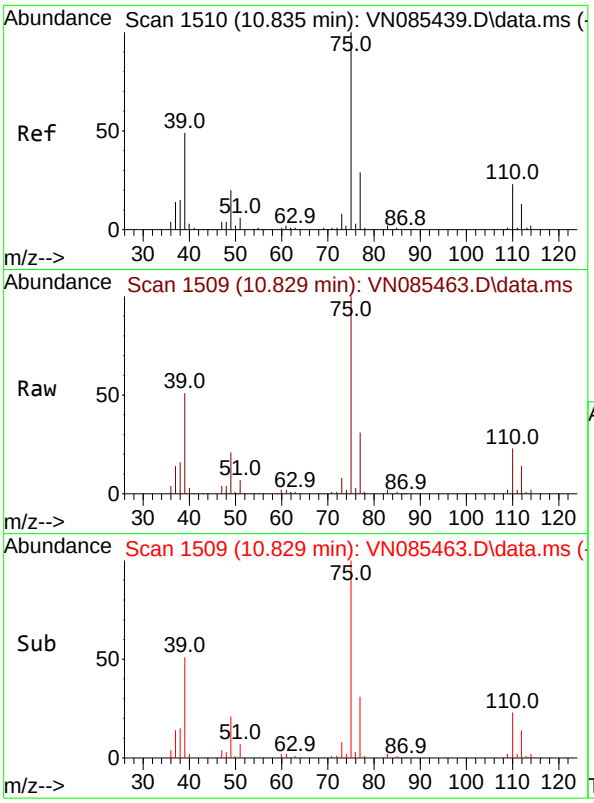


#52
Toluene
Concen: 55.032 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.005 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 92 Resp: 349488

Ion	Ratio	Lower	Upper
92	100		
91	171.6	139.2	208.8



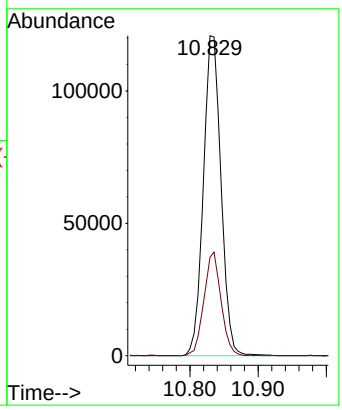


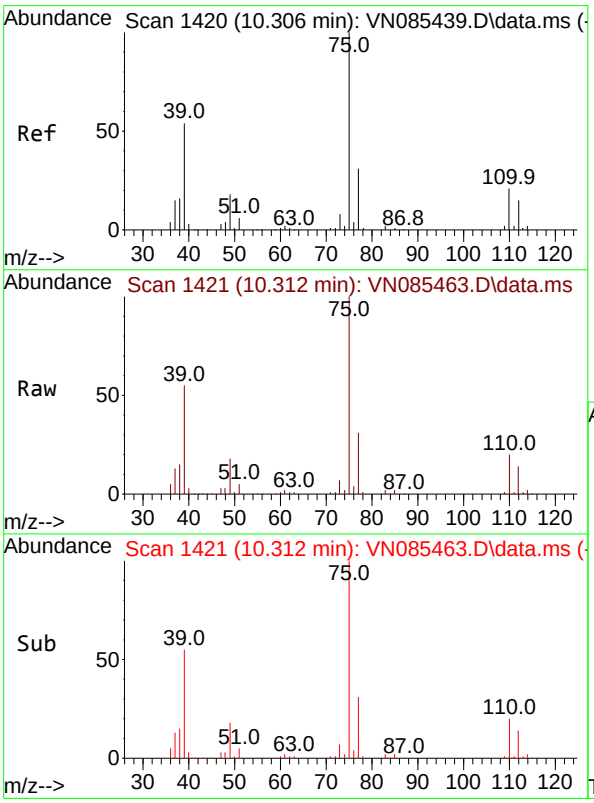
#53
t-1,3-Dichloropropene
Concen: 55.946 ug/l
RT: 10.829 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 75 Resp: 217586

Ion	Ratio	Lower	Upper
75	100		
77	30.8	23.5	35.3

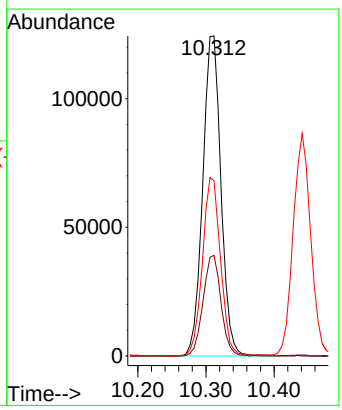


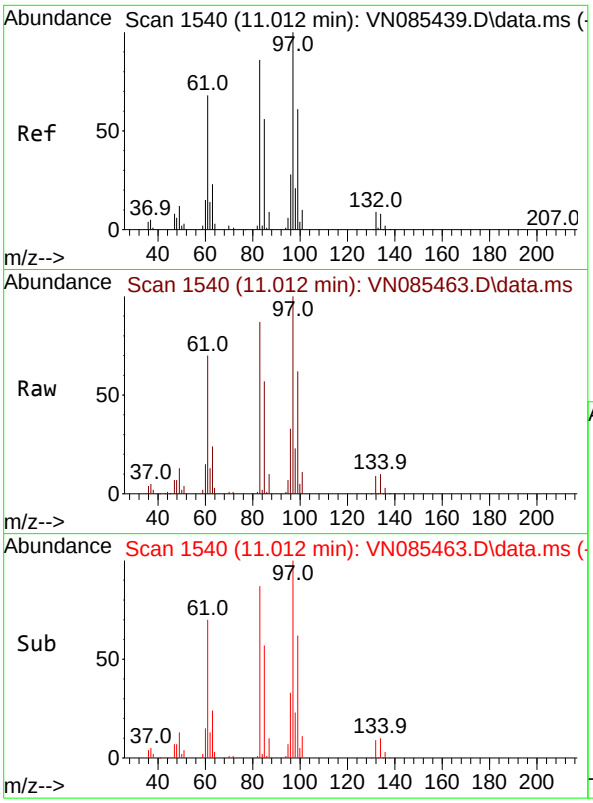


#54
cis-1,3-Dichloropropene
Concen: 55.661 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.006 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 75 Resp: 231235

Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.0	37.4
39	54.6	43.1	64.7



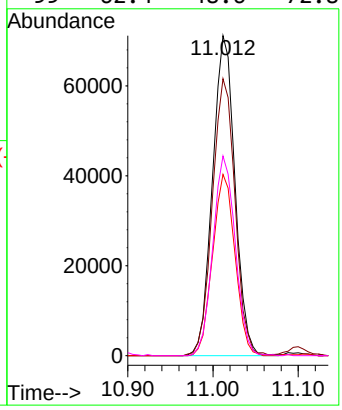


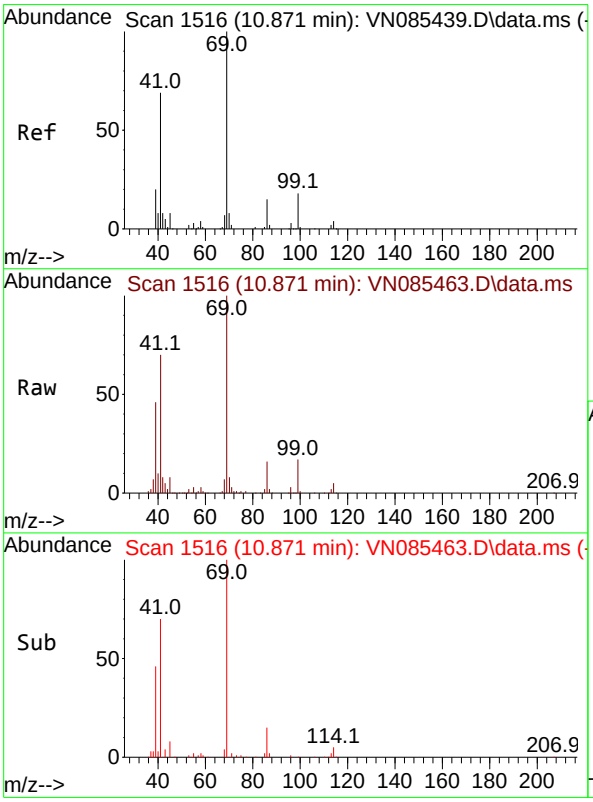
#55
1,1,2-Trichloroethane
Concen: 51.759 ug/l
RT: 11.012 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 97 Resp: 130083

Ion	Ratio	Lower	Upper
97	100		
83	86.5	69.0	103.6
85	56.7	44.6	66.8
99	62.4	48.6	72.8

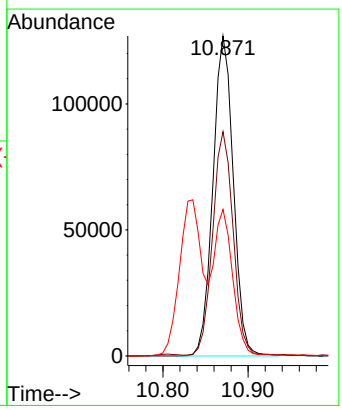


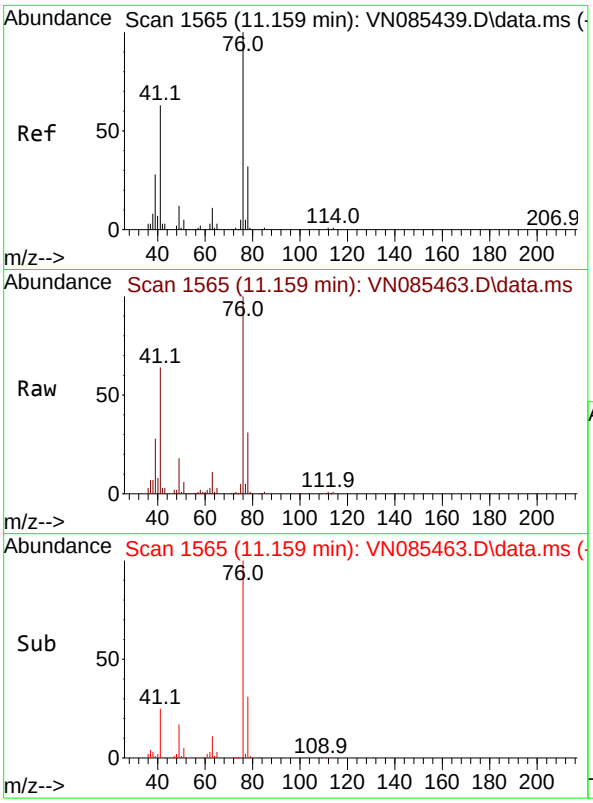


#56
Ethyl methacrylate
Concen: 49.885 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 69 Resp: 211176

Ion	Ratio	Lower	Upper
69	100		
41	70.3	54.6	82.0
39	41.5	32.4	48.6



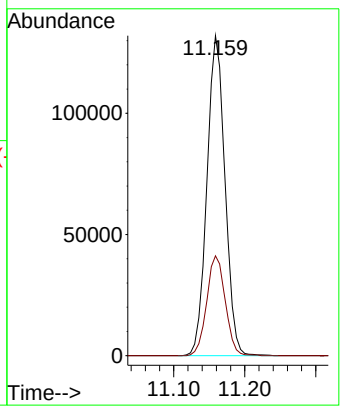


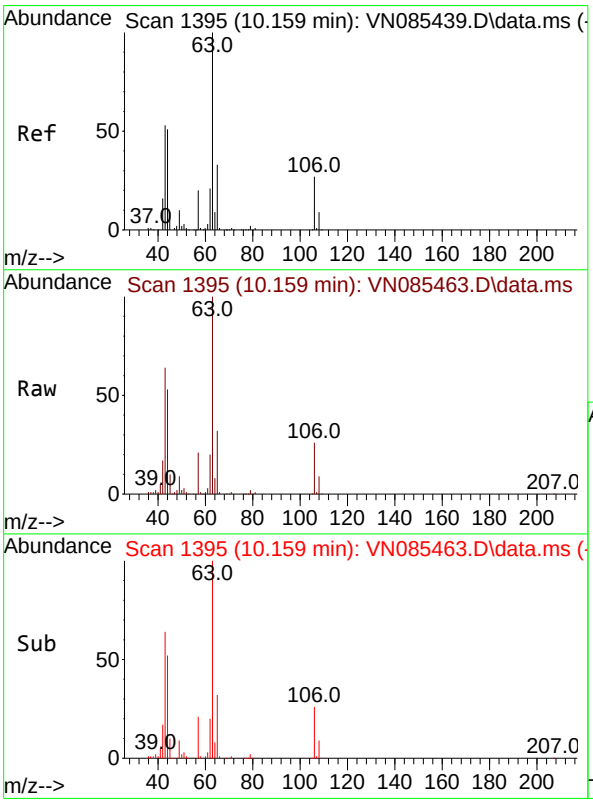
#57
1,3-Dichloropropane
Concen: 53.338 ug/l
RT: 11.159 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 76 Resp: 233088

Ion	Ratio	Lower	Upper
76	100		
78	32.0	25.6	38.4

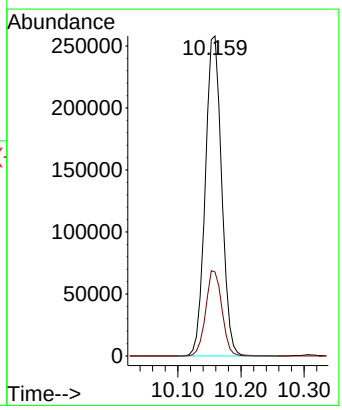


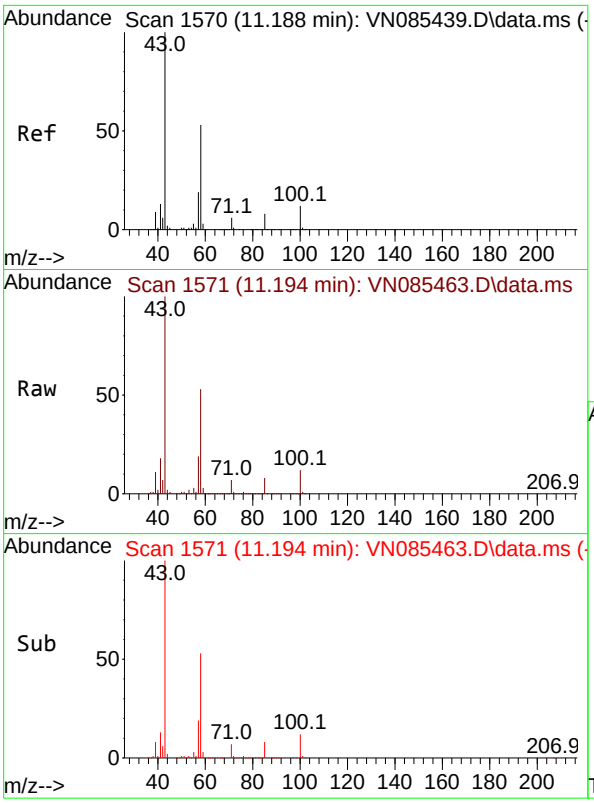


#58
2-Chloroethyl Vinyl ether
Concen: 290.228 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 63 Resp: 462882

Ion	Ratio	Lower	Upper
63	100		
106	26.4	21.6	32.4



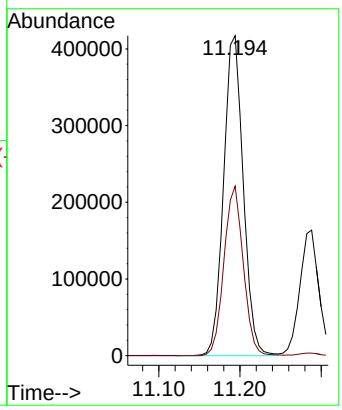


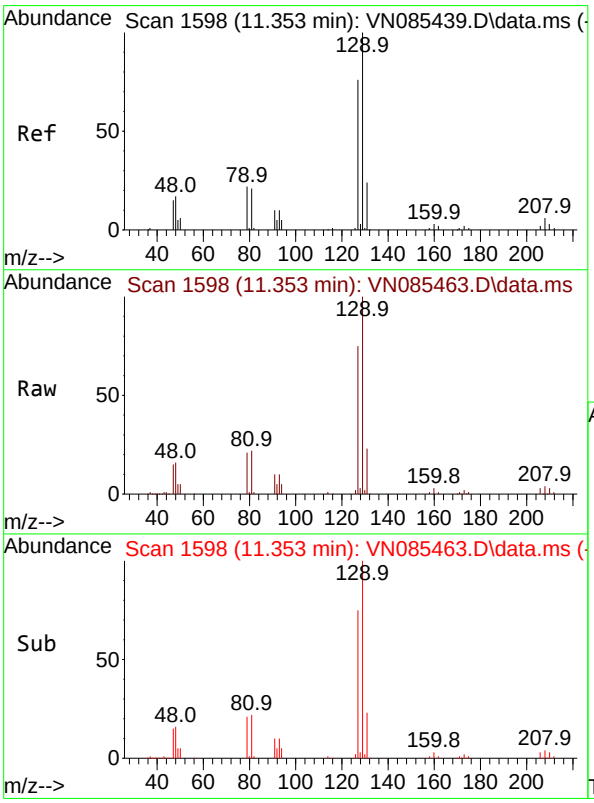
#59
2-Hexanone
Concen: 292.136 ug/l
RT: 11.194 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 703719

Ion	Ratio	Lower	Upper
43	100		
58	52.0	26.2	78.6

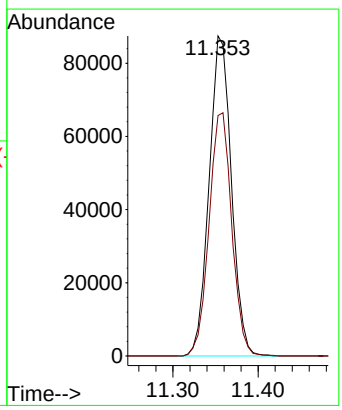


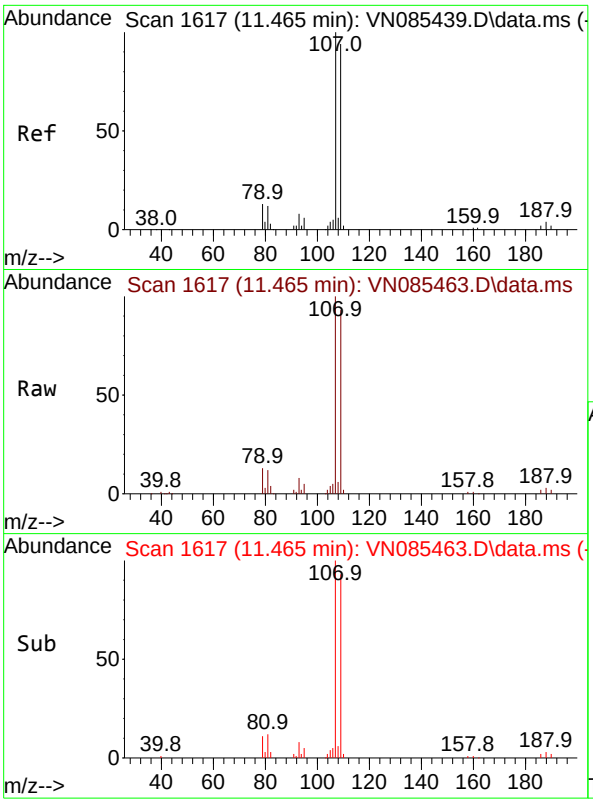


#60
Dibromochloromethane
Concen: 52.339 ug/l
RT: 11.353 min Scan# 1598
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion:129 Resp: 158806

Ion	Ratio	Lower	Upper
129	100		
127	77.4	38.6	115.8



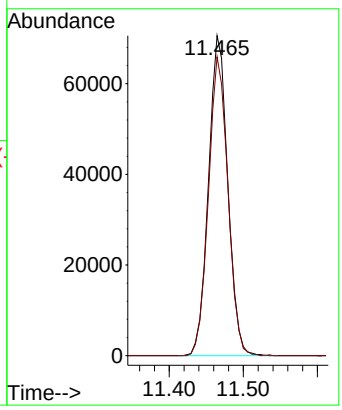


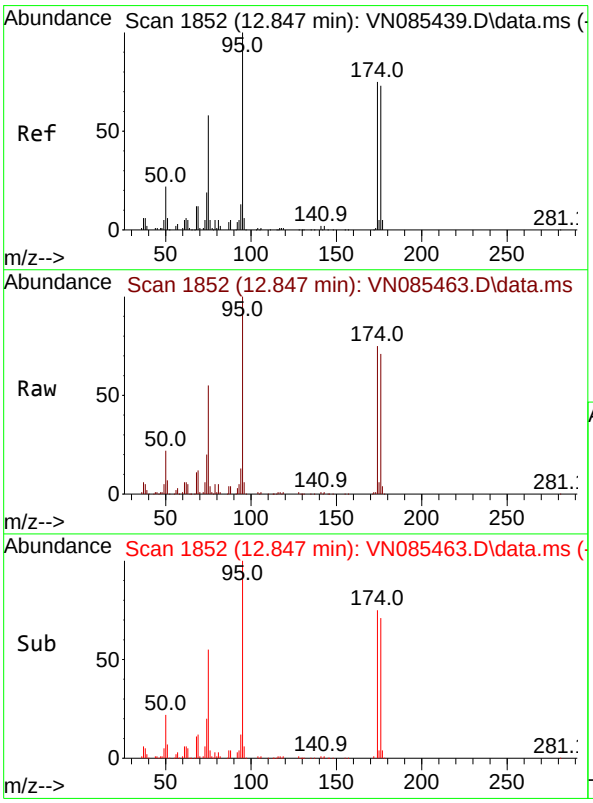
#61
1,2-Dibromoethane
Concen: 51.040 ug/l
RT: 11.465 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:107 Resp: 127688

Ion	Ratio	Lower	Upper
107	100		
109	94.2	75.9	113.9

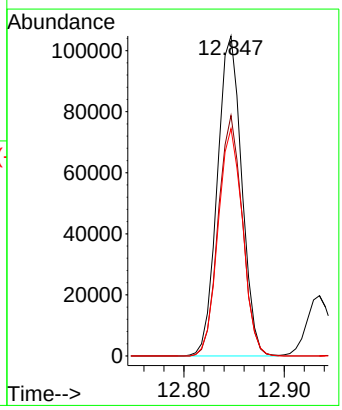


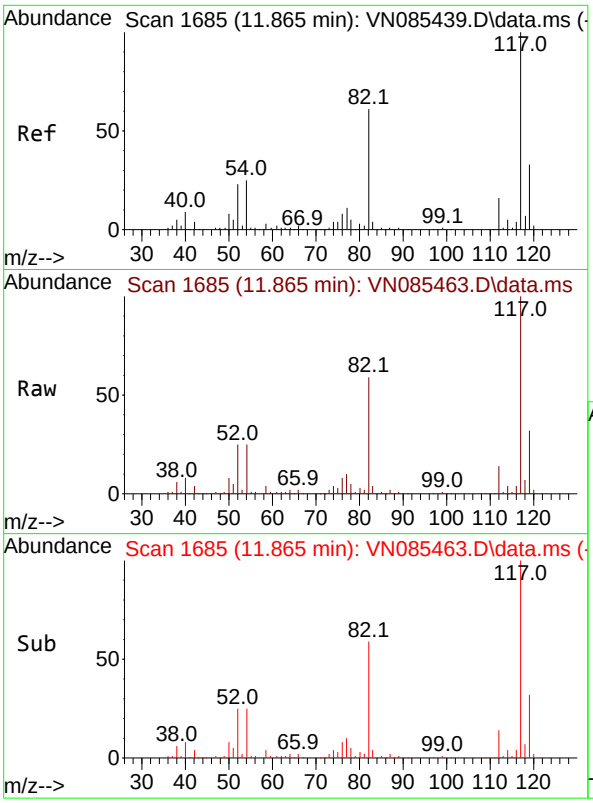


#62
4-Bromofluorobenzene
Concen: 56.127 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 95 Resp: 177300

Ion	Ratio	Lower	Upper
95	100		
174	73.9	0.0	145.0
176	71.4	0.0	142.4



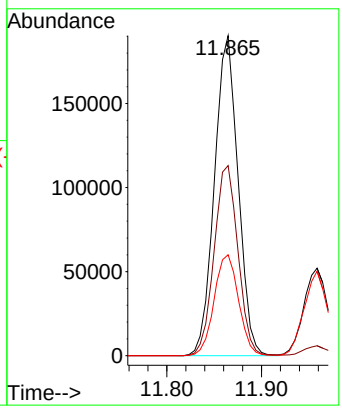


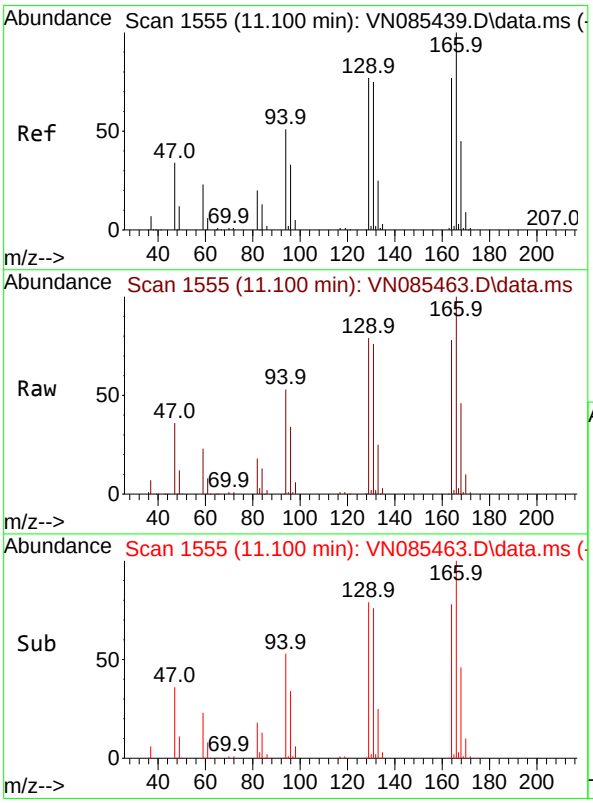
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:117 Resp: 330319

Ion	Ratio	Lower	Upper
117	100		
82	59.4	48.6	72.8
119	31.6	26.6	39.8

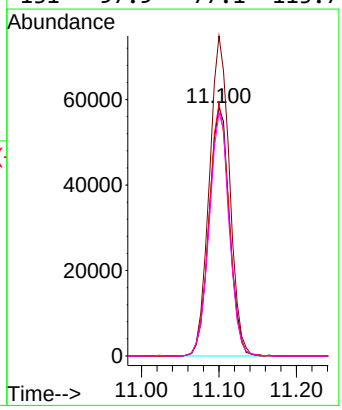


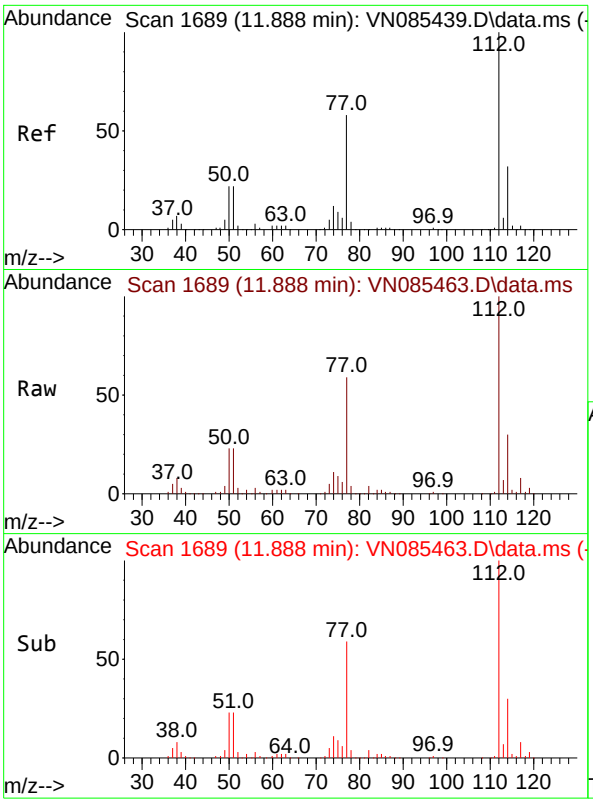


#64
Tetrachloroethene
Concen: 47.207 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion:164 Resp: 106305

Ion	Ratio	Lower	Upper
164	100		
166	128.8	103.4	155.2
129	101.8	79.2	118.8
131	97.9	77.1	115.7



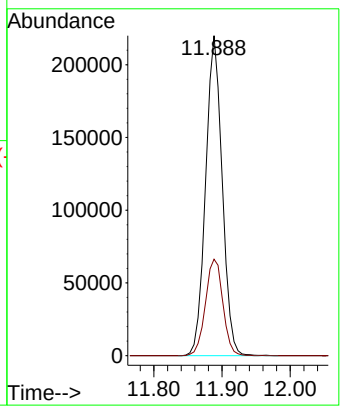


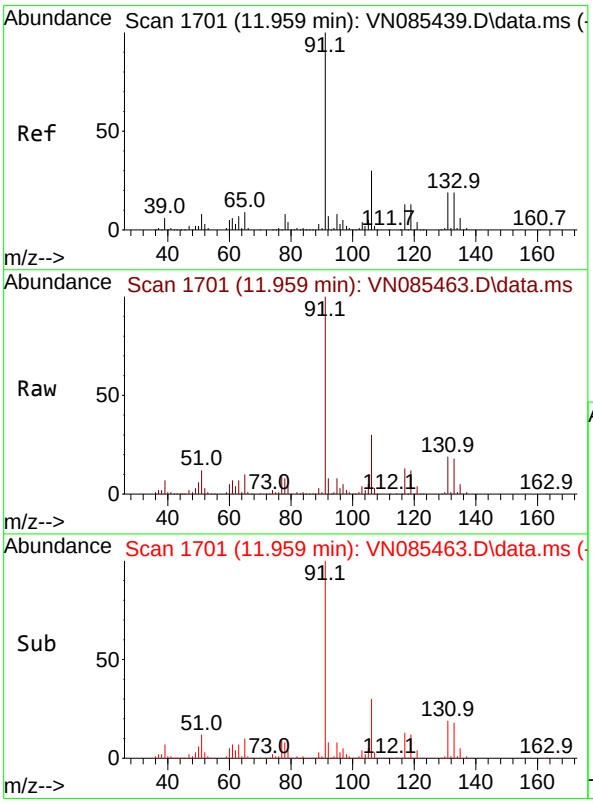
#65
Chlorobenzene
Concen: 51.313 ug/l
RT: 11.888 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:112 Resp: 371312

Ion	Ratio	Lower	Upper
112	100		
114	30.2	25.3	37.9

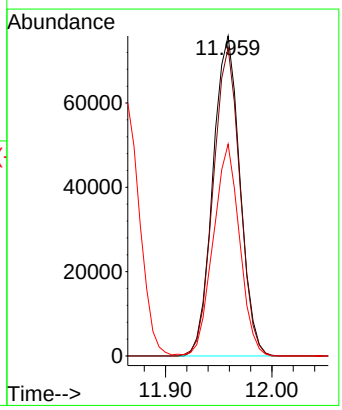


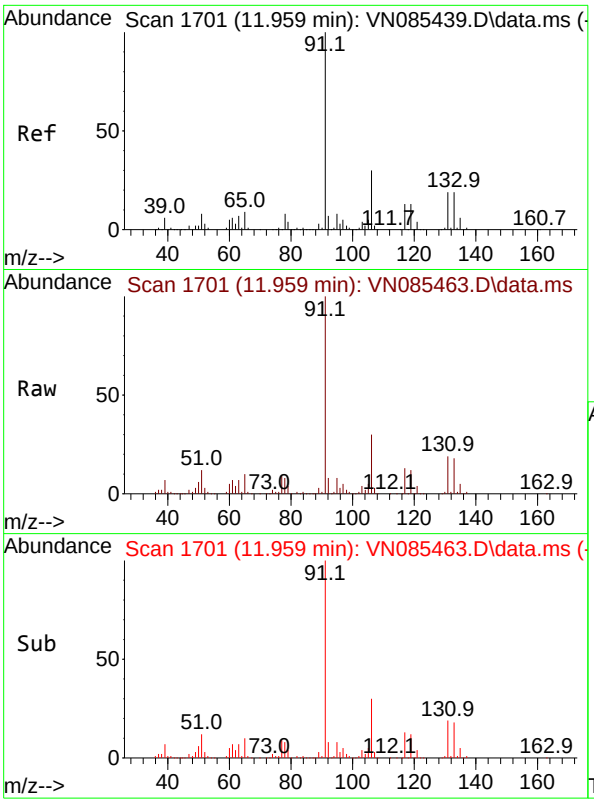


#66
1,1,1,2-Tetrachloroethane
Concen: 50.351 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion:131 Resp: 133724

Ion	Ratio	Lower	Upper
131	100		
133	95.2	47.4	142.3
119	64.4	33.1	99.5



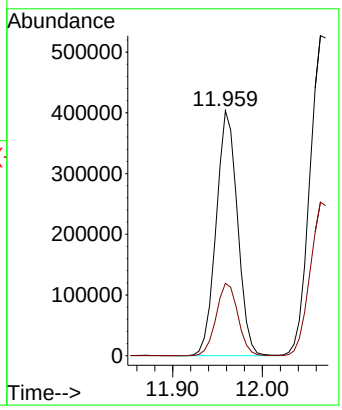


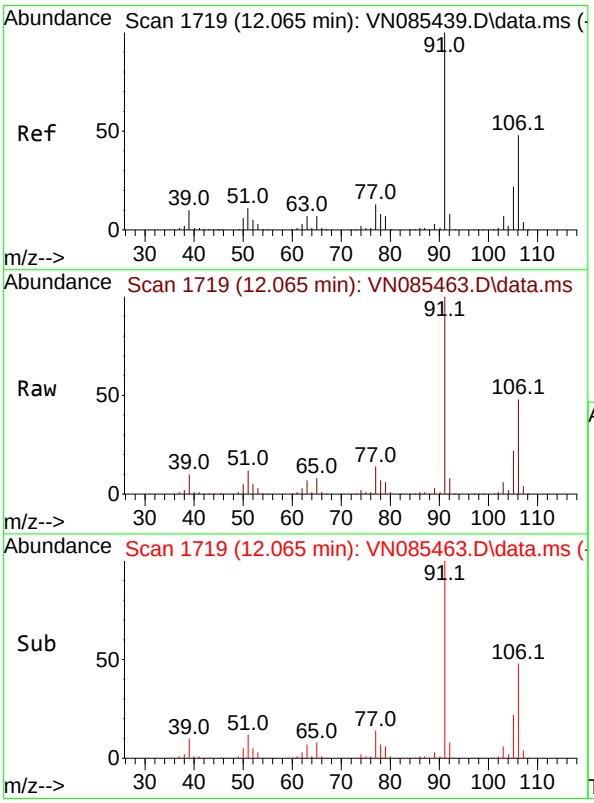
#67
Ethyl Benzene
Concen: 56.469 ug/l
RT: 11.959 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 665536

Ion	Ratio	Lower	Upper
91	100		
106	29.5	23.8	35.8

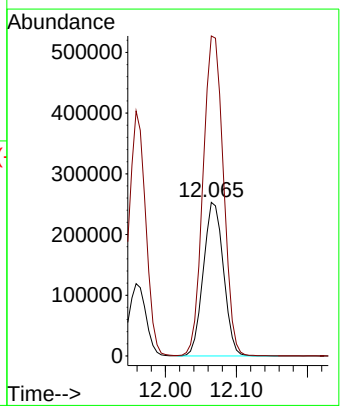


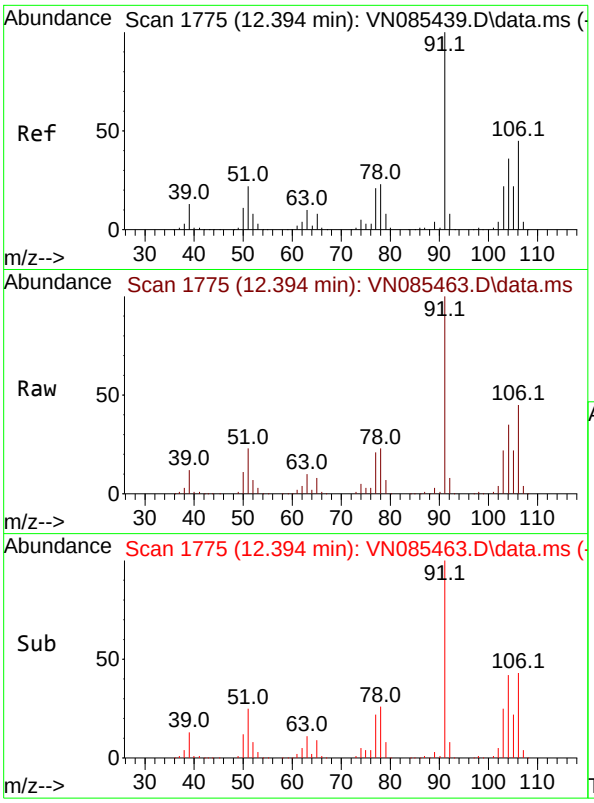


#68
m/p-Xylenes
Concen: 114.541 ug/l
RT: 12.065 min Scan# 1719
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion:106 Resp: 498925

Ion	Ratio	Lower	Upper
106	100		
91	210.4	167.7	251.5



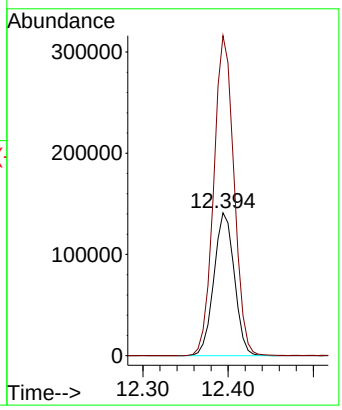


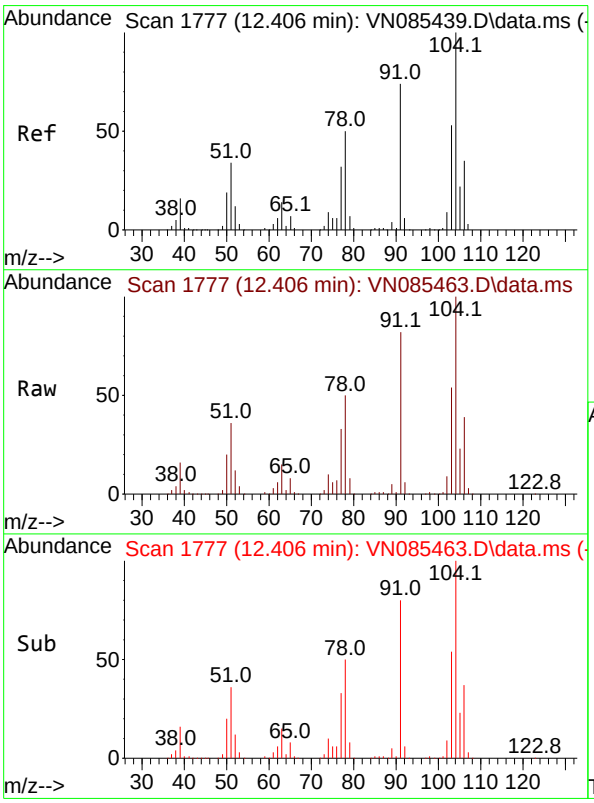
#69
o-Xylene
Concen: 56.724 ug/l
RT: 12.394 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:106 Resp: 236130

Ion	Ratio	Lower	Upper
106	100		
91	222.0	110.4	331.2

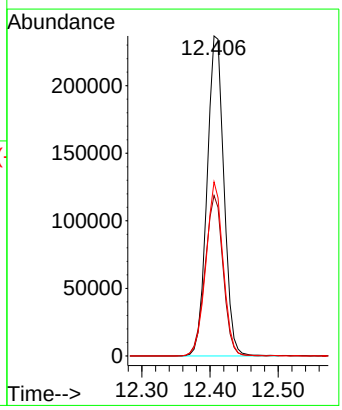


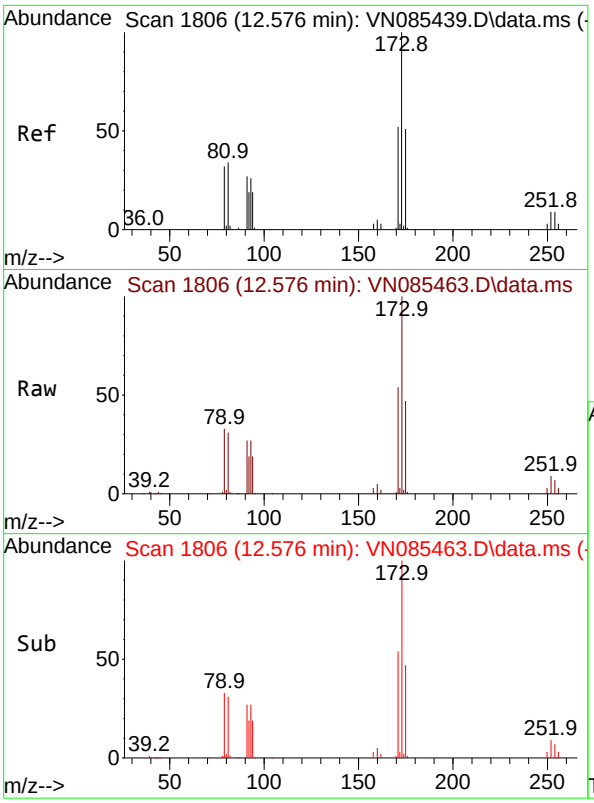


#70
Styrene
Concen: 59.312 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion:104 Resp: 408614

Ion	Ratio	Lower	Upper
104	100		
78	53.4	42.5	63.7
103	55.4	43.8	65.8



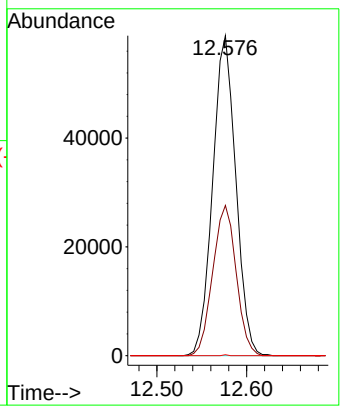


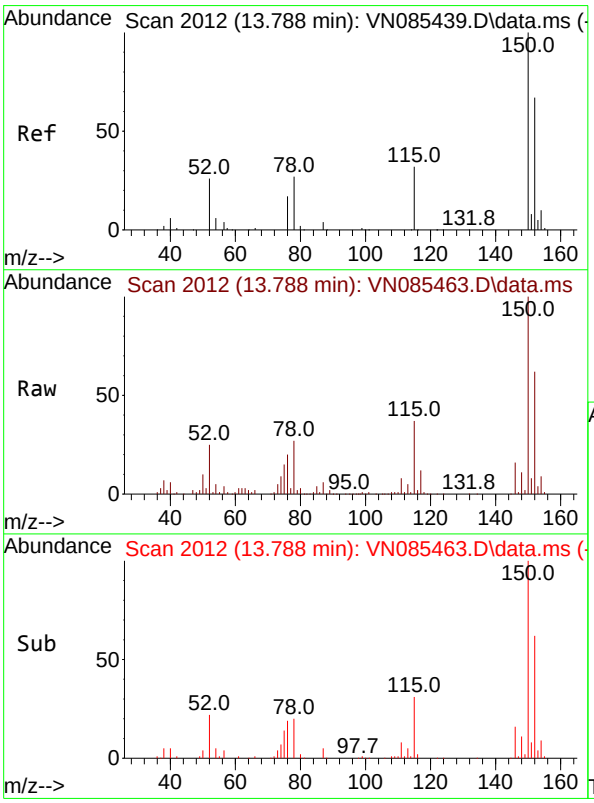
#71
Bromoform
Concen: 55.344 ug/l
RT: 12.576 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:173 Resp: 105169

Ion	Ratio	Lower	Upper
173	100		
175	47.5	24.4	73.2
254	0.1	0.0	0.0#

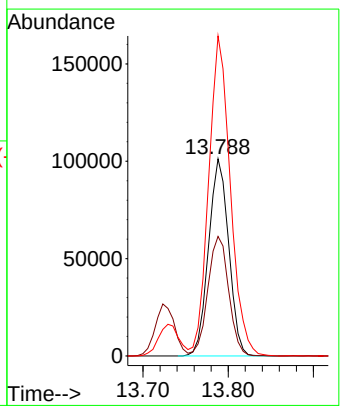


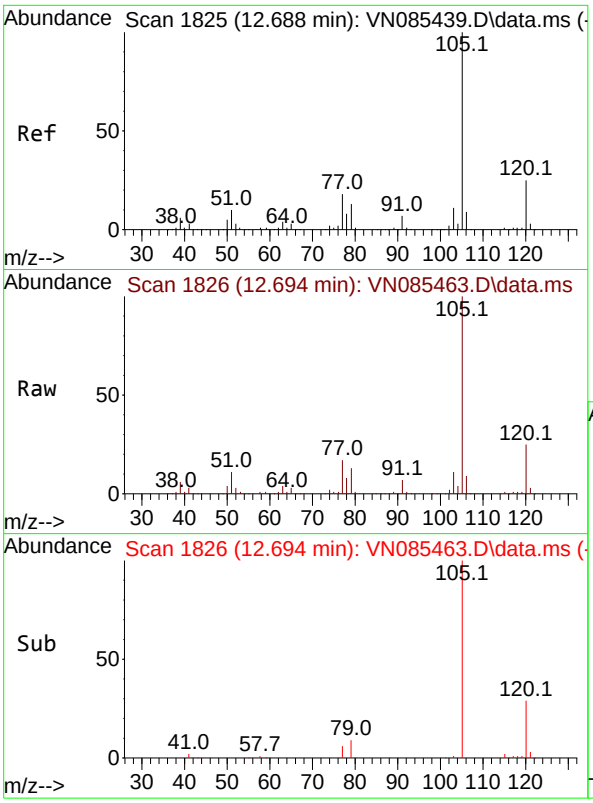


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion:152 Resp: 166317

Ion	Ratio	Lower	Upper
152	100		
115	62.7	31.1	93.3
150	174.6	0.0	343.6



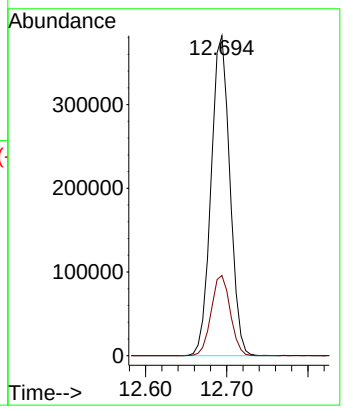


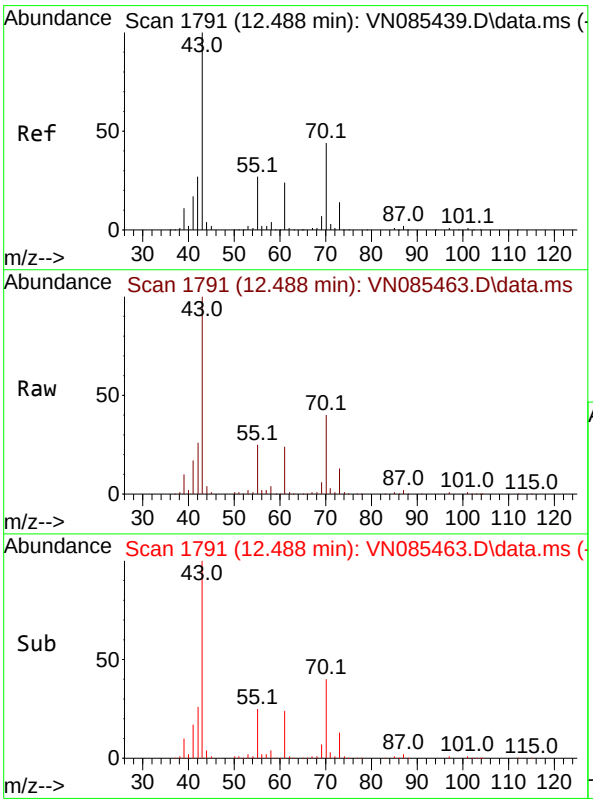
#73
Isopropylbenzene
Concen: 54.752 ug/l
RT: 12.694 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:105 Resp: 614595

Ion	Ratio	Lower	Upper
105	100		
120	25.5	12.8	38.3

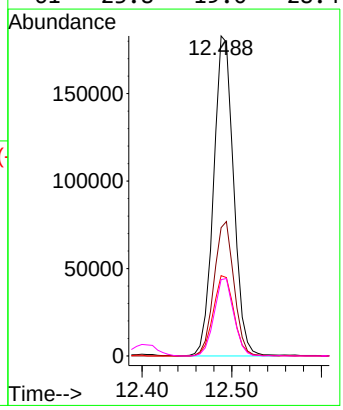


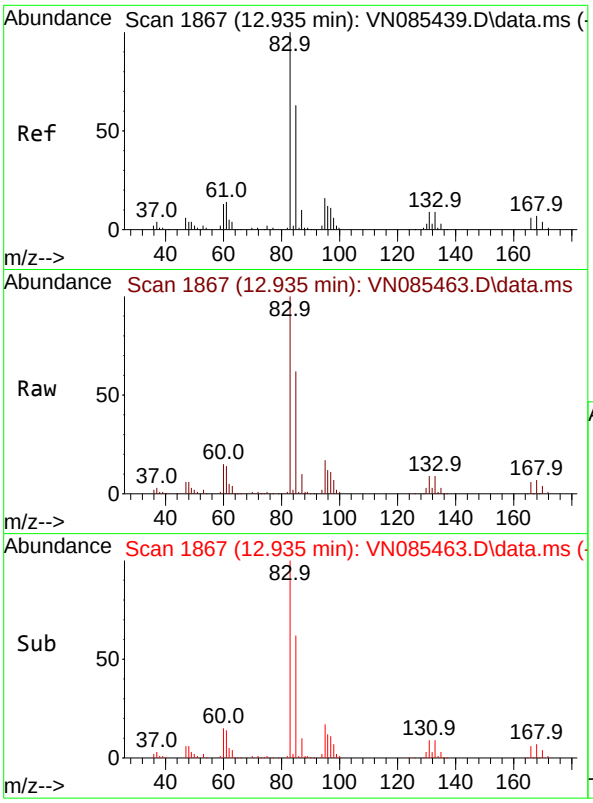


#74
N-amyl acetate
Concen: 56.244 ug/l
RT: 12.488 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 43 Resp: 283775

Ion	Ratio	Lower	Upper
43	100		
70	41.8	34.0	51.0
55	25.9	21.4	32.2
61	23.8	19.0	28.4



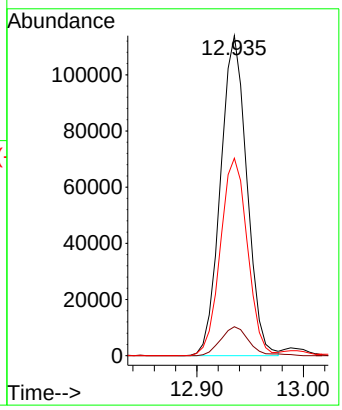


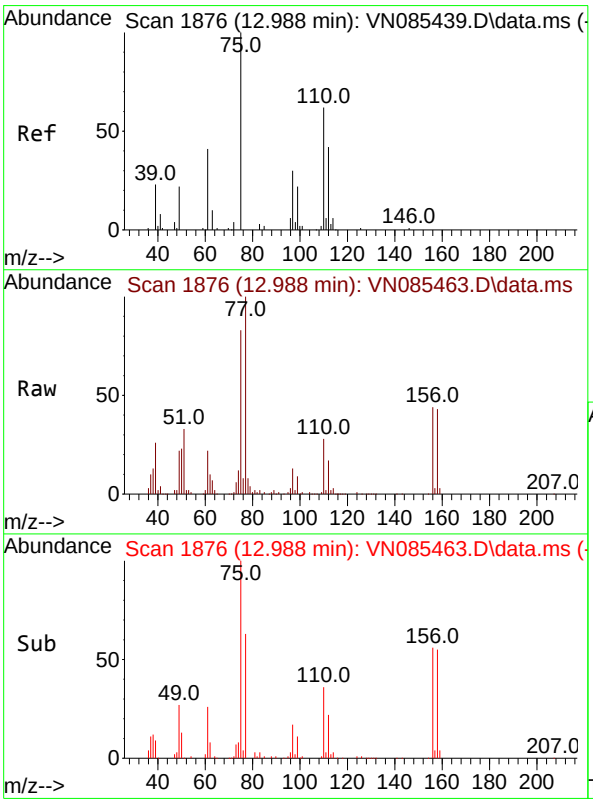
#75
1,1,2,2-Tetrachloroethane
Concen: 49.296 ug/l
RT: 12.935 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 195465

Ion	Ratio	Lower	Upper
83	100		
131	9.7	4.8	14.4
85	63.5	32.2	96.6

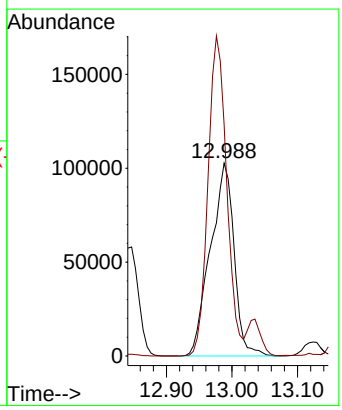


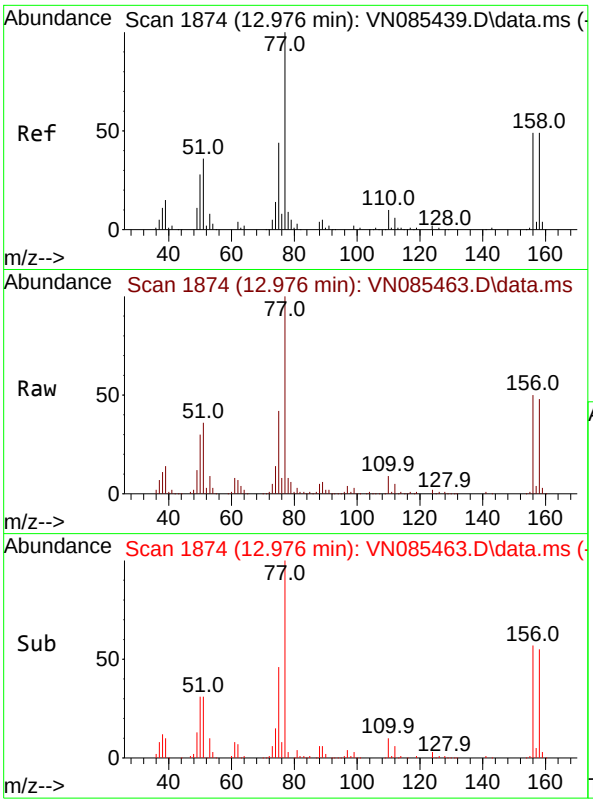


#76
1,2,3-Trichloropropane
Concen: 76.171 ug/l
RT: 12.988 min Scan# 1876
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 75 Resp: 257490

Ion	Ratio	Lower	Upper
75	100		
77	131.3	109.7	329.2



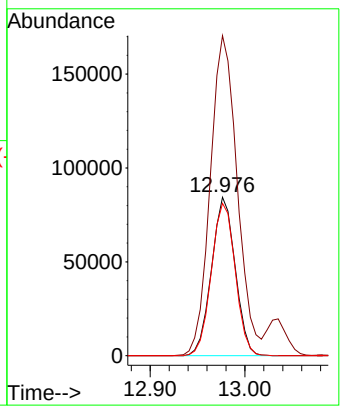


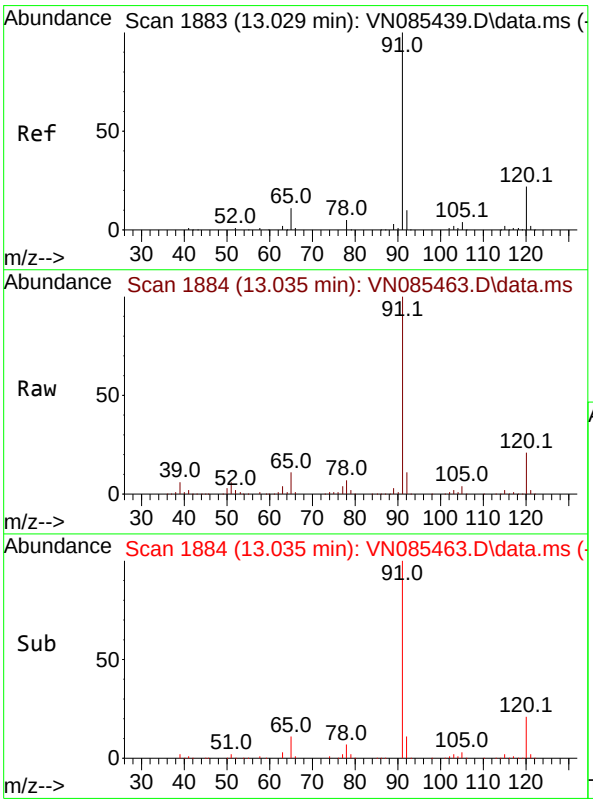
#77
Bromobenzene
Concen: 50.075 ug/l
RT: 12.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:156 Resp: 146854

Ion	Ratio	Lower	Upper
156	100		
77	230.3	114.1	342.4
158	96.8	48.9	146.8

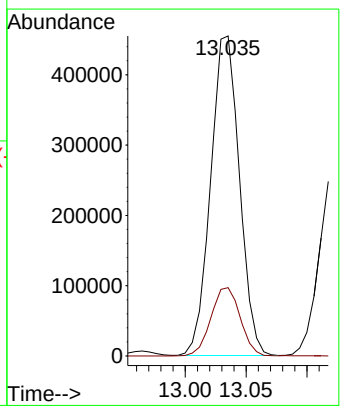


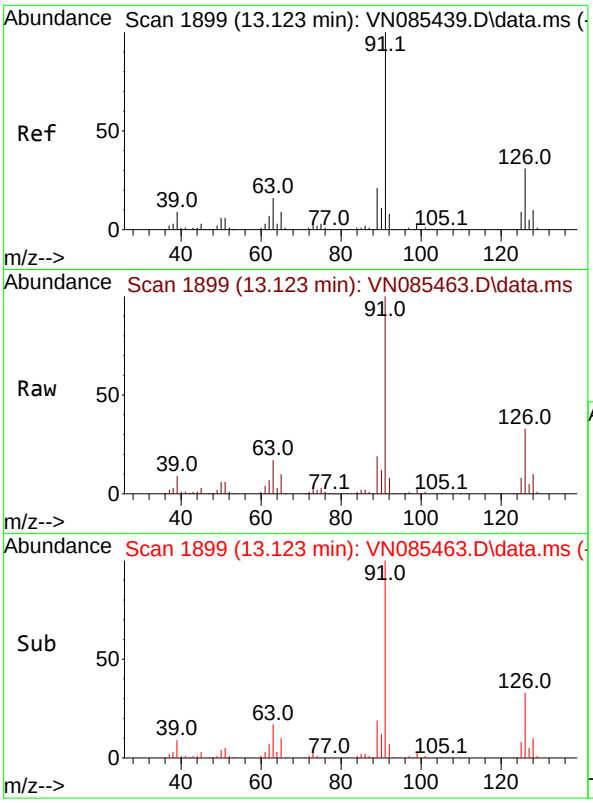


#78
n-propylbenzene
Concen: 56.324 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.006 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 91 Resp: 748465

Ion	Ratio	Lower	Upper
91	100		
120	21.8	10.9	32.6



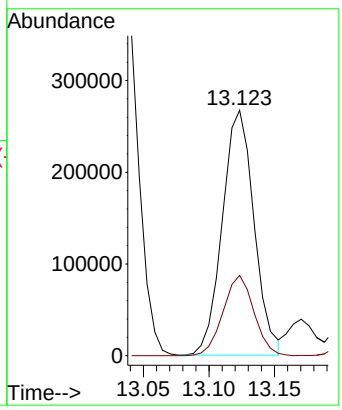


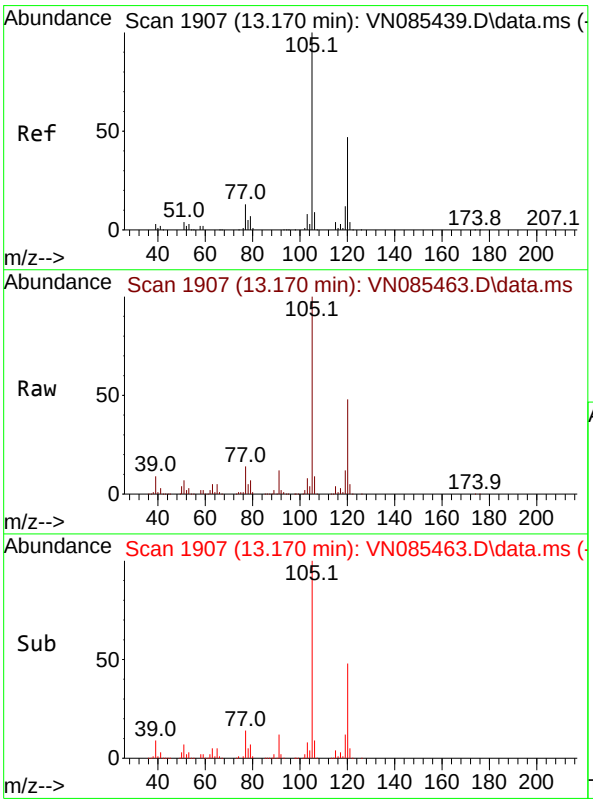
#79
2-Chlorotoluene
Concen: 52.351 ug/l
RT: 13.123 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 450235

Ion	Ratio	Lower	Upper
91	100		
126	31.8	15.7	47.1

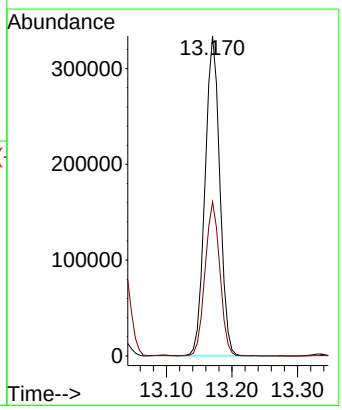


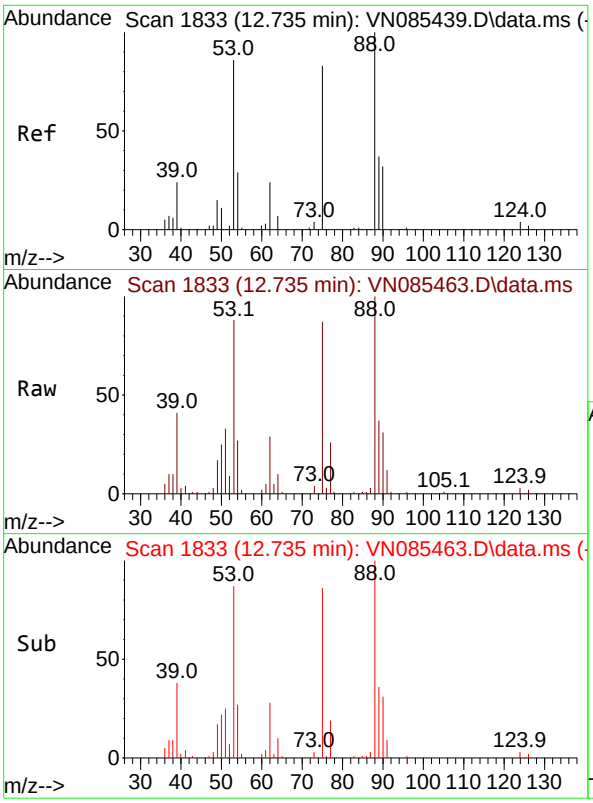


#80
1,3,5-Trimethylbenzene
Concen: 56.485 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion:105 Resp: 523728

Ion	Ratio	Lower	Upper
105	100		
120	48.2	23.9	71.7



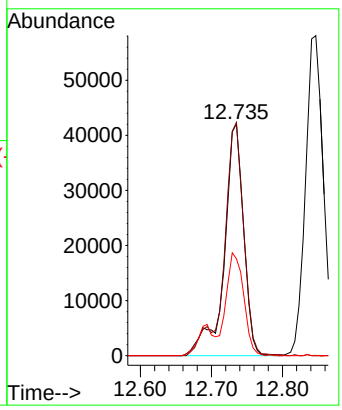


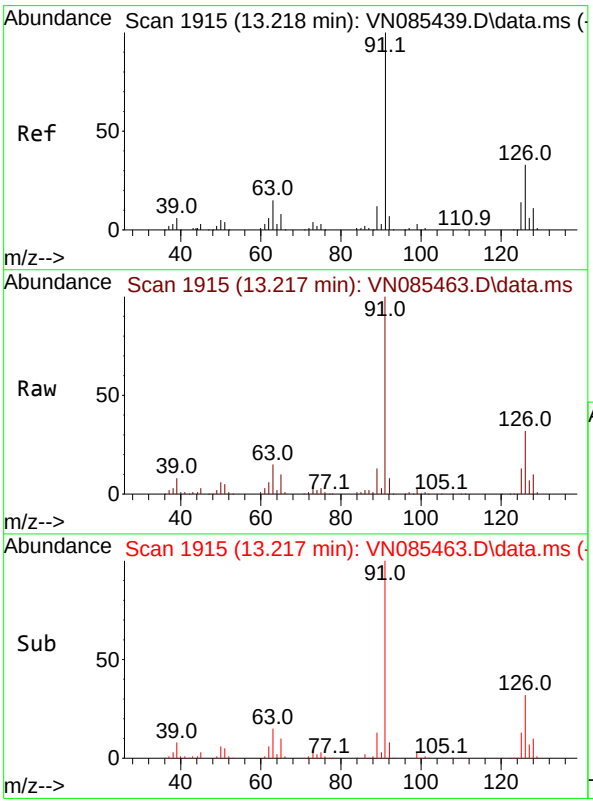
#81
trans-1,4-Dichloro-2-butene
Concen: 63.816 ug/l
RT: 12.735 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 75 Resp: 79734

Ion	Ratio	Lower	Upper
75	100		
53	101.6	95.6	143.4
89	40.6	37.0	55.6

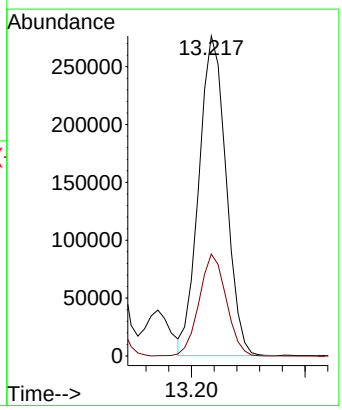


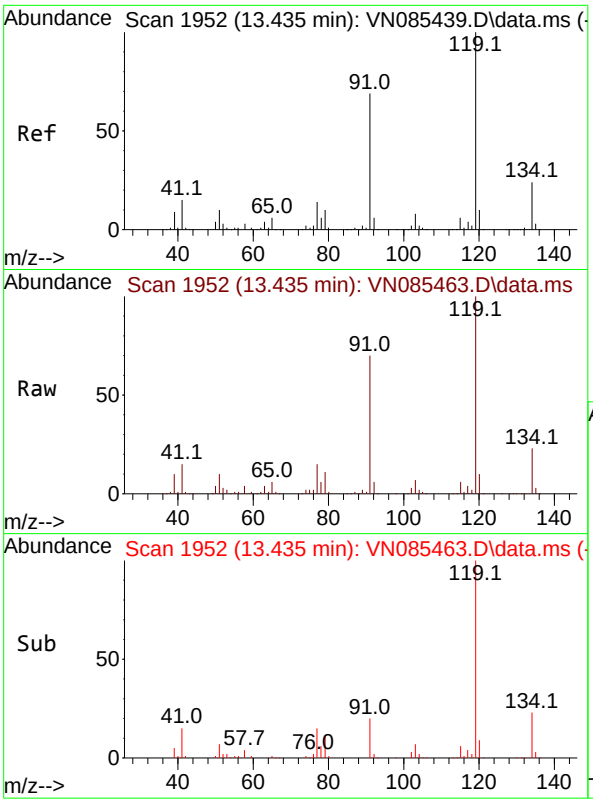


#82
4-Chlorotoluene
Concen: 53.678 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 91 Resp: 459658

Ion	Ratio	Lower	Upper
91	100		
126	31.6	15.9	47.7



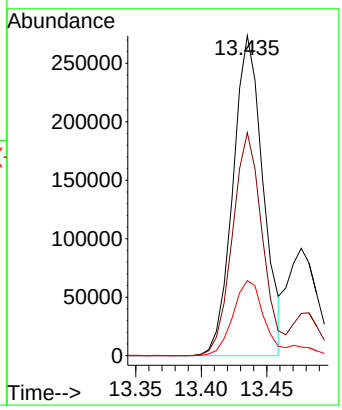


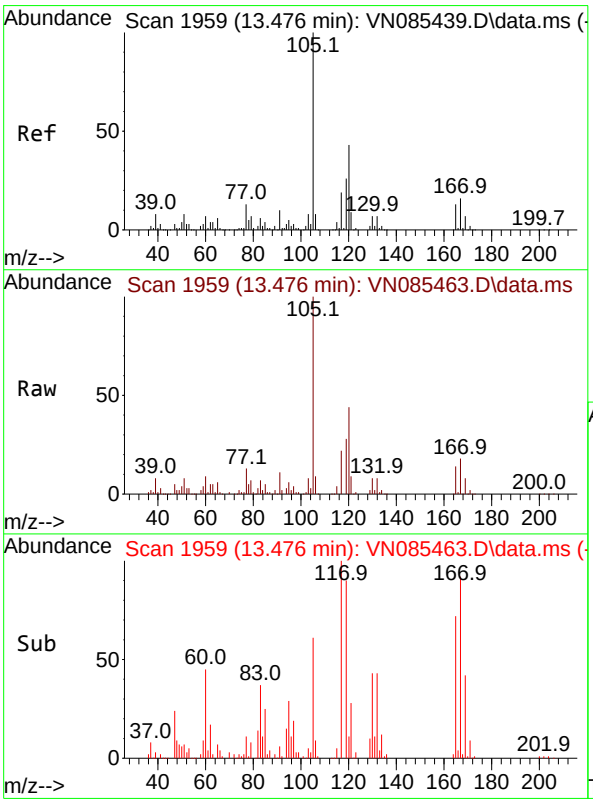
#83
tert-Butylbenzene
Concen: 56.211 ug/l
RT: 13.435 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:119 Resp: 437674

Ion	Ratio	Lower	Upper
119	100		
91	69.9	35.1	105.3
134	24.1	12.0	36.1

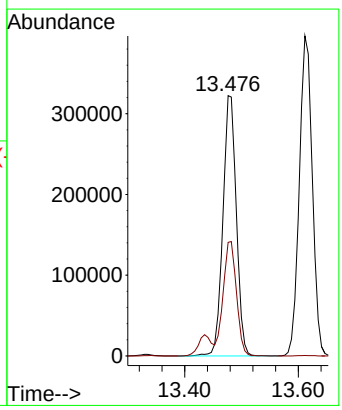


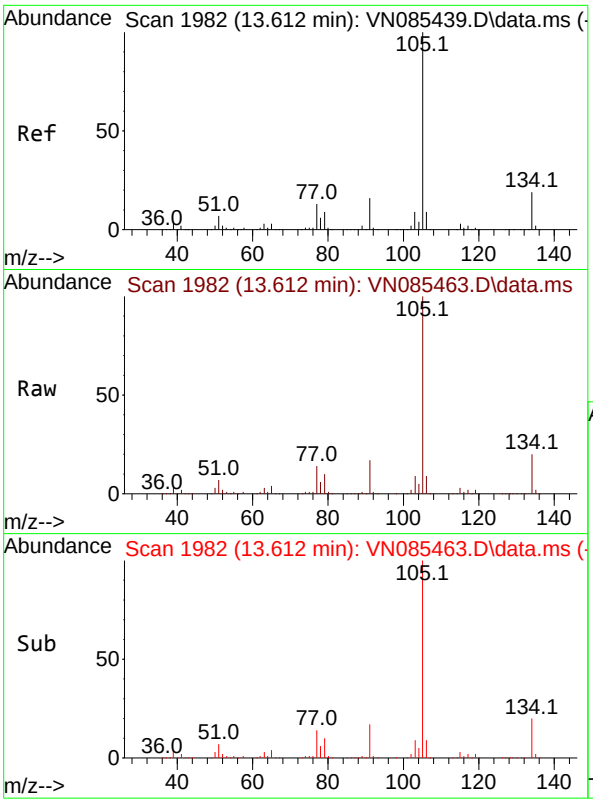


#84
1,2,4-Trimethylbenzene
Concen: 57.491 ug/l
RT: 13.476 min Scan# 1959
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion:105 Resp: 531276

Ion	Ratio	Lower	Upper
105	100		
120	43.5	21.6	65.0



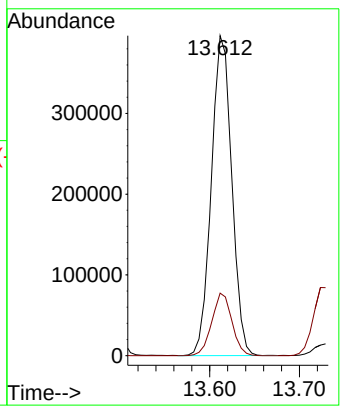


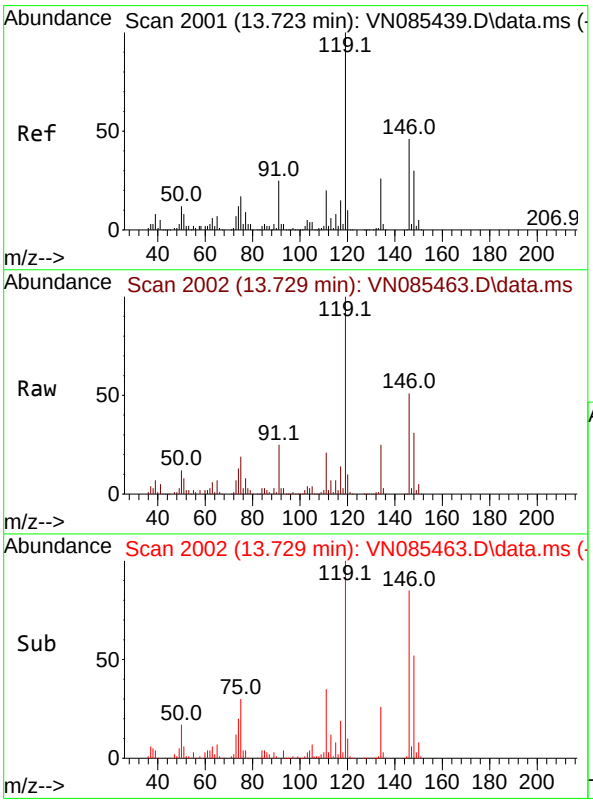
#85
sec-Butylbenzene
Concen: 58.063 ug/l
RT: 13.612 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:105 Resp: 626587

Ion	Ratio	Lower	Upper
105	100		
134	19.2	9.7	28.9

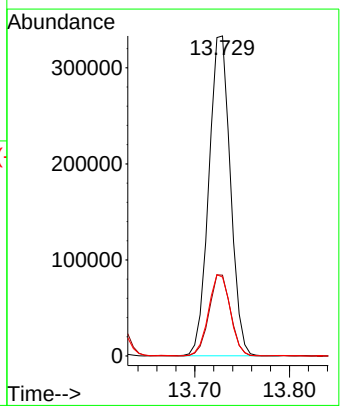


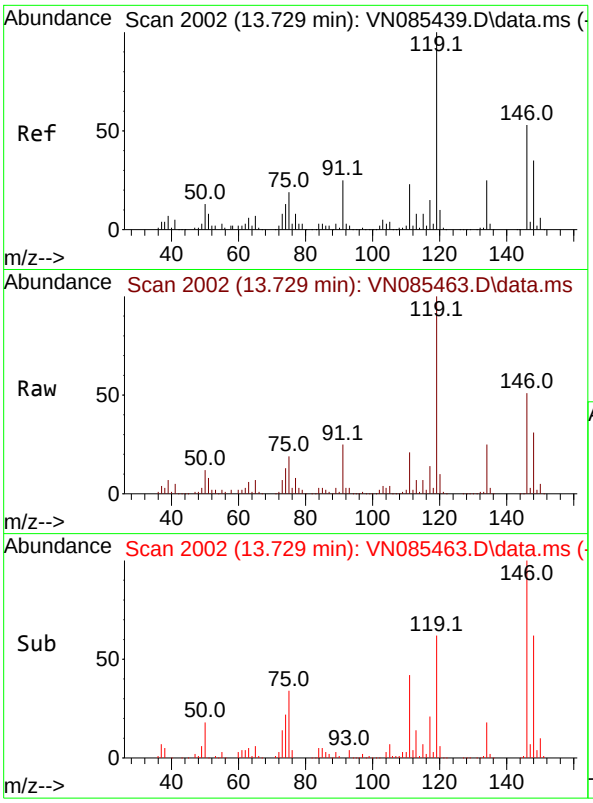


#86
p-Isopropyltoluene
Concen: 53.560 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.006 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion:119 Resp: 525049

Ion	Ratio	Lower	Upper
119	100		
134	25.2	12.7	38.0
91	25.6	12.7	38.1



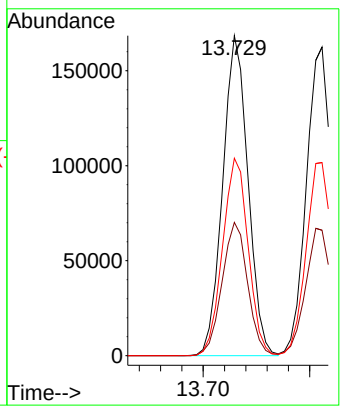


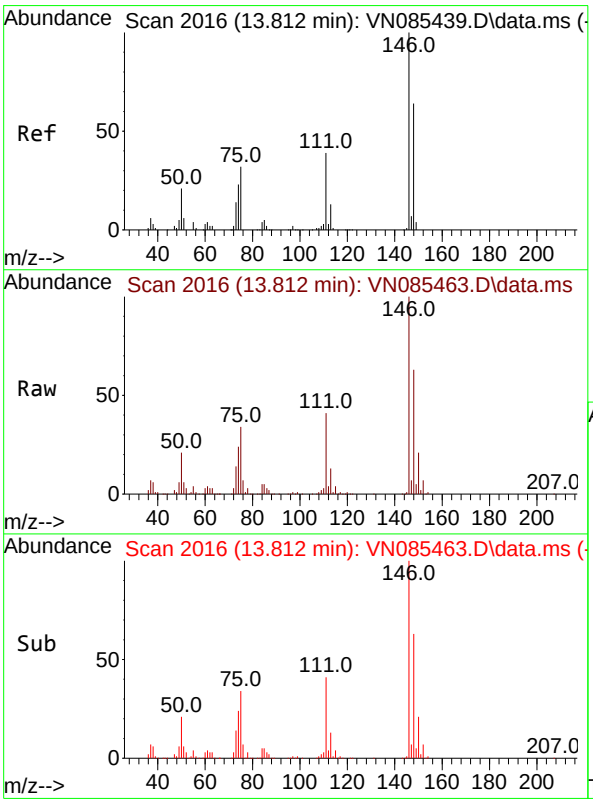
#87
1,3-Dichlorobenzene
Concen: 51.364 ug/l
RT: 13.729 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:146 Resp: 277409

Ion	Ratio	Lower	Upper
146	100		
111	42.2	21.4	64.3
148	62.6	32.3	96.9

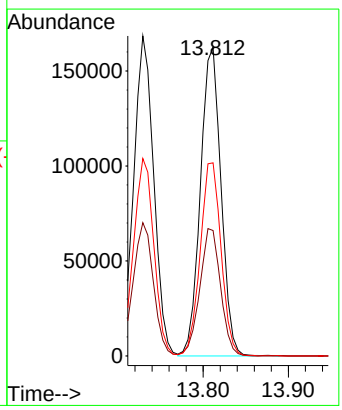


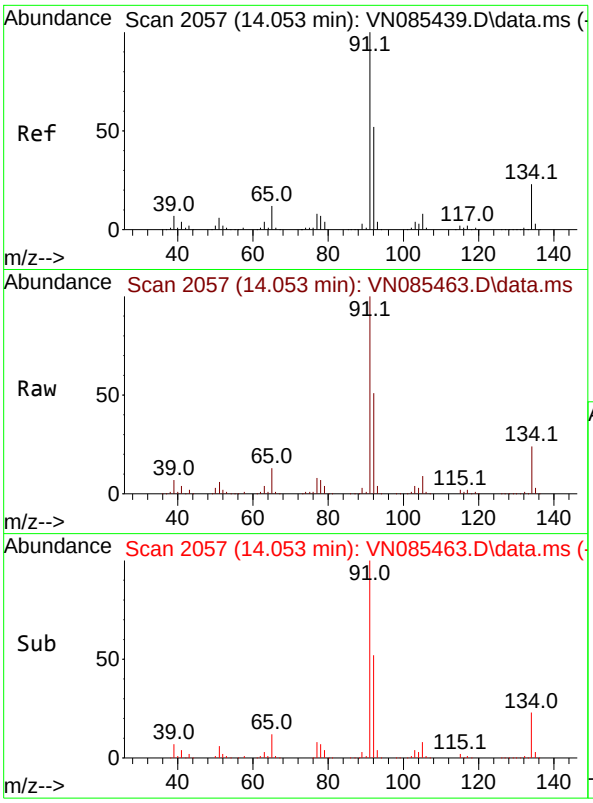


#88
1,4-Dichlorobenzene
Concen: 48.694 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion:146 Resp: 272594

Ion	Ratio	Lower	Upper
146	100		
111	41.7	21.3	63.7
148	63.5	32.4	97.0



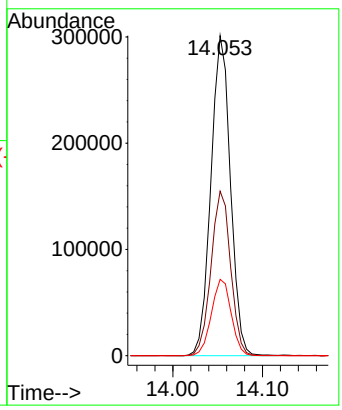


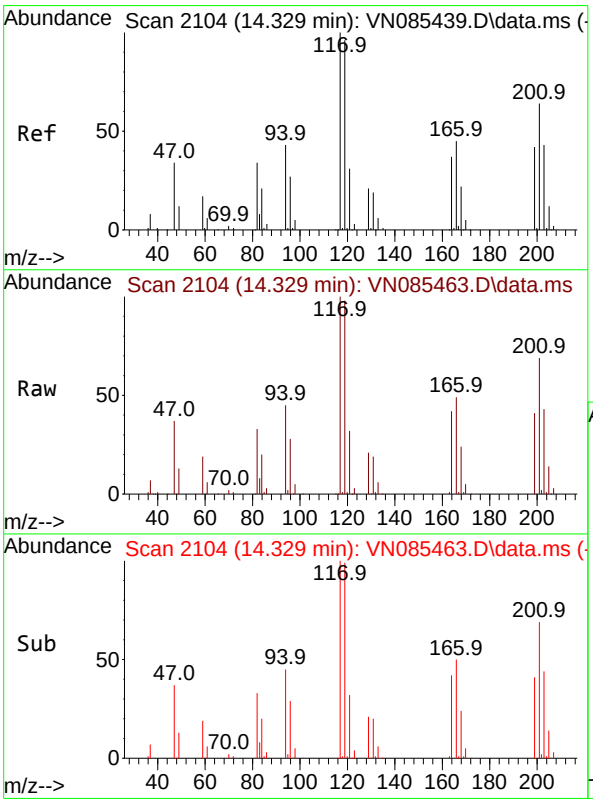
#89
n-Butylbenzene
Concen: 58.802 ug/l
RT: 14.053 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 455243

Ion	Ratio	Lower	Upper
91	100		
92	51.7	25.8	77.3
134	24.2	11.7	35.1

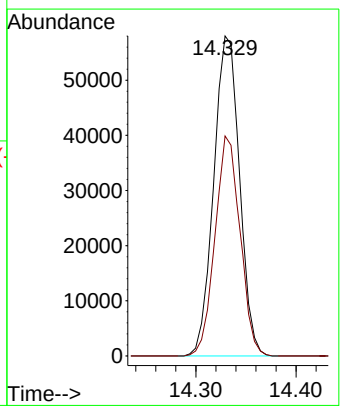


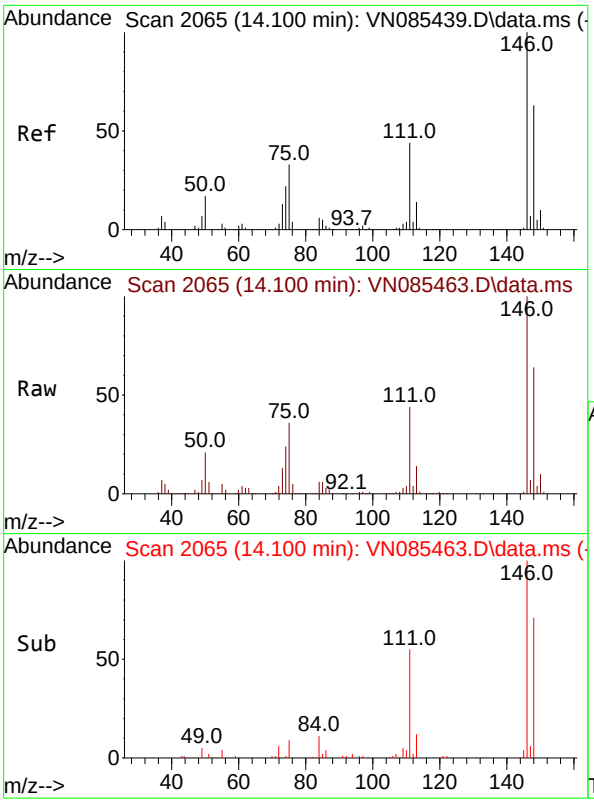


#90
Hexachloroethane
Concen: 50.491 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion:117 Resp: 103728

Ion	Ratio	Lower	Upper
117	100		
201	66.7	33.7	101.0



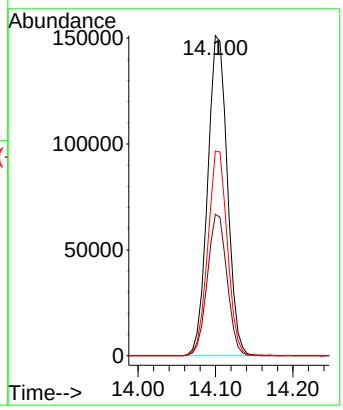


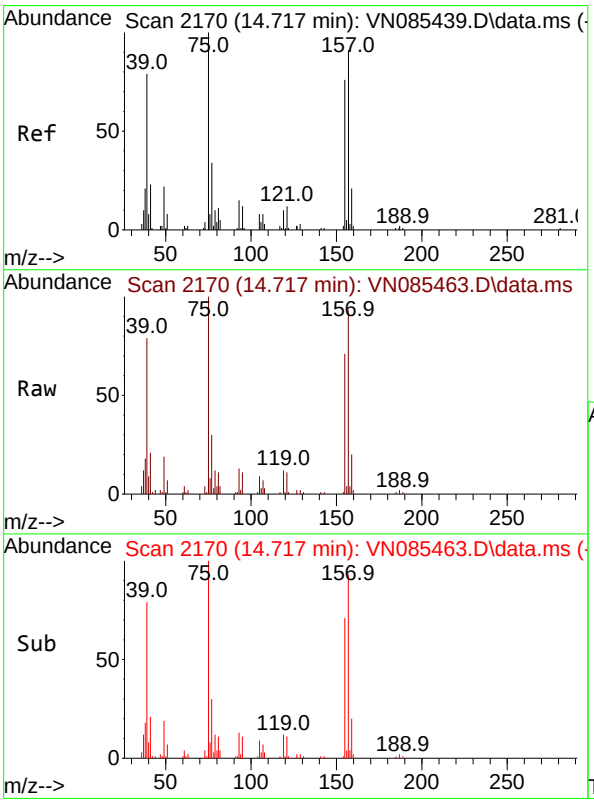
#91
1,2-Dichlorobenzene
Concen: 49.494 ug/l
RT: 14.100 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:146 Resp: 266635

Ion	Ratio	Lower	Upper
146	100		
111	44.1	21.7	65.1
148	63.3	31.4	94.2

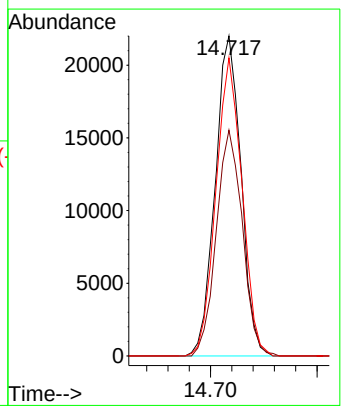


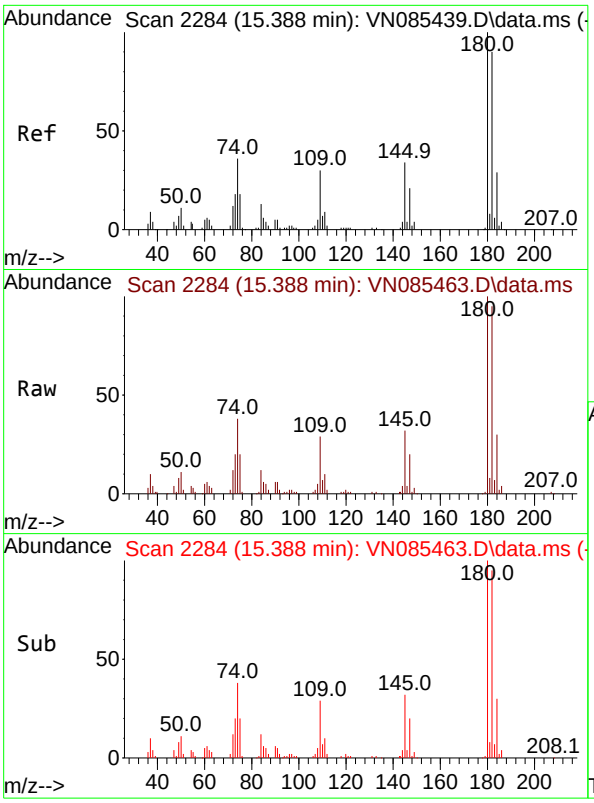


#92
1,2-Dibromo-3-Chloropropane
Concen: 51.081 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion: 75 Resp: 36986

Ion	Ratio	Lower	Upper
75	100		
155	71.4	36.4	109.2
157	94.1	45.4	136.1



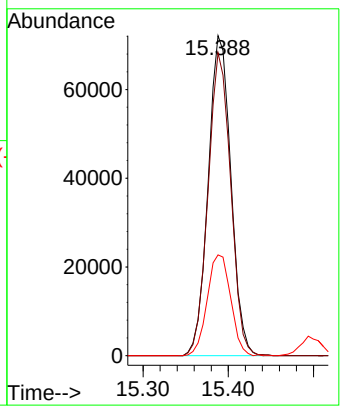


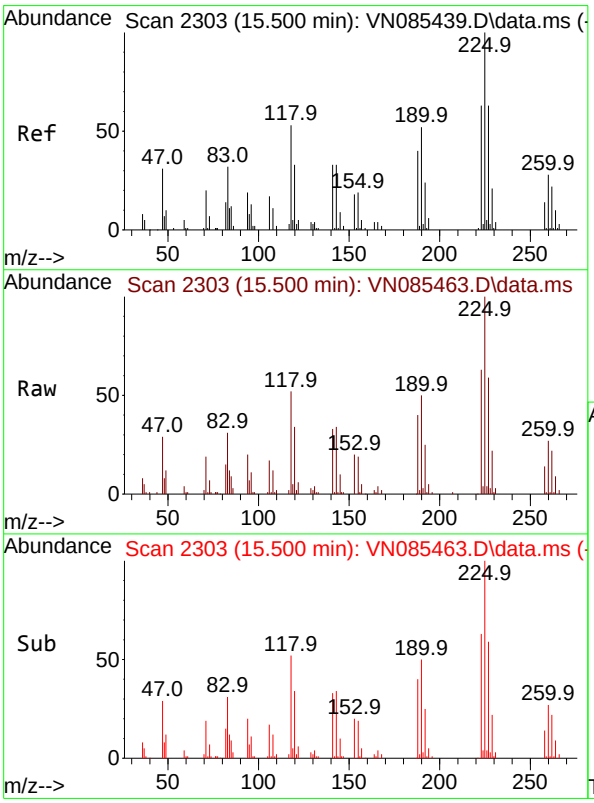
#93
1,2,4-Trichlorobenzene
Concen: 53.324 ug/l
RT: 15.388 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:180 Resp: 133515

Ion	Ratio	Lower	Upper
180	100		
182	94.2	46.8	140.3
145	32.5	16.0	48.0

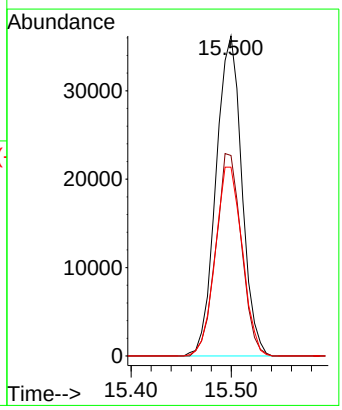


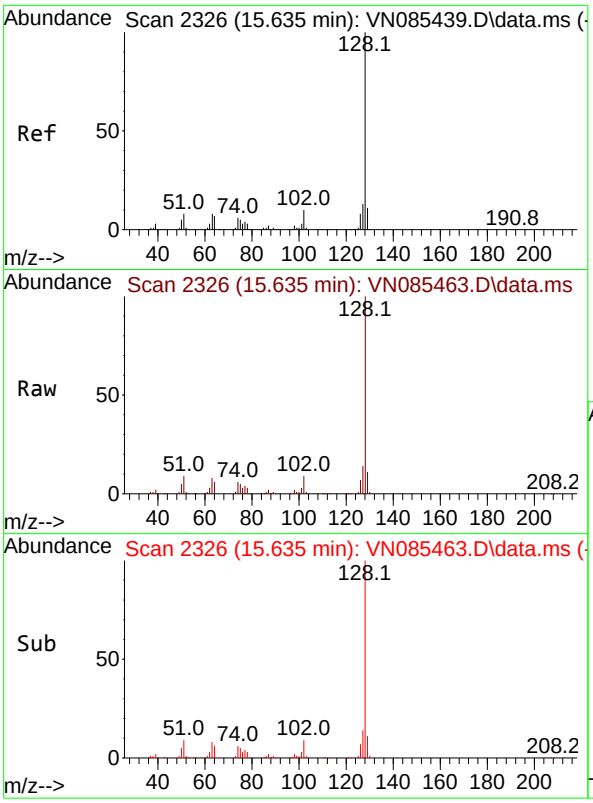


#94
Hexachlorobutadiene
Concen: 48.771 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion:225 Resp: 64832

Ion	Ratio	Lower	Upper
225	100		
223	62.7	30.7	92.1
227	61.7	30.9	92.5



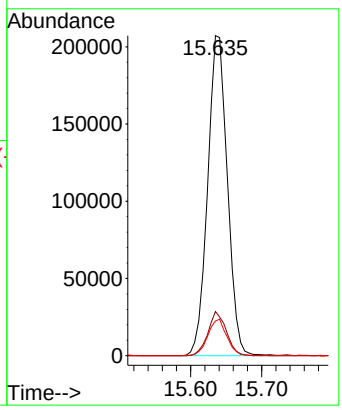


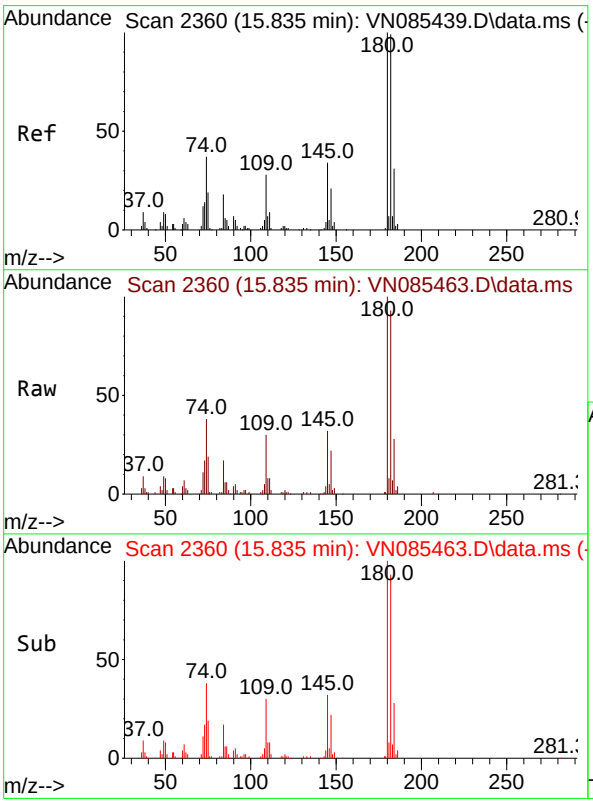
#95
Naphthalene
Concen: 53.462 ug/l
RT: 15.635 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:128 Resp: 399446

Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.6	16.0
129	11.0	8.8	13.2





#96
1,2,3-Trichlorobenzene
Concen: 50.856 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VN085463.D
Acq: 15 Jan 2025 15:58

Tgt Ion:180 Resp: 128843

Ion	Ratio	Lower	Upper
180	100		
182	93.6	47.4	142.2
145	34.0	16.9	50.7

