

**DATA PACKAGE
VOLATILE ORGANICS**

PROJECT NAME : RFP 905

**WESTON SOLUTIONS, INC.
1090 King Georges Post Road
Suite 201
Edison, NJ - 08837-3703
Phone No: 732-585-4410**

**ORDER ID : Q1664
ATTENTION : Smita Sumbaly**



Laboratory Certification ID # 20012



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Cover Page

Order ID : Q1664

Project ID : RFP 905

Client : Weston Solutions, Inc.

Lab Sample Number

Q1664-01
Q1664-02
Q1664-03
Q1664-04
Q1664-05
Q1664-06
Q1664-07
Q1664-08
Q1664-09
Q1664-10
Q1664-11
Q1664-12
Q1664-13
Q1664-14
Q1664-15
Q1664-16
Q1664-17
Q1664-18
Q1664-19
Q1664-20
Q1664-21
Q1664-22

Client Sample Number

P001-BBDGA-001-01
P001-BBDGA-001-01MS
P001-BBDGA-001-01MSD
P001-BBDGA-001-01
P001-BBDGA-001-01MS
P001-BBDGA-001-01MSD
P001-BBDGA-001-02
P001-BBDGA-001-02
P001-BBDGA-002-01
P001-BBDGA-002-01
P001-BBDGA-003-01
P001-BBDGA-003-01
P001-BBDGA-004-01
P001-BBDGA-004-01
P001-BBDGA-005-01
P001-BBDGA-005-01
P001-BBDGA-006-01
P001-BBDGA-006-01
P001-BBDGA-007-01
P001-BBDGA-007-01
P001-BBDGA-008-01
P001-BBDGA-008-01

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

Signature : _____

Date: 4/4/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

Weston Solutions, Inc.

Project Name: RFP 905

Project # N/A

Chemtech Project # Q1664

Test Name: SPLP VOA

A. Number of Samples and Date of Receipt:

22 Solid samples were received on 03/27/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: Cyanide, EPH, Mercury, Metals ICP-TAL, METALS TAL+CN, PCB, Pesticide-TCL, SPLP BNA, SPLP Cyanide, SPLP Extraction, SPLP ICP Metals, SPLP Mercury, SPLP PCB, SPLP Pesticide, SPLP VOA, SPLP ZHE Ext, SVOC-TCL BNA -20 and VOC-TCLVOA-10. This data package contains results for SPLP VOA.

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 SPLP VOA 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 MS {Q1664-05MS} with File ID: VN086163.D recoveries met the requirements for all compounds except for 1,1,2,2-Tetrachloroethane[33%], due to matrix interference.

The MSD {Q1664-06MSD} with File ID: VN086164.D recoveries met the acceptable requirements except for 1,1,2,2-Tetrachloroethane[35%] and Tetrachloroethene[161%], due to matrix interference.

The RPD for {Q1664-06MSD} with File ID: VN086164.D met criteria except for Bromomethane[32%], due to difference in results of MS and MSD.

The Blank Spike 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 File ID VN086140.D met the requirements except for 2-Hexanone and 4-Methyl-2-Pentanone, are failing high but no positive hit in associate samples therefore no corrective action taken.
The Tuning criteria met requirements.

E. Calculation:

Water Calculation in ug/L

$$\frac{(A_x)(I_s)(Df)}{(A_{is})(RRF)(V_0)}$$

Where,

A_x = Area for the compound to be measured

A_{is} = Area for the specific internal standard

I_s = Amount of internal standard added in nanograms (ng)

RRF = Relative response factor of the initial calibration curve standard.

V_o = Volume of water purged in milliliters (mL)

Df = Dilution factor.

F. Additional Comments:

Trip Blank was not provided with this set of samples.

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.

G. 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_____

DATA REPORTING QUALIFIERS- ORGANIC

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

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

GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: Q1664

MATRIX: Solid

METHOD: 8260D

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications BFB Meet Criteria (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements. The Initial Calibration met the requirements. The Continuous Calibration File ID VN086140.D met the requirements except for 2- Hexanone and 4-Methyl-2-Pentanone,are failing high but no positive hit in associate samples therefore no corrective action taken.		✓	
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
7.	Surrogate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			✓
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range. The MS {Q1664-05MS} with File ID: VN086163.D recoveries met the requirements for all compounds except for 1,1,2,2-Tetrachloroethane[33%],due to matrix interference. The MSD {Q1664-06MSD} with File ID: VN086164.D recoveries met the acceptable requirements except for 1,1,2,2-Tetrachloroethane[35%] and Tetrachloroethene[161%],due to matrix interference. The RPD for {Q1664-06MSD} with File ID: VN086164.D met criteria except for Bromomethane[32%],due to difference in results of MS and MSD. The Blank Spike recoveries met the acceptable requirements .		✓	

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

		NA	NO	YES
9.	Internal Standard Area/Retention Time Shift Meet Criteria			✓
	Comments:			
10.	Analysis Holding Time Met			✓
	If not met, list number of days exceeded for each sample:			

ADDITIONAL COMMENTS:

Trip Blank was not provided with this set of samples.

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.

QA REVIEW

Date

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1664

Completed

For thorough review, the report must have the following:

GENERAL:

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

✓

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

✓

Is the chain of custody signed and complete

✓

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

✓

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

✓

COVER PAGE:

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

✓

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

✓

CHAIN OF CUSTODY:

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

✓

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

✓

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

✓

Were the samples received within hold time

✓

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

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: MOHAMMAD AHMED

Date: 04/04/2025

LAB CHRONICLE

OrderID:	Q1664	OrderDate:	3/27/2025 10:47:00 AM
Client:	Weston Solutions, Inc.	Project:	RFP 905
Contact:	Smita Sumbaly	Location:	I31,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1664-01	P001-BBDGA-001-01	SOIL	VOC-TCLVOA-10	8260D	03/26/25		03/28/25	03/27/25
Q1664-04	P001-BBDGA-001-01	Water	SPLP VOA	8260D	03/26/25		03/28/25	03/27/25
Q1664-07	P001-BBDGA-001-02	SOIL	VOC-TCLVOA-10	8260D	03/26/25		03/28/25	03/27/25
Q1664-08	P001-BBDGA-001-02	Water	SPLP VOA	8260D	03/26/25		03/28/25	03/27/25
Q1664-09	P001-BBDGA-002-01	SOIL	VOC-TCLVOA-10	8260D	03/26/25		03/28/25	03/27/25
Q1664-10	P001-BBDGA-002-01	Water	SPLP VOA	8260D	03/26/25		03/28/25	03/27/25
Q1664-11	P001-BBDGA-003-01	SOIL	VOC-TCLVOA-10	8260D	03/26/25		03/28/25	03/27/25
Q1664-12	P001-BBDGA-003-01	Water	SPLP VOA	8260D	03/26/25		03/28/25	03/27/25
Q1664-13	P001-BBDGA-004-01	SOIL	VOC-TCLVOA-10	8260D	03/26/25		03/28/25	03/27/25
Q1664-14	P001-BBDGA-004-01	Water	SPLP VOA	8260D	03/26/25		03/28/25	03/27/25
Q1664-15	P001-BBDGA-005-01	SOIL	VOC-TCLVOA-10	8260D	03/26/25		03/28/25	03/27/25
Q1664-16	P001-BBDGA-005-01	Water			03/26/25			03/27/25

LAB CHRONICLE

			SPLP VOA	8260D		03/28/25	
Q1664-17	P001-BBDGA-006-01	SOIL			03/26/25		03/27/25
			VOC-TCLVOA-10	8260D		03/28/25	
Q1664-18	P001-BBDGA-006-01	Water			03/26/25		03/27/25
			SPLP VOA	8260D		03/28/25	
Q1664-19	P001-BBDGA-007-01	SOIL			03/26/25		03/27/25
			VOC-TCLVOA-10	8260D		03/28/25	
Q1664-20	P001-BBDGA-007-01	Water			03/26/25		03/27/25
			SPLP VOA	8260D		03/28/25	
Q1664-21	P001-BBDGA-008-01	SOIL			03/26/25		03/27/25
			VOC-TCLVOA-10	8260D		03/28/25	
Q1664-22	P001-BBDGA-008-01	Water			03/26/25		03/27/25
			SPLP VOA	8260D		03/28/25	

Hit Summary Sheet
SW-846

SDG No.: Q1664
Client: Weston Solutions, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	P001-BBDGA-001-01							
Q1664-04	P001-BBDGA-001- WATER	Acetone		22.8	J	1.50	25.0	ug/L
Q1664-04	P001-BBDGA-001- WATER	Methylene Chloride		3.60	J	0.28	5.00	ug/L
		Total Voc :		26.4				
		Total Concentration:		26.4				
Client ID:	P001-BBDGA-001-02							
Q1664-08	P001-BBDGA-001- WATER	Acetone		16.2	J	1.50	25.0	ug/L
Q1664-08	P001-BBDGA-001- WATER	Methylene Chloride		3.80	J	0.28	5.00	ug/L
		Total Voc :		20.0				
		Total Concentration:		20.0				
Client ID:	P001-BBDGA-002-01							
Q1664-10	P001-BBDGA-002- WATER	Acetone		21.5	J	1.50	25.0	ug/L
Q1664-10	P001-BBDGA-002- WATER	Methylene Chloride		3.90	J	0.28	5.00	ug/L
		Total Voc :		25.4				
		Total Concentration:		25.4				
Client ID:	P001-BBDGA-003-01							
Q1664-12	P001-BBDGA-003- WATER	Acetone		16.4	J	1.50	25.0	ug/L
Q1664-12	P001-BBDGA-003- WATER	Methylene Chloride		3.70	J	0.28	5.00	ug/L
		Total Voc :		20.1				
		Total Concentration:		20.1				
Client ID:	P001-BBDGA-004-01							
Q1664-14	P001-BBDGA-004- WATER	Acetone		15.3	J	1.50	25.0	ug/L
Q1664-14	P001-BBDGA-004- WATER	Methylene Chloride		3.60	J	0.28	5.00	ug/L
		Total Voc :		18.9				
		Total Concentration:		18.9				
Client ID:	P001-BBDGA-005-01							
Q1664-16	P001-BBDGA-005- WATER	Acetone		14.9	J	1.50	25.0	ug/L
Q1664-16	P001-BBDGA-005- WATER	Methylene Chloride		3.30	J	0.28	5.00	ug/L
		Total Voc :		18.2				
		Total Concentration:		18.2				
Client ID:	P001-BBDGA-006-01							
Q1664-18	P001-BBDGA-006- WATER	Acetone		15.5	J	1.50	25.0	ug/L
Q1664-18	P001-BBDGA-006- WATER	Methylene Chloride		3.50	J	0.28	5.00	ug/L
		Total Voc :		19.0				
		Total Concentration:		19.0				
Client ID:	P001-BBDGA-007-01							
Q1664-20	P001-BBDGA-007- WATER	Acetone		15.7	J	1.50	25.0	ug/L
Q1664-20	P001-BBDGA-007- WATER	Methylene Chloride		3.80	J	0.28	5.00	ug/L
		Total Voc :		19.5				
		Total Concentration:		19.5				
Client ID:	P001-BBDGA-008-01							

Hit Summary Sheet
SW-846

SDG No.: Q1664

Client: Weston Solutions, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q1664-22	P001-BBDGA-008-	WATER	Acetone	21.0	J	1.50	25.0	ug/L
Q1664-22	P001-BBDGA-008-	WATER	Methylene Chloride	3.90	J	0.28	5.00	ug/L
Total Voc :				24.9				
Total Concentration:				24.9				



QC SUMMARY

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Surrogate Summary

SDG No.: **Q1664**

Client: **Weston Solutions, Inc.**

Analytical Method: **SW8260D**

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
Q1664-04	P001-BBDGA-001-01	1,2-Dichloroethane-d4	50	57.4	115	74	125
		Dibromofluoromethane	50	53.5	107	75	124
		Toluene-d8	50	49.0	98	86	113
		4-Bromofluorobenzene	50	44.8	90	77	121
Q1664-05MS	P001-BBDGA-001-01MS	1,2-Dichloroethane-d4	50	43.8	88	74	125
		Dibromofluoromethane	50	39.0	78	75	124
		Toluene-d8	50	48.1	96	86	113
		4-Bromofluorobenzene	50	50.6	101	77	121
Q1664-06MSD	P001-BBDGA-001-01MSD	1,2-Dichloroethane-d4	50	48.4	97	74	125
		Dibromofluoromethane	50	41.4	83	75	124
		Toluene-d8	50	51.8	104	86	113
		4-Bromofluorobenzene	50	52.6	105	77	121
Q1664-08	P001-BBDGA-001-02	1,2-Dichloroethane-d4	50	57.8	116	74	125
		Dibromofluoromethane	50	52.3	105	75	124
		Toluene-d8	50	47.2	94	86	113
		4-Bromofluorobenzene	50	42.6	85	77	121
Q1664-10	P001-BBDGA-002-01	1,2-Dichloroethane-d4	50	56.8	114	74	125
		Dibromofluoromethane	50	53.4	107	75	124
		Toluene-d8	50	48.4	97	86	113
		4-Bromofluorobenzene	50	44.3	89	77	121
Q1664-12	P001-BBDGA-003-01	1,2-Dichloroethane-d4	50	56.5	113	74	125
		Dibromofluoromethane	50	52.2	104	75	124
		Toluene-d8	50	48.0	96	86	113
		4-Bromofluorobenzene	50	44.0	88	77	121
Q1664-14	P001-BBDGA-004-01	1,2-Dichloroethane-d4	50	57.6	115	74	125
		Dibromofluoromethane	50	53.5	107	75	124
		Toluene-d8	50	48.6	97	86	113
		4-Bromofluorobenzene	50	45.5	91	77	121
Q1664-16	P001-BBDGA-005-01	1,2-Dichloroethane-d4	50	57.3	115	74	125
		Dibromofluoromethane	50	52.8	106	75	124
		Toluene-d8	50	49.0	98	86	113
		4-Bromofluorobenzene	50	45.4	91	77	121
Q1664-18	P001-BBDGA-006-01	1,2-Dichloroethane-d4	50	59.0	118	74	125
		Dibromofluoromethane	50	52.9	106	75	124
		Toluene-d8	50	48.1	96	86	113
		4-Bromofluorobenzene	50	45.0	90	77	121
Q1664-20	P001-BBDGA-007-01	1,2-Dichloroethane-d4	50	59.2	118	74	125
		Dibromofluoromethane	50	54.1	108	75	124
		Toluene-d8	50	49.2	98	86	113
		4-Bromofluorobenzene	50	47.0	94	77	121
Q1664-22	P001-BBDGA-008-01	1,2-Dichloroethane-d4	50	58.7	117	74	125
		Dibromofluoromethane	50	54.5	109	75	124
		Toluene-d8	50	49.5	99	86	113
		4-Bromofluorobenzene	50	45.8	92	77	121

Surrogate Summary

SDG No.: Q1664

Client: Weston Solutions, Inc.

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
VN0328WBL01	VN0328WBL01	1,2-Dichloroethane-d4	50	57.5	115	74	125
		Dibromofluoromethane	50	54.0	108	75	124
		Toluene-d8	50	48.0	96	86	113
		4-Bromofluorobenzene	50	41.9	84	77	121
VN0328WBS01	VN0328WBS01	1,2-Dichloroethane-d4	50	51.0	102	74	125
		Dibromofluoromethane	50	52.6	105	75	124
		Toluene-d8	50	54.8	110	86	113
		4-Bromofluorobenzene	50	51.7	103	77	121

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1664

Client: Weston Solutions, Inc.

Analytical Method: SW8260D

Parameter	Spike	Sample	Result	Units	Rec		RPD	RPD	Limits		RPD
		Result			Qual	Qual		Low	High		
Lab Sample ID :	Q1664-05MS	Client Sample ID :	P001-BBDGA-001-01MS					Datafile :	VN086163.D		
Dichlorodifluoromethane	50	0	39.3	ug/L	79				73	120	
Chloromethane	50	0	42.8	ug/L	86				58	133	
Vinyl chloride	50	0	41.2	ug/L	82				69	125	
Bromomethane	50	0	31.9	ug/L	64				28	165	
Chloroethane	50	0	34.8	ug/L	70				70	141	
Trichlorofluoromethane	50	0	41.3	ug/L	83				72	124	
1,1,2-Trichlorotrifluoroethane	50	0	45.3	ug/L	91				75	117	
1,1-Dichloroethene	50	0	45.9	ug/L	92				53	162	
Acetone	250	22.8	260	ug/L	95				44	150	
Carbon disulfide	50	0	38.7	ug/L	77				44	135	
Methyl tert-butyl Ether	50	0	45.8	ug/L	92				82	133	
Methyl Acetate	50	0	54.6	ug/L	109				76	138	
Methylene Chloride	50	3.60	49.3	ug/L	91				79	115	
trans-1,2-Dichloroethene	50	0	46.2	ug/L	92				76	118	
1,1-Dichloroethane	50	0	46.5	ug/L	93				78	122	
Cyclohexane	50	0	46.5	ug/L	93				71	119	
2-Butanone	250	0	240	ug/L	96				67	137	
Carbon Tetrachloride	50	0	44.3	ug/L	89				66	133	
cis-1,2-Dichloroethene	50	0	47.5	ug/L	95				82	124	
Bromochloromethane	50	0	51.5	ug/L	103				72	130	
Chloroform	50	0	46.3	ug/L	93				83	119	
1,1,1-Trichloroethane	50	0	44.0	ug/L	88				83	117	
Methylcyclohexane	50	0	47.3	ug/L	95				64	120	
Benzene	50	0	48.7	ug/L	97				81	128	
1,2-Dichloroethane	50	0	44.1	ug/L	88				76	120	
Trichloroethene	50	0	64.9	ug/L	130				28	175	
1,2-Dichloropropane	50	0	51.6	ug/L	103				85	116	
Bromodichloromethane	50	0	47.4	ug/L	95				54	157	
4-Methyl-2-Pentanone	250	0	250	ug/L	100				72	137	
Toluene	50	0	50.5	ug/L	101				85	115	
t-1,3-Dichloropropene	50	0	45.7	ug/L	91				60	141	
cis-1,3-Dichloropropene	50	0	48.0	ug/L	96				36	161	
1,1,2-Trichloroethane	50	0	50.7	ug/L	101				27	175	
2-Hexanone	250	0	260	ug/L	104				75	131	
Dibromochloromethane	50	0	47.9	ug/L	96				59	164	
1,2-Dibromoethane	50	0	47.3	ug/L	95				85	119	
Tetrachloroethene	50	0	73.3	ug/L	147				48	153	
Chlorobenzene	50	0	46.7	ug/L	93				85	114	
Ethyl Benzene	50	0	49.9	ug/L	100				81	128	
m/p-Xylenes	100	0	100	ug/L	100				69	129	
o-Xylene	50	0	52.8	ug/L	106				75	127	
Styrene	50	0	53.2	ug/L	106				84	128	
Bromoform	50	0	44.6	ug/L	89				73	147	
Isopropylbenzene	50	0	47.5	ug/L	95				76	121	
1,1,2,2-Tetrachloroethane	50	0	16.7	ug/L	33	*			81	131	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1664

Client: Weston Solutions, Inc.

Analytical Method: SW8260D

Parameter	Spike	Sample	Result	Units	Rec			RPD	Limits		
		Result			Rec	Qual	RPD	Qual	Low	High	RPD
1,3-Dichlorobenzene	50	0	46.5	ug/L	93					84	110
1,4-Dichlorobenzene	50	0	44.0	ug/L	88					81	111
1,2-Dichlorobenzene	50	0	45.4	ug/L	91					82	113
1,2-Dibromo-3-Chloropropane	50	0	40.9	ug/L	82					79	137
1,2,4-Trichlorobenzene	50	0	42.3	ug/L	85					73	120
1,2,3-Trichlorobenzene	50	0	44.1	ug/L	88					75	119

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1664

Client: Weston Solutions, Inc.

Analytical Method: SW8260D

Limits											
Parameter	Spike	Sample	Result	Units	Rec		RPD	RPD		RPD	
		Result			Qual	Qual		Low	High		
Lab Sample ID :	Q1664-06MSD	Client Sample ID :	P001-BBDGA-001-01MSD					Datafile :	VN086164.D		
Dichlorodifluoromethane	50	0	45.5	ug/L	91		15		73	120	20
Chloromethane	50	0	47.5	ug/L	95		10		58	133	20
Vinyl chloride	50	0	48.2	ug/L	96		16		69	125	20
Bromomethane	50	0	43.9	ug/L	88		32	*	28	165	20
Chloroethane	50	0	40.5	ug/L	81		15		70	141	20
Trichlorofluoromethane	50	0	39.6	ug/L	79		4		72	124	20
1,1,2-Trichlorotrifluoroethane	50	0	50.6	ug/L	101		11		75	117	20
1,1-Dichloroethene	50	0	53.6	ug/L	107		15		53	162	20
Acetone	250	22.8	290	ug/L	107		12		44	150	20
Carbon disulfide	50	0	44.0	ug/L	88		13		44	135	20
Methyl tert-butyl Ether	50	0	52.5	ug/L	105		14		82	133	20
Methyl Acetate	50	0	63.4	ug/L	127		15		76	138	20
Methylene Chloride	50	3.60	54.9	ug/L	103		12		79	115	20
trans-1,2-Dichloroethene	50	0	52.0	ug/L	104		12		76	118	20
1,1-Dichloroethane	50	0	52.4	ug/L	105		12		78	122	20
Cyclohexane	50	0	51.9	ug/L	104		11		71	119	20
2-Butanone	250	0	270	ug/L	108		12		67	137	20
Carbon Tetrachloride	50	0	49.3	ug/L	99		11		66	133	20
cis-1,2-Dichloroethene	50	0	54.2	ug/L	108		13		82	124	20
Bromochloromethane	50	0	55.4	ug/L	111		7		72	130	20
Chloroform	50	0	51.6	ug/L	103		11		83	119	20
1,1,1-Trichloroethane	50	0	49.7	ug/L	99		12		83	117	20
Methylcyclohexane	50	0	53.8	ug/L	108		13		64	120	20
Benzene	50	0	53.8	ug/L	108		10		81	128	20
1,2-Dichloroethane	50	0	48.7	ug/L	97		10		76	120	20
Trichloroethene	50	0	73.7	ug/L	147		13		28	175	20
1,2-Dichloropropane	50	0	56.5	ug/L	113		9		85	116	20
Bromodichloromethane	50	0	52.2	ug/L	104		10		54	157	20
4-Methyl-2-Pentanone	250	0	280	ug/L	112		11		72	137	20
Toluene	50	0	56.3	ug/L	113		11		85	115	20
t-1,3-Dichloropropene	50	0	52.5	ug/L	105		14		60	141	20
cis-1,3-Dichloropropene	50	0	53.6	ug/L	107		11		36	161	20
1,1,2-Trichloroethane	50	0	54.6	ug/L	109		7		27	175	20
2-Hexanone	250	0	290	ug/L	116		11		75	131	20
Dibromochloromethane	50	0	52.6	ug/L	105		9		59	164	20
1,2-Dibromoethane	50	0	53.1	ug/L	106		12		85	119	20
Tetrachloroethene	50	0	80.7	ug/L	161	*	10		48	153	20
Chlorobenzene	50	0	50.8	ug/L	102		8		85	114	20
Ethyl Benzene	50	0	54.3	ug/L	109		8		81	128	20
m/p-Xylenes	100	0	110	ug/L	110		10		69	129	20
o-Xylene	50	0	57.2	ug/L	114		8		75	127	20
Styrene	50	0	57.4	ug/L	115		8		84	128	20
Bromoform	50	0	48.2	ug/L	96		8		73	147	20
Isopropylbenzene	50	0	51.5	ug/L	103		8		76	121	20
1,1,2,2-Tetrachloroethane	50	0	17.7	ug/L	35	*	6		81	131	20

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1664

Client: Weston Solutions, Inc.

Analytical Method: SW8260D

Parameter	Spike	Sample Result	Result	Units	Rec			RPD	Limits		
					Rec	Qual	RPD	Qual	Low	High	RPD
1,3-Dichlorobenzene	50	0	50.3	ug/L	101		8		84	110	20
1,4-Dichlorobenzene	50	0	47.5	ug/L	95		8		81	111	20
1,2-Dichlorobenzene	50	0	48.6	ug/L	97		7		82	113	20
1,2-Dibromo-3-Chloropropane	50	0	44.3	ug/L	89		8		79	137	20
1,2,4-Trichlorobenzene	50	0	47.5	ug/L	95		12		73	120	20
1,2,3-Trichlorobenzene	50	0	49.9	ug/L	100		12		75	119	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1664

Client: Weston Solutions, Inc.

Analytical Method: SW8260-Low

Datafile : VN086143.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN0328WBS01	Dichlorodifluoromethane	20	16.9	ug/L	85			69	116	
	Chloromethane	20	19.4	ug/L	97			65	116	
	Vinyl chloride	20	20.7	ug/L	104			65	117	
	Bromomethane	20	19.5	ug/L	98			58	125	
	Chloroethane	20	20.8	ug/L	104			56	128	
	Trichlorofluoromethane	20	18.1	ug/L	91			73	115	
	1,1,2-Trichlorotrifluoroethane	20	19.7	ug/L	99			80	112	
	1,1-Dichloroethene	20	19.4	ug/L	97			74	110	
	Acetone	100	89.1	ug/L	89			60	125	
	Carbon disulfide	20	16.6	ug/L	83			64	112	
	Methyl tert-butyl Ether	20	18.4	ug/L	92			78	114	
	Methyl Acetate	20	22.4	ug/L	112			67	125	
	Methylene Chloride	20	19.8	ug/L	99			72	114	
	trans-1,2-Dichloroethene	20	19.2	ug/L	96			75	108	
	1,1-Dichloroethane	20	20.2	ug/L	101			78	112	
	Cyclohexane	20	19.5	ug/L	98			75	110	
	2-Butanone	100	94.4	ug/L	94			65	122	
	Carbon Tetrachloride	20	19.1	ug/L	96			77	113	
	cis-1,2-Dichloroethene	20	19.3	ug/L	97			77	110	
	Bromochloromethane	20	19.9	ug/L	100			70	124	
	Chloroform	20	20.0	ug/L	100			79	113	
	1,1,1-Trichloroethane	20	19.1	ug/L	96			80	108	
	Methylcyclohexane	20	17.7	ug/L	89			72	115	
	Benzene	20	20.3	ug/L	102			82	109	
	1,2-Dichloroethane	20	19.0	ug/L	95			80	115	
	Trichloroethene	20	18.5	ug/L	93			77	113	
	1,2-Dichloropropane	20	21.2	ug/L	106			83	111	
	Bromodichloromethane	20	20.1	ug/L	101			83	110	
	4-Methyl-2-Pentanone	100	100	ug/L	100			74	118	
	Toluene	20	20.8	ug/L	104			82	110	
	t-1,3-Dichloropropene	20	19.1	ug/L	96			79	110	
	cis-1,3-Dichloropropene	20	20.5	ug/L	103			82	110	
	1,1,2-Trichloroethane	20	21.4	ug/L	107			83	112	
	2-Hexanone	100	100	ug/L	100			73	117	
	Dibromochloromethane	20	19.8	ug/L	99			82	110	
	1,2-Dibromoethane	20	19.6	ug/L	98			81	110	
	Tetrachloroethene	20	20.2	ug/L	101			67	123	
	Chlorobenzene	20	19.2	ug/L	96			82	109	
	Ethyl Benzene	20	19.5	ug/L	98			83	109	
	m/p-Xylenes	40	40.6	ug/L	102			82	110	
	o-Xylene	20	20.0	ug/L	100			83	109	
	Styrene	20	20.0	ug/L	100			80	111	
	Bromoform	20	18.8	ug/L	94			79	109	
	Isopropylbenzene	20	18.8	ug/L	94			83	112	
	1,1,2,2-Tetrachloroethane	20	18.8	ug/L	94			76	118	
	1,3-Dichlorobenzene	20	19.1	ug/L	96			82	108	
	1,4-Dichlorobenzene	20	17.8	ug/L	89			82	107	
	1,2-Dichlorobenzene	20	18.7	ug/L	94			82	109	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1664

Client: Weston Solutions, Inc.

Analytical Method: SW8260-Low

Datafile : VN086143.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN0328WBS01	1,2-Dibromo-3-Chloropropane	20	16.8	ug/L	84			68	112	
	1,2,4-Trichlorobenzene	20	15.5	ug/L	78			75	113	
	1,2,3-Trichlorobenzene	20	16.5	ug/L	83			76	114	

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN0328WBL01

Lab Name: CHEMTECH

Contract: ROYF02

Lab Code: CHEM Case No.: Q1664

SAS No.: Q1664 SDG NO.: Q1664

Lab File ID: VN086142.D

Lab Sample ID: VN0328WBL01

Date Analyzed: 03/28/2025

Time Analyzed: 11:43

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
VN0328WBS01	VN0328WBS01	VN086143.D	03/28/2025
P001-BBDGA-001-02	Q1664-08	VN086153.D	03/28/2025
P001-BBDGA-002-01	Q1664-10	VN086154.D	03/28/2025
P001-BBDGA-003-01	Q1664-12	VN086155.D	03/28/2025
P001-BBDGA-004-01	Q1664-14	VN086156.D	03/28/2025
P001-BBDGA-005-01	Q1664-16	VN086157.D	03/28/2025
P001-BBDGA-006-01	Q1664-18	VN086158.D	03/28/2025
P001-BBDGA-007-01	Q1664-20	VN086159.D	03/28/2025
P001-BBDGA-008-01	Q1664-22	VN086160.D	03/28/2025
P001-BBDGA-001-01	Q1664-04	VN086162.D	03/28/2025
P001-BBDGA-001-01MS	Q1664-05MS	VN086163.D	03/28/2025
P001-BBDGA-001-01MSD	Q1664-06MSD	VN086164.D	03/28/2025

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: ROYF02
Lab Code: CHEM Case No.: Q1664 SAS No.: Q1664 SDG NO.: Q1664
Lab File ID: VN085994.D BFB Injection Date: 03/18/2025
Instrument ID: MSVOA_N BFB Injection Time: 08:52
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	15.2
75	30.0 - 60.0% of mass 95	52.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.6 (0.7) 1
174	50.0 - 100.0% of mass 95	87.1
175	5.0 - 9.0% of mass 174	6.7 (7.7) 1
176	95.0 - 101.0% of mass 174	83.7 (96.2) 1
177	5.0 - 9.0% of mass 176	5.4 (6.4) 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	VN085996.D	03/18/2025	11:44
VSTDICCC050	VSTDICCC050	VN085997.D	03/18/2025	12:08
VSTDICC020	VSTDICC020	VN085998.D	03/18/2025	12:32
VSTDICC010	VSTDICC010	VN085999.D	03/18/2025	12:57
VSTDICC005	VSTDICC005	VN086000.D	03/18/2025	13:21
VSTDICC001	VSTDICC001	VN086001.D	03/18/2025	14:09



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: ROYF02
Lab Code: CHEM Case No.: Q1664 SAS No.: Q1664 SDG NO.: Q1664
Lab File ID: VN086139.D BFB Injection Date: 03/28/2025
Instrument ID: MSVOA_N BFB Injection Time: 10:11
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	15.4
75	30.0 - 60.0% of mass 95	49.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	1.4 (1.6) 1
174	50.0 - 100.0% of mass 95	88
175	5.0 - 9.0% of mass 174	6.9 (7.8) 1
176	95.0 - 101.0% of mass 174	83.6 (95) 1
177	5.0 - 9.0% of mass 176	5.9 (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
VSTDCCC050	VSTDCCC050	VN086140.D	03/28/2025	10:44
VN0328WBL01	VN0328WBL01	VN086142.D	03/28/2025	11:43
VN0328WBS01	VN0328WBS01	VN086143.D	03/28/2025	12:07
P001-BBDGA-001-02	Q1664-08	VN086153.D	03/28/2025	16:18
P001-BBDGA-002-01	Q1664-10	VN086154.D	03/28/2025	16:42
P001-BBDGA-003-01	Q1664-12	VN086155.D	03/28/2025	17:06
P001-BBDGA-004-01	Q1664-14	VN086156.D	03/28/2025	17:30
P001-BBDGA-005-01	Q1664-16	VN086157.D	03/28/2025	17:54
P001-BBDGA-006-01	Q1664-18	VN086158.D	03/28/2025	18:18
P001-BBDGA-007-01	Q1664-20	VN086159.D	03/28/2025	18:42
P001-BBDGA-008-01	Q1664-22	VN086160.D	03/28/2025	19:06
P001-BBDGA-001-01	Q1664-04	VN086162.D	03/28/2025	19:54
P001-BBDGA-001-01MS	Q1664-05MS	VN086163.D	03/28/2025	20:18
P001-BBDGA-001-01MSD	Q1664-06MSD	VN086164.D	03/28/2025	20:42

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: ROYF02
Lab Code: CHEM Case No.: Q1664 SAS No.: Q1664 SDG NO.: Q1664
Lab File ID: VN086140.D Date Analyzed: 03/28/2025
Instrument ID: MSVOA_N Time Analyzed: 10:44
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	218266	8.22	341726	9.10	321573	11.87
UPPER LIMIT	436532	8.724	683452	9.6	643146	12.365
LOWER LIMIT	109133	7.724	170863	8.6	160787	11.365
EPA SAMPLE NO.						
P001-BBDGA-001-01	168040	8.22	312295	9.10	285241	11.87
P001-BBDGA-001-01MS	227713	8.22	361019	9.10	325952	11.87
P001-BBDGA-001-01MSD	211032	8.22	339619	9.10	311913	11.87
P001-BBDGA-001-02	169934	8.22	326263	9.10	284406	11.87
P001-BBDGA-002-01	175001	8.22	326640	9.10	298386	11.87
P001-BBDGA-003-01	180078	8.22	340614	9.10	305275	11.87
P001-BBDGA-004-01	176706	8.22	334362	9.10	305366	11.87
P001-BBDGA-005-01	178122	8.22	334940	9.10	306507	11.87
P001-BBDGA-006-01	171958	8.22	329552	9.10	299256	11.87
P001-BBDGA-007-01	167744	8.22	321208	9.10	300008	11.87
P001-BBDGA-008-01	175839	8.22	331090	9.10	306006	11.87
VN0328WBL01	166500	8.22	307532	9.10	270205	11.87
VN0328WBS01	239264	8.22	387346	9.10	347341	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.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: ROYF02
Lab Code: CHEM Case No.: Q1664 SAS No.: Q1664 SDG NO.: Q1664
Lab File ID: VN086140.D Date Analyzed: 03/28/2025
Instrument ID: MSVOA_N Time Analyzed: 10:44
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	177687	13.788				
UPPER LIMIT	355374	14.288				
LOWER LIMIT	88843.5	13.288				
EPA SAMPLE NO.						
P001-BBDGA-001-01	115525	13.79				
P001-BBDGA-001-01MS	170825	13.79				
P001-BBDGA-001-01MSD	165361	13.79				
P001-BBDGA-001-02	114450	13.79				
P001-BBDGA-002-01	126117	13.79				
P001-BBDGA-003-01	129139	13.79				
P001-BBDGA-004-01	129697	13.79				
P001-BBDGA-005-01	131137	13.79				
P001-BBDGA-006-01	126533	13.79				
P001-BBDGA-007-01	130900	13.79				
P001-BBDGA-008-01	130901	13.79				
VN0328WBL01	111030	13.79				
VN0328WBS01	178334	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

1
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17

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	03/26/25	
Project:	RFP 905		Date Received:	03/27/25	
Client Sample ID:	P001-BBDGA-001-01		SDG No.:	Q1664	
Lab Sample ID:	Q1664-04		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	SPLP VOA	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086162.D	1		03/28/25 19:54	VN032825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.22	U	0.22	5.00	ug/L
74-87-3	Chloromethane	0.32	U	0.32	5.00	ug/L
75-01-4	Vinyl Chloride	0.26	U	0.26	5.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.47	U	0.47	5.00	ug/L
75-69-4	Trichlorofluoromethane	0.33	U	0.33	5.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	5.00	ug/L
67-64-1	Acetone	22.8	J	1.50	25.0	ug/L
75-15-0	Carbon Disulfide	0.21	U	0.21	5.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	5.00	ug/L
79-20-9	Methyl Acetate	0.27	U	0.27	5.00	ug/L
75-09-2	Methylene Chloride	3.60	J	0.28	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.23	U	0.23	5.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	5.00	ug/L
110-82-7	Cyclohexane	1.50	U	1.50	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	5.00	ug/L
74-97-5	Bromochloromethane	0.22	U	0.22	5.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	5.00	ug/L
108-87-2	Methylcyclohexane	0.16	U	0.16	5.00	ug/L
71-43-2	Benzene	0.15	U	0.15	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	5.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	5.00	ug/L
78-87-5	1,2-Dichloropropane	0.20	U	0.20	5.00	ug/L
75-27-4	Bromodichloromethane	0.22	U	0.22	5.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.68	U	0.68	25.0	ug/L
108-88-3	Toluene	0.14	U	0.14	5.00	ug/L

Report of Analysis

Client:	Weston Solutions, Inc.			Date Collected:	03/26/25	
Project:	RFP 905			Date Received:	03/27/25	
Client Sample ID:	P001-BBDGA-001-01			SDG No.:	Q1664	
Lab Sample ID:	Q1664-04			Matrix:	Water	
Analytical Method:	SW8260			% Solid:	0	
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	SPLP VOA	
GC Column:	RXI-624	ID :	0.25	Level :	LOW	
Prep Method :						

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086162.D	1		03/28/25 19:54	VN032825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.17	U	0.17	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.16	U	0.16	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	5.00	ug/L
591-78-6	2-Hexanone	0.89	U	0.89	25.0	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	5.00	ug/L
106-93-4	1,2-Dibromoethane	0.15	U	0.15	5.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	5.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	5.00	ug/L
100-41-4	Ethyl Benzene	0.13	U	0.13	5.00	ug/L
179601-23-1	m/p-Xylenes	0.24	U	0.24	10.0	ug/L
95-47-6	o-Xylene	0.12	U	0.12	5.00	ug/L
100-42-5	Styrene	0.15	U	0.15	5.00	ug/L
75-25-2	Bromoform	0.19	U	0.19	5.00	ug/L
98-82-8	Isopropylbenzene	0.12	U	0.12	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.26	U	0.26	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.16	U	0.16	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.19	U	0.19	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.16	U	0.16	5.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	0.53	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.20	U	0.20	5.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.20	U	0.20	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	57.4		74 - 125	115%	SPK: 50
1868-53-7	Dibromofluoromethane	53.5		75 - 124	107%	SPK: 50
2037-26-5	Toluene-d8	49.0		86 - 113	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.8		77 - 121	90%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	168000	8.224			
540-36-3	1,4-Difluorobenzene	312000	9.1			
3114-55-4	Chlorobenzene-d5	285000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	116000	13.788			

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	03/26/25	
Project:	RFP 905		Date Received:	03/27/25	
Client Sample ID:	P001-BBDGA-001-01		SDG No.:	Q1664	
Lab Sample ID:	Q1664-04		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	SPLP VOA	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086162.D	1		03/28/25 19:54	VN032825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032825\
Data File : VN086162.D
Acq On : 28 Mar 2025 19:54
Operator : JC\MD
Sample : Q1664-04
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-001-01

Quant Time: Mar 28 23:40:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 19 03:20:56 2025
Response via : Initial Calibration

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

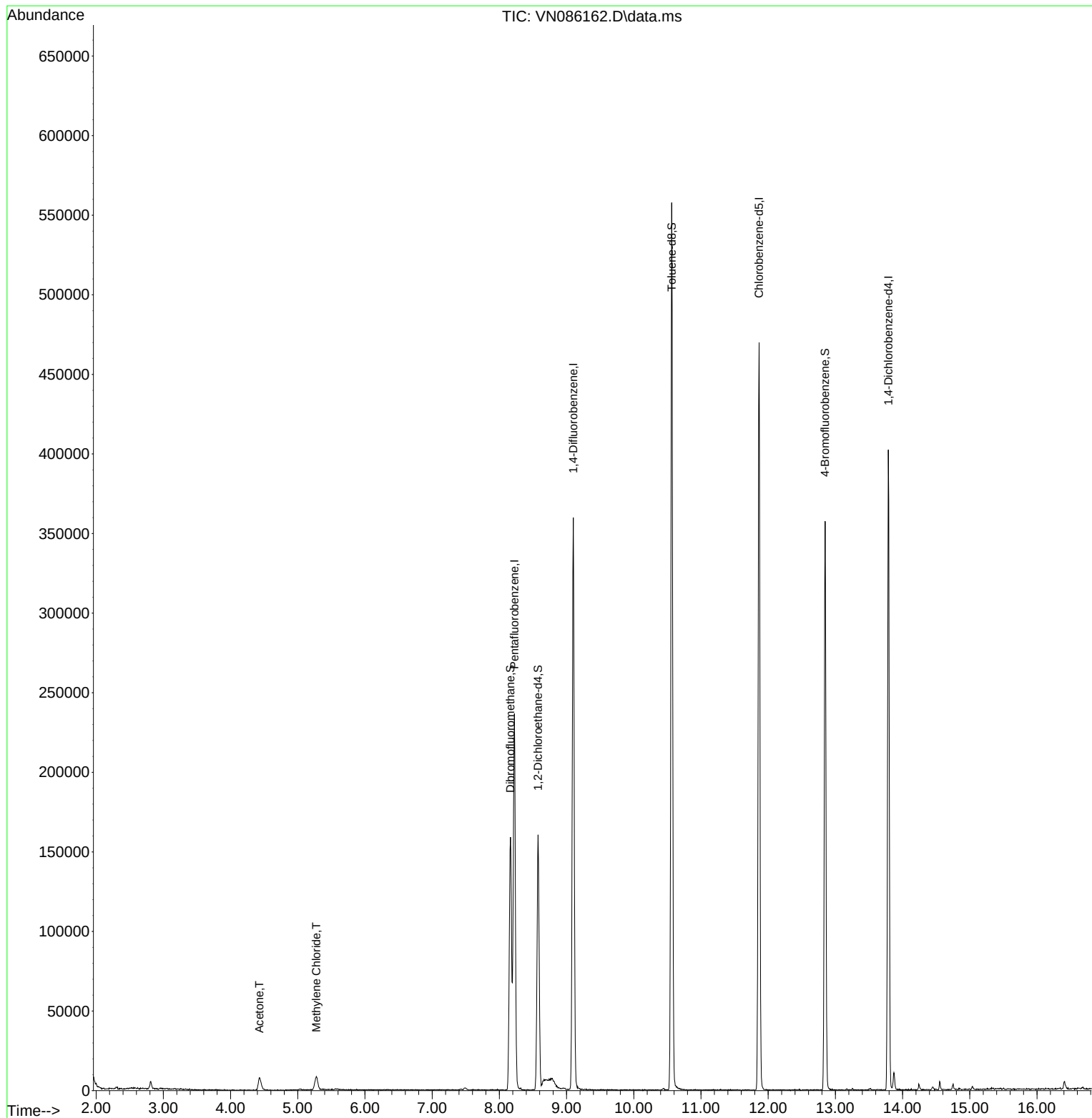
Internal Standards						
1) Pentafluorobenzene	8.224	168	168040	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	312295	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	285241	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	115525	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	132166	57.438	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	=	114.880%	
35) Dibromofluoromethane	8.165	113	116532	53.460	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	=	106.920%	
50) Toluene-d8	10.565	98	387699	49.007	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	=	98.020%	
62) 4-Bromofluorobenzene	12.847	95	126402	44.802	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	=	89.600%	
Target Compounds						
						Qvalue
16) Acetone	4.430	43	15994	22.751	ug/l	97
20) Methylene Chloride	5.277	84	7345	3.572	ug/l	95

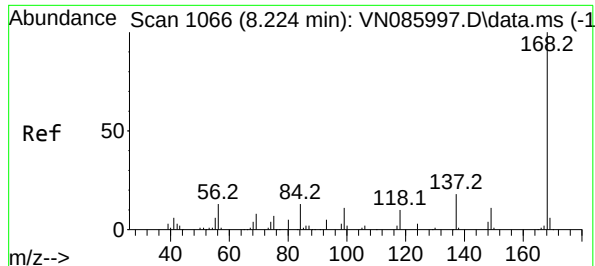
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032825\
Data File : VN086162.D
Acq On : 28 Mar 2025 19:54
Operator : JC\MD
Sample : Q1664-04
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-001-01

Quant Time: Mar 28 23:40:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 19 03:20:56 2025
Response via : Initial Calibration

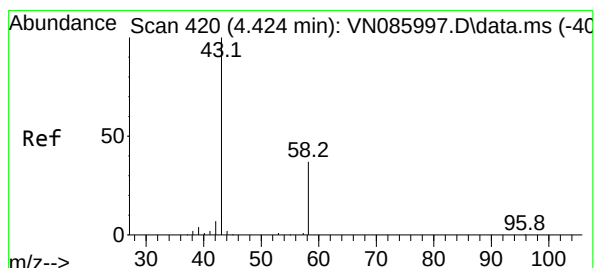
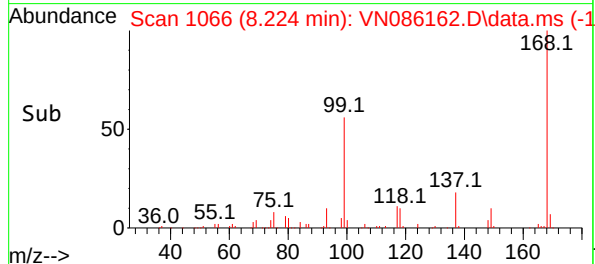
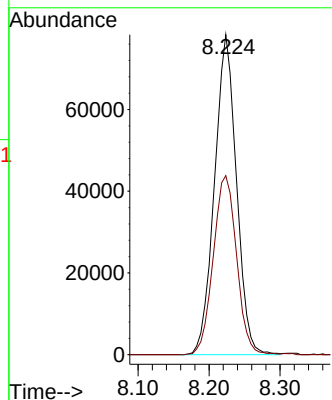
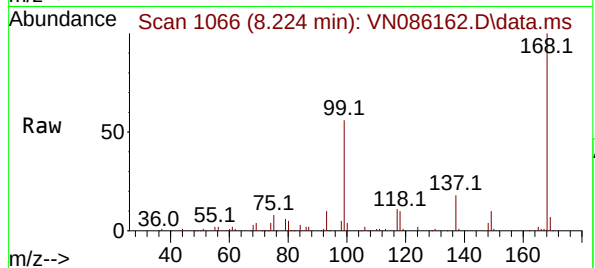




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN086162.D
Acq: 28 Mar 2025 19:54

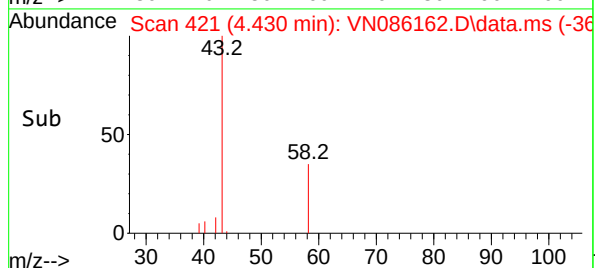
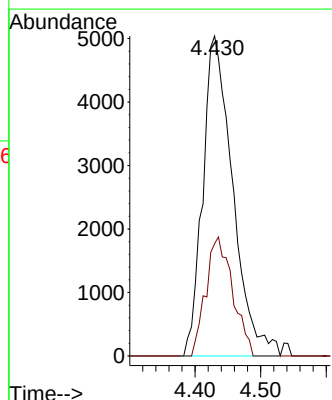
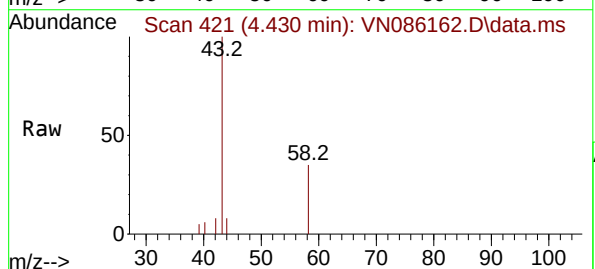
Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-001-01

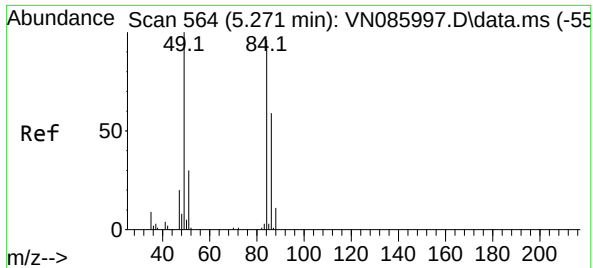
Tgt Ion:168 Resp: 168040
Ion Ratio Lower Upper
168 100
99 55.9 49.4 74.2



#16
Acetone
Concen: 22.751 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.006 min
Lab File: VN086162.D
Acq: 28 Mar 2025 19:54

Tgt Ion: 43 Resp: 15994
Ion Ratio Lower Upper
43 100
58 35.1 29.4 44.2





#20

Methylene Chloride

Concen: 3.572 ug/l

RT: 5.277 min Scan# 5

Delta R.T. 0.006 min

Lab File: VN086162.D

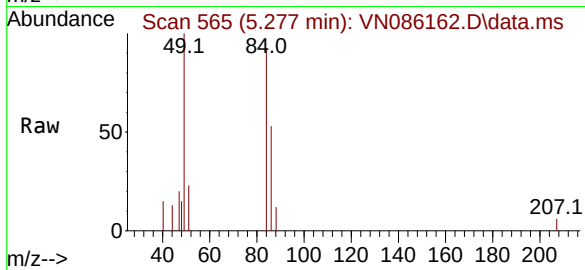
Acq: 28 Mar 2025 19:54

Instrument :

MSVOA_N

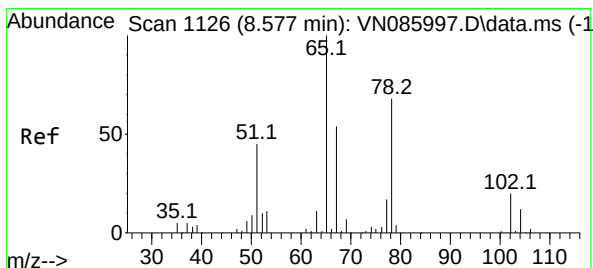
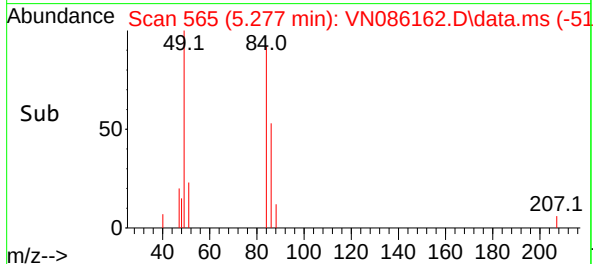
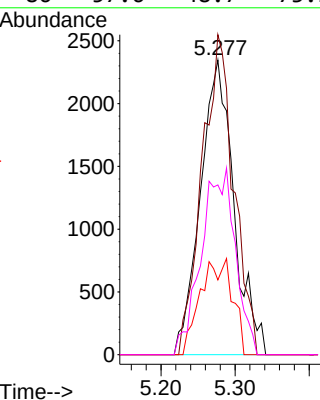
ClientSampleId :

P001-BBDGA-001-01



Tgt Ion: 84 Resp: 7345

Ion	Ratio	Lower	Upper
84	100		
49	108.6	83.3	124.9
51	25.4	24.8	37.2
86	57.6	48.7	73.1



#33

1,2-Dichloroethane-d4

Concen: 57.438 ug/l

RT: 8.577 min Scan# 1126

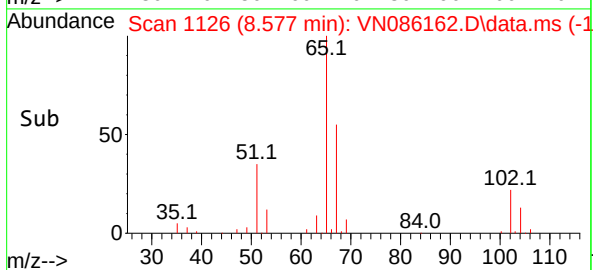
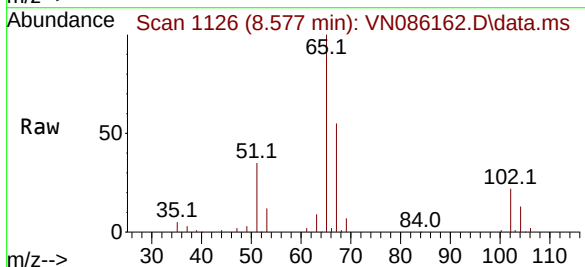
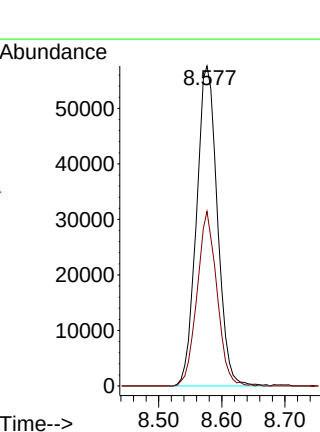
Delta R.T. -0.000 min

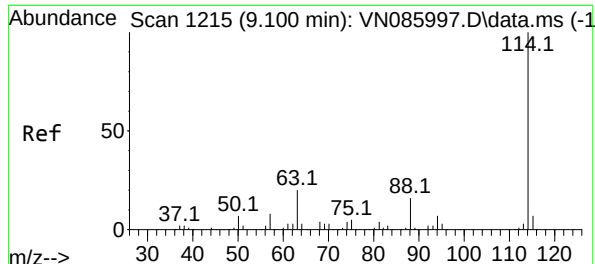
Lab File: VN086162.D

Acq: 28 Mar 2025 19:54

Tgt Ion: 65 Resp: 132166

Ion	Ratio	Lower	Upper
65	100		
67	52.1	0.0	102.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN086162.D

Acq: 28 Mar 2025 19:54

Instrument :

MSVOA_N

ClientSampleId :

P001-BBDGA-001-01

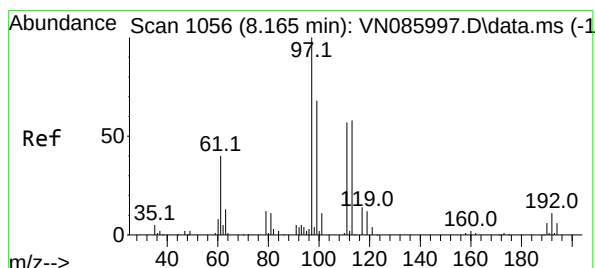
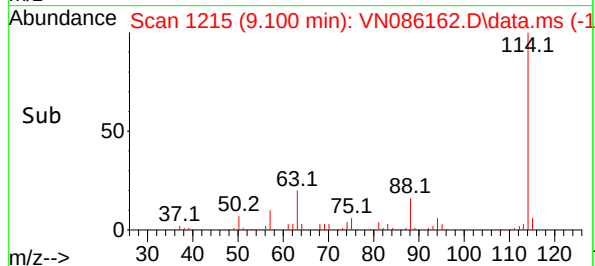
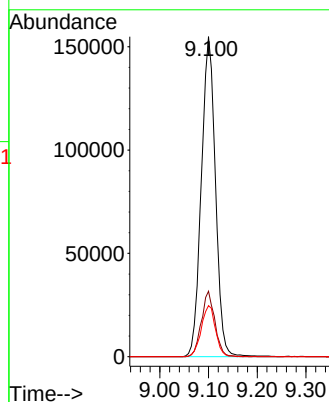
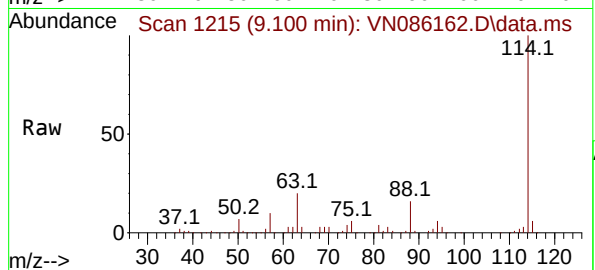
Tgt Ion:114 Resp: 312295

Ion Ratio Lower Upper

114 100

63 20.5 0.0 39.6

88 16.0 0.0 32.6



#35

Dibromofluoromethane

Concen: 53.460 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086162.D

Acq: 28 Mar 2025 19:54

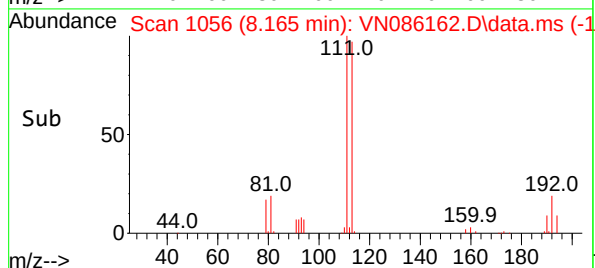
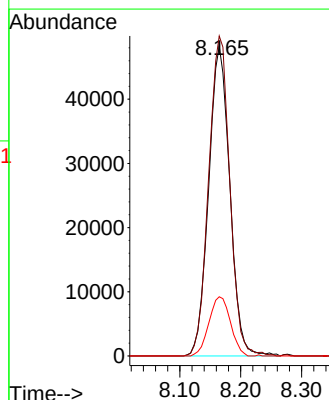
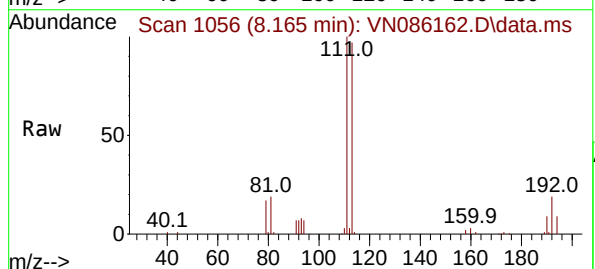
Tgt Ion:113 Resp: 116532

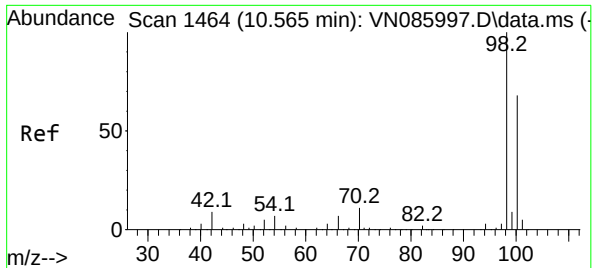
Ion Ratio Lower Upper

113 100

111 102.9 81.8 122.8

192 19.4 15.9 23.9

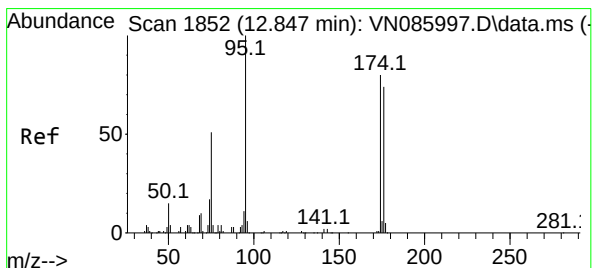
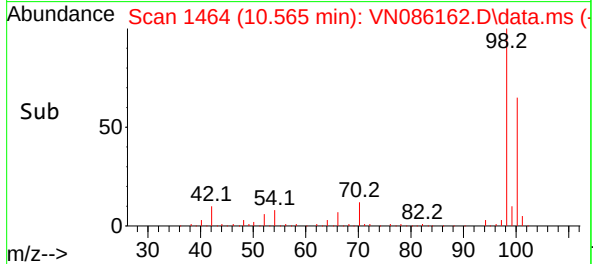
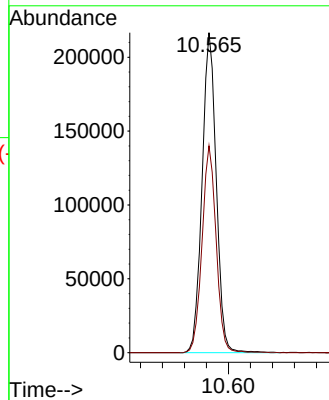
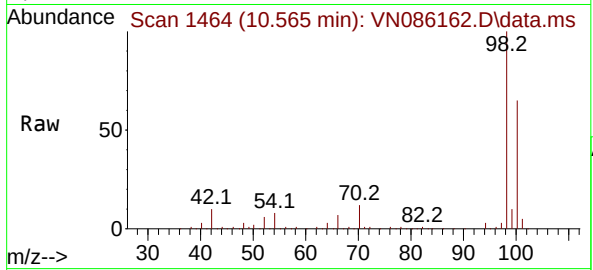




#50
Toluene-d8
Concen: 49.007 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086162.D
Acq: 28 Mar 2025 19:54

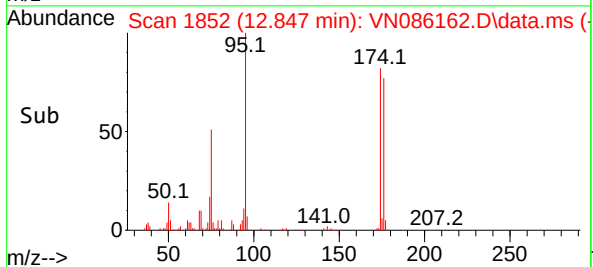
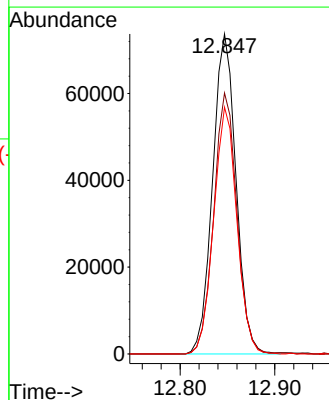
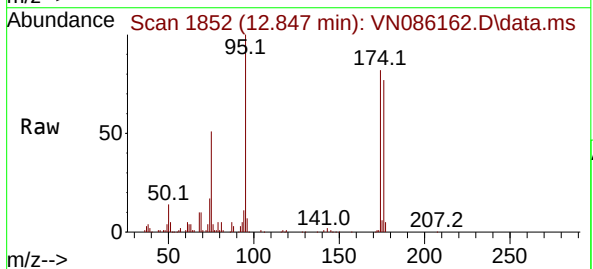
Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-001-01

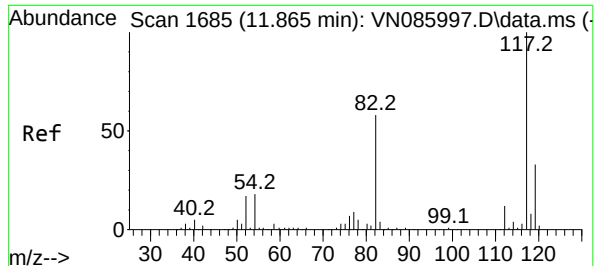
Tgt Ion: 98 Resp: 387699
Ion Ratio Lower Upper
98 100
100 64.4 53.1 79.7



#62
4-Bromofluorobenzene
Concen: 44.802 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086162.D
Acq: 28 Mar 2025 19:54

Tgt Ion: 95 Resp: 126402
Ion Ratio Lower Upper
95 100
174 80.9 0.0 156.8
176 76.7 0.0 152.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086162.D

Acq: 28 Mar 2025 19:54

Instrument :

MSVOA_N

ClientSampleId :

P001-BBDGA-001-01

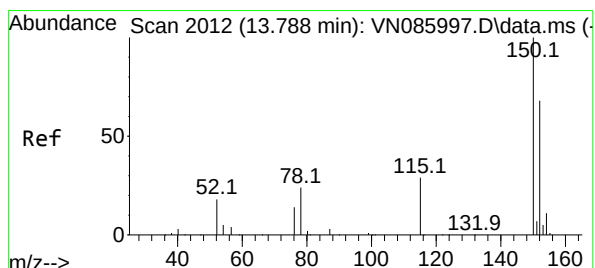
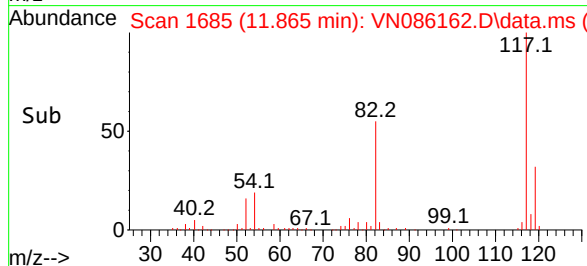
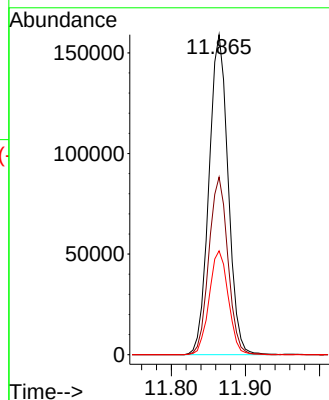
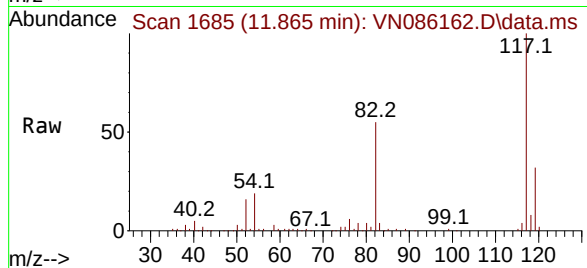
Tgt Ion:117 Resp: 285241

Ion Ratio Lower Upper

117 100

82 55.5 46.7 70.1

119 32.4 26.5 39.7



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. -0.000 min

Lab File: VN086162.D

Acq: 28 Mar 2025 19:54

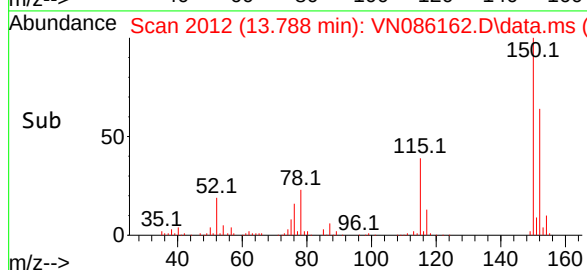
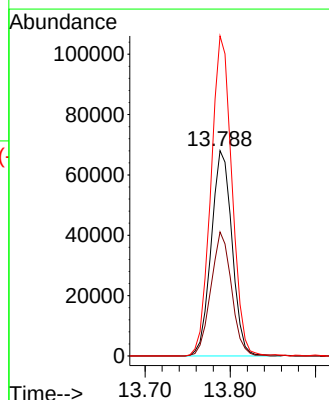
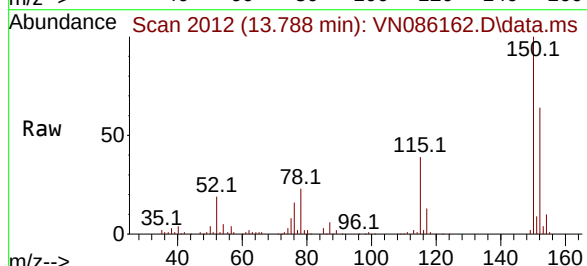
Tgt Ion:152 Resp: 115525

Ion Ratio Lower Upper

152 100

115 59.7 31.1 93.2

150 156.9 0.0 359.6



Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	03/26/25	
Project:	RFP 905		Date Received:	03/27/25	
Client Sample ID:	P001-BBDGA-001-02		SDG No.:	Q1664	
Lab Sample ID:	Q1664-08		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	SPLP VOA	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086153.D	1		03/28/25 16:18	VN032825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.22	U	0.22	5.00	ug/L
74-87-3	Chloromethane	0.32	U	0.32	5.00	ug/L
75-01-4	Vinyl Chloride	0.26	U	0.26	5.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.47	U	0.47	5.00	ug/L
75-69-4	Trichlorofluoromethane	0.33	U	0.33	5.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	5.00	ug/L
67-64-1	Acetone	16.2	J	1.50	25.0	ug/L
75-15-0	Carbon Disulfide	0.21	U	0.21	5.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	5.00	ug/L
79-20-9	Methyl Acetate	0.27	U	0.27	5.00	ug/L
75-09-2	Methylene Chloride	3.80	J	0.28	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.23	U	0.23	5.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	5.00	ug/L
110-82-7	Cyclohexane	1.50	U	1.50	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	5.00	ug/L
74-97-5	Bromochloromethane	0.22	U	0.22	5.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	5.00	ug/L
108-87-2	Methylcyclohexane	0.16	U	0.16	5.00	ug/L
71-43-2	Benzene	0.15	U	0.15	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	5.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	5.00	ug/L
78-87-5	1,2-Dichloropropane	0.20	U	0.20	5.00	ug/L
75-27-4	Bromodichloromethane	0.22	U	0.22	5.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.68	U	0.68	25.0	ug/L
108-88-3	Toluene	0.14	U	0.14	5.00	ug/L

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	03/26/25	
Project:	RFP 905		Date Received:	03/27/25	
Client Sample ID:	P001-BBDGA-001-02		SDG No.:	Q1664	
Lab Sample ID:	Q1664-08		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	SPLP VOA	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086153.D	1		03/28/25 16:18	VN032825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.17	U	0.17	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.16	U	0.16	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	5.00	ug/L
591-78-6	2-Hexanone	0.89	U	0.89	25.0	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	5.00	ug/L
106-93-4	1,2-Dibromoethane	0.15	U	0.15	5.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	5.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	5.00	ug/L
100-41-4	Ethyl Benzene	0.13	U	0.13	5.00	ug/L
179601-23-1	m/p-Xylenes	0.24	U	0.24	10.0	ug/L
95-47-6	o-Xylene	0.12	U	0.12	5.00	ug/L
100-42-5	Styrene	0.15	U	0.15	5.00	ug/L
75-25-2	Bromoform	0.19	U	0.19	5.00	ug/L
98-82-8	Isopropylbenzene	0.12	U	0.12	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.26	U	0.26	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.16	U	0.16	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.19	U	0.19	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.16	U	0.16	5.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	0.53	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.20	U	0.20	5.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.20	U	0.20	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	57.8		74 - 125	116%	SPK: 50
1868-53-7	Dibromofluoromethane	52.3		75 - 124	105%	SPK: 50
2037-26-5	Toluene-d8	47.2		86 - 113	94%	SPK: 50
460-00-4	4-Bromofluorobenzene	42.6		77 - 121	85%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	170000	8.224			
540-36-3	1,4-Difluorobenzene	326000	9.1			
3114-55-4	Chlorobenzene-d5	284000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	114000	13.788			

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-001-02	SDG No.:	Q1664
Lab Sample ID:	Q1664-08	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	SPLP VOA
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086153.D	1		03/28/25 16:18	VN032825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032825\
Data File : VN086153.D
Acq On : 28 Mar 2025 16:18
Operator : JC\MD
Sample : Q1664-08
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-001-02

Quant Time: Mar 28 23:38:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 19 03:20:56 2025
Response via : Initial Calibration

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

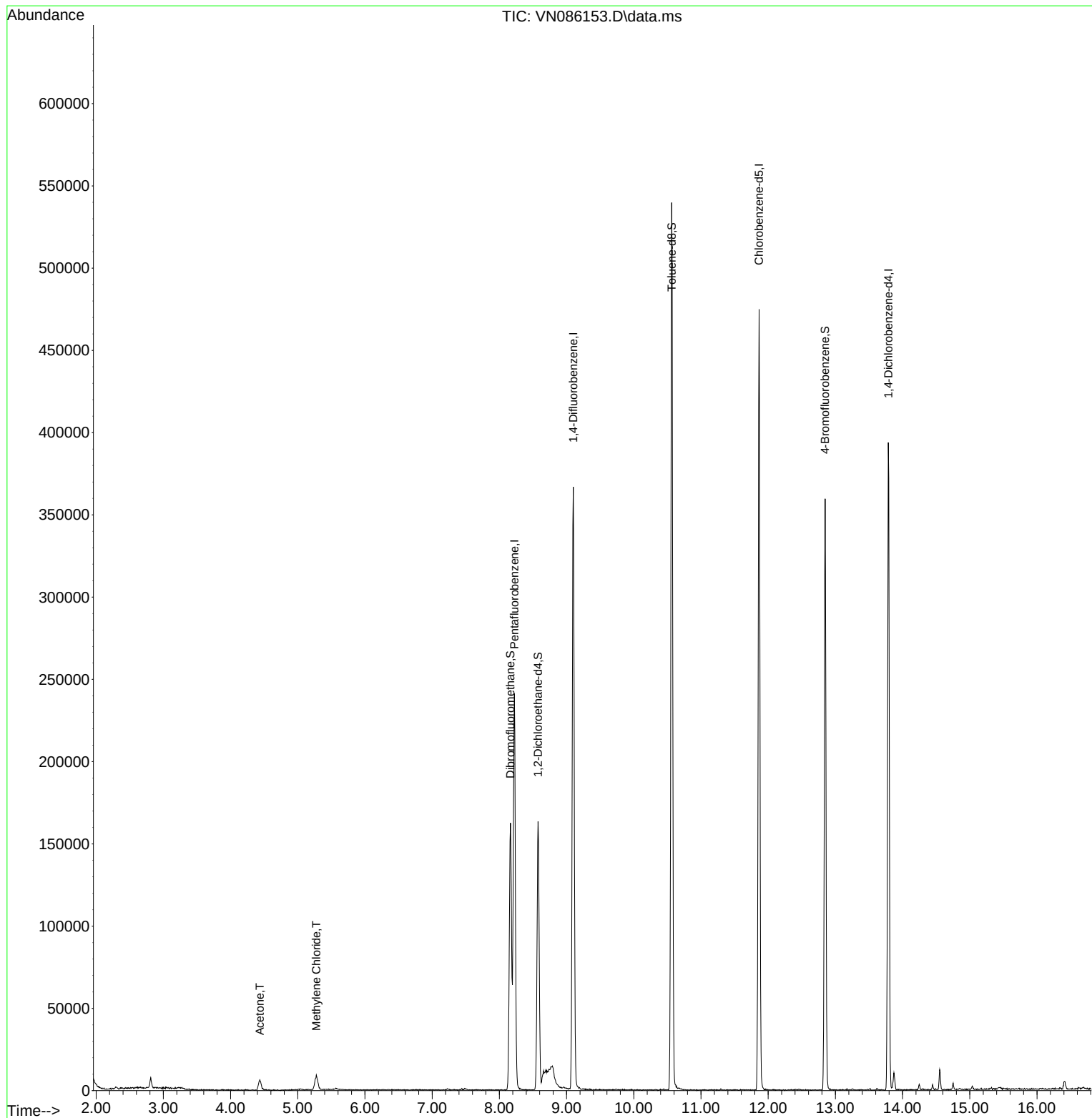
Internal Standards						
1) Pentafluorobenzene	8.224	168	169934	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	326263	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	284406	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	114450	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	134445	57.777	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	=	115.560%	
35) Dibromofluoromethane	8.165	113	119183	52.336	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	=	104.680%	
50) Toluene-d8	10.565	98	390022	47.190	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	=	94.380%	
62) 4-Bromofluorobenzene	12.847	95	125537	42.591	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	=	85.180%	
Target Compounds						
						Qvalue
16) Acetone	4.436	43	11528	16.216	ug/l	# 83
20) Methylene Chloride	5.277	84	7856	3.777	ug/l	96

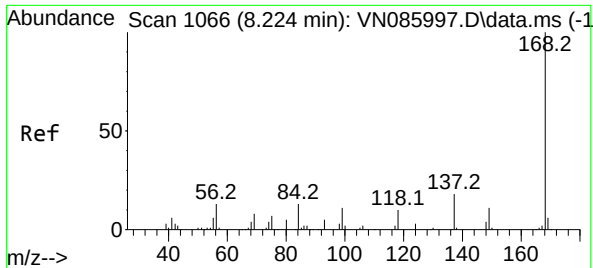
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032825\
Data File : VN086153.D
Acq On : 28 Mar 2025 16:18
Operator : JC\MD
Sample : Q1664-08
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-001-02

Quant Time: Mar 28 23:38:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 19 03:20:56 2025
Response via : Initial Calibration

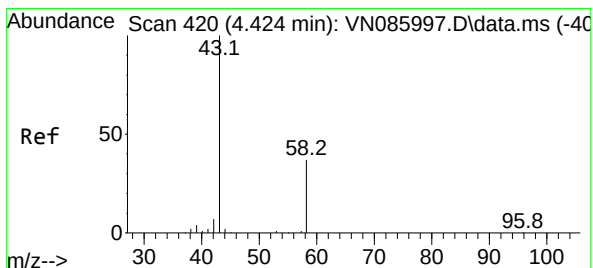
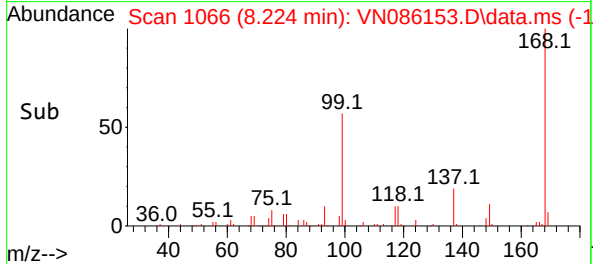
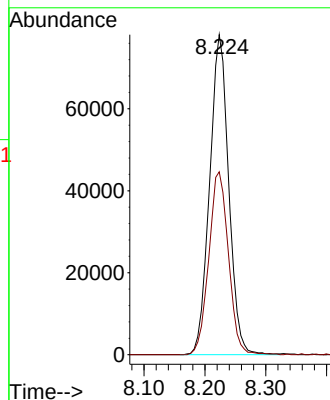
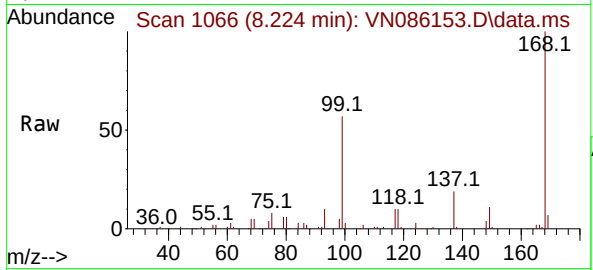




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN086153.D
Acq: 28 Mar 2025 16:18

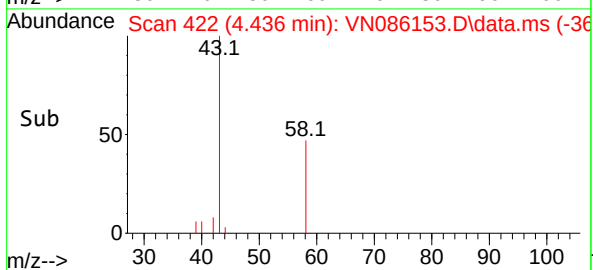
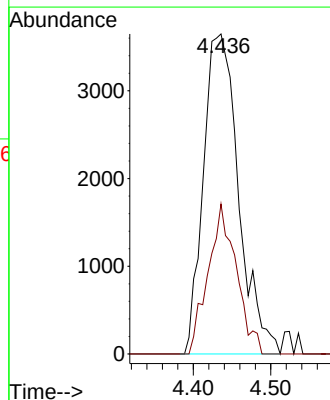
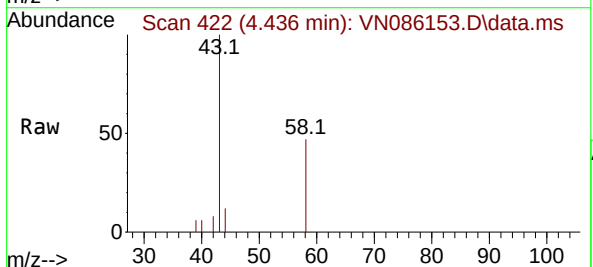
Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-001-02

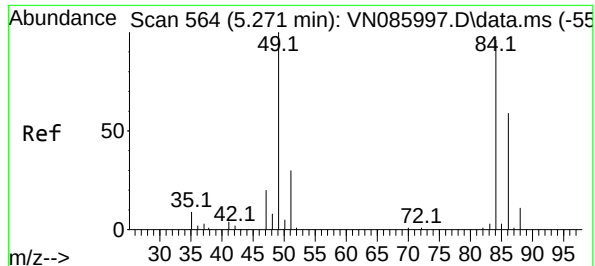
Tgt Ion:168 Resp: 169934
Ion Ratio Lower Upper
168 100
99 57.1 49.4 74.2



#16
Acetone
Concen: 16.216 ug/l
RT: 4.436 min Scan# 422
Delta R.T. 0.011 min
Lab File: VN086153.D
Acq: 28 Mar 2025 16:18

Tgt Ion: 43 Resp: 11528
Ion Ratio Lower Upper
43 100
58 46.9 29.4 44.2#





#20

Methylene Chloride

Concen: 3.777 ug/l

RT: 5.277 min Scan# 51

Delta R.T. 0.006 min

Lab File: VN086153.D

Acq: 28 Mar 2025 16:18

Instrument :

MSVOA_N

ClientSampleId :

P001-BBDGA-001-02

Tgt Ion: 84 Resp: 7856

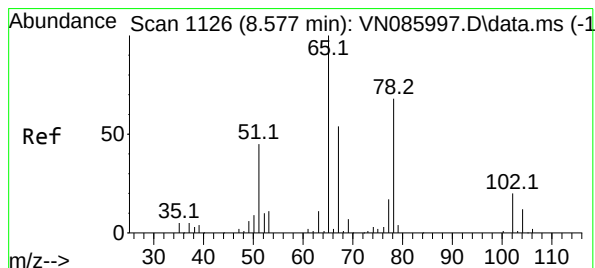
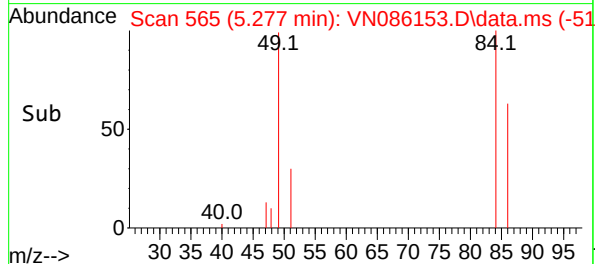
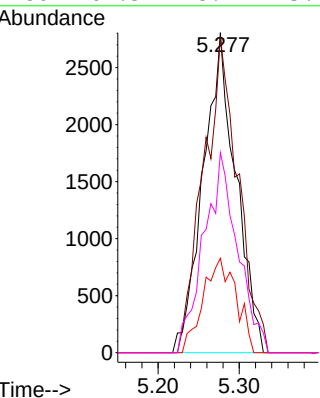
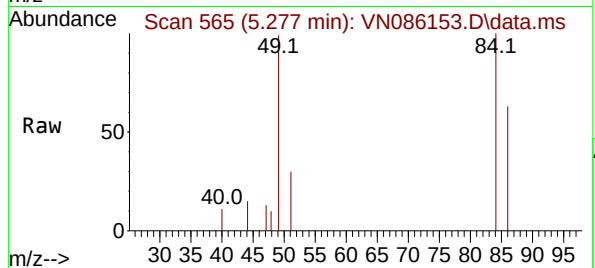
Ion Ratio Lower Upper

84 100

49 98.6 83.3 124.9

51 29.5 24.8 37.2

86 62.5 48.7 73.1



#33

1,2-Dichloroethane-d4

Concen: 57.777 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN086153.D

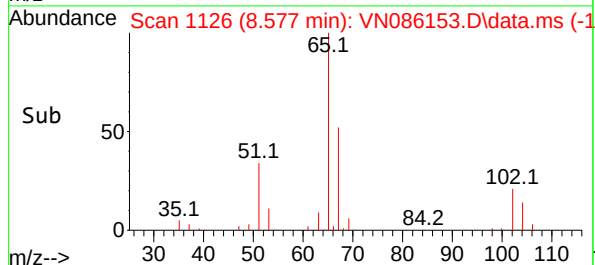
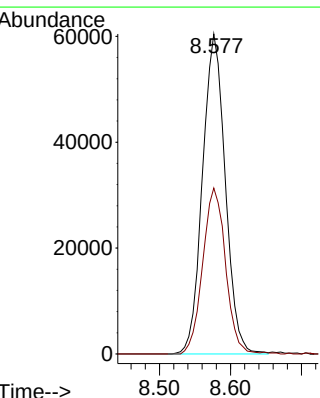
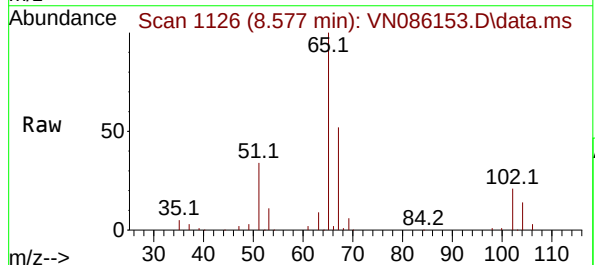
Acq: 28 Mar 2025 16:18

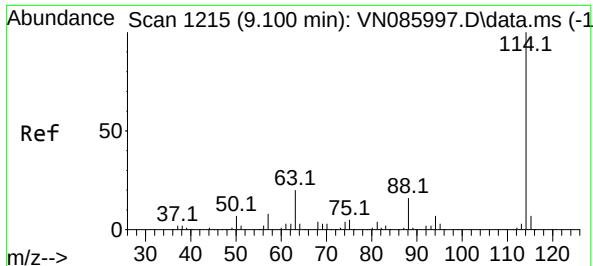
Tgt Ion: 65 Resp: 134445

Ion Ratio Lower Upper

65 100

67 52.1 0.0 102.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN086153.D

Acq: 28 Mar 2025 16:18

Instrument :

MSVOA_N

ClientSampleId :

P001-BBDGA-001-02

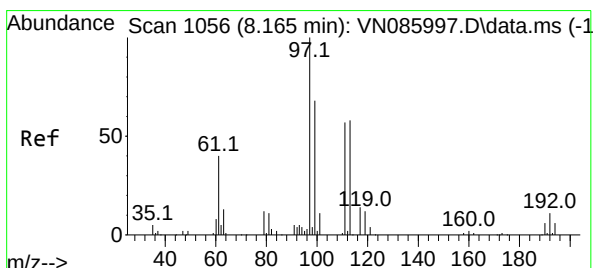
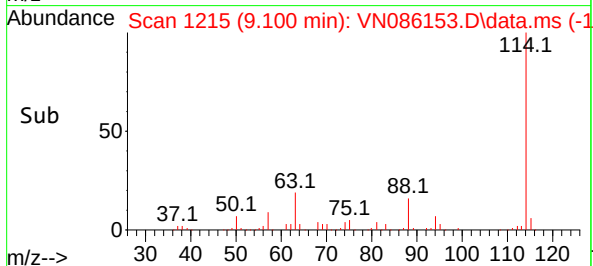
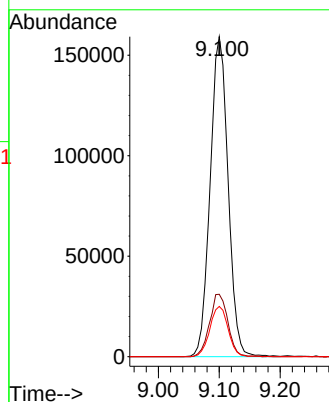
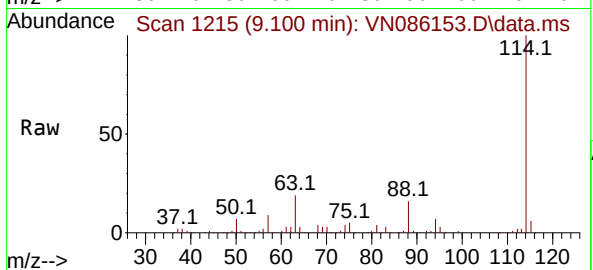
Tgt Ion:114 Resp: 326263

Ion Ratio Lower Upper

114 100

63 19.5 0.0 39.6

88 15.7 0.0 32.6



#35

Dibromofluoromethane

Concen: 52.336 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086153.D

Acq: 28 Mar 2025 16:18

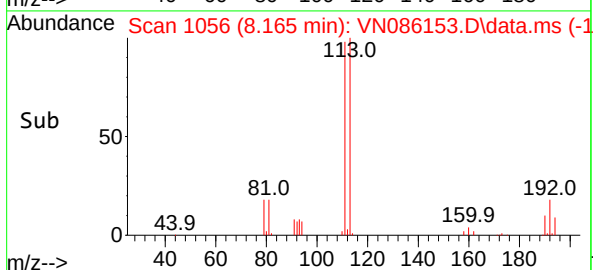
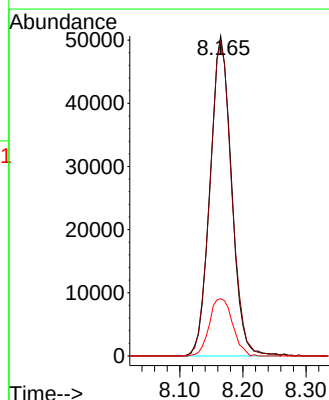
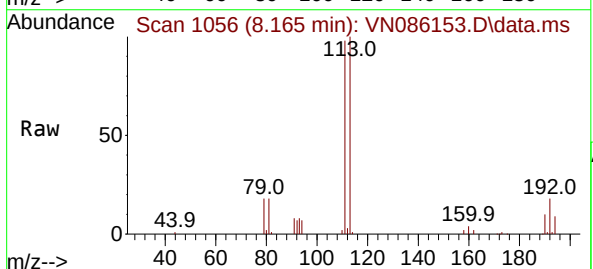
Tgt Ion:113 Resp: 119183

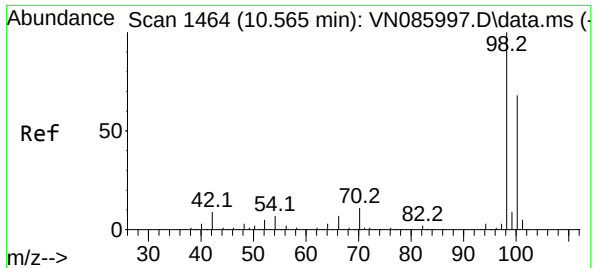
Ion Ratio Lower Upper

113 100

111 100.0 81.8 122.8

192 19.4 15.9 23.9

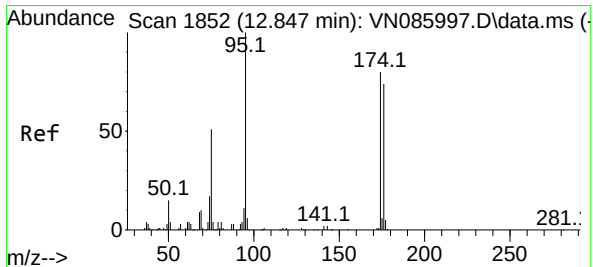
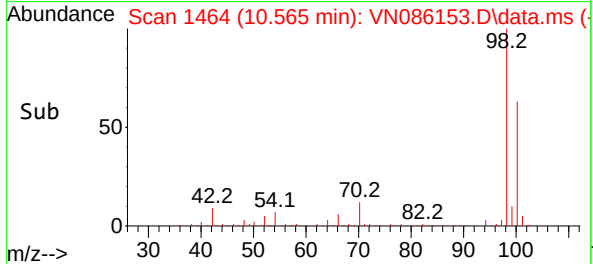
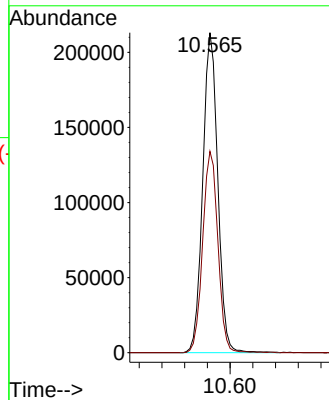
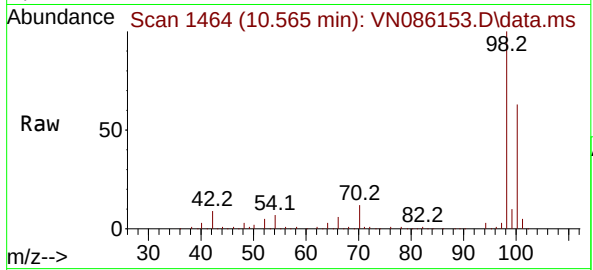




#50
Toluene-d8
Concen: 47.190 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086153.D
Acq: 28 Mar 2025 16:18

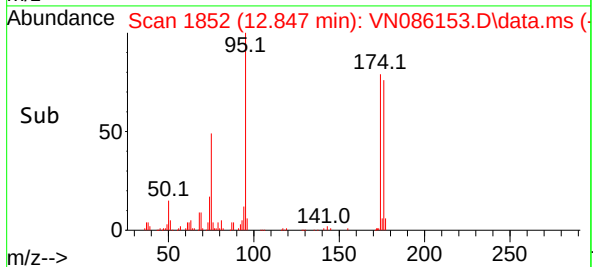
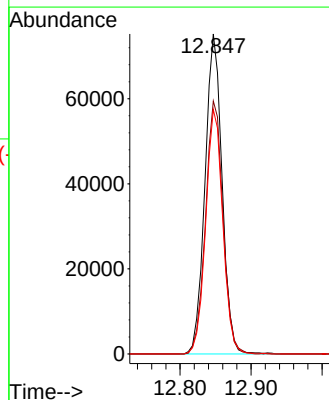
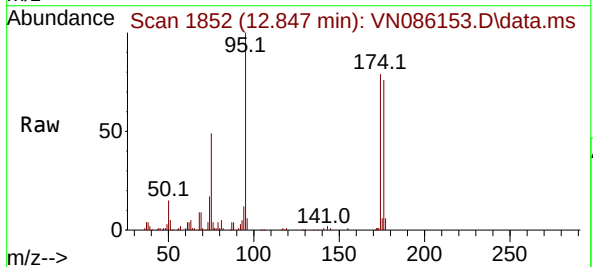
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MSVOA_N
ClientSampleId :
P001-BBDGA-001-02

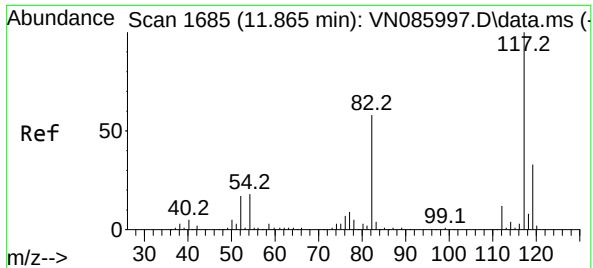
Tgt Ion: 98 Resp: 390022
Ion Ratio Lower Upper
98 100
100 63.8 53.1 79.7



#62
4-Bromofluorobenzene
Concen: 42.591 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086153.D
Acq: 28 Mar 2025 16:18

Tgt Ion: 95 Resp: 125537
Ion Ratio Lower Upper
95 100
174 81.6 0.0 156.8
176 76.6 0.0 152.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086153.D

Acq: 28 Mar 2025 16:18

Instrument :

MSVOA_N

ClientSampleId :

P001-BBDGA-001-02

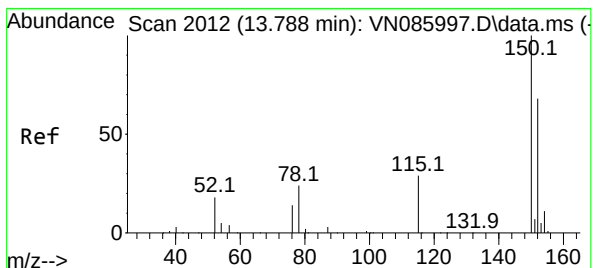
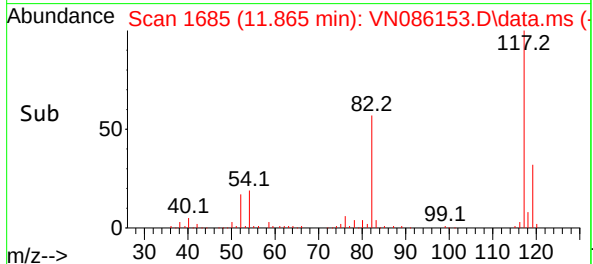
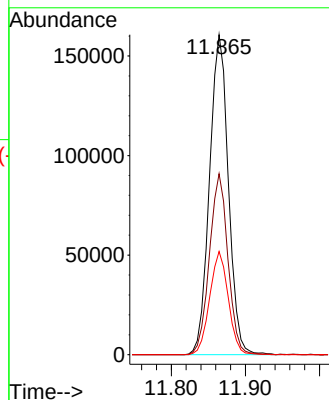
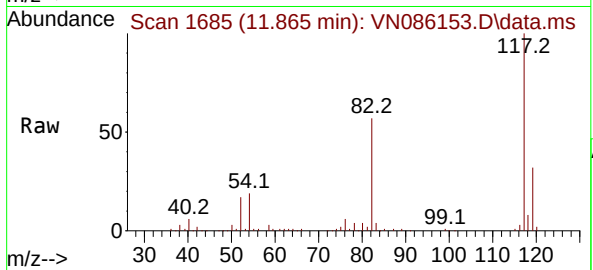
Tgt Ion:117 Resp: 284406

Ion Ratio Lower Upper

117 100

82 56.5 46.7 70.1

119 32.3 26.5 39.7



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. -0.000 min

Lab File: VN086153.D

Acq: 28 Mar 2025 16:18

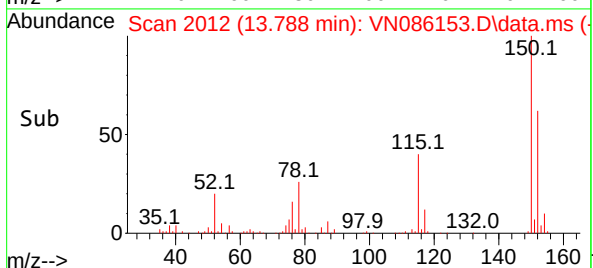
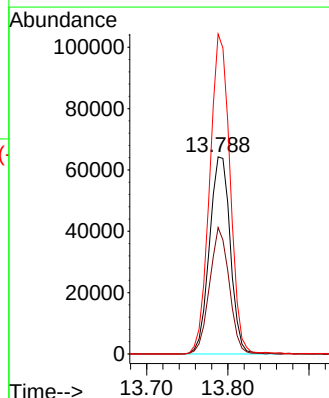
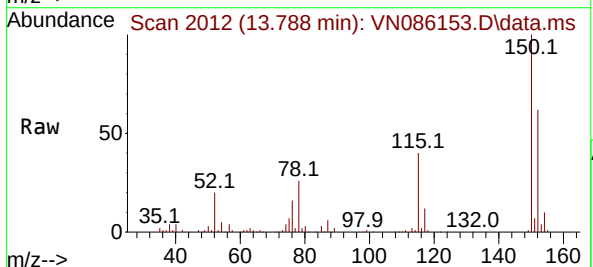
Tgt Ion:152 Resp: 114450

Ion Ratio Lower Upper

152 100

115 60.4 31.1 93.2

150 158.4 0.0 359.6



Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	03/26/25	
Project:	RFP 905		Date Received:	03/27/25	
Client Sample ID:	P001-BBDGA-002-01		SDG No.:	Q1664	
Lab Sample ID:	Q1664-10		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	SPLP VOA	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086154.D	1		03/28/25 16:42	VN032825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.22	U	0.22	5.00	ug/L
74-87-3	Chloromethane	0.32	U	0.32	5.00	ug/L
75-01-4	Vinyl Chloride	0.26	U	0.26	5.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.47	U	0.47	5.00	ug/L
75-69-4	Trichlorofluoromethane	0.33	U	0.33	5.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	5.00	ug/L
67-64-1	Acetone	21.5	J	1.50	25.0	ug/L
75-15-0	Carbon Disulfide	0.21	U	0.21	5.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	5.00	ug/L
79-20-9	Methyl Acetate	0.27	U	0.27	5.00	ug/L
75-09-2	Methylene Chloride	3.90	J	0.28	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.23	U	0.23	5.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	5.00	ug/L
110-82-7	Cyclohexane	1.50	U	1.50	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	5.00	ug/L
74-97-5	Bromochloromethane	0.22	U	0.22	5.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	5.00	ug/L
108-87-2	Methylcyclohexane	0.16	U	0.16	5.00	ug/L
71-43-2	Benzene	0.15	U	0.15	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	5.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	5.00	ug/L
78-87-5	1,2-Dichloropropane	0.20	U	0.20	5.00	ug/L
75-27-4	Bromodichloromethane	0.22	U	0.22	5.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.68	U	0.68	25.0	ug/L
108-88-3	Toluene	0.14	U	0.14	5.00	ug/L

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-002-01	SDG No.:	Q1664
Lab Sample ID:	Q1664-10	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5	Units:	mL
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW
		Final Vol:	5000
		Test:	SPLP VOA

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086154.D	1		03/28/25 16:42	VN032825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.17	U	0.17	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.16	U	0.16	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	5.00	ug/L
591-78-6	2-Hexanone	0.89	U	0.89	25.0	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	5.00	ug/L
106-93-4	1,2-Dibromoethane	0.15	U	0.15	5.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	5.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	5.00	ug/L
100-41-4	Ethyl Benzene	0.13	U	0.13	5.00	ug/L
179601-23-1	m/p-Xylenes	0.24	U	0.24	10.0	ug/L
95-47-6	o-Xylene	0.12	U	0.12	5.00	ug/L
100-42-5	Styrene	0.15	U	0.15	5.00	ug/L
75-25-2	Bromoform	0.19	U	0.19	5.00	ug/L
98-82-8	Isopropylbenzene	0.12	U	0.12	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.26	U	0.26	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.16	U	0.16	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.19	U	0.19	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.16	U	0.16	5.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	0.53	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.20	U	0.20	5.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.20	U	0.20	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	56.8		74 - 125	114%	SPK: 50
1868-53-7	Dibromofluoromethane	53.4		75 - 124	107%	SPK: 50
2037-26-5	Toluene-d8	48.4		86 - 113	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.3		77 - 121	89%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	175000	8.224			
540-36-3	1,4-Difluorobenzene	327000	9.1			
3114-55-4	Chlorobenzene-d5	298000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	126000	13.788			

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-002-01	SDG No.:	Q1664
Lab Sample ID:	Q1664-10	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	SPLP VOA
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086154.D	1		03/28/25 16:42	VN032825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032825\
Data File : VN086154.D
Acq On : 28 Mar 2025 16:42
Operator : JC\MD
Sample : Q1664-10
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-002-01

Quant Time: Mar 28 23:38:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 19 03:20:56 2025
Response via : Initial Calibration

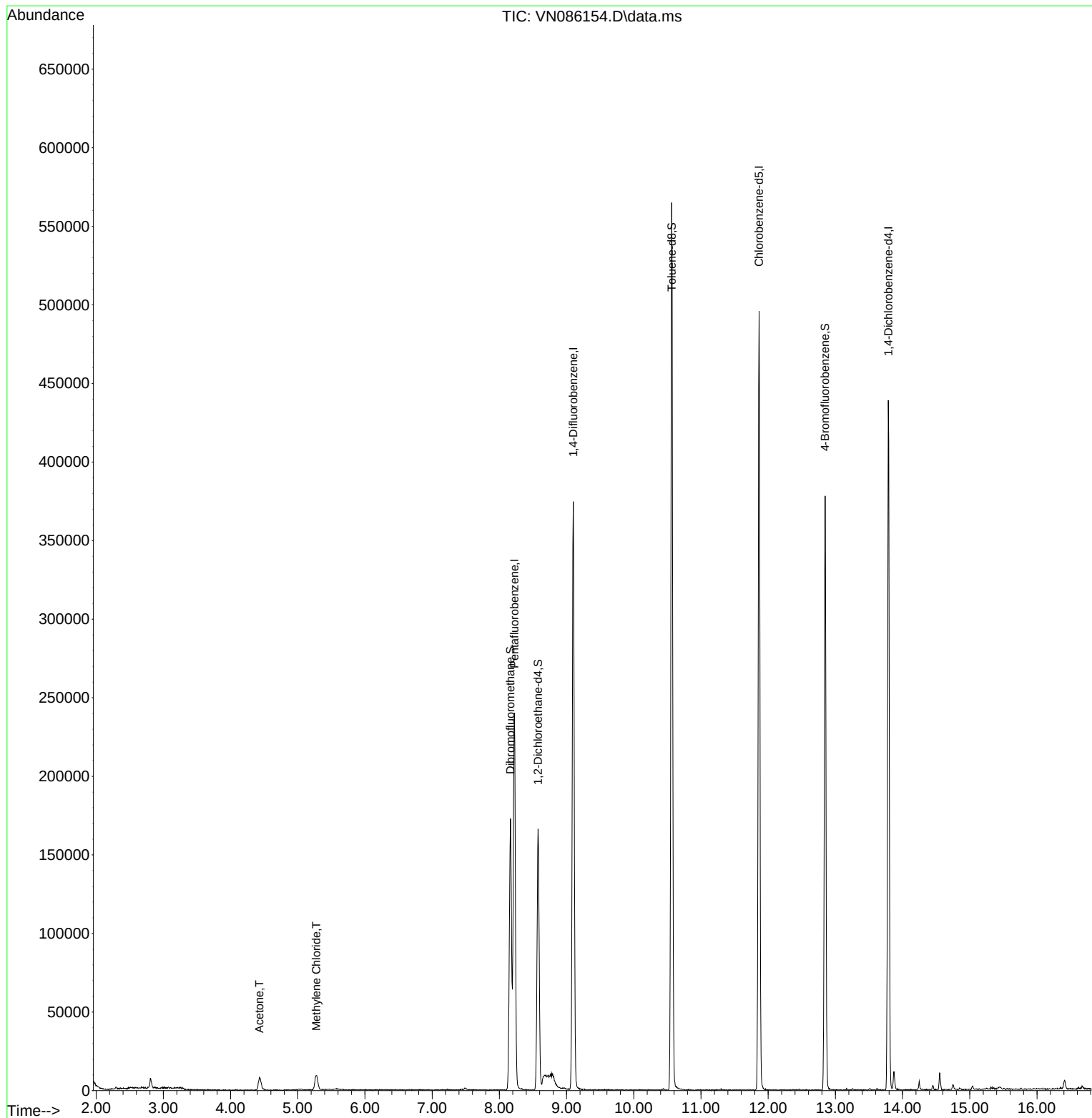
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	175001	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	326640	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	298386	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	126117	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.576	65	136115	56.801	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	=	113.600%	
35) Dibromofluoromethane	8.165	113	121737	53.396	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	=	106.800%	
50) Toluene-d8	10.565	98	400682	48.424	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	=	96.840%	
62) 4-Bromofluorobenzene	12.847	95	130785	44.320	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	=	88.640%	
Target Compounds						Qvalue
16) Acetone	4.430	43	15746	21.508	ug/l	99
20) Methylene Chloride	5.277	84	8310	3.880	ug/l #	85

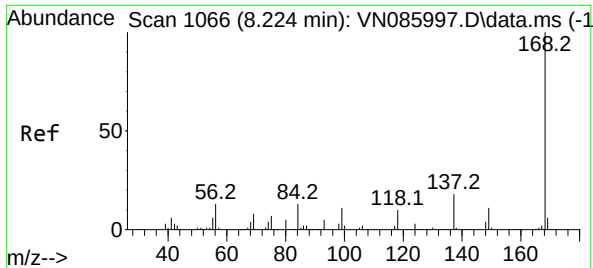
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032825\
Data File : VN086154.D
Acq On : 28 Mar 2025 16:42
Operator : JC\MD
Sample : Q1664-10
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-002-01

Quant Time: Mar 28 23:38:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 19 03:20:56 2025
Response via : Initial Calibration

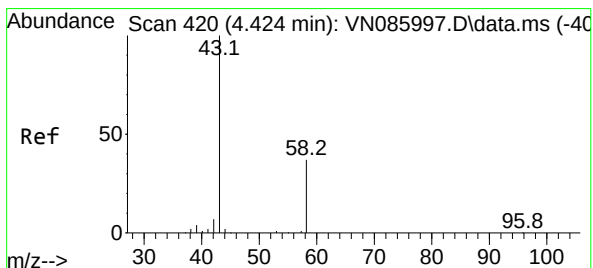
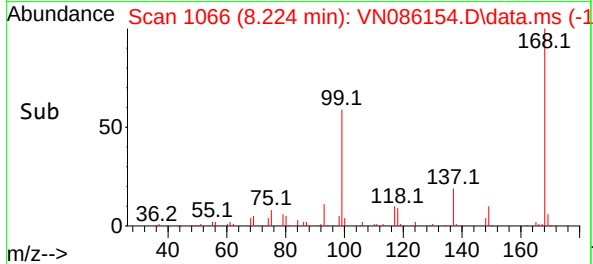
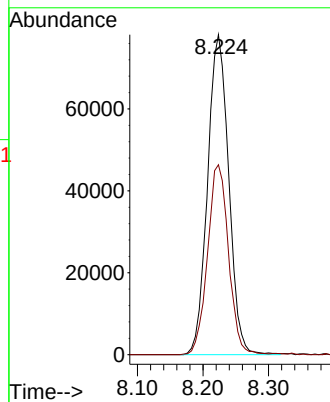
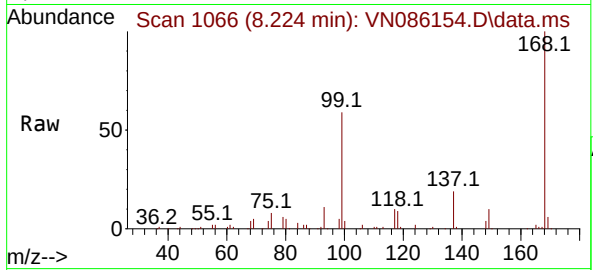




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN086154.D
Acq: 28 Mar 2025 16:42

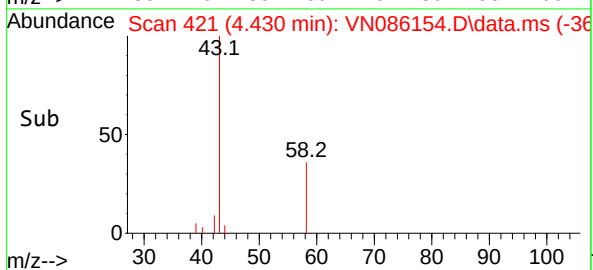
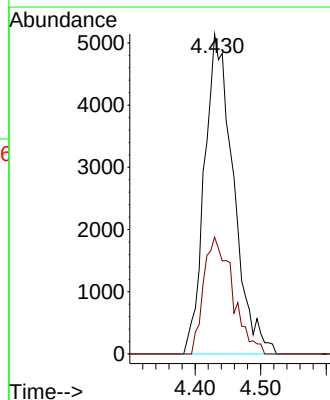
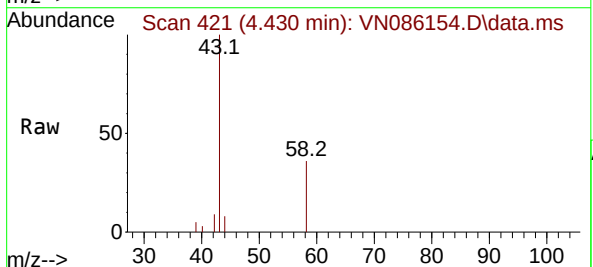
Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-002-01

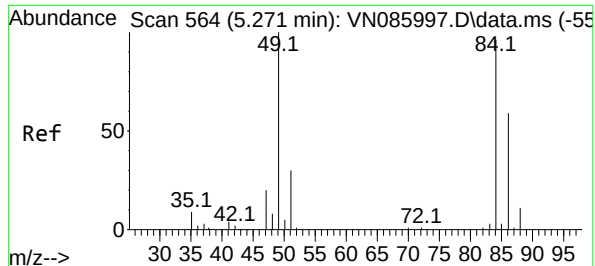
Tgt Ion:168 Resp: 175001
Ion Ratio Lower Upper
168 100
99 59.4 49.4 74.2



#16
Acetone
Concen: 21.508 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.006 min
Lab File: VN086154.D
Acq: 28 Mar 2025 16:42

Tgt Ion: 43 Resp: 15746
Ion Ratio Lower Upper
43 100
58 36.5 29.4 44.2





#20

Methylene Chloride

Concen: 3.880 ug/l

RT: 5.277 min Scan# 5

Delta R.T. 0.006 min

Lab File: VN086154.D

Acq: 28 Mar 2025 16:42

Instrument :

MSVOA_N

ClientSampleId :

P001-BBDGA-002-01

Tgt Ion: 84 Resp: 8310

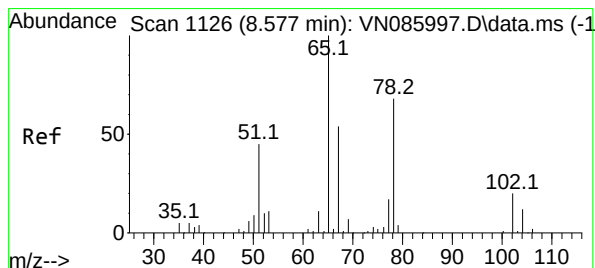
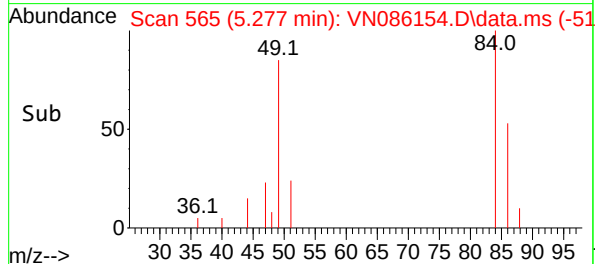
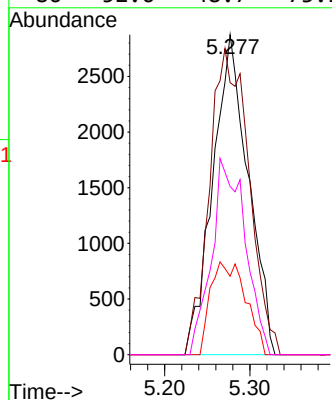
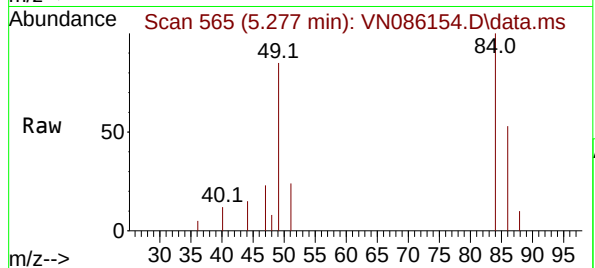
Ion Ratio Lower Upper

84 100

49 85.0 83.3 124.9

51 24.5 24.8 37.2#

86 52.6 48.7 73.1



#33

1,2-Dichloroethane-d4

Concen: 56.801 ug/l

RT: 8.576 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN086154.D

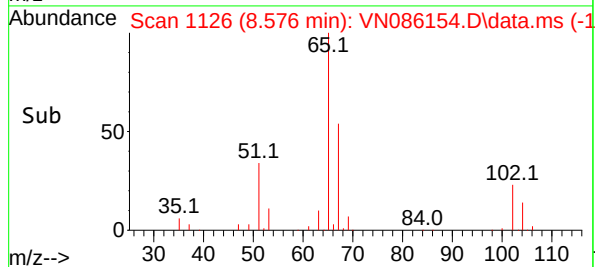
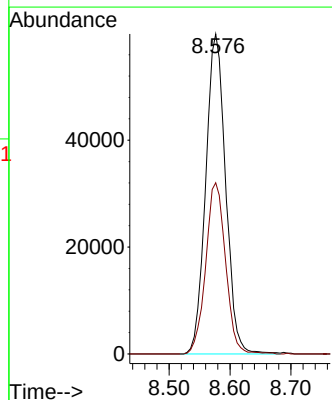
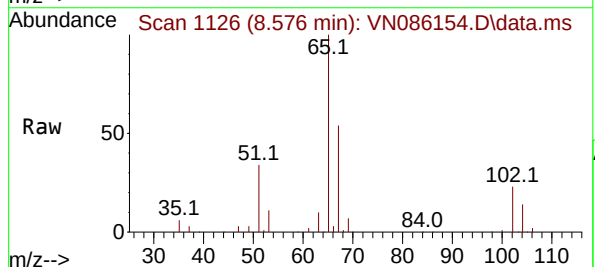
Acq: 28 Mar 2025 16:42

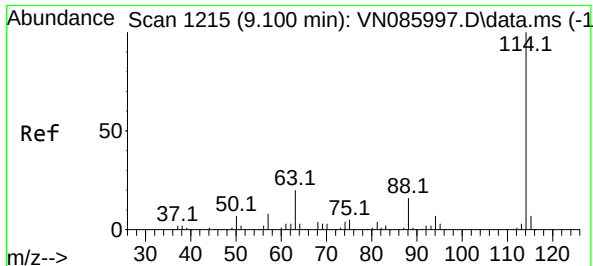
Tgt Ion: 65 Resp: 136115

Ion Ratio Lower Upper

65 100

67 53.2 0.0 102.2

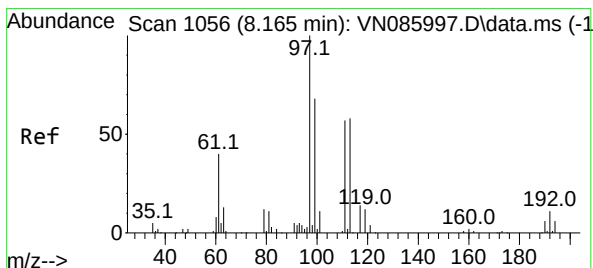
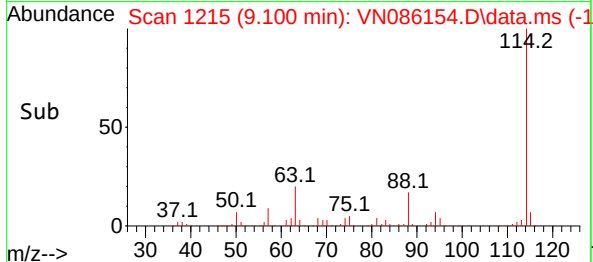
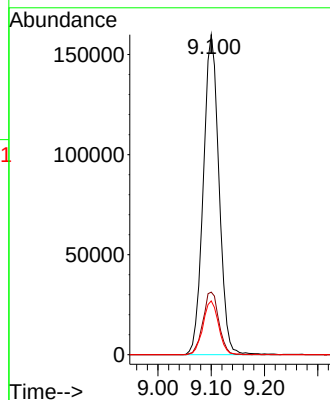
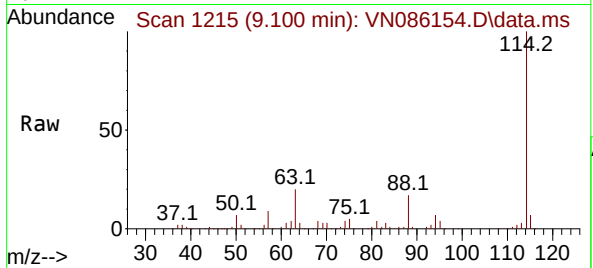




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086154.D
Acq: 28 Mar 2025 16:42

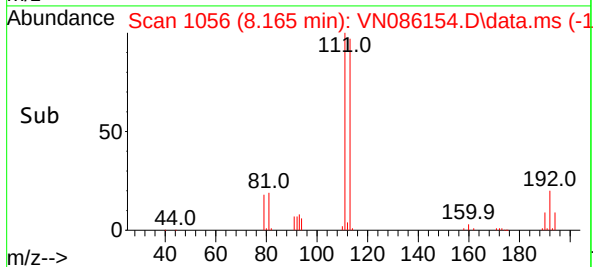
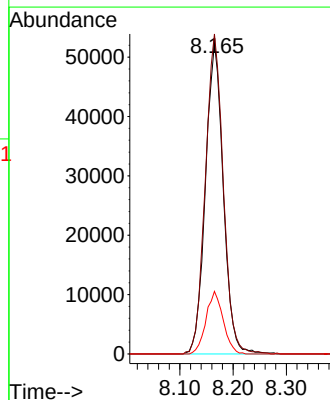
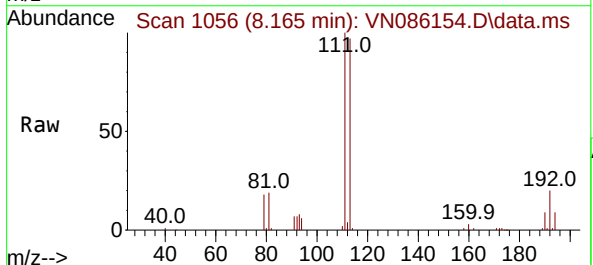
Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-002-01

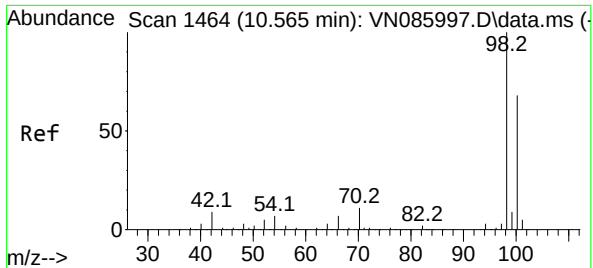
Tgt Ion:114 Resp: 326640
Ion Ratio Lower Upper
114 100
63 19.6 0.0 39.6
88 16.8 0.0 32.6



#35
Dibromofluoromethane
Concen: 53.396 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN086154.D
Acq: 28 Mar 2025 16:42

Tgt Ion:113 Resp: 121737
Ion Ratio Lower Upper
113 100
111 103.6 81.8 122.8
192 19.4 15.9 23.9

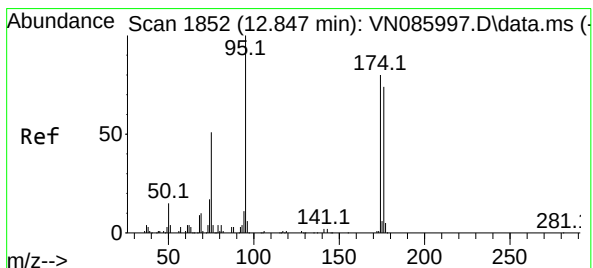
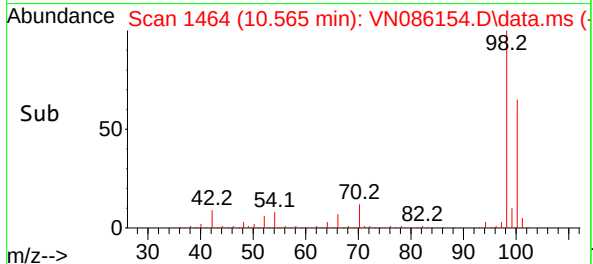
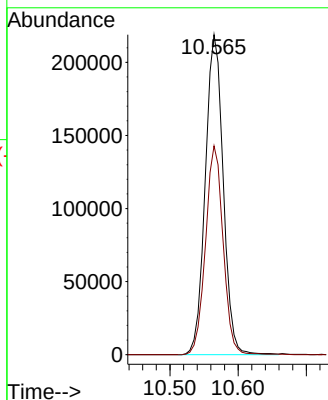
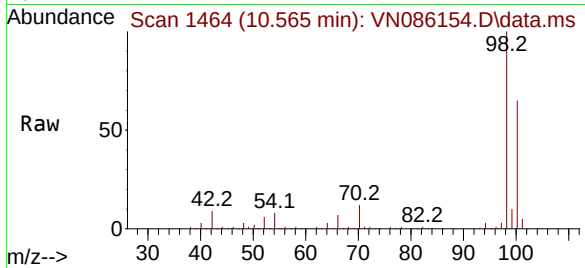




#50
Toluene-d8
Concen: 48.424 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086154.D
Acq: 28 Mar 2025 16:42

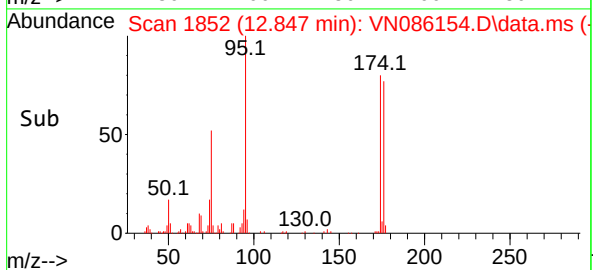
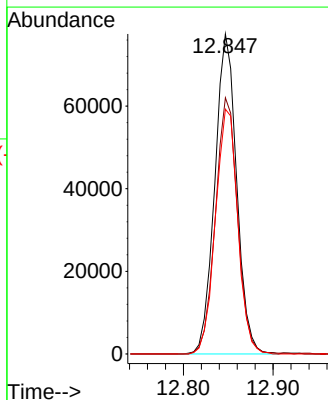
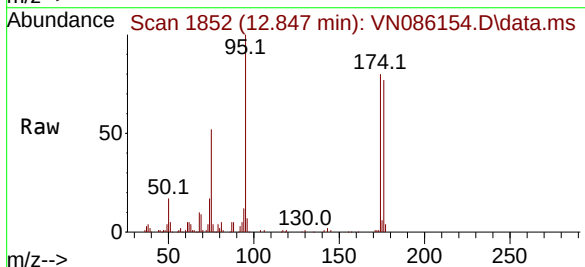
Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-002-01

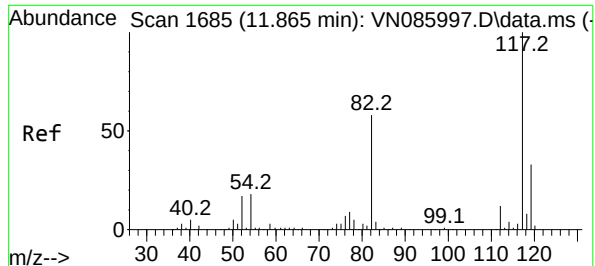
Tgt Ion: 98 Resp: 400682
Ion Ratio Lower Upper
98 100
100 64.1 53.1 79.7



#62
4-Bromofluorobenzene
Concen: 44.320 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086154.D
Acq: 28 Mar 2025 16:42

Tgt Ion: 95 Resp: 130785
Ion Ratio Lower Upper
95 100
174 81.2 0.0 156.8
176 78.3 0.0 152.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086154.D

Acq: 28 Mar 2025 16:42

Instrument :

MSVOA_N

ClientSampleId :

P001-BBDGA-002-01

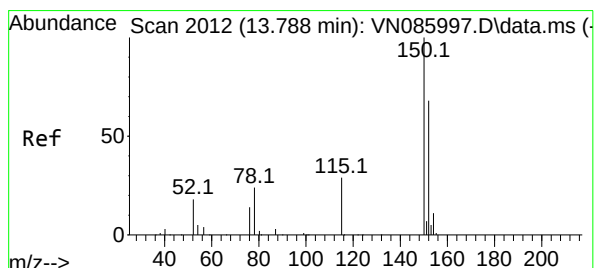
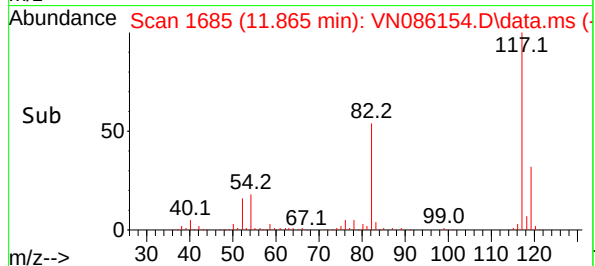
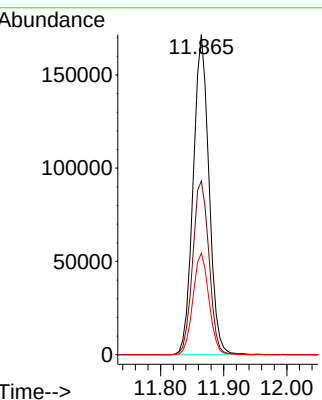
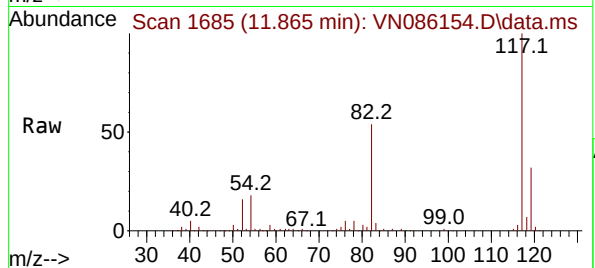
Tgt Ion:117 Resp: 298386

Ion Ratio Lower Upper

117 100

82 54.3 46.7 70.1

119 31.7 26.5 39.7



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. -0.000 min

Lab File: VN086154.D

Acq: 28 Mar 2025 16:42

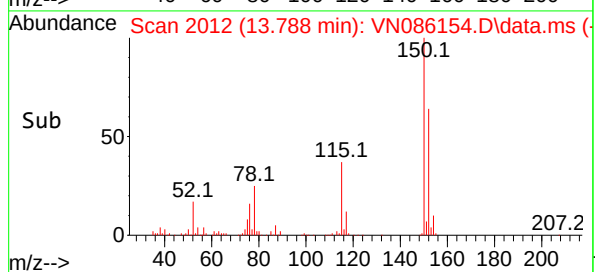
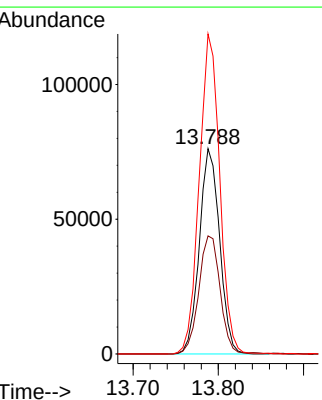
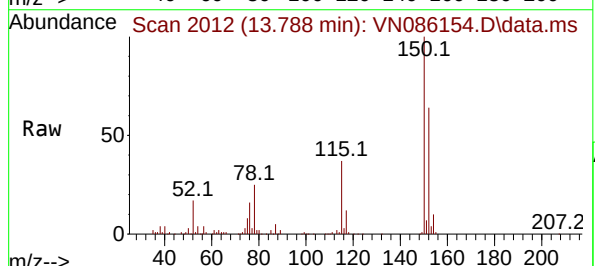
Tgt Ion:152 Resp: 126117

Ion Ratio Lower Upper

152 100

115 60.1 31.1 93.2

150 157.4 0.0 359.6



Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	03/26/25	
Project:	RFP 905		Date Received:	03/27/25	
Client Sample ID:	P001-BBDGA-003-01		SDG No.:	Q1664	
Lab Sample ID:	Q1664-12		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	SPLP VOA	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086155.D	1		03/28/25 17:06	VN032825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.22	U	0.22	5.00	ug/L
74-87-3	Chloromethane	0.32	U	0.32	5.00	ug/L
75-01-4	Vinyl Chloride	0.26	U	0.26	5.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.47	U	0.47	5.00	ug/L
75-69-4	Trichlorofluoromethane	0.33	U	0.33	5.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	5.00	ug/L
67-64-1	Acetone	16.4	J	1.50	25.0	ug/L
75-15-0	Carbon Disulfide	0.21	U	0.21	5.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	5.00	ug/L
79-20-9	Methyl Acetate	0.27	U	0.27	5.00	ug/L
75-09-2	Methylene Chloride	3.70	J	0.28	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.23	U	0.23	5.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	5.00	ug/L
110-82-7	Cyclohexane	1.50	U	1.50	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	5.00	ug/L
74-97-5	Bromochloromethane	0.22	U	0.22	5.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	5.00	ug/L
108-87-2	Methylcyclohexane	0.16	U	0.16	5.00	ug/L
71-43-2	Benzene	0.15	U	0.15	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	5.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	5.00	ug/L
78-87-5	1,2-Dichloropropane	0.20	U	0.20	5.00	ug/L
75-27-4	Bromodichloromethane	0.22	U	0.22	5.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.68	U	0.68	25.0	ug/L
108-88-3	Toluene	0.14	U	0.14	5.00	ug/L

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	03/26/25	
Project:	RFP 905		Date Received:	03/27/25	
Client Sample ID:	P001-BBDGA-003-01		SDG No.:	Q1664	
Lab Sample ID:	Q1664-12		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	SPLP VOA	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086155.D	1		03/28/25 17:06	VN032825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.17	U	0.17	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.16	U	0.16	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	5.00	ug/L
591-78-6	2-Hexanone	0.89	U	0.89	25.0	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	5.00	ug/L
106-93-4	1,2-Dibromoethane	0.15	U	0.15	5.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	5.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	5.00	ug/L
100-41-4	Ethyl Benzene	0.13	U	0.13	5.00	ug/L
179601-23-1	m/p-Xylenes	0.24	U	0.24	10.0	ug/L
95-47-6	o-Xylene	0.12	U	0.12	5.00	ug/L
100-42-5	Styrene	0.15	U	0.15	5.00	ug/L
75-25-2	Bromoform	0.19	U	0.19	5.00	ug/L
98-82-8	Isopropylbenzene	0.12	U	0.12	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.26	U	0.26	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.16	U	0.16	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.19	U	0.19	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.16	U	0.16	5.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	0.53	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.20	U	0.20	5.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.20	U	0.20	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	56.5		74 - 125	113%	SPK: 50
1868-53-7	Dibromofluoromethane	52.2		75 - 124	104%	SPK: 50
2037-26-5	Toluene-d8	48.1		86 - 113	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.0		77 - 121	88%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	180000	8.224			
540-36-3	1,4-Difluorobenzene	341000	9.1			
3114-55-4	Chlorobenzene-d5	305000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	129000	13.788			

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-003-01	SDG No.:	Q1664
Lab Sample ID:	Q1664-12	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	SPLP VOA
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086155.D	1		03/28/25 17:06	VN032825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032825\
Data File : VN086155.D
Acq On : 28 Mar 2025 17:06
Operator : JC\MD
Sample : Q1664-12
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-003-01

Quant Time: Mar 28 23:39:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 19 03:20:56 2025
Response via : Initial Calibration

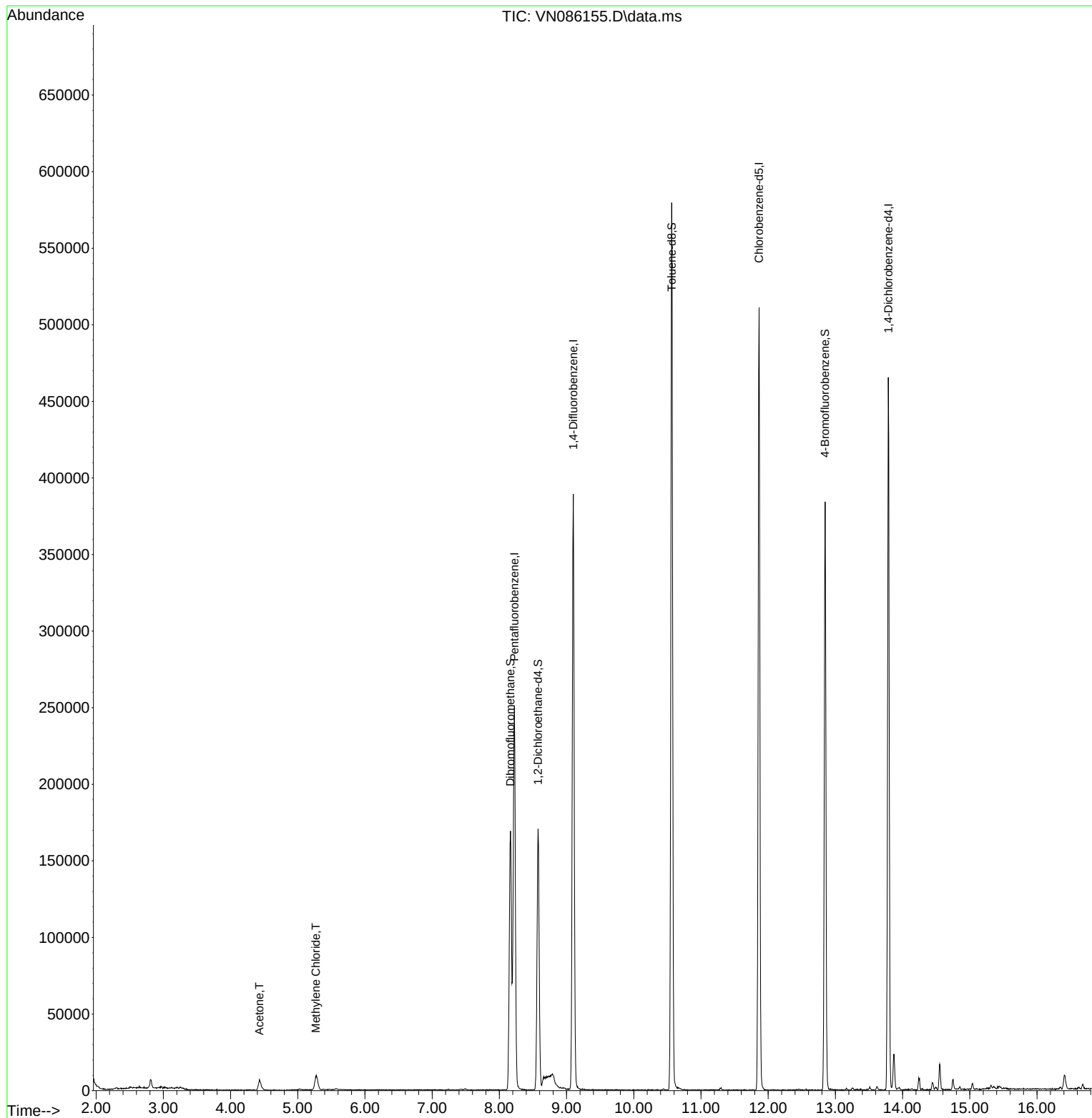
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	180078	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	340614	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	305275	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	129139	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	139439	56.547	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	=	113.100%	
35) Dibromofluoromethane	8.165	113	124066	52.185	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	=	104.360%	
50) Toluene-d8	10.565	98	414603	48.051	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	=	96.100%	
62) 4-Bromofluorobenzene	12.847	95	135528	44.043	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	=	88.080%	
Target Compounds						Qvalue
16) Acetone	4.430	43	12356	16.401	ug/l	96
20) Methylene Chloride	5.271	84	8183	3.713	ug/l	87

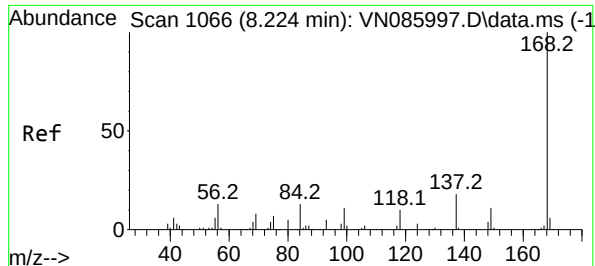
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032825\
Data File : VN086155.D
Acq On : 28 Mar 2025 17:06
Operator : JC\MD
Sample : Q1664-12
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-003-01

Quant Time: Mar 28 23:39:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 19 03:20:56 2025
Response via : Initial Calibration

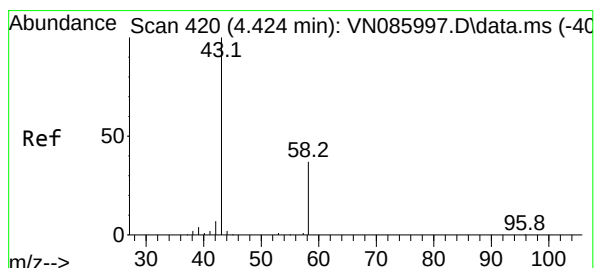
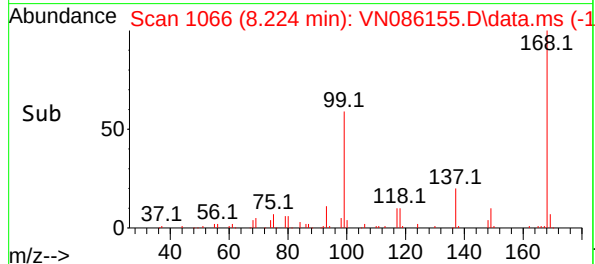
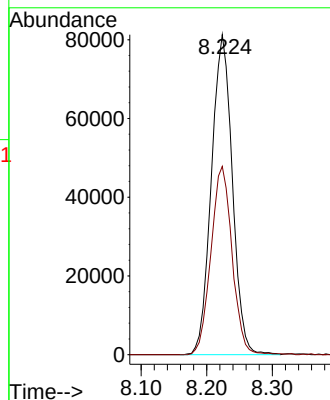
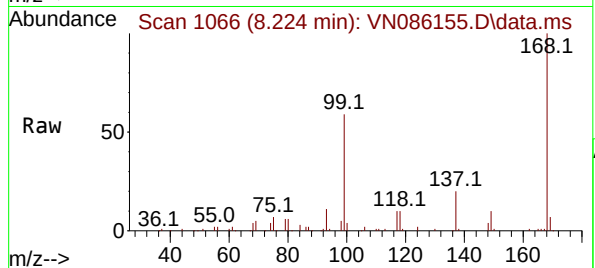




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN086155.D
Acq: 28 Mar 2025 17:06

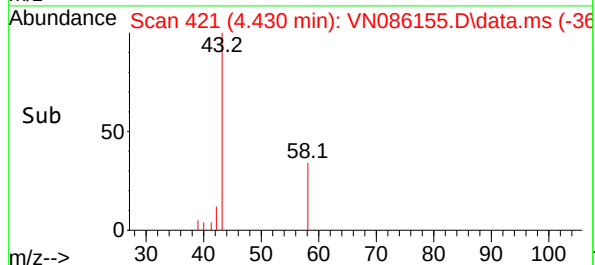
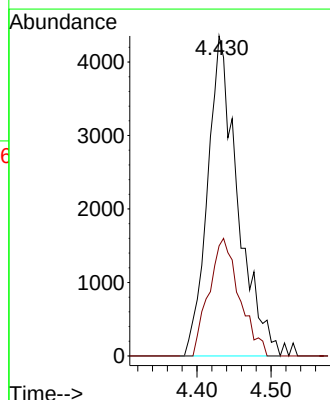
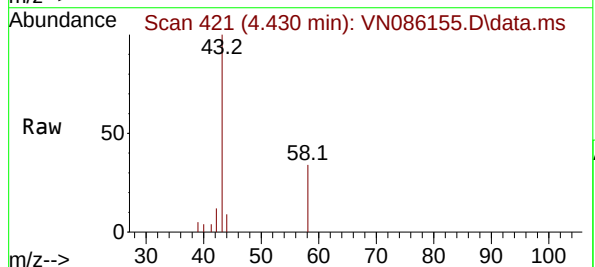
Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-003-01

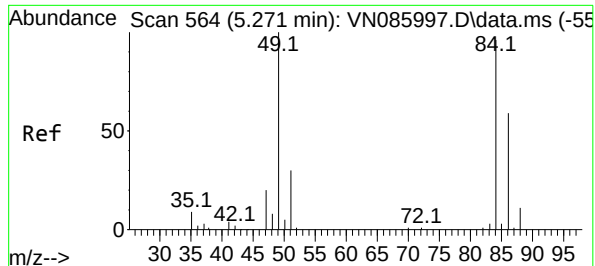
Tgt Ion:168 Resp: 180078
Ion Ratio Lower Upper
168 100
99 58.8 49.4 74.2



#16
Acetone
Concen: 16.401 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.006 min
Lab File: VN086155.D
Acq: 28 Mar 2025 17:06

Tgt Ion: 43 Resp: 12356
Ion Ratio Lower Upper
43 100
58 34.4 29.4 44.2





#20

Methylene Chloride

Concen: 3.713 ug/l

RT: 5.271 min Scan# 5

Delta R.T. -0.000 min

Lab File: VN086155.D

Acq: 28 Mar 2025 17:06

Instrument :

MSVOA_N

ClientSampleId :

P001-BBDGA-003-01

Tgt Ion: 84 Resp: 8183

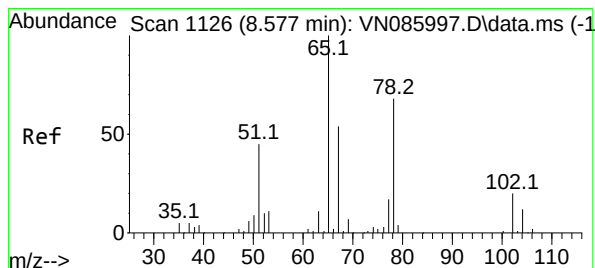
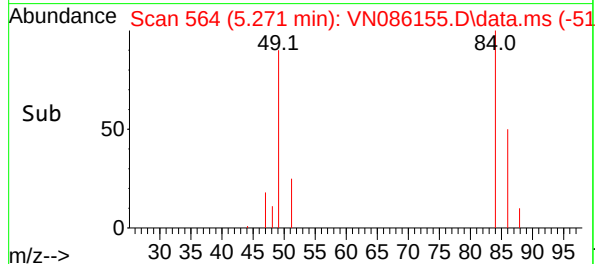
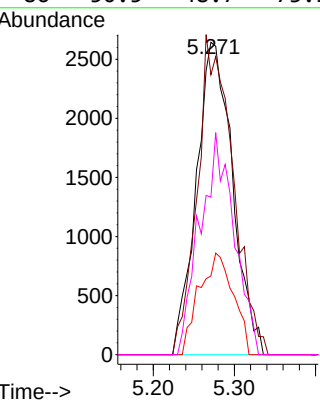
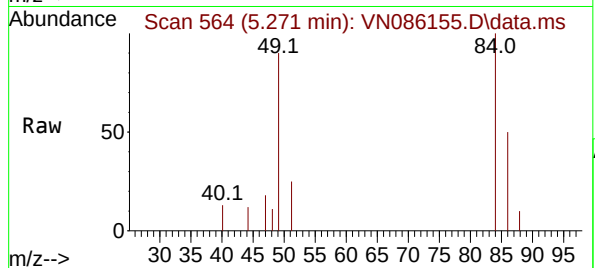
Ion Ratio Lower Upper

84 100

49 89.6 83.3 124.9

51 25.2 24.8 37.2

86 50.5 48.7 73.1



#33

1,2-Dichloroethane-d4

Concen: 56.547 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN086155.D

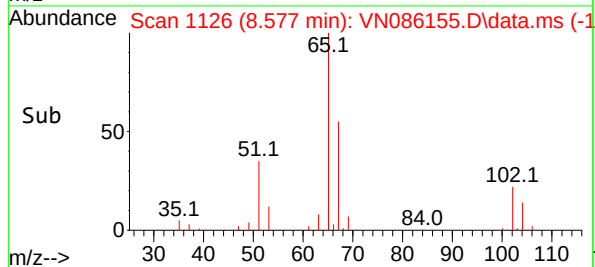
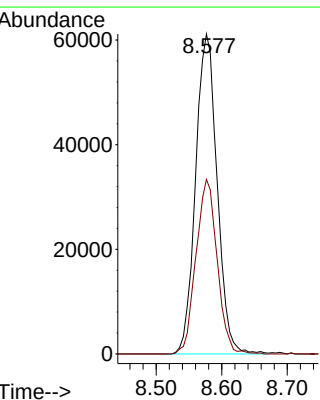
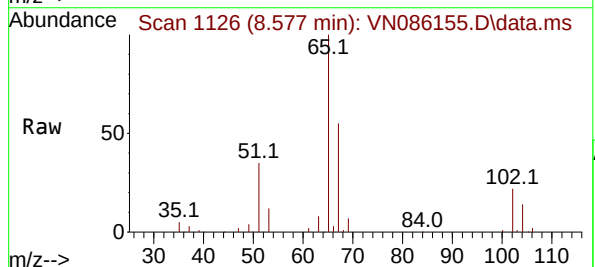
Acq: 28 Mar 2025 17:06

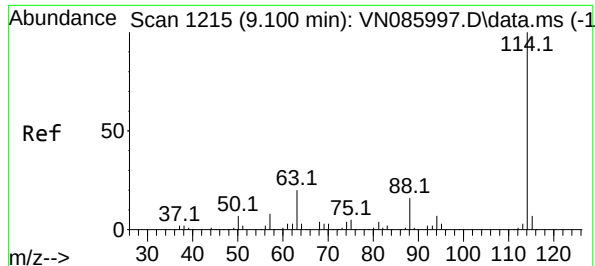
Tgt Ion: 65 Resp: 139439

Ion Ratio Lower Upper

65 100

67 53.7 0.0 102.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN086155.D

Acq: 28 Mar 2025 17:06

Instrument :

MSVOA_N

ClientSampleId :

P001-BBDGA-003-01

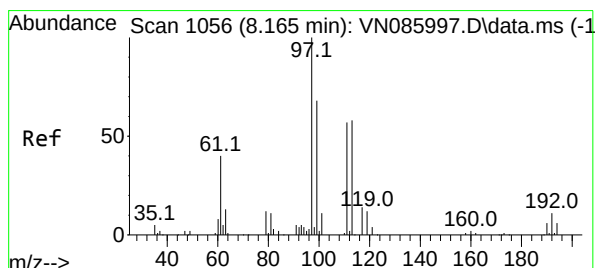
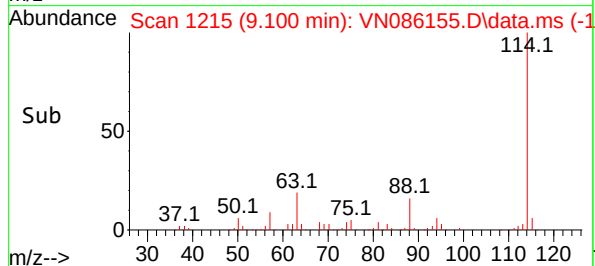
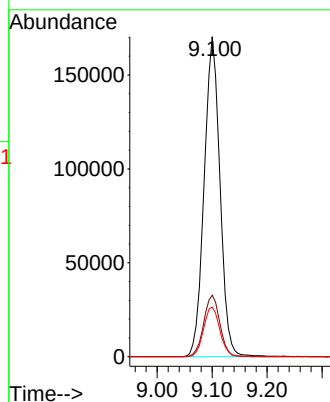
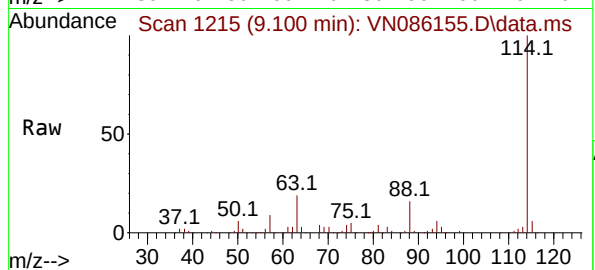
Tgt Ion:114 Resp: 340614

Ion Ratio Lower Upper

114 100

63 19.2 0.0 39.6

88 15.5 0.0 32.6



#35

Dibromofluoromethane

Concen: 52.185 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086155.D

Acq: 28 Mar 2025 17:06

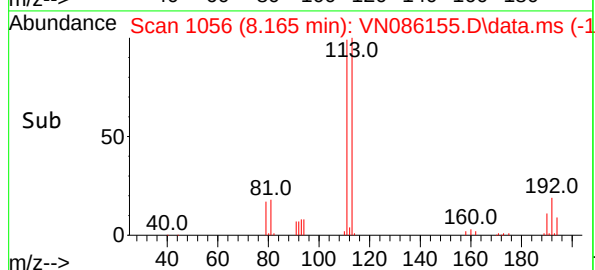
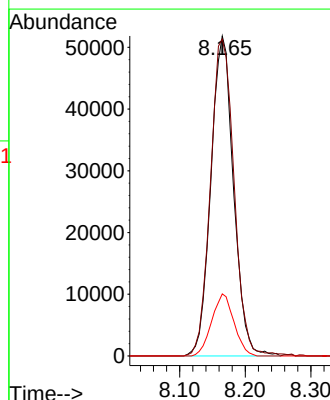
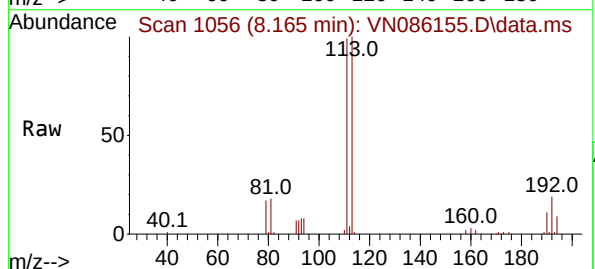
Tgt Ion:113 Resp: 124066

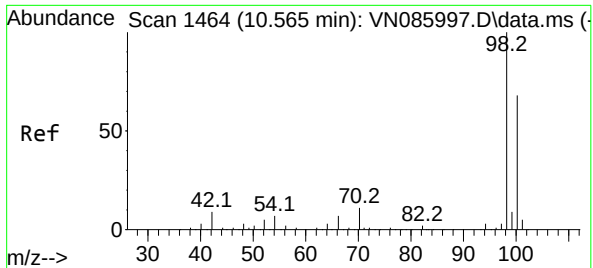
Ion Ratio Lower Upper

113 100

111 103.3 81.8 122.8

192 19.0 15.9 23.9

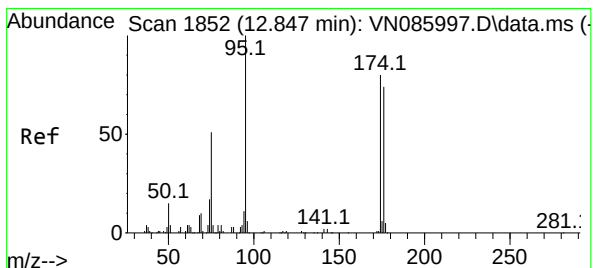
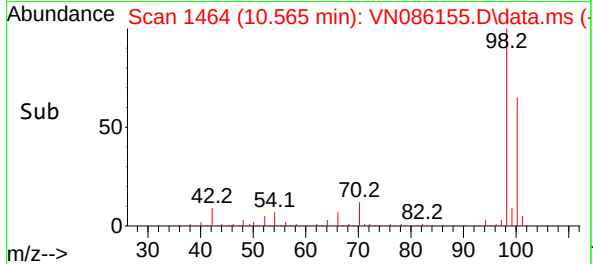
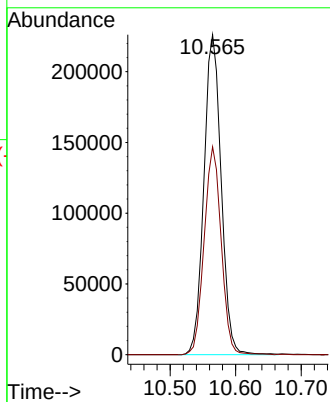
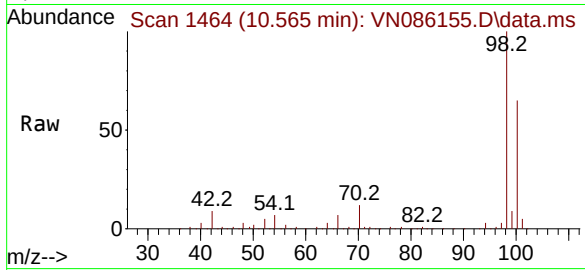




#50
Toluene-d8
Concen: 48.051 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086155.D
Acq: 28 Mar 2025 17:06

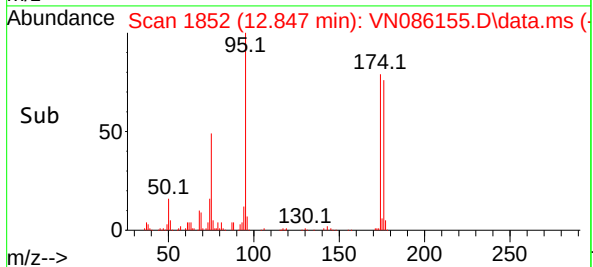
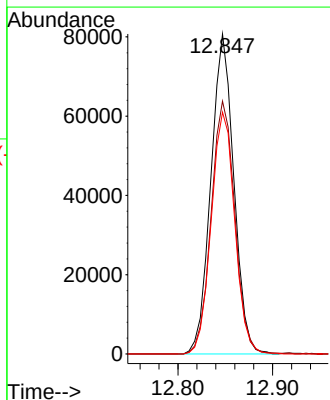
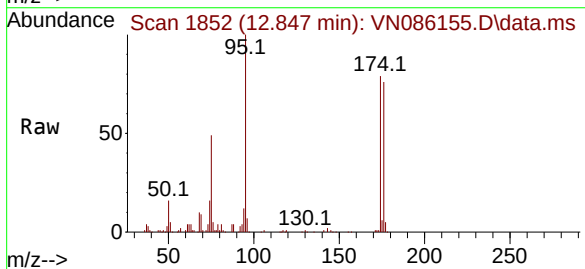
Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-003-01

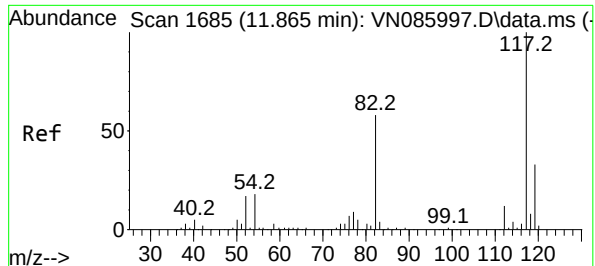
Tgt Ion: 98 Resp: 414603
Ion Ratio Lower Upper
98 100
100 64.1 53.1 79.7



#62
4-Bromofluorobenzene
Concen: 44.043 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086155.D
Acq: 28 Mar 2025 17:06

Tgt Ion: 95 Resp: 135528
Ion Ratio Lower Upper
95 100
174 81.8 0.0 156.8
176 77.7 0.0 152.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086155.D

Acq: 28 Mar 2025 17:06

Instrument :

MSVOA_N

ClientSampleId :

P001-BBDGA-003-01

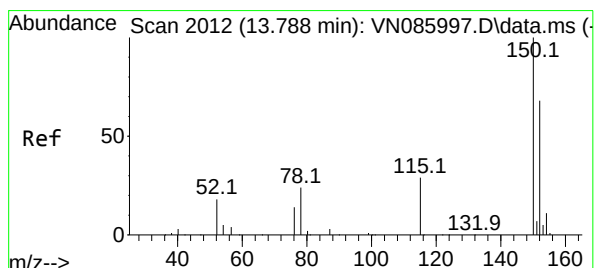
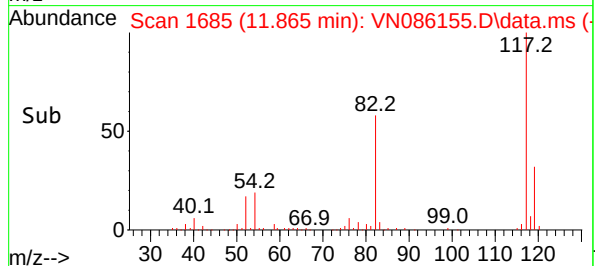
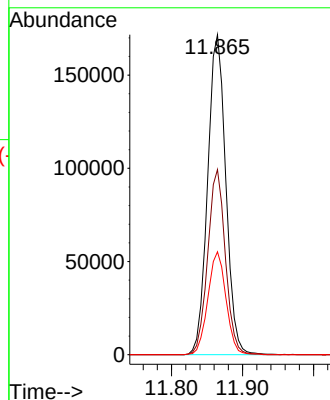
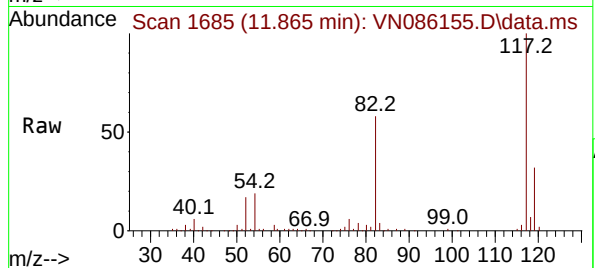
Tgt Ion:117 Resp: 305275

Ion Ratio Lower Upper

117 100

82 57.9 46.7 70.1

119 32.1 26.5 39.7



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. -0.000 min

Lab File: VN086155.D

Acq: 28 Mar 2025 17:06

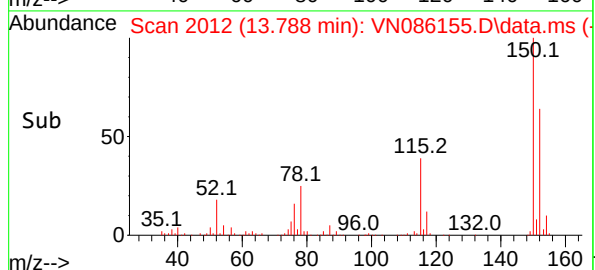
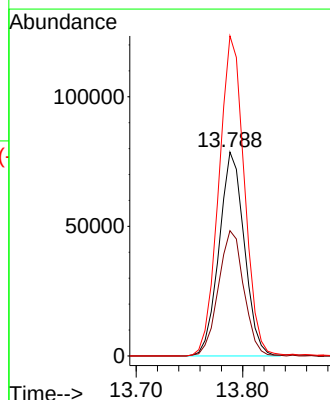
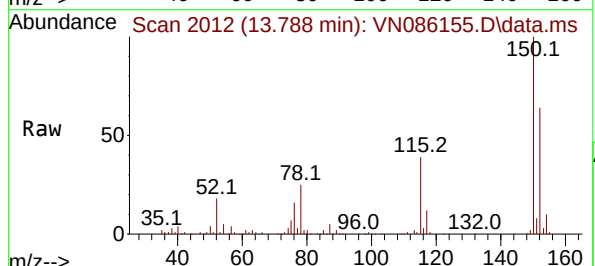
Tgt Ion:152 Resp: 129139

Ion Ratio Lower Upper

152 100

115 61.9 31.1 93.2

150 159.4 0.0 359.6



Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	03/26/25	
Project:	RFP 905		Date Received:	03/27/25	
Client Sample ID:	P001-BBDGA-004-01		SDG No.:	Q1664	
Lab Sample ID:	Q1664-14		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	SPLP VOA	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086156.D	1		03/28/25 17:30	VN032825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.22	U	0.22	5.00	ug/L
74-87-3	Chloromethane	0.32	U	0.32	5.00	ug/L
75-01-4	Vinyl Chloride	0.26	U	0.26	5.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.47	U	0.47	5.00	ug/L
75-69-4	Trichlorofluoromethane	0.33	U	0.33	5.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	5.00	ug/L
67-64-1	Acetone	15.3	J	1.50	25.0	ug/L
75-15-0	Carbon Disulfide	0.21	U	0.21	5.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	5.00	ug/L
79-20-9	Methyl Acetate	0.27	U	0.27	5.00	ug/L
75-09-2	Methylene Chloride	3.60	J	0.28	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.23	U	0.23	5.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	5.00	ug/L
110-82-7	Cyclohexane	1.50	U	1.50	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	5.00	ug/L
74-97-5	Bromochloromethane	0.22	U	0.22	5.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	5.00	ug/L
108-87-2	Methylcyclohexane	0.16	U	0.16	5.00	ug/L
71-43-2	Benzene	0.15	U	0.15	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	5.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	5.00	ug/L
78-87-5	1,2-Dichloropropane	0.20	U	0.20	5.00	ug/L
75-27-4	Bromodichloromethane	0.22	U	0.22	5.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.68	U	0.68	25.0	ug/L
108-88-3	Toluene	0.14	U	0.14	5.00	ug/L

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	03/26/25	
Project:	RFP 905		Date Received:	03/27/25	
Client Sample ID:	P001-BBDGA-004-01		SDG No.:	Q1664	
Lab Sample ID:	Q1664-14		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	SPLP VOA	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086156.D	1		03/28/25 17:30	VN032825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.17	U	0.17	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.16	U	0.16	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	5.00	ug/L
591-78-6	2-Hexanone	0.89	U	0.89	25.0	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	5.00	ug/L
106-93-4	1,2-Dibromoethane	0.15	U	0.15	5.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	5.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	5.00	ug/L
100-41-4	Ethyl Benzene	0.13	U	0.13	5.00	ug/L
179601-23-1	m/p-Xylenes	0.24	U	0.24	10.0	ug/L
95-47-6	o-Xylene	0.12	U	0.12	5.00	ug/L
100-42-5	Styrene	0.15	U	0.15	5.00	ug/L
75-25-2	Bromoform	0.19	U	0.19	5.00	ug/L
98-82-8	Isopropylbenzene	0.12	U	0.12	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.26	U	0.26	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.16	U	0.16	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.19	U	0.19	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.16	U	0.16	5.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	0.53	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.20	U	0.20	5.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.20	U	0.20	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	57.6		74 - 125	115%	SPK: 50
1868-53-7	Dibromofluoromethane	53.5		75 - 124	107%	SPK: 50
2037-26-5	Toluene-d8	48.7		86 - 113	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.5		77 - 121	91%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	177000	8.224			
540-36-3	1,4-Difluorobenzene	334000	9.1			
3114-55-4	Chlorobenzene-d5	305000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	130000	13.788			

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-004-01	SDG No.:	Q1664
Lab Sample ID:	Q1664-14	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5	Units:	mL
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086156.D	1		03/28/25 17:30	VN032825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032825\
Data File : VN086156.D
Acq On : 28 Mar 2025 17:30
Operator : JC\MD
Sample : Q1664-14
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-004-01

Quant Time: Mar 28 23:39:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 19 03:20:56 2025
Response via : Initial Calibration

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

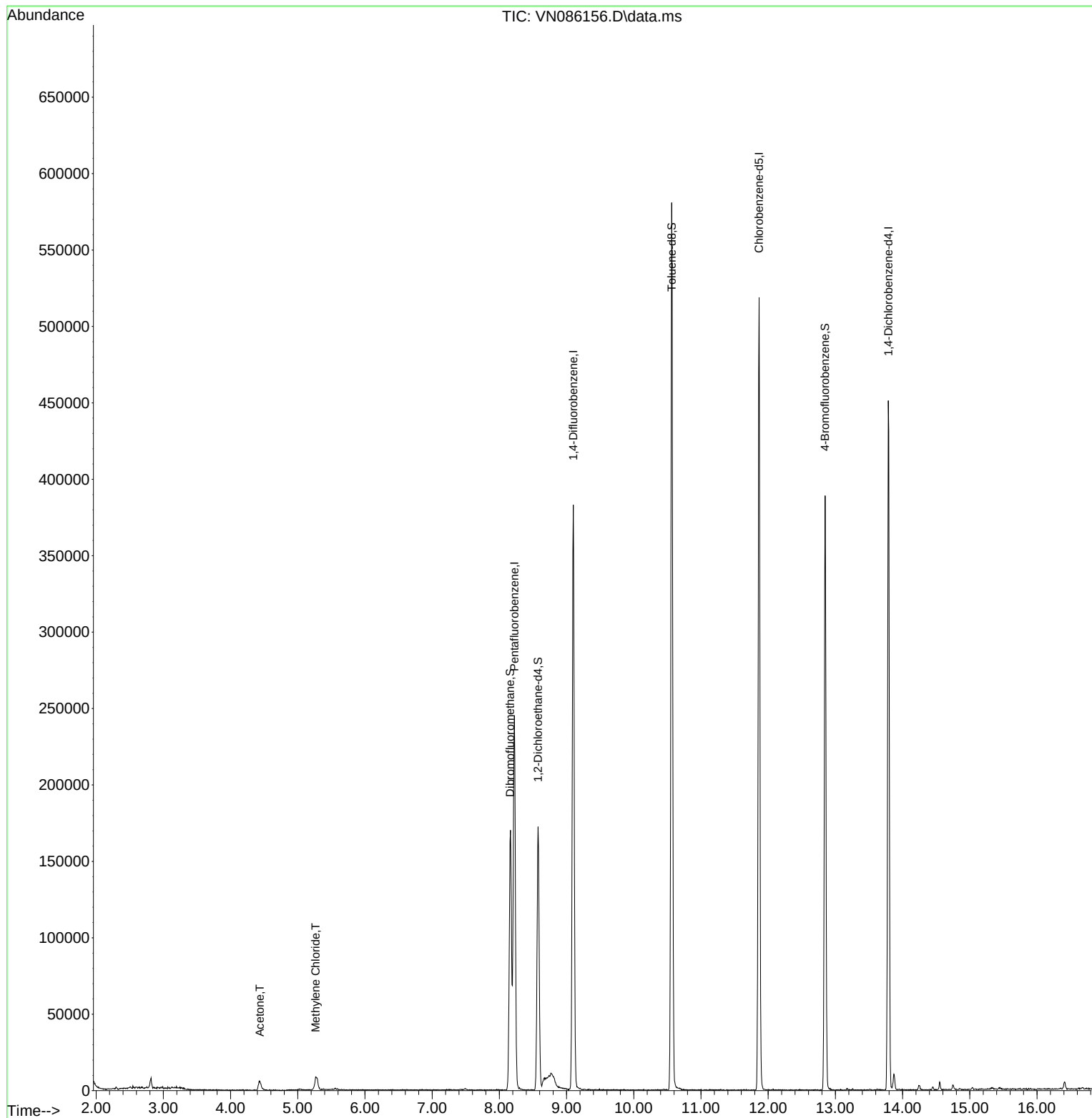
Internal Standards						
1) Pentafluorobenzene	8.224	168	176706	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	334362	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	305366	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	129697	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	139326	57.580	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	=	115.160%	
35) Dibromofluoromethane	8.159	113	124774	53.464	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	=	106.920%	
50) Toluene-d8	10.565	98	412094	48.653	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	=	97.300%	
62) 4-Bromofluorobenzene	12.847	95	137582	45.547	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	=	91.100%	
Target Compounds						Qvalue
16) Acetone	4.436	43	11274	15.251	ug/l	96
20) Methylene Chloride	5.265	84	7732	3.575	ug/l	87

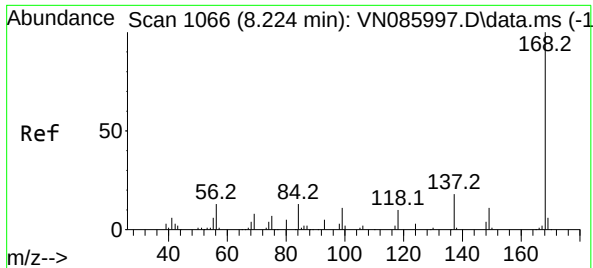
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032825\
Data File : VN086156.D
Acq On : 28 Mar 2025 17:30
Operator : JC\MD
Sample : Q1664-14
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-004-01

Quant Time: Mar 28 23:39:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 19 03:20:56 2025
Response via : Initial Calibration

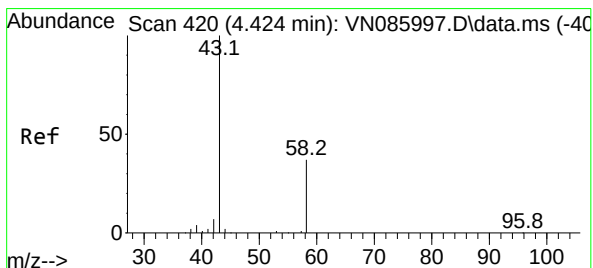
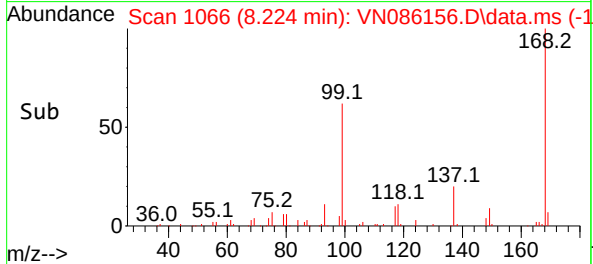
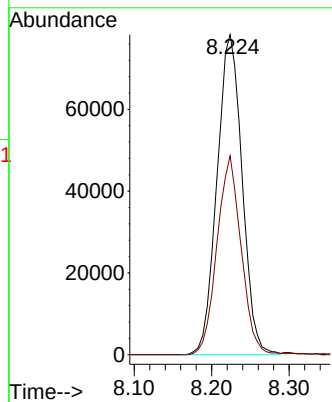
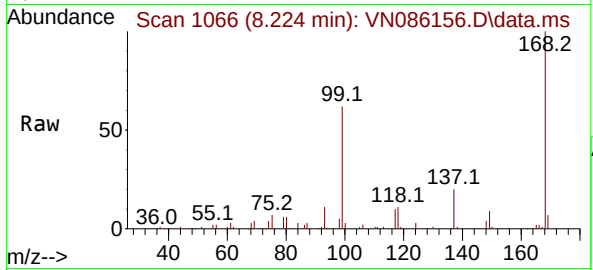




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN086156.D
Acq: 28 Mar 2025 17:30

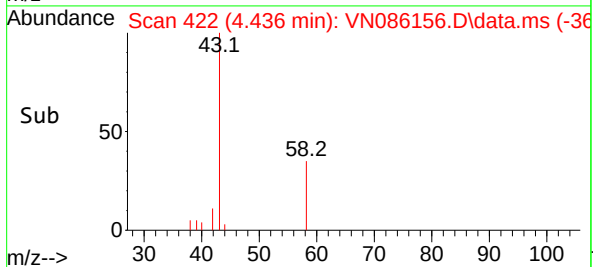
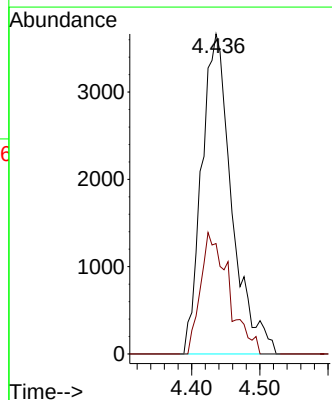
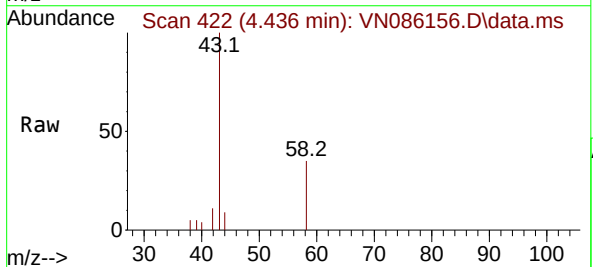
Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-004-01

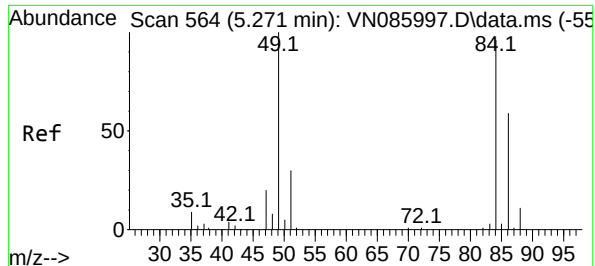
Tgt Ion:168 Resp: 176706
Ion Ratio Lower Upper
168 100
99 62.2 49.4 74.2



#16
Acetone
Concen: 15.251 ug/l
RT: 4.436 min Scan# 422
Delta R.T. 0.012 min
Lab File: VN086156.D
Acq: 28 Mar 2025 17:30

Tgt Ion: 43 Resp: 11274
Ion Ratio Lower Upper
43 100
58 34.5 29.4 44.2





#20

Methylene Chloride

Concen: 3.575 ug/l

RT: 5.265 min Scan# 51

Delta R.T. -0.006 min

Lab File: VN086156.D

Acq: 28 Mar 2025 17:30

Instrument :

MSVOA_N

ClientSampleId :

P001-BBDGA-004-01

Tgt Ion: 84 Resp: 7732

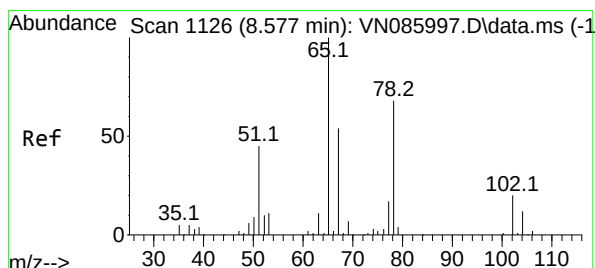
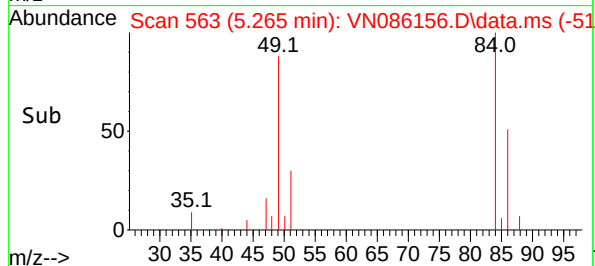
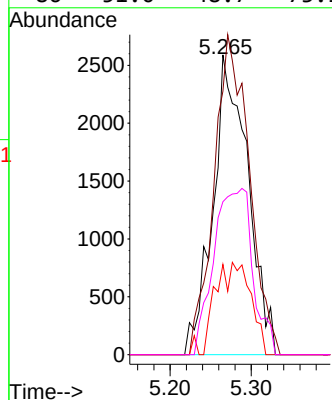
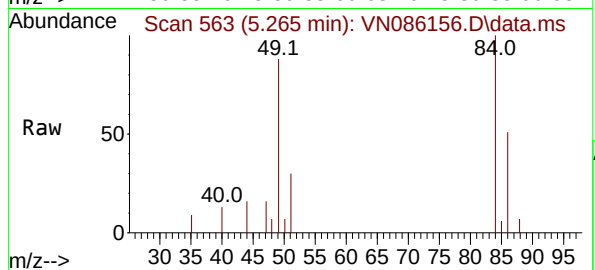
Ion Ratio Lower Upper

84 100

49 87.9 83.3 124.9

51 30.1 24.8 37.2

86 51.0 48.7 73.1



#33

1,2-Dichloroethane-d4

Concen: 57.580 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN086156.D

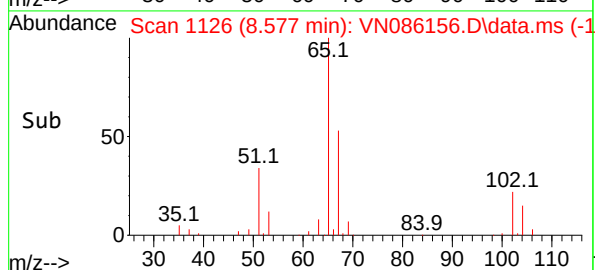
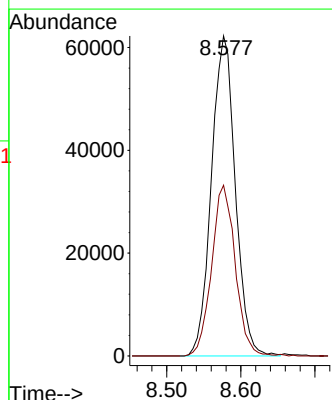
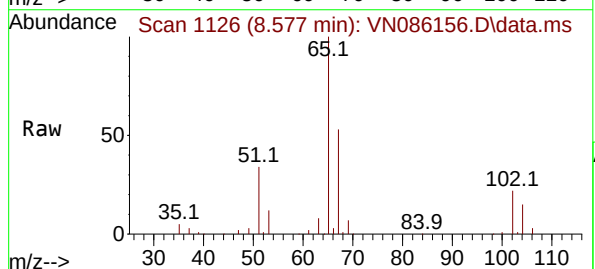
Acq: 28 Mar 2025 17:30

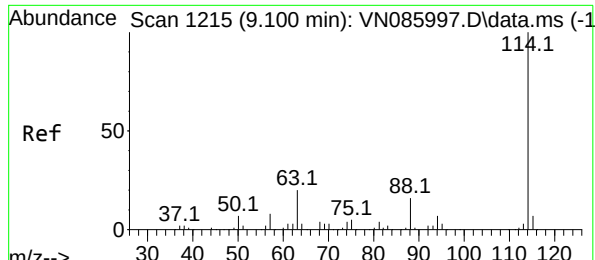
Tgt Ion: 65 Resp: 139326

Ion Ratio Lower Upper

65 100

67 52.6 0.0 102.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN086156.D

Acq: 28 Mar 2025 17:30

Instrument :

MSVOA_N

ClientSampleId :

P001-BBDGA-004-01

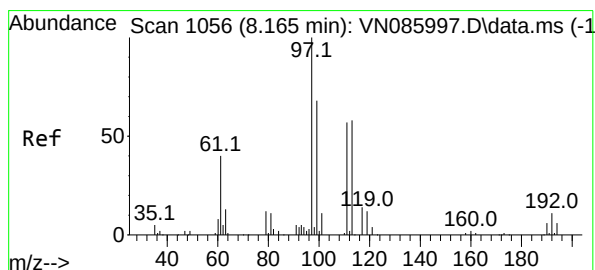
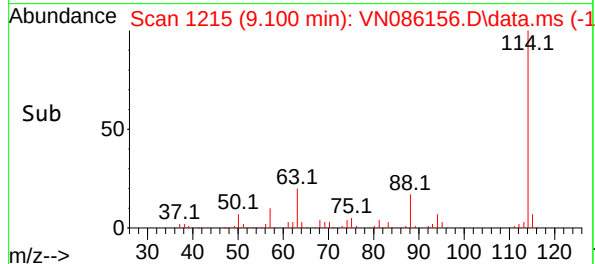
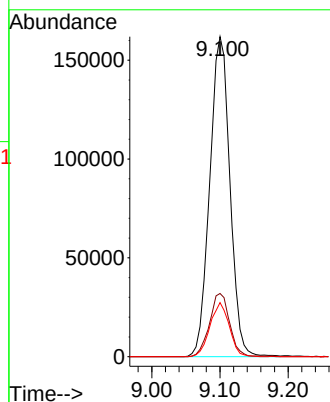
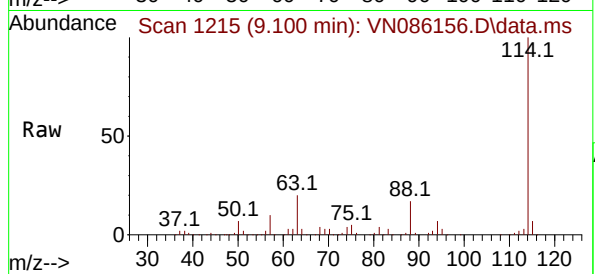
Tgt Ion:114 Resp: 334362

Ion Ratio Lower Upper

114 100

63 19.8 0.0 39.6

88 16.9 0.0 32.6



#35

Dibromofluoromethane

Concen: 53.464 ug/l

RT: 8.159 min Scan# 1055

Delta R.T. -0.006 min

Lab File: VN086156.D

Acq: 28 Mar 2025 17:30

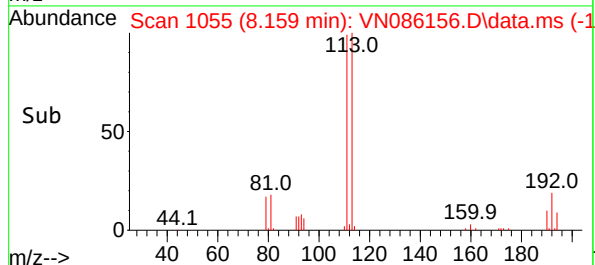
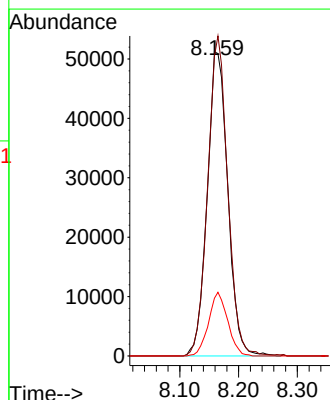
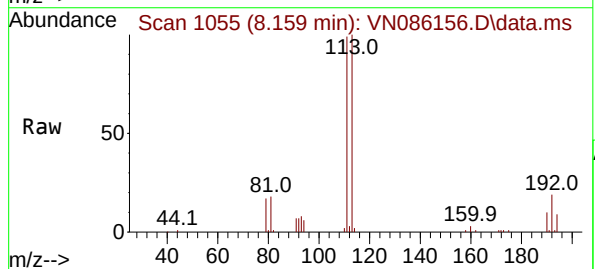
Tgt Ion:113 Resp: 124774

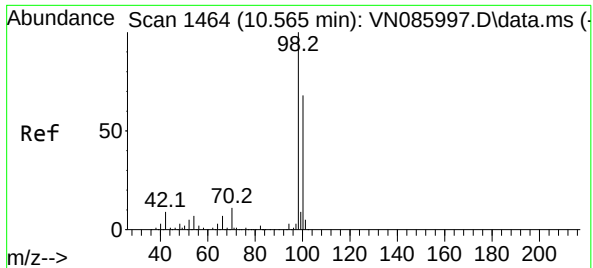
Ion Ratio Lower Upper

113 100

111 101.9 81.8 122.8

192 19.4 15.9 23.9

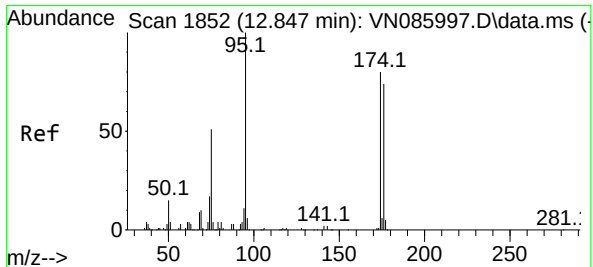
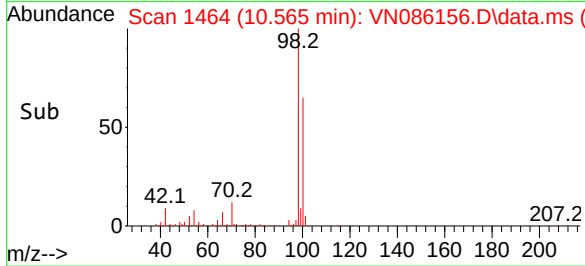
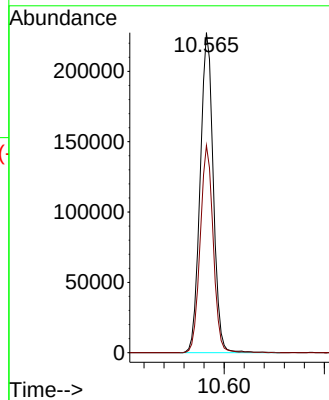
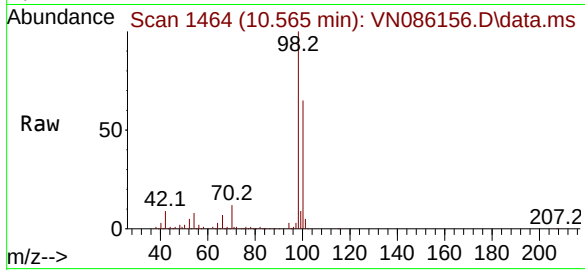




#50
Toluene-d8
Concen: 48.653 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086156.D
Acq: 28 Mar 2025 17:30

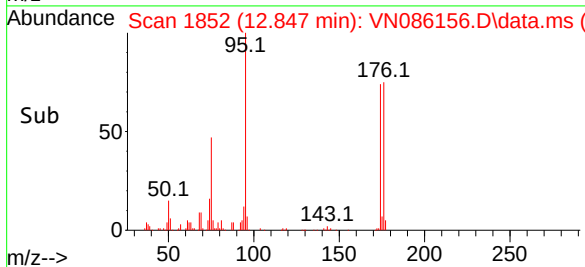
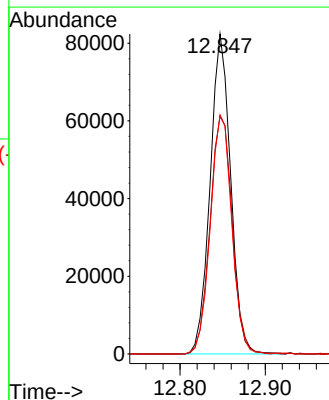
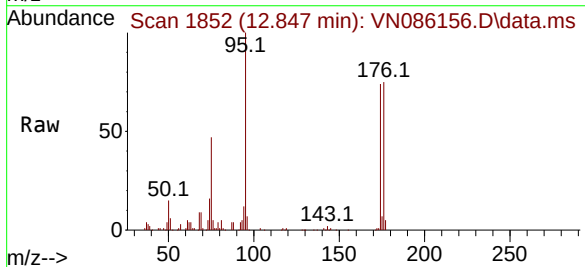
Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-004-01

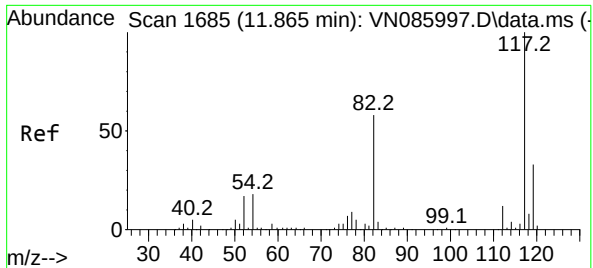
Tgt Ion: 98 Resp: 412094
Ion Ratio Lower Upper
98 100
100 64.2 53.1 79.7



#62
4-Bromofluorobenzene
Concen: 45.547 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086156.D
Acq: 28 Mar 2025 17:30

Tgt Ion: 95 Resp: 137582
Ion Ratio Lower Upper
95 100
174 80.5 0.0 156.8
176 78.0 0.0 152.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086156.D

Acq: 28 Mar 2025 17:30

Instrument :

MSVOA_N

ClientSampleId :

P001-BBDGA-004-01

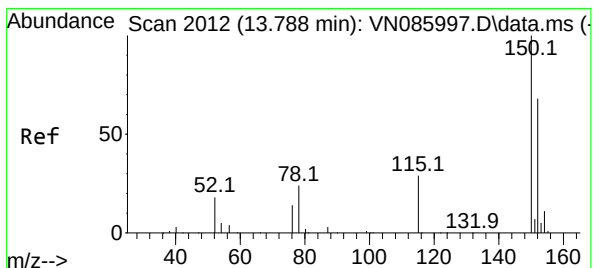
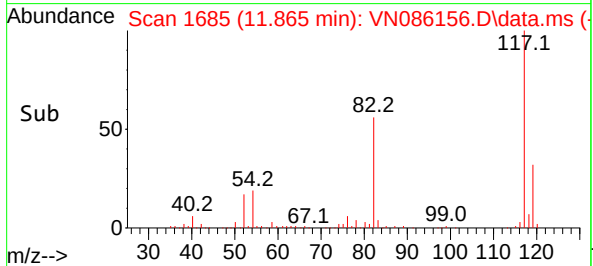
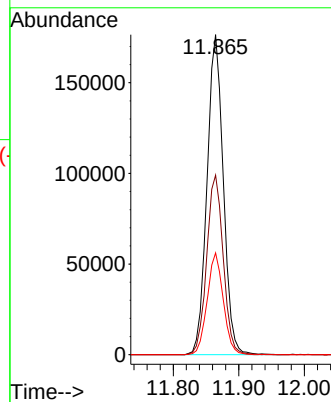
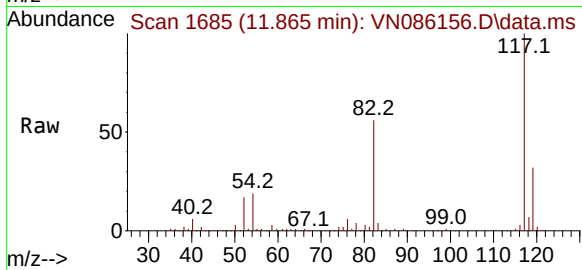
Tgt Ion:117 Resp: 305366

Ion Ratio Lower Upper

117 100

82 56.1 46.7 70.1

119 31.8 26.5 39.7



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. -0.000 min

Lab File: VN086156.D

Acq: 28 Mar 2025 17:30

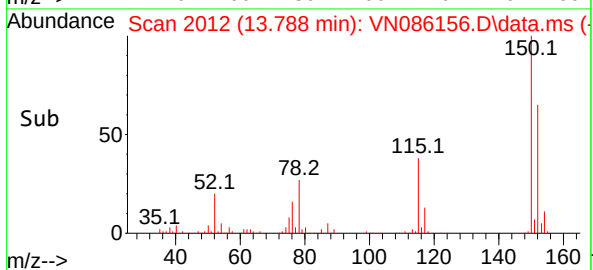
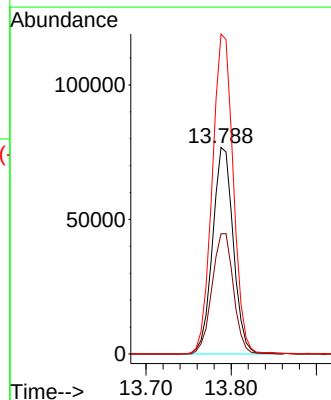
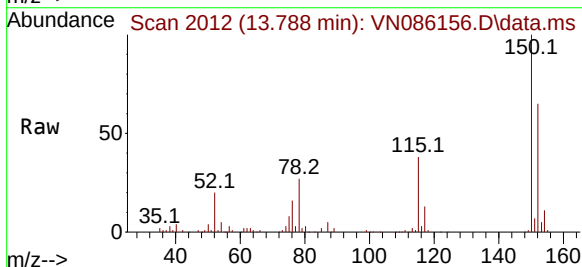
Tgt Ion:152 Resp: 129697

Ion Ratio Lower Upper

152 100

115 60.3 31.1 93.2

150 157.7 0.0 359.6



Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	03/26/25	
Project:	RFP 905		Date Received:	03/27/25	
Client Sample ID:	P001-BBDGA-005-01		SDG No.:	Q1664	
Lab Sample ID:	Q1664-16		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	SPLP VOA	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086157.D	1		03/28/25 17:54	VN032825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.22	U	0.22	5.00	ug/L
74-87-3	Chloromethane	0.32	U	0.32	5.00	ug/L
75-01-4	Vinyl Chloride	0.26	U	0.26	5.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.47	U	0.47	5.00	ug/L
75-69-4	Trichlorofluoromethane	0.33	U	0.33	5.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	5.00	ug/L
67-64-1	Acetone	14.9	J	1.50	25.0	ug/L
75-15-0	Carbon Disulfide	0.21	U	0.21	5.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	5.00	ug/L
79-20-9	Methyl Acetate	0.27	U	0.27	5.00	ug/L
75-09-2	Methylene Chloride	3.30	J	0.28	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.23	U	0.23	5.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	5.00	ug/L
110-82-7	Cyclohexane	1.50	U	1.50	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	5.00	ug/L
74-97-5	Bromochloromethane	0.22	U	0.22	5.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	5.00	ug/L
108-87-2	Methylcyclohexane	0.16	U	0.16	5.00	ug/L
71-43-2	Benzene	0.15	U	0.15	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	5.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	5.00	ug/L
78-87-5	1,2-Dichloropropane	0.20	U	0.20	5.00	ug/L
75-27-4	Bromodichloromethane	0.22	U	0.22	5.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.68	U	0.68	25.0	ug/L
108-88-3	Toluene	0.14	U	0.14	5.00	ug/L

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	03/26/25	
Project:	RFP 905		Date Received:	03/27/25	
Client Sample ID:	P001-BBDGA-005-01		SDG No.:	Q1664	
Lab Sample ID:	Q1664-16		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	SPLP VOA	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086157.D	1		03/28/25 17:54	VN032825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.17	U	0.17	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.16	U	0.16	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	5.00	ug/L
591-78-6	2-Hexanone	0.89	U	0.89	25.0	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	5.00	ug/L
106-93-4	1,2-Dibromoethane	0.15	U	0.15	5.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	5.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	5.00	ug/L
100-41-4	Ethyl Benzene	0.13	U	0.13	5.00	ug/L
179601-23-1	m/p-Xylenes	0.24	U	0.24	10.0	ug/L
95-47-6	o-Xylene	0.12	U	0.12	5.00	ug/L
100-42-5	Styrene	0.15	U	0.15	5.00	ug/L
75-25-2	Bromoform	0.19	U	0.19	5.00	ug/L
98-82-8	Isopropylbenzene	0.12	U	0.12	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.26	U	0.26	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.16	U	0.16	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.19	U	0.19	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.16	U	0.16	5.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	0.53	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.20	U	0.20	5.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.20	U	0.20	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	57.3		74 - 125	115%	SPK: 50
1868-53-7	Dibromofluoromethane	52.8		75 - 124	106%	SPK: 50
2037-26-5	Toluene-d8	49.0		86 - 113	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.4		77 - 121	91%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	178000	8.224			
540-36-3	1,4-Difluorobenzene	335000	9.1			
3114-55-4	Chlorobenzene-d5	307000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	131000	13.788			

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	03/26/25	
Project:	RFP 905		Date Received:	03/27/25	
Client Sample ID:	P001-BBDGA-005-01		SDG No.:	Q1664	
Lab Sample ID:	Q1664-16		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	SPLP VOA	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086157.D	1		03/28/25 17:54	VN032825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032825\
Data File : VN086157.D
Acq On : 28 Mar 2025 17:54
Operator : JC\MD
Sample : Q1664-16
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-005-01

Quant Time: Mar 28 23:39:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 19 03:20:56 2025
Response via : Initial Calibration

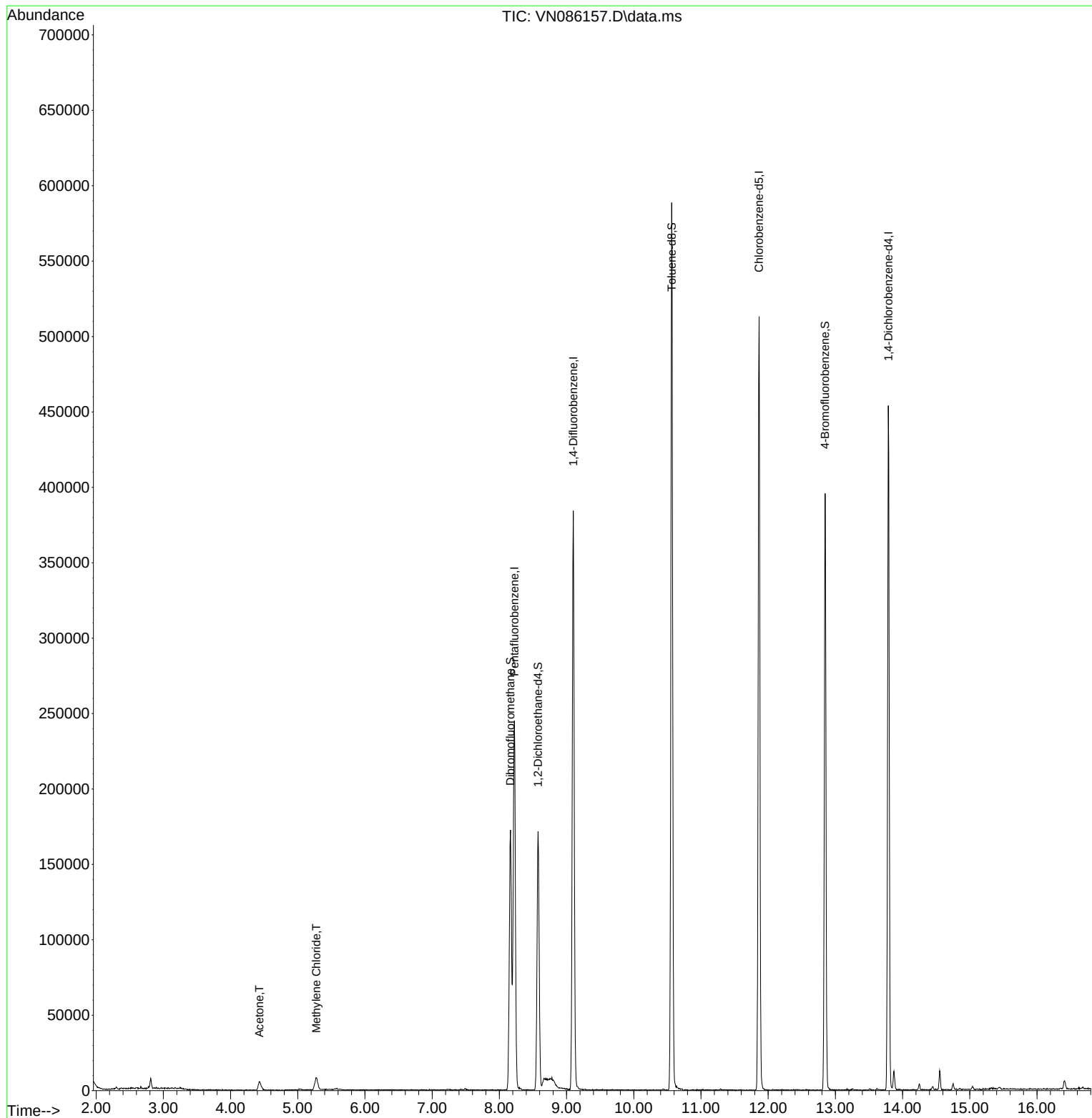
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	178122	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	334940	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	306507	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	131137	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	139783	57.309	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	114.620%
35) Dibromofluoromethane	8.165	113	123503	52.828	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	105.660%
50) Toluene-d8	10.565	98	415768	49.002	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	98.000%
62) 4-Bromofluorobenzene	12.847	95	137224	45.350	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	90.700%
Target Compounds						Qvalue
16) Acetone	4.430	43	11107	14.905	ug/l #	87
20) Methylene Chloride	5.277	84	7206	3.306	ug/l #	93

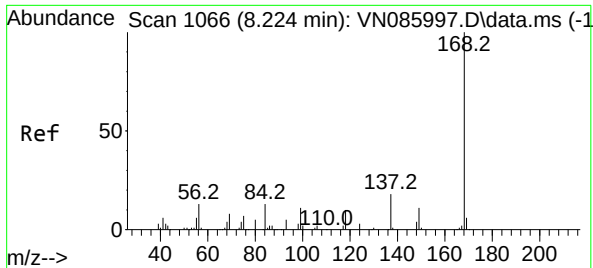
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032825\
Data File : VN086157.D
Acq On : 28 Mar 2025 17:54
Operator : JC\MD
Sample : Q1664-16
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-005-01

Quant Time: Mar 28 23:39:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 19 03:20:56 2025
Response via : Initial Calibration

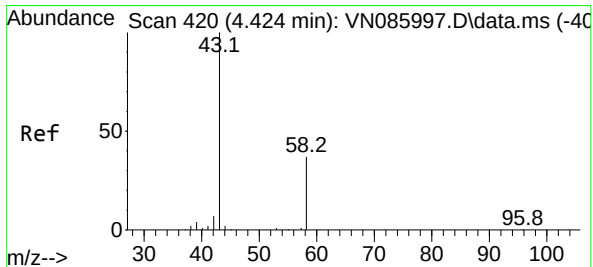
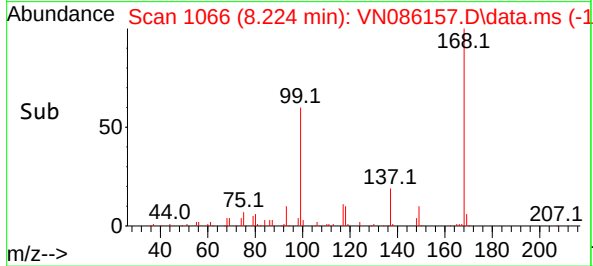
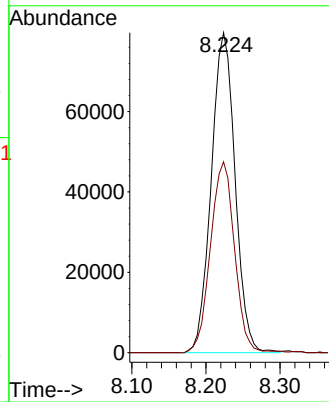
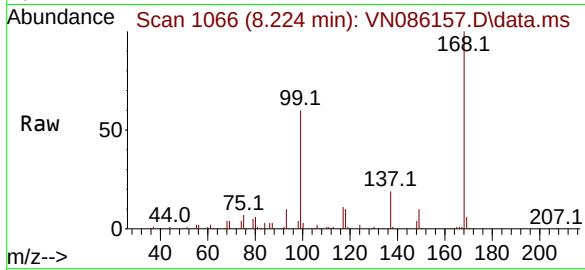




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN086157.D
Acq: 28 Mar 2025 17:54

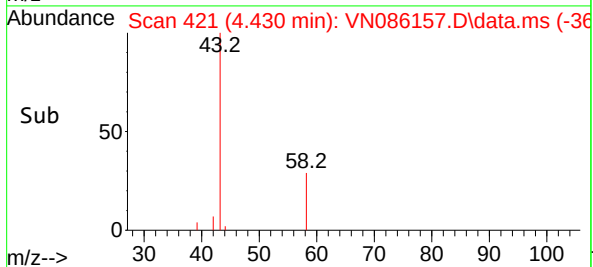
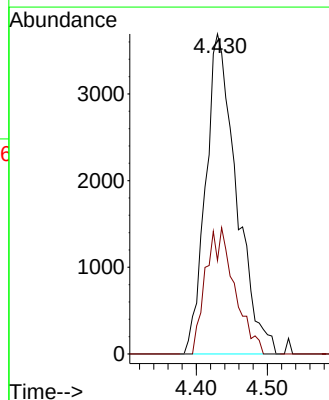
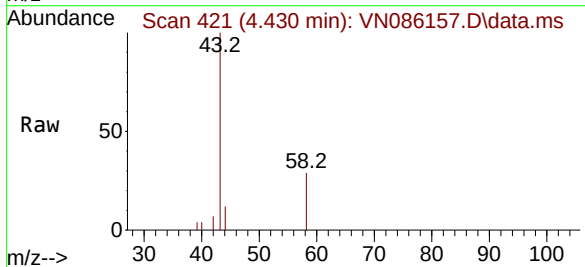
Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-005-01

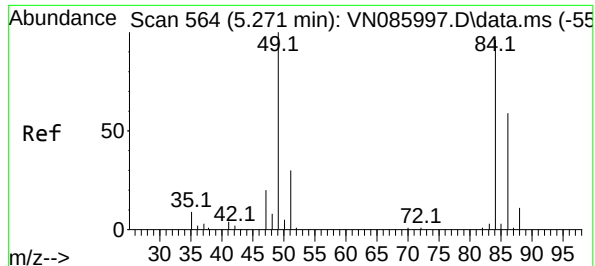
Tgt Ion:168 Resp: 178122
Ion Ratio Lower Upper
168 100
99 59.6 49.4 74.2



#16
Acetone
Concen: 14.905 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.006 min
Lab File: VN086157.D
Acq: 28 Mar 2025 17:54

Tgt Ion: 43 Resp: 11107
Ion Ratio Lower Upper
43 100
58 29.2 29.4 44.2#





#20

Methylene Chloride

Concen: 3.306 ug/l

RT: 5.277 min Scan# 51

Delta R.T. 0.006 min

Lab File: VN086157.D

Acq: 28 Mar 2025 17:54

Instrument :

MSVOA_N

ClientSampleId :

P001-BBDGA-005-01

Tgt Ion: 84 Resp: 7206

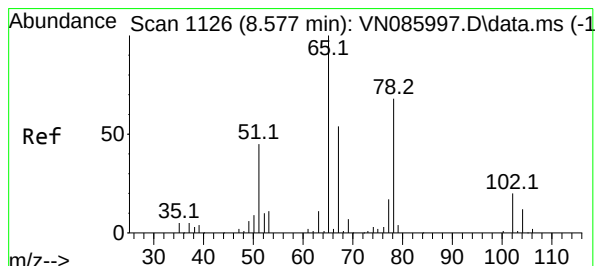
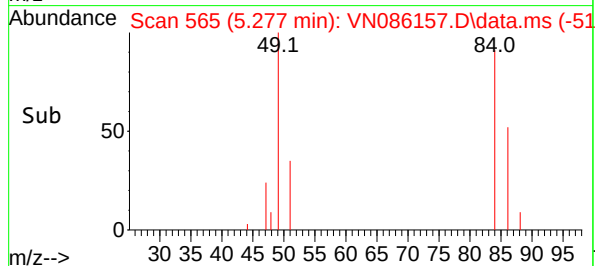
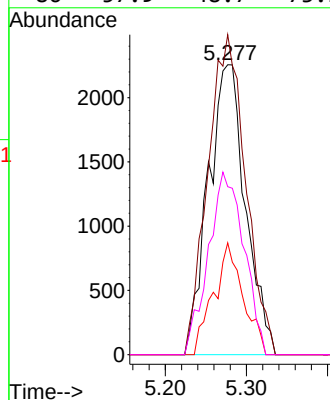
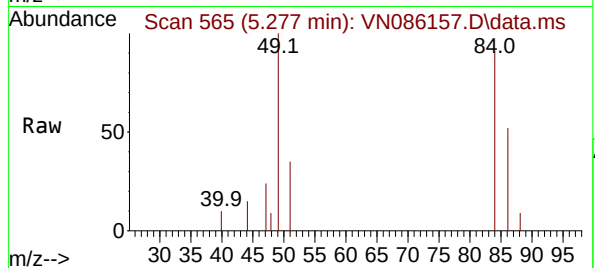
Ion Ratio Lower Upper

84 100

49 110.4 83.3 124.9

51 38.6 24.8 37.2#

86 57.9 48.7 73.1



#33

1,2-Dichloroethane-d4

Concen: 57.309 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN086157.D

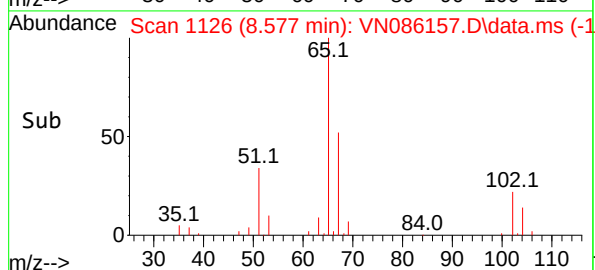
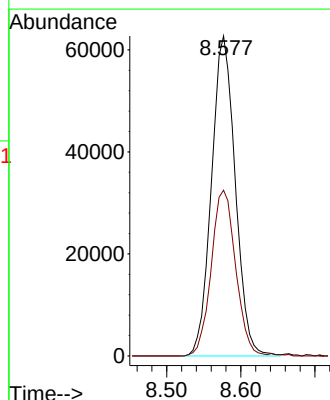
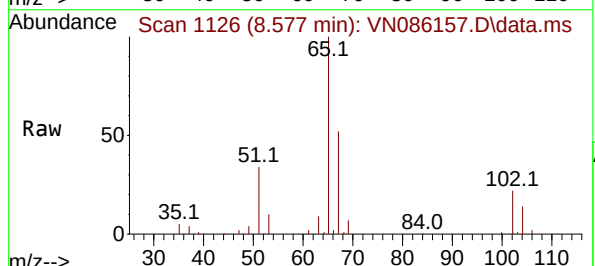
Acq: 28 Mar 2025 17:54

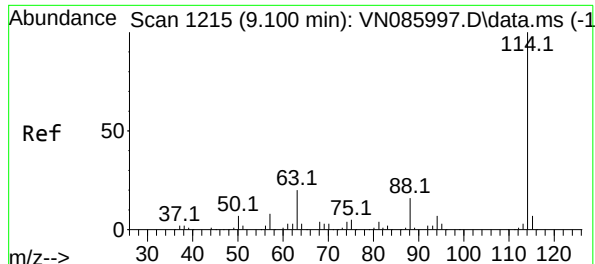
Tgt Ion: 65 Resp: 139783

Ion Ratio Lower Upper

65 100

67 53.1 0.0 102.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086157.D

Acq: 28 Mar 2025 17:54

Instrument :

MSVOA_N

ClientSampleId :

P001-BBDGA-005-01

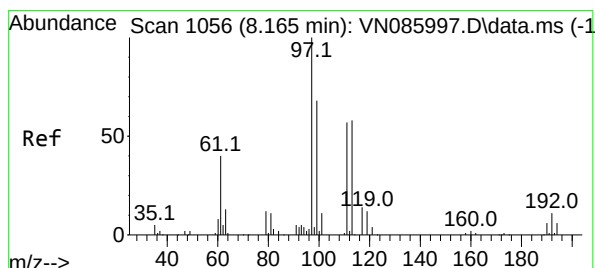
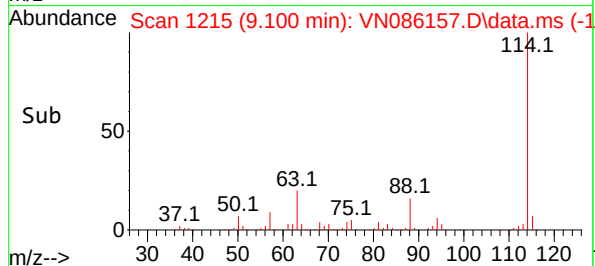
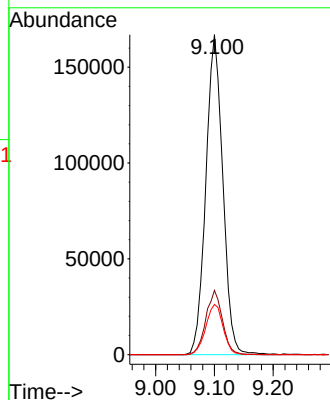
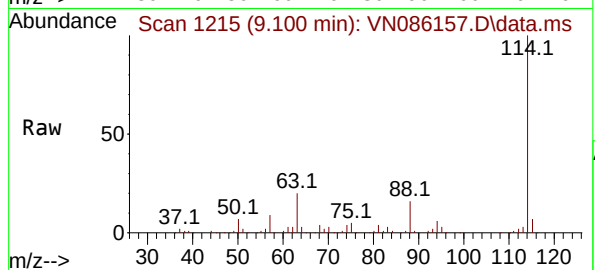
Tgt Ion:114 Resp: 334940

Ion Ratio Lower Upper

114 100

63 20.1 0.0 39.6

88 15.7 0.0 32.6



#35

Dibromofluoromethane

Concen: 52.828 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086157.D

Acq: 28 Mar 2025 17:54

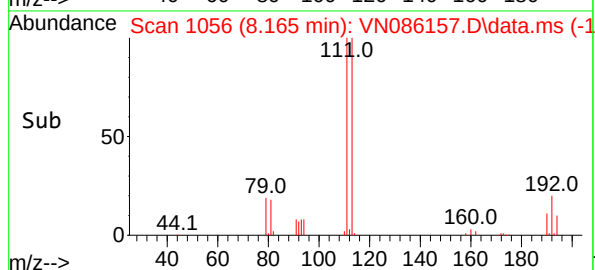
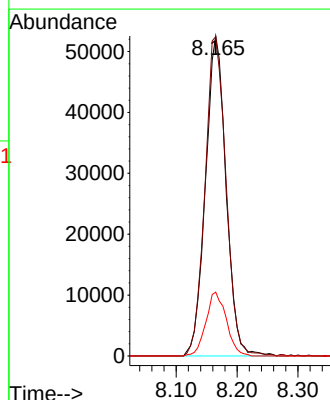
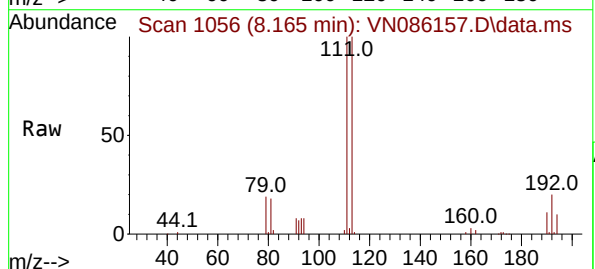
Tgt Ion:113 Resp: 123503

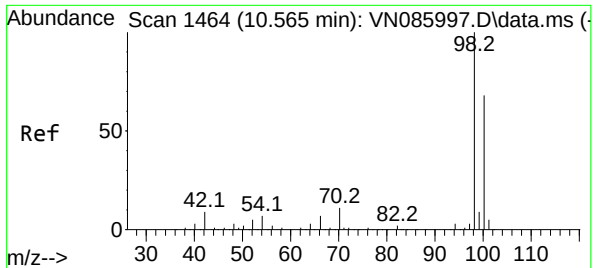
Ion Ratio Lower Upper

113 100

111 101.7 81.8 122.8

192 19.8 15.9 23.9

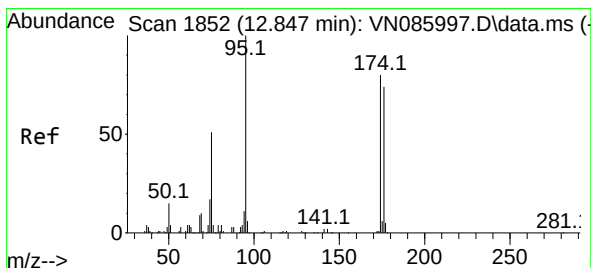
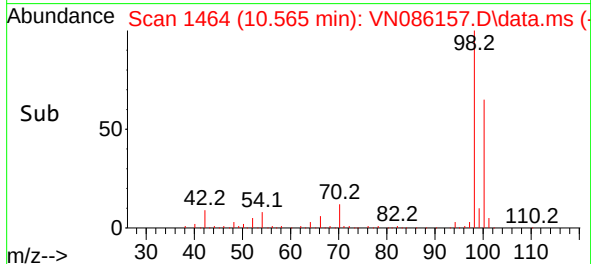
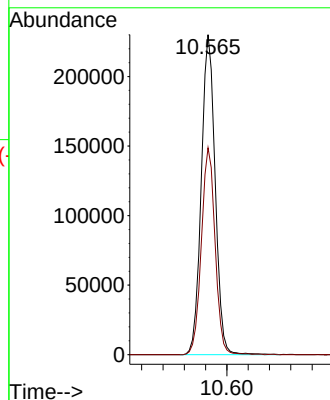
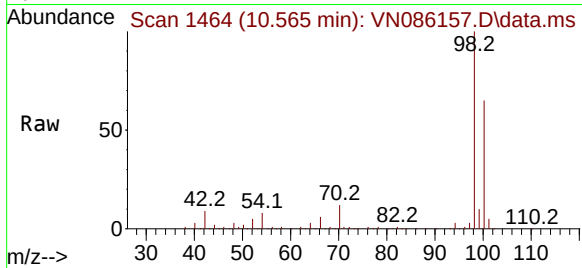




#50
Toluene-d8
Concen: 49.002 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086157.D
Acq: 28 Mar 2025 17:54

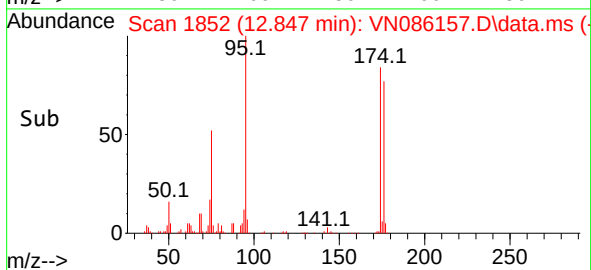
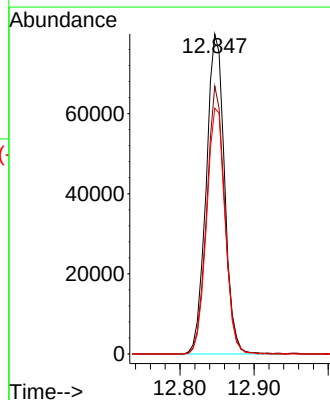
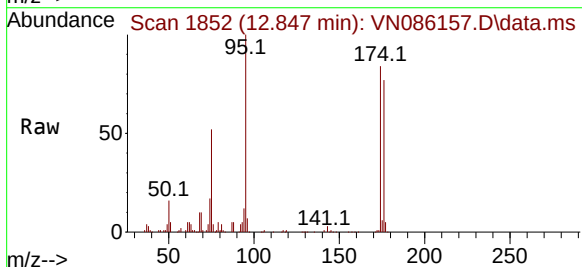
Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-005-01

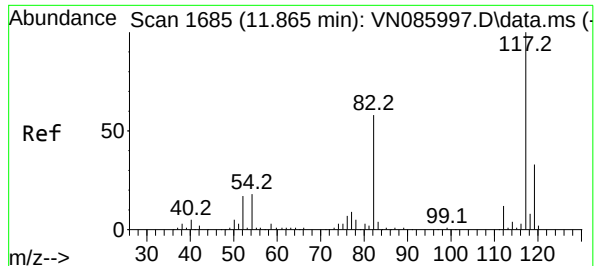
Tgt Ion: 98 Resp: 415768
Ion Ratio Lower Upper
98 100
100 64.0 53.1 79.7



#62
4-Bromofluorobenzene
Concen: 45.350 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086157.D
Acq: 28 Mar 2025 17:54

Tgt Ion: 95 Resp: 137224
Ion Ratio Lower Upper
95 100
174 82.1 0.0 156.8
176 77.5 0.0 152.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086157.D

Acq: 28 Mar 2025 17:54

Instrument :

MSVOA_N

ClientSampleId :

P001-BBDGA-005-01

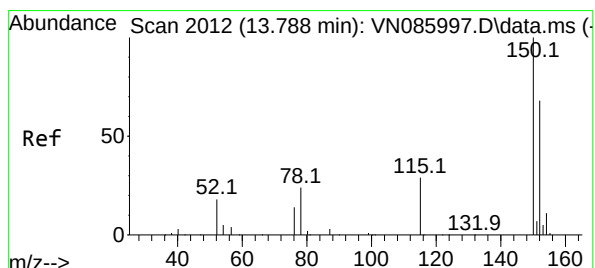
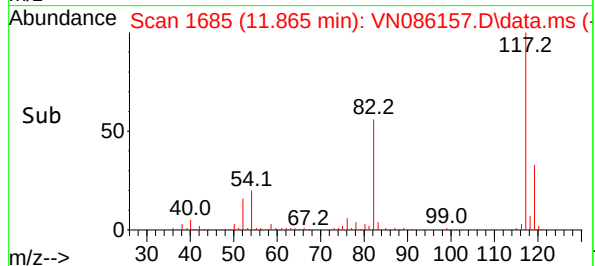
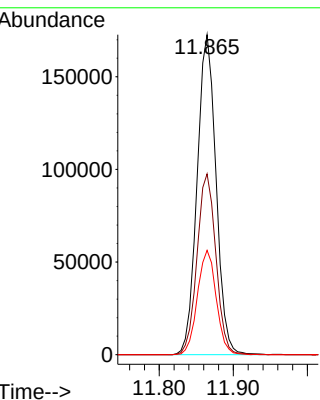
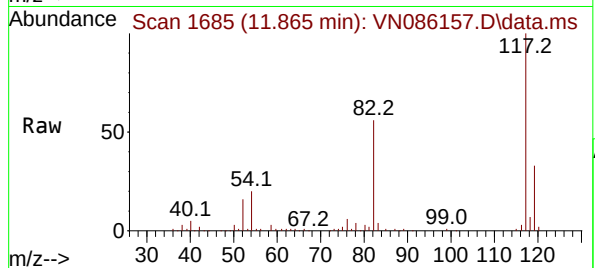
Tgt Ion:117 Resp: 306507

Ion Ratio Lower Upper

117 100

82 56.5 46.7 70.1

119 32.6 26.5 39.7



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. -0.000 min

Lab File: VN086157.D

Acq: 28 Mar 2025 17:54

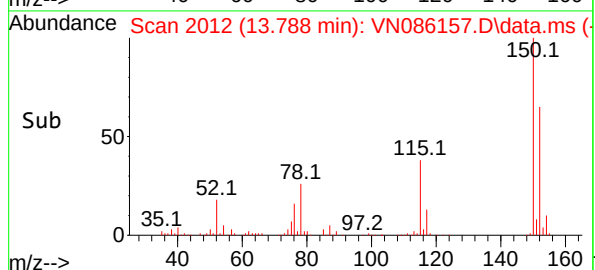
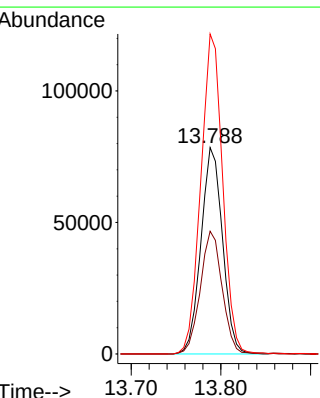
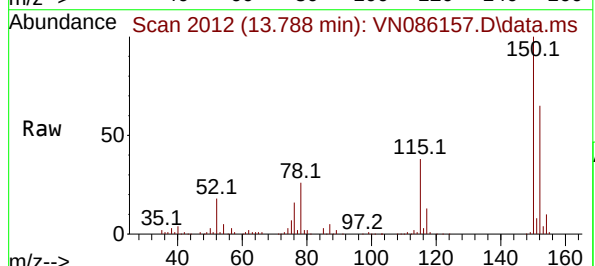
Tgt Ion:152 Resp: 131137

Ion Ratio Lower Upper

152 100

115 60.0 31.1 93.2

150 156.6 0.0 359.6



Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	03/26/25	
Project:	RFP 905		Date Received:	03/27/25	
Client Sample ID:	P001-BBDGA-006-01		SDG No.:	Q1664	
Lab Sample ID:	Q1664-18		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	SPLP VOA	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086158.D	1		03/28/25 18:18	VN032825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.22	U	0.22	5.00	ug/L
74-87-3	Chloromethane	0.32	U	0.32	5.00	ug/L
75-01-4	Vinyl Chloride	0.26	U	0.26	5.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.47	U	0.47	5.00	ug/L
75-69-4	Trichlorofluoromethane	0.33	U	0.33	5.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	5.00	ug/L
67-64-1	Acetone	15.5	J	1.50	25.0	ug/L
75-15-0	Carbon Disulfide	0.21	U	0.21	5.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	5.00	ug/L
79-20-9	Methyl Acetate	0.27	U	0.27	5.00	ug/L
75-09-2	Methylene Chloride	3.50	J	0.28	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.23	U	0.23	5.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	5.00	ug/L
110-82-7	Cyclohexane	1.50	U	1.50	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	5.00	ug/L
74-97-5	Bromochloromethane	0.22	U	0.22	5.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	5.00	ug/L
108-87-2	Methylcyclohexane	0.16	U	0.16	5.00	ug/L
71-43-2	Benzene	0.15	U	0.15	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	5.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	5.00	ug/L
78-87-5	1,2-Dichloropropane	0.20	U	0.20	5.00	ug/L
75-27-4	Bromodichloromethane	0.22	U	0.22	5.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.68	U	0.68	25.0	ug/L
108-88-3	Toluene	0.14	U	0.14	5.00	ug/L

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	03/26/25	
Project:	RFP 905		Date Received:	03/27/25	
Client Sample ID:	P001-BBDGA-006-01		SDG No.:	Q1664	
Lab Sample ID:	Q1664-18		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	SPLP VOA	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086158.D	1		03/28/25 18:18	VN032825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.17	U	0.17	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.16	U	0.16	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	5.00	ug/L
591-78-6	2-Hexanone	0.89	U	0.89	25.0	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	5.00	ug/L
106-93-4	1,2-Dibromoethane	0.15	U	0.15	5.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	5.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	5.00	ug/L
100-41-4	Ethyl Benzene	0.13	U	0.13	5.00	ug/L
179601-23-1	m/p-Xylenes	0.24	U	0.24	10.0	ug/L
95-47-6	o-Xylene	0.12	U	0.12	5.00	ug/L
100-42-5	Styrene	0.15	U	0.15	5.00	ug/L
75-25-2	Bromoform	0.19	U	0.19	5.00	ug/L
98-82-8	Isopropylbenzene	0.12	U	0.12	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.26	U	0.26	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.16	U	0.16	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.19	U	0.19	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.16	U	0.16	5.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	0.53	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.20	U	0.20	5.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.20	U	0.20	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	59.0		74 - 125	118%	SPK: 50
1868-53-7	Dibromofluoromethane	52.9		75 - 124	106%	SPK: 50
2037-26-5	Toluene-d8	48.1		86 - 113	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.1		77 - 121	90%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	172000	8.224			
540-36-3	1,4-Difluorobenzene	330000	9.1			
3114-55-4	Chlorobenzene-d5	299000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	127000	13.788			

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	03/26/25	
Project:	RFP 905		Date Received:	03/27/25	
Client Sample ID:	P001-BBDGA-006-01		SDG No.:	Q1664	
Lab Sample ID:	Q1664-18		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	SPLP VOA	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086158.D	1		03/28/25 18:18	VN032825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032825\
Data File : VN086158.D
Acq On : 28 Mar 2025 18:18
Operator : JC\MD
Sample : Q1664-18
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-006-01

Quant Time: Mar 28 23:39:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 19 03:20:56 2025
Response via : Initial Calibration

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

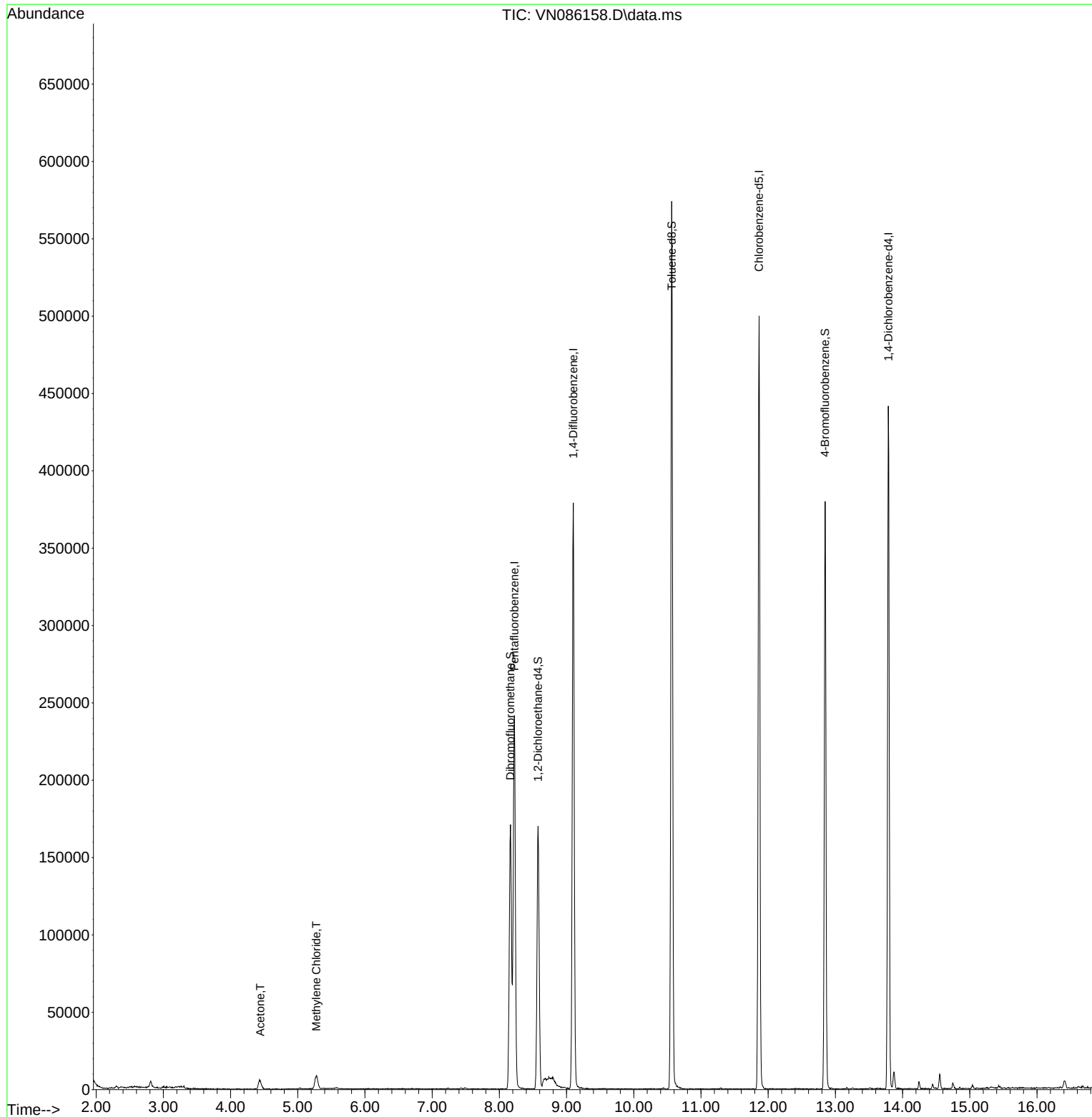
Internal Standards						
1) Pentafluorobenzene	8.224	168	171958	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	329552	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	299256	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	126533	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	138990	59.027	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	=	118.060%	
35) Dibromofluoromethane	8.165	113	121631	52.878	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	=	105.760%	
50) Toluene-d8	10.565	98	401580	48.104	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	=	96.200%	
62) 4-Bromofluorobenzene	12.847	95	134138	45.055	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	=	90.100%	
Target Compounds						
16) Acetone	4.442	43	11163	15.518	ug/l	93
20) Methylene Chloride	5.277	84	7291	3.464	ug/l	98

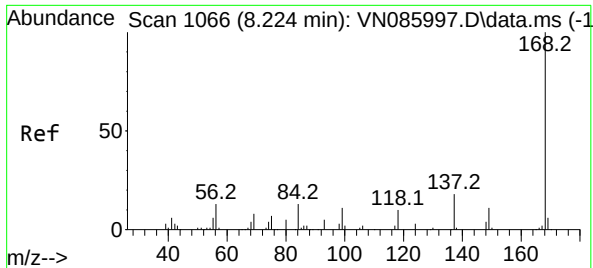
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032825\
Data File : VN086158.D
Acq On : 28 Mar 2025 18:18
Operator : JC\MD
Sample : Q1664-18
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-006-01

Quant Time: Mar 28 23:39:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 19 03:20:56 2025
Response via : Initial Calibration

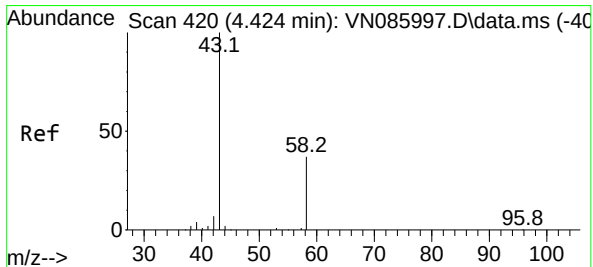
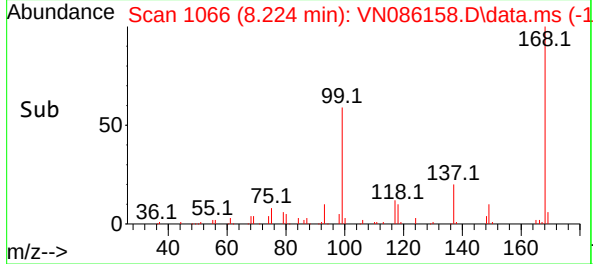
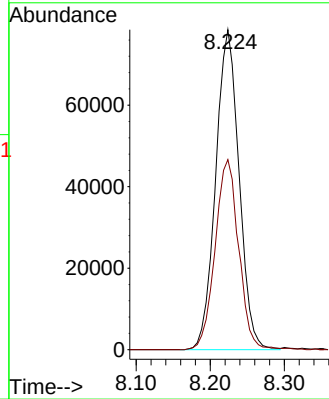
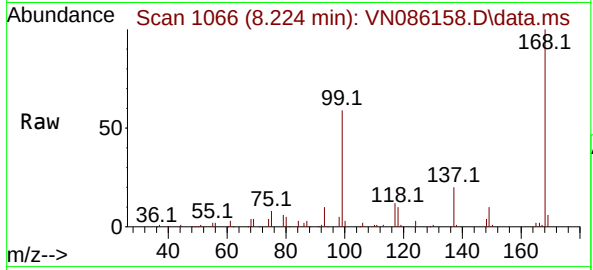




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN086158.D
Acq: 28 Mar 2025 18:18

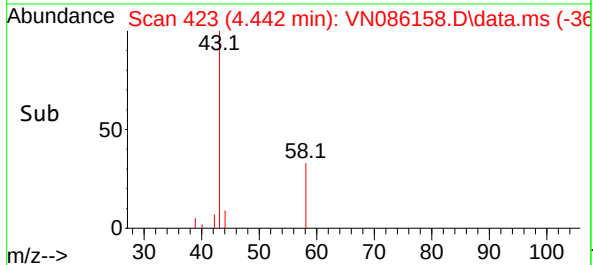
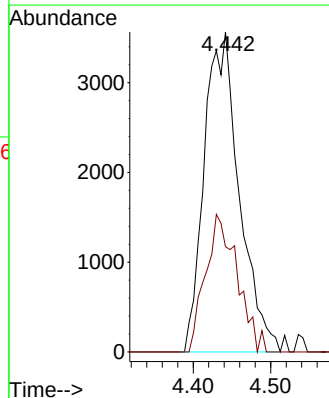
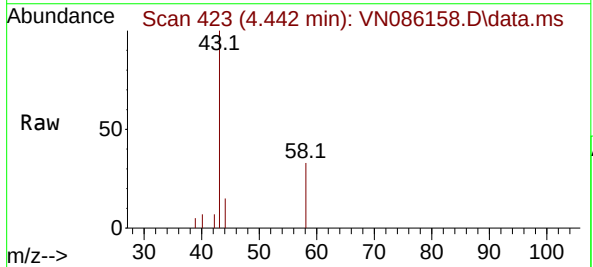
Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-006-01

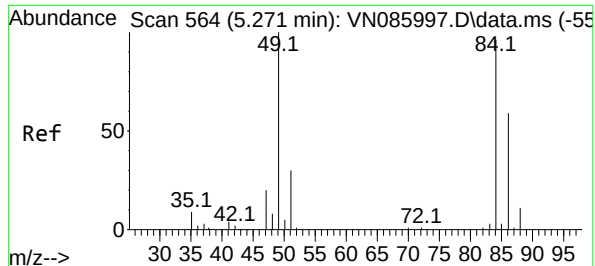
Tgt Ion:168 Resp: 171958
Ion Ratio Lower Upper
168 100
99 59.4 49.4 74.2



#16
Acetone
Concen: 15.518 ug/l
RT: 4.442 min Scan# 423
Delta R.T. 0.018 min
Lab File: VN086158.D
Acq: 28 Mar 2025 18:18

Tgt Ion: 43 Resp: 11163
Ion Ratio Lower Upper
43 100
58 32.9 29.4 44.2





#20

Methylene Chloride

Concen: 3.464 ug/l

RT: 5.277 min Scan# 5

Delta R.T. 0.006 min

Lab File: VN086158.D

Acq: 28 Mar 2025 18:18

Instrument :

MSVOA_N

ClientSampleId :

P001-BBDGA-006-01

Tgt Ion: 84 Resp: 7291

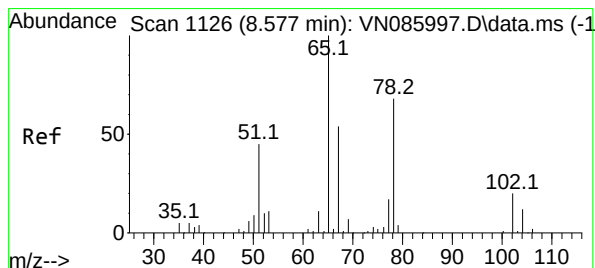
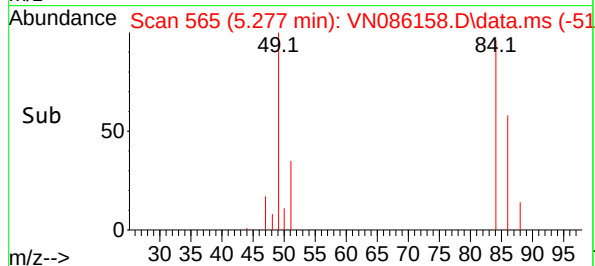
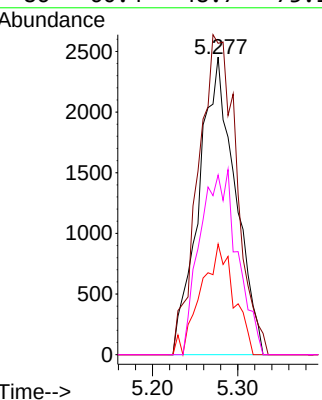
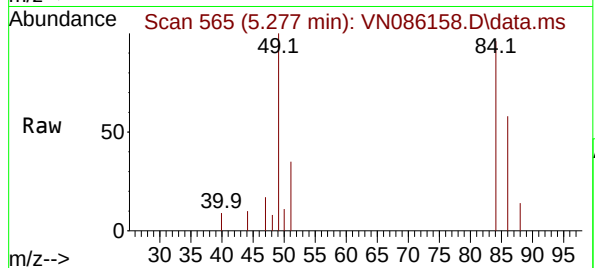
Ion Ratio Lower Upper

84 100

49 104.6 83.3 124.9

51 37.1 24.8 37.2

86 60.4 48.7 73.1



#33

1,2-Dichloroethane-d4

Concen: 59.027 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN086158.D

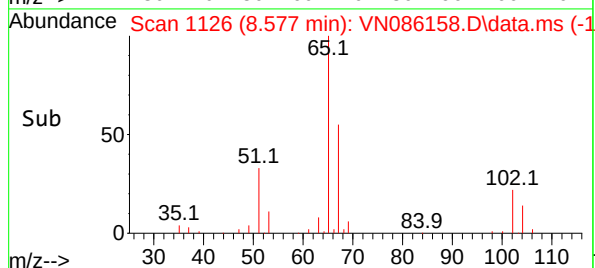
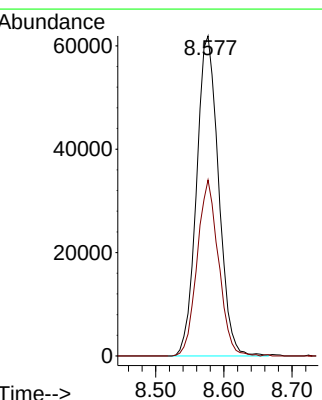
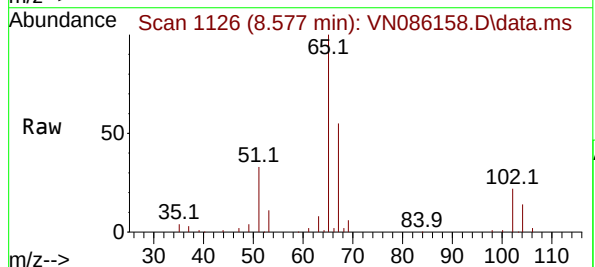
Acq: 28 Mar 2025 18:18

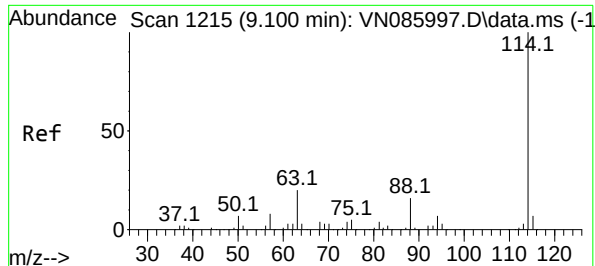
Tgt Ion: 65 Resp: 138990

Ion Ratio Lower Upper

65 100

67 53.5 0.0 102.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN086158.D

Acq: 28 Mar 2025 18:18

Instrument :

MSVOA_N

ClientSampleId :

P001-BBDGA-006-01

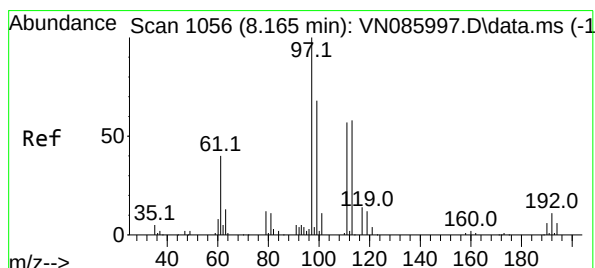
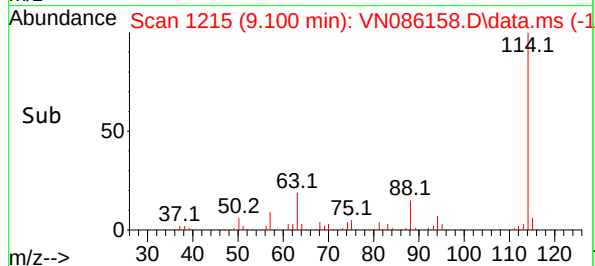
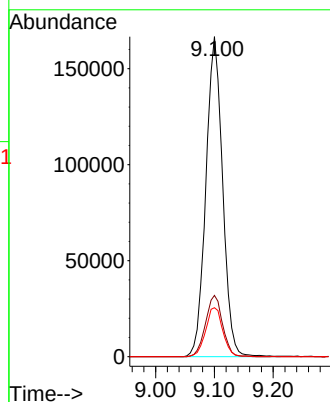
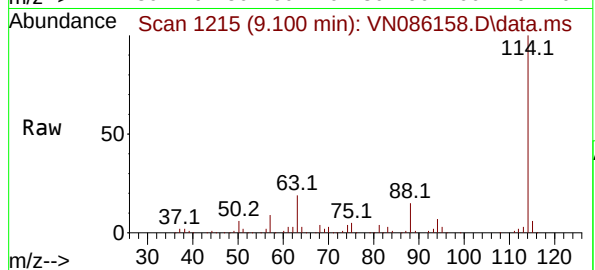
Tgt Ion:114 Resp: 329552

Ion Ratio Lower Upper

114 100

63 19.1 0.0 39.6

88 15.3 0.0 32.6



#35

Dibromofluoromethane

Concen: 52.878 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086158.D

Acq: 28 Mar 2025 18:18

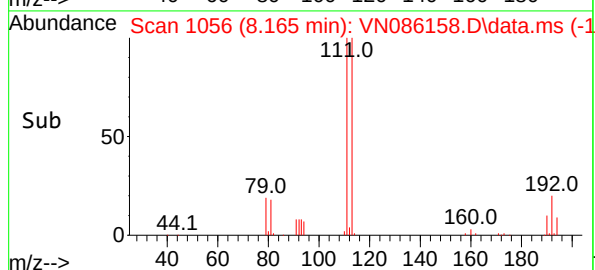
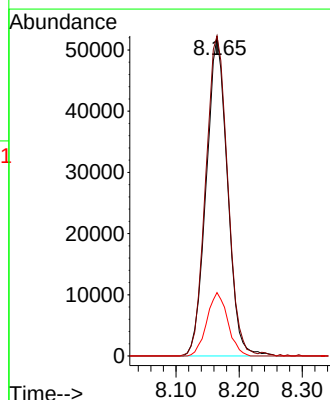
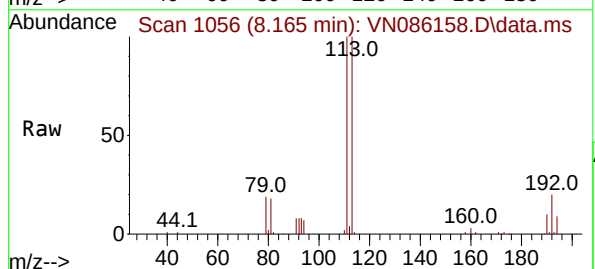
Tgt Ion:113 Resp: 121631

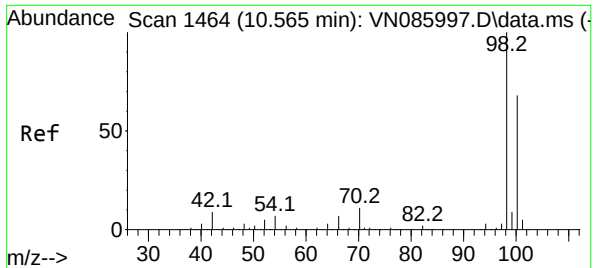
Ion Ratio Lower Upper

113 100

111 103.5 81.8 122.8

192 19.6 15.9 23.9

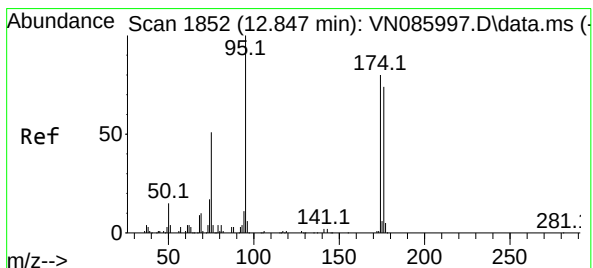
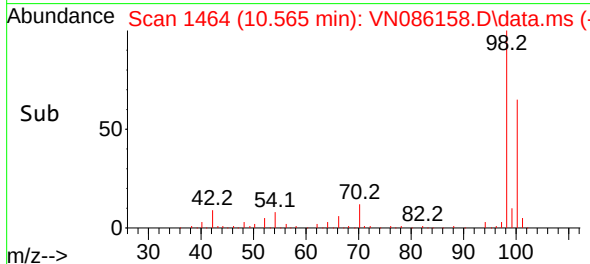
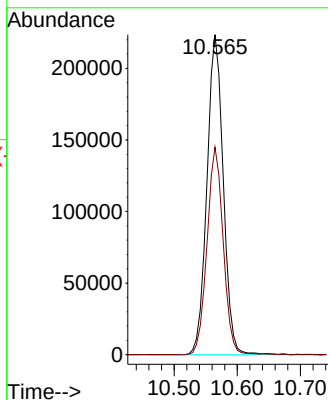
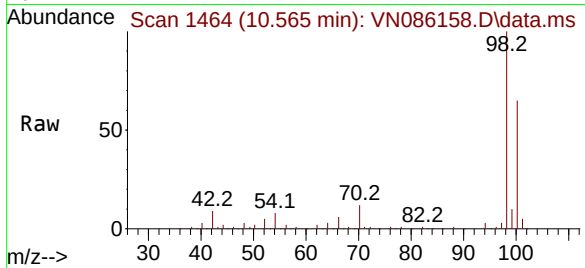




#50
Toluene-d8
Concen: 48.104 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086158.D
Acq: 28 Mar 2025 18:18

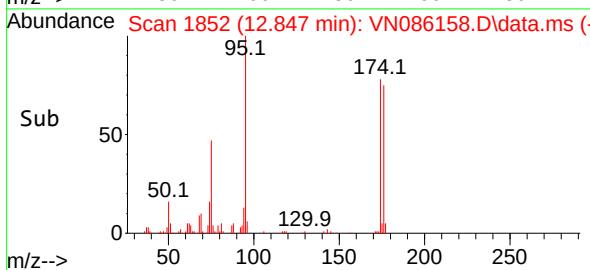
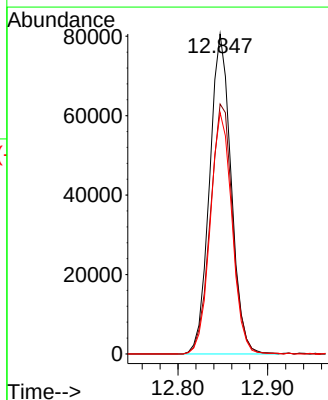
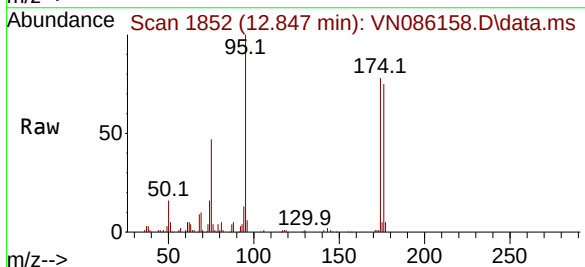
Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-006-01

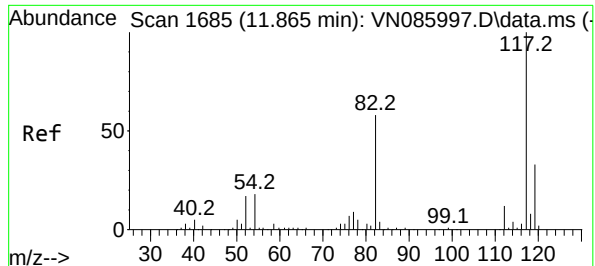
Tgt Ion: 98 Resp: 401580
Ion Ratio Lower Upper
98 100
100 64.3 53.1 79.7



#62
4-Bromofluorobenzene
Concen: 45.055 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086158.D
Acq: 28 Mar 2025 18:18

Tgt Ion: 95 Resp: 134138
Ion Ratio Lower Upper
95 100
174 81.2 0.0 156.8
176 76.1 0.0 152.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086158.D

Acq: 28 Mar 2025 18:18

Instrument :

MSVOA_N

ClientSampleId :

P001-BBDGA-006-01

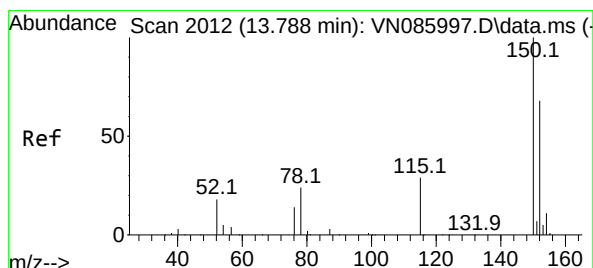
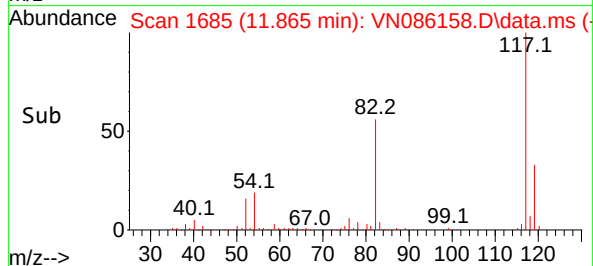
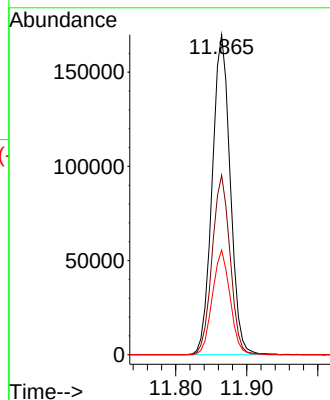
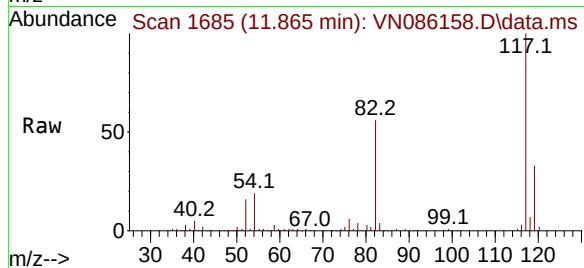
Tgt Ion:117 Resp: 299256

Ion Ratio Lower Upper

117 100

82 56.1 46.7 70.1

119 32.7 26.5 39.7



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. -0.000 min

Lab File: VN086158.D

Acq: 28 Mar 2025 18:18

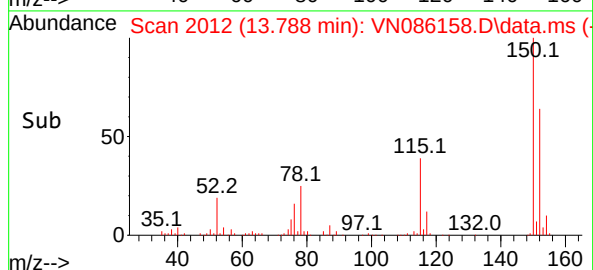
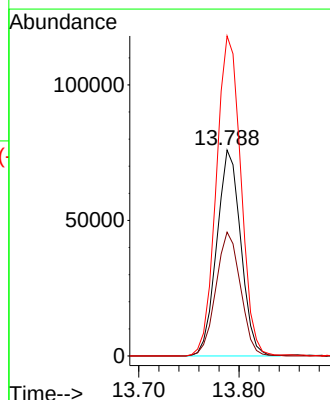
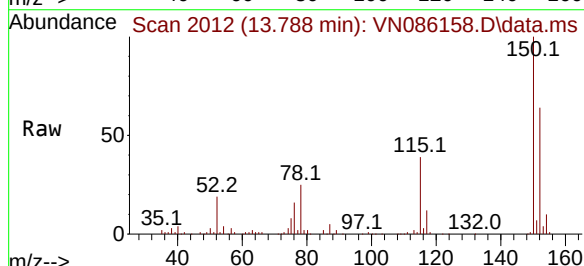
Tgt Ion:152 Resp: 126533

Ion Ratio Lower Upper

152 100

115 61.4 31.1 93.2

150 158.9 0.0 359.6



Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-007-01	SDG No.:	Q1664
Lab Sample ID:	Q1664-20	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	SPLP VOA
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086159.D	1		03/28/25 18:42	VN032825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.22	U	0.22	5.00	ug/L
74-87-3	Chloromethane	0.32	U	0.32	5.00	ug/L
75-01-4	Vinyl Chloride	0.26	U	0.26	5.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.47	U	0.47	5.00	ug/L
75-69-4	Trichlorofluoromethane	0.33	U	0.33	5.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	5.00	ug/L
67-64-1	Acetone	15.7	J	1.50	25.0	ug/L
75-15-0	Carbon Disulfide	0.21	U	0.21	5.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	5.00	ug/L
79-20-9	Methyl Acetate	0.27	U	0.27	5.00	ug/L
75-09-2	Methylene Chloride	3.80	J	0.28	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.23	U	0.23	5.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	5.00	ug/L
110-82-7	Cyclohexane	1.50	U	1.50	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	5.00	ug/L
74-97-5	Bromochloromethane	0.22	U	0.22	5.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	5.00	ug/L
108-87-2	Methylcyclohexane	0.16	U	0.16	5.00	ug/L
71-43-2	Benzene	0.15	U	0.15	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	5.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	5.00	ug/L
78-87-5	1,2-Dichloropropane	0.20	U	0.20	5.00	ug/L
75-27-4	Bromodichloromethane	0.22	U	0.22	5.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.68	U	0.68	25.0	ug/L
108-88-3	Toluene	0.14	U	0.14	5.00	ug/L

Report of Analysis

Client:	Weston Solutions, Inc.			Date Collected:	03/26/25	
Project:	RFP 905			Date Received:	03/27/25	
Client Sample ID:	P001-BBDGA-007-01			SDG No.:	Q1664	
Lab Sample ID:	Q1664-20			Matrix:	Water	
Analytical Method:	SW8260			% Solid:	0	
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	SPLP VOA	
GC Column:	RXI-624	ID :	0.25	Level :	LOW	
Prep Method :						

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086159.D	1		03/28/25 18:42	VN032825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.17	U	0.17	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.16	U	0.16	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	5.00	ug/L
591-78-6	2-Hexanone	0.89	U	0.89	25.0	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	5.00	ug/L
106-93-4	1,2-Dibromoethane	0.15	U	0.15	5.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	5.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	5.00	ug/L
100-41-4	Ethyl Benzene	0.13	U	0.13	5.00	ug/L
179601-23-1	m/p-Xylenes	0.24	U	0.24	10.0	ug/L
95-47-6	o-Xylene	0.12	U	0.12	5.00	ug/L
100-42-5	Styrene	0.15	U	0.15	5.00	ug/L
75-25-2	Bromoform	0.19	U	0.19	5.00	ug/L
98-82-8	Isopropylbenzene	0.12	U	0.12	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.26	U	0.26	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.16	U	0.16	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.19	U	0.19	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.16	U	0.16	5.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	0.53	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.20	U	0.20	5.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.20	U	0.20	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	59.2		74 - 125	118%	SPK: 50
1868-53-7	Dibromofluoromethane	54.1		75 - 124	108%	SPK: 50
2037-26-5	Toluene-d8	49.2		86 - 113	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.0		77 - 121	94%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	168000	8.224			
540-36-3	1,4-Difluorobenzene	321000	9.1			
3114-55-4	Chlorobenzene-d5	300000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	131000	13.788			

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	03/26/25	
Project:	RFP 905		Date Received:	03/27/25	
Client Sample ID:	P001-BBDGA-007-01		SDG No.:	Q1664	
Lab Sample ID:	Q1664-20		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	SPLP VOA	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086159.D	1		03/28/25 18:42	VN032825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032825\
Data File : VN086159.D
Acq On : 28 Mar 2025 18:42
Operator : JC\MD
Sample : Q1664-20
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-007-01

Quant Time: Mar 28 23:39:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 19 03:20:56 2025
Response via : Initial Calibration

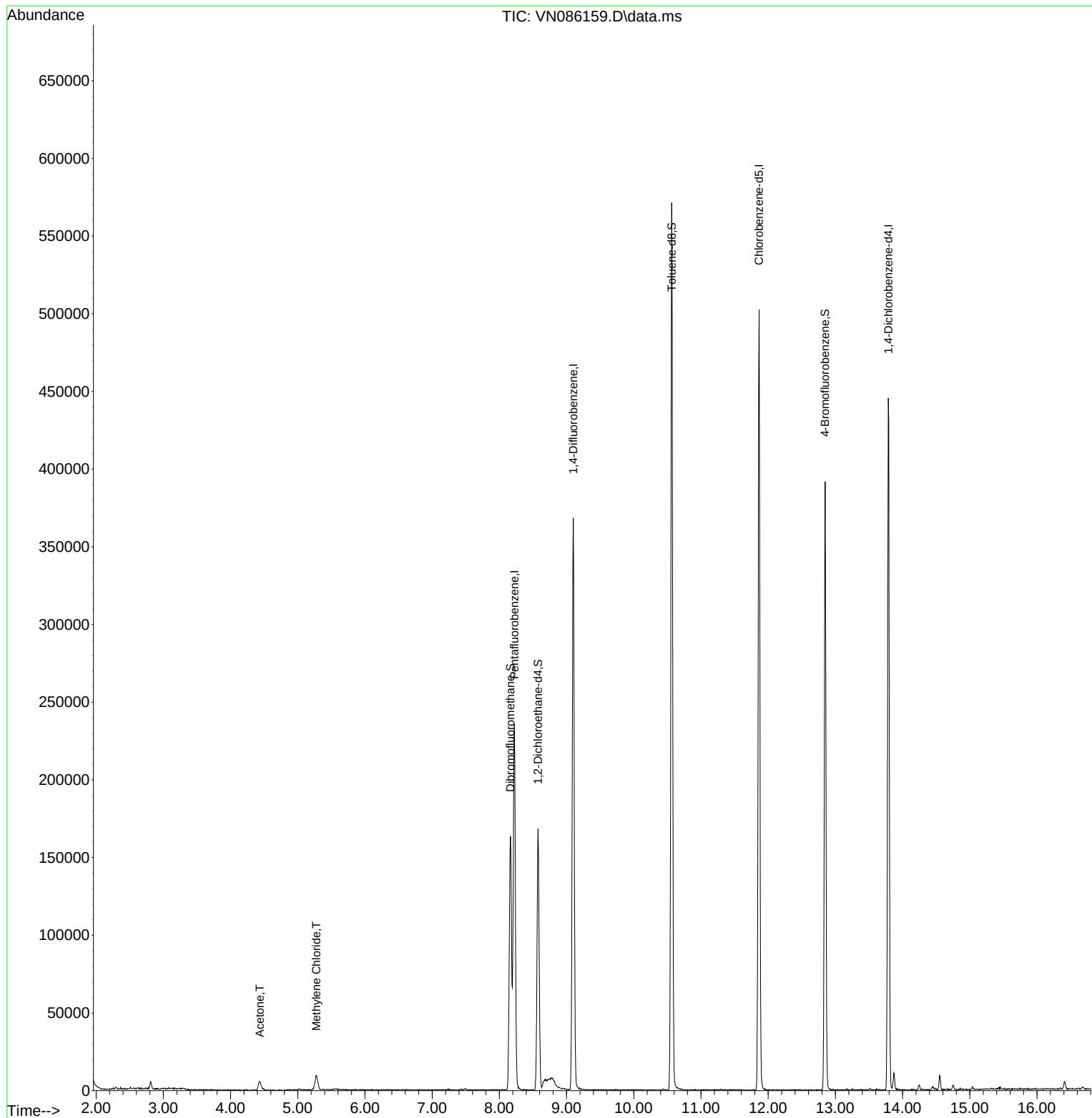
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	167744	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	321208	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	300008	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	130900	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	135916	59.171	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	= 118.340%		
35) Dibromofluoromethane	8.165	113	121238	54.076	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 108.160%		
50) Toluene-d8	10.565	98	400286	49.194	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	= 98.380%		
62) 4-Bromofluorobenzene	12.847	95	136311	46.974	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	= 93.940%		
Target Compounds						Qvalue
16) Acetone	4.436	43	10983	15.651	ug/l	94
20) Methylene Chloride	5.277	84	7787	3.793	ug/l	98

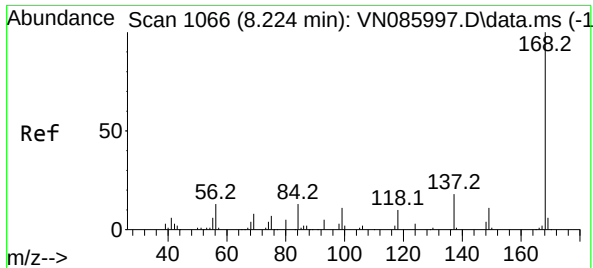
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032825\
Data File : VN086159.D
Acq On : 28 Mar 2025 18:42
Operator : JC\MD
Sample : Q1664-20
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-007-01

Quant Time: Mar 28 23:39:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 19 03:20:56 2025
Response via : Initial Calibration

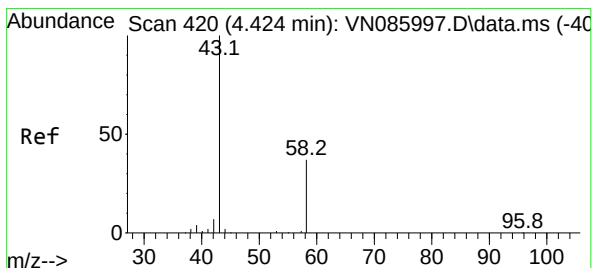
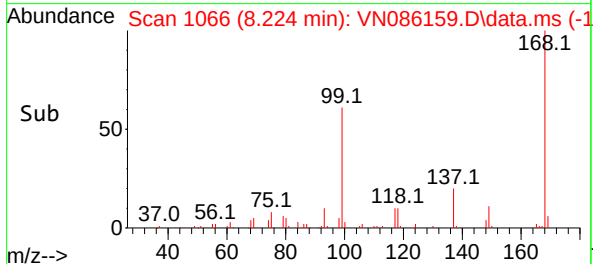
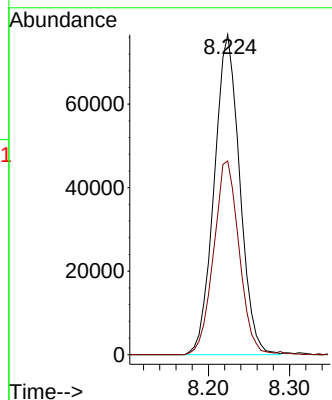
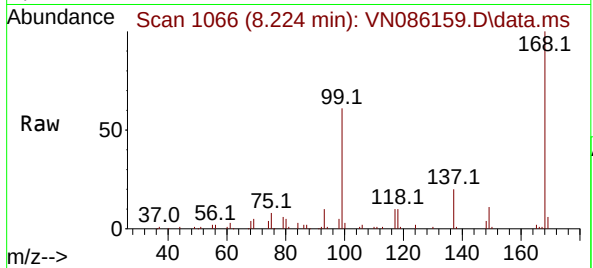




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN086159.D
Acq: 28 Mar 2025 18:42

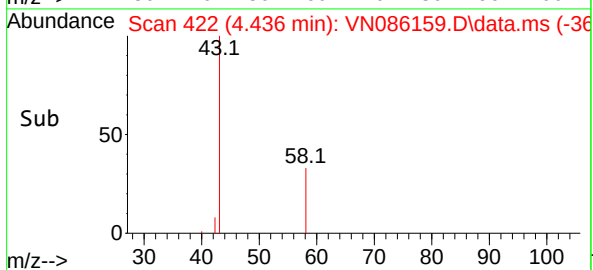
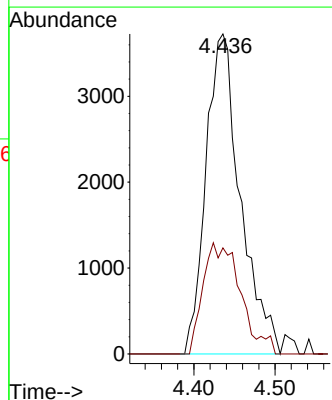
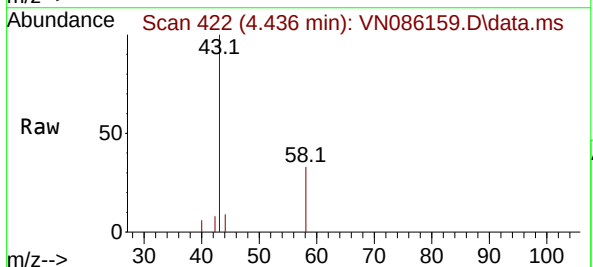
Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-007-01

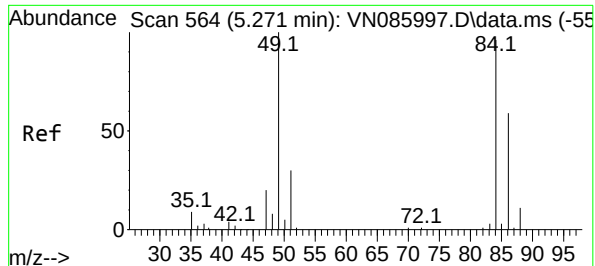
Tgt Ion:168 Resp: 167744
Ion Ratio Lower Upper
168 100
99 60.6 49.4 74.2



#16
Acetone
Concen: 15.651 ug/l
RT: 4.436 min Scan# 422
Delta R.T. 0.012 min
Lab File: VN086159.D
Acq: 28 Mar 2025 18:42

Tgt Ion: 43 Resp: 10983
Ion Ratio Lower Upper
43 100
58 33.2 29.4 44.2





#20

Methylene Chloride

Concen: 3.793 ug/l

RT: 5.277 min Scan# 5

Delta R.T. 0.006 min

Lab File: VN086159.D

Acq: 28 Mar 2025 18:42

Instrument :

MSVOA_N

ClientSampleId :

P001-BBDGA-007-01

Tgt Ion: 84 Resp: 7787

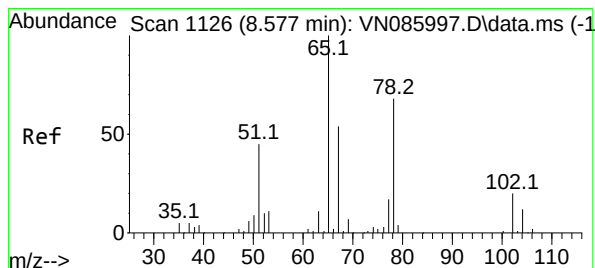
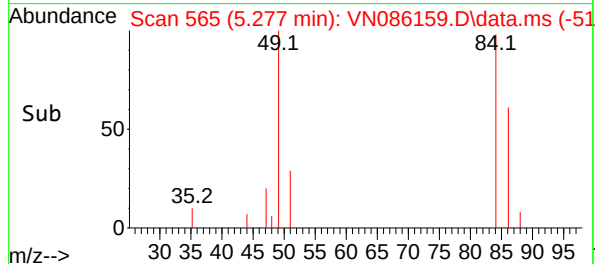
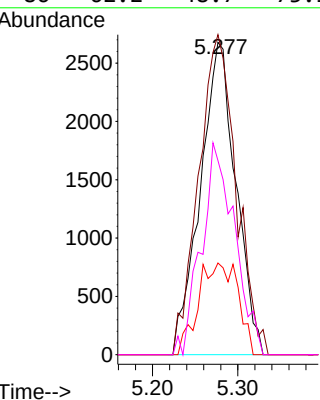
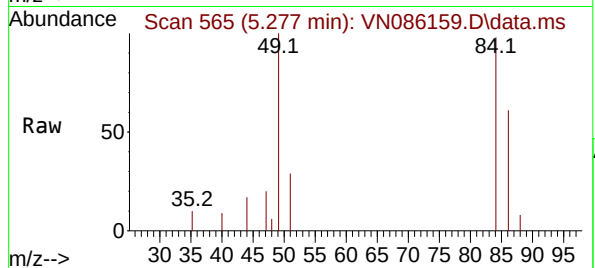
Ion Ratio Lower Upper

84 100

49 102.5 83.3 124.9

51 29.4 24.8 37.2

86 62.2 48.7 73.1



#33

1,2-Dichloroethane-d4

Concen: 59.171 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN086159.D

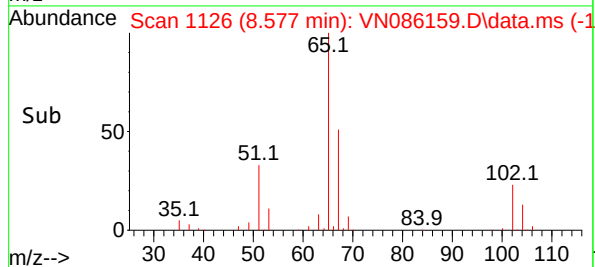
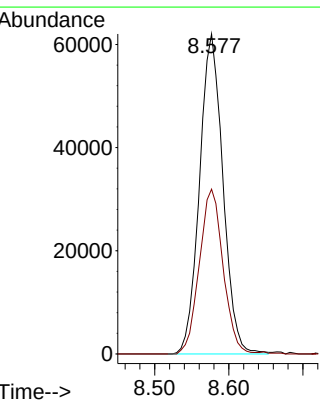
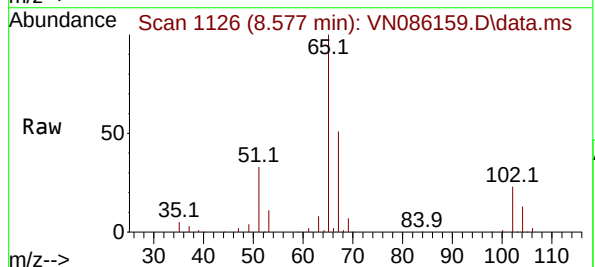
Acq: 28 Mar 2025 18:42

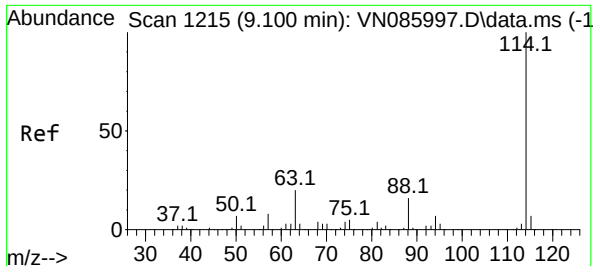
Tgt Ion: 65 Resp: 135916

Ion Ratio Lower Upper

65 100

67 52.2 0.0 102.2

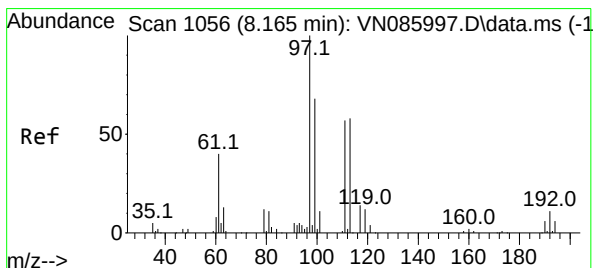
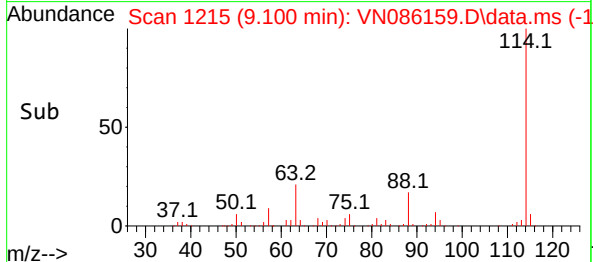
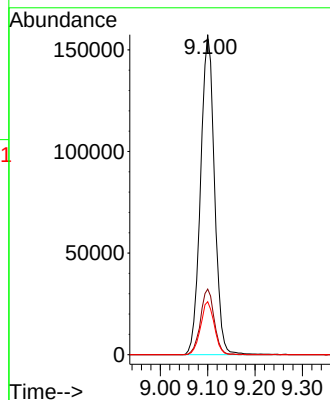
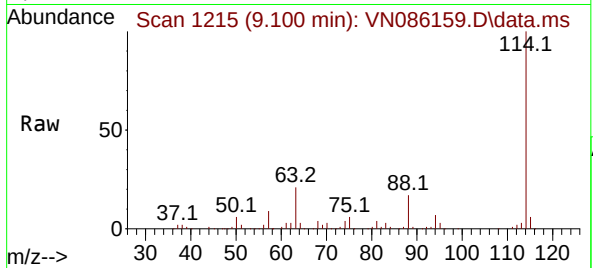




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086159.D
Acq: 28 Mar 2025 18:42

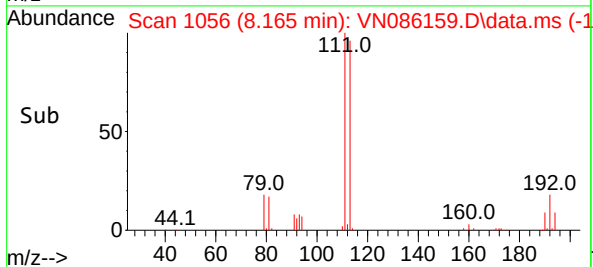
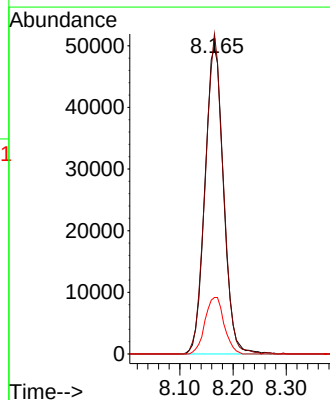
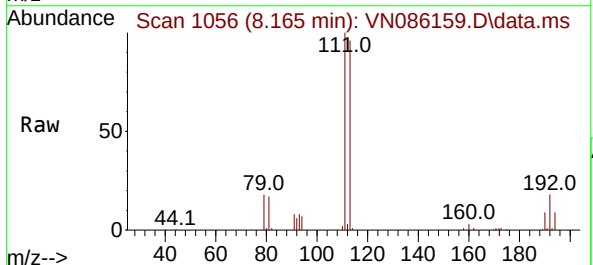
Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-007-01

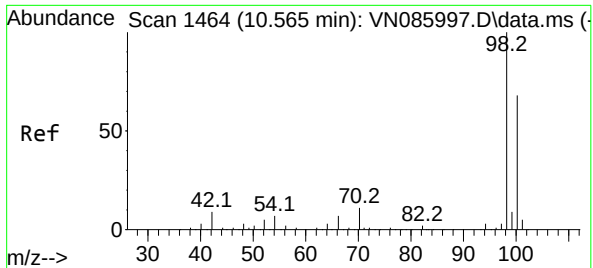
Tgt Ion	Ratio	Lower	Upper
114	100		
63	20.5	0.0	39.6
88	16.6	0.0	32.6



#35
Dibromofluoromethane
Concen: 54.076 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN086159.D
Acq: 28 Mar 2025 18:42

Tgt Ion	Ratio	Lower	Upper
113	100		
111	100.2	81.8	122.8
192	18.8	15.9	23.9

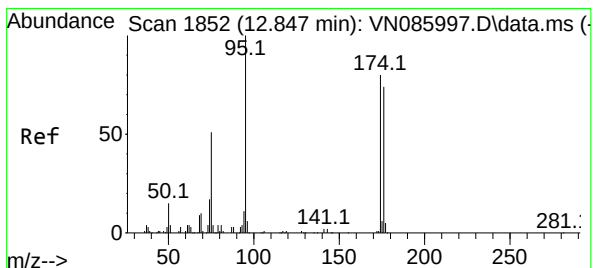
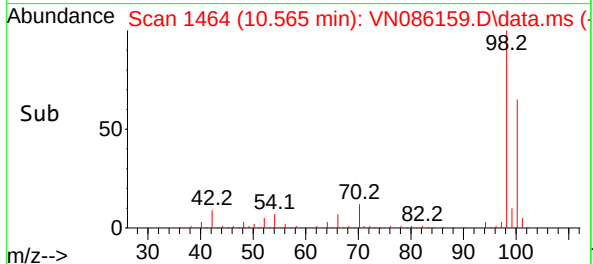
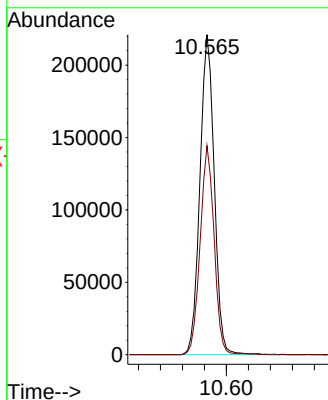
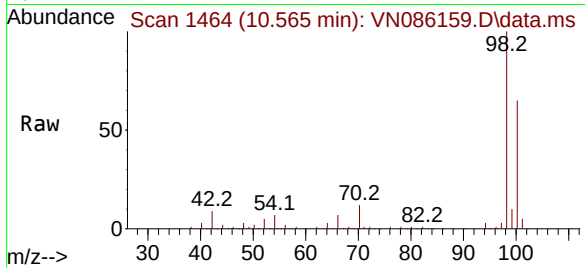




#50
Toluene-d8
Concen: 49.194 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086159.D
Acq: 28 Mar 2025 18:42

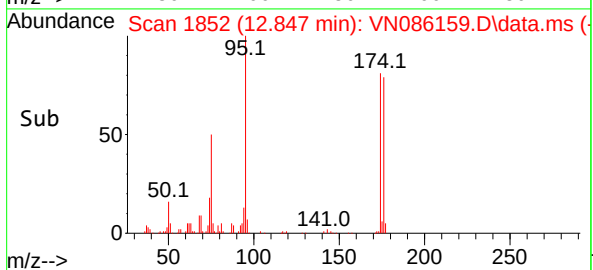
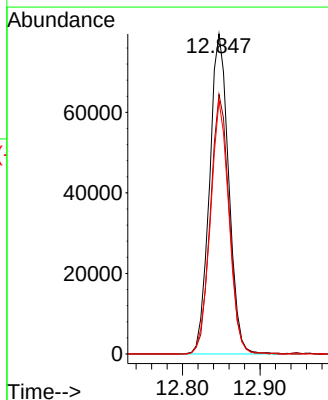
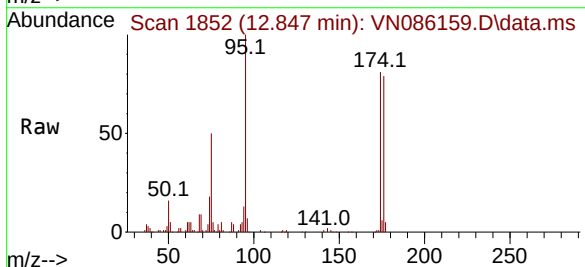
Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-007-01

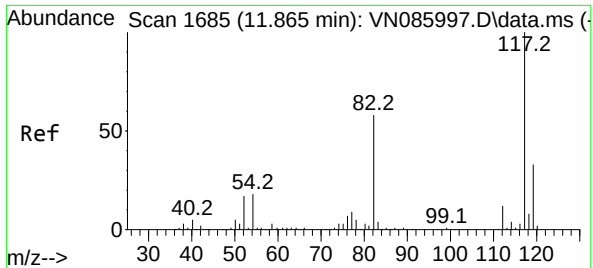
Tgt Ion: 98 Resp: 400286
Ion Ratio Lower Upper
98 100
100 63.7 53.1 79.7



#62
4-Bromofluorobenzene
Concen: 46.974 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086159.D
Acq: 28 Mar 2025 18:42

Tgt Ion: 95 Resp: 136311
Ion Ratio Lower Upper
95 100
174 80.0 0.0 156.8
176 76.6 0.0 152.2

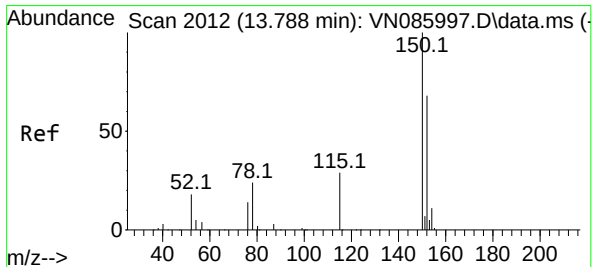
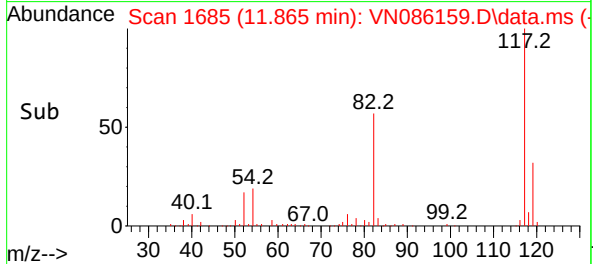
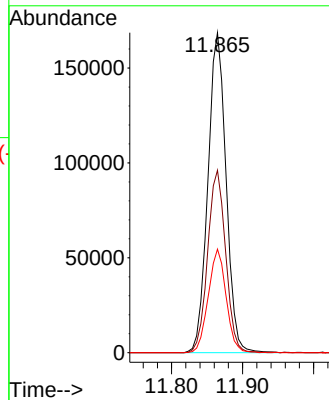
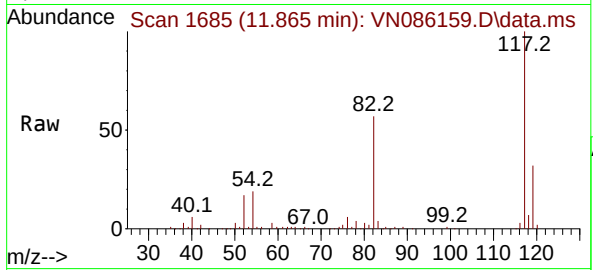




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086159.D
Acq: 28 Mar 2025 18:42

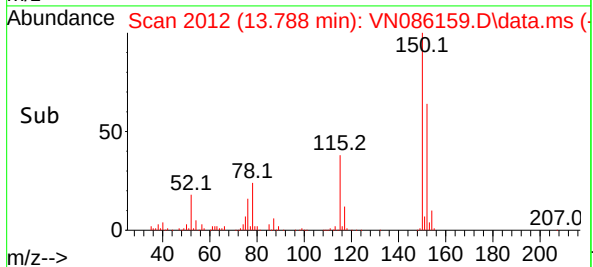
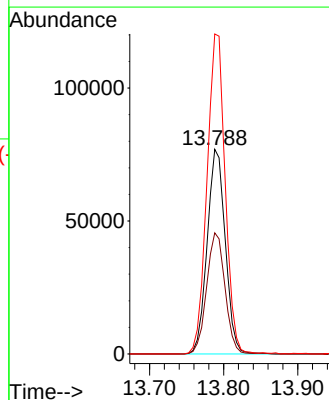
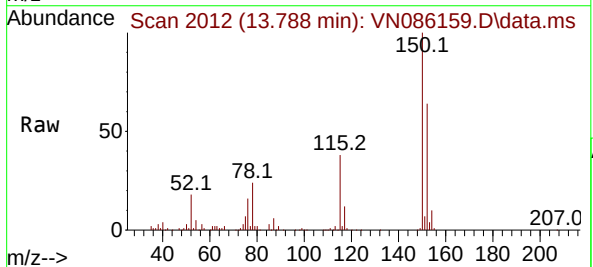
Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-007-01

Tgt Ion:117 Resp: 300008
Ion Ratio Lower Upper
117 100
82 57.0 46.7 70.1
119 32.3 26.5 39.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN086159.D
Acq: 28 Mar 2025 18:42

Tgt Ion:152 Resp: 130900
Ion Ratio Lower Upper
152 100
115 59.7 31.1 93.2
150 156.8 0.0 359.6



Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	03/26/25	
Project:	RFP 905		Date Received:	03/27/25	
Client Sample ID:	P001-BBDGA-008-01		SDG No.:	Q1664	
Lab Sample ID:	Q1664-22		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	SPLP VOA	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086160.D	1		03/28/25 19:06	VN032825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.22	U	0.22	5.00	ug/L
74-87-3	Chloromethane	0.32	U	0.32	5.00	ug/L
75-01-4	Vinyl Chloride	0.26	U	0.26	5.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.47	U	0.47	5.00	ug/L
75-69-4	Trichlorofluoromethane	0.33	U	0.33	5.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	5.00	ug/L
67-64-1	Acetone	21.0	J	1.50	25.0	ug/L
75-15-0	Carbon Disulfide	0.21	U	0.21	5.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	5.00	ug/L
79-20-9	Methyl Acetate	0.27	U	0.27	5.00	ug/L
75-09-2	Methylene Chloride	3.90	J	0.28	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.23	U	0.23	5.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	5.00	ug/L
110-82-7	Cyclohexane	1.50	U	1.50	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	5.00	ug/L
74-97-5	Bromochloromethane	0.22	U	0.22	5.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	5.00	ug/L
108-87-2	Methylcyclohexane	0.16	U	0.16	5.00	ug/L
71-43-2	Benzene	0.15	U	0.15	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	5.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	5.00	ug/L
78-87-5	1,2-Dichloropropane	0.20	U	0.20	5.00	ug/L
75-27-4	Bromodichloromethane	0.22	U	0.22	5.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.68	U	0.68	25.0	ug/L
108-88-3	Toluene	0.14	U	0.14	5.00	ug/L

Report of Analysis

Client:	Weston Solutions, Inc.			Date Collected:	03/26/25	
Project:	RFP 905			Date Received:	03/27/25	
Client Sample ID:	P001-BBDGA-008-01			SDG No.:	Q1664	
Lab Sample ID:	Q1664-22			Matrix:	Water	
Analytical Method:	SW8260			% Solid:	0	
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	SPLP VOA	
GC Column:	RXI-624	ID :	0.25	Level :	LOW	
Prep Method :						

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086160.D	1		03/28/25 19:06	VN032825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.17	U	0.17	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.16	U	0.16	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	5.00	ug/L
591-78-6	2-Hexanone	0.89	U	0.89	25.0	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	5.00	ug/L
106-93-4	1,2-Dibromoethane	0.15	U	0.15	5.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	5.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	5.00	ug/L
100-41-4	Ethyl Benzene	0.13	U	0.13	5.00	ug/L
179601-23-1	m/p-Xylenes	0.24	U	0.24	10.0	ug/L
95-47-6	o-Xylene	0.12	U	0.12	5.00	ug/L
100-42-5	Styrene	0.15	U	0.15	5.00	ug/L
75-25-2	Bromoform	0.19	U	0.19	5.00	ug/L
98-82-8	Isopropylbenzene	0.12	U	0.12	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.26	U	0.26	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.16	U	0.16	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.19	U	0.19	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.16	U	0.16	5.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	0.53	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.20	U	0.20	5.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.20	U	0.20	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	58.7		74 - 125	117%	SPK: 50
1868-53-7	Dibromofluoromethane	54.5		75 - 124	109%	SPK: 50
2037-26-5	Toluene-d8	49.5		86 - 113	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.8		77 - 121	92%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	176000	8.224			
540-36-3	1,4-Difluorobenzene	331000	9.1			
3114-55-4	Chlorobenzene-d5	306000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	131000	13.788			

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	03/26/25	
Project:	RFP 905		Date Received:	03/27/25	
Client Sample ID:	P001-BBDGA-008-01		SDG No.:	Q1664	
Lab Sample ID:	Q1664-22		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	SPLP VOA	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086160.D	1		03/28/25 19:06	VN032825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032825\
Data File : VN086160.D
Acq On : 28 Mar 2025 19:06
Operator : JC\MD
Sample : Q1664-22
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-008-01

Quant Time: Mar 28 23:40:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 19 03:20:56 2025
Response via : Initial Calibration

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

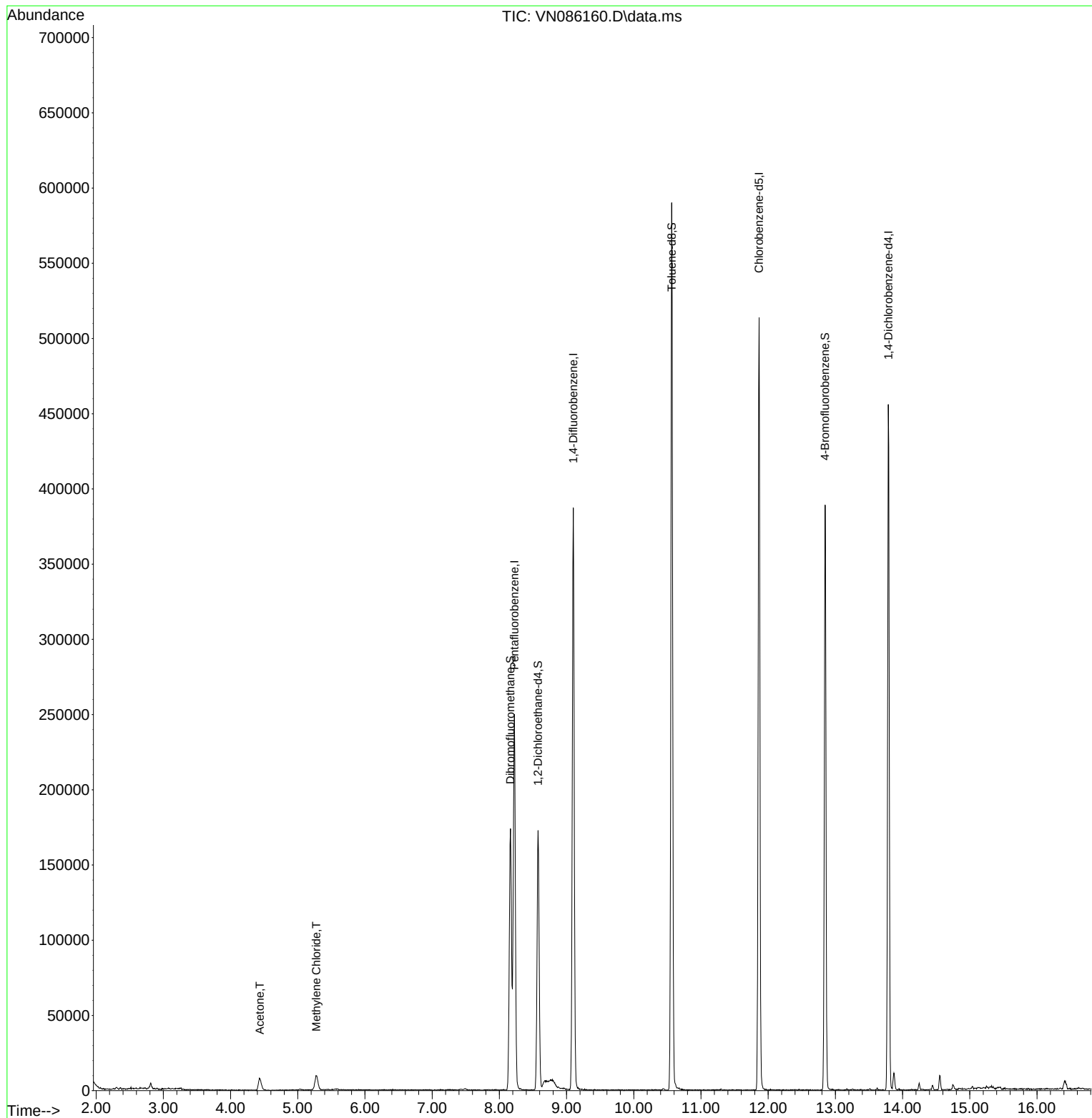
Internal Standards						
1) Pentafluorobenzene	8.224	168	175839	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	331090	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	306006	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	130901	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	141352	58.705	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	117.420%
35) Dibromofluoromethane	8.165	113	125927	54.491	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	108.980%
50) Toluene-d8	10.565	98	415225	49.507	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	99.020%
62) 4-Bromofluorobenzene	12.847	95	136927	45.778	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	91.560%
Target Compounds						
						Qvalue
16) Acetone	4.436	43	15463	21.020	ug/l	98
20) Methylene Chloride	5.277	84	8294	3.854	ug/l	89

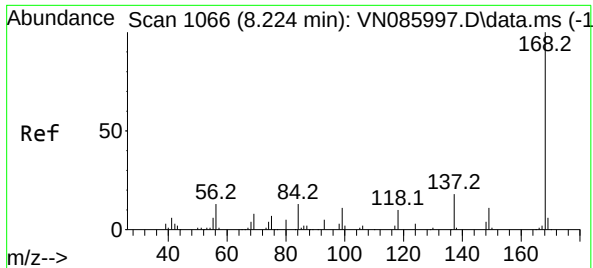
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032825\
Data File : VN086160.D
Acq On : 28 Mar 2025 19:06
Operator : JC\MD
Sample : Q1664-22
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-008-01

Quant Time: Mar 28 23:40:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 19 03:20:56 2025
Response via : Initial Calibration

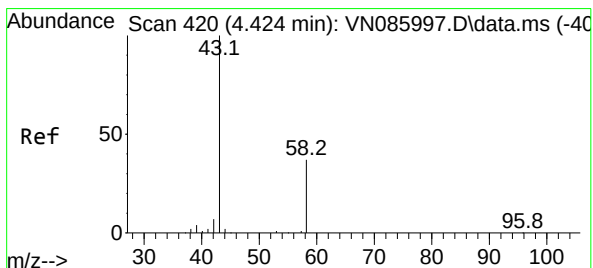
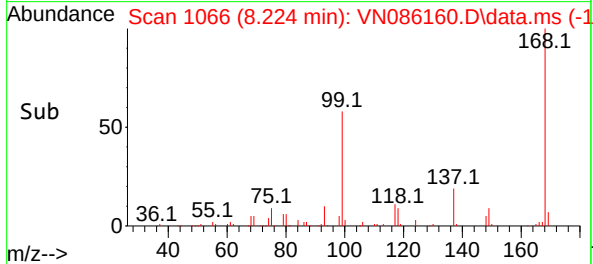
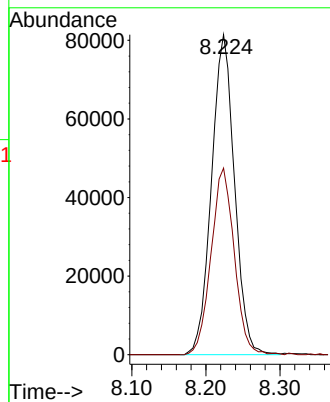
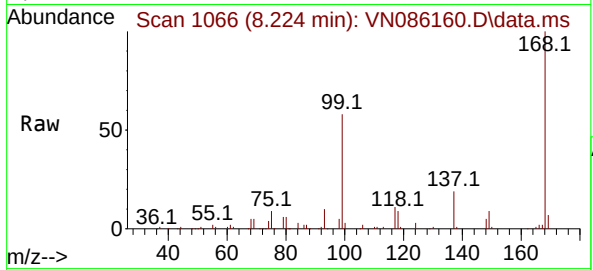




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN086160.D
Acq: 28 Mar 2025 19:06

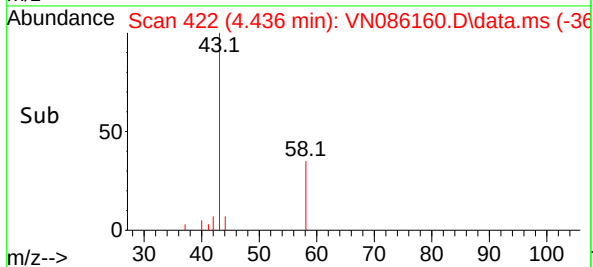
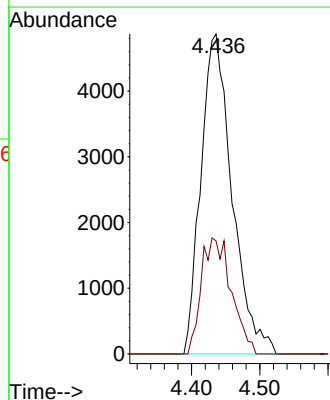
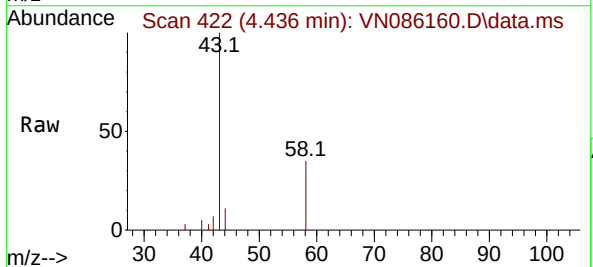
Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-008-01

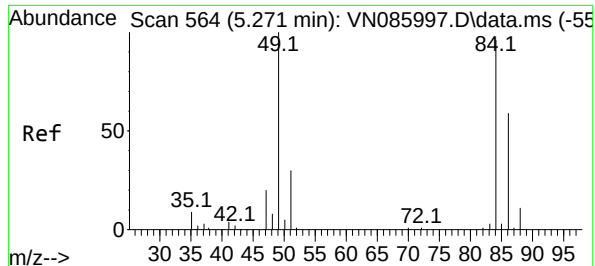
Tgt Ion:168 Resp: 175839
Ion Ratio Lower Upper
168 100
99 58.3 49.4 74.2



#16
Acetone
Concen: 21.020 ug/l
RT: 4.436 min Scan# 422
Delta R.T. 0.012 min
Lab File: VN086160.D
Acq: 28 Mar 2025 19:06

Tgt Ion: 43 Resp: 15463
Ion Ratio Lower Upper
43 100
58 35.4 29.4 44.2





#20

Methylene Chloride

Concen: 3.854 ug/l

RT: 5.277 min Scan# 5

Delta R.T. 0.006 min

Lab File: VN086160.D

Acq: 28 Mar 2025 19:06

Instrument :

MSVOA_N

ClientSampleId :

P001-BBDGA-008-01

Tgt Ion: 84 Resp: 8294

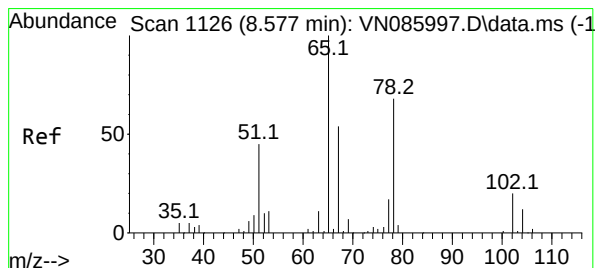
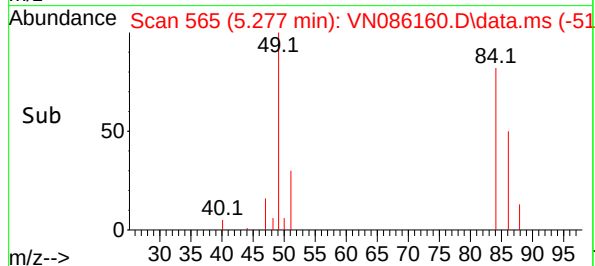
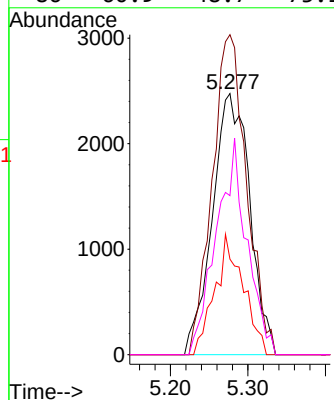
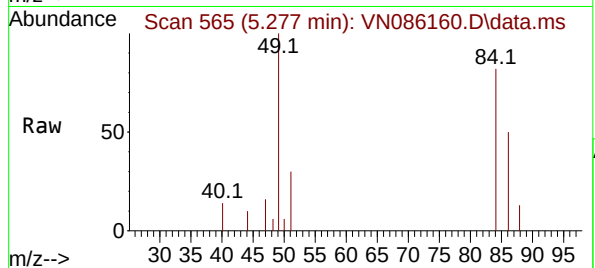
Ion Ratio Lower Upper

84 100

49 122.5 83.3 124.9

51 36.6 24.8 37.2

86 60.9 48.7 73.1



#33

1,2-Dichloroethane-d4

Concen: 58.705 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN086160.D

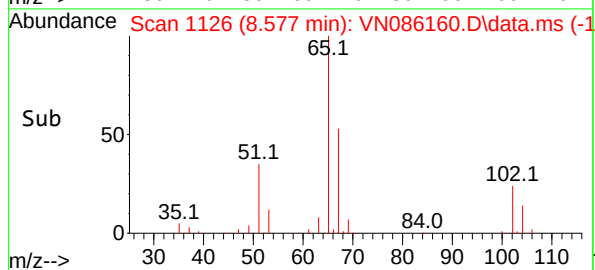
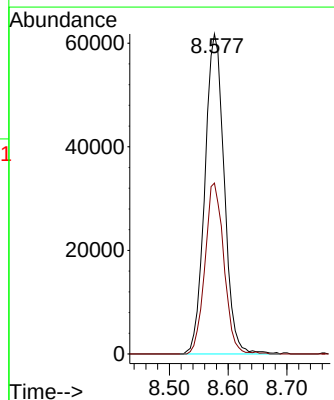
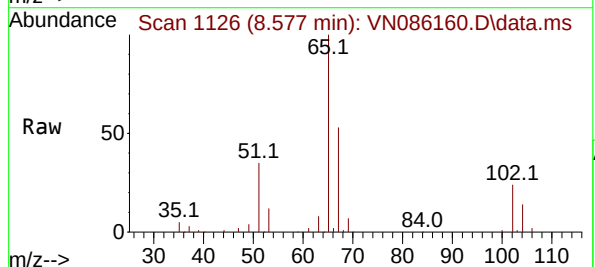
Acq: 28 Mar 2025 19:06

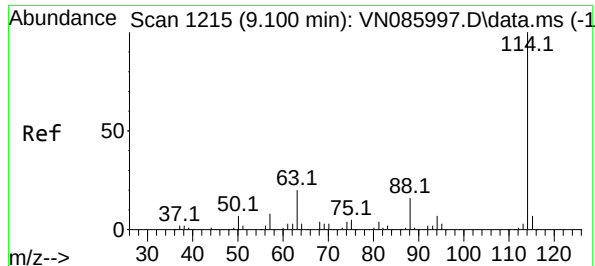
Tgt Ion: 65 Resp: 141352

Ion Ratio Lower Upper

65 100

67 52.3 0.0 102.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN086160.D

Acq: 28 Mar 2025 19:06

Instrument :

MSVOA_N

ClientSampleId :

P001-BBDGA-008-01

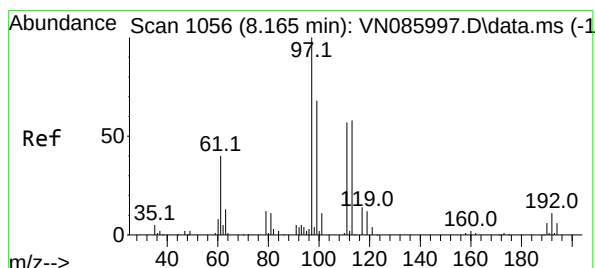
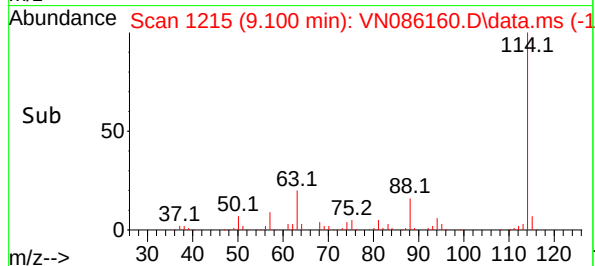
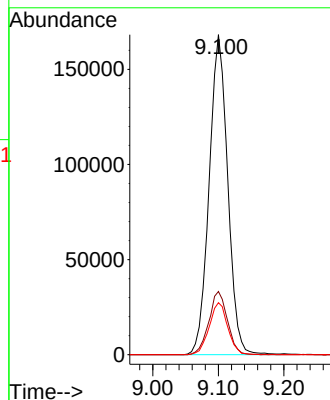
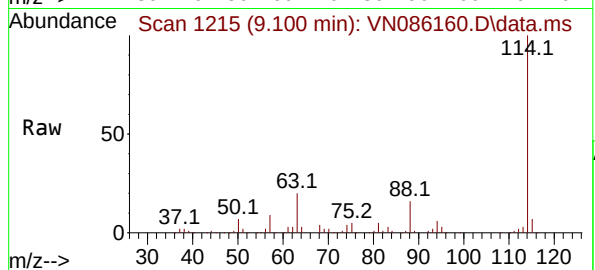
Tgt Ion:114 Resp: 331090

Ion Ratio Lower Upper

114 100

63 19.8 0.0 39.6

88 16.2 0.0 32.6



#35

Dibromofluoromethane

Concen: 54.491 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086160.D

Acq: 28 Mar 2025 19:06

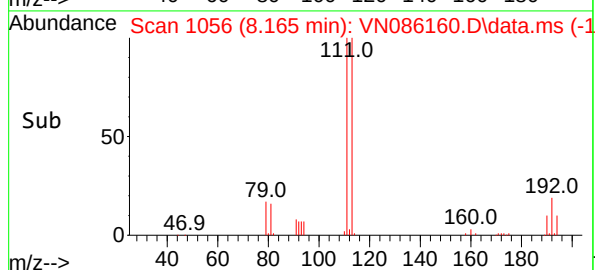
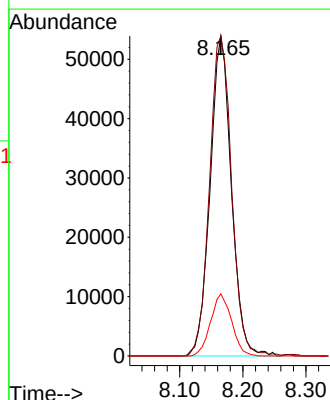
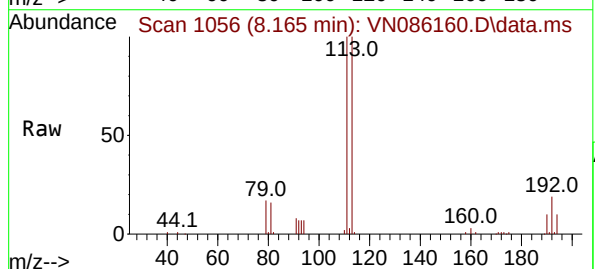
Tgt Ion:113 Resp: 125927

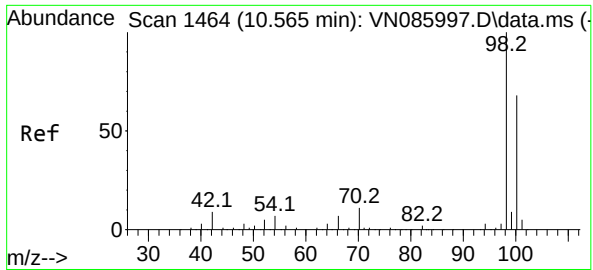
Ion Ratio Lower Upper

113 100

111 103.7 81.8 122.8

192 19.1 15.9 23.9

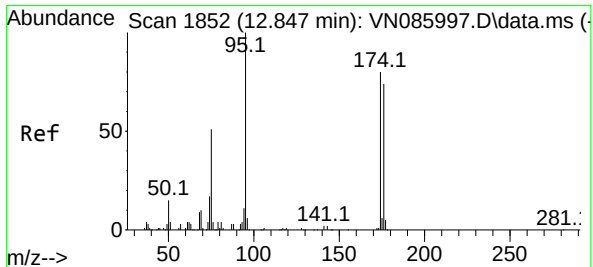
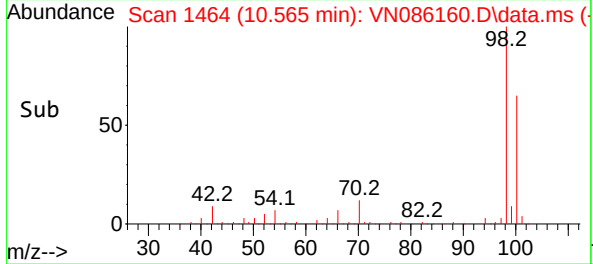
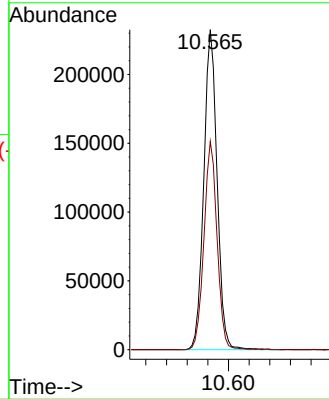
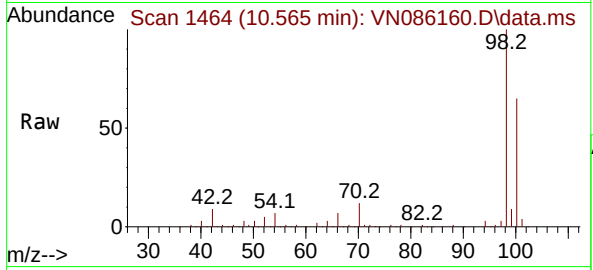




#50
Toluene-d8
Concen: 49.507 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086160.D
Acq: 28 Mar 2025 19:06

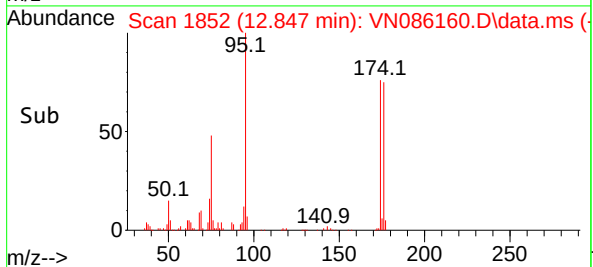
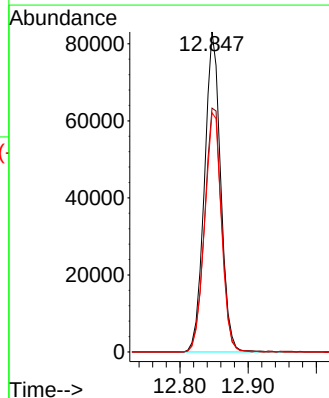
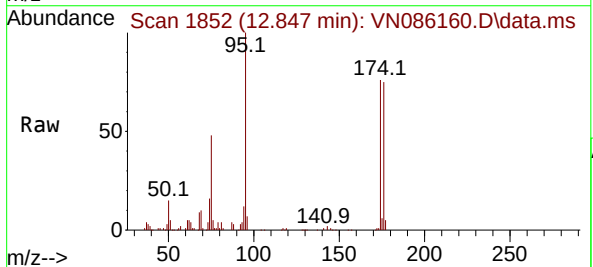
Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-008-01

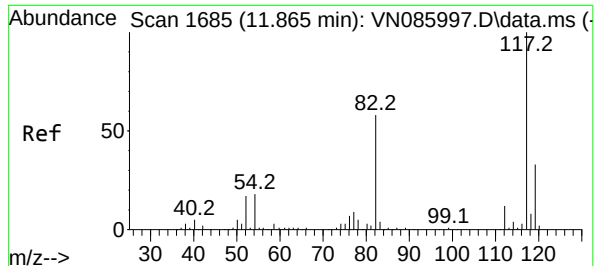
Tgt Ion: 98 Resp: 415225
Ion Ratio Lower Upper
98 100
100 64.3 53.1 79.7



#62
4-Bromofluorobenzene
Concen: 45.778 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086160.D
Acq: 28 Mar 2025 19:06

Tgt Ion: 95 Resp: 136927
Ion Ratio Lower Upper
95 100
174 80.1 0.0 156.8
176 77.3 0.0 152.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086160.D

Acq: 28 Mar 2025 19:06

Instrument :

MSVOA_N

ClientSampleId :

P001-BBDGA-008-01

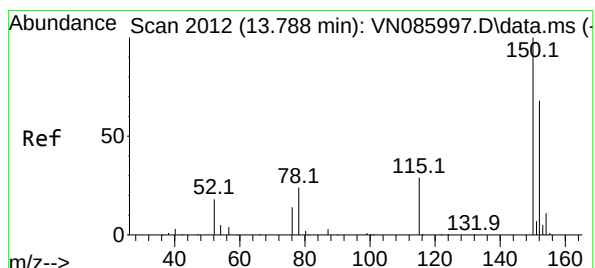
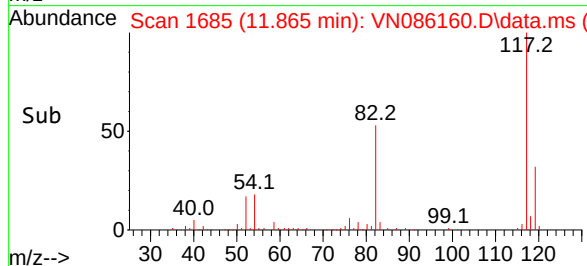
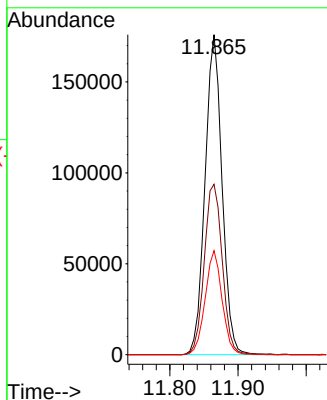
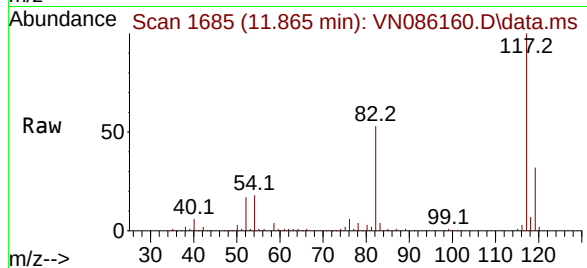
Tgt Ion:117 Resp: 306006

Ion Ratio Lower Upper

117 100

82 53.3 46.7 70.1

119 32.5 26.5 39.7



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. -0.000 min

Lab File: VN086160.D

Acq: 28 Mar 2025 19:06

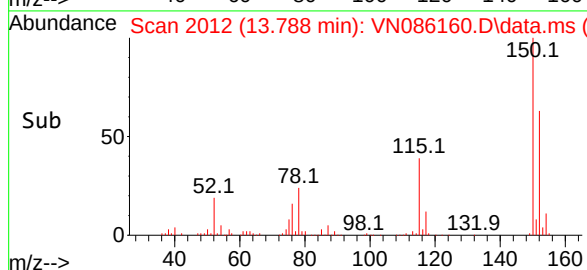
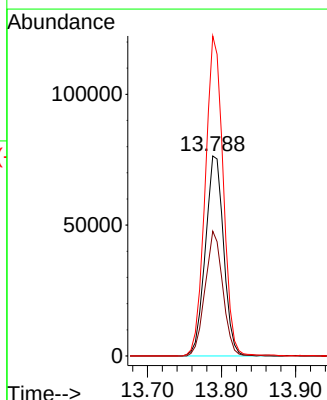
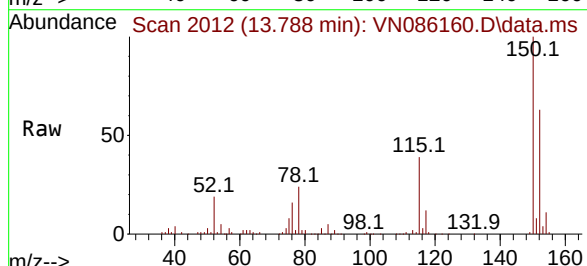
Tgt Ion:152 Resp: 130901

Ion Ratio Lower Upper

152 100

115 60.2 31.1 93.2

150 157.0 0.0 359.6





CALIBRATION SUMMARY

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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: ROYF02
 Lab Code: CHEM Case No.: Q1664 SAS No.: Q1664 SDG No.: Q1664
 Instrument ID: MSVOA_N Calibration Date(s): 03/18/2025 03/18/2025
 Heated Purge: (Y/N) N Calibration Time(s): 11:44 14:09
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:		RRF100 = VN085996.D		RRF050 = VN085997.D		RRF020 = VN085998.D			
		RRF010 = VN085999.D		RRF005 = VN086000.D		RRF001 = VN086001.D			
COMPOUND	RRF100	RRF050	RRF020	RRF010	RRF005	RRF001	RRF	% RSD	
Dichlorodifluoromethane	0.707	0.643	0.600	0.649	0.697	0.678	0.662	6	
Chloromethane	0.575	0.557	0.514	0.544	0.612	0.683	0.581	10.3	
Vinyl Chloride	0.622	0.592	0.541	0.581	0.634	0.592	0.594	5.5	
Bromomethane	0.388	0.381	0.377	0.411	0.466		0.404	9.2	
Chloroethane	0.355	0.330	0.334	0.378	0.403	0.446	0.375	11.9	
Trichlorofluoromethane	1.059	0.977	0.959	1.035	1.107	1.267	1.067	10.5	
1,1,2-Trichlorotrifluoroethane	0.574	0.515	0.512	0.553	0.590	0.659	0.567	9.7	
1,1-Dichloroethene	0.567	0.516	0.481	0.545	0.550	0.415	0.512	11	
Acetone	0.251	0.194	0.179	0.195	0.213	0.223	0.209	12.4	
Carbon Disulfide	1.649	1.510	1.467	1.610	1.765	2.107	1.685	13.8	
Methyl tert-butyl Ether	1.888	1.691	1.578	1.604	1.638	1.673	1.679	6.6	
Methyl Acetate	0.488	0.469	0.434	0.504	0.542	0.667	0.518	15.8	
Methylene Chloride	0.613	0.565	0.551	0.572	0.639	0.731	0.612	10.9	
trans-1,2-Dichloroethene	0.603	0.534	0.521	0.546	0.564	0.591	0.560	5.8	
1,1-Dichloroethane	1.023	0.949	0.908	0.968	1.032	1.130	1.001	7.8	
Cyclohexane	0.890	0.799	0.765	0.854	0.957		0.853	8.9	
2-Butanone	0.331	0.292	0.277	0.297	0.319	0.296	0.302	6.5	
Carbon Tetrachloride	0.673	0.578	0.557	0.580	0.613	0.624	0.604	6.9	
cis-1,2-Dichloroethene	0.688	0.633	0.591	0.617	0.656	0.632	0.636	5.3	
Bromochloromethane	0.403	0.391	0.398	0.404	0.430	0.521	0.424	11.6	
Chloroform	1.119	1.017	1.011	1.101	1.149	1.245	1.107	7.9	
1,1,1-Trichloroethane	1.093	0.986	0.962	1.025	1.097	1.124	1.048	6.3	
Methylcyclohexane	0.579	0.475	0.419	0.399	0.426	0.438	0.456	14.3	
Benzene	1.610	1.393	1.348	1.386	1.453	1.466	1.443	6.5	
1,2-Dichloroethane	0.538	0.475	0.462	0.491	0.528	0.521	0.503	6.1	
Trichloroethene	0.394	0.346	0.335	0.353	0.380	0.435	0.374	10	
1,2-Dichloropropane	0.366	0.321	0.319	0.321	0.333	0.309	0.328	6.2	
Bromodichloromethane	0.600	0.516	0.506	0.515	0.561	0.537	0.539	6.6	
4-Methyl-2-Pentanone	0.434	0.385	0.368	0.380	0.369	0.287	0.371	12.9	
Toluene	1.074	0.915	0.862	0.878	0.856	0.727	0.885	12.7	

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



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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: ROYF02
 Lab Code: CHEM Case No.: Q1664 SAS No.: Q1664 SDG No.: Q1664
 Instrument ID: MSVOA_N Calibration Date(s): 03/18/2025 03/18/2025
 Heated Purge: (Y/N) N Calibration Time(s): 11:44 14:09
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:		RRF100 = VN085996.D		RRF050 = VN085997.D		RRF020 = VN085998.D			
		RRF010 = VN085999.D		RRF005 = VN086000.D		RRF001 = VN086001.D			
COMPOUND	RRF100	RRF050	RRF020	RRF010	RRF005	RRF001	RRF	% RSD	
t-1,3-Dichloropropene	0.646	0.539	0.504	0.506	0.501	0.446	0.524	12.8	
cis-1,3-Dichloropropene	0.659	0.568	0.533	0.555	0.537	0.464	0.553	11.5	
1,1,2-Trichloroethane	0.382	0.327	0.316	0.330	0.338	0.335	0.338	6.7	
2-Hexanone	0.334	0.284	0.269	0.270	0.261	0.202	0.270	15.7	
Dibromochloromethane	0.503	0.432	0.408	0.422	0.436	0.416	0.436	7.8	
1,2-Dibromoethane	0.400	0.351	0.326	0.343	0.337	0.325	0.347	8	
Tetrachloroethene	0.407	0.371	0.370	0.390	0.421	0.433	0.399	6.6	
Chlorobenzene	1.229	1.085	1.070	1.116	1.156	1.208	1.144	5.7	
Ethyl Benzene	2.209	1.918	1.744	1.769	1.755	1.586	1.830	11.7	
m/p-Xylenes	0.867	0.756	0.700	0.690	0.660	0.643	0.719	11.4	
o-Xylene	0.831	0.713	0.655	0.645	0.585	0.532	0.660	15.8	
Styrene	1.431	1.219	1.115	1.044	1.032	0.924	1.128	15.8	
Bromoform	0.392	0.345	0.329	0.342	0.355	0.371	0.356	6.4	
Isopropylbenzene	3.863	3.599	3.251	3.470	3.264	3.039	3.414	8.6	
1,1,2,2-Tetrachloroethane	1.076	1.052	1.041	1.191	1.261	1.311	1.155	10	
1,3-Dichlorobenzene	1.842	1.685	1.614	1.749	1.718	1.688	1.716	4.5	
1,4-Dichlorobenzene	1.825	1.667	1.621	1.756	1.907	2.043	1.803	8.7	
1,2-Dichlorobenzene	1.716	1.598	1.522	1.673	1.724	2.004	1.706	9.7	
1,2-Dibromo-3-Chloropropane	0.240	0.221	0.216	0.266	0.250	0.192	0.231	11.5	
1,2,4-Trichlorobenzene	0.952	0.850	0.779	0.815	0.851	0.899	0.858	7.1	
1,2,3-Trichlorobenzene	0.900	0.829	0.772	0.794	0.791	0.798	0.814	5.7	
1,2-Dichloroethane-d4	0.632	0.665	0.669	0.721	0.737		0.685	6.3	
Dibromofluoromethane	0.333	0.334	0.347	0.362	0.368		0.349	4.5	
Toluene-d8	1.309	1.266	1.253	1.289	1.217		1.267	2.8	
4-Bromofluorobenzene	0.514	0.466	0.447	0.440	0.391		0.452	9.8	

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

Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
 Method File : 82N031825W.M
 Title : SW846 8260
 Last Update : Wed Mar 19 03:20:56 2025
 Response Via : Initial Calibration

Calibration Files

1 =VN086001.D 5 =VN086000.D 10 =VN085999.D 20 =VN085998.D 50 =VN085997.D 100 =VN085996.D

	Compound	1	5	10	20	50	100	Avg	%RSD
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.678	0.697	0.649	0.600	0.643	0.707	0.662	6.01
3) P	Chloromethane	0.683	0.612	0.544	0.514	0.557	0.575	0.581	10.29
4) C	Vinyl Chloride	0.592	0.634	0.581	0.541	0.592	0.622	0.594	5.53#
5) T	Bromomethane		0.466	0.411	0.377	0.381	0.388	0.404	9.16
6) T	Chloroethane	0.446	0.403	0.378	0.334	0.330	0.355	0.375	11.93
7) T	Trichlorofluor...	1.267	1.107	1.035	0.959	0.977	1.059	1.067	10.48
8) T	Diethyl Ether	0.336	0.309	0.322	0.315	0.324	0.354	0.327	4.93
9) T	1,1,2-Trichlor...	0.659	0.590	0.553	0.512	0.515	0.574	0.567	9.66
10) T	Methyl Iodide		0.766	0.710	0.681	0.728	0.811	0.739	6.80
11) T	Tert butyl alc...		0.108	0.097	0.091	0.094	0.094	0.097	6.70
12) CM	1,1-Dichloroet...	0.415	0.550	0.545	0.481	0.516	0.567	0.512	11.02#
13) T	Acrolein		0.115	0.099	0.104	0.100	0.099	0.103	6.75
14) T	Allyl chloride	0.664	0.684	0.615	0.572	0.617	0.683	0.639	7.03
15) T	Acrylonitrile	0.252	0.271	0.255	0.245	0.248	0.266	0.256	4.01
16) T	Acetone	0.223	0.213	0.195	0.179	0.194	0.251	0.209	12.36
17) T	Carbon Disulfide	2.107	1.765	1.610	1.467	1.510	1.649	1.685	13.78
18) T	Methyl Acetate	0.667	0.542	0.504	0.434	0.469	0.488	0.518	15.79
19) T	Methyl tert-bu...	1.673	1.638	1.604	1.578	1.691	1.888	1.679	6.61
20) T	Methylene Chlo...	0.731	0.639	0.572	0.551	0.565	0.613	0.612	10.93
21) T	trans-1,2-Dich...	0.591	0.564	0.546	0.521	0.534	0.603	0.560	5.81
22) T	Diisopropyl ether	1.166	1.387	1.394	1.317	1.378	1.528	1.362	8.68
23) T	Vinyl Acetate	0.866	1.023	1.017	1.024	1.067	1.196	1.032	10.24
24) P	1,1-Dichloroet...	1.130	1.032	0.968	0.908	0.949	1.023	1.001	7.79
25) T	2-Butanone	0.296	0.319	0.297	0.277	0.292	0.331	0.302	6.50
26) T	2,2-Dichloropr...	1.004	1.017	0.925	0.880	0.926	1.032	0.964	6.41
27) T	cis-1,2-Dichlo...	0.632	0.656	0.617	0.591	0.633	0.688	0.636	5.25
28) T	Bromochloromet...	0.521	0.430	0.404	0.398	0.391	0.403	0.424	11.60
29) T	Tetrahydrofuran	0.152	0.197	0.189	0.183	0.194	0.204	0.186	9.74
30) C	Chloroform	1.245	1.149	1.101	1.011	1.017	1.119	1.107	7.90#
31) T	Cyclohexane		0.957	0.854	0.765	0.799	0.890	0.853	8.87
32) T	1,1,1-Trichlor...	1.124	1.097	1.025	0.962	0.986	1.093	1.048	6.32
33) S	1,2-Dichloroet...		0.737	0.721	0.669	0.665	0.632	0.685	6.30
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...		0.368	0.362	0.347	0.334	0.333	0.349	4.54
36) T	1,1-Dichloropr...	0.457	0.454	0.443	0.421	0.454	0.528	0.460	7.89
37) T	Ethyl Acetate	0.388	0.412	0.393	0.366	0.367	0.400	0.388	4.65
38) T	Carbon Tetrach...	0.624	0.613	0.580	0.557	0.578	0.673	0.604	6.90
39) T	Methylcyclohexane	0.438	0.426	0.399	0.419	0.475	0.579	0.456	14.34
40) TM	Benzene	1.466	1.453	1.386	1.348	1.393	1.610	1.443	6.46
41) T	Methacrylonitrile	0.132	0.188	0.191	0.187	0.193	0.220	0.185	15.66
42) TM	1,2-Dichloroet...	0.521	0.528	0.491	0.462	0.475	0.538	0.503	6.12
43) T	Isopropyl Acetate	1.123	0.840	0.886	0.793	0.688	0.711	0.840	18.77
44) TM	Trichloroethene	0.435	0.380	0.353	0.335	0.346	0.394	0.374	9.98
45) C	1,2-Dichloropr...	0.309	0.333	0.321	0.319	0.321	0.366	0.328	6.16#
46) T	Dibromomethane	0.274	0.268	0.251	0.234	0.243	0.279	0.258	7.09
47) T	Bromodichlorom...	0.537	0.561	0.515	0.506	0.516	0.600	0.539	6.58
48) T	Methyl methacr...	0.255	0.257	0.265	0.268	0.289	0.328	0.277	9.99
49) T	1,4-Dioxane	0.005	0.007	0.007	0.006	0.007	0.007	0.007	16.08
50) S	Toluene-d8		1.217	1.289	1.253	1.266	1.309	1.267	2.78
51) T	4-Methyl-2-Pen...	0.287	0.369	0.380	0.368	0.385	0.434	0.371	12.88
52) CM	Toluene	0.727	0.856	0.878	0.862	0.915	1.074	0.885	12.66#
53) T	t-1,3-Dichloro...	0.446	0.501	0.506	0.504	0.539	0.646	0.524	12.80
54) T	cis-1,3-Dichlo...	0.464	0.537	0.555	0.533	0.568	0.659	0.553	11.46
55) T	1,1,2-Trichlor...	0.335	0.338	0.330	0.316	0.327	0.382	0.338	6.72
56) T	Ethyl methacry...	0.298	0.413	0.445	0.463	0.526	0.633	0.463	24.21

Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
 Method File : 82N031825W.M

57)	T	1,3-Dichloropr...	0.551	0.558	0.571	0.539	0.567	0.657	0.574	7.39
58)	T	2-Chloroethyl ...	0.134	0.190	0.200	0.116	0.213	0.242	0.183	26.31
59)	T	2-Hexanone	0.202	0.261	0.270	0.269	0.284	0.334	0.270	15.74
60)	T	Dibromochlorom...	0.416	0.436	0.422	0.408	0.432	0.503	0.436	7.83
61)	T	1,2-Dibromoethane	0.325	0.337	0.343	0.326	0.351	0.400	0.347	8.01
62)	S	4-Bromofluorob...	0.391	0.440	0.447	0.466	0.514	0.452		9.82
63)	I	Chlorobenzene-d5	-----ISTD-----							
64)	T	Tetrachloroethene	0.433	0.421	0.390	0.370	0.371	0.407	0.399	6.57
65)	PM	Chlorobenzene	1.208	1.156	1.116	1.070	1.085	1.229	1.144	5.69
66)	T	1,1,1,2-Tetrac...	0.445	0.445	0.414	0.388	0.407	0.452	0.425	6.05
67)	C	Ethyl Benzene	1.586	1.755	1.769	1.744	1.918	2.209	1.830	11.67#
68)	T	m/p-Xylenes	0.643	0.660	0.690	0.700	0.756	0.867	0.719	11.40
69)	T	o-Xylene	0.532	0.585	0.645	0.655	0.713	0.831	0.660	15.83
70)	T	Styrene	0.924	1.032	1.044	1.115	1.219	1.431	1.128	15.79
71)	P	Bromoform	0.371	0.355	0.342	0.329	0.345	0.392	0.356	6.39
72)	I	1,4-Dichlorobenzen...	-----ISTD-----							
73)	T	Isopropylbenzene	3.039	3.264	3.470	3.251	3.599	3.863	3.414	8.58
74)	T	N-amyl acetate	0.984	1.098	1.153	1.121	1.220	1.278	1.142	8.93
75)	P	1,1,2,2-Tetrac...	1.311	1.261	1.191	1.041	1.052	1.076	1.155	10.01
76)	T	1,2,3-Trichlor...	0.925	1.264	1.153	1.148	1.157	1.070	1.119	10.14
77)	T	Bromobenzene	1.000	0.994	0.966	0.878	0.910	0.964	0.952	5.10
78)	T	n-propylbenzene	3.148	3.686	3.862	3.774	4.183	4.546	3.866	12.24
79)	T	2-Chlorotoluene	2.335	2.574	2.587	2.473	2.620	2.820	2.568	6.29
80)	T	1,3,5-Trimethy...	2.392	2.639	2.903	2.845	3.118	3.399	2.883	12.25
81)	T	trans-1,4-Dich...	0.397	0.401	0.420	0.414	0.486	0.423		8.50
82)	T	4-Chlorotoluene	2.443	2.567	2.661	2.558	2.696	2.921	2.641	6.19
83)	T	tert-Butylbenzene	2.380	2.278	2.517	2.289	2.547	2.782	2.466	7.76
84)	T	1,2,4-Trimethy...	2.330	2.684	2.944	2.886	3.130	3.472	2.908	13.35
85)	T	sec-Butylbenzene	2.423	3.008	3.247	3.174	3.514	3.932	3.216	15.71
86)	T	p-Isopropyltol...	2.088	2.410	2.688	2.670	3.037	3.443	2.723	17.41
87)	T	1,3-Dichlorobe...	1.688	1.718	1.749	1.614	1.685	1.842	1.716	4.46
88)	T	1,4-Dichlorobe...	2.043	1.907	1.756	1.621	1.667	1.825	1.803	8.71
89)	T	n-Butylbenzene	1.876	1.981	2.079	2.067	2.424	2.876	2.217	16.76
90)	T	Hexachloroethane	0.766	0.648	0.595	0.542	0.582	0.637	0.628	12.37
91)	T	1,2-Dichlorobe...	2.004	1.724	1.673	1.522	1.598	1.716	1.706	9.66
92)	T	1,2-Dibromo-3-...	0.192	0.250	0.266	0.216	0.221	0.240	0.231	11.50
93)	T	1,2,4-Trichlor...	0.899	0.851	0.815	0.779	0.850	0.952	0.858	7.14
94)	T	Hexachlorobuta...	0.579	0.522	0.500	0.454	0.442	0.488	0.498	9.98
95)	T	Naphthalene	2.499	2.211	2.423	2.306	2.606	2.860	2.484	9.30
96)	T	1,2,3-Trichlor...	0.798	0.791	0.794	0.772	0.829	0.900	0.814	5.65

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031825\
 Data File : VN085996.D
 Acq On : 18 Mar 2025 11:44
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Quant Time: Mar 19 02:52:06 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 19 02:30:27 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

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

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	182974	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	280238	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	267544	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	147510	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	231291	92.312	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 184.620%#			
35) Dibromofluoromethane	8.165	113	186688	95.442	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 190.880%#			
50) Toluene-d8	10.565	98	733621	103.341	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 206.680%#			
62) 4-Bromofluorobenzene	12.847	95	288124	113.805	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 227.620%#			
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	2.124	85	258760	106.744	ug/l	100
3) Chloromethane	2.359	50	210559	99.080	ug/l	99
4) Vinyl Chloride	2.506	62	227757	104.817	ug/l	99
5) Bromomethane	2.930	94	141847	95.836	ug/l	95
6) Chloroethane	3.106	64	130043	94.868	ug/l	90
7) Trichlorofluoromethane	3.489	101	387652	99.243	ug/l	99
8) Diethyl Ether	3.953	74	129491	108.290	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.365	101	209946	101.130	ug/l	99
10) Methyl Iodide	4.583	142	296609	109.651	ug/l	95
11) Tert butyl alcohol	5.518	59	172466	486.176	ug/l	99
12) 1,1-Dichloroethene	4.336	96	207400	110.639	ug/l	96
13) Acrolein	4.171	56	180315	476.573	ug/l	98
14) Allyl chloride	5.018	41	249826	106.826	ug/l	98
15) Acrylonitrile	5.712	53	486527	519.314	ug/l	99
16) Acetone	4.418	43	459532	600.330	ug/l	100
17) Carbon Disulfide	4.706	76	603612	97.911	ug/l	99
18) Methyl Acetate	5.018	43	178753	94.384	ug/l	100
19) Methyl tert-butyl Ether	5.789	73	690939	112.481	ug/l	99
20) Methylene Chloride	5.265	84	224327	100.177	ug/l	99
21) trans-1,2-Dichloroethene	5.783	96	220657	107.710	ug/l	99
22) Diisopropyl ether	6.665	45	559282	112.225	ug/l	99
23) Vinyl Acetate	6.600	43	2187667	579.034	ug/l	100
24) 1,1-Dichloroethane	6.559	63	374239	102.121	ug/l	99
25) 2-Butanone	7.477	43	605615	548.306	ug/l	99
26) 2,2-Dichloropropane	7.483	77	377635	107.034	ug/l	98
27) cis-1,2-Dichloroethene	7.483	96	251929	108.218	ug/l	98
28) Bromochloromethane	7.812	49	147305	94.874	ug/l	98
29) Tetrahydrofuran	7.830	42	372372	546.087	ug/l	99
30) Chloroform	7.965	83	409546	101.106	ug/l	99
31) Cyclohexane	8.253	56	325757	104.345	ug/l	99
32) 1,1,1-Trichloroethane	8.165	97	400089	104.344	ug/l	98
36) 1,1-Dichloropropene	8.365	75	296177	114.993	ug/l	100
37) Ethyl Acetate	7.559	43	224022	103.099	ug/l	98
38) Carbon Tetrachloride	8.359	117	377239	111.395	ug/l	98
39) Methylcyclohexane	9.600	83	324420	126.957	ug/l	97
40) Benzene	8.600	78	902443	111.613	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031825\
 Data File : VN085996.D
 Acq On : 18 Mar 2025 11:44
 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 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025

Quant Time: Mar 19 02:52:06 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M

Quant Title : SW846 8260

QLast Update : Wed Mar 19 02:30:27 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	123440	118.971	ug/l	95
42) 1,2-Dichloroethane	8.665	62	301678	107.080	ug/l	99
43) Isopropyl Acetate	8.683	43	398367	84.427	ug/l	99
44) Trichloroethene	9.347	130	220997	105.460	ug/l	92
45) 1,2-Dichloropropane	9.618	63	205313	111.644	ug/l	97
46) Dibromomethane	9.706	93	156183	107.992	ug/l	100
47) Bromodichloromethane	9.882	83	336242	111.244	ug/l	99
48) Methyl methacrylate	9.677	41	183832	118.314	ug/l	98
49) 1,4-Dioxane	9.688	88	83630	2276.865	ug/l	94
51) 4-Methyl-2-Pentanone	10.441	43	1216534	585.839	ug/l	100
52) Toluene	10.629	92	601872	121.286	ug/l	99
53) t-1,3-Dichloropropene	10.835	75	362129	123.365	ug/l	98
54) cis-1,3-Dichloropropene	10.306	75	369494	119.304	ug/l	98
55) 1,1,2-Trichloroethane	11.012	97	213909	112.938	ug/l	96
56) Ethyl methacrylate	10.871	69	354676	100.009	ug/l	99
57) 1,3-Dichloropropane	11.159	76	368384	114.512	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.159	63	678829	498.510	ug/l	99
59) 2-Hexanone	11.194	43	935328	618.290	ug/l	99
60) Dibromochloromethane	11.359	129	281651	115.239	ug/l	99
61) 1,2-Dibromoethane	11.465	107	224197	115.301	ug/l	98
64) Tetrachloroethene	11.100	164	217951	102.122	ug/l	98
65) Chlorobenzene	11.888	112	657655	107.422	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.959	131	241702	106.205	ug/l	98
67) Ethyl Benzene	11.959	91	1182051	120.702	ug/l	99
68) m/p-Xylenes	12.071	106	927553	240.977	ug/l	99
69) o-Xylene	12.394	106	444866	125.926	ug/l	99
70) Styrene	12.412	104	765959	126.938	ug/l	100
71) Bromoform	12.576	173	209637	110.191	ug/l #	99
73) Isopropylbenzene	12.694	105	1139716	113.143	ug/l	100
74) N-amyl acetate	12.494	43	377161	111.912	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.935	83	317335	93.117	ug/l	99
76) 1,2,3-Trichloropropane	12.994	75	315551m	93.831	ug/l	
77) Bromobenzene	12.976	156	284449	101.270	ug/l	100
78) n-propylbenzene	13.035	91	1341141	117.577	ug/l	100
79) 2-Chlorotoluene	13.123	91	832060	109.823	ug/l	100
80) 1,3,5-Trimethylbenzene	13.171	105	1002727	117.902	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.735	75	143254	114.684	ug/l	97
82) 4-Chlorotoluene	13.218	91	861737	110.605	ug/l	99
83) tert-Butylbenzene	13.435	119	820651	112.824	ug/l	99
84) 1,2,4-Trimethylbenzene	13.482	105	1024294	119.410	ug/l	100
85) sec-Butylbenzene	13.612	105	1160166	122.266	ug/l	100
86) p-Isopropyltoluene	13.729	119	1015859	126.470	ug/l	100
87) 1,3-Dichlorobenzene	13.729	146	543572	107.364	ug/l	100
88) 1,4-Dichlorobenzene	13.812	146	538505	101.234	ug/l	99
89) n-Butylbenzene	14.053	91	848367	129.699	ug/l	100
90) Hexachloroethane	14.329	117	187906	101.383	ug/l	100
91) 1,2-Dichlorobenzene	14.106	146	506350	100.605	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	70713	103.948	ug/l	95
93) 1,2,4-Trichlorobenzene	15.394	180	280971	111.025	ug/l	99
94) Hexachlorobutadiene	15.500	225	144077	98.130	ug/l	99
95) Naphthalene	15.641	128	843691	115.132	ug/l	100
96) 1,2,3-Trichlorobenzene	15.835	180	265586	110.600	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031825\
Data File : VN085996.D
Acq On : 18 Mar 2025 11:44
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Quant Time: Mar 19 02:52:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 19 02:30:27 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

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

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\VN031825\
Data File : VN085996.D
Acq On : 18 Mar 2025 11:44
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

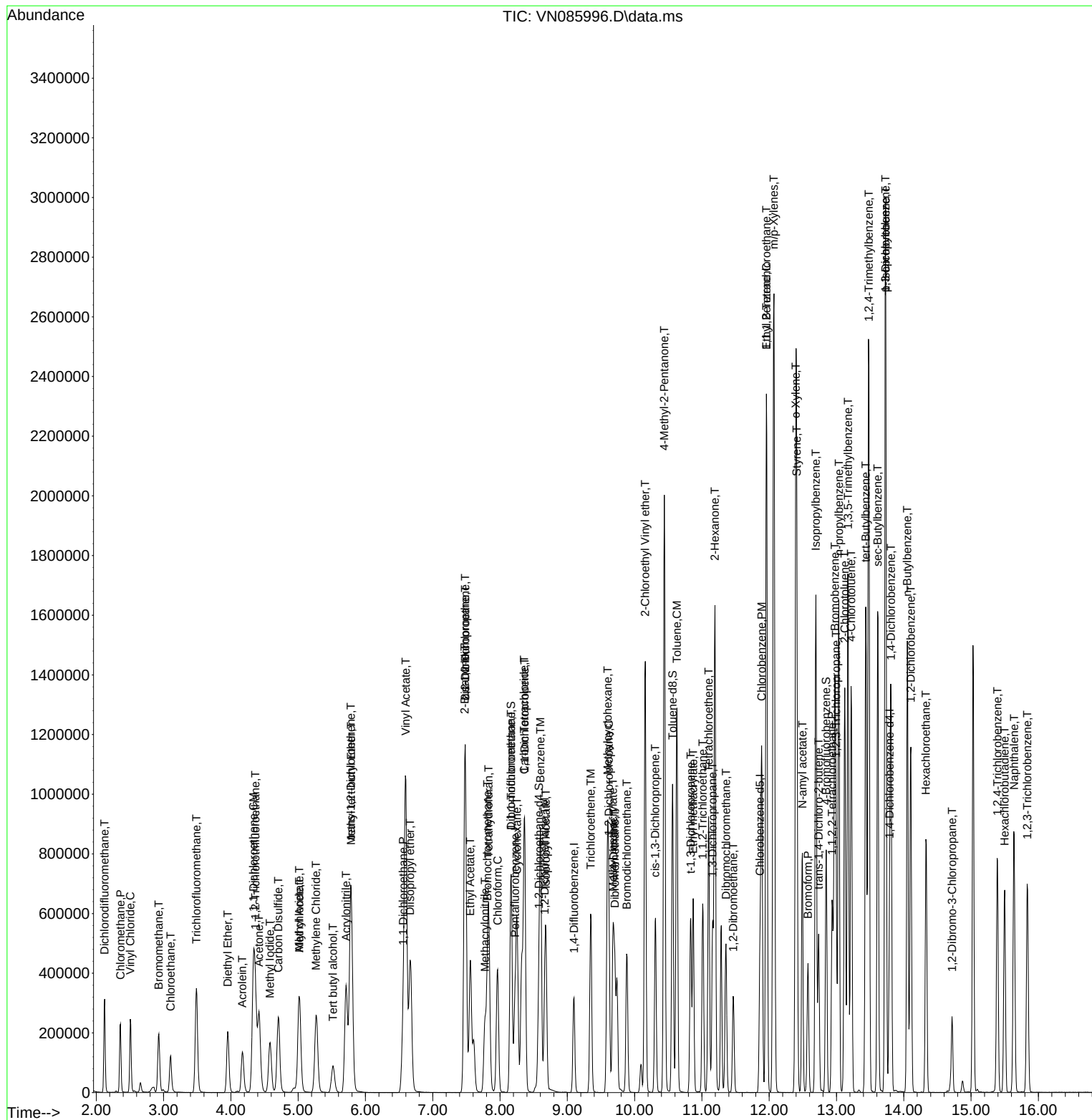
Manual Integrations

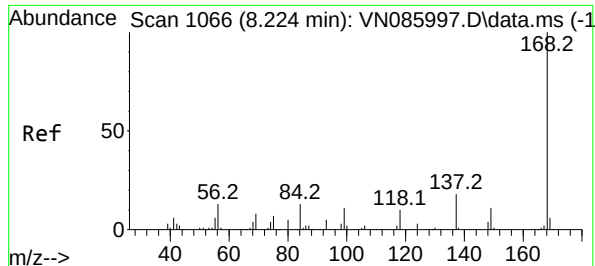
APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025

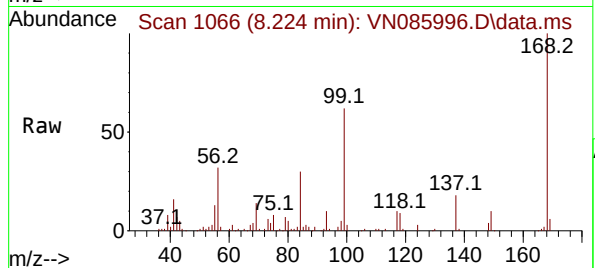
Quant Time: Mar 19 02:52:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 19 02:30:27 2025
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN085996.D
Acq: 18 Mar 2025 11:44

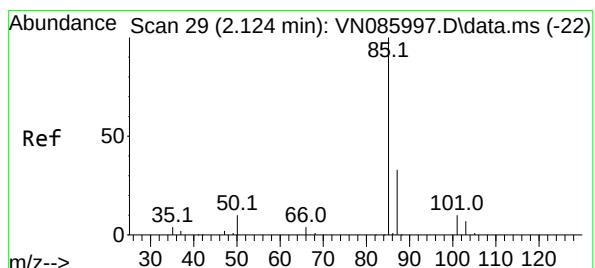
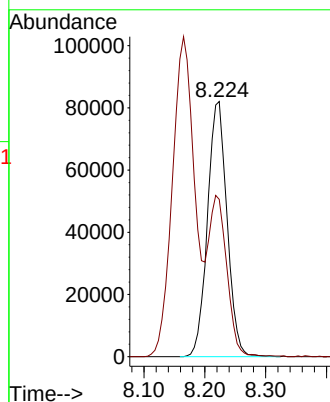
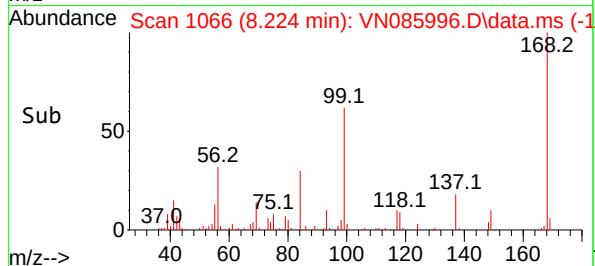
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion:168 Resp: 182974
Ion Ratio Lower Upper
168 100
99 61.4 49.4 74.2

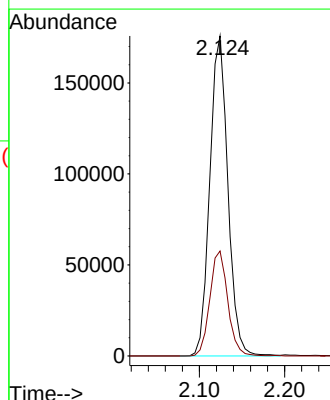
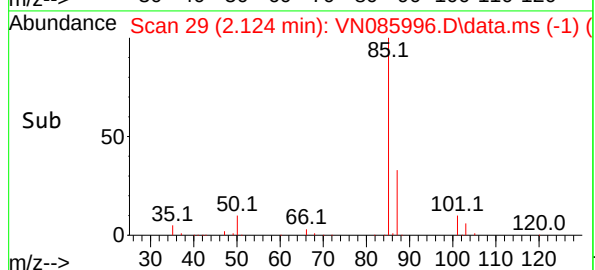
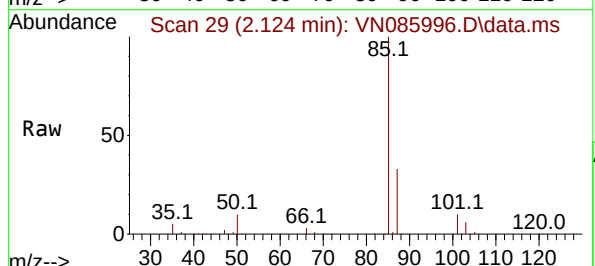
Manual Integrations
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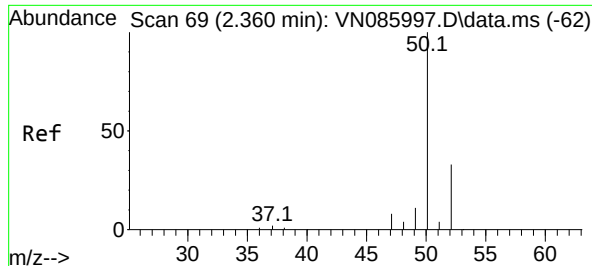
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#2
Dichlorodifluoromethane
Concen: 106.744 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN085996.D
Acq: 18 Mar 2025 11:44

Tgt Ion: 85 Resp: 258760
Ion Ratio Lower Upper
85 100
87 32.8 16.5 49.5





#3

Chloromethane

Concen: 99.080 ug/l

RT: 2.359 min Scan# 69

Delta R.T. -0.000 min

Lab File: VN085996.D

Acq: 18 Mar 2025 11:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 50 Resp: 210559

Ion Ratio Lower Upper

50 100

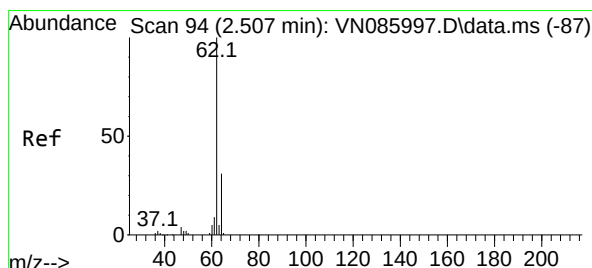
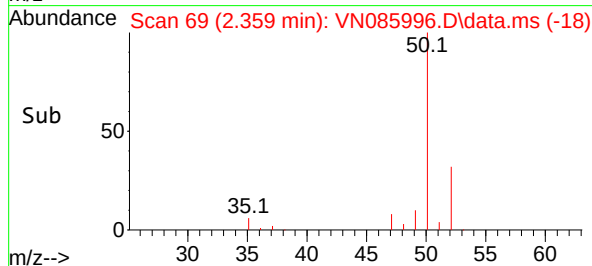
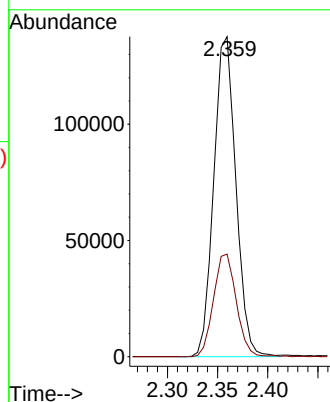
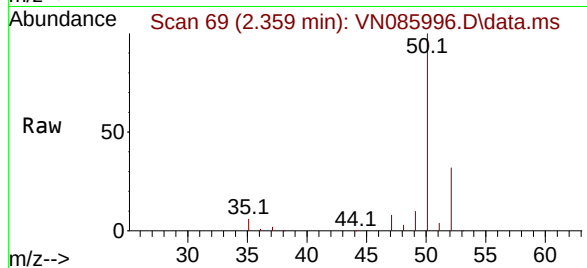
52 32.0 26.0 39.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#4

Vinyl Chloride

Concen: 104.817 ug/l

RT: 2.506 min Scan# 94

Delta R.T. -0.000 min

Lab File: VN085996.D

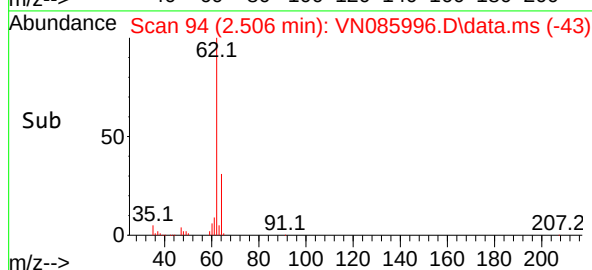
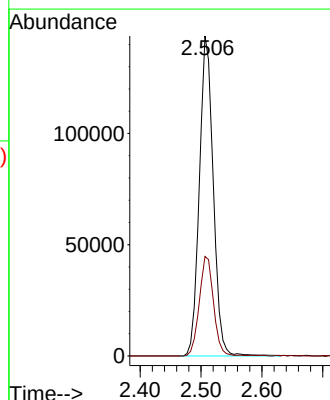
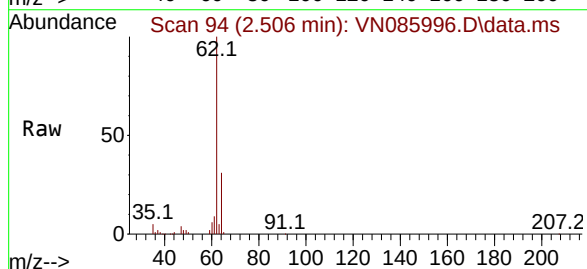
Acq: 18 Mar 2025 11:44

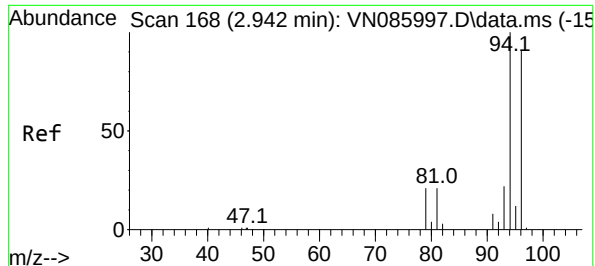
Tgt Ion: 62 Resp: 227757

Ion Ratio Lower Upper

62 100

64 31.1 25.2 37.8





#5

Bromomethane

Concen: 95.836 ug/l

RT: 2.930 min Scan# 1

Delta R.T. -0.012 min

Lab File: VN085996.D

Acq: 18 Mar 2025 11:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 94 Resp: 14184

Ion Ratio Lower Upper

94 100

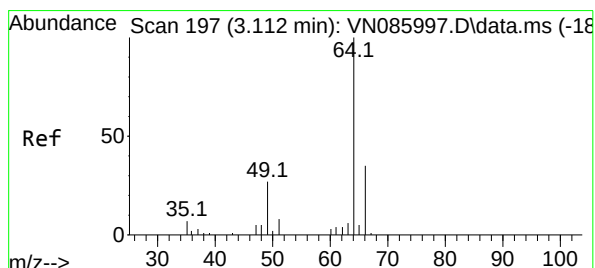
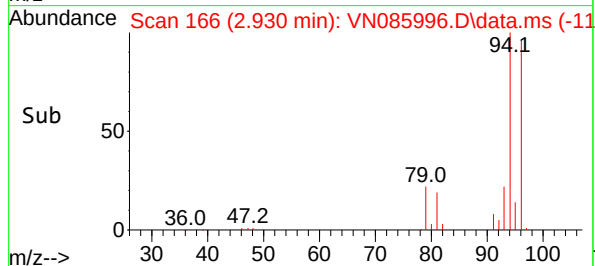
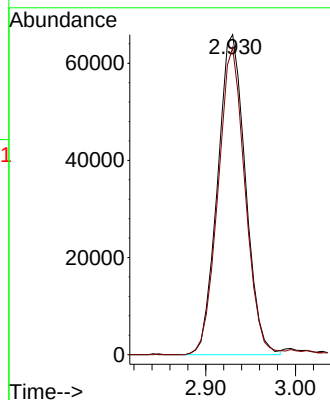
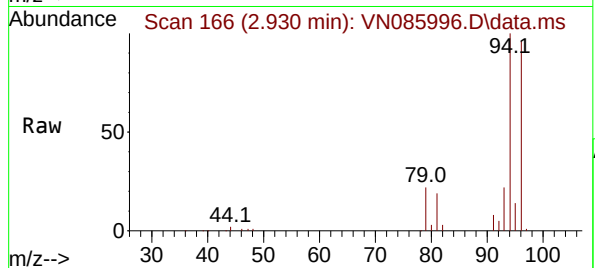
96 95.9 72.8 109.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#6

Chloroethane

Concen: 94.868 ug/l

RT: 3.106 min Scan# 196

Delta R.T. -0.006 min

Lab File: VN085996.D

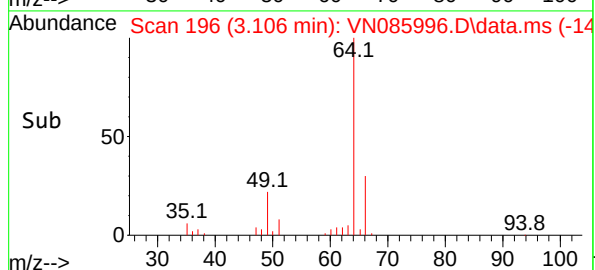
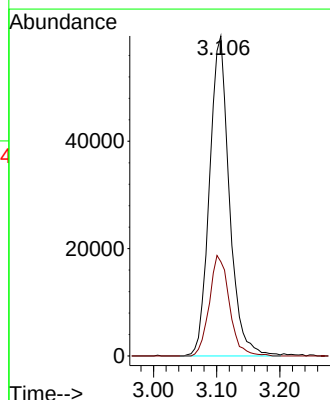
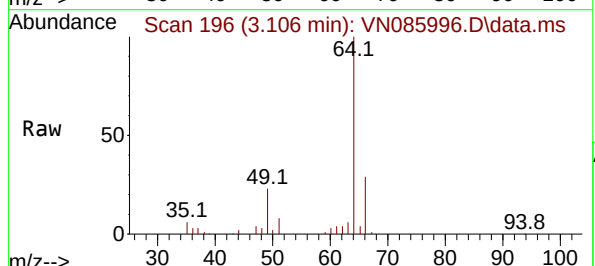
Acq: 18 Mar 2025 11:44

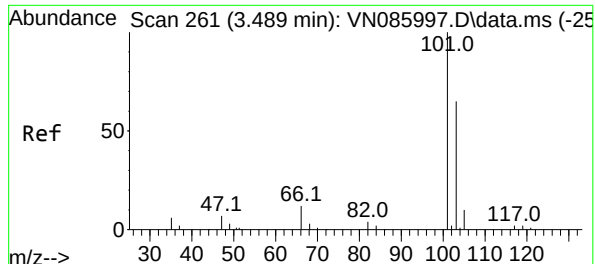
Tgt Ion: 64 Resp: 130043

Ion Ratio Lower Upper

64 100

66 29.5 28.3 42.5





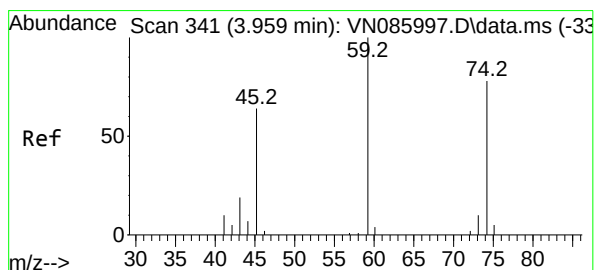
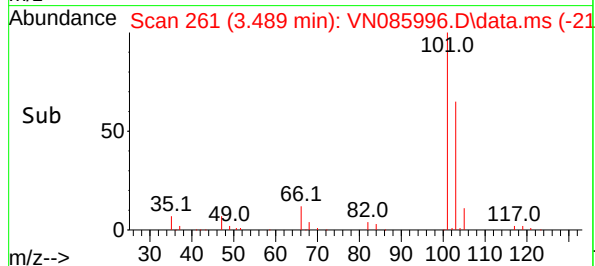
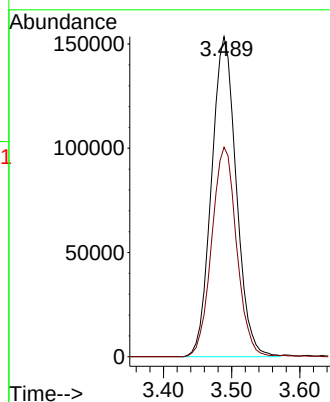
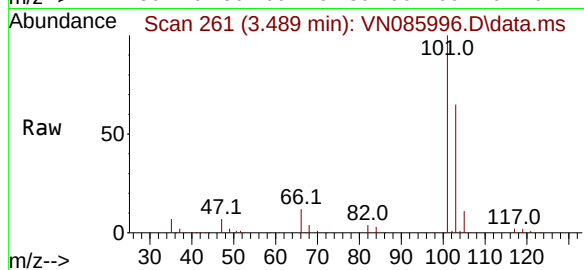
#7
Trichlorofluoromethane
Concen: 99.243 ug/l
RT: 3.489 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN085996.D
Acq: 18 Mar 2025 11:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:101 Resp: 387652
Ion Ratio Lower Upper
101 100
103 65.5 51.7 77.5

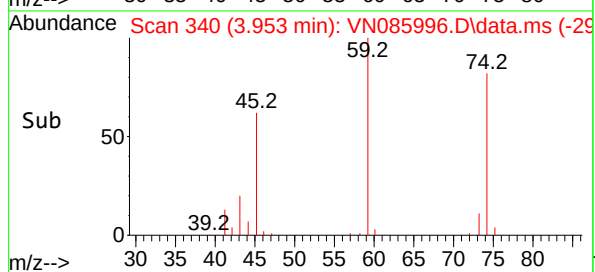
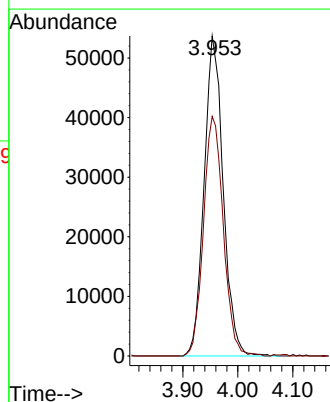
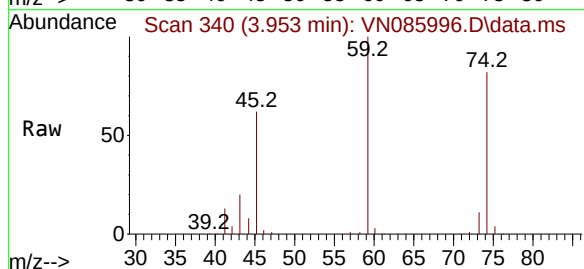
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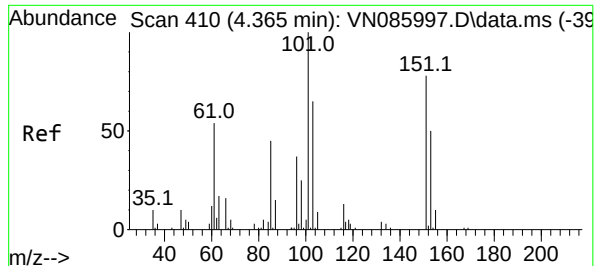
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#8
Diethyl Ether
Concen: 108.290 ug/l
RT: 3.953 min Scan# 340
Delta R.T. -0.006 min
Lab File: VN085996.D
Acq: 18 Mar 2025 11:44

Tgt Ion: 74 Resp: 129491
Ion Ratio Lower Upper
74 100
45 77.8 38.0 113.9





#9

1,1,2-Trichlorotrifluoroethane

Concen: 101.130 ug/l

RT: 4.365 min Scan# 410

Delta R.T. -0.000 min

Lab File: VN085996.D

Acq: 18 Mar 2025 11:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion:101 Resp: 209940

Ion Ratio Lower Upper

101 100

85 46.0 36.5 54.7

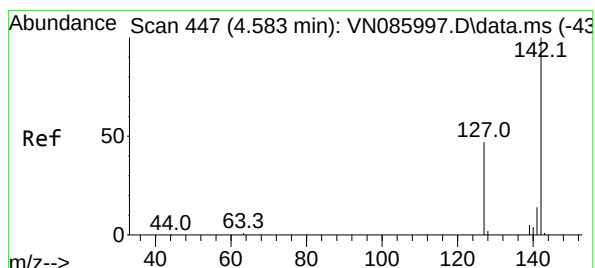
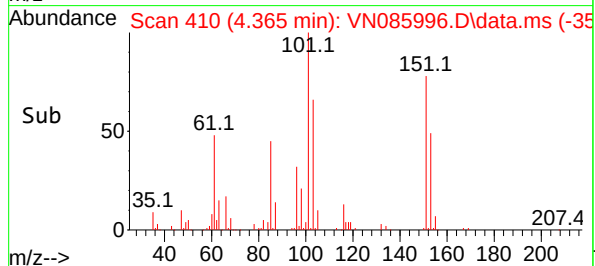
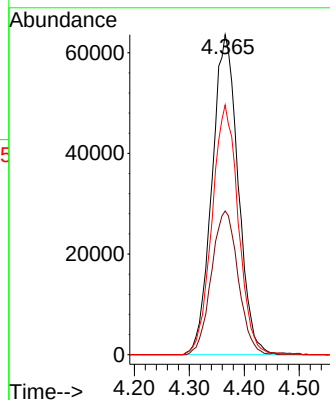
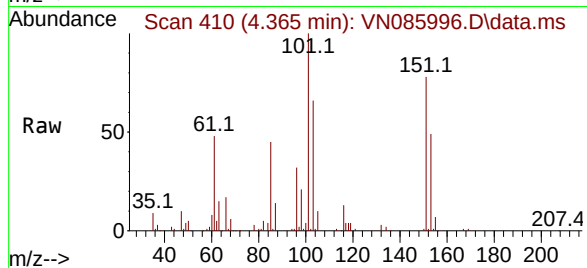
151 78.4 63.4 95.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#10

Methyl Iodide

Concen: 109.651 ug/l

RT: 4.583 min Scan# 447

Delta R.T. -0.000 min

Lab File: VN085996.D

Acq: 18 Mar 2025 11:44

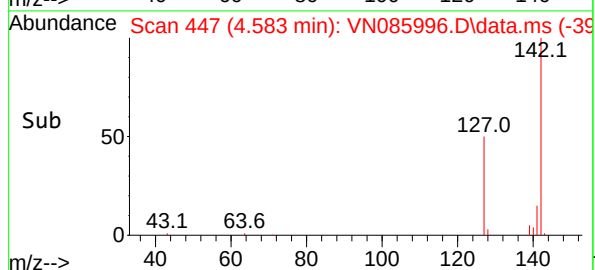
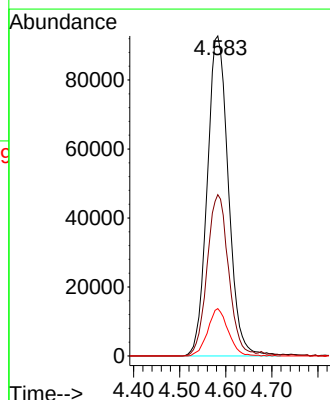
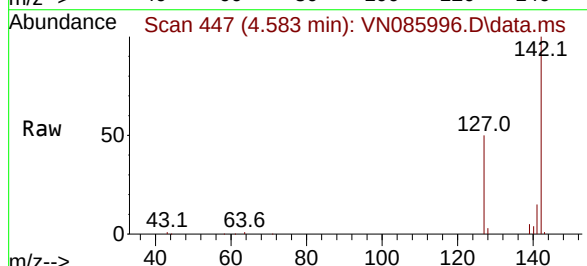
Tgt Ion:142 Resp: 296609

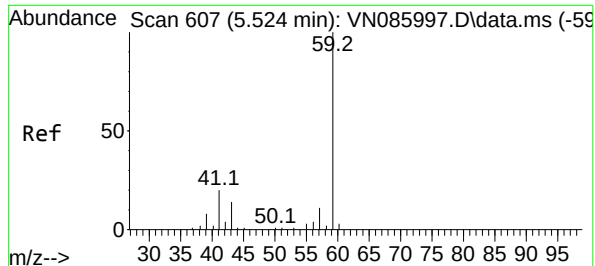
Ion Ratio Lower Upper

142 100

127 50.4 37.5 56.3

141 14.8 11.0 16.6





#11

Tert butyl alcohol

Concen: 486.176 ug/l

RT: 5.518 min Scan# 607

Delta R.T. -0.006 min

Lab File: VN085996.D

Acq: 18 Mar 2025 11:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 59 Resp: 172460

Ion Ratio Lower Upper

59 100

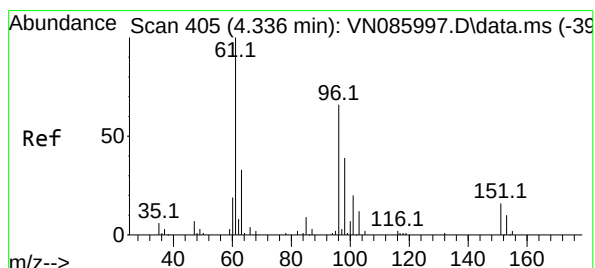
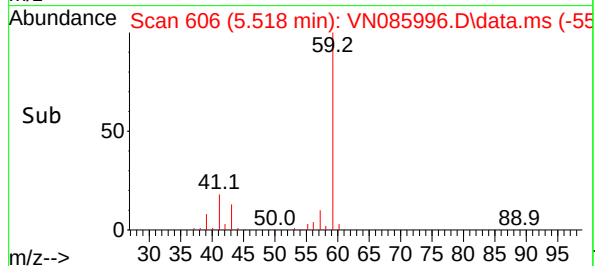
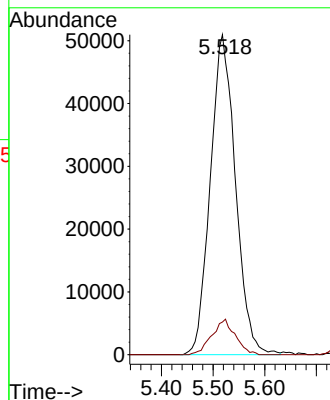
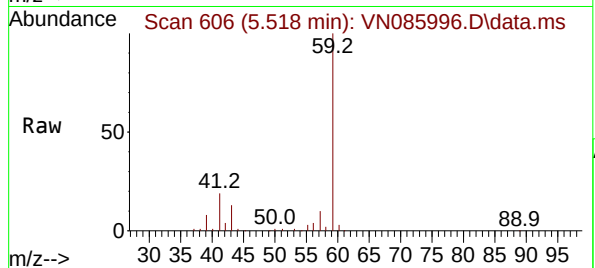
57 10.3 7.9 11.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#12

1,1-Dichloroethene

Concen: 110.639 ug/l

RT: 4.336 min Scan# 405

Delta R.T. -0.000 min

Lab File: VN085996.D

Acq: 18 Mar 2025 11:44

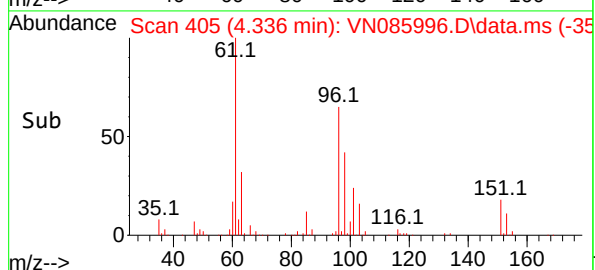
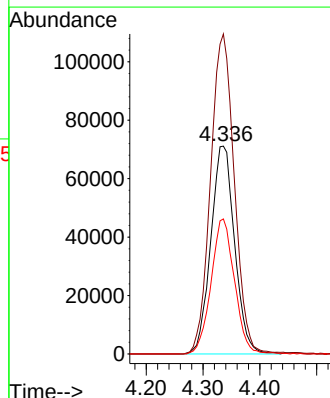
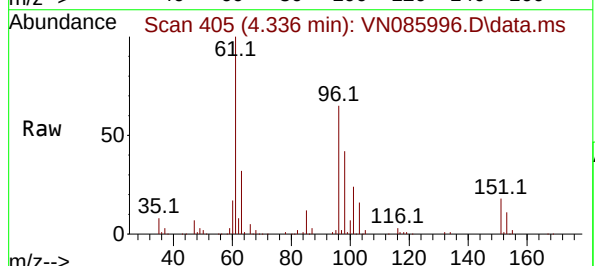
Tgt Ion: 96 Resp: 207400

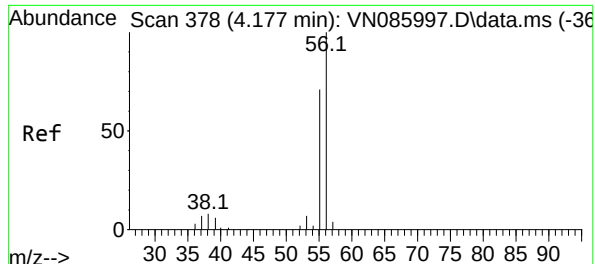
Ion Ratio Lower Upper

96 100

61 153.9 120.5 180.7

98 65.0 47.4 71.0





#13

Acrolein

Concen: 476.573 ug/l

RT: 4.171 min Scan# 31

Delta R.T. -0.006 min

Lab File: VN085996.D

Acq: 18 Mar 2025 11:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 56 Resp: 18031

Ion Ratio Lower Upper

56 100

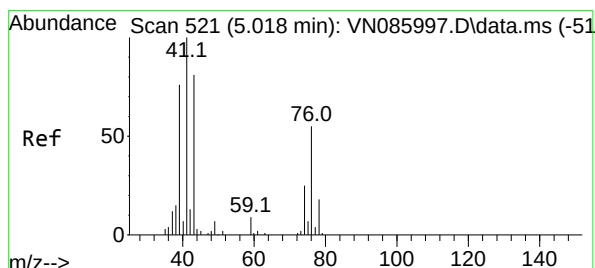
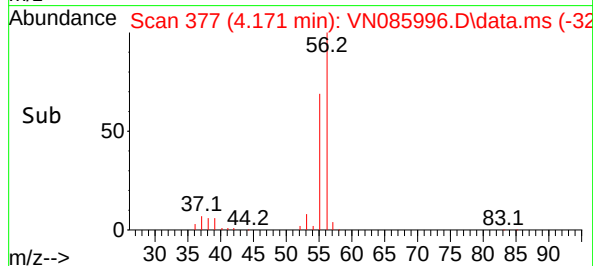
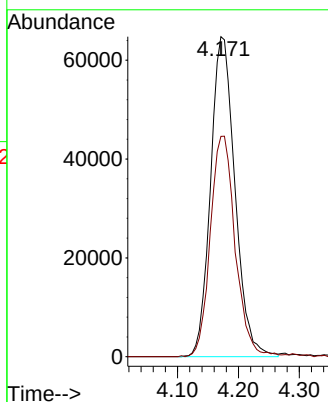
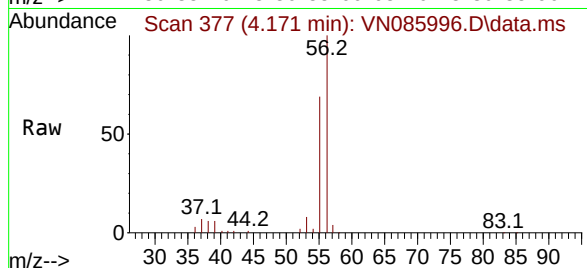
55 70.2 55.1 82.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#14

Allyl chloride

Concen: 106.826 ug/l

RT: 5.018 min Scan# 521

Delta R.T. -0.000 min

Lab File: VN085996.D

Acq: 18 Mar 2025 11:44

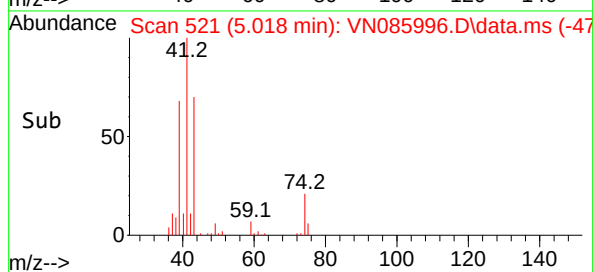
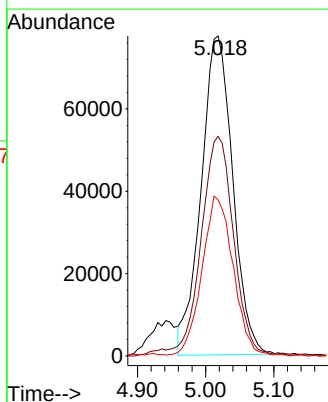
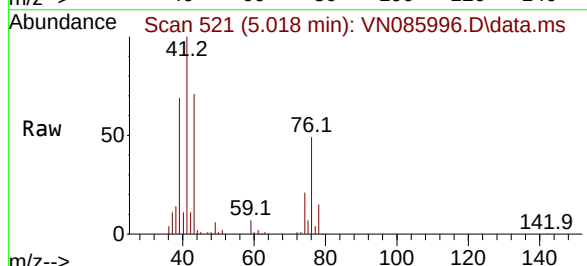
Tgt Ion: 41 Resp: 249826

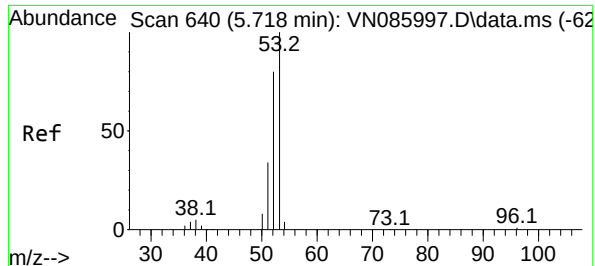
Ion Ratio Lower Upper

41 100

39 71.6 55.5 83.3

76 48.6 39.1 58.7





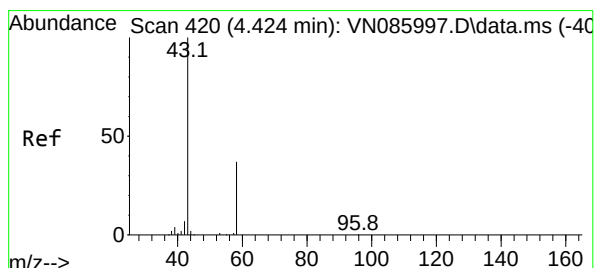
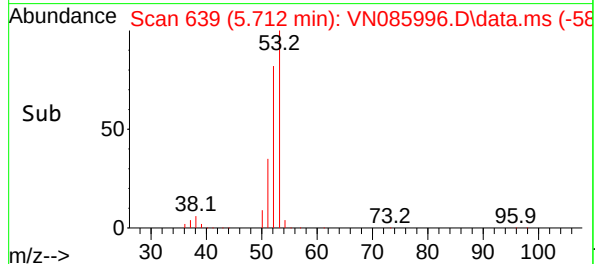
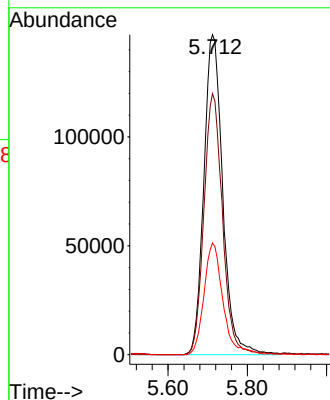
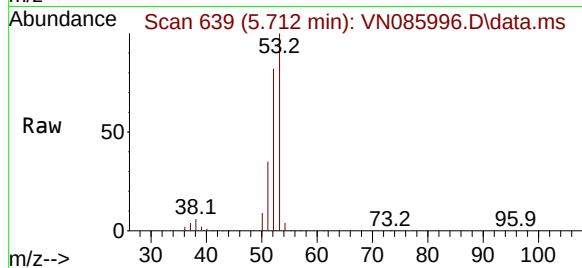
#15
Acrylonitrile
Concen: 519.314 ug/l
RT: 5.712 min Scan# 61
Delta R.T. -0.006 min
Lab File: VN085996.D
Acq: 18 Mar 2025 11:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 53 Resp: 48652
Ion Ratio Lower Upper
53 100
52 80.2 63.9 95.9
51 35.2 27.1 40.7

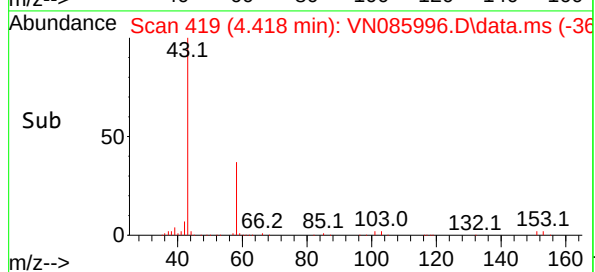
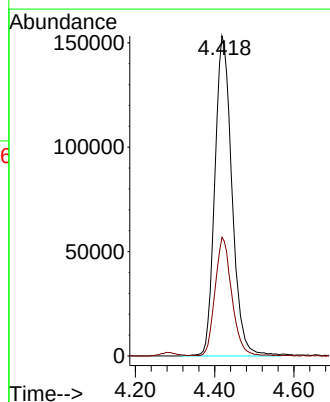
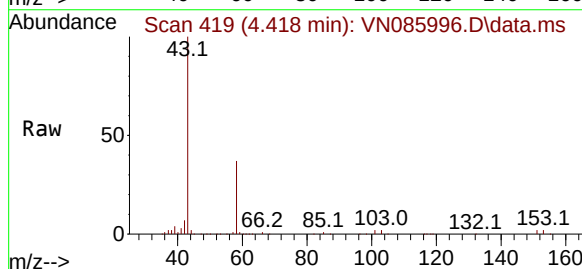
Manual Integrations
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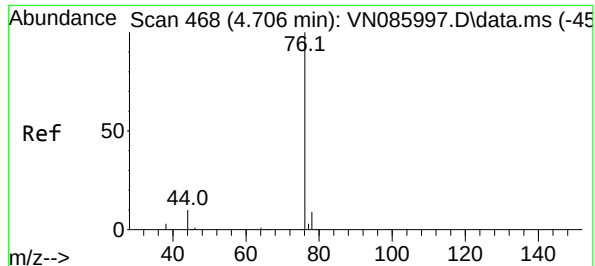
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#16
Acetone
Concen: 600.330 ug/l
RT: 4.418 min Scan# 419
Delta R.T. -0.006 min
Lab File: VN085996.D
Acq: 18 Mar 2025 11:44

Tgt Ion: 43 Resp: 459532
Ion Ratio Lower Upper
43 100
58 36.9 29.4 44.2





#17

Carbon Disulfide

Concen: 97.911 ug/l

RT: 4.706 min Scan# 40

Delta R.T. -0.000 min

Lab File: VN085996.D

Acq: 18 Mar 2025 11:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 76 Resp: 60361

Ion Ratio Lower Upper

76 100

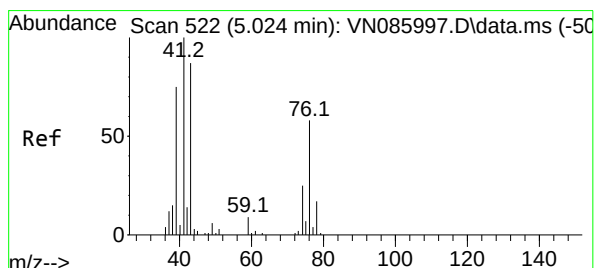
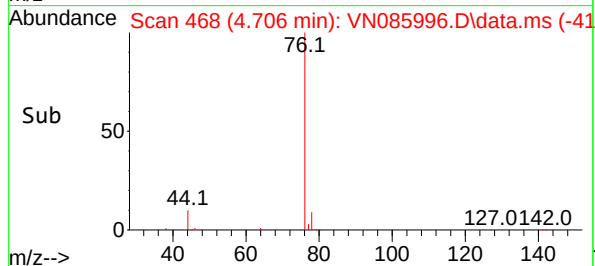
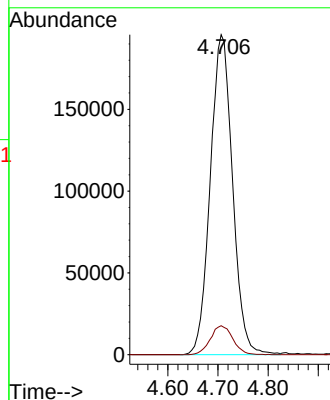
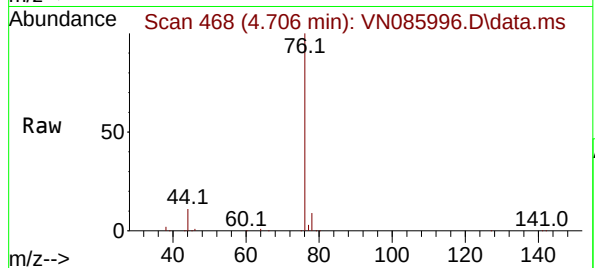
78 9.1 7.4 11.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#18

Methyl Acetate

Concen: 94.384 ug/l

RT: 5.018 min Scan# 521

Delta R.T. -0.006 min

Lab File: VN085996.D

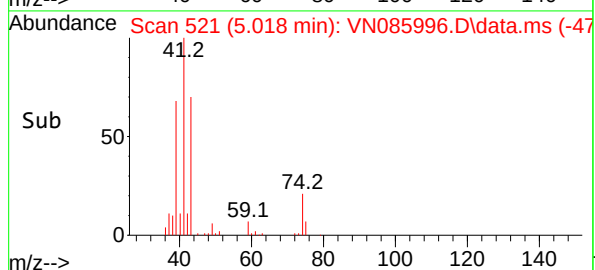
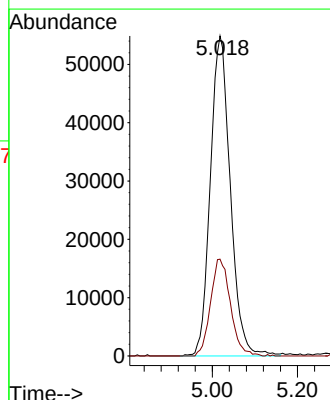
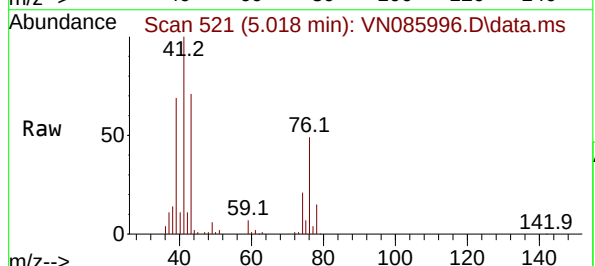
Acq: 18 Mar 2025 11:44

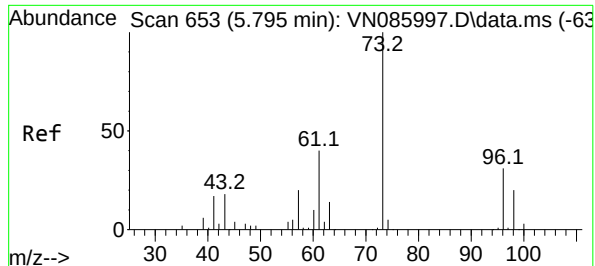
Tgt Ion: 43 Resp: 178753

Ion Ratio Lower Upper

43 100

74 30.1 23.9 35.9





#19

Methyl tert-butyl Ether

Concen: 112.481 ug/l

RT: 5.789 min Scan# 61

Delta R.T. -0.006 min

Lab File: VN085996.D

Acq: 18 Mar 2025 11:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 73 Resp: 690939

Ion Ratio Lower Upper

73 100

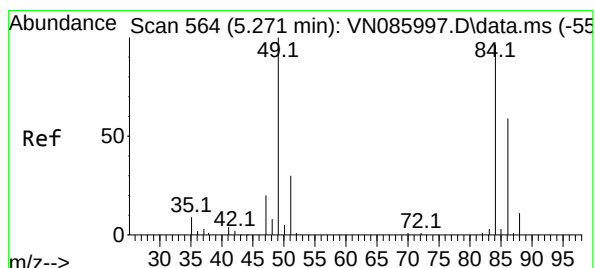
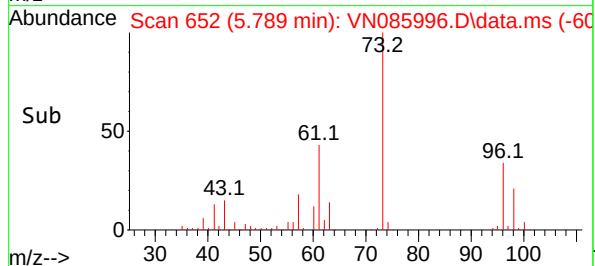
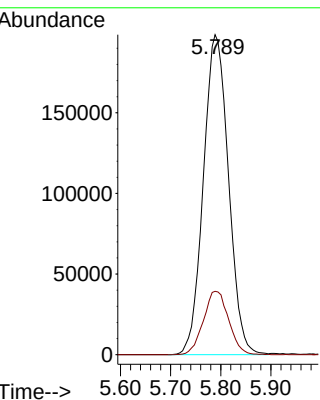
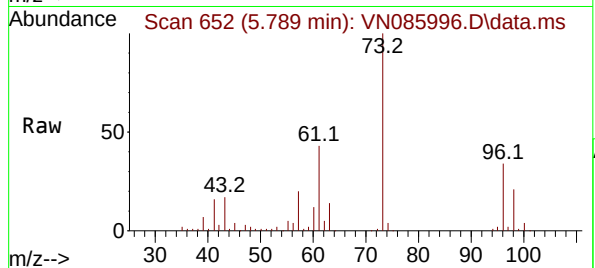
57 19.8 16.1 24.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#20

Methylene Chloride

Concen: 100.177 ug/l

RT: 5.265 min Scan# 563

Delta R.T. -0.006 min

Lab File: VN085996.D

Acq: 18 Mar 2025 11:44

Tgt Ion: 84 Resp: 224327

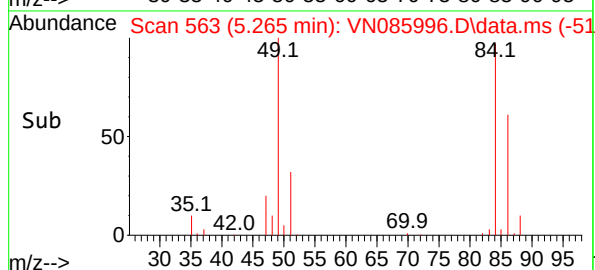
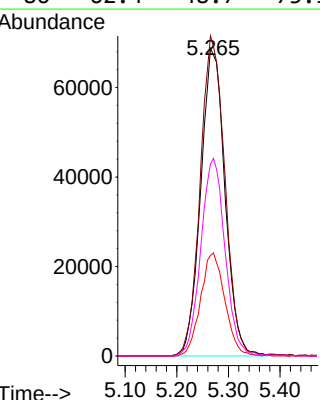
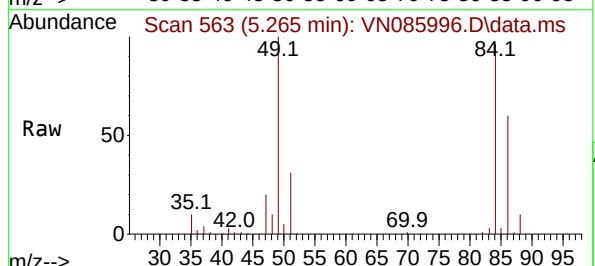
Ion Ratio Lower Upper

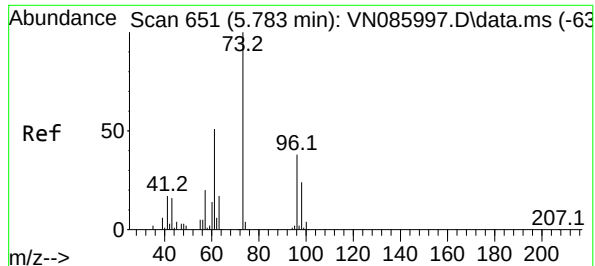
84 100

49 104.1 83.3 124.9

51 32.6 24.8 37.2

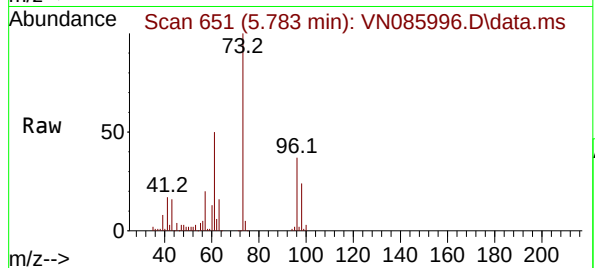
86 62.4 48.7 73.1





#21
trans-1,2-Dichloroethene
Concen: 107.710 ug/l
RT: 5.783 min Scan# 61
Delta R.T. -0.000 min
Lab File: VN085996.D
Acq: 18 Mar 2025 11:44

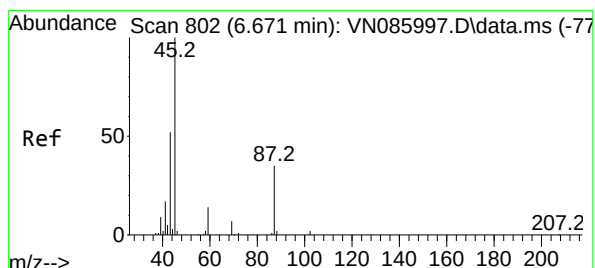
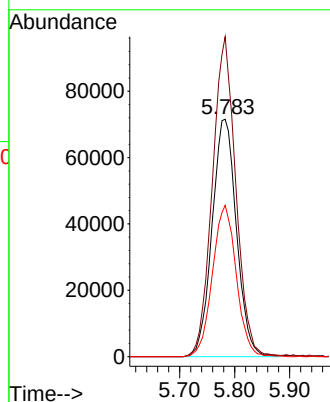
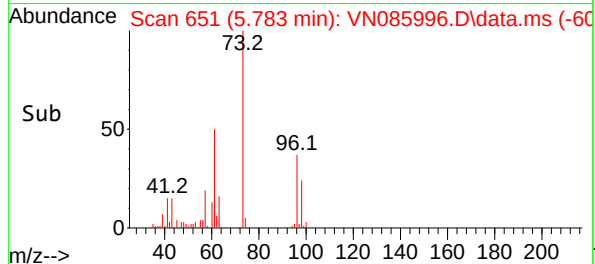
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion: 96 Resp: 22065
Ion Ratio Lower Upper
96 100
61 134.8 106.6 160.0
98 63.8 50.0 75.0

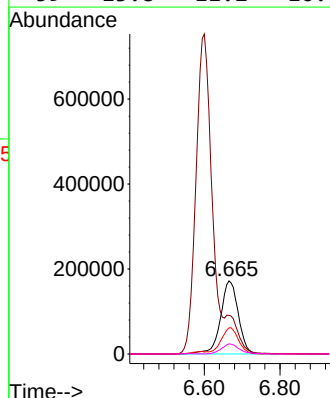
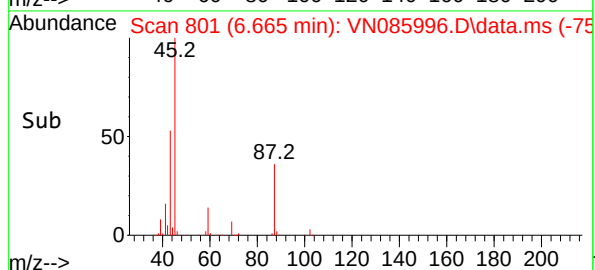
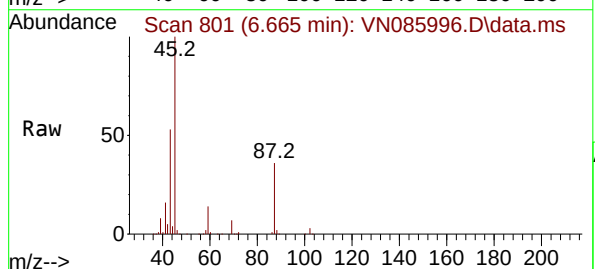
Manual Integrations
APPROVED

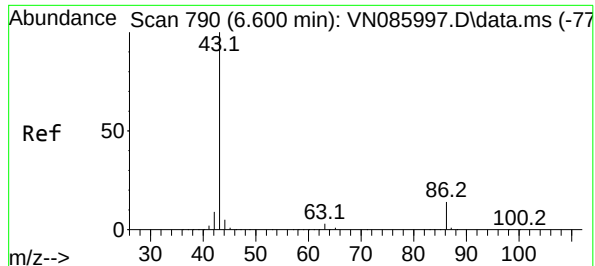
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#22
Diisopropyl ether
Concen: 112.225 ug/l
RT: 6.665 min Scan# 801
Delta R.T. -0.006 min
Lab File: VN085996.D
Acq: 18 Mar 2025 11:44

Tgt Ion: 45 Resp: 559282
Ion Ratio Lower Upper
45 100
43 52.2 41.2 61.8
87 35.5 28.5 42.7
59 13.8 11.2 16.8





#23

Vinyl Acetate

Concen: 579.034 ug/l

RT: 6.600 min Scan# 790

Delta R.T. -0.000 min

Lab File: VN085996.D

Acq: 18 Mar 2025 11:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 43 Resp: 218766

Ion Ratio Lower Upper

43

100

86

13.9

11.2

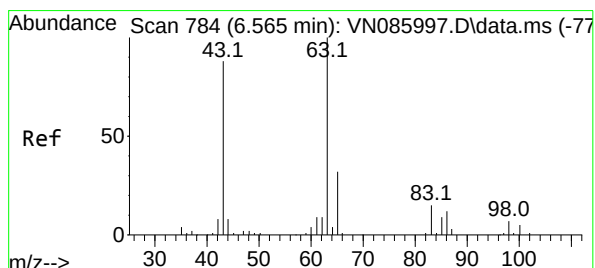
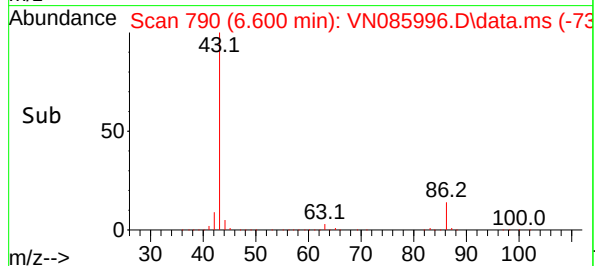
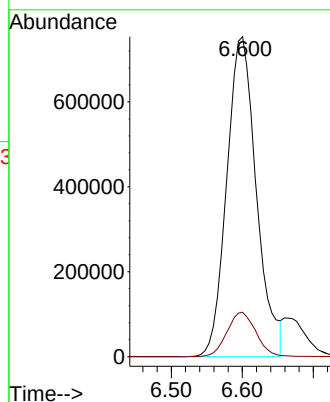
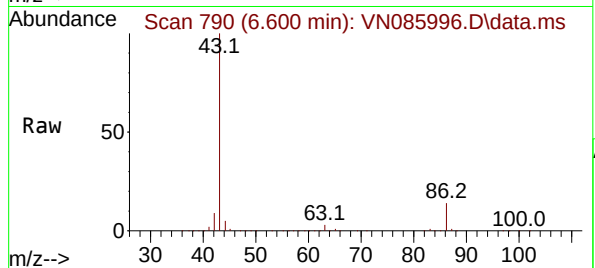
16.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#24

1,1-Dichloroethane

Concen: 102.121 ug/l

RT: 6.559 min Scan# 783

Delta R.T. -0.006 min

Lab File: VN085996.D

Acq: 18 Mar 2025 11:44

Tgt Ion: 63 Resp: 374239

Ion Ratio Lower Upper

63

100

98

7.4

3.6

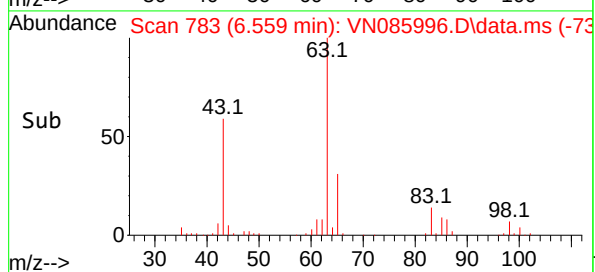
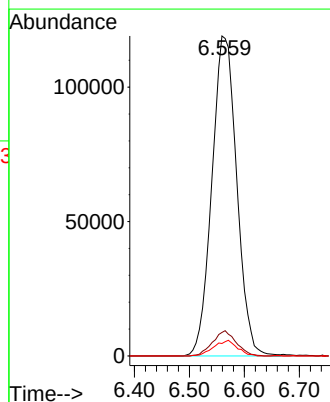
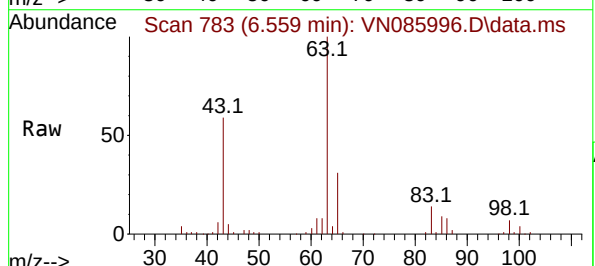
10.9

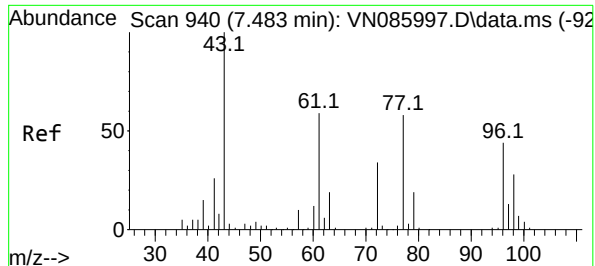
100

3.9

2.5

7.5





#25

2-Butanone

Concen: 548.306 ug/l

RT: 7.477 min Scan# 91

Delta R.T. -0.006 min

Lab File: VN085996.D

Acq: 18 Mar 2025 11:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 43 Resp: 60561

Ion Ratio Lower Upper

43 100

72 33.7

27.4

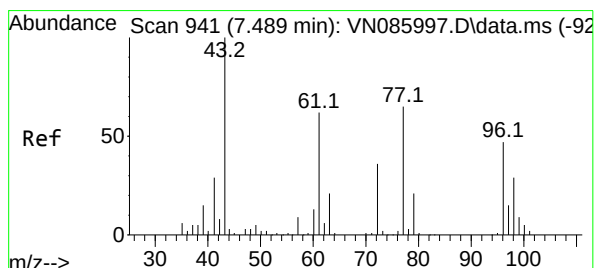
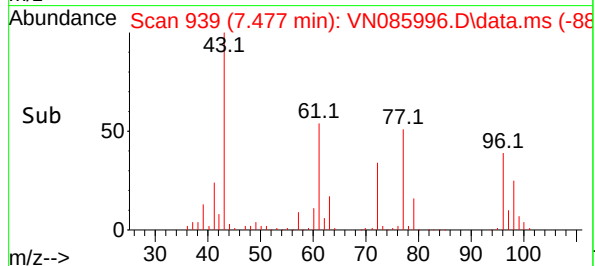
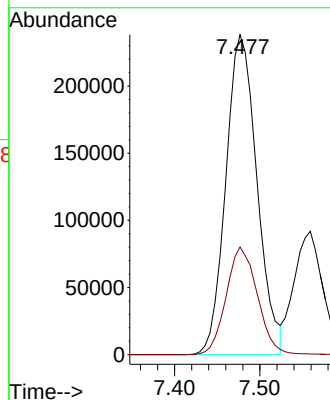
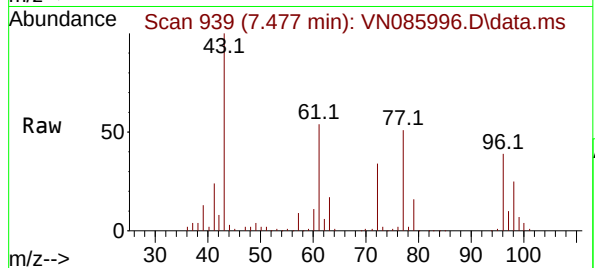
41.0

Manual Integrations

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Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#26

2,2-Dichloropropane

Concen: 107.034 ug/l

RT: 7.483 min Scan# 940

Delta R.T. -0.006 min

Lab File: VN085996.D

Acq: 18 Mar 2025 11:44

Tgt Ion: 77 Resp: 377635

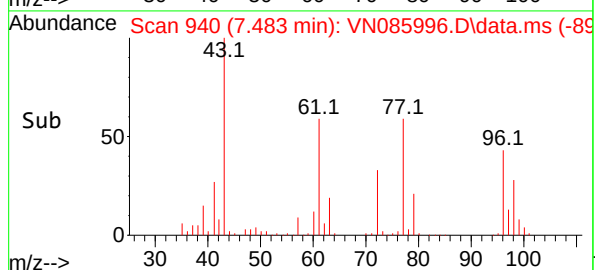
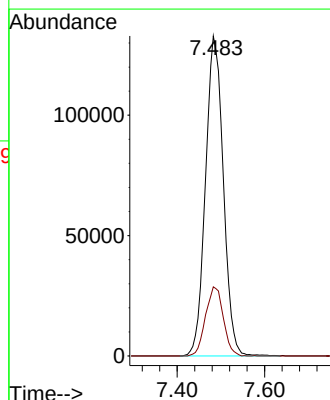
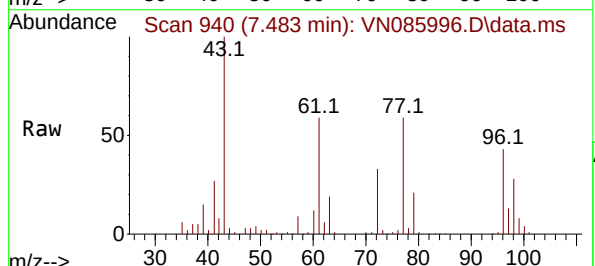
Ion Ratio Lower Upper

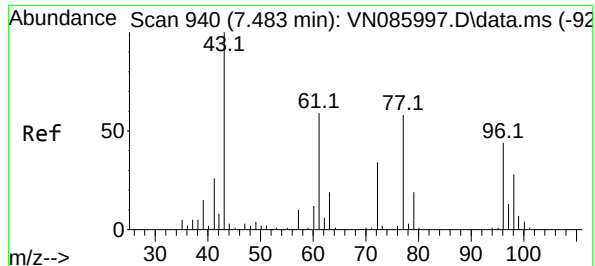
77 100

97 21.5

11.2

33.5





#27

cis-1,2-Dichloroethene

Concen: 108.218 ug/l

RT: 7.483 min Scan# 940

Delta R.T. -0.000 min

Lab File: VN085996.D

Acq: 18 Mar 2025 11:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 96 Resp: 251929

Ion Ratio Lower Upper

96 100

61 138.2 0.0 272.8

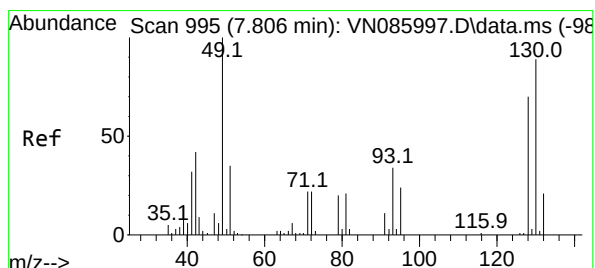
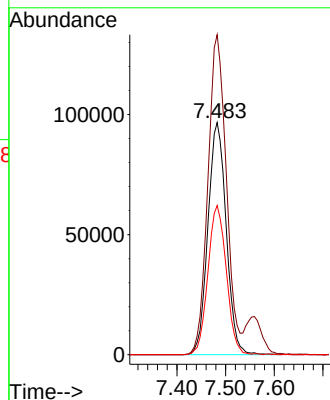
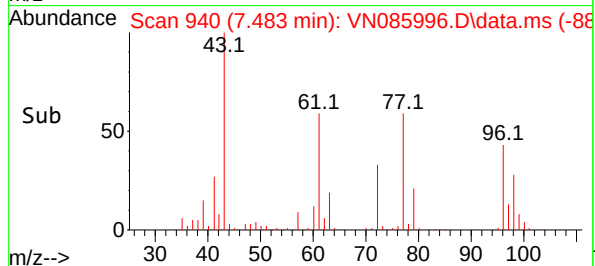
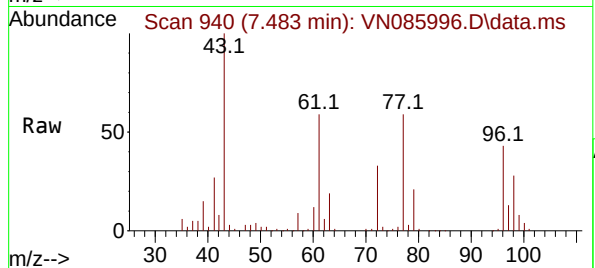
98 64.6 0.0 124.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#28

Bromochloromethane

Concen: 94.874 ug/l

RT: 7.812 min Scan# 996

Delta R.T. 0.006 min

Lab File: VN085996.D

Acq: 18 Mar 2025 11:44

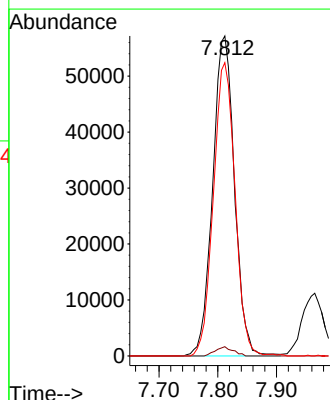
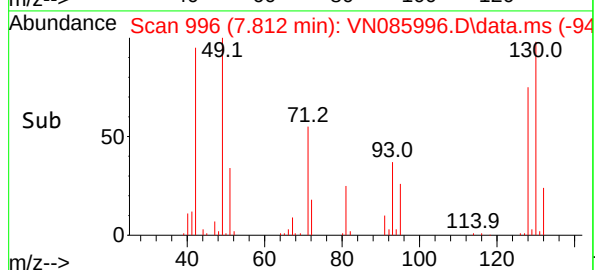
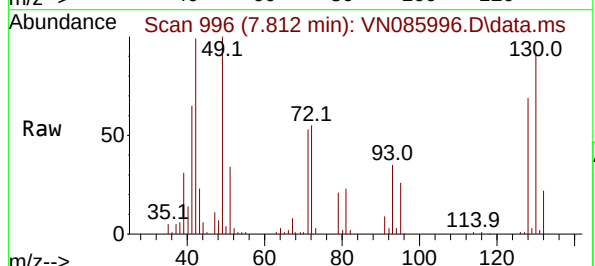
Tgt Ion: 49 Resp: 147305

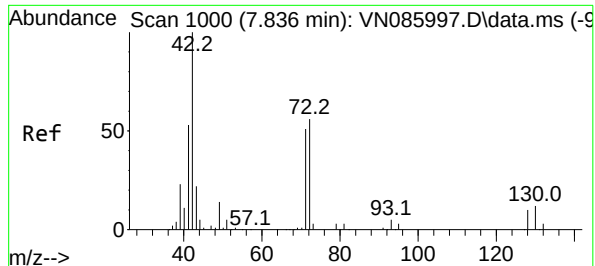
Ion Ratio Lower Upper

49 100

129 2.4 0.0 4.2

130 90.9 74.2 111.4





#29

Tetrahydrofuran

Concen: 546.087 ug/l

RT: 7.830 min Scan# 999

Delta R.T. -0.006 min

Lab File: VN085996.D

Acq: 18 Mar 2025 11:44

Instrument :

MSVOA_N

ClientSampleId :

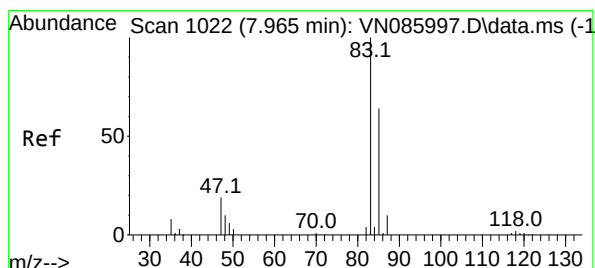
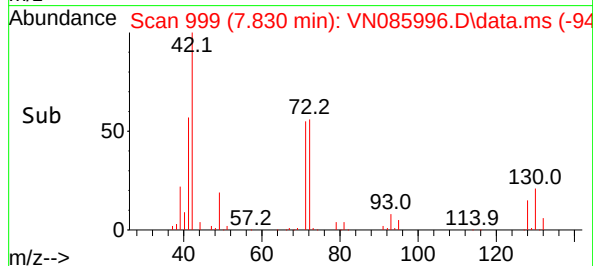
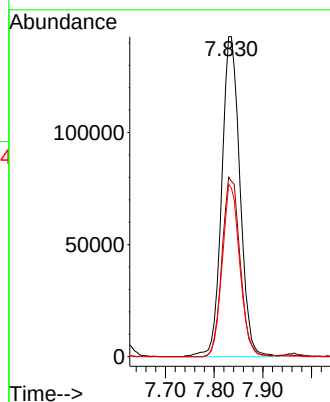
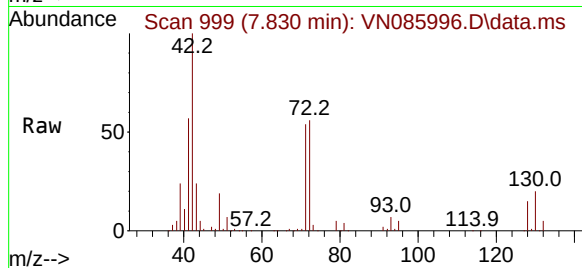
VSTDICC100

Tgt Ion:	42	Resp:	372372
Ion	Ratio	Lower	Upper
42	100		
72	55.6	45.0	67.4
71	51.7	41.9	62.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#30

Chloroform

Concen: 101.106 ug/l

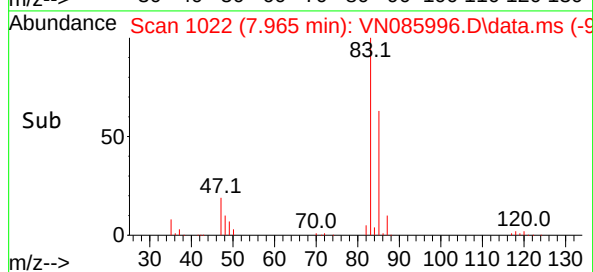
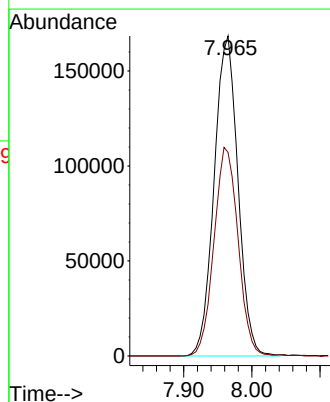
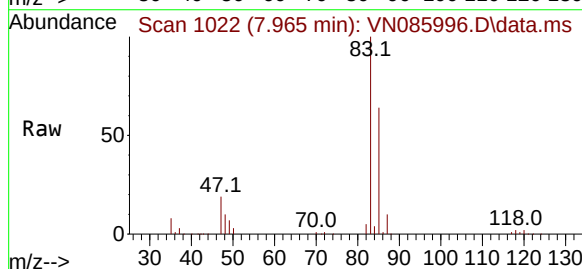
RT: 7.965 min Scan# 1022

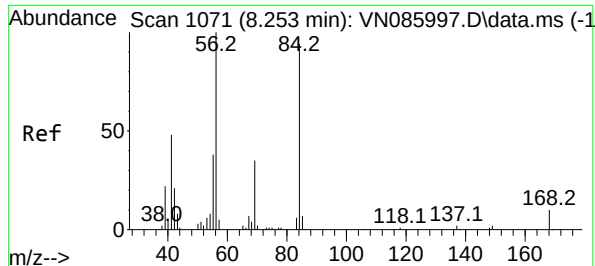
Delta R.T. -0.000 min

Lab File: VN085996.D

Acq: 18 Mar 2025 11:44

Tgt Ion:	83	Resp:	409546
Ion	Ratio	Lower	Upper
83	100		
85	63.6	51.5	77.3





#31

Cyclohexane

Concen: 104.345 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. -0.000 min

Lab File: VN085996.D

Acq: 18 Mar 2025 11:44

Instrument :

MSVOA_N

ClientSampleId :

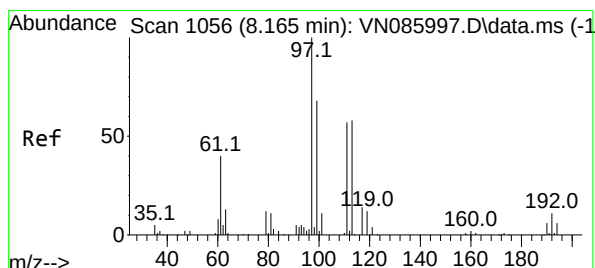
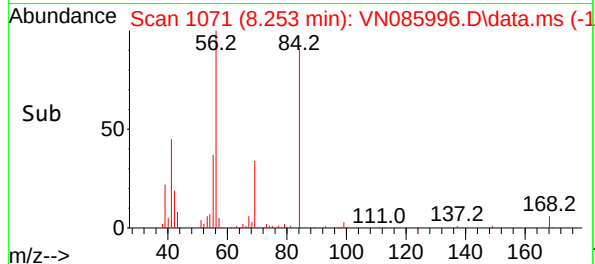
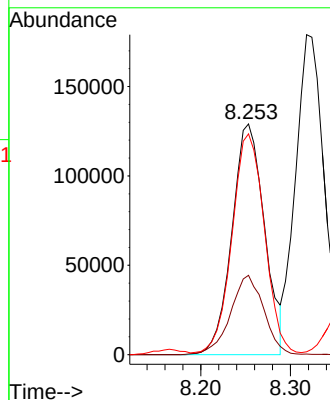
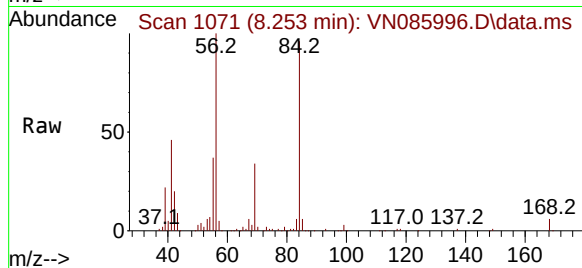
VSTDICC100

Tgt Ion:	56	Resp:	32575
Ion Ratio	Lower	Upper	
56	100		
69	34.4	28.0	42.0
84	94.2	75.0	112.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#32

1,1,1-Trichloroethane

Concen: 104.344 ug/l

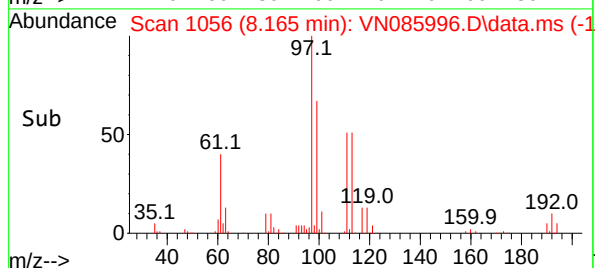
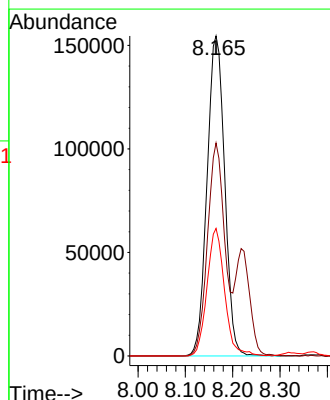
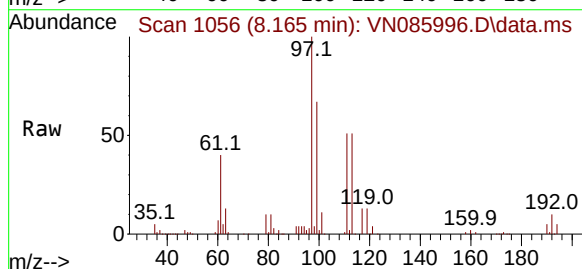
RT: 8.165 min Scan# 1056

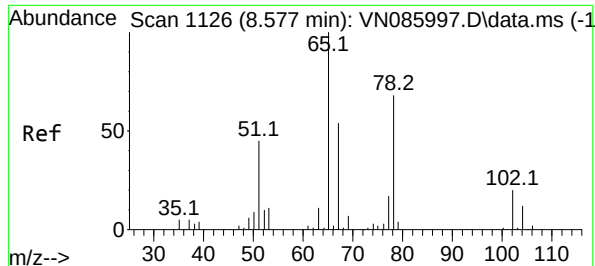
Delta R.T. -0.000 min

Lab File: VN085996.D

Acq: 18 Mar 2025 11:44

Tgt Ion:	97	Resp:	400089
Ion Ratio	Lower	Upper	
97	100		
99	66.2	52.8	79.2
61	39.7	33.6	50.4





#33

1,2-Dichloroethane-d4

Concen: 92.312 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN085996.D

Acq: 18 Mar 2025 11:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 65 Resp: 23129

Ion Ratio Lower Upper

65 100

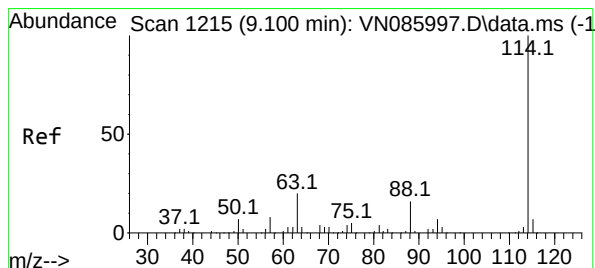
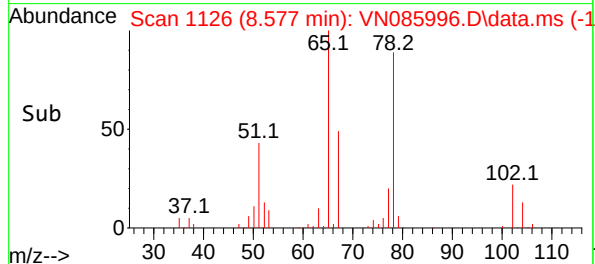
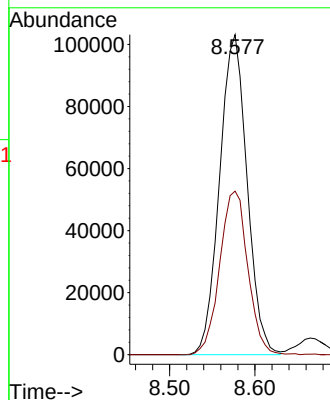
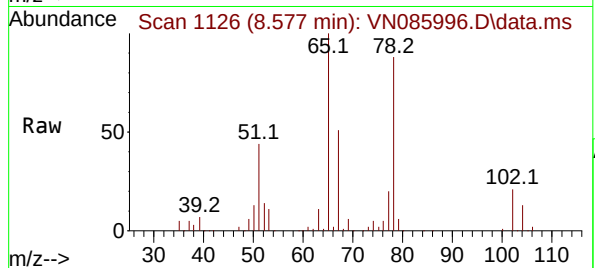
67 52.3 0.0 102.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN085996.D

Acq: 18 Mar 2025 11:44

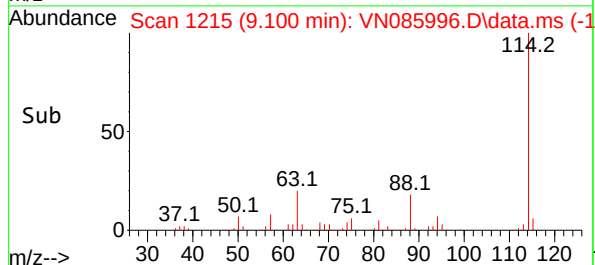
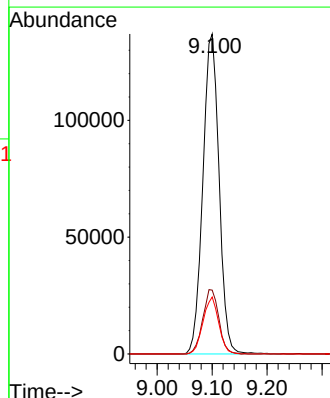
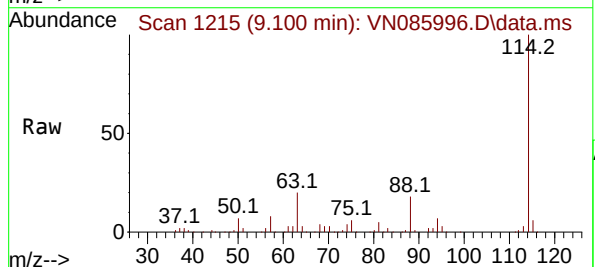
Tgt Ion:114 Resp: 280238

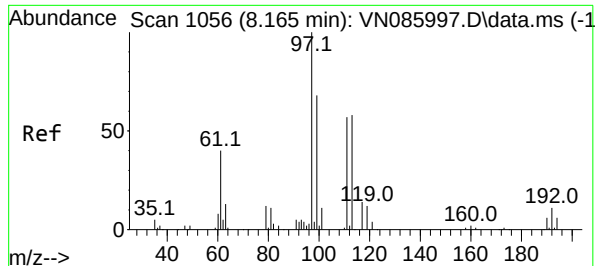
Ion Ratio Lower Upper

114 100

63 19.9 0.0 39.6

88 17.8 0.0 32.6





#35

Dibromofluoromethane

Concen: 95.442 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN085996.D

Acq: 18 Mar 2025 11:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion:113 Resp: 186688

Ion Ratio Lower Upper

113 100

111 103.7 81.8 122.8

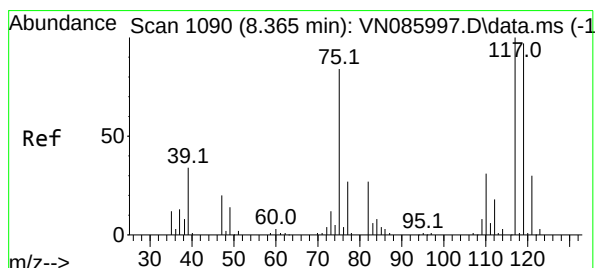
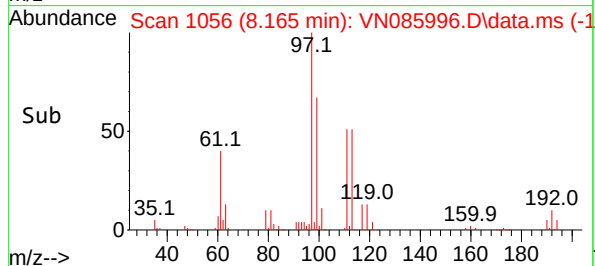
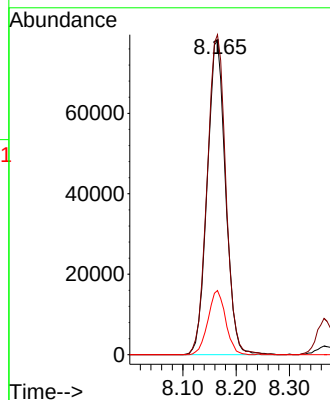
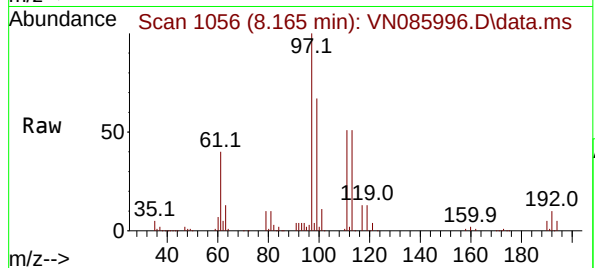
192 19.7 15.9 23.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#36

1,1-Dichloropropene

Concen: 114.993 ug/l

RT: 8.365 min Scan# 1090

Delta R.T. -0.000 min

Lab File: VN085996.D

Acq: 18 Mar 2025 11:44

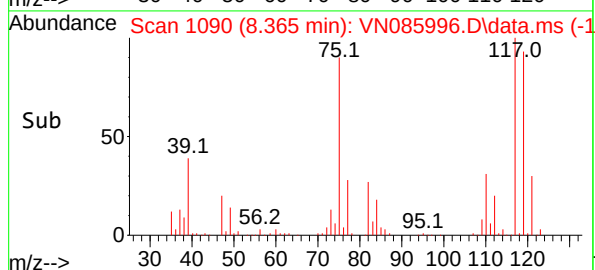
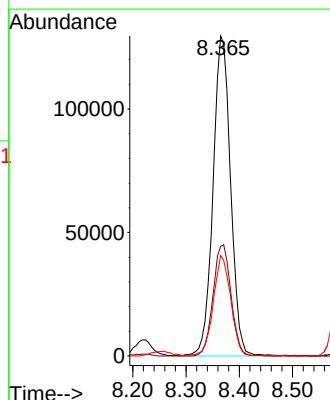
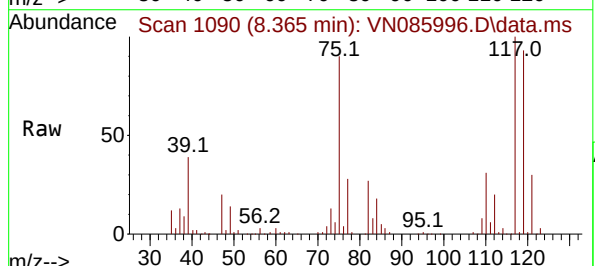
Tgt Ion: 75 Resp: 296177

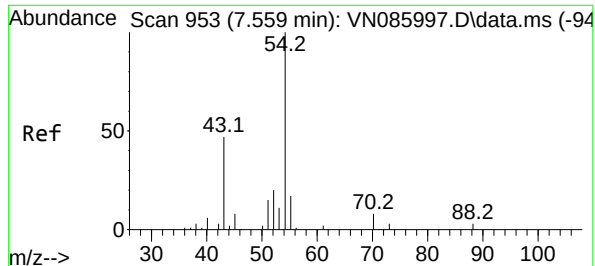
Ion Ratio Lower Upper

75 100

110 35.6 17.8 53.3

77 30.9 25.0 37.4





#37

Ethyl Acetate

Concen: 103.099 ug/l

RT: 7.559 min Scan# 91

Delta R.T. -0.000 min

Lab File: VN085996.D

Acq: 18 Mar 2025 11:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 43 Resp: 22402

Ion Ratio Lower Upper

43 100

61 15.5 13.0 19.4

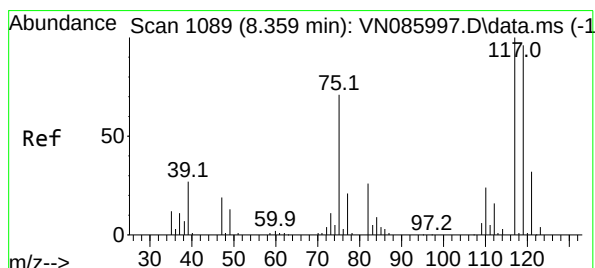
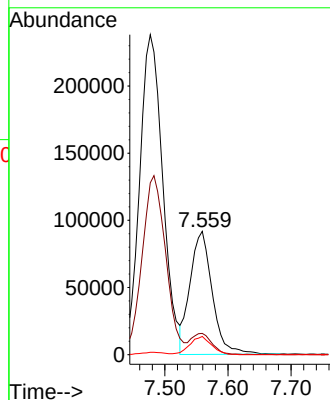
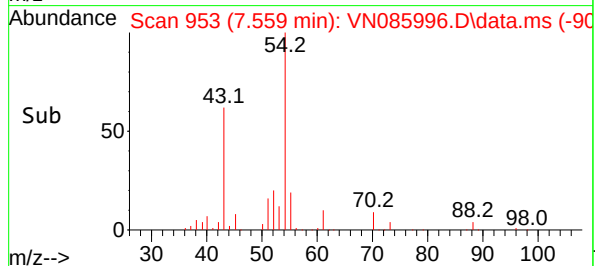
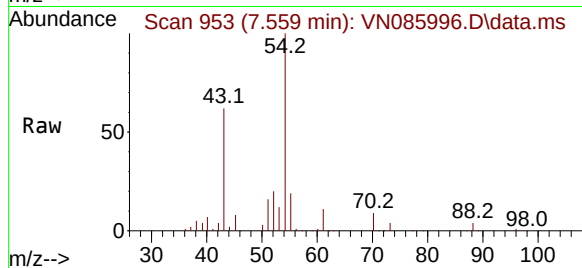
70 14.5 11.0 16.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#38

Carbon Tetrachloride

Concen: 111.395 ug/l

RT: 8.359 min Scan# 1089

Delta R.T. -0.000 min

Lab File: VN085996.D

Acq: 18 Mar 2025 11:44

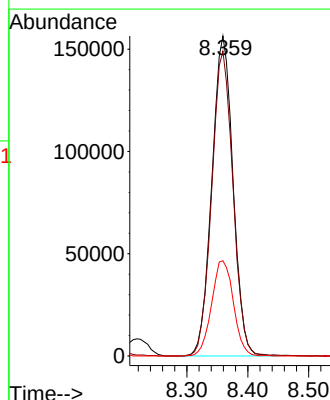
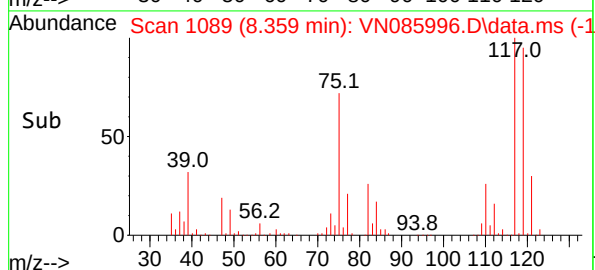
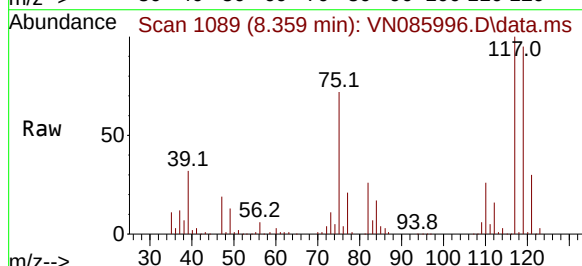
Tgt Ion:117 Resp: 377239

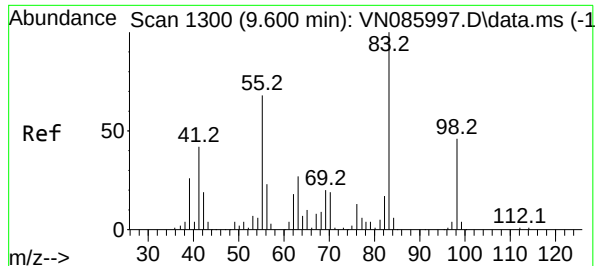
Ion Ratio Lower Upper

117 100

119 95.3 77.0 115.4

121 29.8 25.6 38.4





#39

Methylcyclohexane

Concen: 126.957 ug/l

RT: 9.600 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN085996.D

Acq: 18 Mar 2025 11:44

Instrument :

MSVOA_N

ClientSampleId :

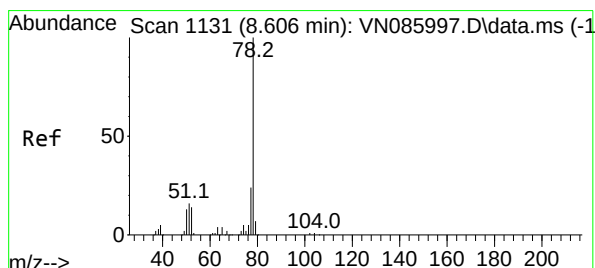
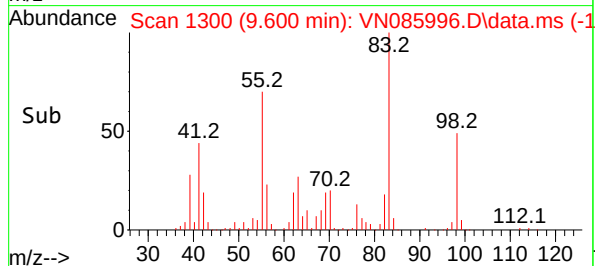
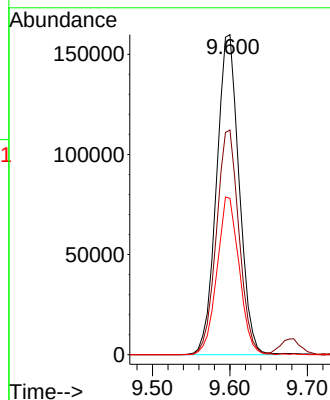
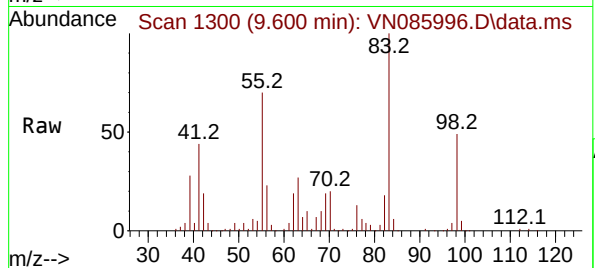
VSTDICC100

Tgt Ion:	83	Resp:	324420
Ion	Ratio	Lower	Upper
83	100		
55	70.2	54.2	81.2
98	48.9	37.1	55.7

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#40

Benzene

Concen: 111.613 ug/l

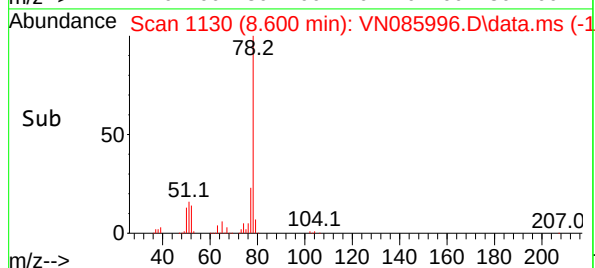
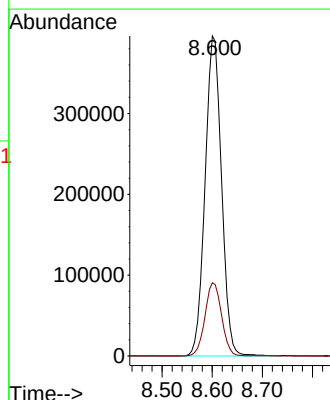
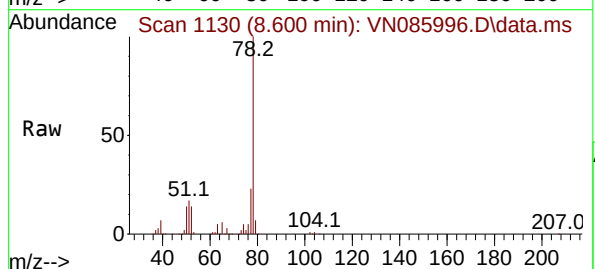
RT: 8.600 min Scan# 1130

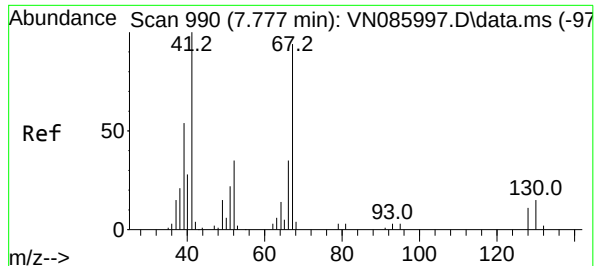
Delta R.T. -0.006 min

Lab File: VN085996.D

Acq: 18 Mar 2025 11:44

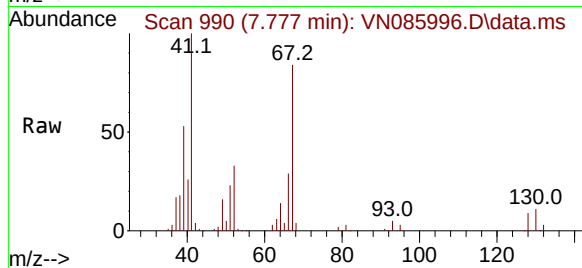
Tgt Ion:	78	Resp:	902443
Ion	Ratio	Lower	Upper
78	100		
77	22.9	18.9	28.3





#41
Methacrylonitrile
Concen: 118.971 ug/l
RT: 7.777 min Scan# 990
Delta R.T. -0.000 min
Lab File: VN085996.D
Acq: 18 Mar 2025 11:44

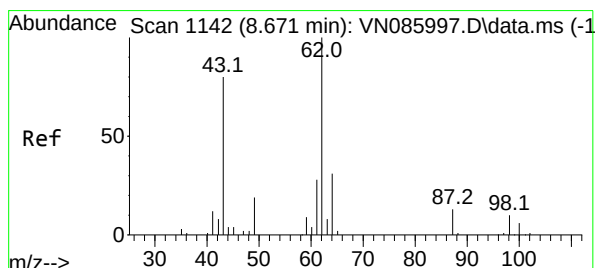
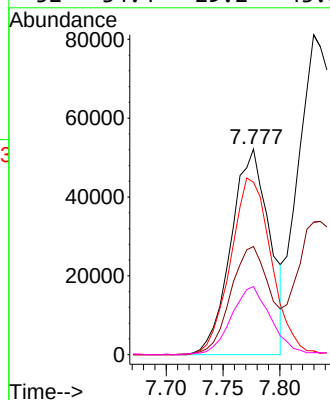
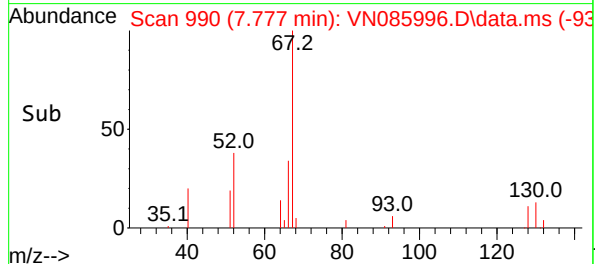
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion: 41 Resp: 123440
Ion Ratio Lower Upper
41 100
39 53.6 46.2 69.2
67 90.8 75.9 113.9
52 34.4 29.2 43.8

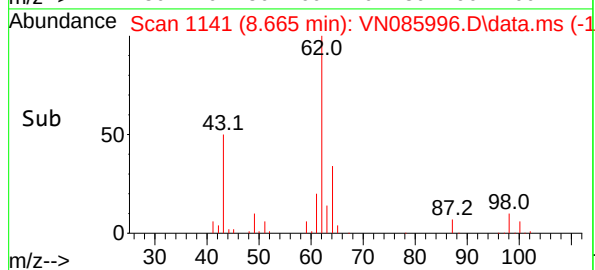
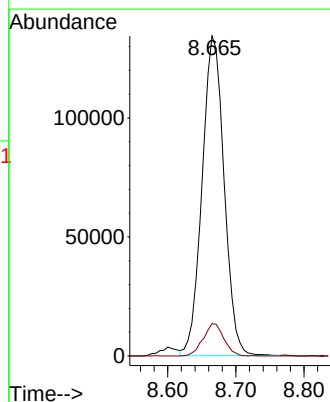
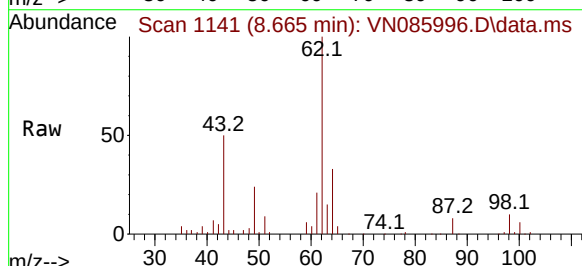
Manual Integrations
APPROVED

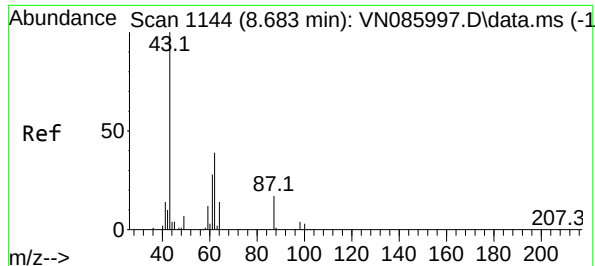
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#42
1,2-Dichloroethane
Concen: 107.080 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. -0.006 min
Lab File: VN085996.D
Acq: 18 Mar 2025 11:44

Tgt Ion: 62 Resp: 301678
Ion Ratio Lower Upper
62 100
98 9.5 0.0 18.6





#43

Isopropyl Acetate

Concen: 84.427 ug/l

RT: 8.683 min Scan# 1144

Delta R.T. -0.000 min

Lab File: VN085996.D

Acq: 18 Mar 2025 11:44

Instrument :

MSVOA_N

ClientSampleId :

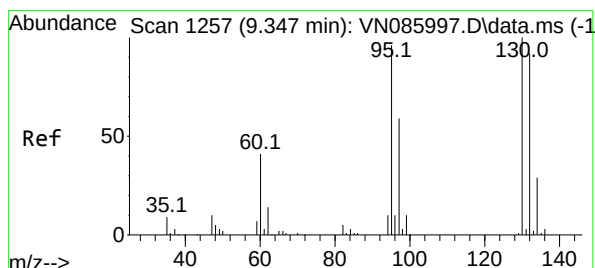
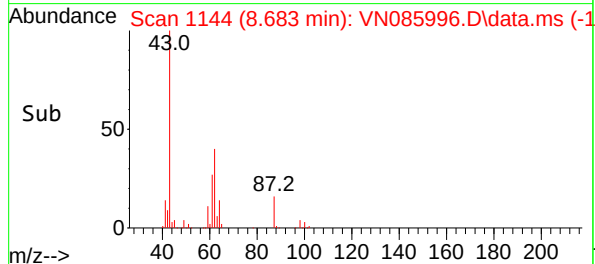
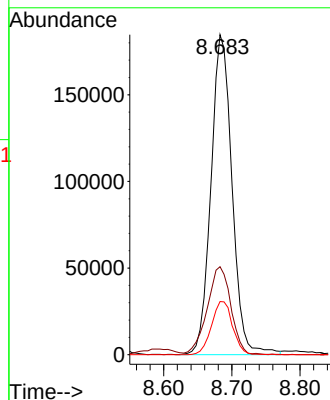
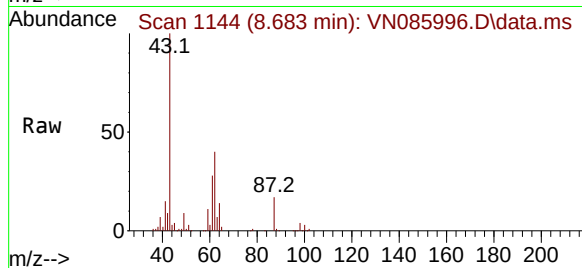
VSTDICC100

Tgt Ion:	43	Resp:	39836
Ion Ratio	Lower	Upper	
43	100		
61	30.6	25.0	37.6
87	16.6	13.0	19.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#44

Trichloroethene

Concen: 105.460 ug/l

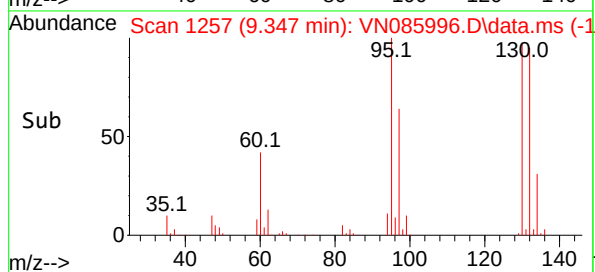
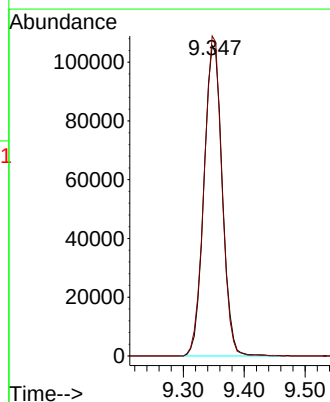
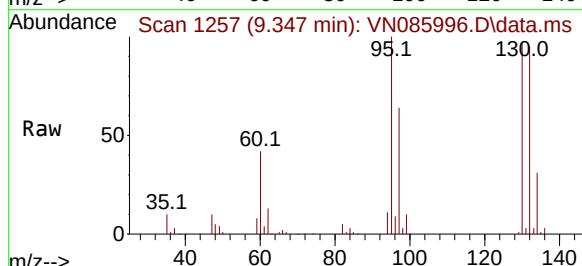
RT: 9.347 min Scan# 1257

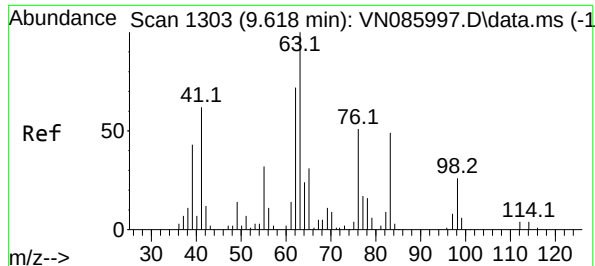
Delta R.T. -0.000 min

Lab File: VN085996.D

Acq: 18 Mar 2025 11:44

Tgt Ion:	130	Resp:	220997
Ion Ratio	Lower	Upper	
130	100		
95	103.1	0.0	191.6





#45

1,2-Dichloropropane

Concen: 111.644 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. -0.000 min

Lab File: VN085996.D

Acq: 18 Mar 2025 11:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 63 Resp: 20531

Ion Ratio Lower Upper

63 100

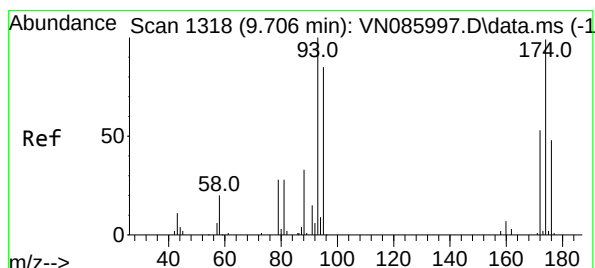
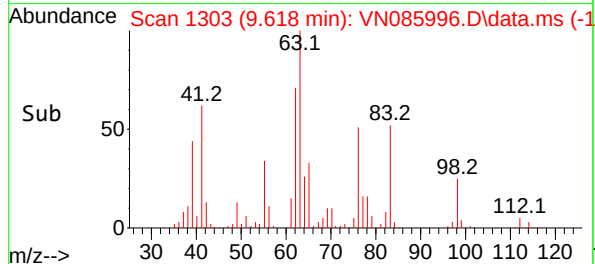
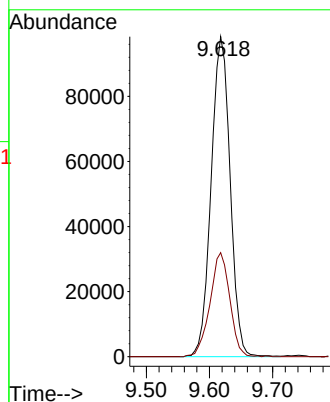
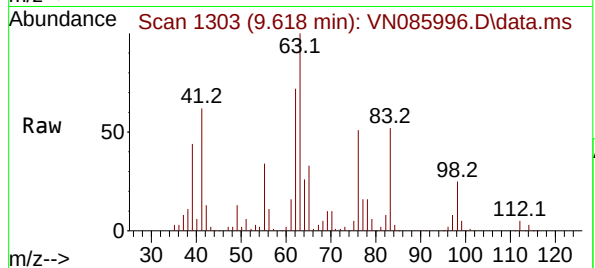
65 32.5 24.7 37.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#46

Dibromomethane

Concen: 107.992 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. -0.000 min

Lab File: VN085996.D

Acq: 18 Mar 2025 11:44

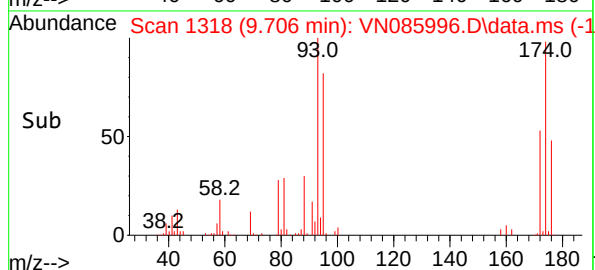
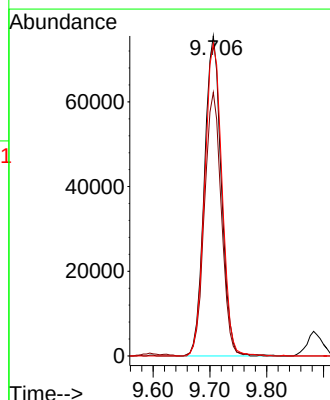
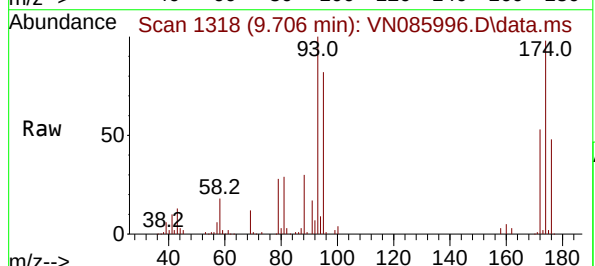
Tgt Ion: 93 Resp: 156183

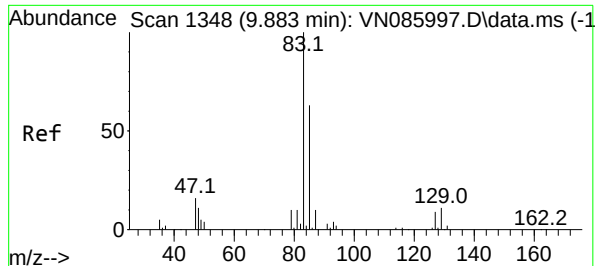
Ion Ratio Lower Upper

93 100

95 82.1 66.2 99.2

174 99.9 80.1 120.1





#47

Bromodichloromethane

Concen: 111.244 ug/l

RT: 9.882 min Scan# 1348

Delta R.T. -0.000 min

Lab File: VN085996.D

Acq: 18 Mar 2025 11:44

Instrument :

MSVOA_N

ClientSampleId :

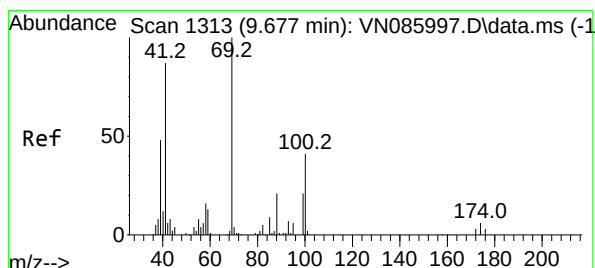
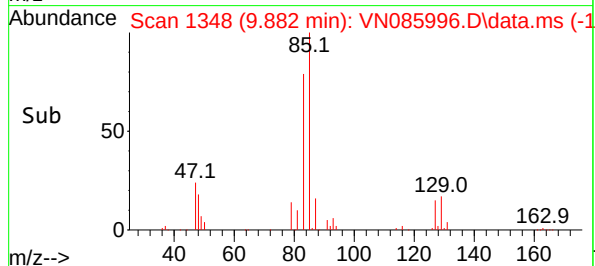
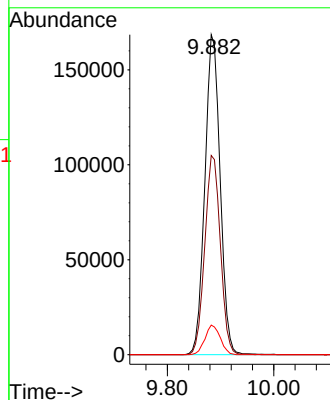
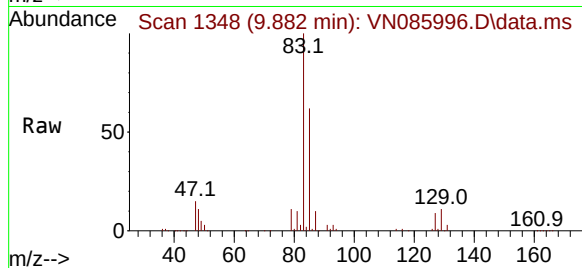
VSTDICC100

Tgt Ion:	83	Resp:	33624
Ion	Ratio	Lower	Upper
83	100		
85	62.3	50.2	75.2
127	9.2	7.1	10.7

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#48

Methyl methacrylate

Concen: 118.314 ug/l

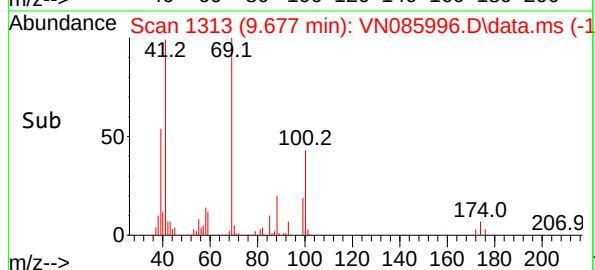
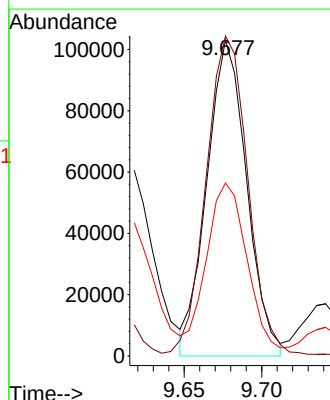
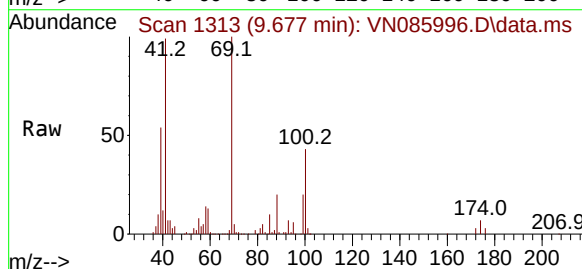
RT: 9.677 min Scan# 1313

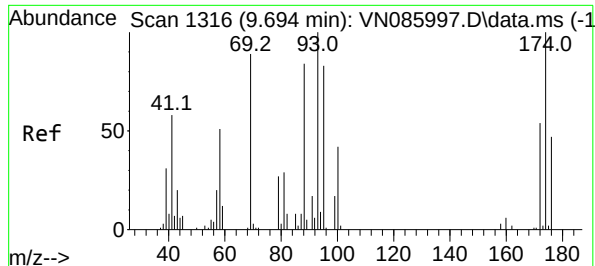
Delta R.T. -0.000 min

Lab File: VN085996.D

Acq: 18 Mar 2025 11:44

Tgt Ion:	41	Resp:	183832
Ion	Ratio	Lower	Upper
41	100		
69	107.2	83.1	124.7
39	56.7	45.6	68.4





#49

1,4-Dioxane

Concen: 2276.865 ug/l

RT: 9.688 min Scan# 1315

Delta R.T. -0.006 min

Lab File: VN085996.D

Acq: 18 Mar 2025 11:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 88 Resp: 83630

Ion Ratio Lower Upper

88 100

43 22.7 21.7 32.5

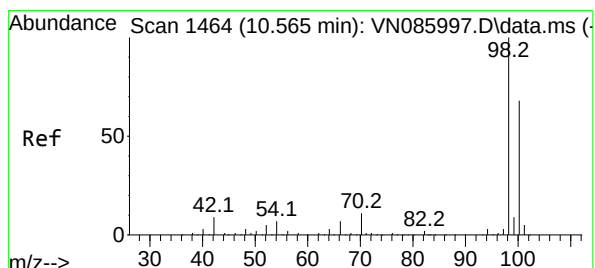
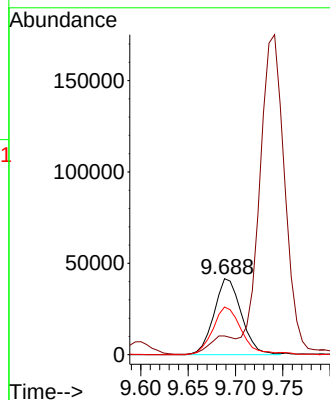
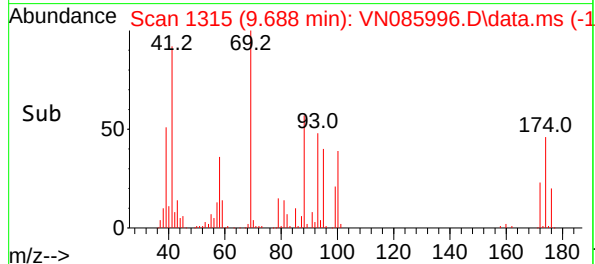
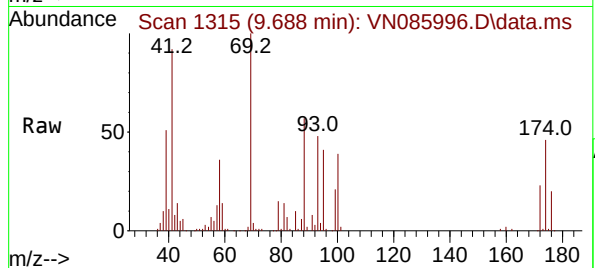
58 66.8 50.4 75.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#50

Toluene-d8

Concen: 103.341 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN085996.D

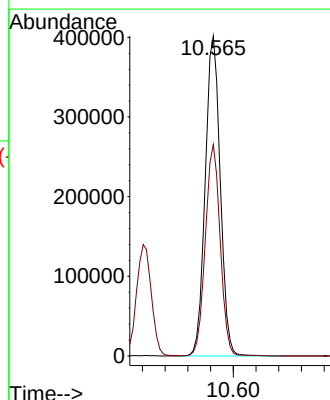
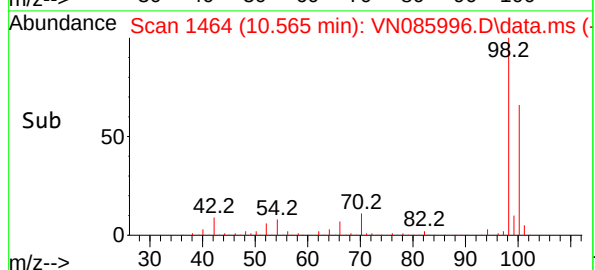
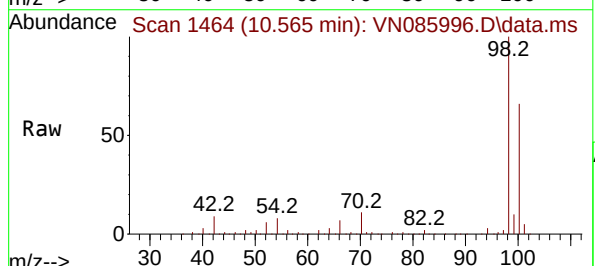
Acq: 18 Mar 2025 11:44

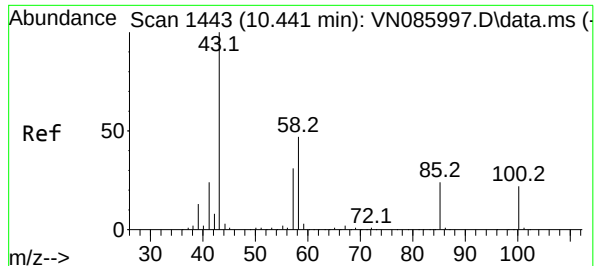
Tgt Ion: 98 Resp: 733621

Ion Ratio Lower Upper

98 100

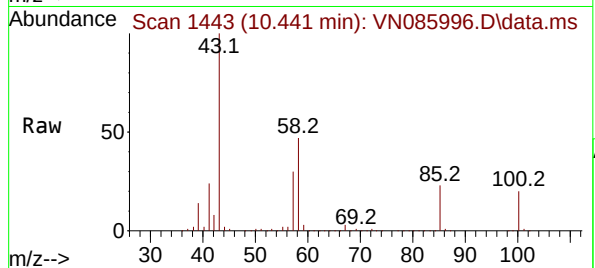
100 65.6 53.1 79.7





#51
4-Methyl-2-Pentanone
Concen: 585.839 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN085996.D
Acq: 18 Mar 2025 11:44

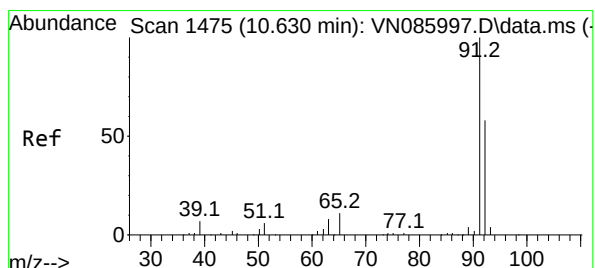
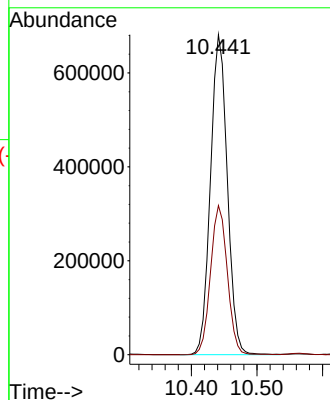
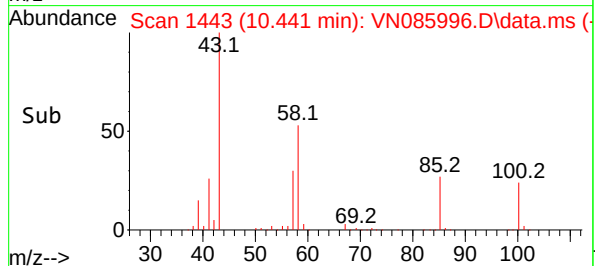
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion: 43 Resp: 1216534
Ion Ratio Lower Upper
43 100
58 46.5 37.4 56.0

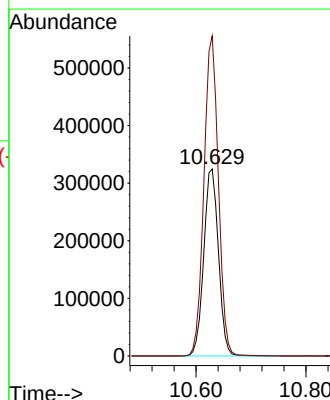
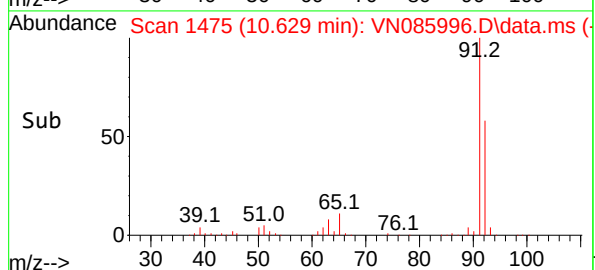
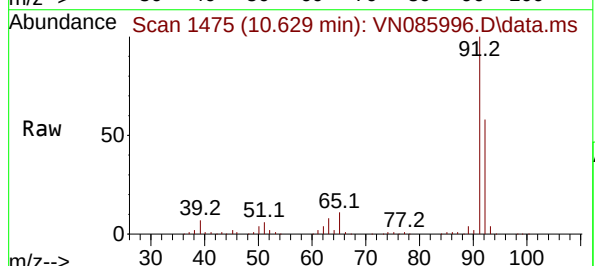
Manual Integrations
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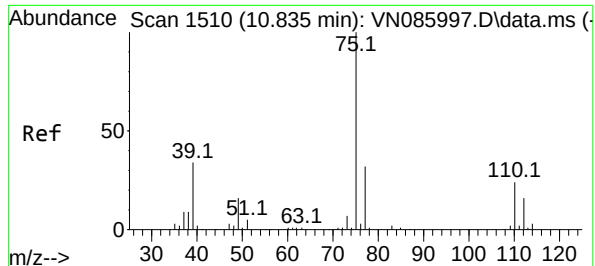
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#52
Toluene
Concen: 121.286 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN085996.D
Acq: 18 Mar 2025 11:44

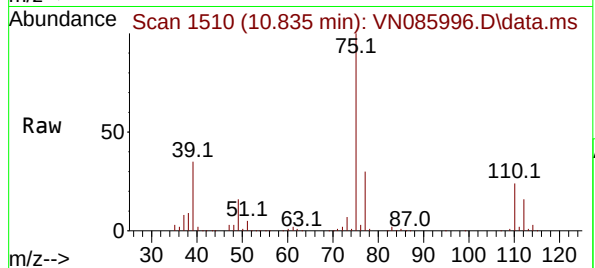
Tgt Ion: 92 Resp: 601872
Ion Ratio Lower Upper
92 100
91 168.4 136.2 204.4





#53
t-1,3-Dichloropropene
Concen: 123.365 ug/l
RT: 10.835 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN085996.D
Acq: 18 Mar 2025 11:44

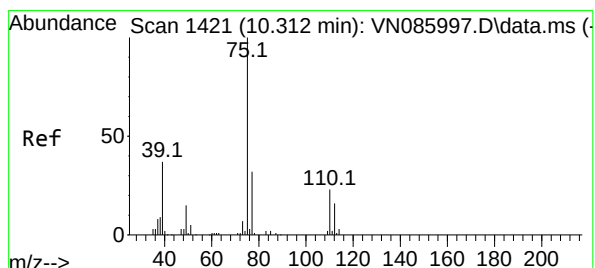
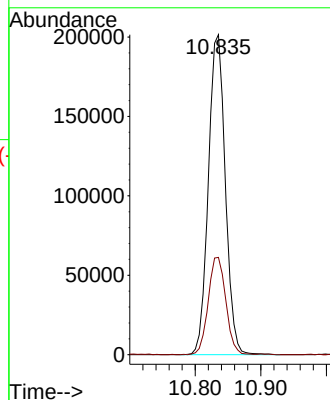
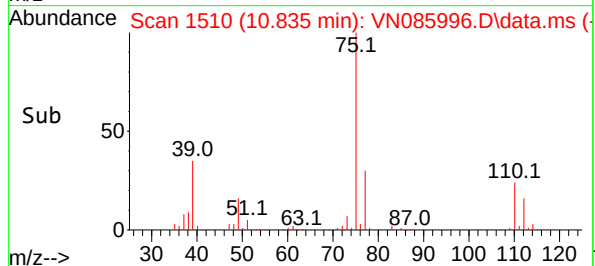
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



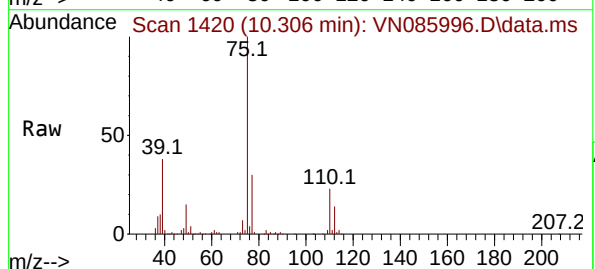
Tgt Ion: 75 Resp: 362129
Ion Ratio Lower Upper
75 100
77 30.4 25.3 37.9

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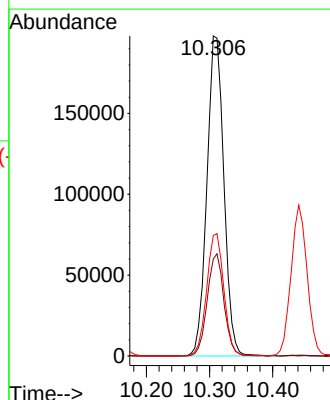
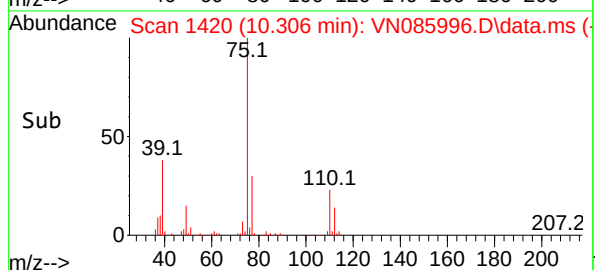
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025

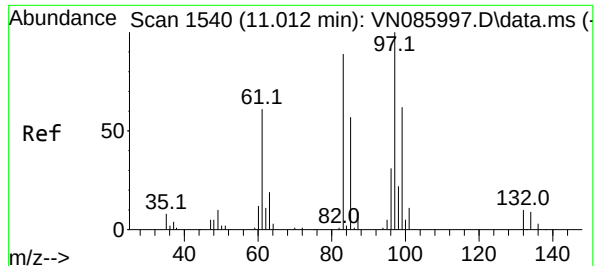


#54
cis-1,3-Dichloropropene
Concen: 119.304 ug/l
RT: 10.306 min Scan# 1420
Delta R.T. -0.006 min
Lab File: VN085996.D
Acq: 18 Mar 2025 11:44



Tgt Ion: 75 Resp: 369494
Ion Ratio Lower Upper
75 100
77 30.3 25.3 37.9
39 37.7 29.6 44.4





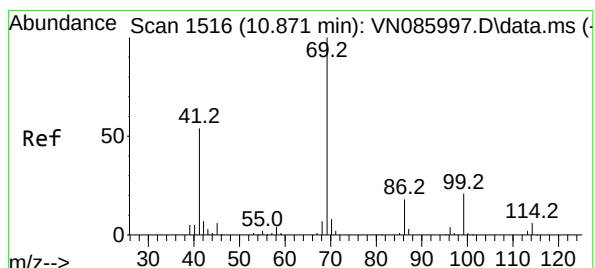
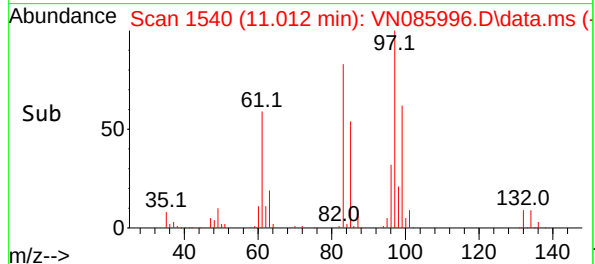
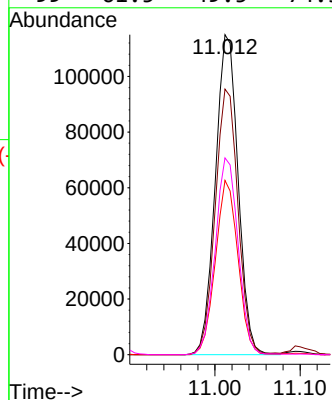
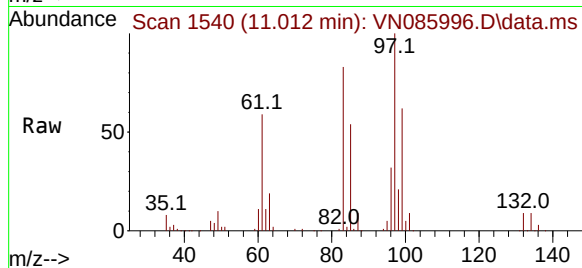
#55
1,1,2-Trichloroethane
Concen: 112.938 ug/l
RT: 11.012 min Scan# 1540
Delta R.T. -0.000 min
Lab File: VN085996.D
Acq: 18 Mar 2025 11:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 97 Resp: 213909
Ion Ratio Lower Upper
97 100
83 83.0 71.2 106.8
85 54.5 45.4 68.0
99 61.5 49.5 74.3

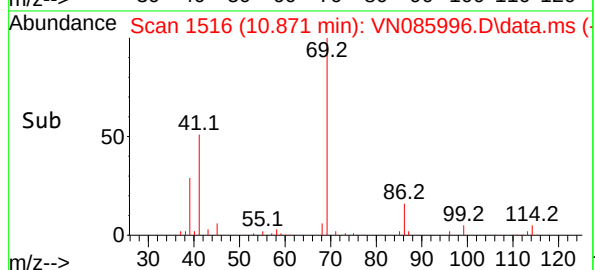
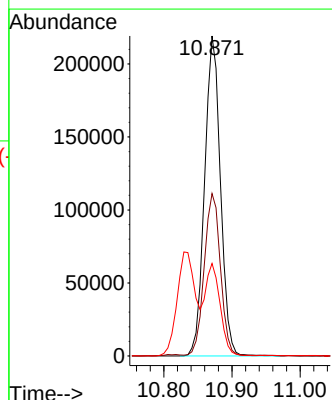
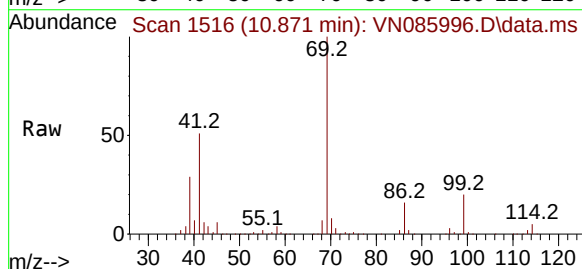
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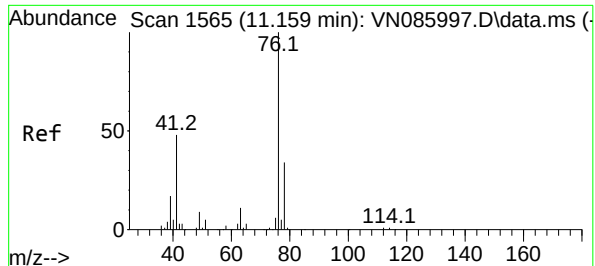
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#56
Ethyl methacrylate
Concen: 100.009 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VN085996.D
Acq: 18 Mar 2025 11:44

Tgt Ion: 69 Resp: 354676
Ion Ratio Lower Upper
69 100
41 51.4 41.6 62.4
39 27.3 21.8 32.8





#57

1,3-Dichloropropane

Concen: 114.512 ug/l

RT: 11.159 min Scan# 1565

Delta R.T. -0.000 min

Lab File: VN085996.D

Acq: 18 Mar 2025 11:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 76 Resp: 368384

Ion Ratio Lower Upper

76 100

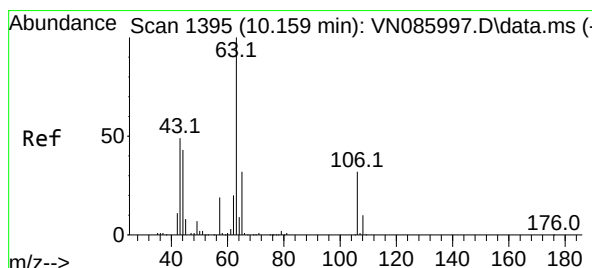
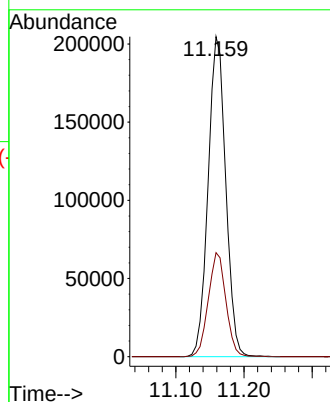
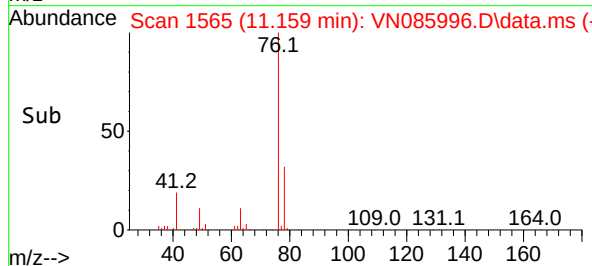
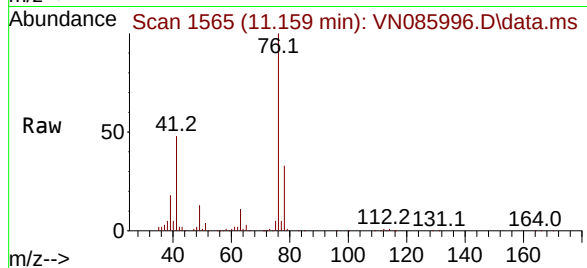
78 32.4 25.8 38.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#58

2-Chloroethyl Vinyl ether

Concen: 498.510 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. -0.000 min

Lab File: VN085996.D

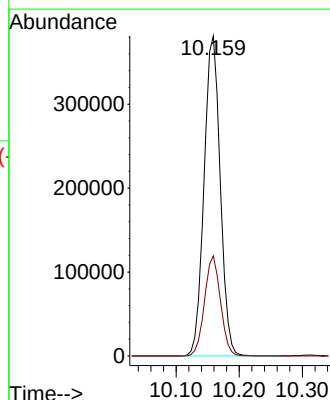
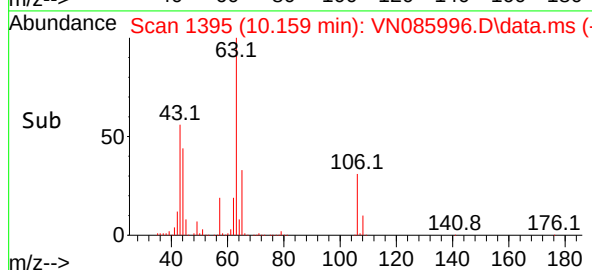
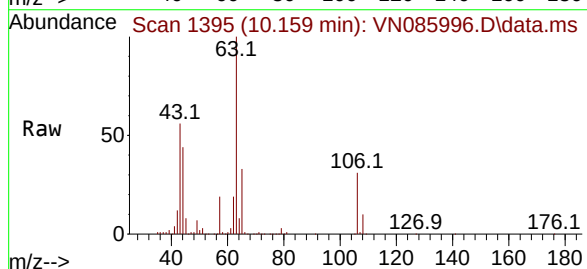
Acq: 18 Mar 2025 11:44

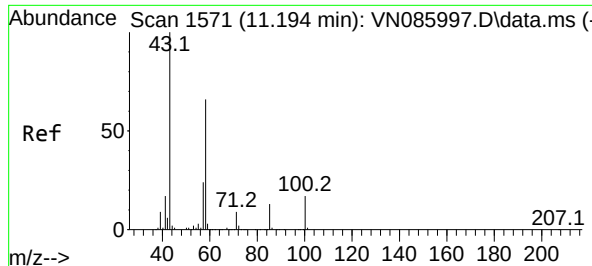
Tgt Ion: 63 Resp: 678829

Ion Ratio Lower Upper

63 100

106 30.8 25.0 37.6





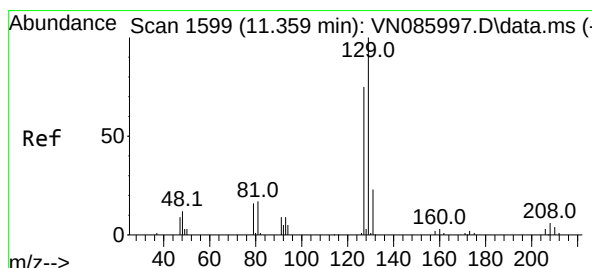
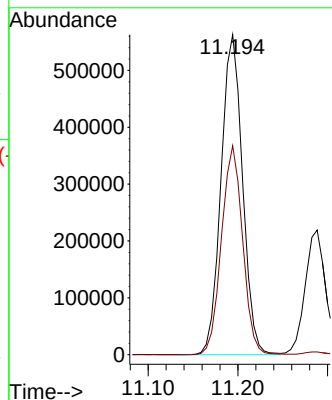
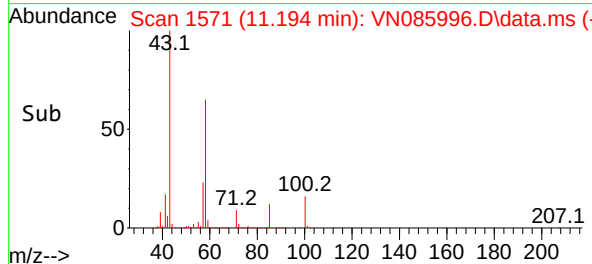
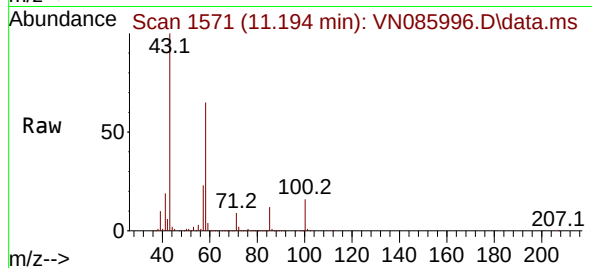
#59
2-Hexanone
Concen: 618.290 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. -0.000 min
Lab File: VN085996.D
Acq: 18 Mar 2025 11:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 935328
Ion Ratio Lower Upper
43 100
58 64.2 32.4 97.2

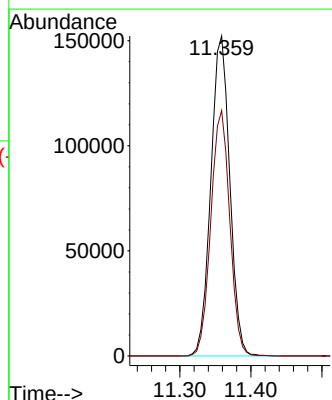
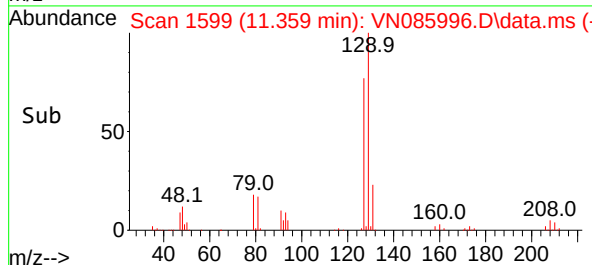
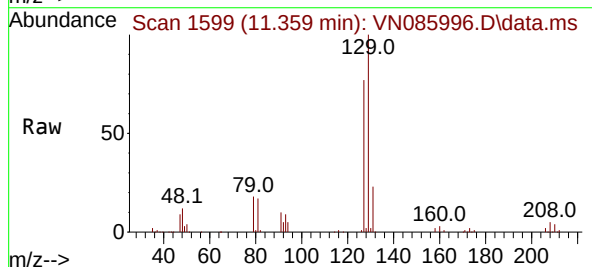
Manual Integrations
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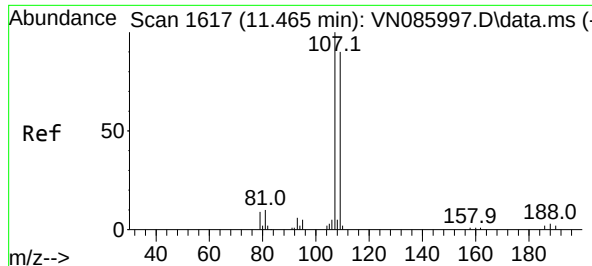
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#60
Dibromochloromethane
Concen: 115.239 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VN085996.D
Acq: 18 Mar 2025 11:44

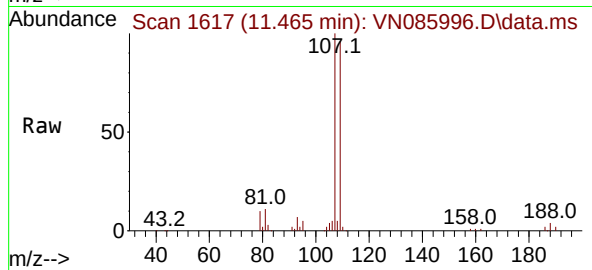
Tgt Ion:129 Resp: 281651
Ion Ratio Lower Upper
129 100
127 76.5 37.8 113.4





#61
1,2-Dibromoethane
Concen: 115.301 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VN085996.D
Acq: 18 Mar 2025 11:44

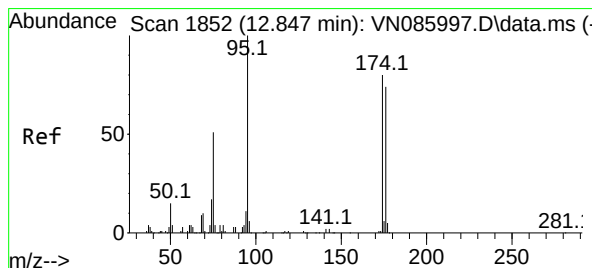
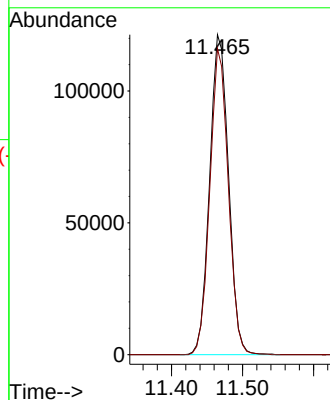
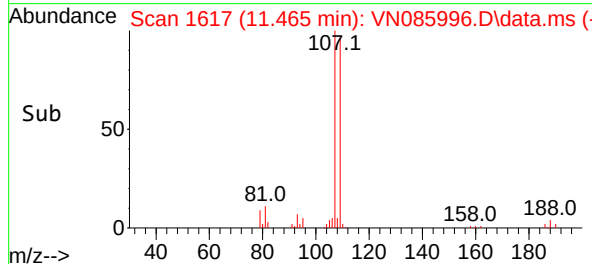
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion:107 Resp: 22419
Ion Ratio Lower Upper
107 100
109 93.5 73.3 109.9

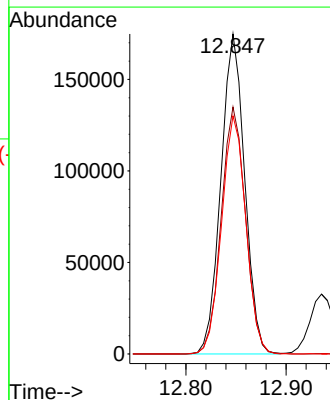
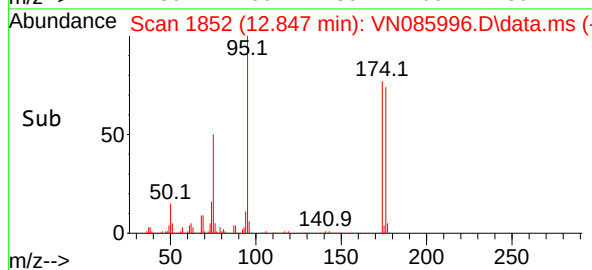
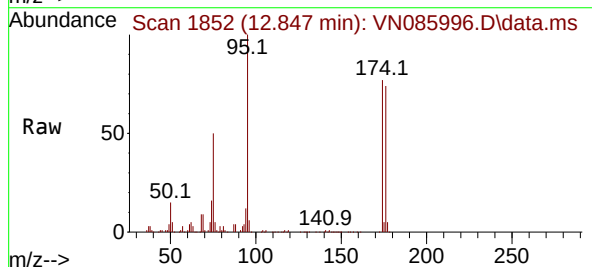
Manual Integrations
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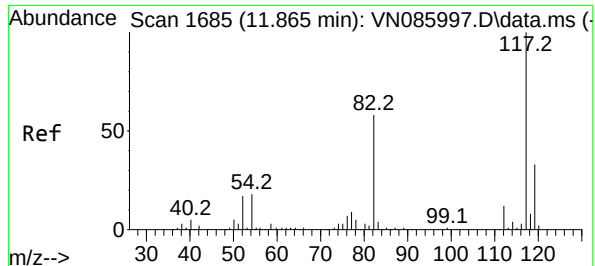
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#62
4-Bromofluorobenzene
Concen: 113.805 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085996.D
Acq: 18 Mar 2025 11:44

Tgt Ion: 95 Resp: 288124
Ion Ratio Lower Upper
95 100
174 78.5 0.0 156.8
176 75.9 0.0 152.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN085996.D

Acq: 18 Mar 2025 11:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion:117 Resp: 267544

Ion Ratio Lower Upper

117 100

82 58.1 46.7 70.1

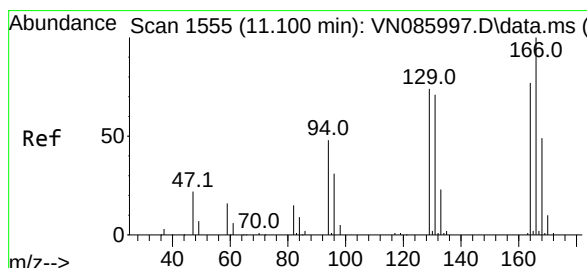
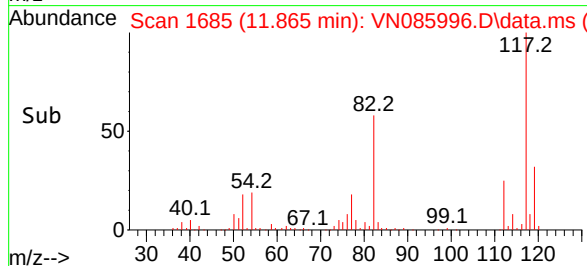
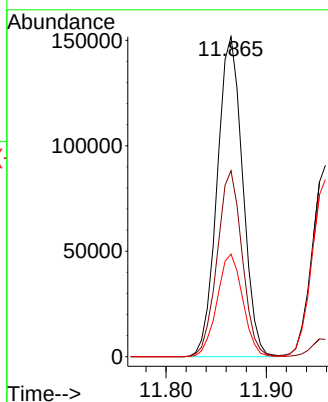
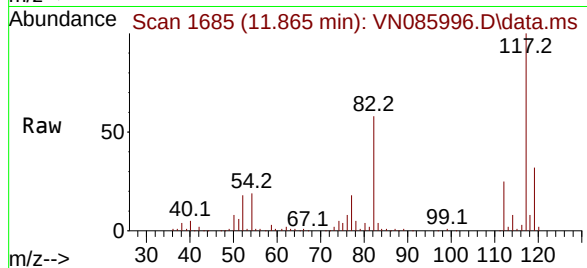
119 32.1 26.5 39.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#64

Tetrachloroethene

Concen: 102.122 ug/l

RT: 11.100 min Scan# 1555

Delta R.T. -0.000 min

Lab File: VN085996.D

Acq: 18 Mar 2025 11:44

Tgt Ion:164 Resp: 217951

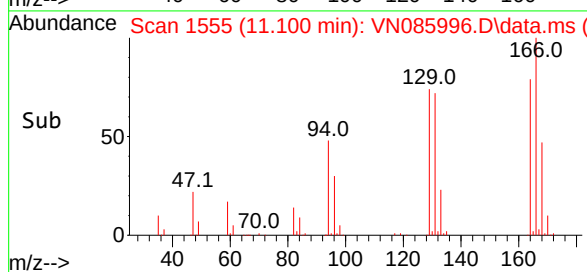
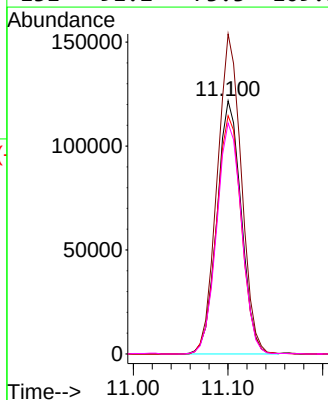
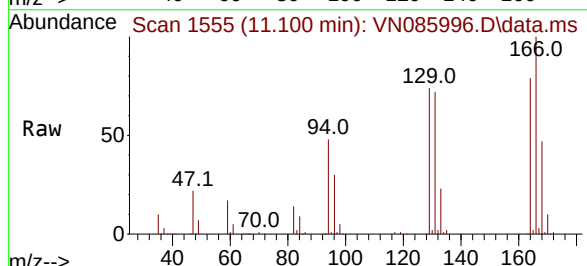
Ion Ratio Lower Upper

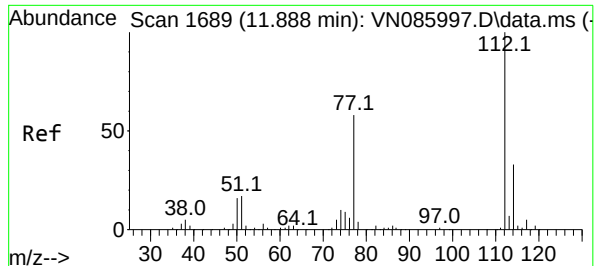
164 100

166 126.4 103.7 155.5

129 94.1 77.1 115.7

131 91.2 73.3 109.9





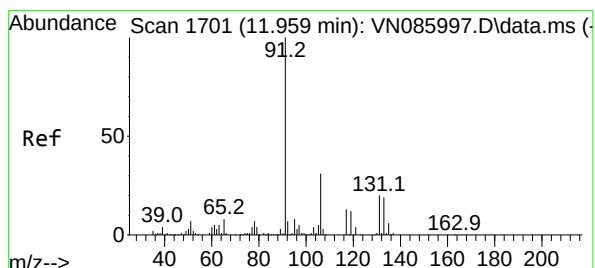
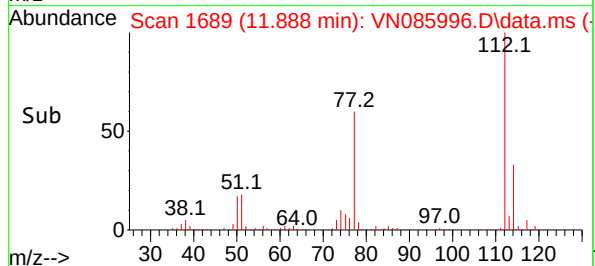
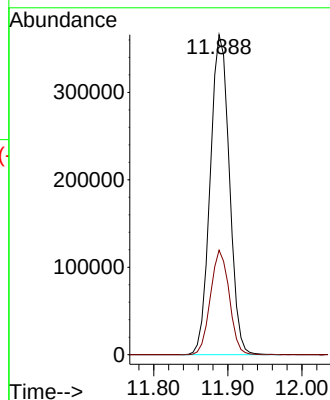
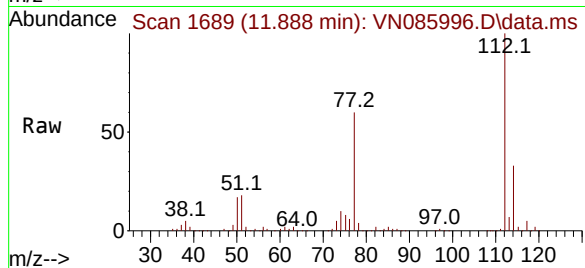
#65
Chlorobenzene
Concen: 107.422 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. -0.000 min
Lab File: VN085996.D
Acq: 18 Mar 2025 11:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:112 Resp: 65765
Ion Ratio Lower Upper
112 100
114 32.6 26.3 39.5

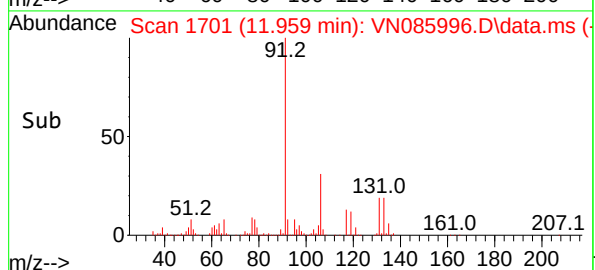
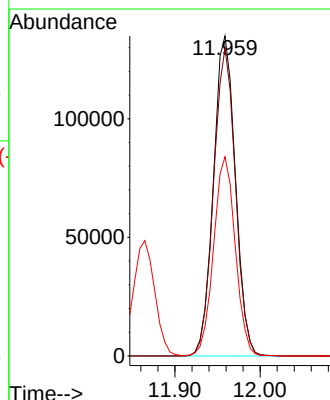
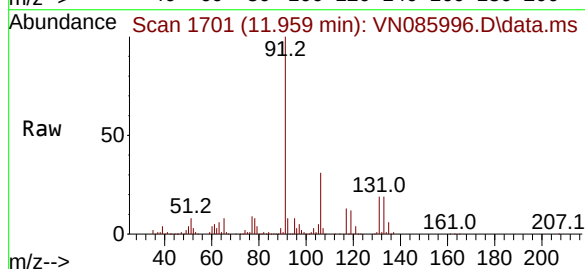
Manual Integrations
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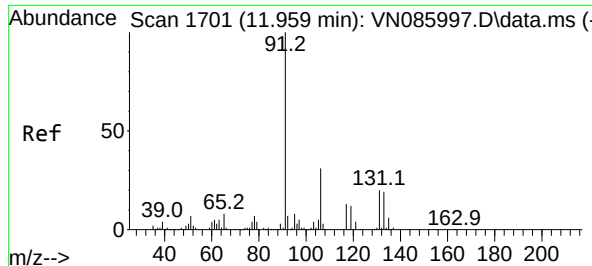
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 106.205 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN085996.D
Acq: 18 Mar 2025 11:44

Tgt Ion:131 Resp: 241702
Ion Ratio Lower Upper
131 100
133 95.5 47.0 141.0
119 61.4 31.4 94.0





#67

Ethyl Benzene

Concen: 120.702 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VN085996.D

Acq: 18 Mar 2025 11:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 91 Resp: 118205

Ion Ratio Lower Upper

91 100

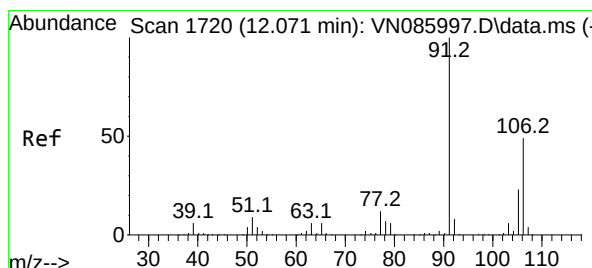
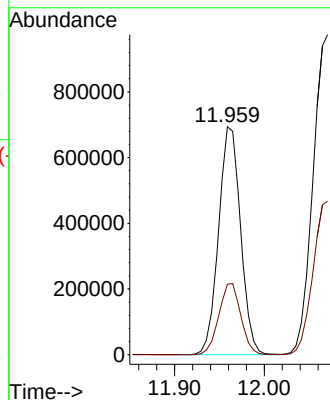
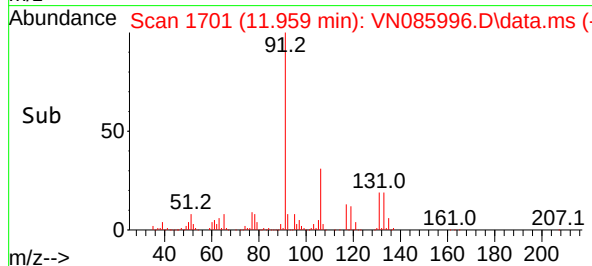
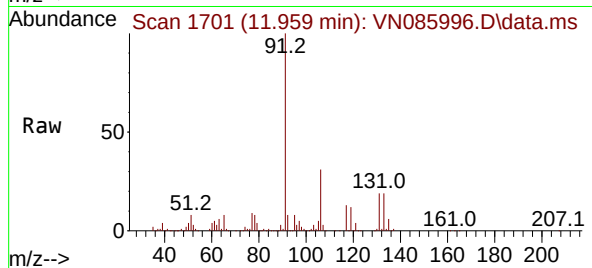
106 31.0 24.5 36.7

Manual Integrations

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Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#68

m/p-Xylenes

Concen: 240.977 ug/l

RT: 12.071 min Scan# 1720

Delta R.T. -0.000 min

Lab File: VN085996.D

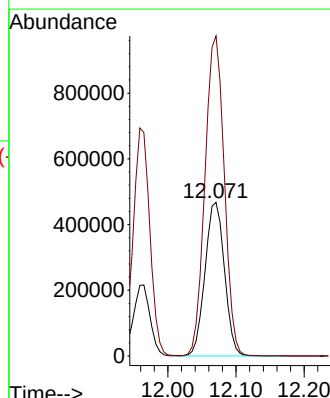
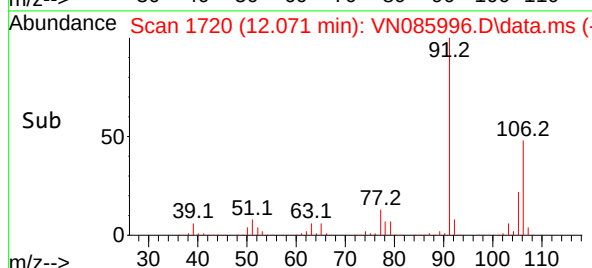
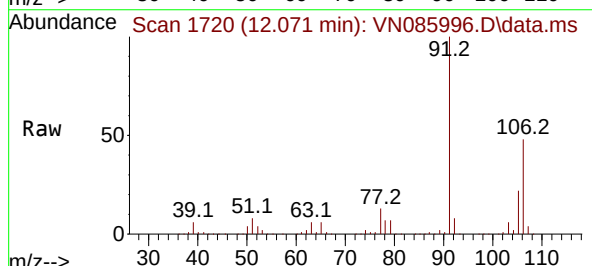
Acq: 18 Mar 2025 11:44

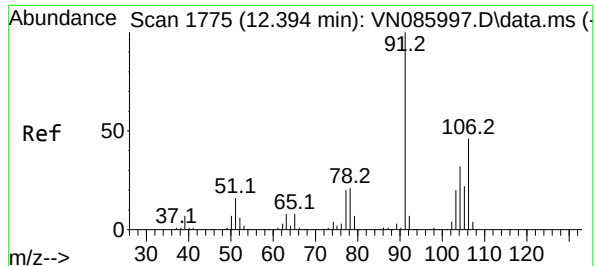
Tgt Ion:106 Resp: 927553

Ion Ratio Lower Upper

106 100

91 206.9 163.9 245.9





#69

o-Xylene

Concen: 125.926 ug/l

RT: 12.394 min Scan# 1775

Delta R.T. -0.000 min

Lab File: VN085996.D

Acq: 18 Mar 2025 11:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion:106 Resp: 444860

Ion Ratio Lower Upper

106 100

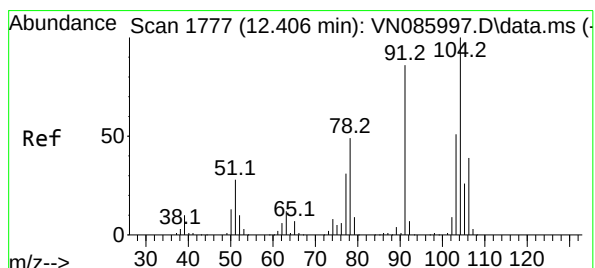
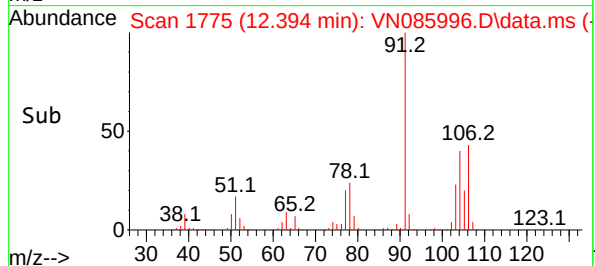
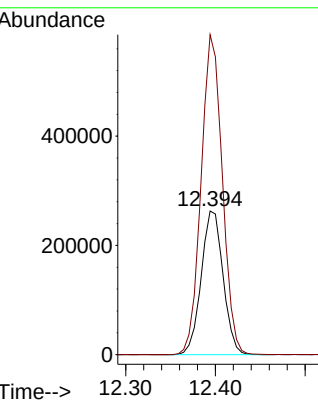
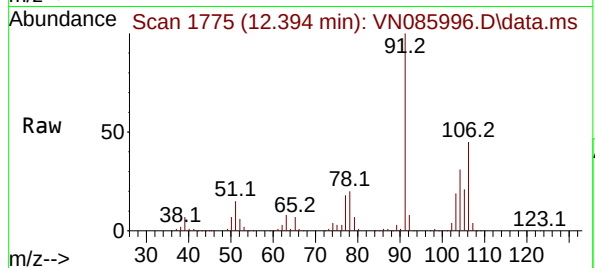
91 216.4 109.1 327.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#70

Styrene

Concen: 126.938 ug/l

RT: 12.412 min Scan# 1778

Delta R.T. 0.006 min

Lab File: VN085996.D

Acq: 18 Mar 2025 11:44

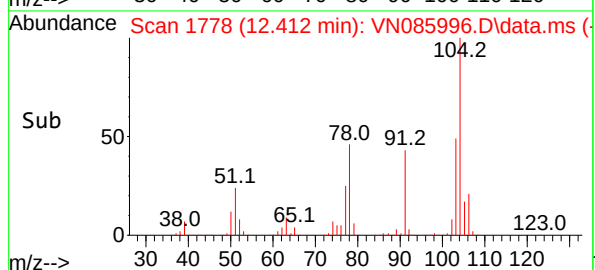
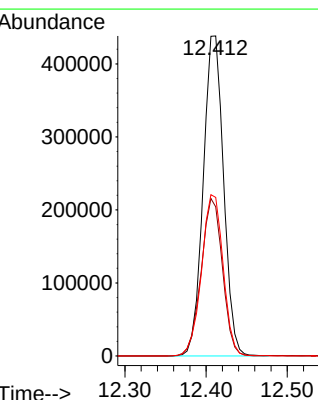
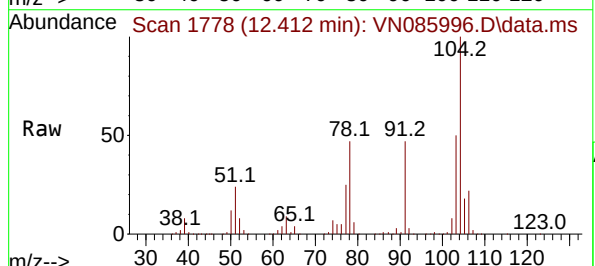
Tgt Ion:104 Resp: 765959

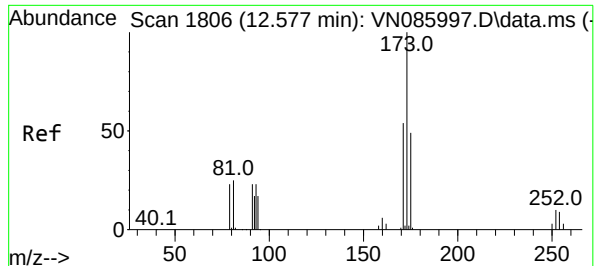
Ion Ratio Lower Upper

104 100

78 51.5 41.4 62.2

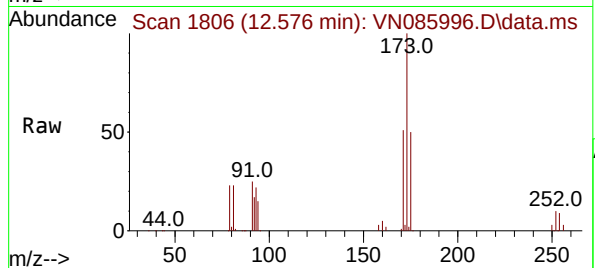
103 53.3 42.9 64.3





#71
Bromoform
Concen: 110.191 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. -0.000 min
Lab File: VN085996.D
Acq: 18 Mar 2025 11:44

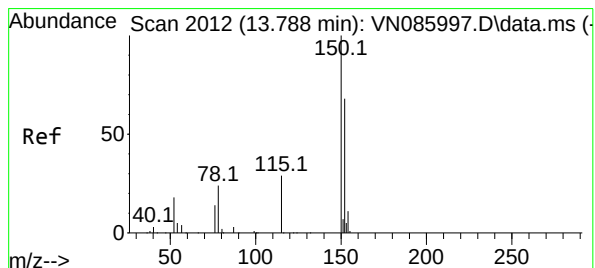
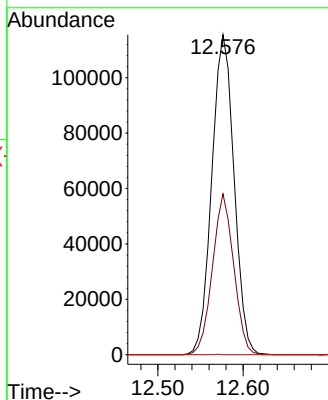
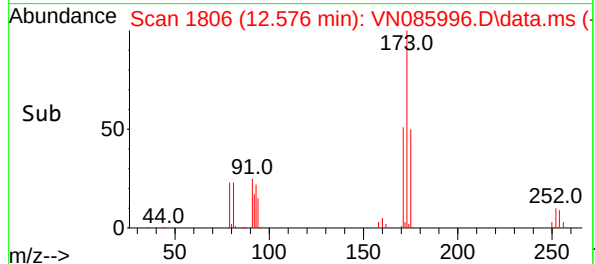
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion:173 Resp: 20963
Ion Ratio Lower Upper
173 100
175 47.9 24.3 73.0
254 0.0 0.0 0.0

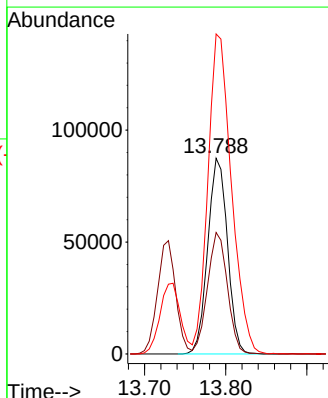
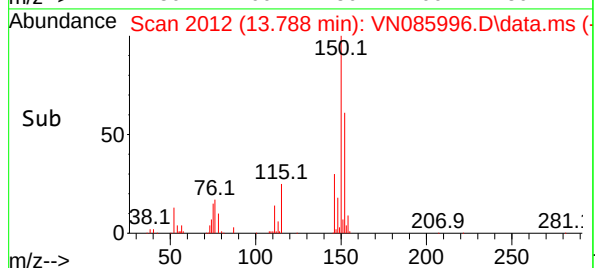
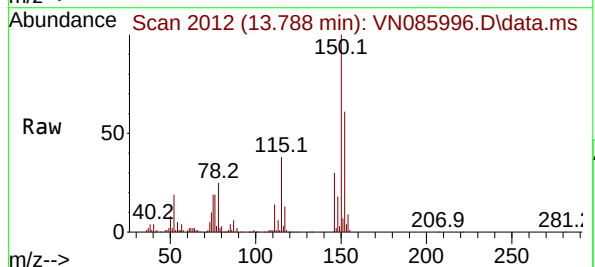
Manual Integrations
APPROVED

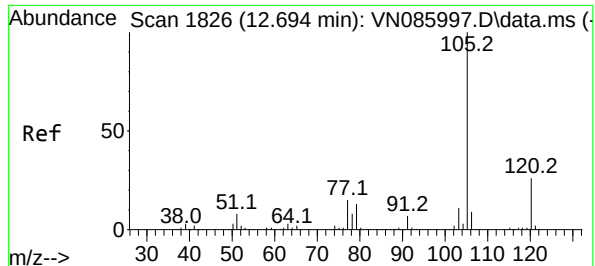
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN085996.D
Acq: 18 Mar 2025 11:44

Tgt Ion:152 Resp: 147510
Ion Ratio Lower Upper
152 100
115 62.6 31.1 93.2
150 194.7 0.0 359.6





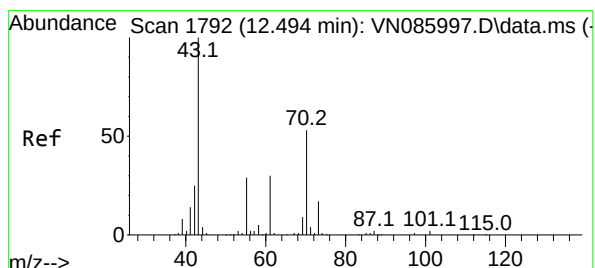
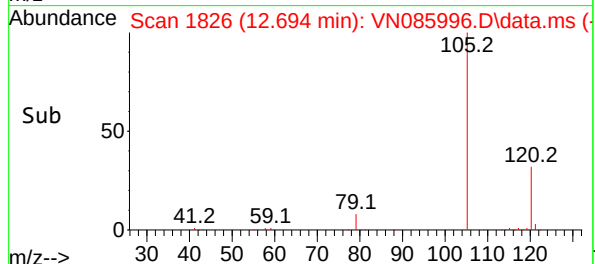
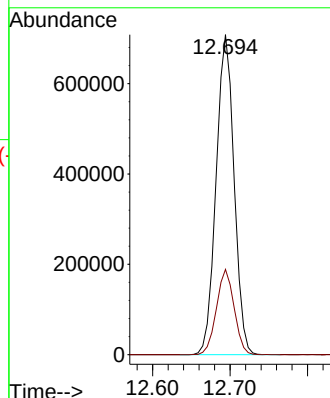
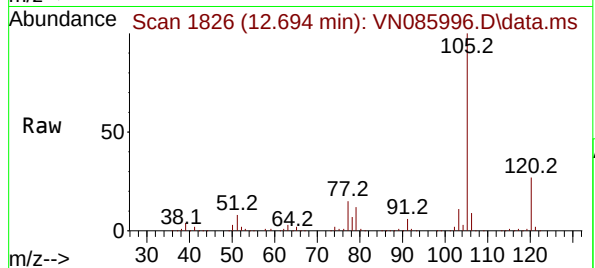
#73
Isopropylbenzene
Concen: 113.143 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. -0.000 min
Lab File: VN085996.D
Acq: 18 Mar 2025 11:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:105 Resp: 1139710
Ion Ratio Lower Upper
105 100
120 26.2 13.0 39.0

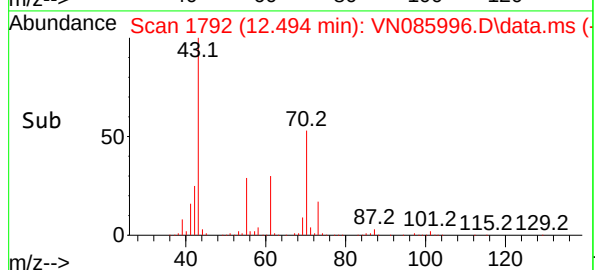
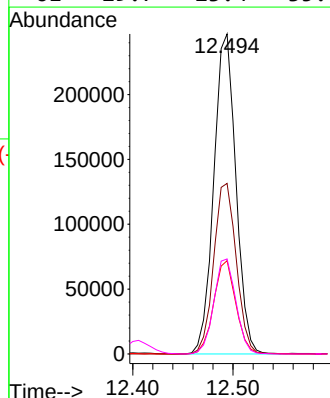
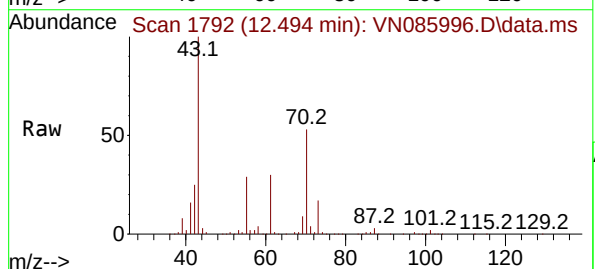
Manual Integrations
APPROVED

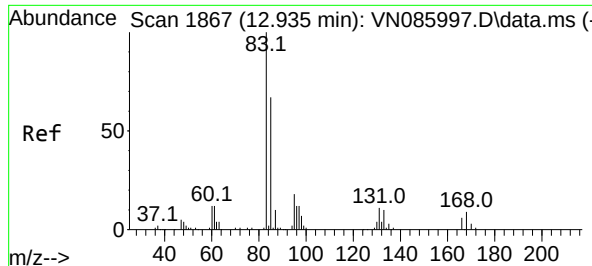
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#74
N-ethyl acetate
Concen: 111.912 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. -0.000 min
Lab File: VN085996.D
Acq: 18 Mar 2025 11:44

Tgt Ion: 43 Resp: 377161
Ion Ratio Lower Upper
43 100
70 54.5 43.0 64.4
55 29.3 23.8 35.8
61 29.7 23.4 35.0





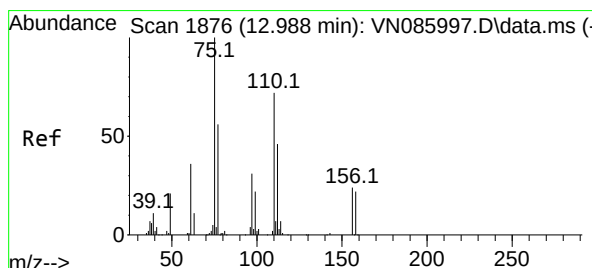
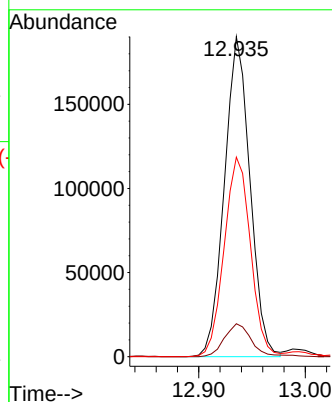
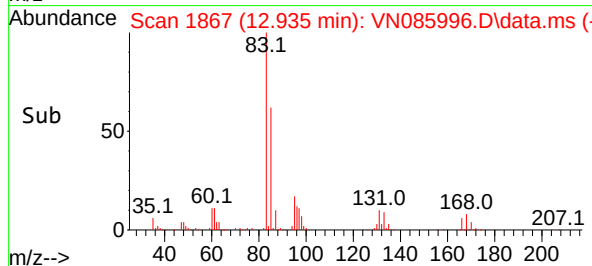
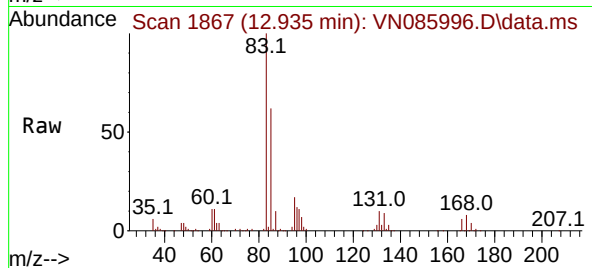
#75
1,1,2,2-Tetrachloroethane
Concen: 93.117 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. -0.000 min
Lab File: VN085996.D
Acq: 18 Mar 2025 11:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 83 Resp: 31733
Ion Ratio Lower Upper
83 100
131 11.0 5.5 16.5
85 64.2 32.6 97.8

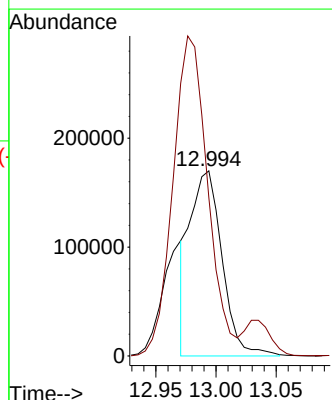
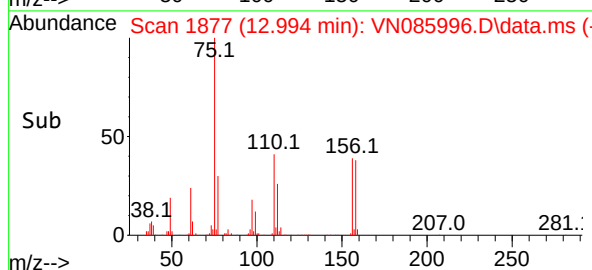
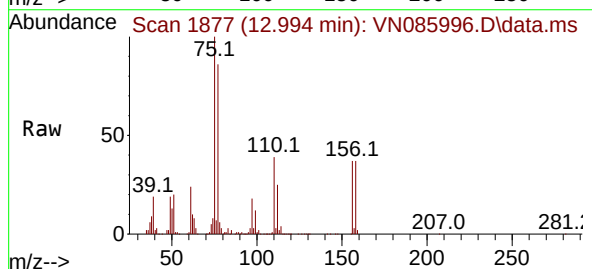
Manual Integrations
APPROVED

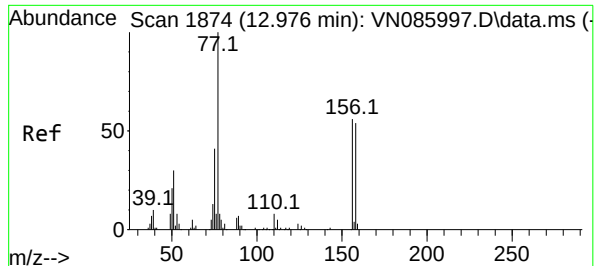
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#76
1,2,3-Trichloropropane
Concen: 93.831 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. 0.006 min
Lab File: VN085996.D
Acq: 18 Mar 2025 11:44

Tgt Ion: 75 Resp: 315551
Ion Ratio Lower Upper
75 100
77 187.0 83.7 251.0





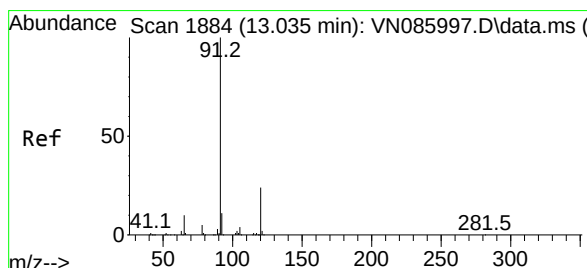
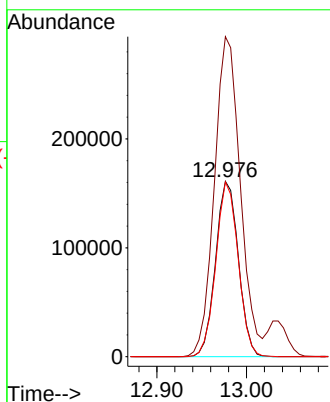
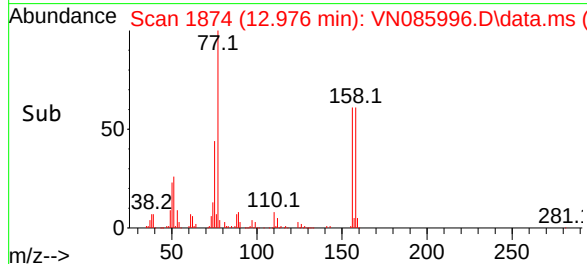
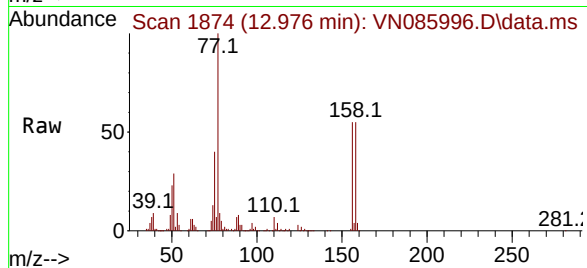
#77
Bromobenzene
Concen: 101.270 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. -0.000 min
Lab File: VN085996.D
Acq: 18 Mar 2025 11:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:156 Resp: 284449
Ion Ratio Lower Upper
156 100
77 207.4 104.1 312.3
158 97.7 49.0 147.0

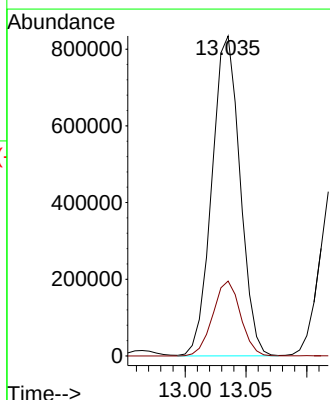
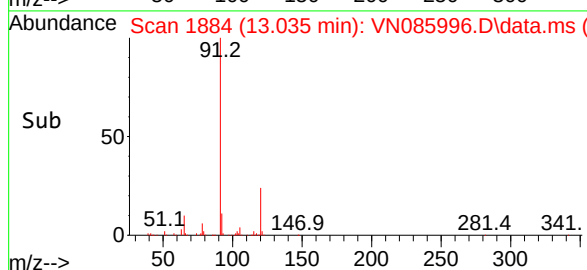
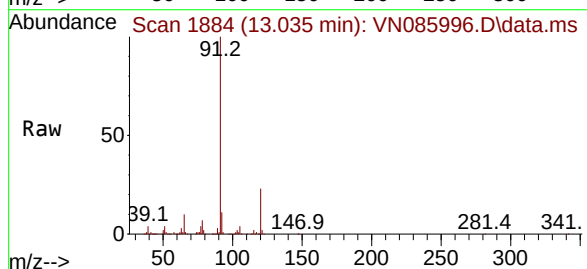
Manual Integrations
APPROVED

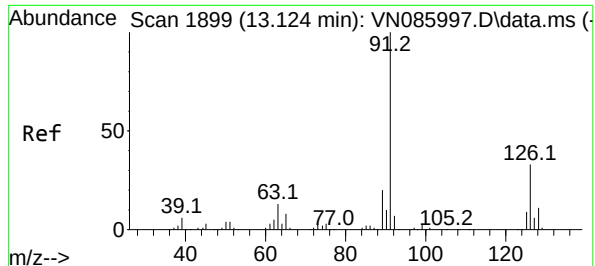
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#78
n-propylbenzene
Concen: 117.577 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN085996.D
Acq: 18 Mar 2025 11:44

Tgt Ion: 91 Resp: 1341141
Ion Ratio Lower Upper
91 100
120 23.1 11.7 35.0





#79

2-Chlorotoluene

Concen: 109.823 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. -0.000 min

Lab File: VN085996.D

Acq: 18 Mar 2025 11:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 91 Resp: 832060

Ion Ratio Lower Upper

91 100

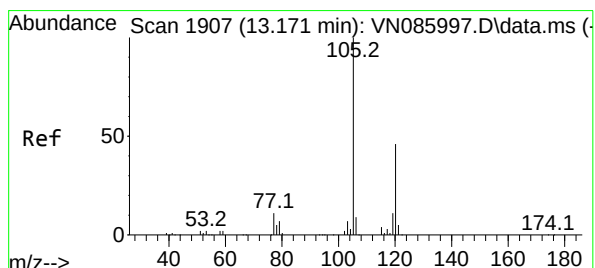
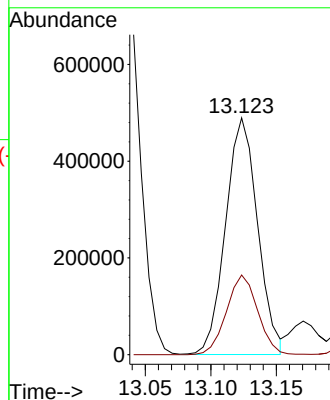
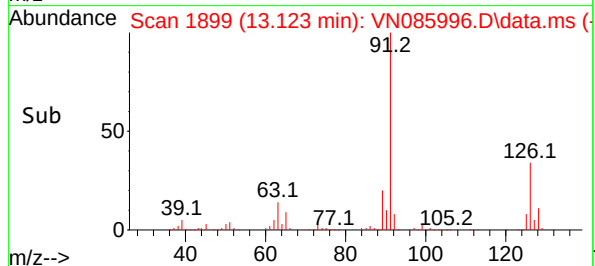
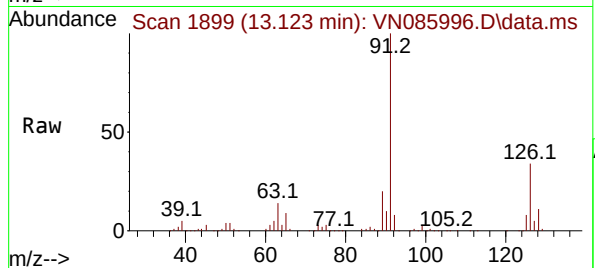
126 32.8 16.4 49.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#80

1,3,5-Trimethylbenzene

Concen: 117.902 ug/l

RT: 13.171 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VN085996.D

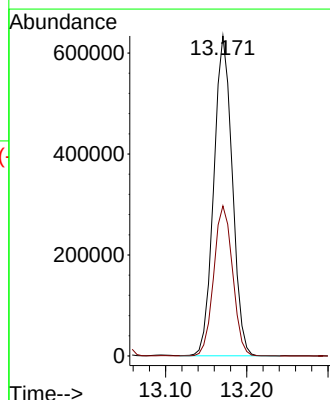
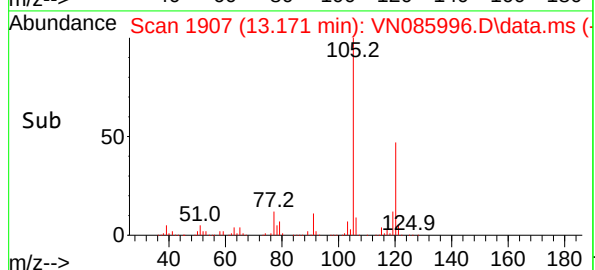
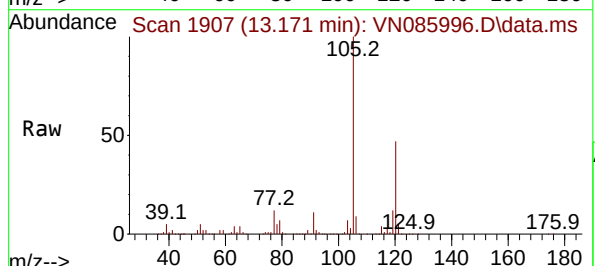
Acq: 18 Mar 2025 11:44

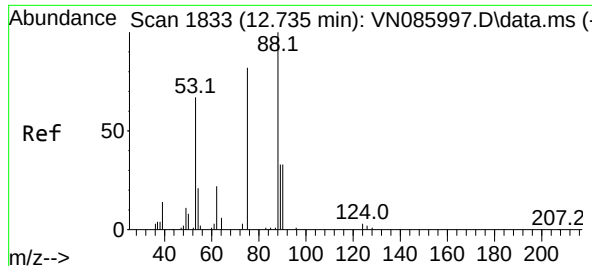
Tgt Ion:105 Resp: 1002727

Ion Ratio Lower Upper

105 100

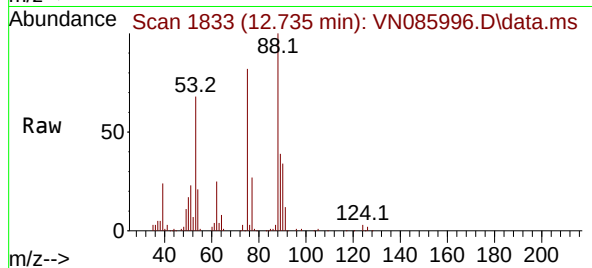
120 47.8 23.7 71.1





#81
trans-1,4-Dichloro-2-butene
Concen: 114.684 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. -0.000 min
Lab File: VN085996.D
Acq: 18 Mar 2025 11:44

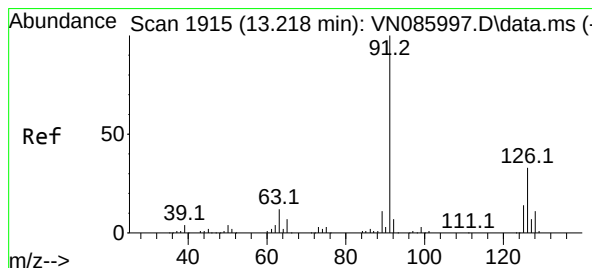
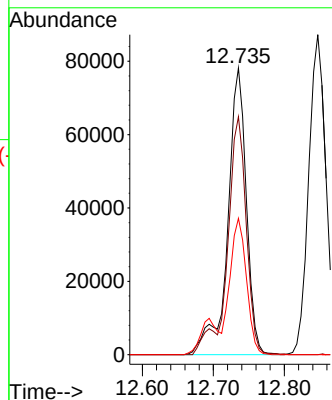
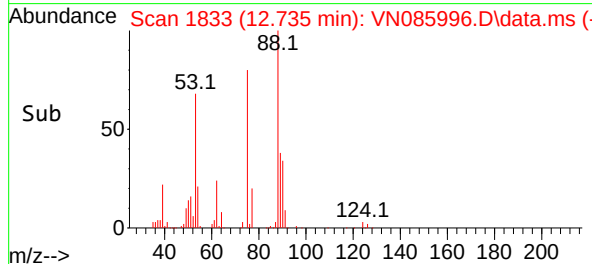
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion: 75 Resp: 143254
Ion Ratio Lower Upper
75 100
53 83.3 66.0 99.0
89 41.6 36.9 55.3

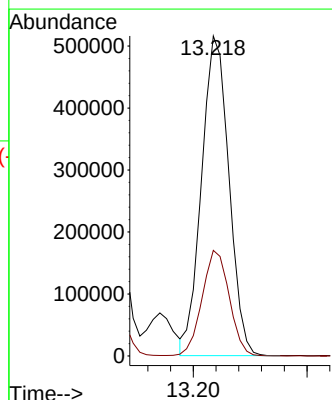
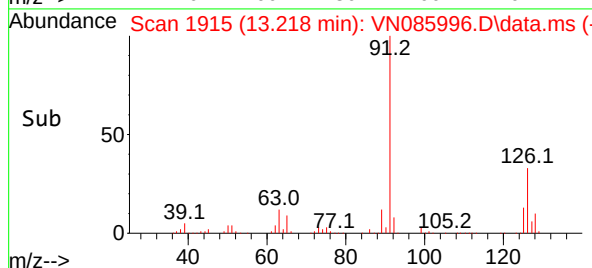
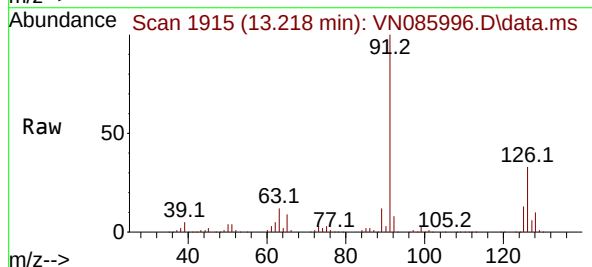
Manual Integrations
APPROVED

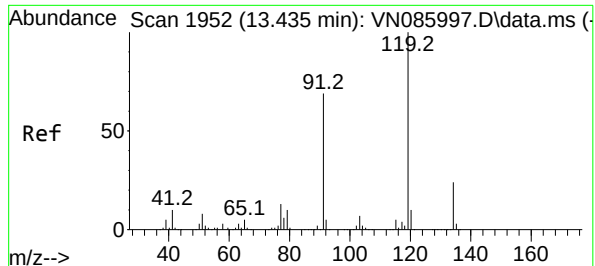
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#82
4-Chlorotoluene
Concen: 110.605 ug/l
RT: 13.218 min Scan# 1915
Delta R.T. -0.000 min
Lab File: VN085996.D
Acq: 18 Mar 2025 11:44

Tgt Ion: 91 Resp: 861737
Ion Ratio Lower Upper
91 100
126 32.8 16.1 48.2





#83

tert-Butylbenzene

Concen: 112.824 ug/l

RT: 13.435 min Scan# 1952

Delta R.T. -0.000 min

Lab File: VN085996.D

Acq: 18 Mar 2025 11:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion:119 Resp: 82065

Ion Ratio Lower Upper

119 100

91 69.4 34.3 102.9

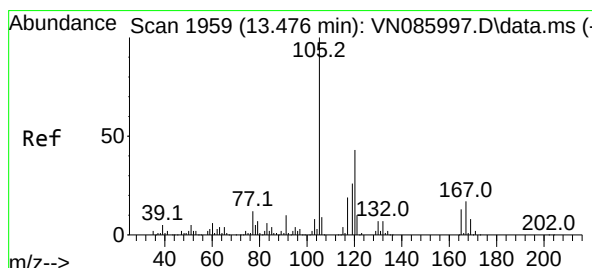
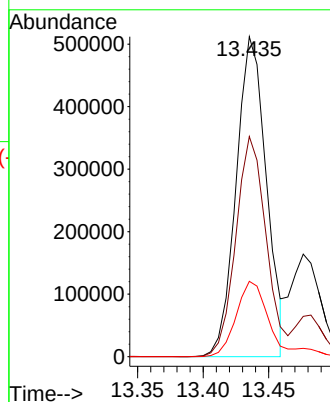
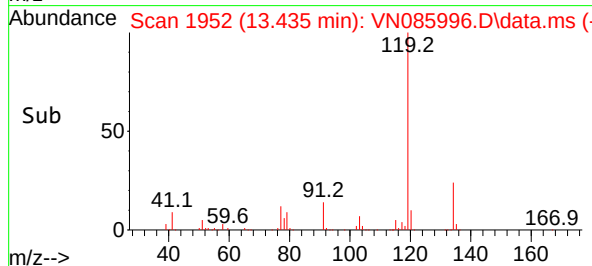
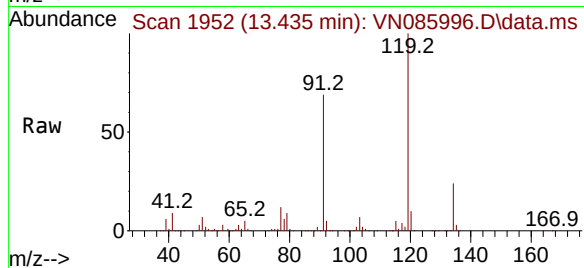
134 26.4 13.5 40.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#84

1,2,4-Trimethylbenzene

Concen: 119.410 ug/l

RT: 13.482 min Scan# 1960

Delta R.T. 0.006 min

Lab File: VN085996.D

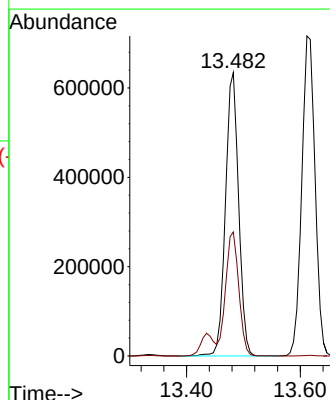
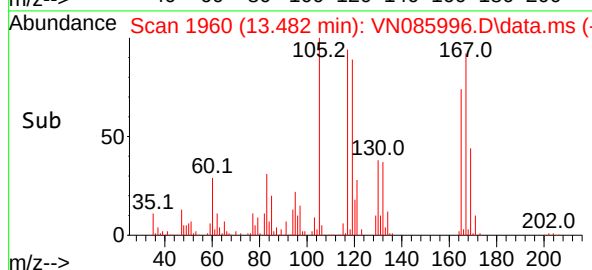
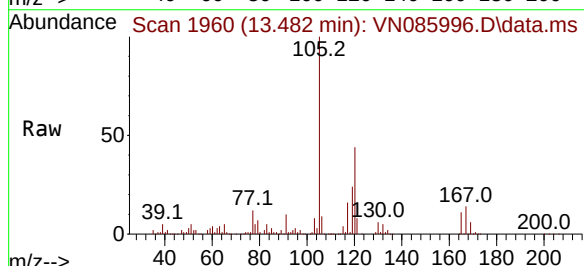
Acq: 18 Mar 2025 11:44

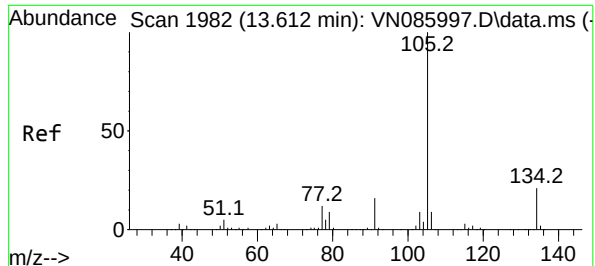
Tgt Ion:105 Resp: 1024294

Ion Ratio Lower Upper

105 100

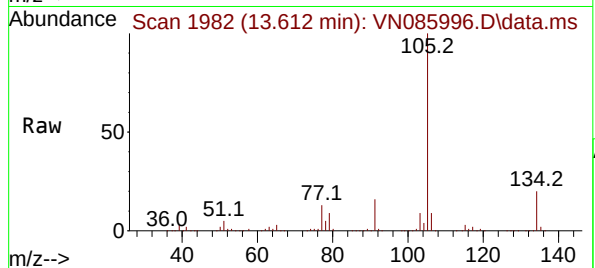
120 43.8 21.9 65.8





#85
sec-Butylbenzene
Concen: 122.266 ug/l
RT: 13.612 min Scan# 1982
Delta R.T. -0.000 min
Lab File: VN085996.D
Acq: 18 Mar 2025 11:44

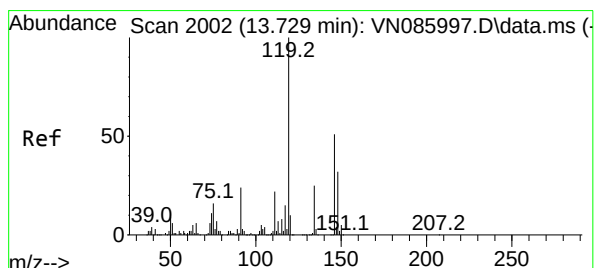
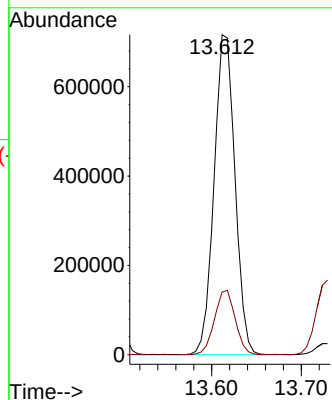
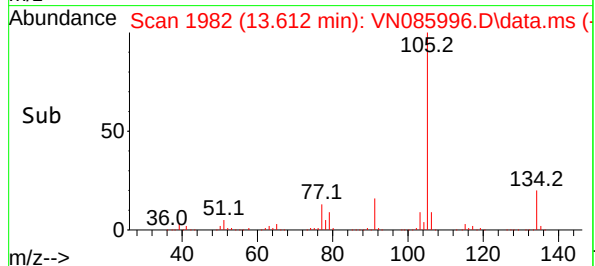
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion:105 Resp: 116016
Ion Ratio Lower Upper
105 100
134 19.9 10.1 30.1

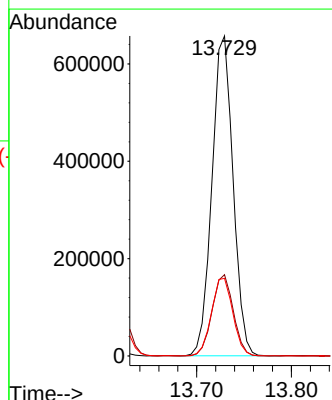
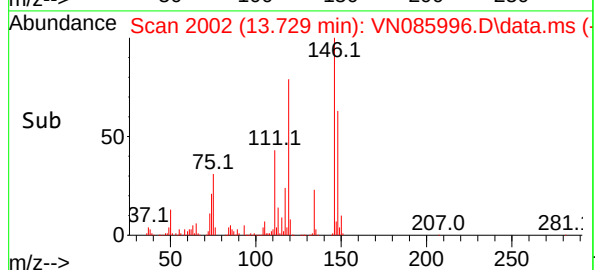
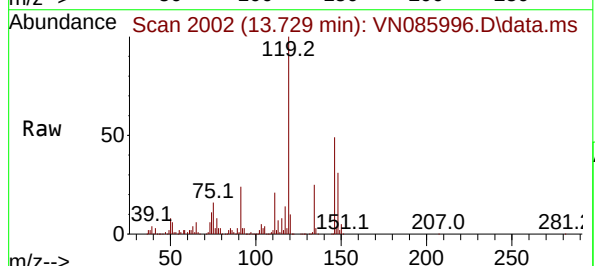
Manual Integrations
APPROVED

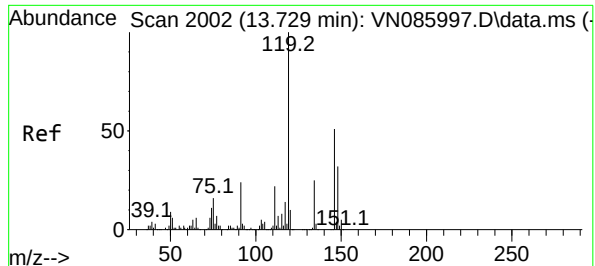
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#86
p-Isopropyltoluene
Concen: 126.470 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN085996.D
Acq: 18 Mar 2025 11:44

Tgt Ion:119 Resp: 1015859
Ion Ratio Lower Upper
119 100
134 25.6 12.6 37.8
91 24.6 12.3 36.8





#87

1,3-Dichlorobenzene

Concen: 107.364 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.000 min

Lab File: VN085996.D

Acq: 18 Mar 2025 11:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion:146 Resp: 543572

Ion Ratio Lower Upper

146 100

111 42.2 21.2 63.6

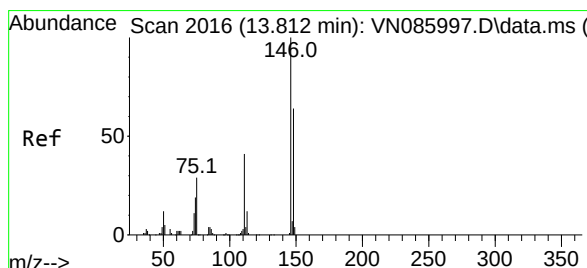
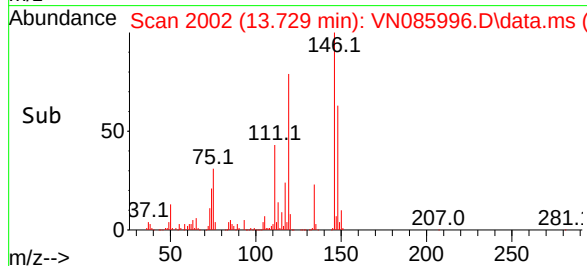
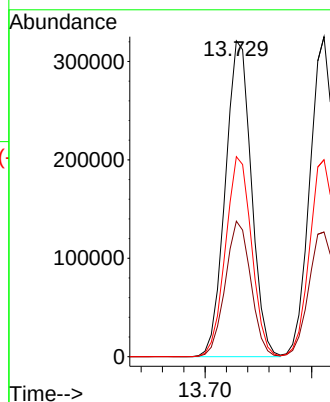
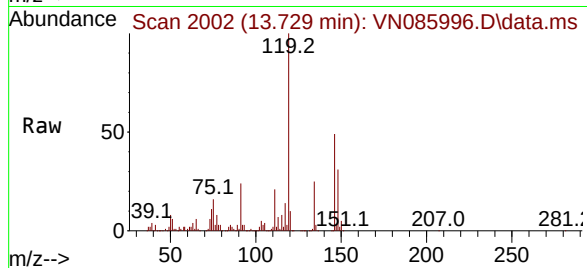
148 63.6 31.8 95.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#88

1,4-Dichlorobenzene

Concen: 101.234 ug/l

RT: 13.812 min Scan# 2016

Delta R.T. -0.000 min

Lab File: VN085996.D

Acq: 18 Mar 2025 11:44

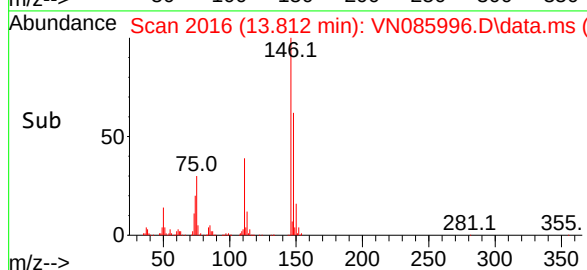
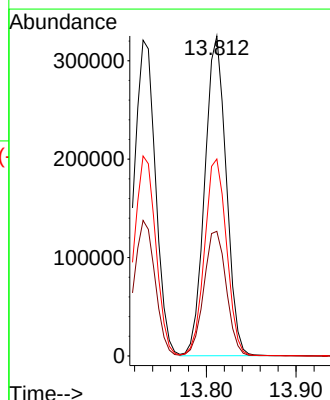
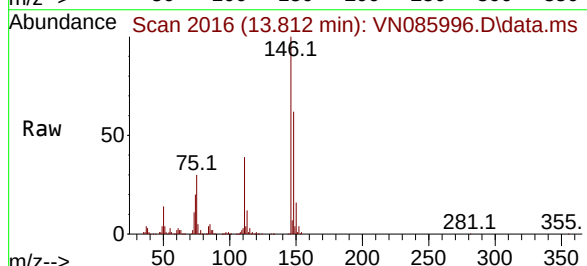
Tgt Ion:146 Resp: 538505

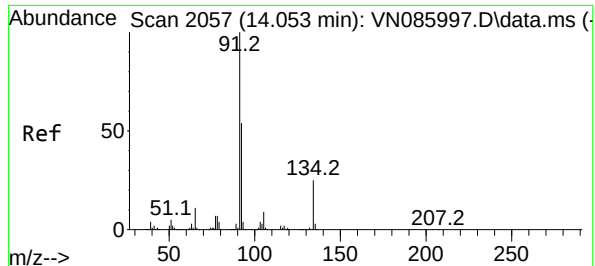
Ion Ratio Lower Upper

146 100

111 41.1 20.4 61.3

148 63.2 32.1 96.5





#89

n-Butylbenzene

Concen: 129.699 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.000 min

Lab File: VN085996.D

Acq: 18 Mar 2025 11:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 91 Resp: 84836

Ion Ratio Lower Upper

91 100

92 53.7 26.9 80.6

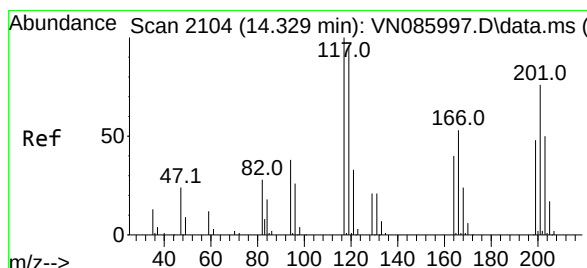
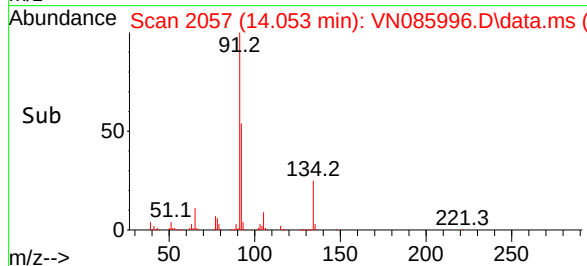
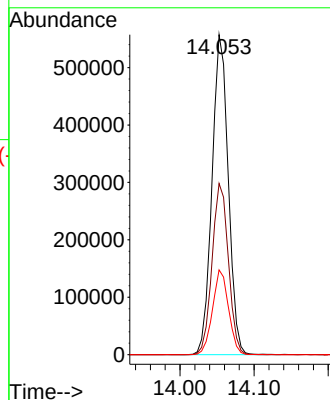
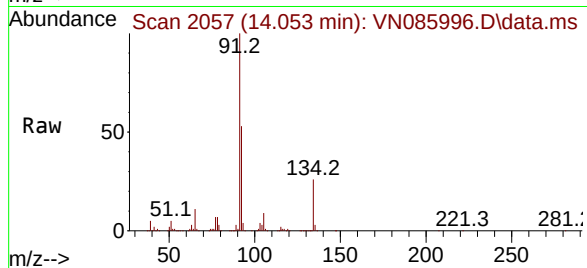
134 26.1 13.0 39.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#90

Hexachloroethane

Concen: 101.383 ug/l

RT: 14.329 min Scan# 2104

Delta R.T. -0.000 min

Lab File: VN085996.D

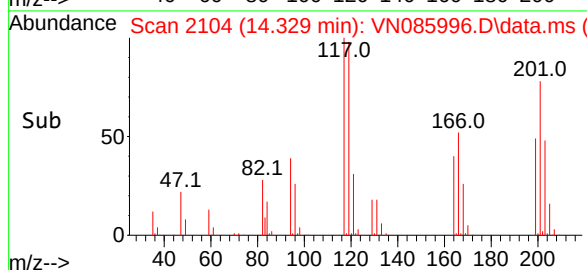
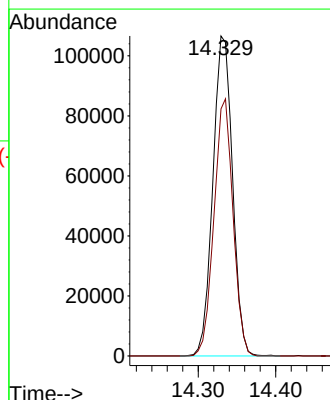
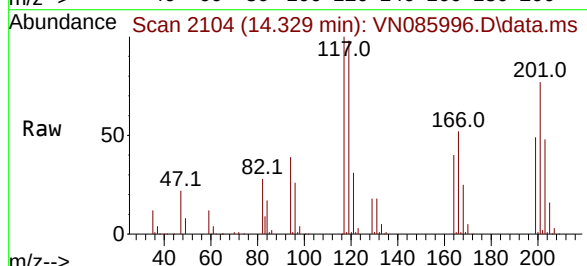
Acq: 18 Mar 2025 11:44

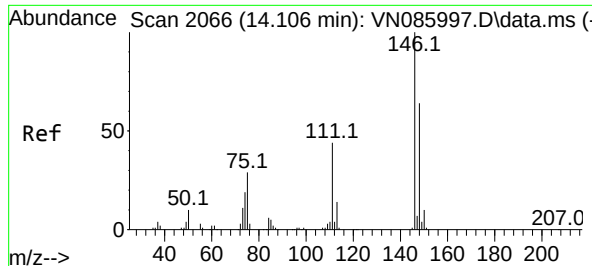
Tgt Ion:117 Resp: 187906

Ion Ratio Lower Upper

117 100

201 77.9 39.1 117.3





#91

1,2-Dichlorobenzene

Concen: 100.605 ug/l

RT: 14.106 min Scan# 2066

Delta R.T. -0.000 min

Lab File: VN085996.D

Acq: 18 Mar 2025 11:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion:146 Resp: 506350

Ion Ratio Lower Upper

146 100

111 44.5 22.3 66.8

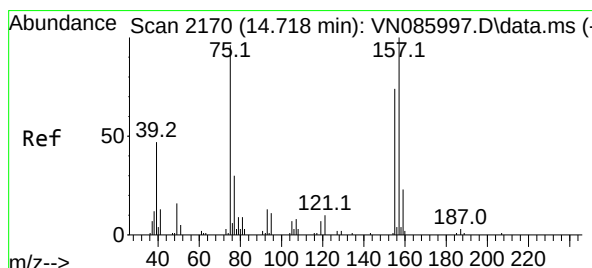
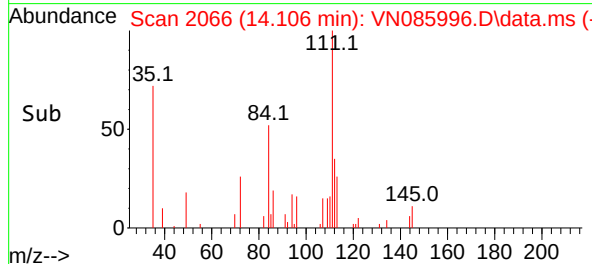
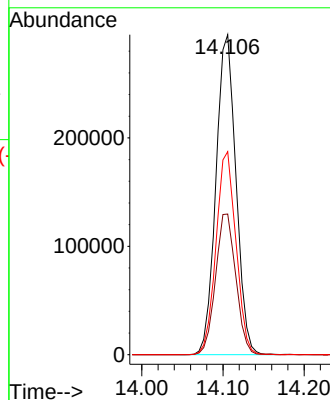
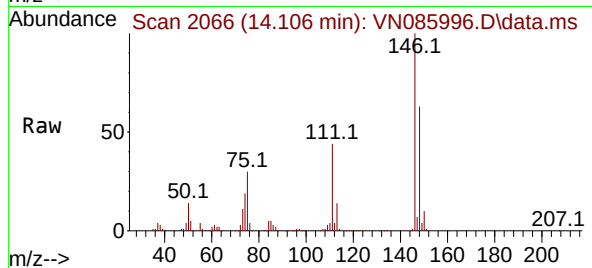
148 63.2 32.1 96.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#92

1,2-Dibromo-3-Chloropropane

Concen: 103.948 ug/l

RT: 14.717 min Scan# 2170

Delta R.T. -0.000 min

Lab File: VN085996.D

Acq: 18 Mar 2025 11:44

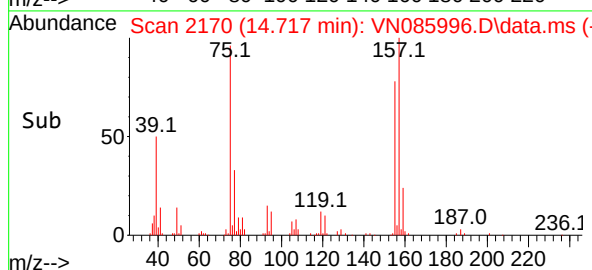
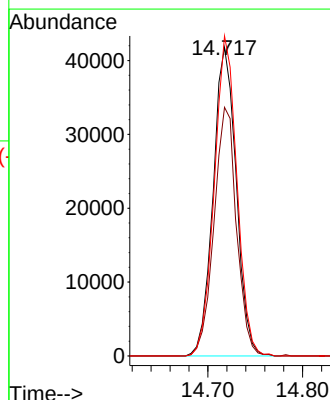
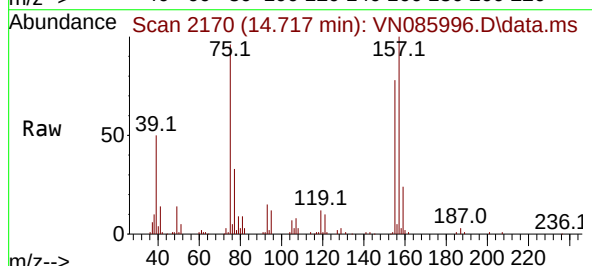
Tgt Ion: 75 Resp: 70713

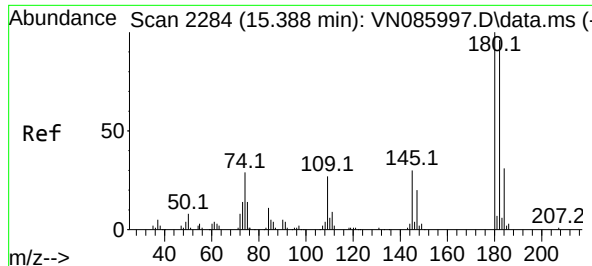
Ion Ratio Lower Upper

75 100

155 78.6 41.0 123.0

157 101.5 53.7 161.1





#93

1,2,4-Trichlorobenzene

Concen: 111.025 ug/l

RT: 15.394 min Scan# 21

Delta R.T. 0.006 min

Lab File: VN085996.D

Acq: 18 Mar 2025 11:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion:180 Resp: 28097

Ion Ratio Lower Upper

180 100

182 94.8 47.0 141.0

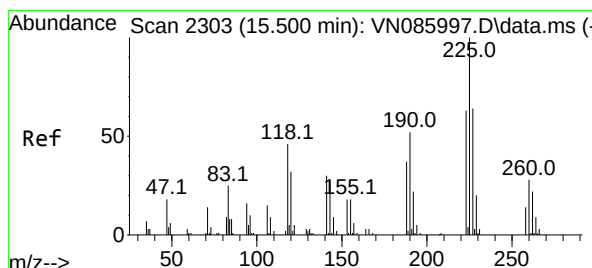
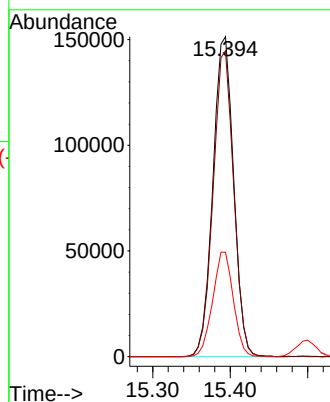
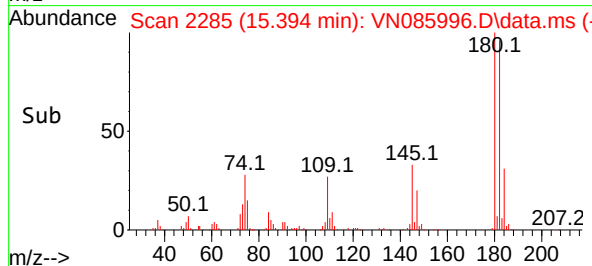
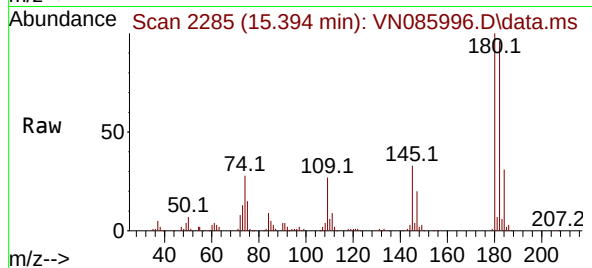
145 32.6 15.5 46.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#94

Hexachlorobutadiene

Concen: 98.130 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. -0.000 min

Lab File: VN085996.D

Acq: 18 Mar 2025 11:44

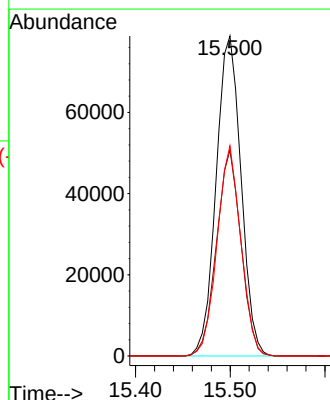
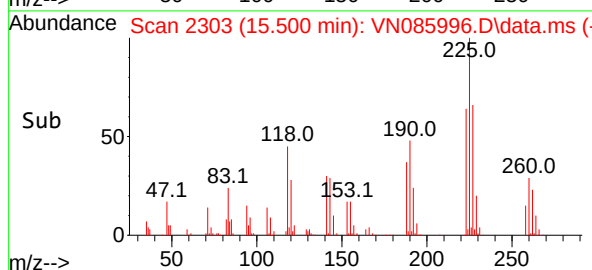
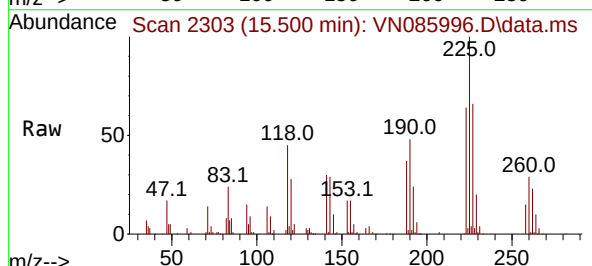
Tgt Ion:225 Resp: 144077

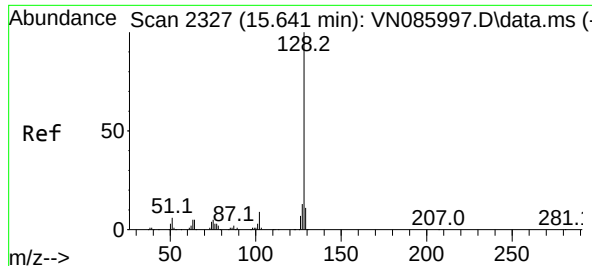
Ion Ratio Lower Upper

225 100

223 63.0 31.3 93.9

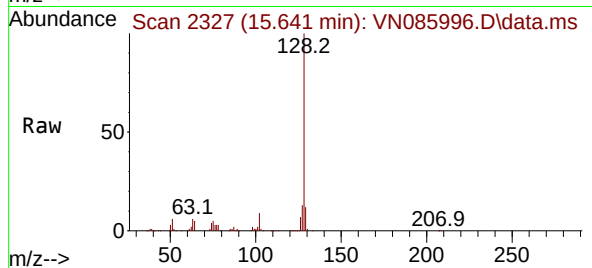
227 62.8 32.1 96.3





#95
Naphthalene
Concen: 115.132 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. -0.000 min
Lab File: VN085996.D
Acq: 18 Mar 2025 11:44

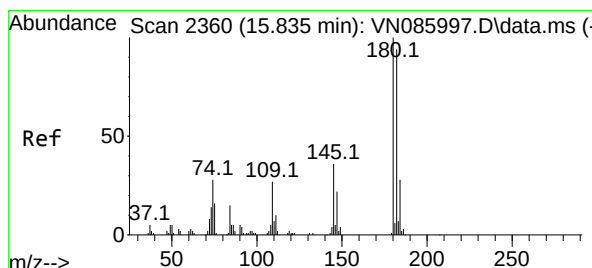
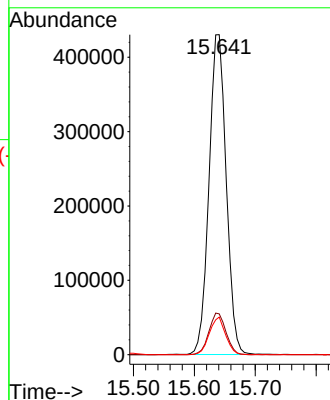
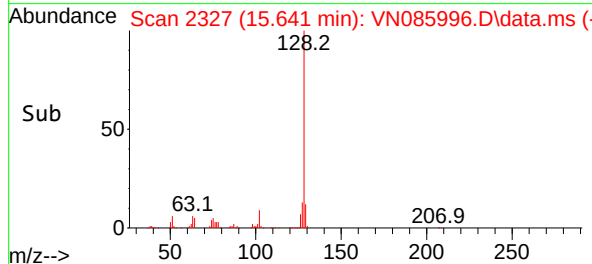
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion:128 Resp: 84369
Ion Ratio Lower Upper
128 100
127 12.9 10.2 15.4
129 11.1 9.0 13.6

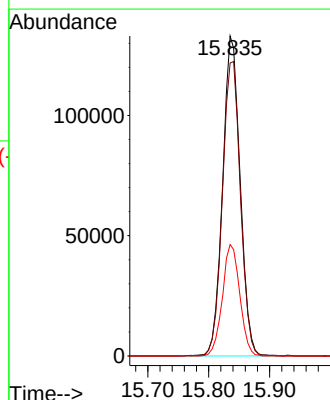
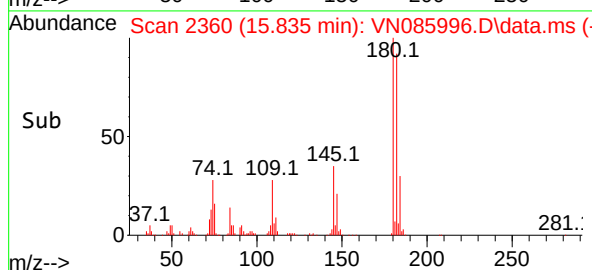
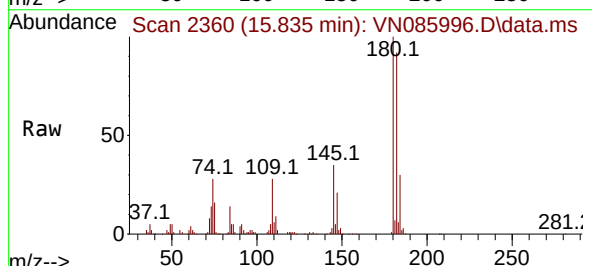
Manual Integrations
APPROVED

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



#96
1,2,3-Trichlorobenzene
Concen: 110.600 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VN085996.D
Acq: 18 Mar 2025 11:44

Tgt Ion:180 Resp: 265586
Ion Ratio Lower Upper
180 100
182 94.7 47.5 142.5
145 34.6 17.7 53.1



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031825\
 Data File : VN085997.D
 Acq On : 18 Mar 2025 12:08
 Operator : JC\MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC050

Quant Time: Mar 19 02:53:11 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 19 02:30:27 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

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

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	191040	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	303794	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	273511	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	137905	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	127029	48.559	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	97.120%		
35) Dibromofluoromethane	8.165	113	101590	47.910	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	95.820%		
50) Toluene-d8	10.565	98	384569	49.972	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	99.940%		
62) 4-Bromofluorobenzene	12.847	95	141464	51.544	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	103.080%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	122875	48.549	ug/l	100
3) Chloromethane	2.360	50	106345	47.928	ug/l	100
4) Vinyl Chloride	2.507	62	113163	49.880	ug/l	100
5) Bromomethane	2.942	94	72791	47.103	ug/l	100
6) Chloroethane	3.112	64	63077	44.072	ug/l	100
7) Trichlorofluoromethane	3.489	101	186678	45.774	ug/l	100
8) Diethyl Ether	3.959	74	61984	49.647	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.365	101	98361	45.380	ug/l	100
10) Methyl Iodide	4.583	142	139044	49.232	ug/l	100
11) Tert butyl alcohol	5.524	59	90032	243.082	ug/l	100
12) 1,1-Dichloroethene	4.336	96	98583	50.369	ug/l	100
13) Acrolein	4.177	56	95299	241.241	ug/l	100
14) Allyl chloride	5.018	41	117849	48.265	ug/l	100
15) Acrylonitrile	5.718	53	236614	241.896	ug/l	100
16) Acetone	4.424	43	185613	232.246	ug/l	100
17) Carbon Disulfide	4.706	76	288424	44.810	ug/l	100
18) Methyl Acetate	5.024	43	89551	45.288	ug/l	100
19) Methyl tert-butyl Ether	5.795	73	323093	50.377	ug/l	100
20) Methylene Chloride	5.271	84	107918	46.158	ug/l	100
21) trans-1,2-Dichloroethene	5.783	96	101963	47.670	ug/l	100
22) Diisopropyl ether	6.671	45	263272	50.597	ug/l	100
23) Vinyl Acetate	6.600	43	1019460	258.439	ug/l	100
24) 1,1-Dichloroethane	6.565	63	181215	47.361	ug/l	100
25) 2-Butanone	7.483	43	278702	241.675	ug/l	100
26) 2,2-Dichloropropane	7.489	77	176949	48.036	ug/l	100
27) cis-1,2-Dichloroethene	7.483	96	120874	49.730	ug/l	100
28) Bromochloromethane	7.806	49	74679	46.067	ug/l	100
29) Tetrahydrofuran	7.836	42	185207	260.140	ug/l	100
30) Chloroform	7.965	83	194324	45.948	ug/l	100
31) Cyclohexane	8.253	56	152647	46.831	ug/l	100
32) 1,1,1-Trichloroethane	8.165	97	188288	47.032	ug/l	100
36) 1,1-Dichloropropene	8.365	75	137990	49.422	ug/l	100
37) Ethyl Acetate	7.559	43	111535	47.350	ug/l	100
38) Carbon Tetrachloride	8.359	117	175652	47.847	ug/l	100
39) Methylcyclohexane	9.600	83	144397	52.126	ug/l	100
40) Benzene	8.606	78	423071	48.268	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031825\
 Data File : VN085997.D
 Acq On : 18 Mar 2025 12:08
 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 03/19/2025
 Supervised By : Mahesh Dadoda 03/19/2025

Quant Time: Mar 19 02:53:11 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 19 02:30:27 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	58596	52.096	ug/l	100
42) 1,2-Dichloroethane	8.671	62	144354	47.265	ug/l	100
43) Isopropyl Acetate	8.683	43	208926m	40.845	ug/l	
44) Trichloroethene	9.347	130	105089	46.260	ug/l	100
45) 1,2-Dichloropropane	9.618	63	97398	48.856	ug/l	100
46) Dibromomethane	9.706	93	73743	47.036	ug/l	100
47) Bromodichloromethane	9.883	83	156908	47.887	ug/l	100
48) Methyl methacrylate	9.677	41	87911	52.192	ug/l	100
49) 1,4-Dioxane	9.694	88	41818	1050.235	ug/l	100
51) 4-Methyl-2-Pentanone	10.441	43	584167	259.501	ug/l	100
52) Toluene	10.630	92	277914	51.661	ug/l	100
53) t-1,3-Dichloropropene	10.835	75	163659	51.430	ug/l	100
54) cis-1,3-Dichloropropene	10.312	75	172456	51.366	ug/l	100
55) 1,1,2-Trichloroethane	11.012	97	99259	48.343	ug/l	100
56) Ethyl methacrylate	10.871	69	159926	49.943	ug/l	100
57) 1,3-Dichloropropane	11.159	76	172224	49.385	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.159	63	323306	261.262	ug/l	100
59) 2-Hexanone	11.194	43	431923	263.380	ug/l	100
60) Dibromochloromethane	11.359	129	131303	49.558	ug/l	100
61) 1,2-Dibromoethane	11.465	107	106539	50.543	ug/l	100
64) Tetrachloroethene	11.100	164	101407	46.478	ug/l	100
65) Chlorobenzene	11.888	112	296813	47.424	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.959	131	111333	47.853	ug/l	100
67) Ethyl Benzene	11.959	91	524655	52.405	ug/l	100
68) m/p-Xylenes	12.071	106	413470	105.075	ug/l	100
69) o-Xylene	12.394	106	195107	54.023	ug/l	100
70) Styrene	12.406	104	333544	54.070	ug/l	100
71) Bromoform	12.577	173	94268	48.469	ug/l #	100
73) Isopropylbenzene	12.694	105	496368	52.708	ug/l	100
74) N-amyl acetate	12.494	43	168199	53.384	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.935	83	145034	45.522	ug/l	100
76) 1,2,3-Trichloropropane	12.988	75	159517m	50.737	ug/l	
77) Bromobenzene	12.976	156	125436	47.769	ug/l	100
78) n-propylbenzene	13.035	91	576797	54.089	ug/l	100
79) 2-Chlorotoluene	13.124	91	361320	51.012	ug/l	100
80) 1,3,5-Trimethylbenzene	13.171	105	430051	54.088	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	57082	48.881	ug/l	100
82) 4-Chlorotoluene	13.218	91	371739	51.036	ug/l	100
83) tert-Butylbenzene	13.435	119	351295	51.660	ug/l	100
84) 1,2,4-Trimethylbenzene	13.476	105	431645	53.825	ug/l	100
85) sec-Butylbenzene	13.612	105	484551	54.622	ug/l	100
86) p-Isopropyltoluene	13.729	119	418830	55.774	ug/l	100
87) 1,3-Dichlorobenzene	13.729	146	232357	49.090	ug/l	100
88) 1,4-Dichlorobenzene	13.812	146	229820	46.213	ug/l	100
89) n-Butylbenzene	14.053	91	334309	54.669	ug/l	100
90) Hexachloroethane	14.329	117	80312	46.350	ug/l	100
91) 1,2-Dichlorobenzene	14.106	146	220326	46.825	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.718	75	30533	48.010	ug/l	100
93) 1,2,4-Trichlorobenzene	15.388	180	117285	49.573	ug/l	100
94) Hexachlorobutadiene	15.500	225	60983	44.428	ug/l	100
95) Naphthalene	15.641	128	359331	52.451	ug/l	100
96) 1,2,3-Trichlorobenzene	15.835	180	114262	50.897	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031825\
Data File : VN085997.D
Acq On : 18 Mar 2025 12:08
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 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025

Quant Time: Mar 19 02:53:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 19 02:30:27 2025
Response via : Initial Calibration

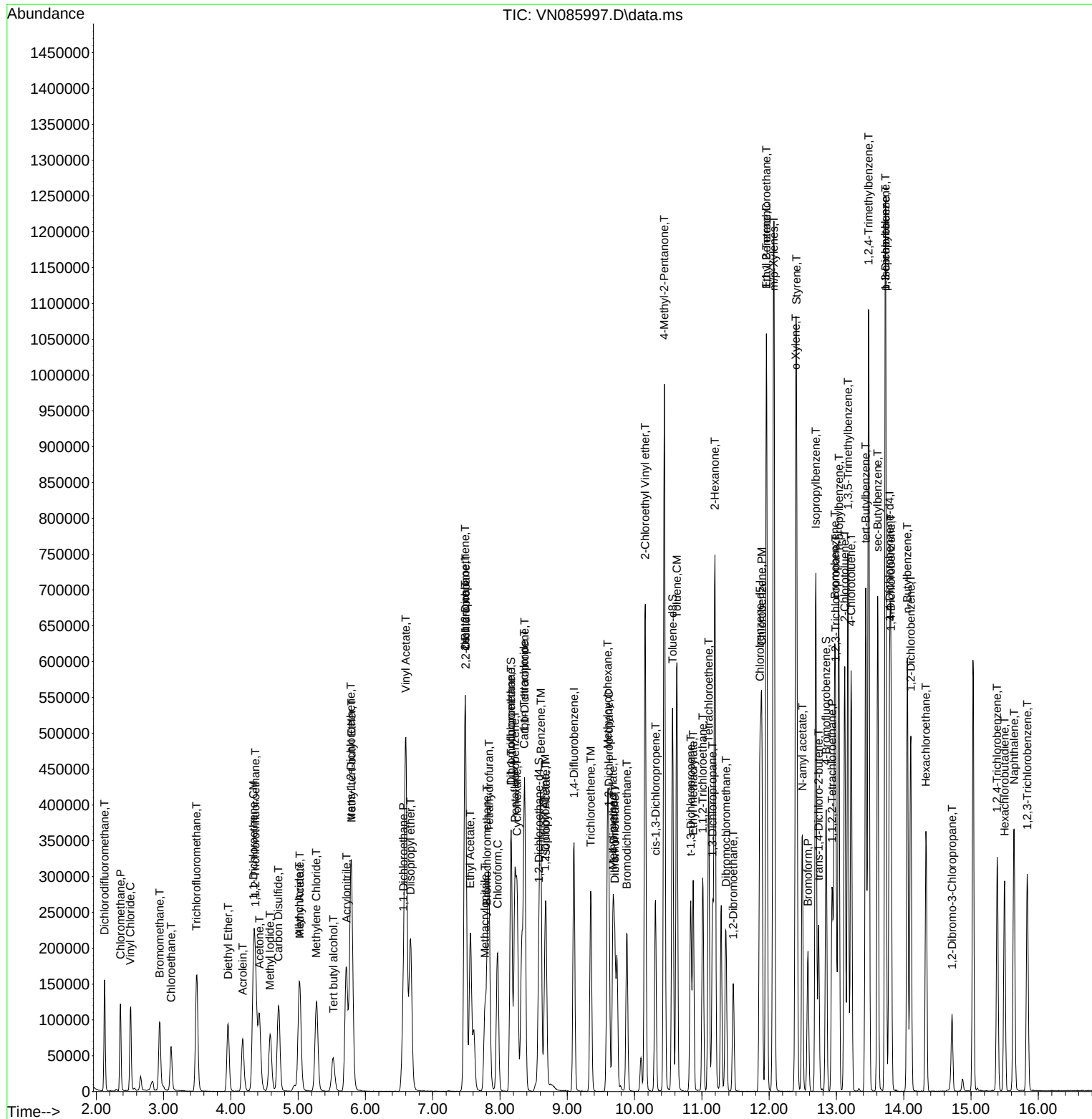
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

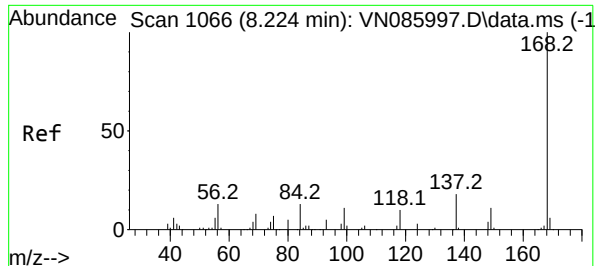
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations

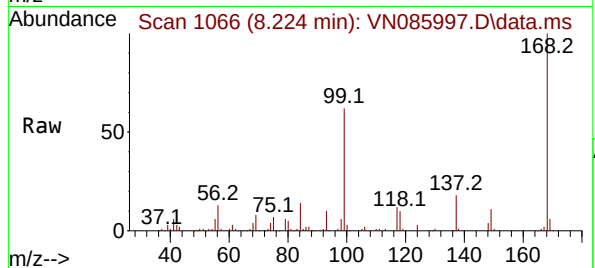
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN085997.D
Acq: 18 Mar 2025 12:08

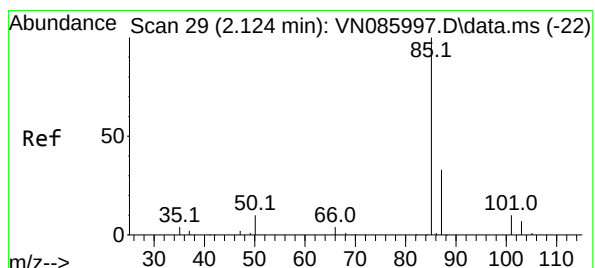
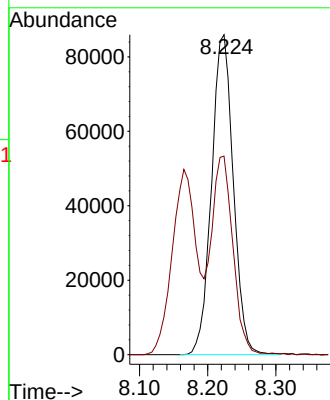
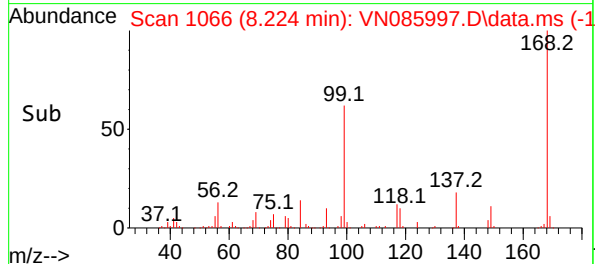
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



Tgt Ion:168 Resp: 191040
Ion Ratio Lower Upper
168 100
99 61.8 49.4 74.2

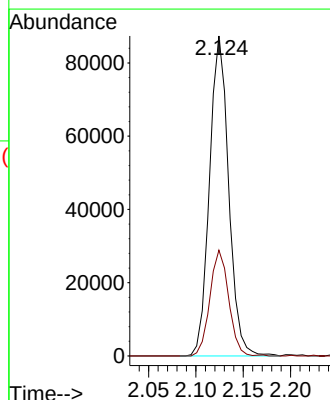
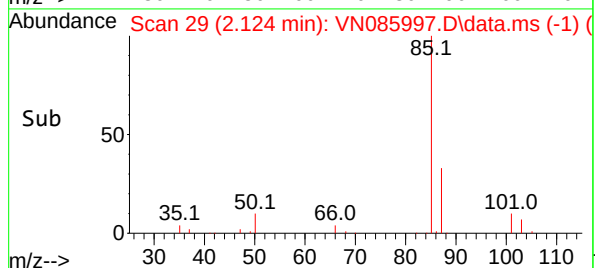
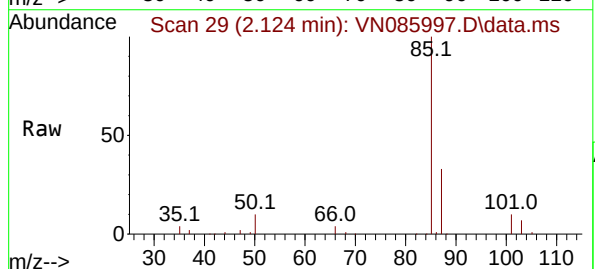
Manual Integrations
APPROVED

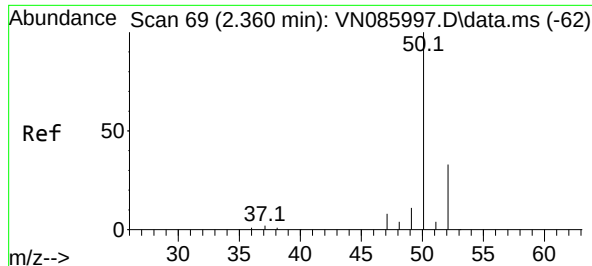
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#2
Dichlorodifluoromethane
Concen: 48.549 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN085997.D
Acq: 18 Mar 2025 12:08

Tgt Ion: 85 Resp: 122875
Ion Ratio Lower Upper
85 100
87 33.0 16.5 49.5





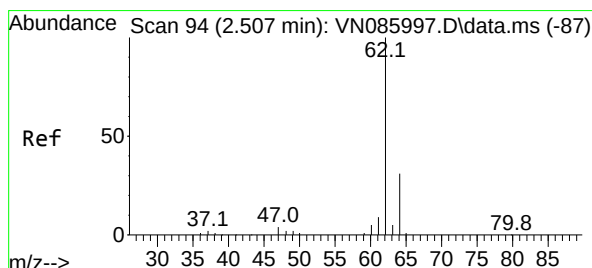
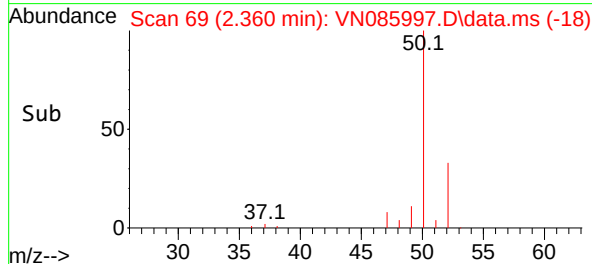
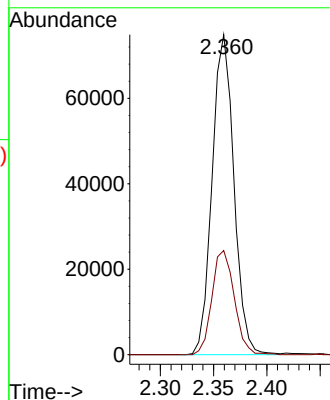
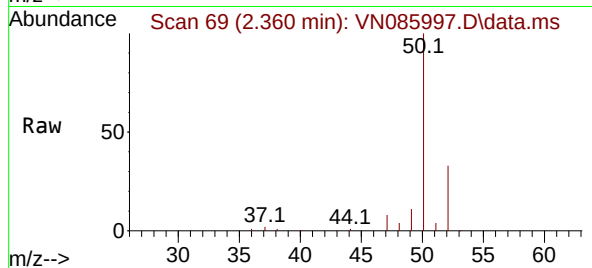
#3
Chloromethane
Concen: 47.928 ug/l
RT: 2.360 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN085997.D
Acq: 18 Mar 2025 12:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 50 Resp: 10634
Ion Ratio Lower Upper
50 100
52 32.5 26.0 39.0

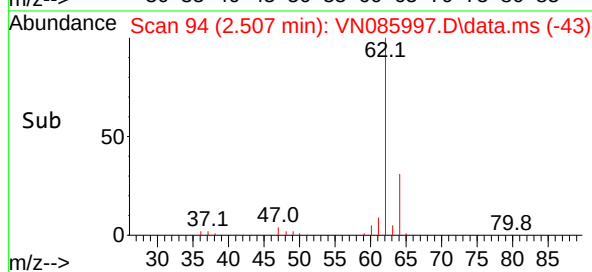
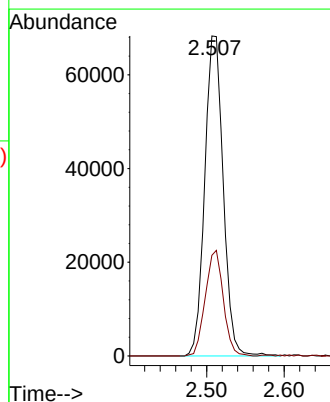
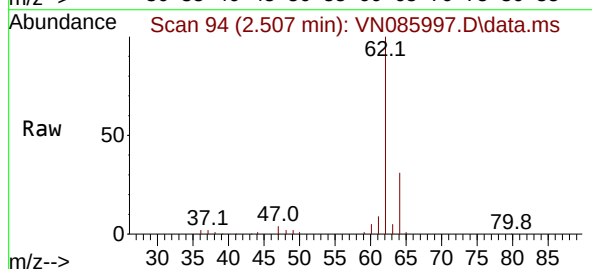
Manual Integrations
APPROVED

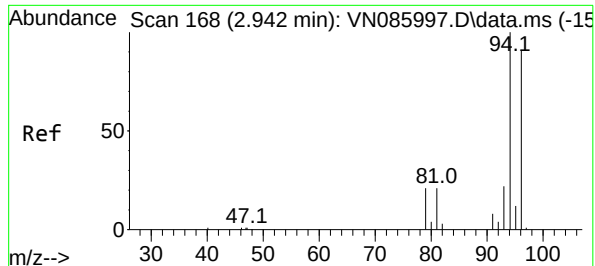
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#4
Vinyl Chloride
Concen: 49.880 ug/l
RT: 2.507 min Scan# 94
Delta R.T. 0.000 min
Lab File: VN085997.D
Acq: 18 Mar 2025 12:08

Tgt Ion: 62 Resp: 113163
Ion Ratio Lower Upper
62 100
64 31.5 25.2 37.8





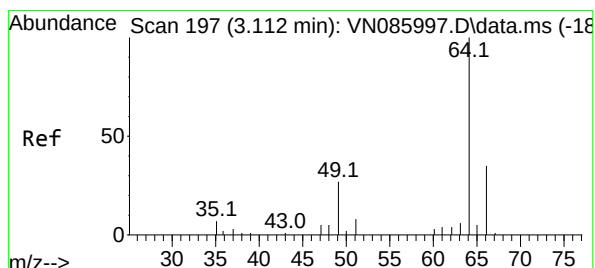
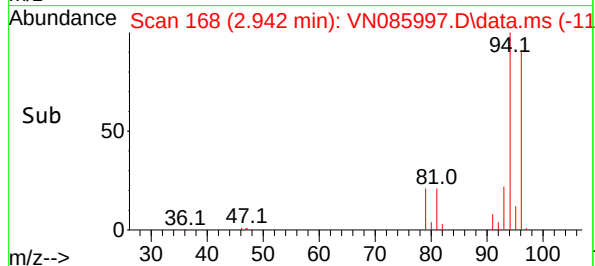
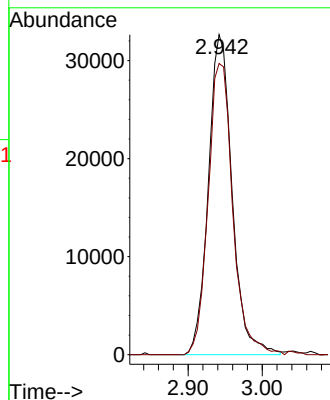
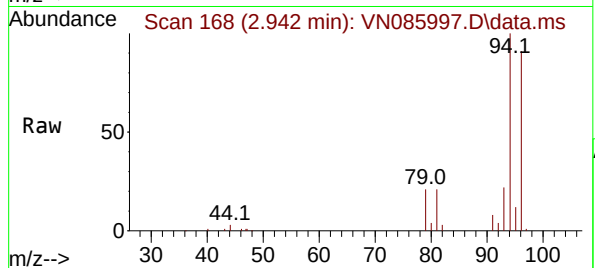
#5
Bromomethane
Concen: 47.103 ug/l
RT: 2.942 min Scan# 168
Delta R.T. 0.000 min
Lab File: VN085997.D
Acq: 18 Mar 2025 12:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 94 Resp: 7279
Ion Ratio Lower Upper
94 100
96 91.0 72.8 109.2

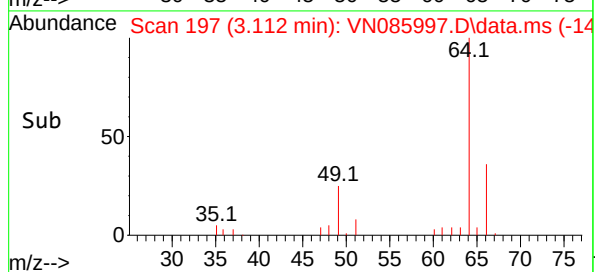
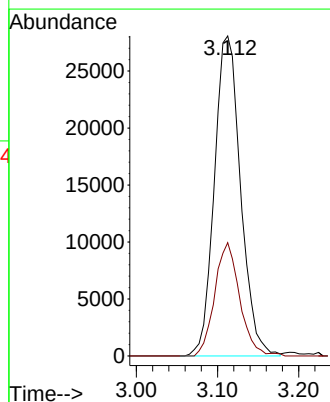
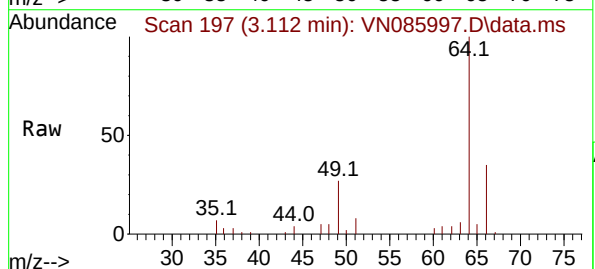
Manual Integrations
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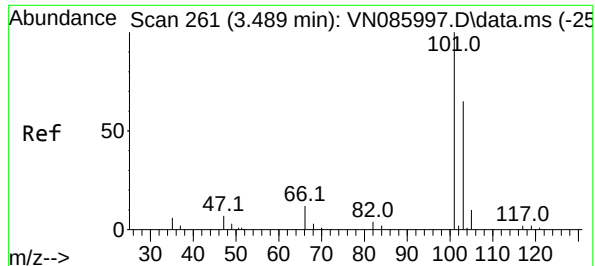
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#6
Chloroethane
Concen: 44.072 ug/l
RT: 3.112 min Scan# 197
Delta R.T. 0.000 min
Lab File: VN085997.D
Acq: 18 Mar 2025 12:08

Tgt Ion: 64 Resp: 63077
Ion Ratio Lower Upper
64 100
66 35.4 28.3 42.5





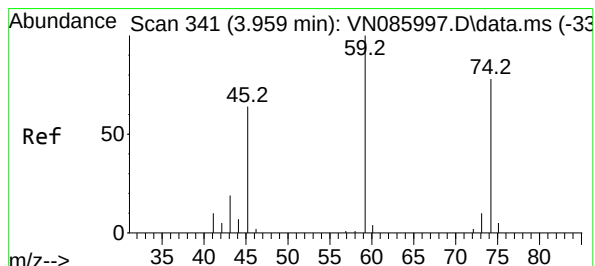
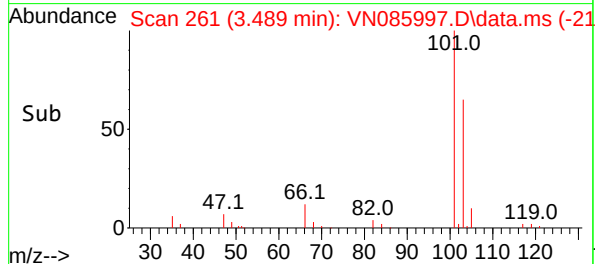
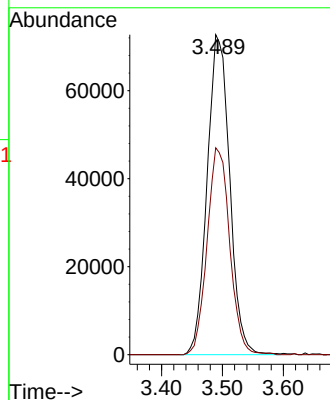
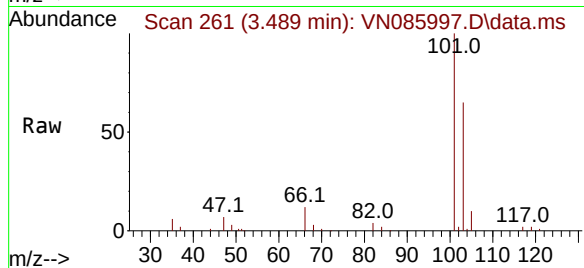
#7
Trichlorofluoromethane
Concen: 45.774 ug/l
RT: 3.489 min Scan# 261
Delta R.T. 0.000 min
Lab File: VN085997.D
Acq: 18 Mar 2025 12:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion:101 Resp: 186678
Ion Ratio Lower Upper
101 100
103 64.6 51.7 77.5

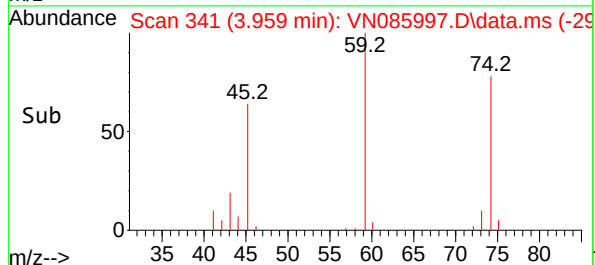
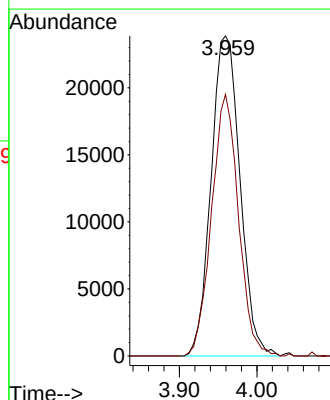
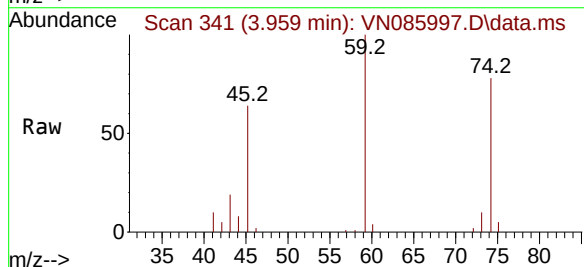
Manual Integrations
APPROVED

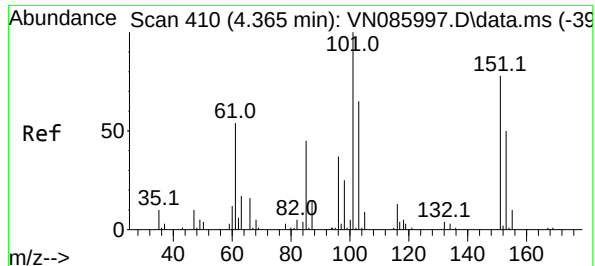
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#8
Diethyl Ether
Concen: 49.647 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.000 min
Lab File: VN085997.D
Acq: 18 Mar 2025 12:08

Tgt Ion: 74 Resp: 61984
Ion Ratio Lower Upper
74 100
45 75.9 38.0 113.9





#9

1,1,2-Trichlorotrifluoroethane

Concen: 45.380 ug/l

RT: 4.365 min Scan# 410

Delta R.T. 0.000 min

Lab File: VN085997.D

Acq: 18 Mar 2025 12:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion:101 Resp: 9836

Ion Ratio Lower Upper

101 100

85 45.6 36.5 54.7

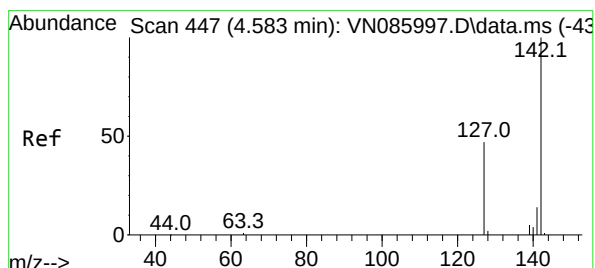
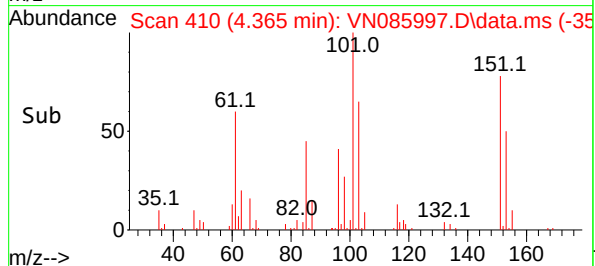
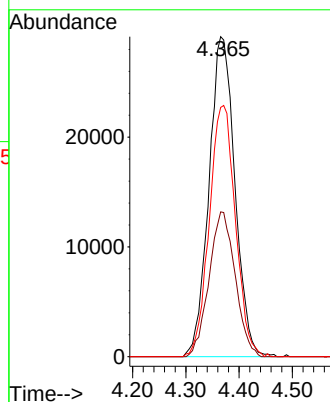
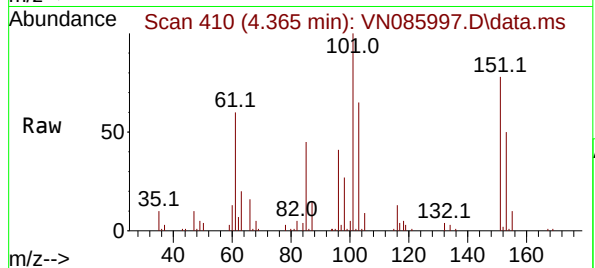
151 79.2 63.4 95.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#10

Methyl Iodide

Concen: 49.232 ug/l

RT: 4.583 min Scan# 447

Delta R.T. 0.000 min

Lab File: VN085997.D

Acq: 18 Mar 2025 12:08

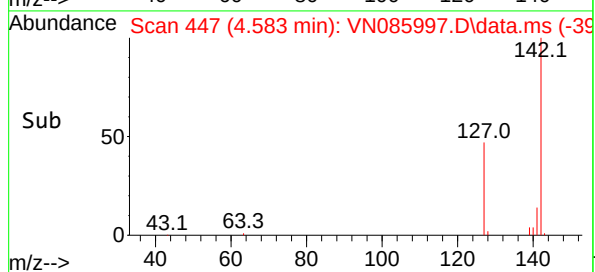
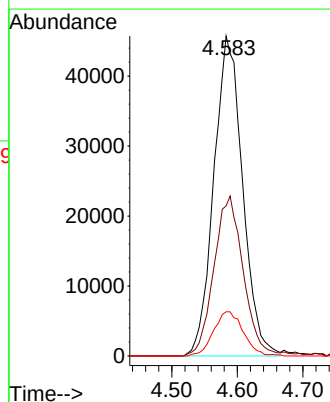
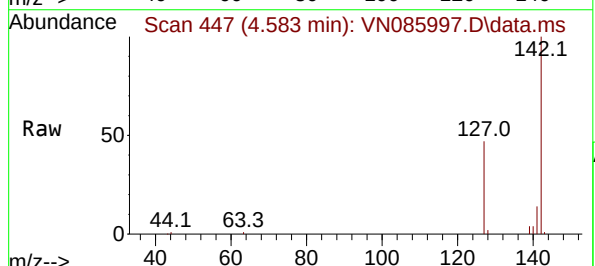
Tgt Ion:142 Resp: 139044

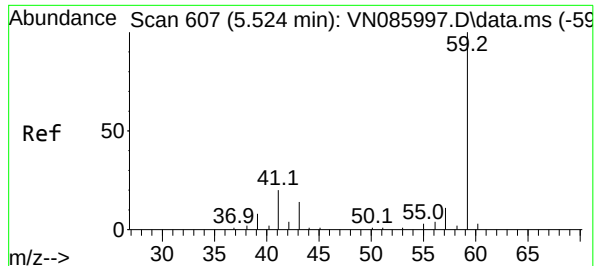
Ion Ratio Lower Upper

142 100

127 46.9 37.5 56.3

141 13.8 11.0 16.6





#11

Tert butyl alcohol

Concen: 243.082 ug/l

RT: 5.524 min Scan# 607

Delta R.T. 0.000 min

Lab File: VN085997.D

Acq: 18 Mar 2025 12:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 59 Resp: 9003

Ion Ratio Lower Upper

59 100

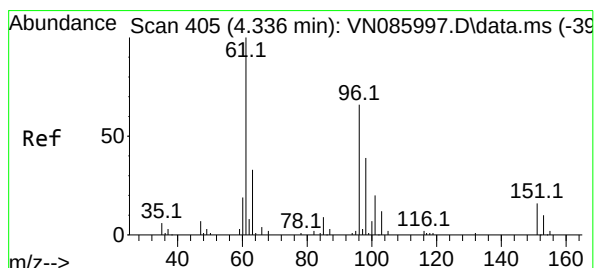
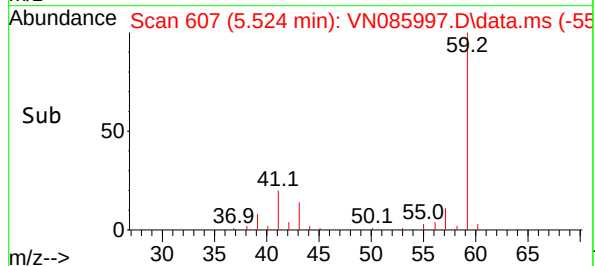
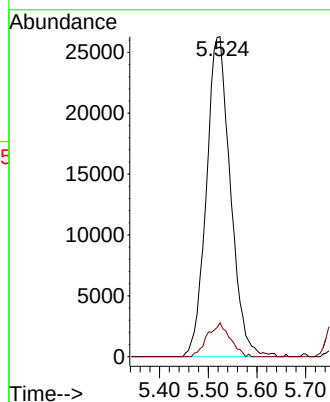
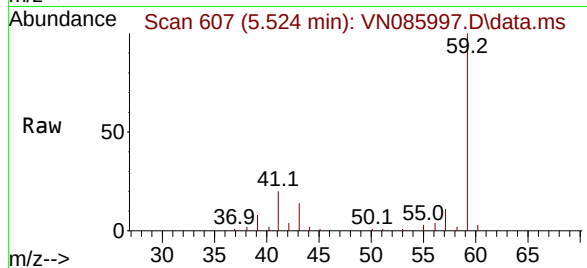
57 9.9 7.9 11.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#12

1,1-Dichloroethene

Concen: 50.369 ug/l

RT: 4.336 min Scan# 405

Delta R.T. 0.000 min

Lab File: VN085997.D

Acq: 18 Mar 2025 12:08

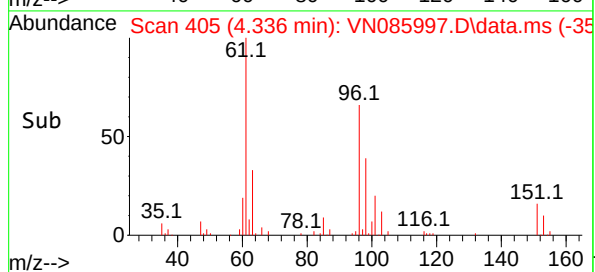
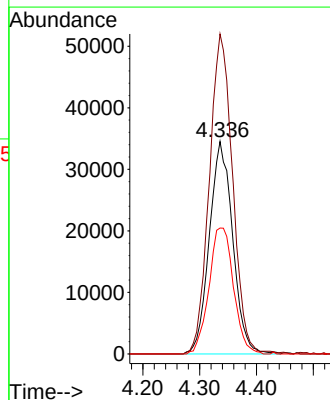
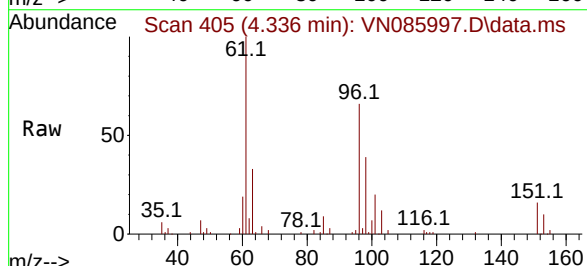
Tgt Ion: 96 Resp: 98583

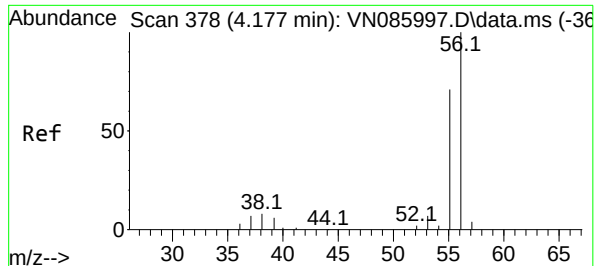
Ion Ratio Lower Upper

96 100

61 150.6 120.5 180.7

98 59.2 47.4 71.0





#13

Acrolein

Concen: 241.241 ug/l

RT: 4.177 min Scan# 378

Delta R.T. 0.000 min

Lab File: VN085997.D

Acq: 18 Mar 2025 12:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 56 Resp: 95299

Ion Ratio Lower Upper

56 100

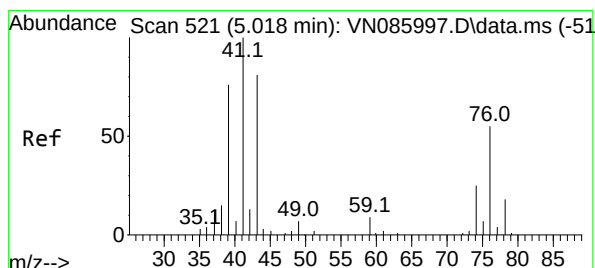
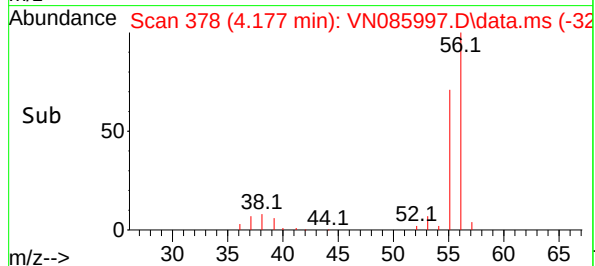
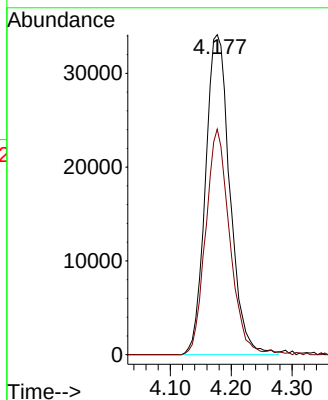
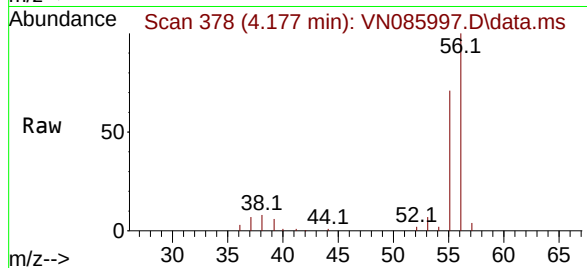
55 68.9 55.1 82.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#14

Allyl chloride

Concen: 48.265 ug/l

RT: 5.018 min Scan# 521

Delta R.T. 0.000 min

Lab File: VN085997.D

Acq: 18 Mar 2025 12:08

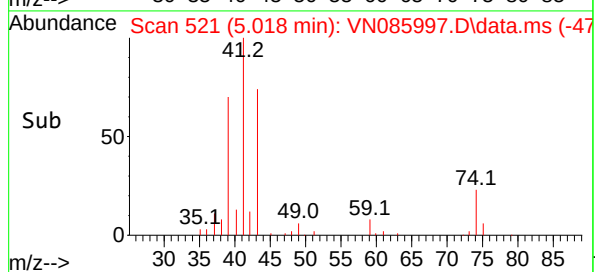
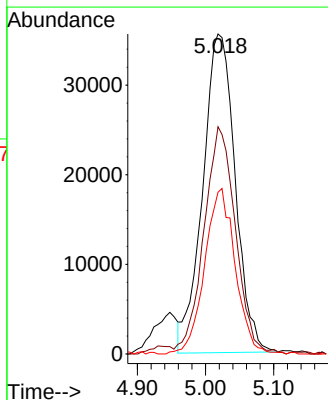
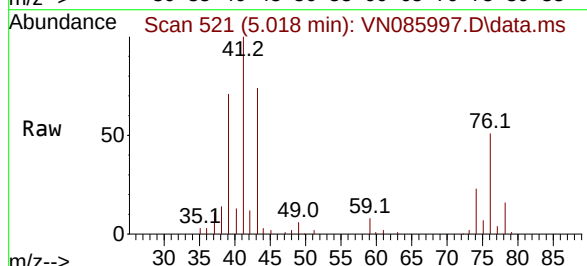
Tgt Ion: 41 Resp: 117849

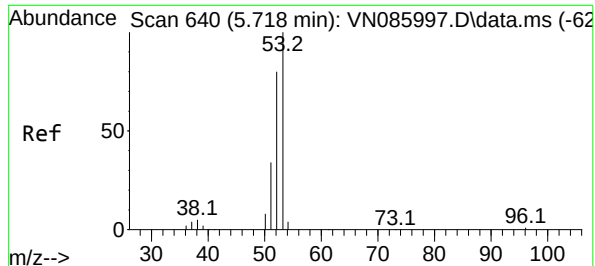
Ion Ratio Lower Upper

41 100

39 69.4 55.5 83.3

76 48.9 39.1 58.7





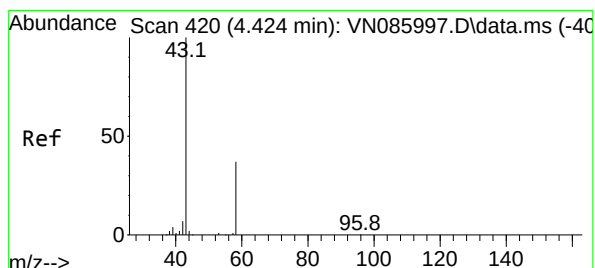
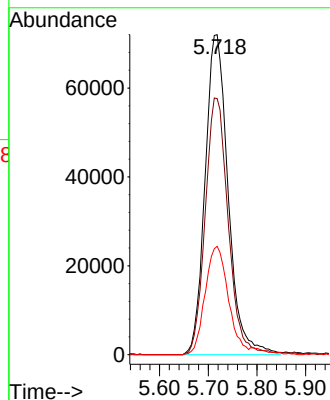
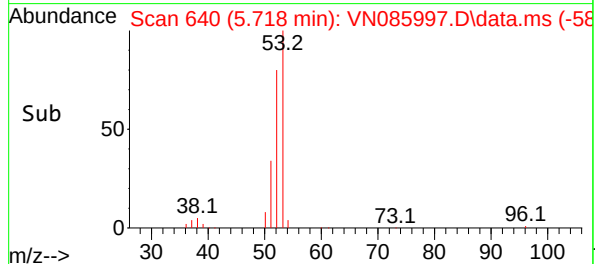
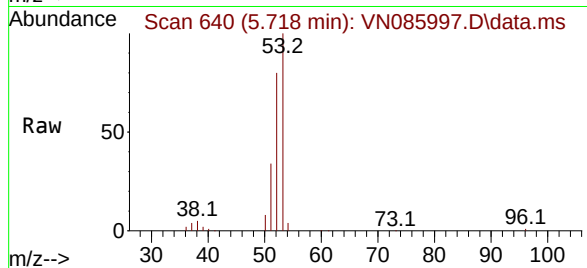
#15
Acrylonitrile
Concen: 241.896 ug/l
RT: 5.718 min Scan# 640
Delta R.T. 0.000 min
Lab File: VN085997.D
Acq: 18 Mar 2025 12:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 53 Resp: 236614
Ion Ratio Lower Upper
53 100
52 79.9 63.9 95.9
51 33.9 27.1 40.7

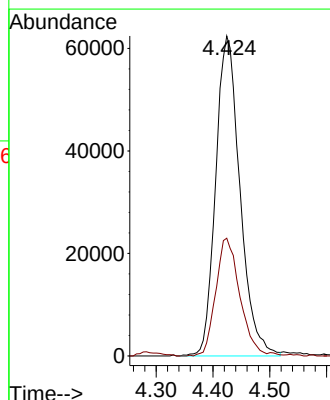
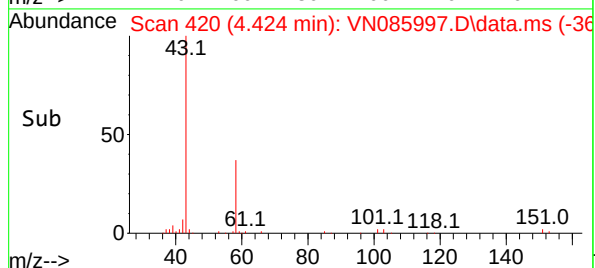
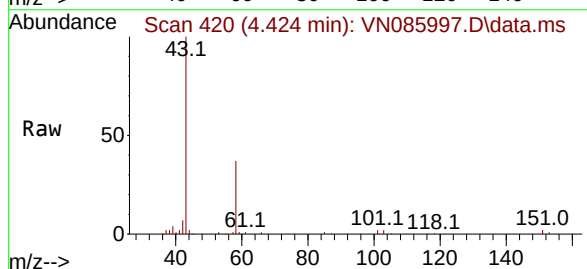
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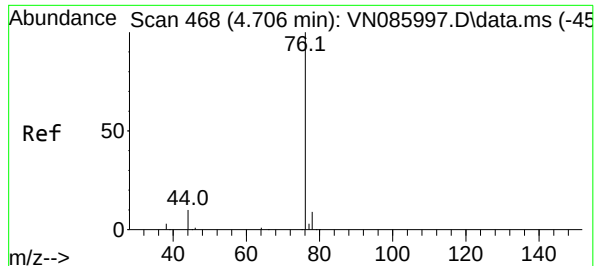
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#16
Acetone
Concen: 232.246 ug/l
RT: 4.424 min Scan# 420
Delta R.T. 0.000 min
Lab File: VN085997.D
Acq: 18 Mar 2025 12:08

Tgt Ion: 43 Resp: 185613
Ion Ratio Lower Upper
43 100
58 36.8 29.4 44.2





#17

Carbon Disulfide

Concen: 44.810 ug/l

RT: 4.706 min Scan# 468

Delta R.T. 0.000 min

Lab File: VN085997.D

Acq: 18 Mar 2025 12:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 76 Resp: 288424

Ion Ratio Lower Upper

76 100

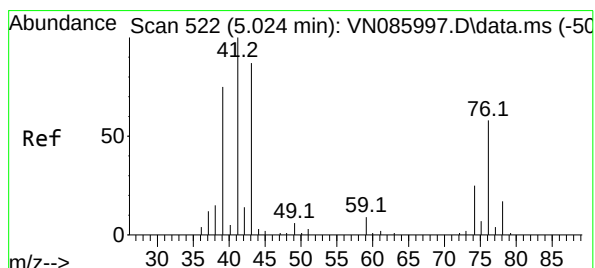
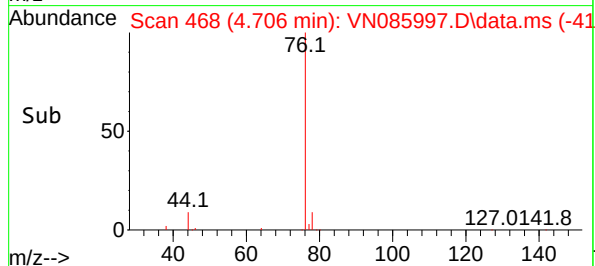
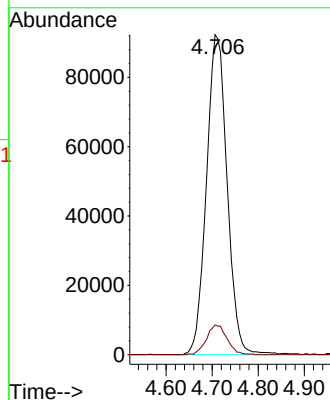
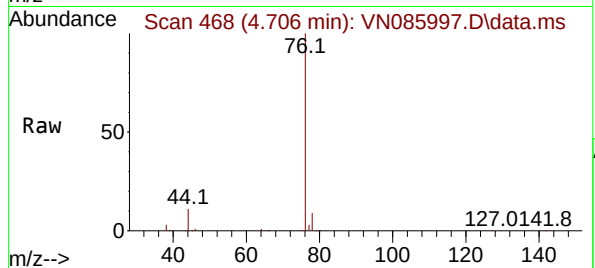
78 9.3 7.4 11.2

Manual Integrations

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Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#18

Methyl Acetate

Concen: 45.288 ug/l

RT: 5.024 min Scan# 522

Delta R.T. 0.000 min

Lab File: VN085997.D

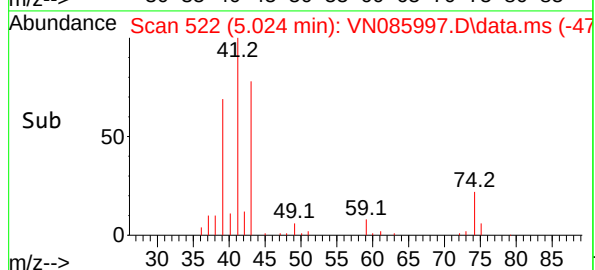
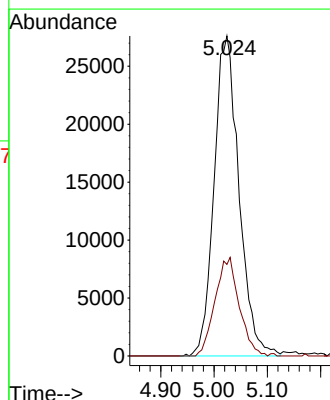
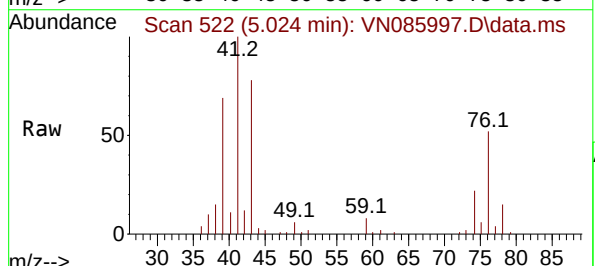
Acq: 18 Mar 2025 12:08

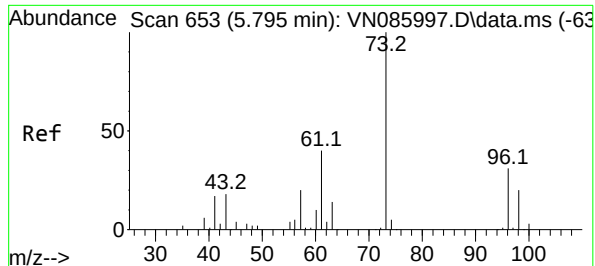
Tgt Ion: 43 Resp: 89551

Ion Ratio Lower Upper

43 100

74 29.9 23.9 35.9





#19

Methyl tert-butyl Ether

Concen: 50.377 ug/l

RT: 5.795 min Scan# 653

Delta R.T. 0.000 min

Lab File: VN085997.D

Acq: 18 Mar 2025 12:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 73 Resp: 32309

Ion Ratio Lower Upper

73 100

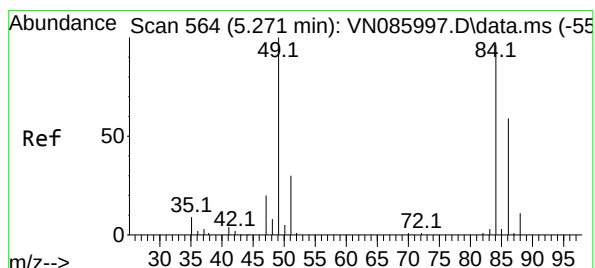
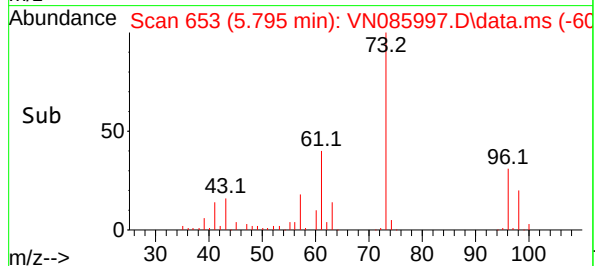
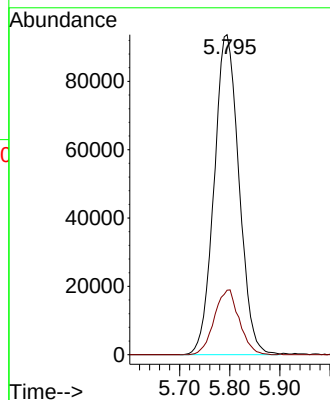
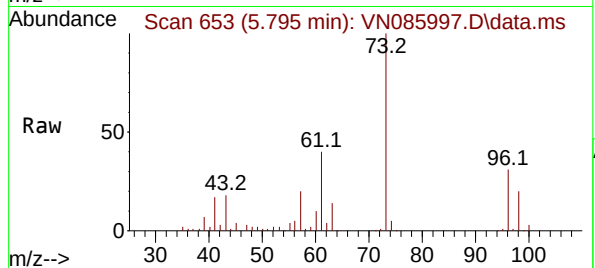
57 20.1 16.1 24.1

Manual Integrations

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Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#20

Methylene Chloride

Concen: 46.158 ug/l

RT: 5.271 min Scan# 564

Delta R.T. 0.000 min

Lab File: VN085997.D

Acq: 18 Mar 2025 12:08

Tgt Ion: 84 Resp: 107918

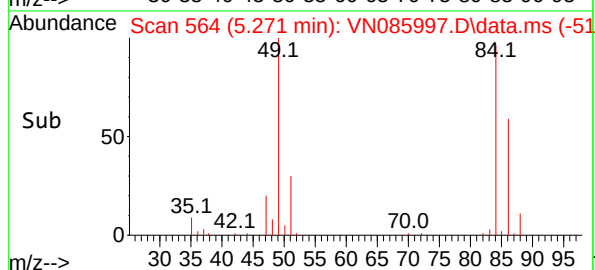
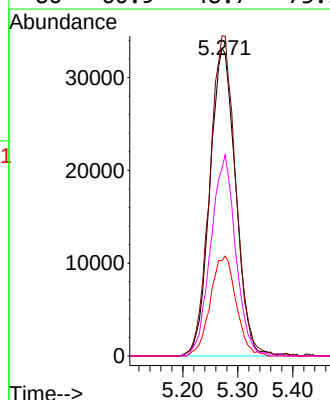
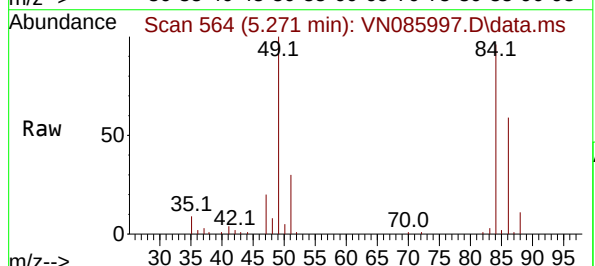
Ion Ratio Lower Upper

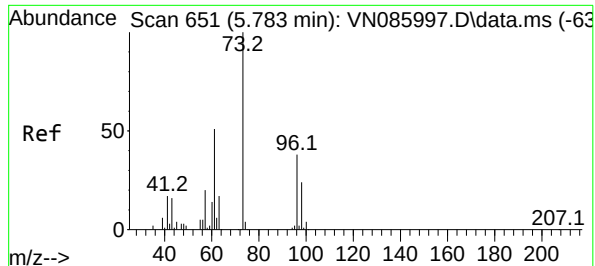
84 100

49 104.1 83.3 124.9

51 31.0 24.8 37.2

86 60.9 48.7 73.1





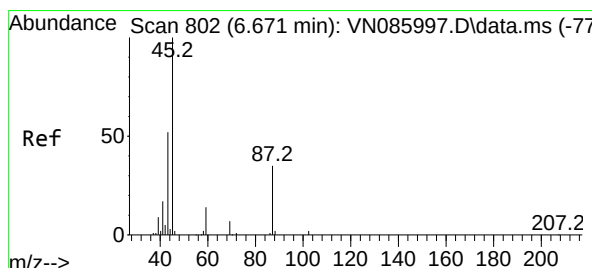
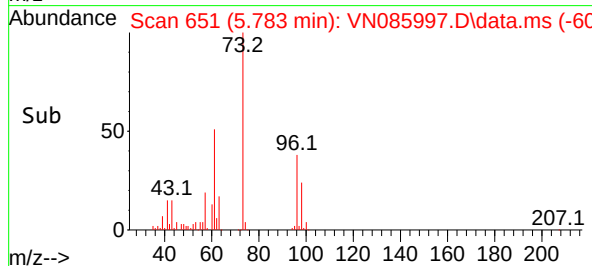
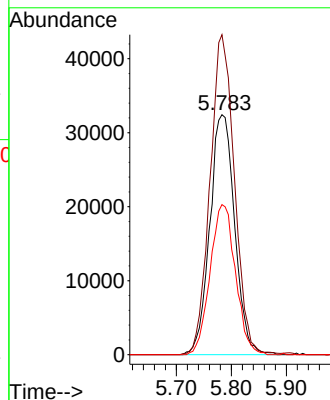
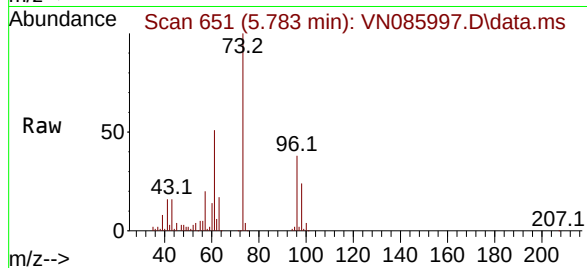
#21
trans-1,2-Dichloroethene
Concen: 47.670 ug/l
RT: 5.783 min Scan# 651
Delta R.T. 0.000 min
Lab File: VN085997.D
Acq: 18 Mar 2025 12:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 96 Resp: 10196
Ion Ratio Lower Upper
96 100
61 133.3 106.6 160.0
98 62.5 50.0 75.0

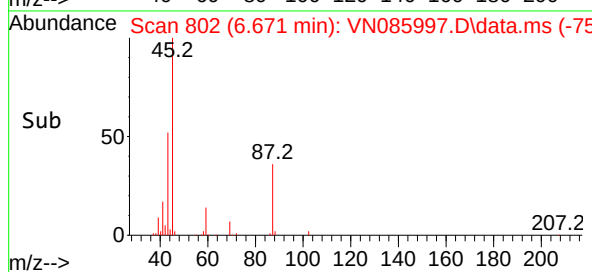
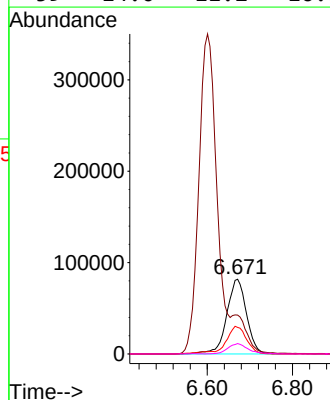
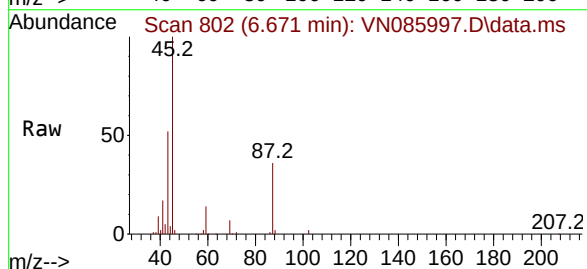
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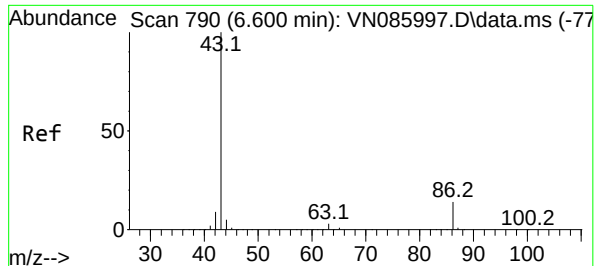
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#22
Diisopropyl ether
Concen: 50.597 ug/l
RT: 6.671 min Scan# 802
Delta R.T. 0.000 min
Lab File: VN085997.D
Acq: 18 Mar 2025 12:08

Tgt Ion: 45 Resp: 263272
Ion Ratio Lower Upper
45 100
43 51.5 41.2 61.8
87 35.6 28.5 42.7
59 14.0 11.2 16.8





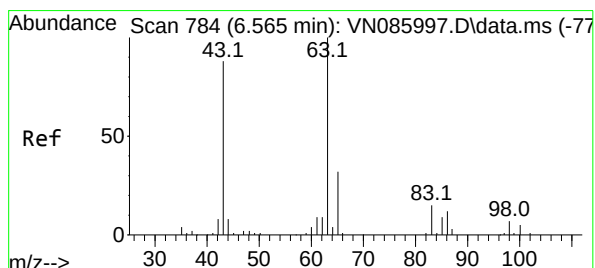
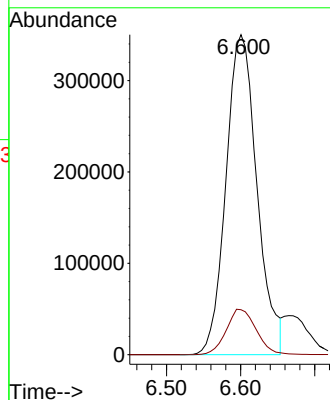
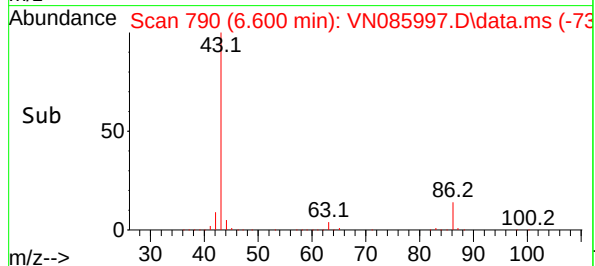
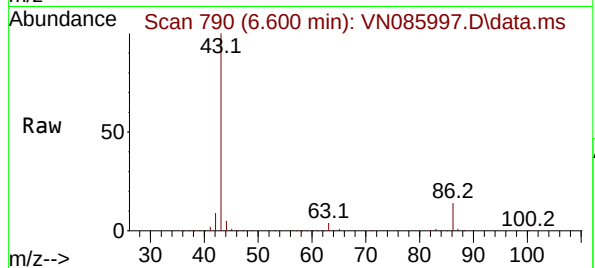
#23
Vinyl Acetate
Concen: 258.439 ug/l
RT: 6.600 min Scan# 790
Delta R.T. 0.000 min
Lab File: VN085997.D
Acq: 18 Mar 2025 12:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 1019460
Ion Ratio Lower Upper
43 100
86 14.0 11.2 16.8

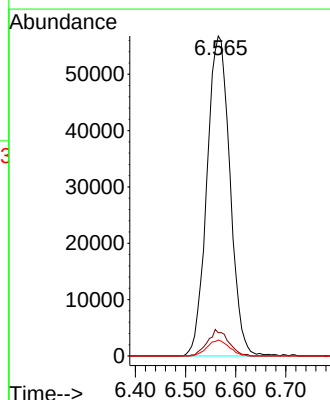
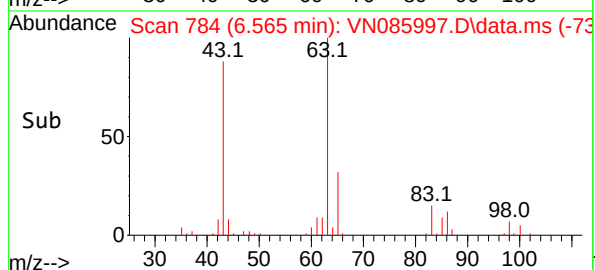
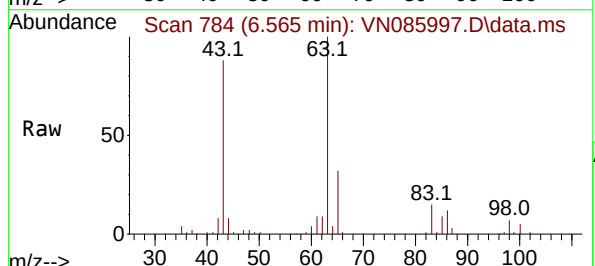
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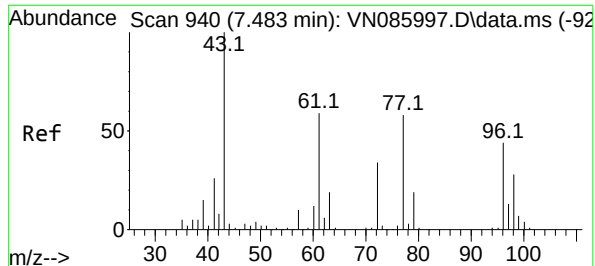
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#24
1,1-Dichloroethane
Concen: 47.361 ug/l
RT: 6.565 min Scan# 784
Delta R.T. 0.000 min
Lab File: VN085997.D
Acq: 18 Mar 2025 12:08

Tgt Ion: 63 Resp: 181215
Ion Ratio Lower Upper
63 100
98 7.3 3.6 10.9
100 5.0 2.5 7.5





#25

2-Butanone

Concen: 241.675 ug/l

RT: 7.483 min Scan# 940

Delta R.T. 0.000 min

Lab File: VN085997.D

Acq: 18 Mar 2025 12:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 27870

Ion Ratio Lower Upper

43 100

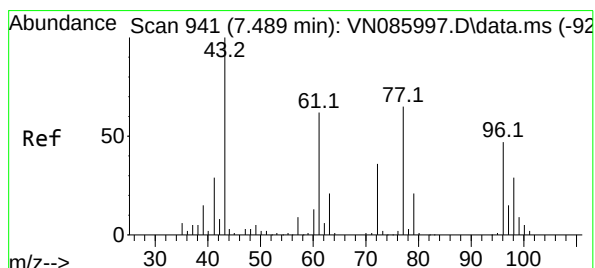
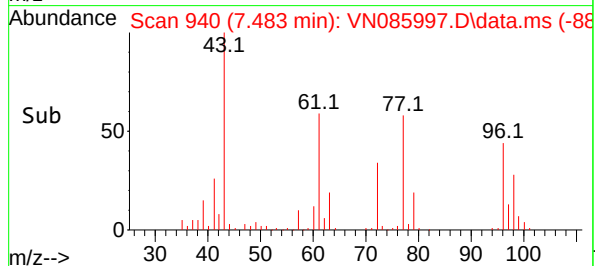
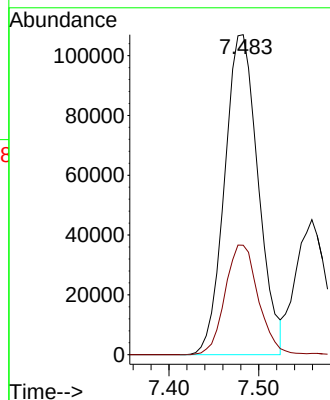
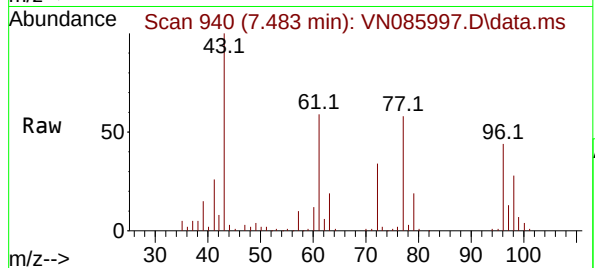
72 34.2 27.4 41.0

Manual Integrations

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Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#26

2,2-Dichloropropane

Concen: 48.036 ug/l

RT: 7.489 min Scan# 941

Delta R.T. 0.000 min

Lab File: VN085997.D

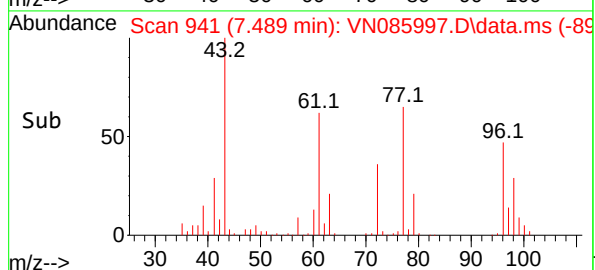
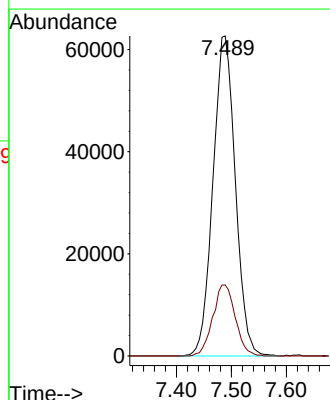
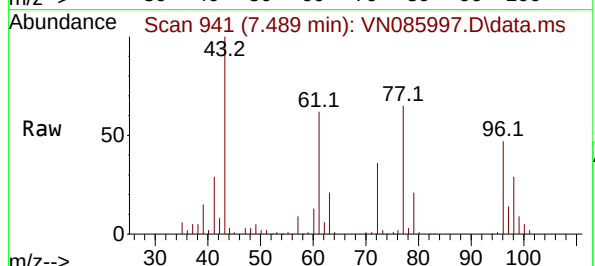
Acq: 18 Mar 2025 12:08

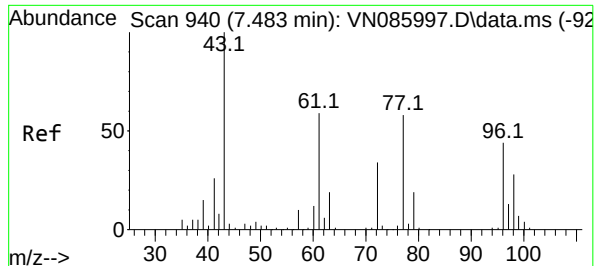
Tgt Ion: 77 Resp: 176949

Ion Ratio Lower Upper

77 100

97 22.3 11.2 33.5





#27

cis-1,2-Dichloroethene

Concen: 49.730 ug/l

RT: 7.483 min Scan# 940

Delta R.T. 0.000 min

Lab File: VN085997.D

Acq: 18 Mar 2025 12:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 96 Resp: 120874

Ion Ratio Lower Upper

96 100

61 136.4 0.0 272.8

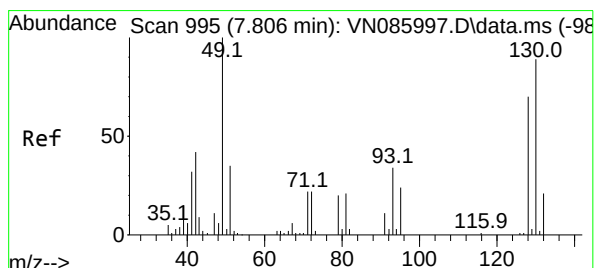
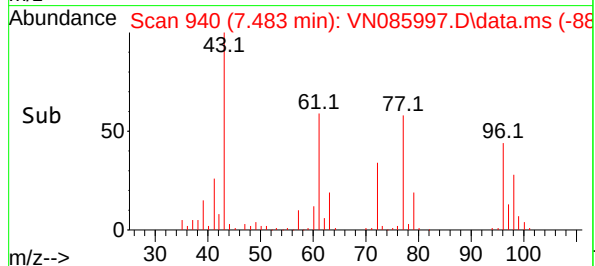
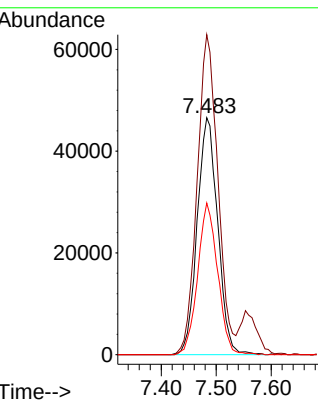
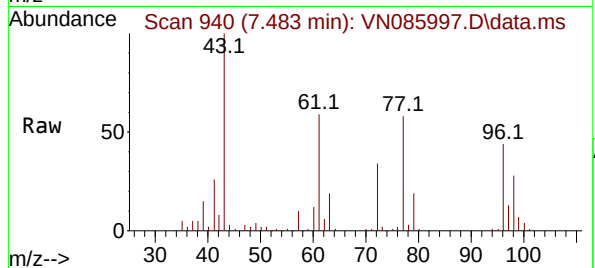
98 62.4 0.0 124.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#28

Bromochloromethane

Concen: 46.067 ug/l

RT: 7.806 min Scan# 995

Delta R.T. 0.000 min

Lab File: VN085997.D

Acq: 18 Mar 2025 12:08

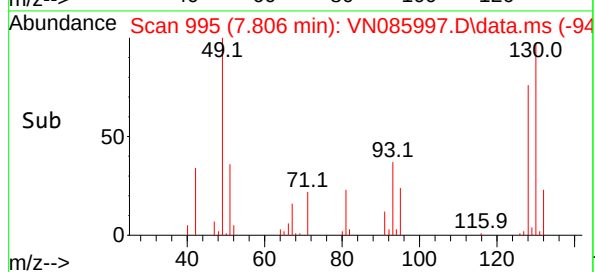
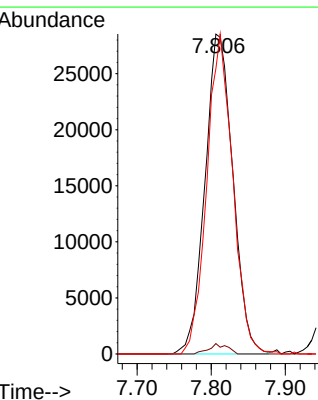
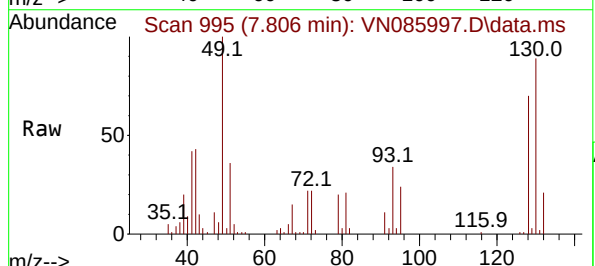
Tgt Ion: 49 Resp: 74679

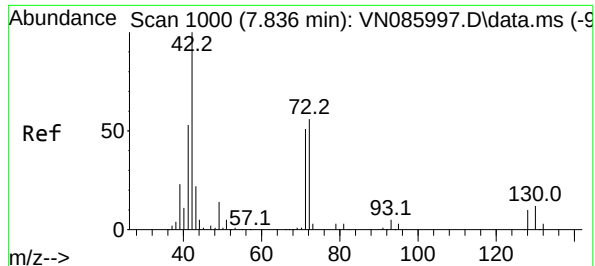
Ion Ratio Lower Upper

49 100

129 2.1 0.0 4.2

130 92.8 74.2 111.4





#29

Tetrahydrofuran

Concen: 260.140 ug/l

RT: 7.836 min Scan# 1000

Delta R.T. 0.000 min

Lab File: VN085997.D

Acq: 18 Mar 2025 12:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 42 Resp: 18520

Ion Ratio Lower Upper

42 100

72 56.2 45.0 67.4

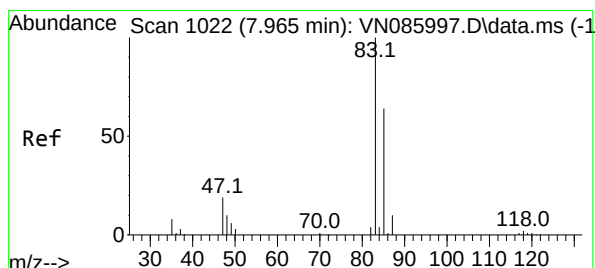
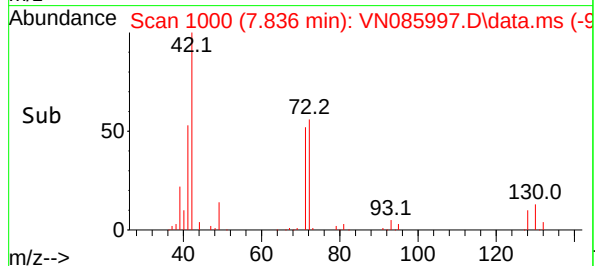
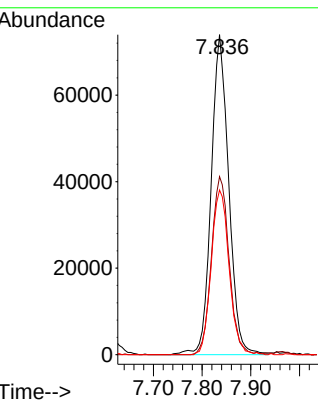
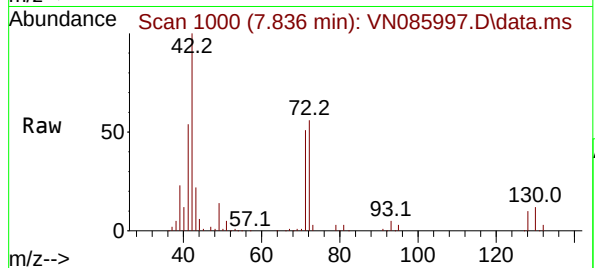
71 52.4 41.9 62.9

Manual Integrations

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Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#30

Chloroform

Concen: 45.948 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. 0.000 min

Lab File: VN085997.D

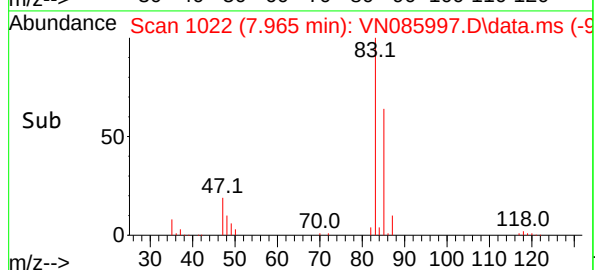
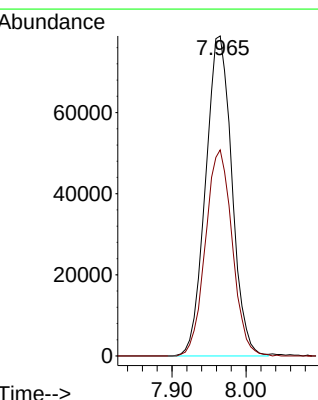
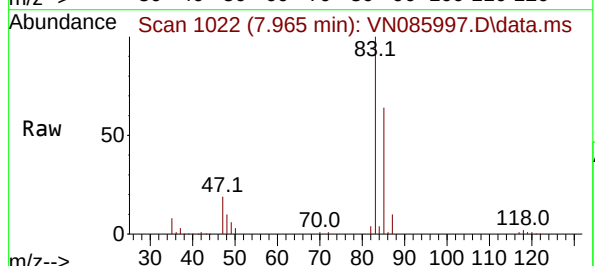
Acq: 18 Mar 2025 12:08

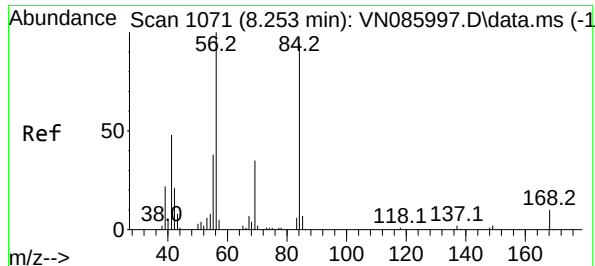
Tgt Ion: 83 Resp: 194324

Ion Ratio Lower Upper

83 100

85 64.4 51.5 77.3





#31

Cyclohexane

Concen: 46.831 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. 0.000 min

Lab File: VN085997.D

Acq: 18 Mar 2025 12:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 56 Resp: 15264

Ion Ratio Lower Upper

56 100

69 35.0 28.0 42.0

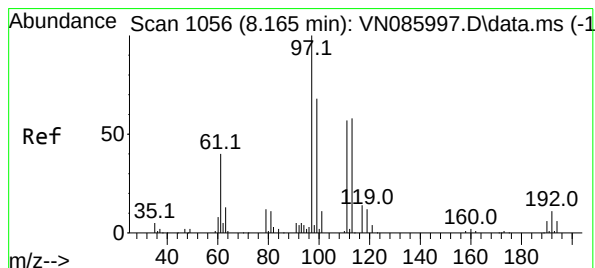
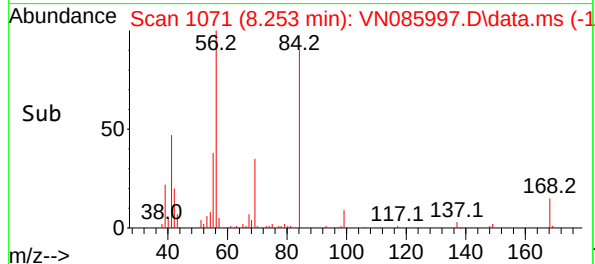
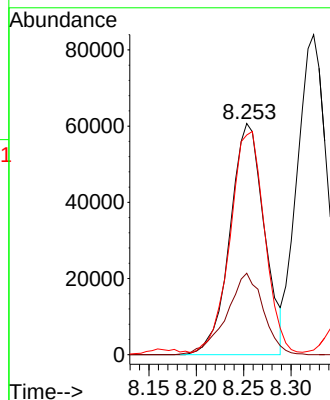
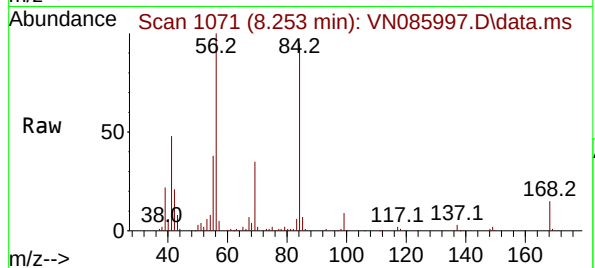
84 93.8 75.0 112.6

Manual Integrations

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Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#32

1,1,1-Trichloroethane

Concen: 47.032 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN085997.D

Acq: 18 Mar 2025 12:08

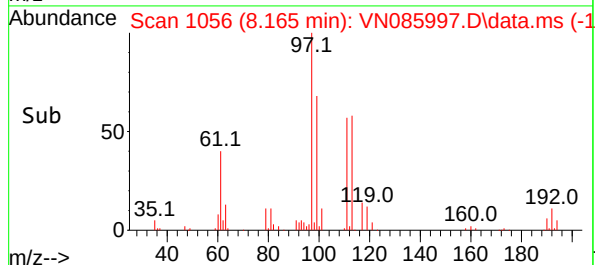
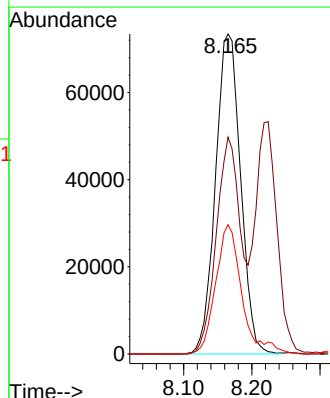
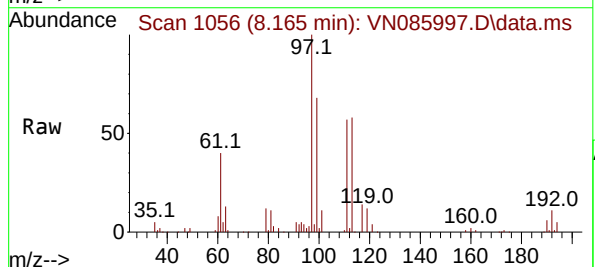
Tgt Ion: 97 Resp: 188288

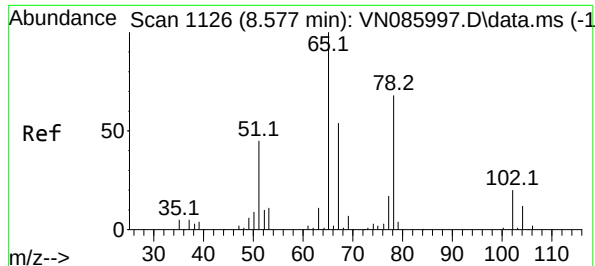
Ion Ratio Lower Upper

97 100

99 66.0 52.8 79.2

61 42.0 33.6 50.4





#33

1,2-Dichloroethane-d4

Concen: 48.559 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN085997.D

Acq: 18 Mar 2025 12:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 65 Resp: 127029

Ion Ratio Lower Upper

65 100

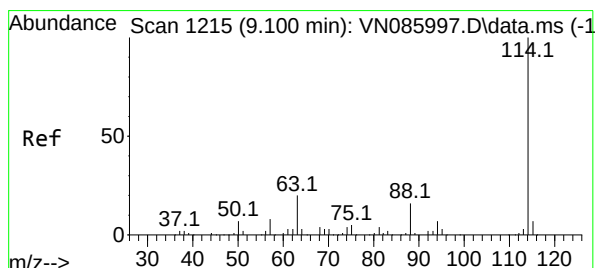
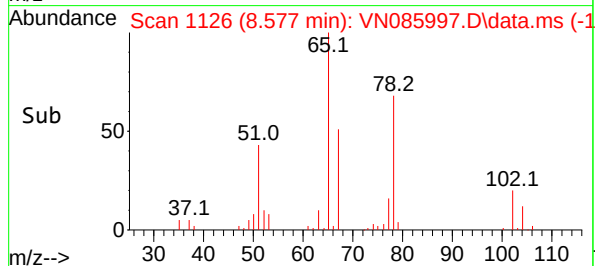
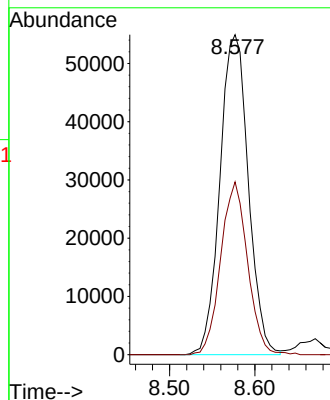
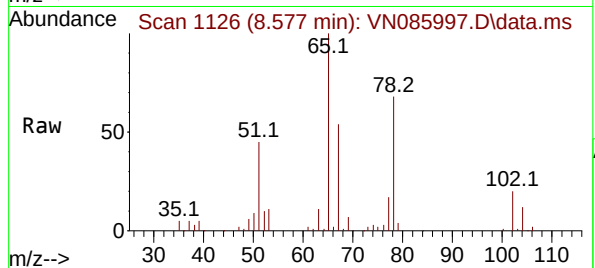
67 51.1 0.0 102.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN085997.D

Acq: 18 Mar 2025 12:08

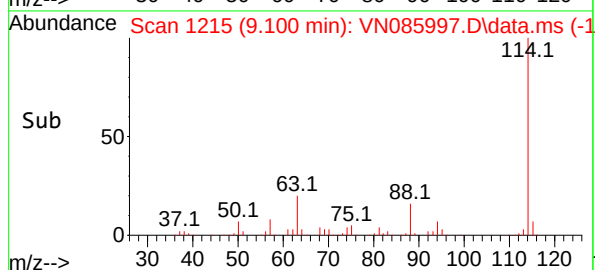
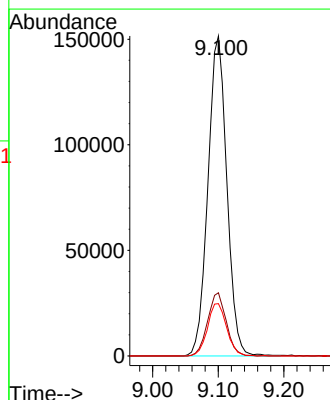
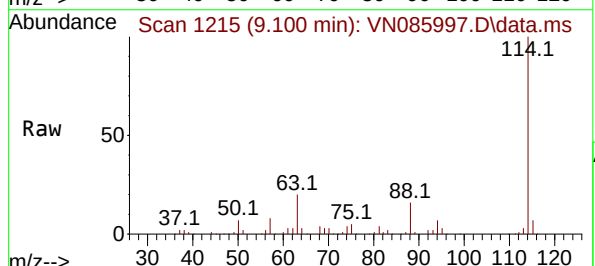
Tgt Ion:114 Resp: 303794

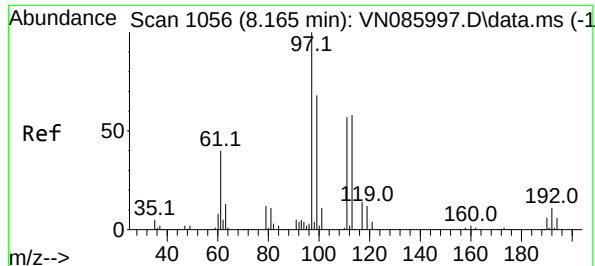
Ion Ratio Lower Upper

114 100

63 19.8 0.0 39.6

88 16.3 0.0 32.6





#35

Dibromofluoromethane

Concen: 47.910 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN085997.D

Acq: 18 Mar 2025 12:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion:113 Resp: 101590

Ion Ratio Lower Upper

113 100

111 102.3 81.8 122.8

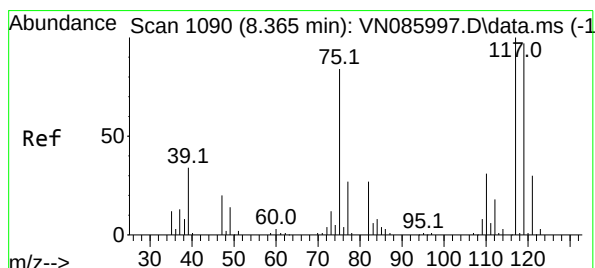
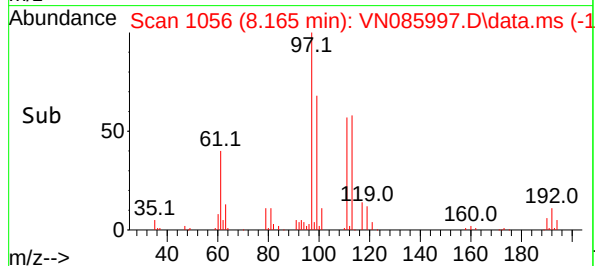
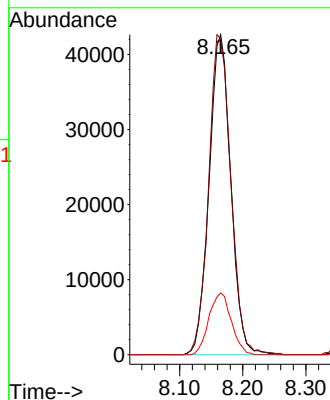
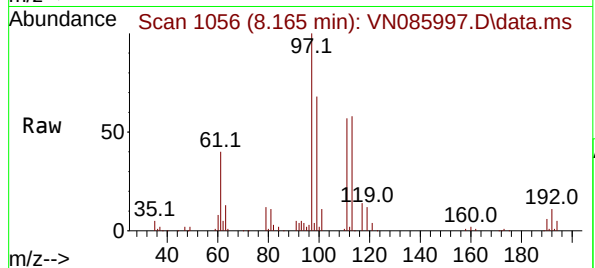
192 19.9 15.9 23.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#36

1,1-Dichloropropene

Concen: 49.422 ug/l

RT: 8.365 min Scan# 1090

Delta R.T. 0.000 min

Lab File: VN085997.D

Acq: 18 Mar 2025 12:08

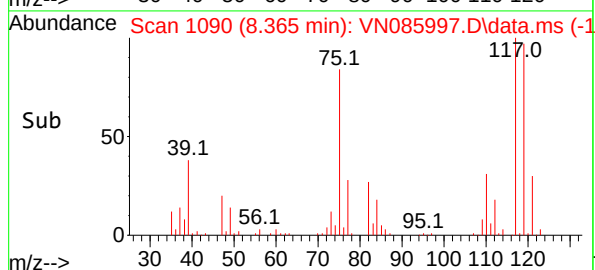
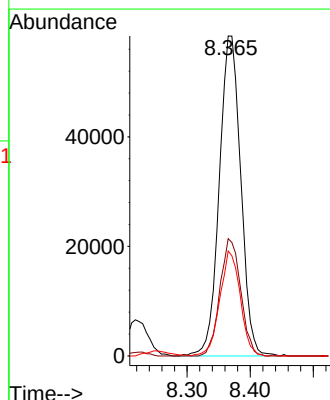
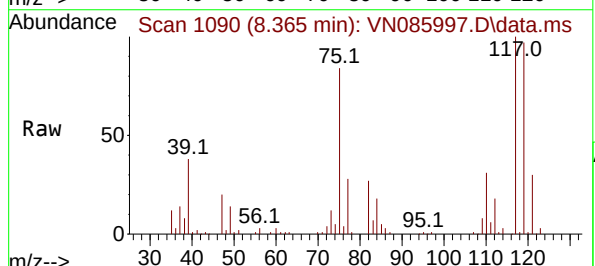
Tgt Ion: 75 Resp: 137990

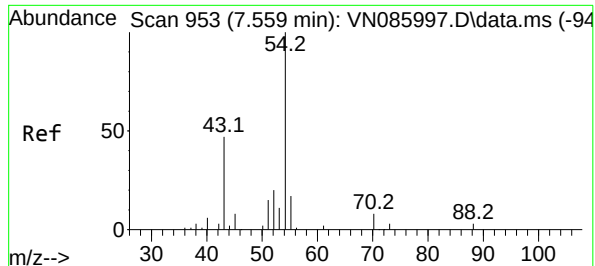
Ion Ratio Lower Upper

75 100

110 35.5 17.8 53.3

77 31.2 25.0 37.4





#37

Ethyl Acetate

Concen: 47.350 ug/l

RT: 7.559 min Scan# 91

Delta R.T. 0.000 min

Lab File: VN085997.D

Acq: 18 Mar 2025 12:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 11153

Ion Ratio Lower Upper

43 100

61 16.2 13.0 19.4

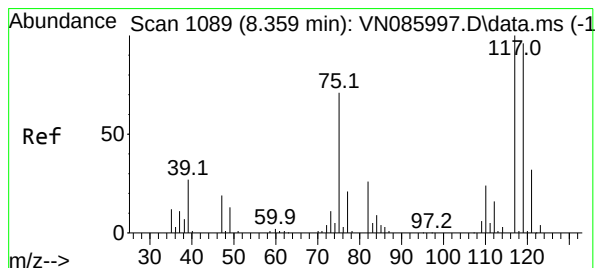
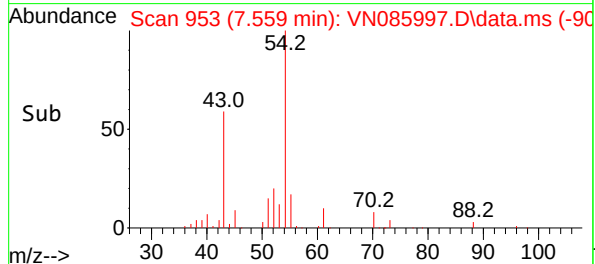
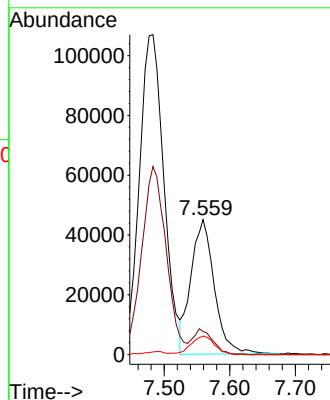
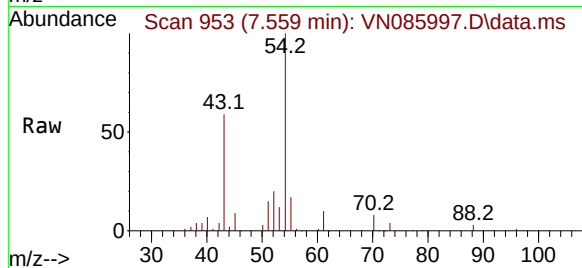
70 13.8 11.0 16.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#38

Carbon Tetrachloride

Concen: 47.847 ug/l

RT: 8.359 min Scan# 1089

Delta R.T. 0.000 min

Lab File: VN085997.D

Acq: 18 Mar 2025 12:08

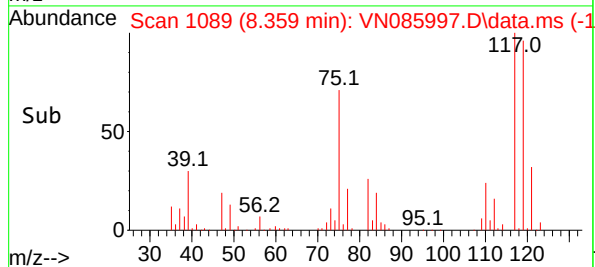
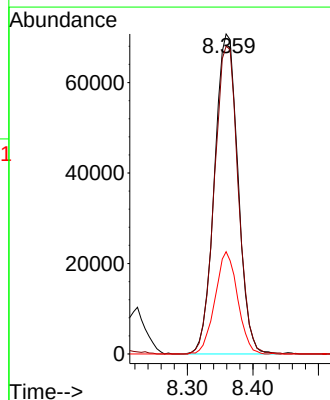
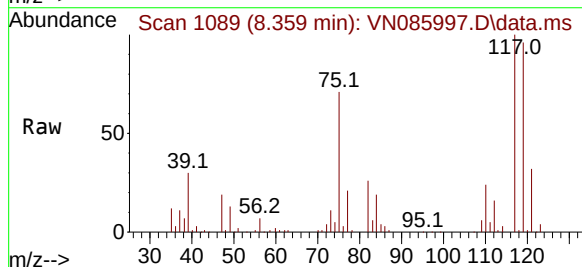
Tgt Ion:117 Resp: 175652

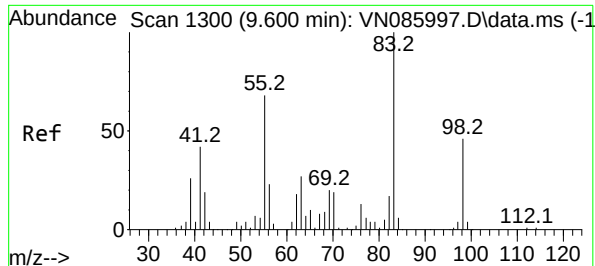
Ion Ratio Lower Upper

117 100

119 96.2 77.0 115.4

121 32.0 25.6 38.4





#39

Methylcyclohexane

Concen: 52.126 ug/l

RT: 9.600 min Scan# 1130

Delta R.T. 0.000 min

Lab File: VN085997.D

Acq: 18 Mar 2025 12:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 83 Resp: 14439

Ion Ratio Lower Upper

83 100

55 67.7 54.2 81.2

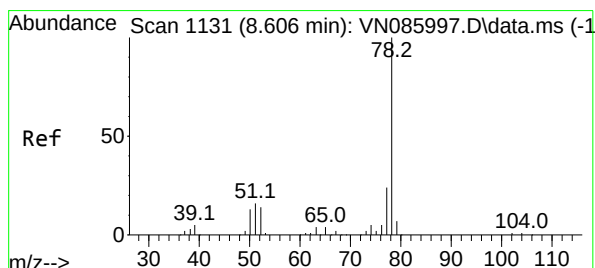
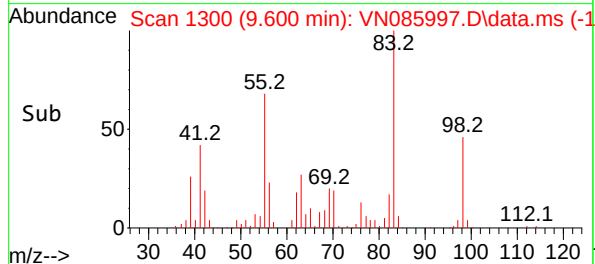
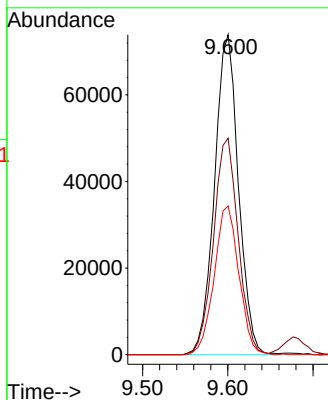
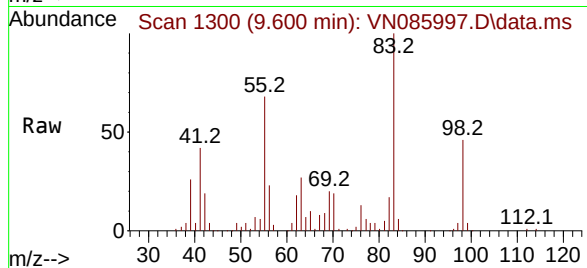
98 46.4 37.1 55.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#40

Benzene

Concen: 48.268 ug/l

RT: 8.606 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VN085997.D

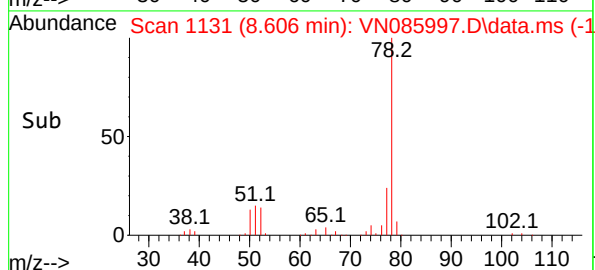
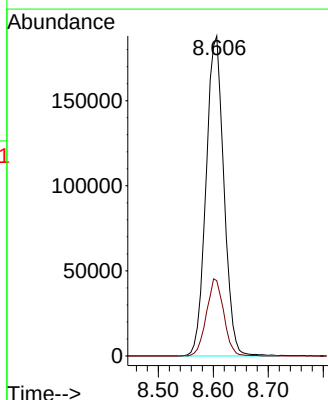
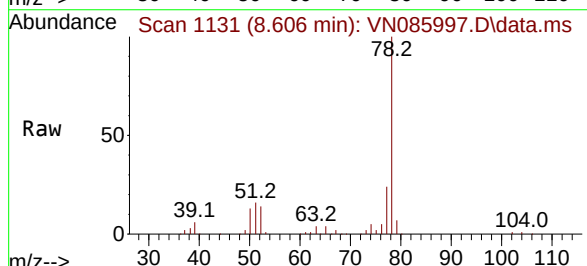
Acq: 18 Mar 2025 12:08

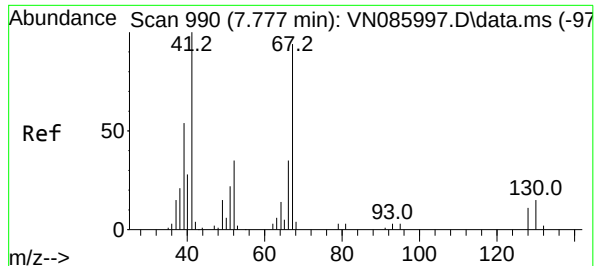
Tgt Ion: 78 Resp: 423071

Ion Ratio Lower Upper

78 100

77 23.6 18.9 28.3





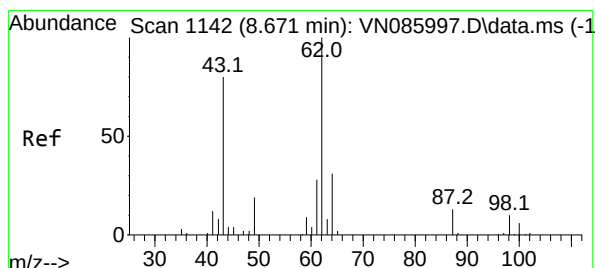
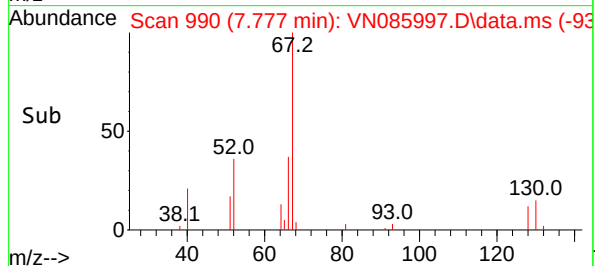
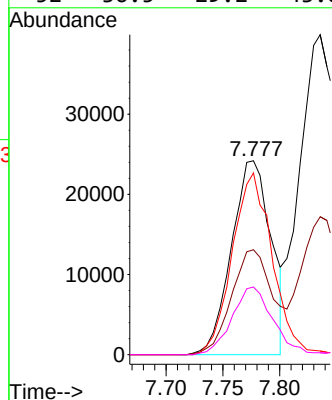
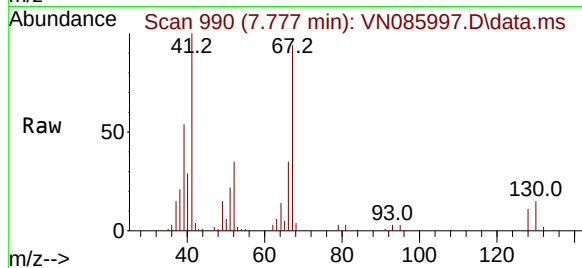
#41
Methacrylonitrile
Concen: 52.096 ug/l
RT: 7.777 min Scan# 990
Delta R.T. 0.000 min
Lab File: VN085997.D
Acq: 18 Mar 2025 12:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 41 Resp: 58590
Ion Ratio Lower Upper
41 100
39 57.7 46.2 69.2
67 94.9 75.9 113.9
52 36.5 29.2 43.8

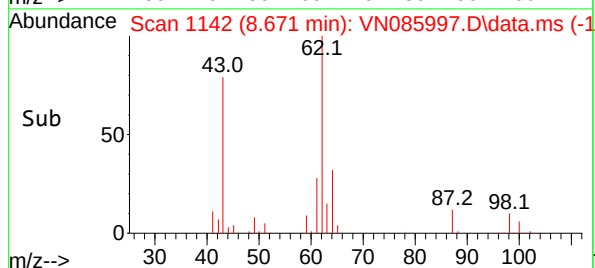
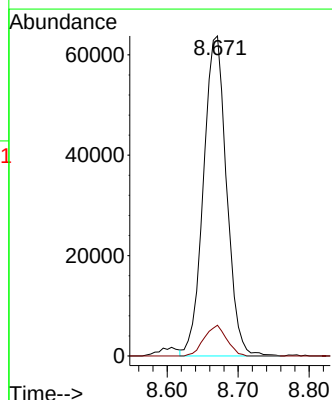
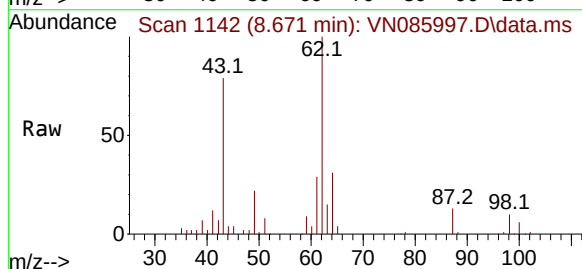
Manual Integrations
APPROVED

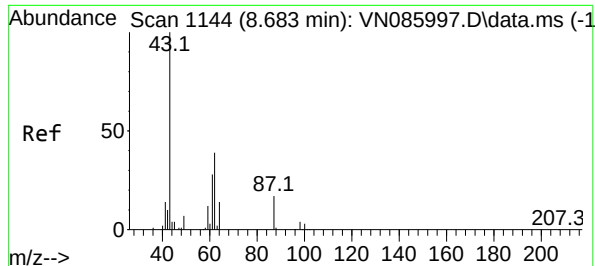
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#42
1,2-Dichloroethane
Concen: 47.265 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. 0.000 min
Lab File: VN085997.D
Acq: 18 Mar 2025 12:08

Tgt Ion: 62 Resp: 144354
Ion Ratio Lower Upper
62 100
98 9.3 0.0 18.6





#43

Isopropyl Acetate

Concen: 40.845 ug/l m

RT: 8.683 min Scan# 1144

Delta R.T. 0.000 min

Lab File: VN085997.D

Acq: 18 Mar 2025 12:08

Instrument :

MSVOA_N

ClientSampleId :

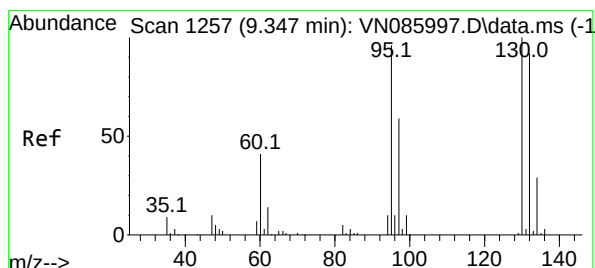
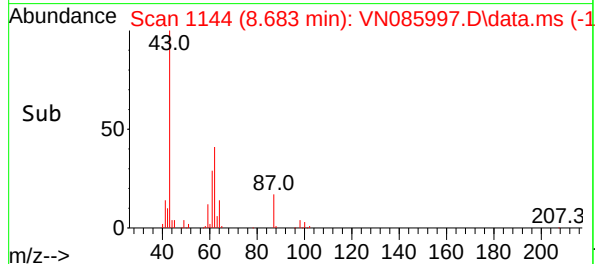
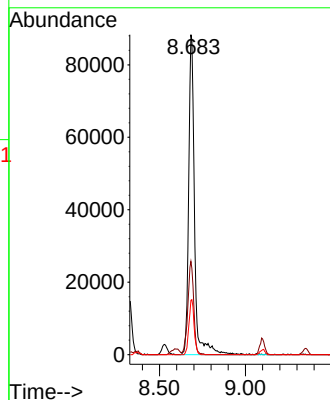
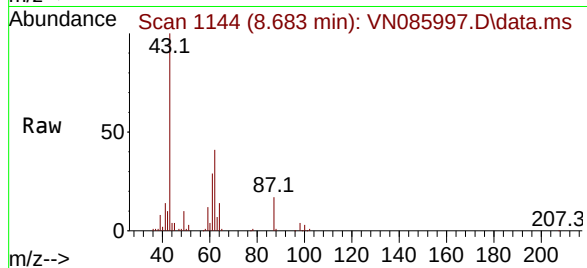
VSTDICCC050

Tgt Ion:	43	Resp:	208920
Ion	Ratio	Lower	Upper
43	100		
61	29.2	25.0	37.6
87	15.2	13.0	19.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#44

Trichloroethene

Concen: 46.260 ug/l

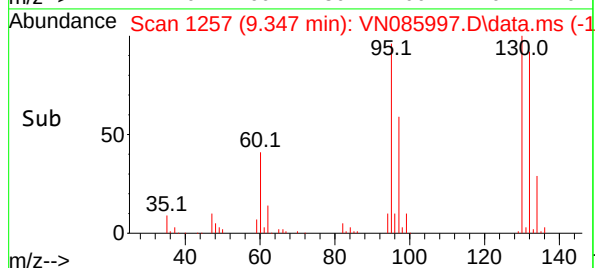
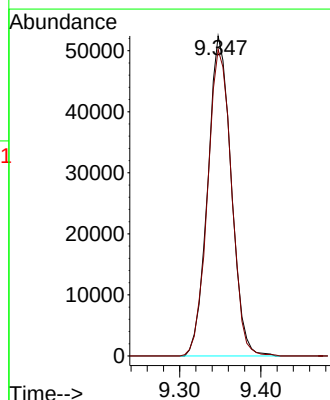
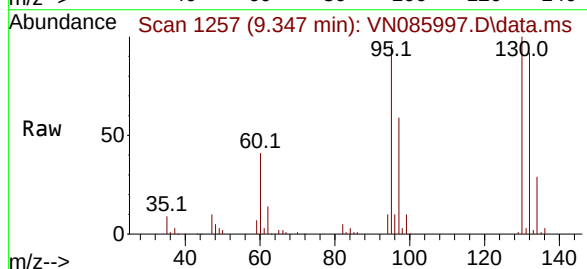
RT: 9.347 min Scan# 1257

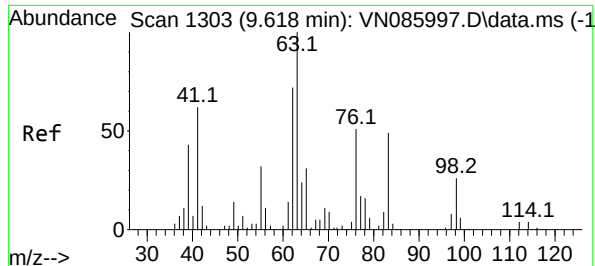
Delta R.T. 0.000 min

Lab File: VN085997.D

Acq: 18 Mar 2025 12:08

Tgt Ion:	130	Resp:	105089
Ion	Ratio	Lower	Upper
130	100		
95	95.8	0.0	191.6





#45

1,2-Dichloropropane

Concen: 48.856 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. 0.000 min

Lab File: VN085997.D

Acq: 18 Mar 2025 12:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 63 Resp: 97398

Ion Ratio Lower Upper

63 100

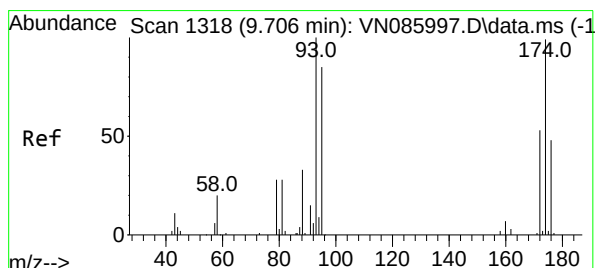
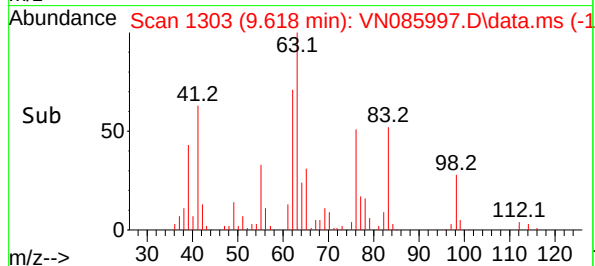
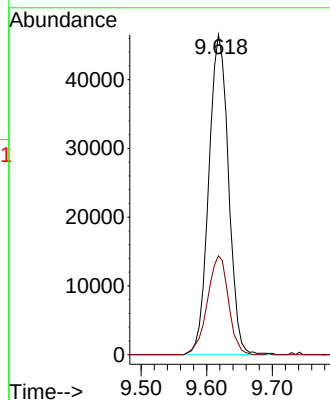
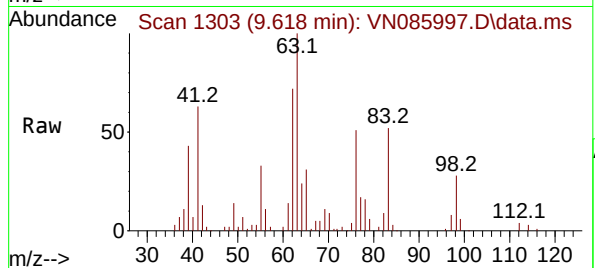
65 30.9 24.7 37.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#46

Dibromomethane

Concen: 47.036 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. 0.000 min

Lab File: VN085997.D

Acq: 18 Mar 2025 12:08

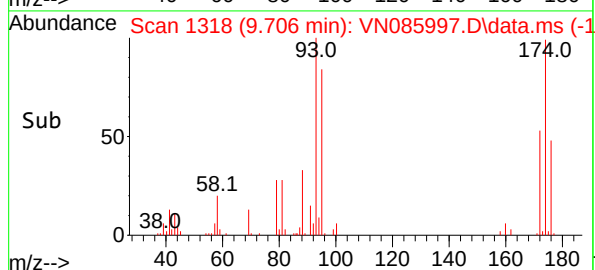
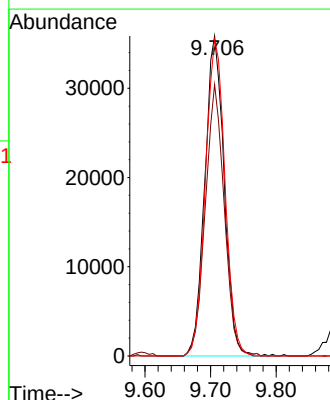
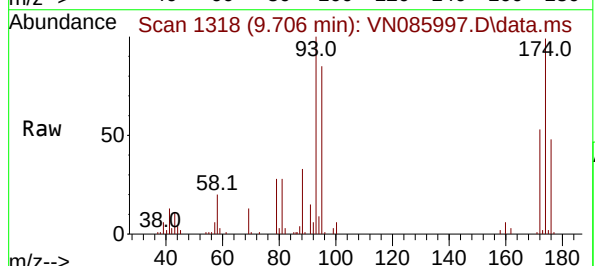
Tgt Ion: 93 Resp: 73743

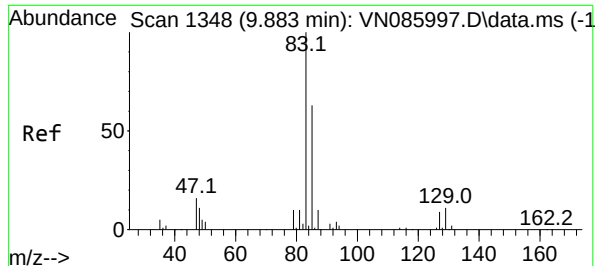
Ion Ratio Lower Upper

93 100

95 82.7 66.2 99.2

174 100.1 80.1 120.1





#47

Bromodichloromethane

Concen: 47.887 ug/l

RT: 9.883 min Scan# 1348

Delta R.T. 0.000 min

Lab File: VN085997.D

Acq: 18 Mar 2025 12:08

Instrument :

MSVOA_N

ClientSampleId :

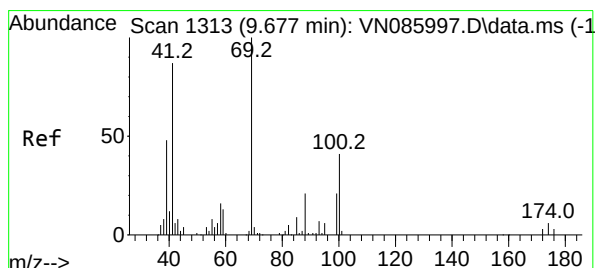
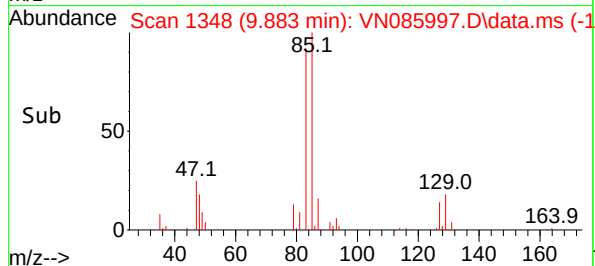
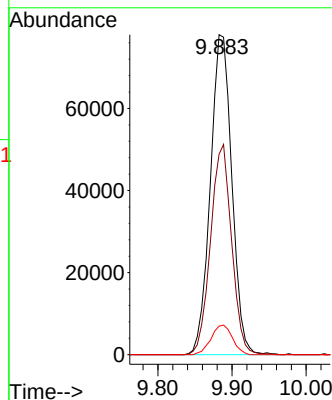
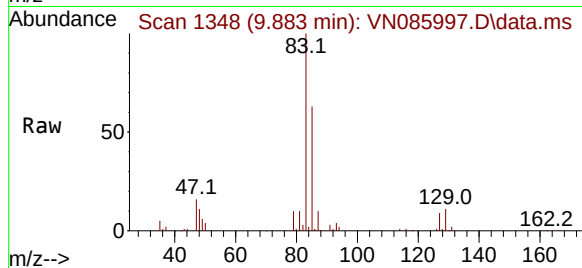
VSTDICCC050

Tgt Ion:	83	Resp:	156908
Ion Ratio	Lower	Upper	
83	100		
85	62.7	50.2	75.2
127	8.9	7.1	10.7

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#48

Methyl methacrylate

Concen: 52.192 ug/l

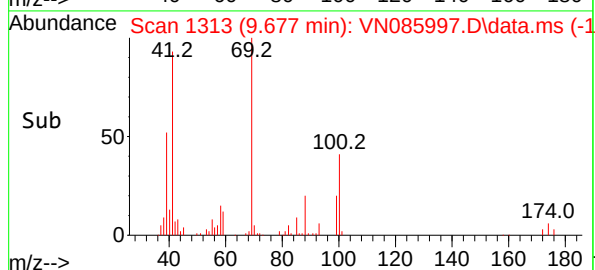
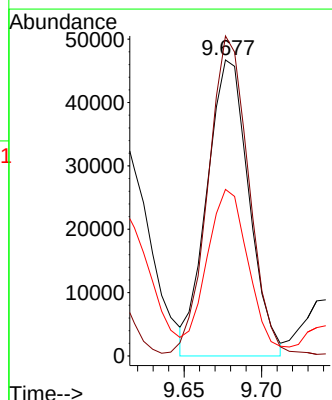
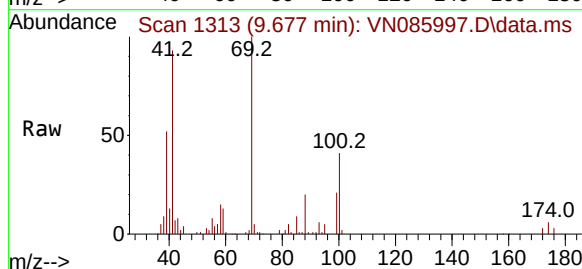
RT: 9.677 min Scan# 1313

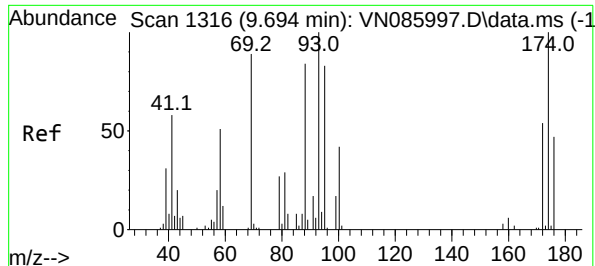
Delta R.T. 0.000 min

Lab File: VN085997.D

Acq: 18 Mar 2025 12:08

Tgt Ion:	41	Resp:	87911
Ion Ratio	Lower	Upper	
41	100		
69	103.9	83.1	124.7
39	57.0	45.6	68.4





#49

1,4-Dioxane

Concen: 1050.235 ug/l

RT: 9.694 min Scan# 1316

Delta R.T. 0.000 min

Lab File: VN085997.D

Acq: 18 Mar 2025 12:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 88 Resp: 41818

Ion Ratio Lower Upper

88 100

43 27.1 21.7 32.5

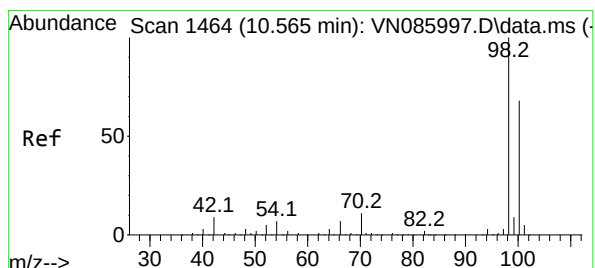
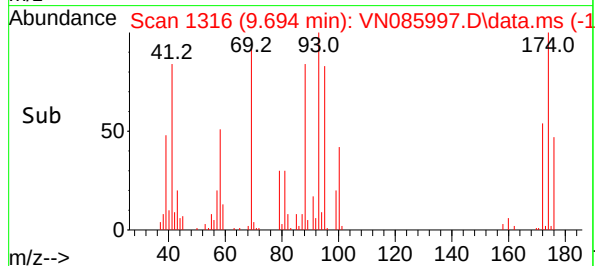
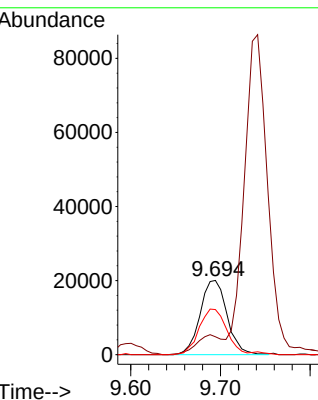
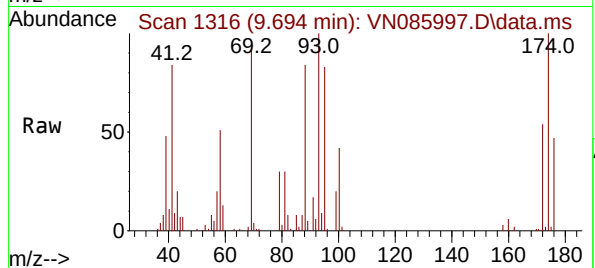
58 63.0 50.4 75.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#50

Toluene-d8

Concen: 49.972 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN085997.D

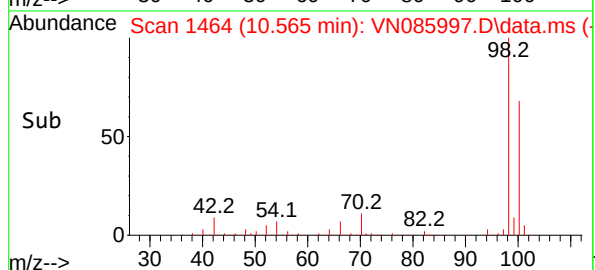
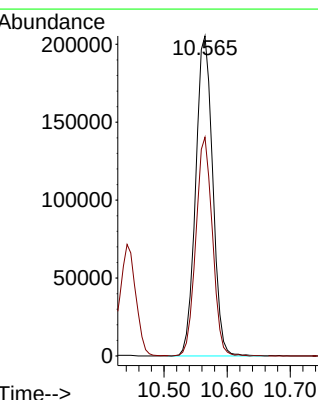
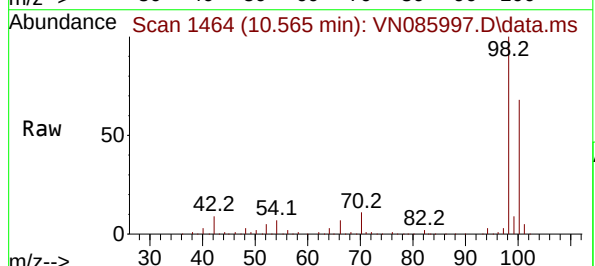
Acq: 18 Mar 2025 12:08

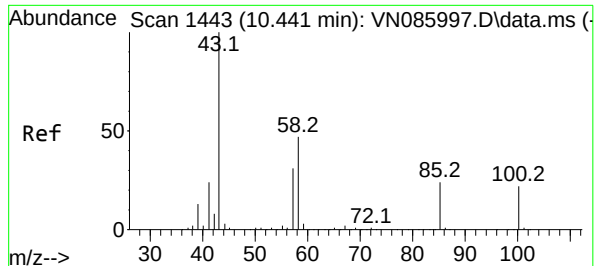
Tgt Ion: 98 Resp: 384569

Ion Ratio Lower Upper

98 100

100 66.4 53.1 79.7





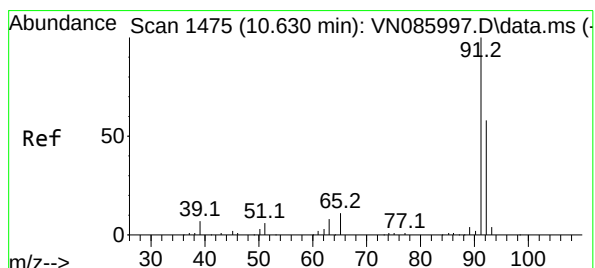
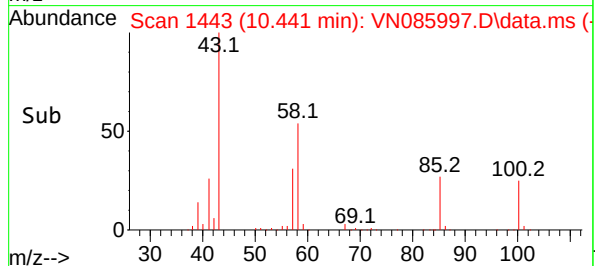
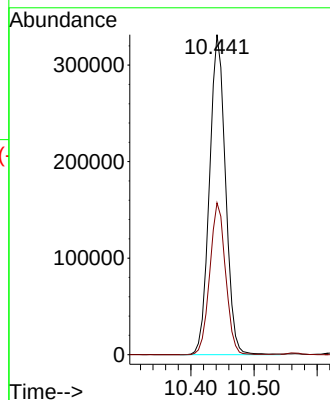
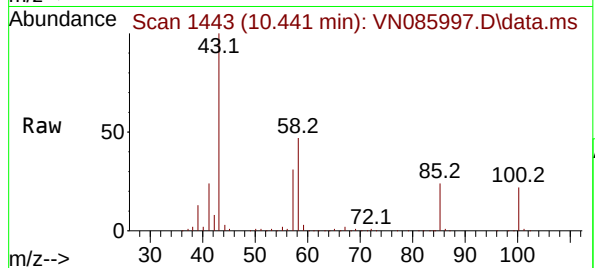
#51
4-Methyl-2-Pentanone
Concen: 259.501 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085997.D
Acq: 18 Mar 2025 12:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 58416
Ion Ratio Lower Upper
43 100
58 46.7 37.4 56.0

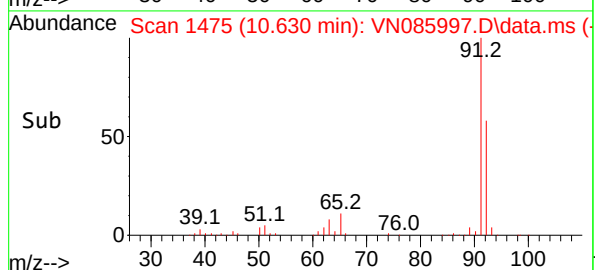
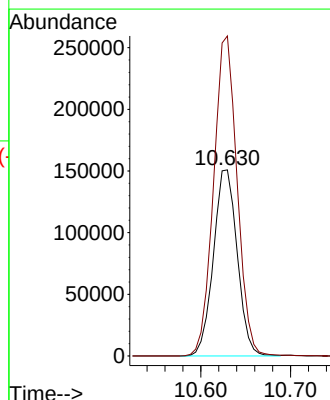
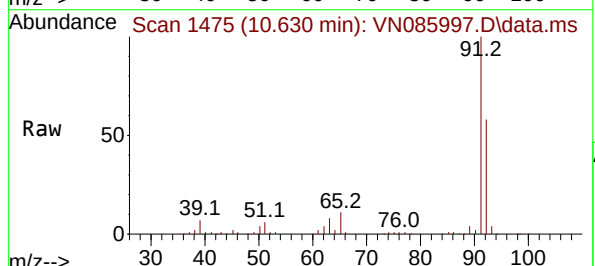
Manual Integrations
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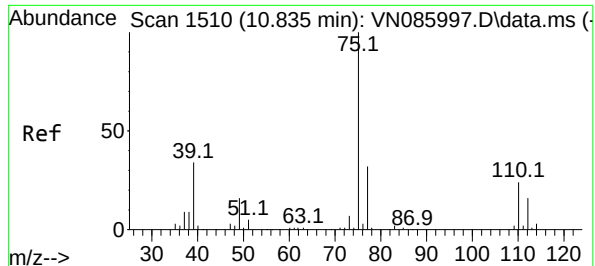
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#52
Toluene
Concen: 51.661 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN085997.D
Acq: 18 Mar 2025 12:08

Tgt Ion: 92 Resp: 277914
Ion Ratio Lower Upper
92 100
91 170.3 136.2 204.4





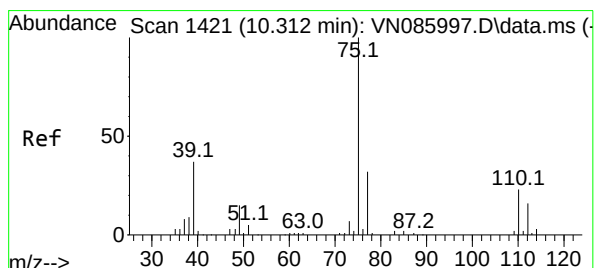
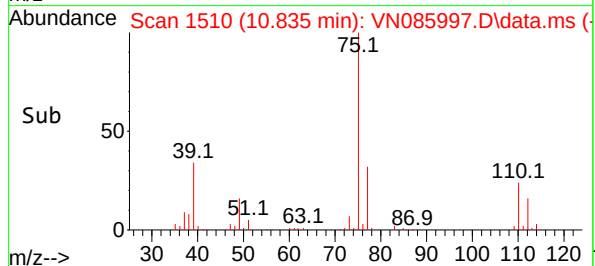
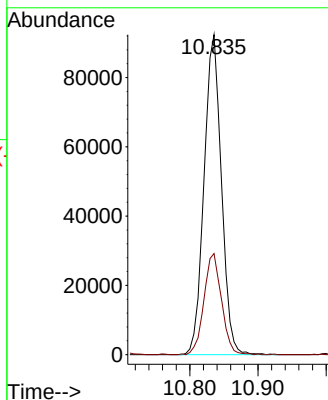
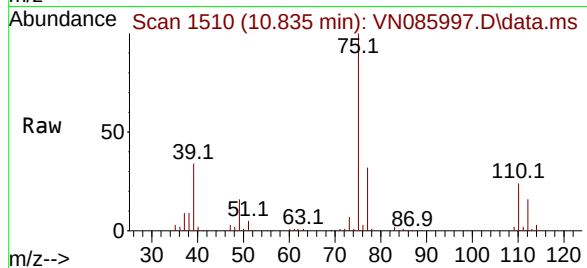
#53
t-1,3-Dichloropropene
Concen: 51.430 ug/l
RT: 10.835 min Scan# 1510
Delta R.T. 0.000 min
Lab File: VN085997.D
Acq: 18 Mar 2025 12:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 75 Resp: 163659
Ion Ratio Lower Upper
75 100
77 31.6 25.3 37.9

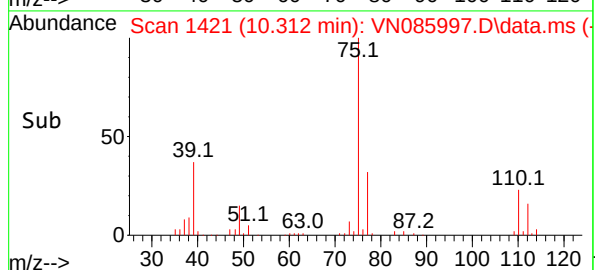
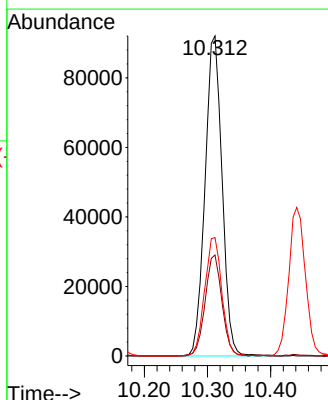
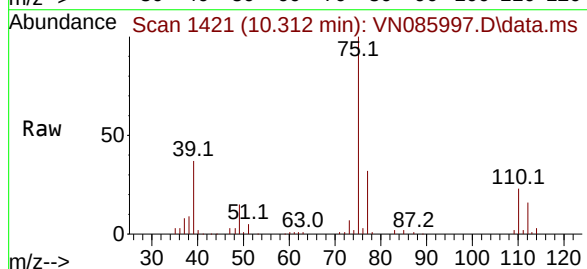
Manual Integrations
APPROVED

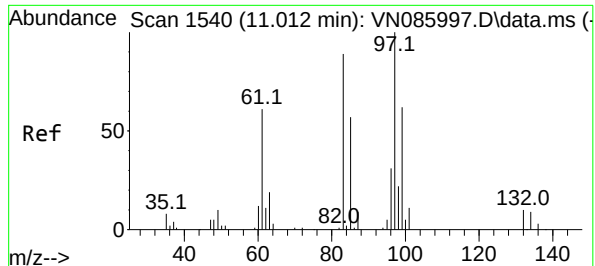
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#54
cis-1,3-Dichloropropene
Concen: 51.366 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.000 min
Lab File: VN085997.D
Acq: 18 Mar 2025 12:08

Tgt Ion: 75 Resp: 172456
Ion Ratio Lower Upper
75 100
77 31.6 25.3 37.9
39 37.0 29.6 44.4





#55

1,1,2-Trichloroethane

Concen: 48.343 ug/l

RT: 11.012 min Scan# 1540

Delta R.T. 0.000 min

Lab File: VN085997.D

Acq: 18 Mar 2025 12:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 97 Resp: 99259

Ion Ratio Lower Upper

97 100

83 89.0 71.2 106.8

85 56.7 45.4 68.0

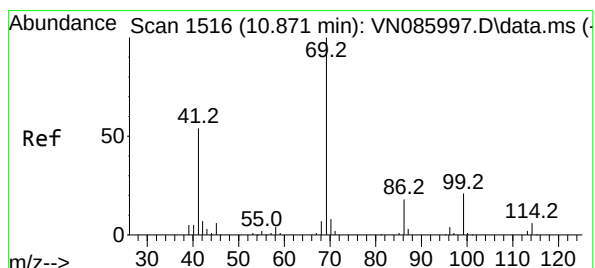
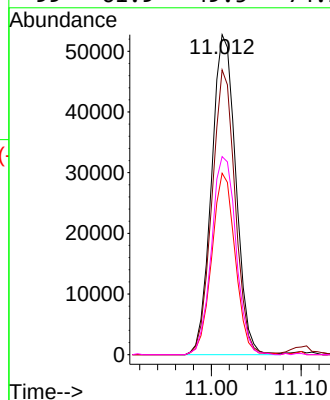
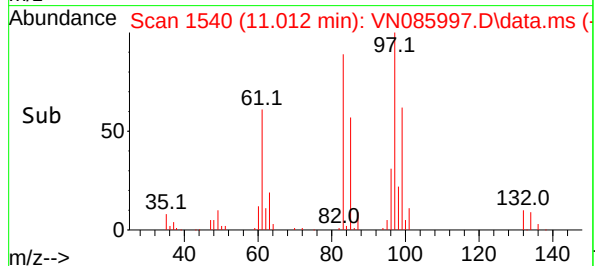
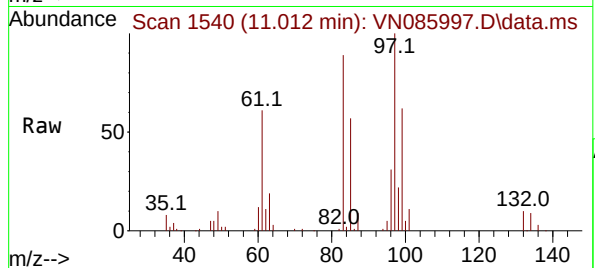
99 61.9 49.5 74.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#56

Ethyl methacrylate

Concen: 49.943 ug/l

RT: 10.871 min Scan# 1516

Delta R.T. -0.000 min

Lab File: VN085997.D

Acq: 18 Mar 2025 12:08

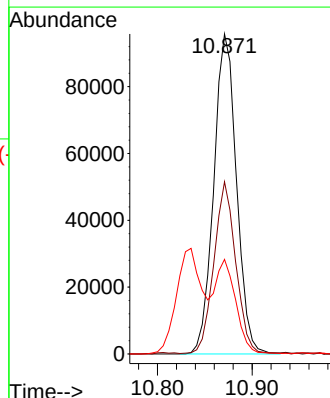
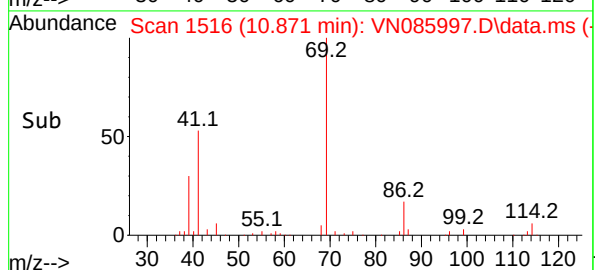
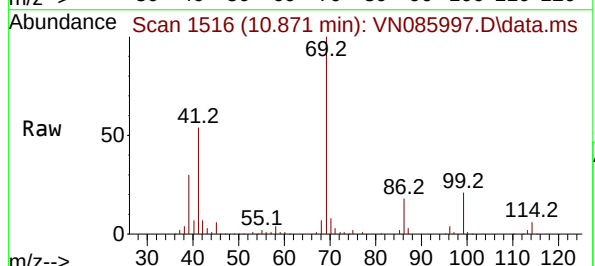
Tgt Ion: 69 Resp: 159926

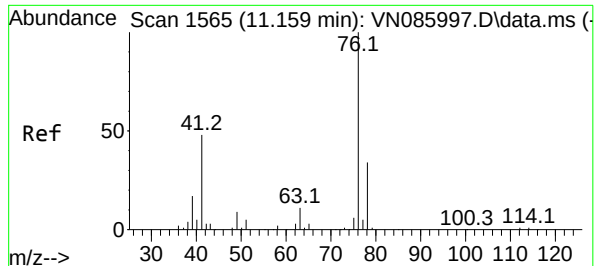
Ion Ratio Lower Upper

69 100

41 52.0 41.6 62.4

39 27.3 21.8 32.8





#57

1,3-Dichloropropane

Concen: 49.385 ug/l

RT: 11.159 min Scan# 1565

Delta R.T. 0.000 min

Lab File: VN085997.D

Acq: 18 Mar 2025 12:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 76 Resp: 172224

Ion Ratio Lower Upper

76 100

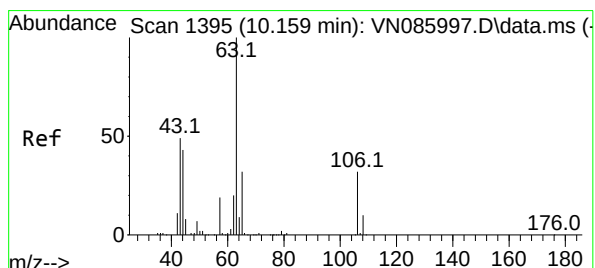
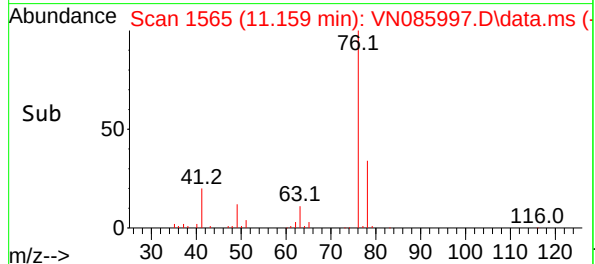
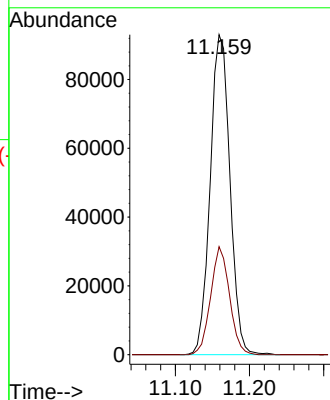
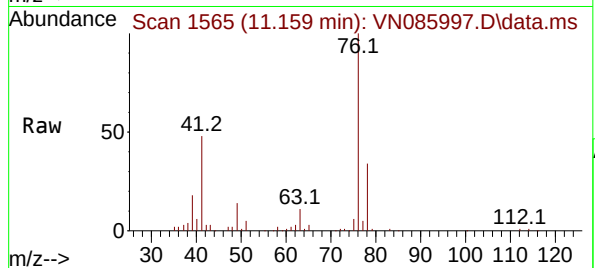
78 32.2 25.8 38.6

Manual Integrations

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Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#58

2-Chloroethyl Vinyl ether

Concen: 261.262 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. 0.000 min

Lab File: VN085997.D

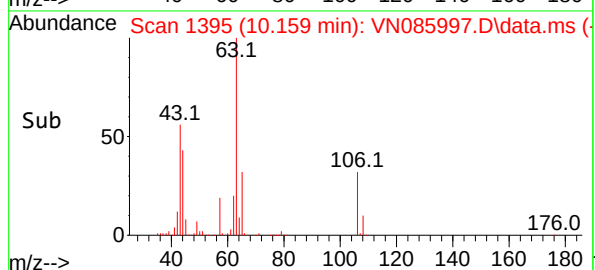
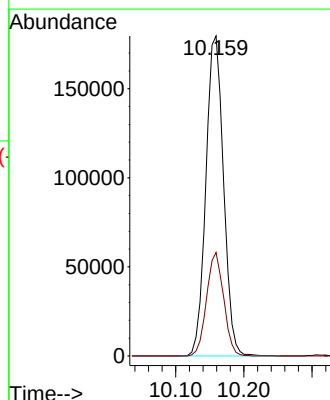
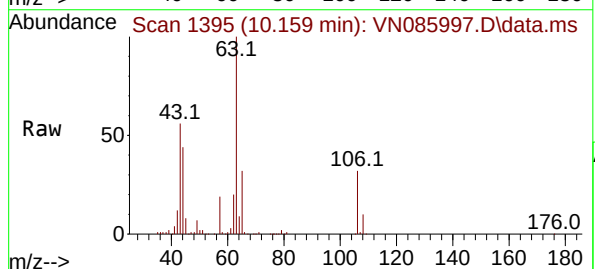
Acq: 18 Mar 2025 12:08

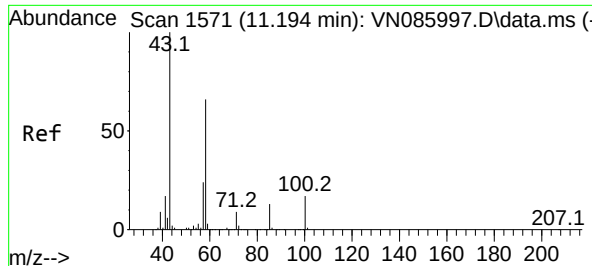
Tgt Ion: 63 Resp: 323306

Ion Ratio Lower Upper

63 100

106 31.3 25.0 37.6





#59

2-Hexanone

Concen: 263.380 ug/l

RT: 11.194 min Scan# 1571

Delta R.T. 0.000 min

Lab File: VN085997.D

Acq: 18 Mar 2025 12:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 43192

Ion Ratio Lower Upper

43 100

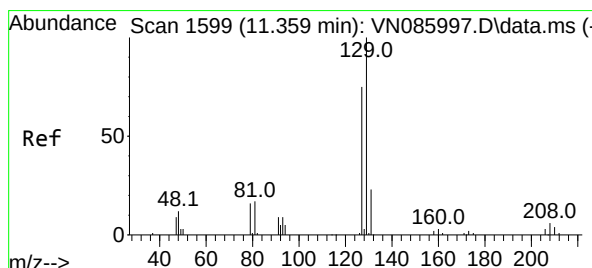
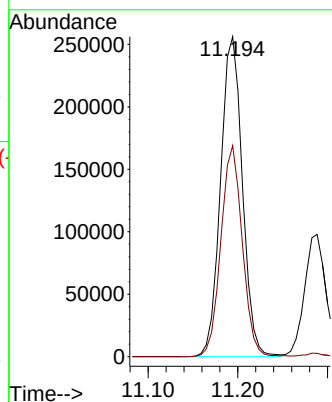
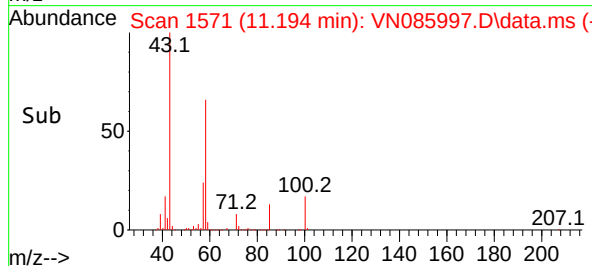
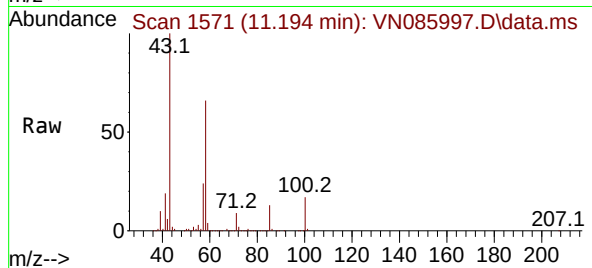
58 64.8 32.4 97.2

Manual Integrations

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Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#60

Dibromochloromethane

Concen: 49.558 ug/l

RT: 11.359 min Scan# 1599

Delta R.T. 0.000 min

Lab File: VN085997.D

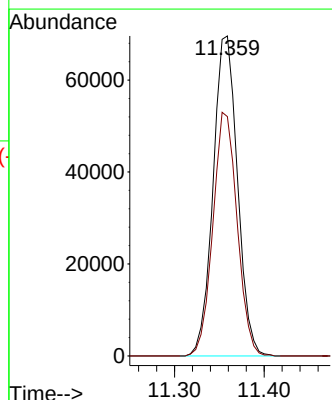
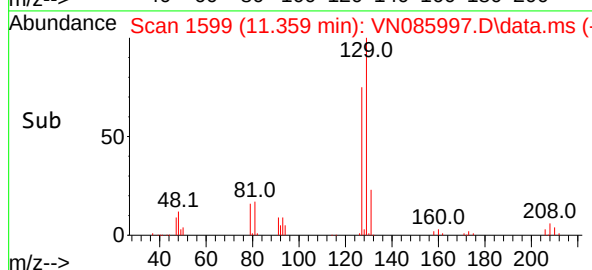
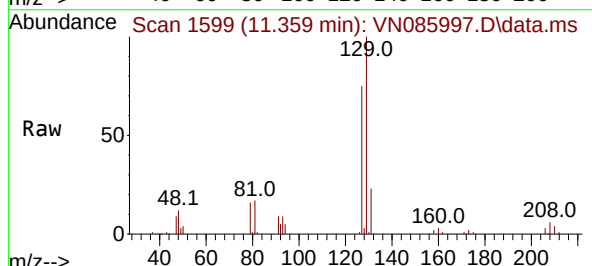
Acq: 18 Mar 2025 12:08

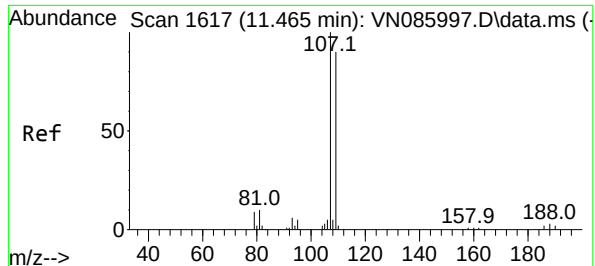
Tgt Ion:129 Resp: 131303

Ion Ratio Lower Upper

129 100

127 75.6 37.8 113.4





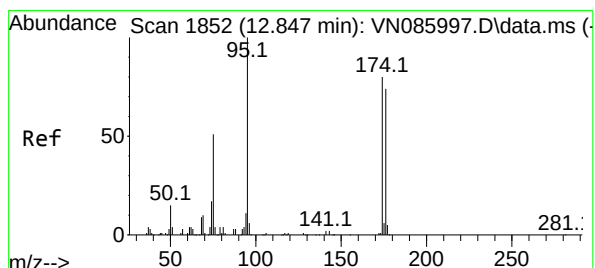
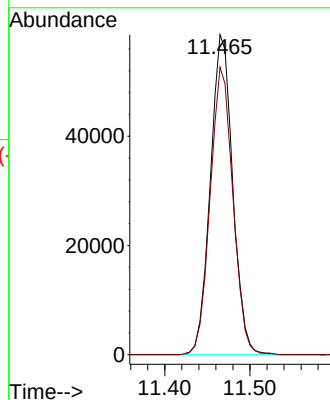
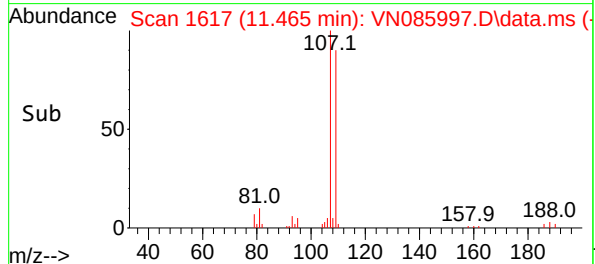
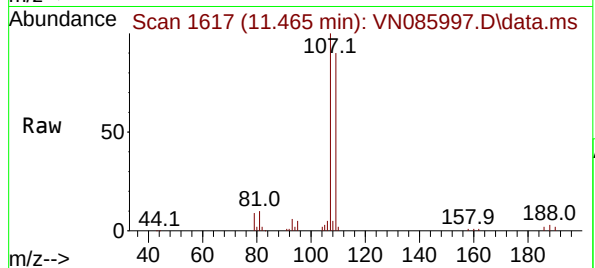
#61
1,2-Dibromoethane
Concen: 50.543 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. 0.000 min
Lab File: VN085997.D
Acq: 18 Mar 2025 12:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion:107 Resp: 106539
Ion Ratio Lower Upper
107 100
109 91.6 73.3 109.9

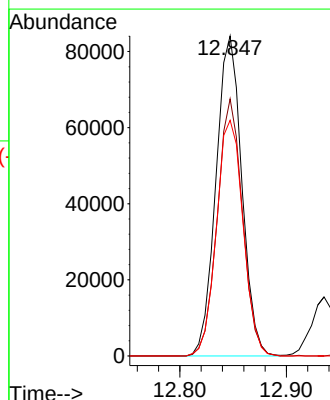
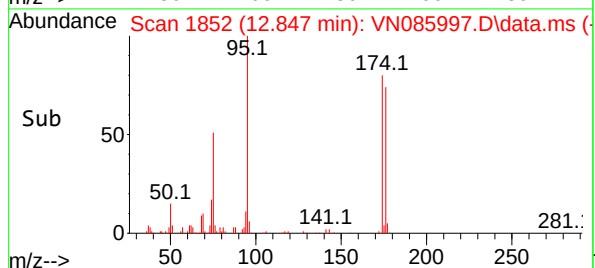
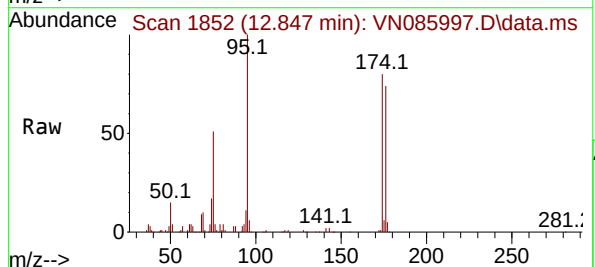
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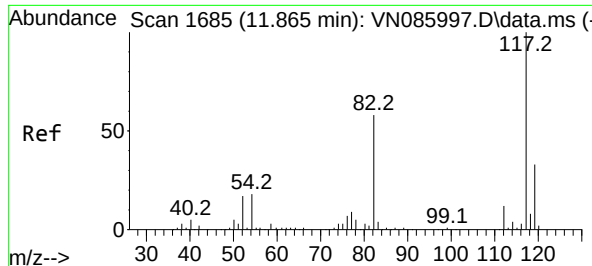
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#62
4-Bromofluorobenzene
Concen: 51.544 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085997.D
Acq: 18 Mar 2025 12:08

Tgt Ion: 95 Resp: 141464
Ion Ratio Lower Upper
95 100
174 78.4 0.0 156.8
176 76.1 0.0 152.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN085997.D

Acq: 18 Mar 2025 12:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion:117 Resp: 27351

Ion Ratio Lower Upper

117 100

82 58.4 46.7 70.1

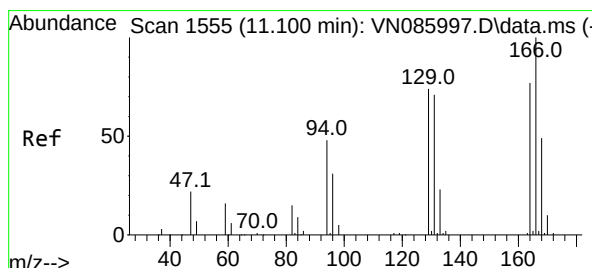
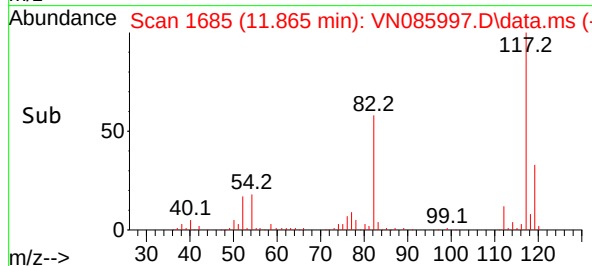
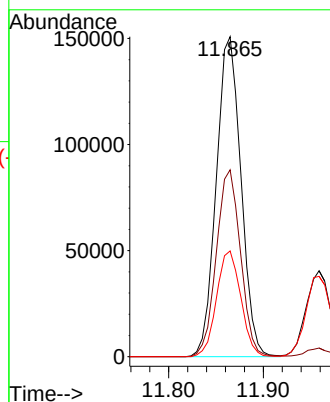
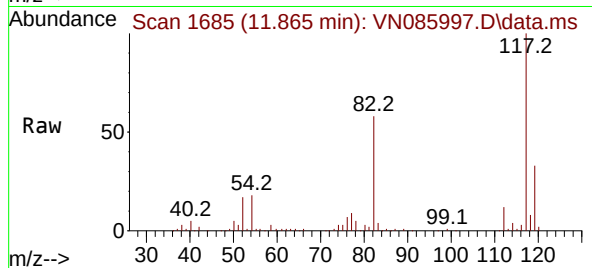
119 33.1 26.5 39.7

Manual Integrations

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Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#64

Tetrachloroethene

Concen: 46.478 ug/l

RT: 11.100 min Scan# 1555

Delta R.T. 0.000 min

Lab File: VN085997.D

Acq: 18 Mar 2025 12:08

Tgt Ion:164 Resp: 101407

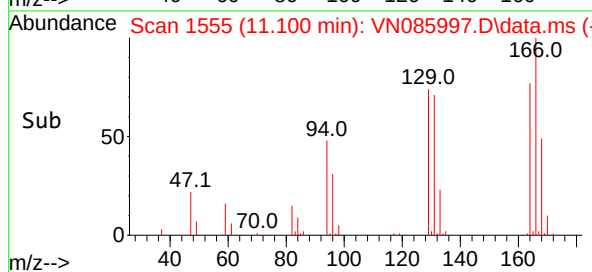
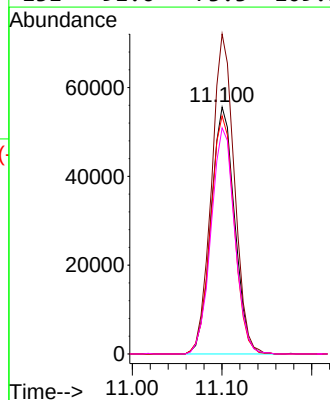
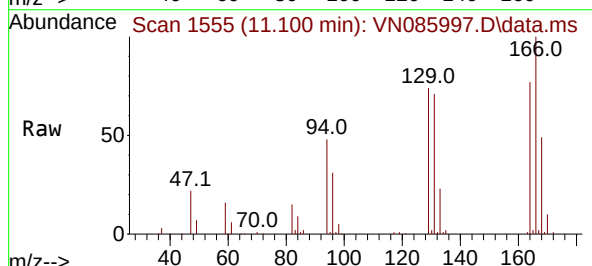
Ion Ratio Lower Upper

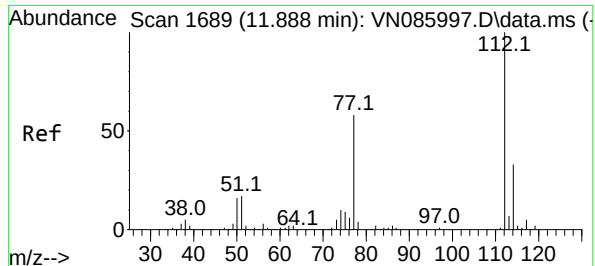
164 100

166 129.6 103.7 155.5

129 96.4 77.1 115.7

131 91.6 73.3 109.9





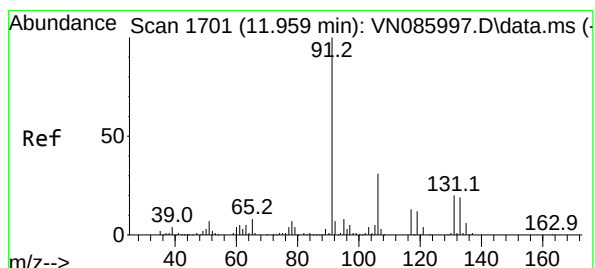
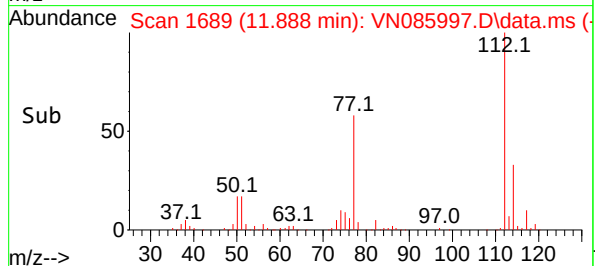
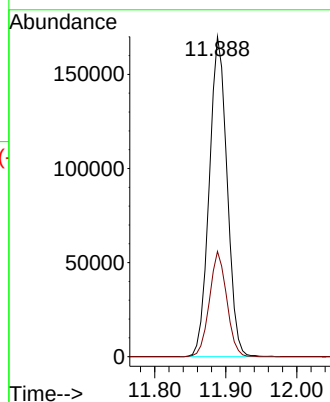
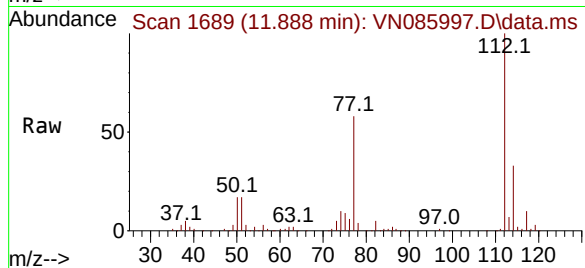
#65
Chlorobenzene
Concen: 47.424 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. 0.000 min
Lab File: VN085997.D
Acq: 18 Mar 2025 12:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion:112 Resp: 29681
Ion Ratio Lower Upper
112 100
114 32.9 26.3 39.5

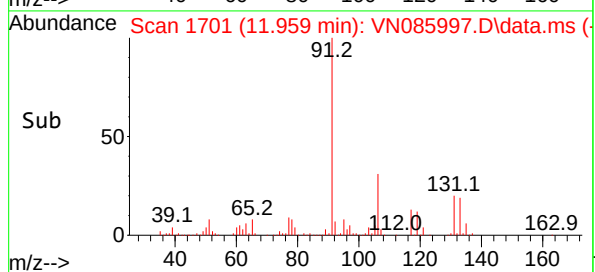
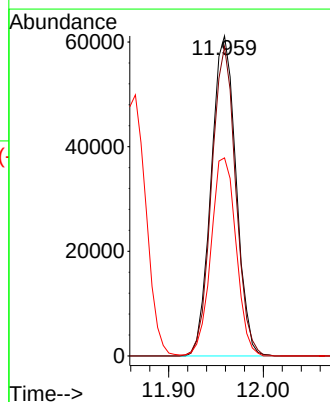
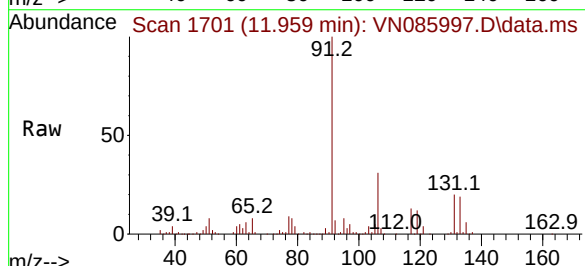
Manual Integrations
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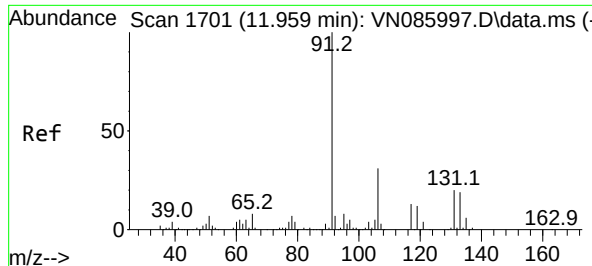
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 47.853 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VN085997.D
Acq: 18 Mar 2025 12:08

Tgt Ion:131 Resp: 111333
Ion Ratio Lower Upper
131 100
133 94.0 47.0 141.0
119 62.7 31.4 94.0





#67

Ethyl Benzene

Concen: 52.405 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. 0.000 min

Lab File: VN085997.D

Acq: 18 Mar 2025 12:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 91 Resp: 52465

Ion Ratio Lower Upper

91 100

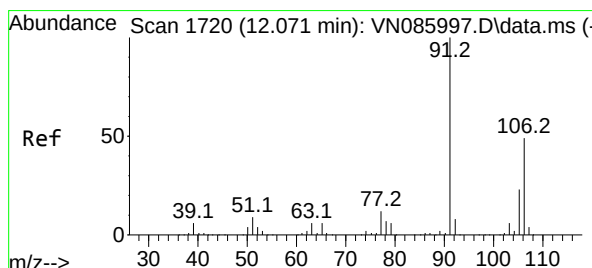
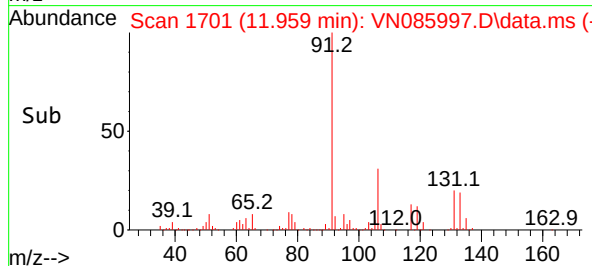
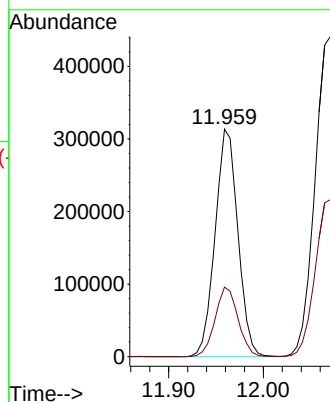
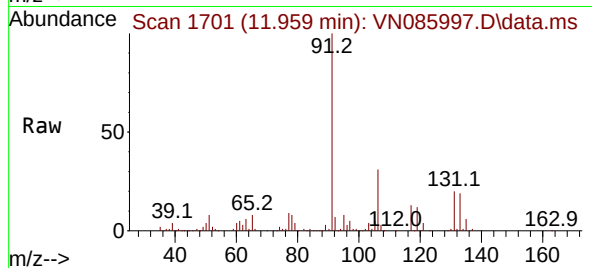
106 30.6 24.5 36.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#68

m/p-Xylenes

Concen: 105.075 ug/l

RT: 12.071 min Scan# 1720

Delta R.T. 0.000 min

Lab File: VN085997.D

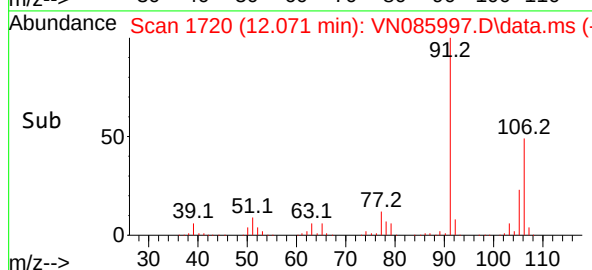
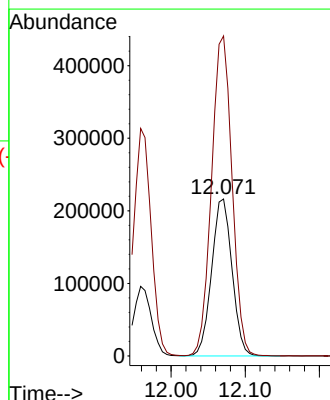
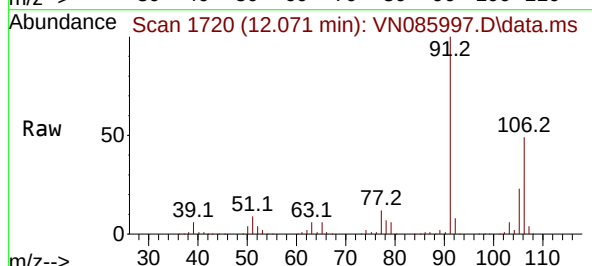
Acq: 18 Mar 2025 12:08

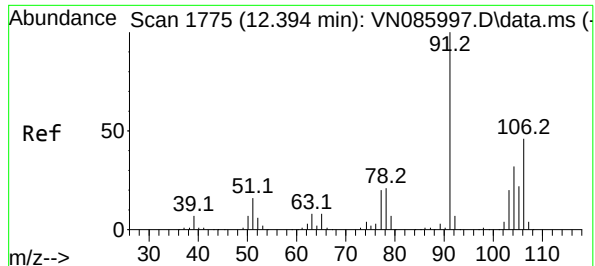
Tgt Ion:106 Resp: 413470

Ion Ratio Lower Upper

106 100

91 204.9 163.9 245.9





#69

o-Xylene

Concen: 54.023 ug/l

RT: 12.394 min Scan# 1775

Delta R.T. 0.000 min

Lab File: VN085997.D

Acq: 18 Mar 2025 12:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion:106 Resp: 195107

Ion Ratio Lower Upper

106 100

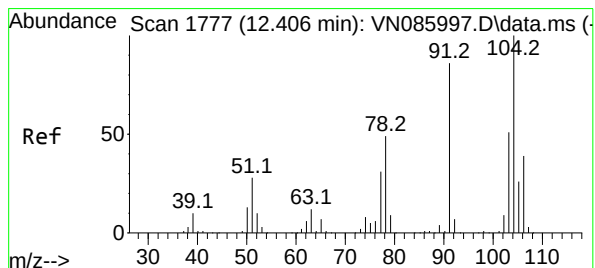
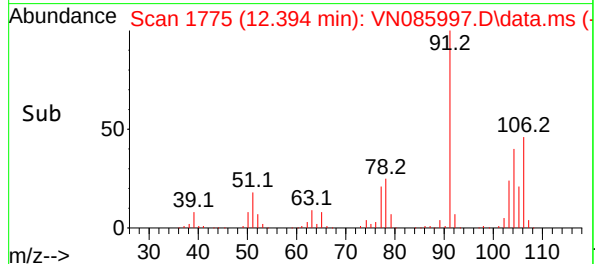
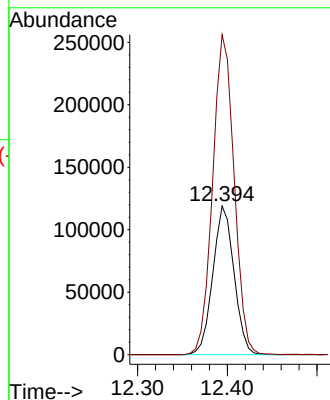
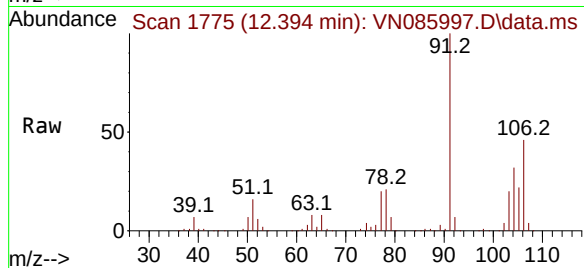
91 218.1 109.1 327.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#70

Styrene

Concen: 54.070 ug/l

RT: 12.406 min Scan# 1777

Delta R.T. 0.000 min

Lab File: VN085997.D

Acq: 18 Mar 2025 12:08

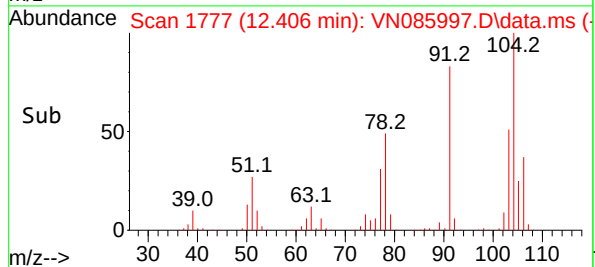
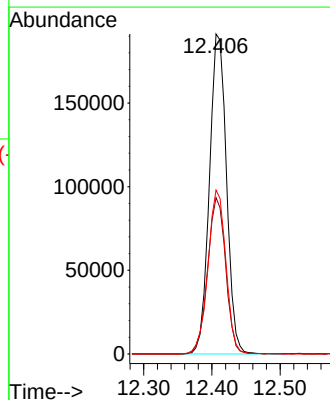
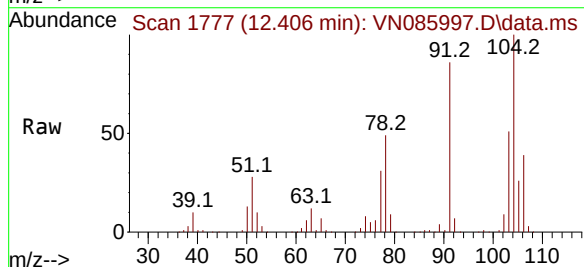
Tgt Ion:104 Resp: 333544

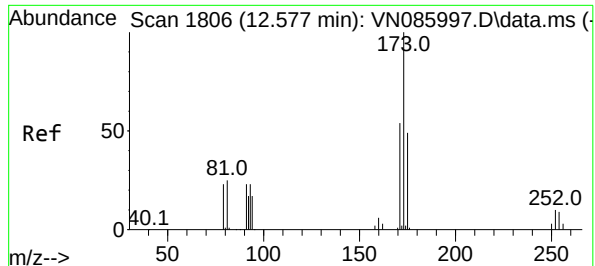
Ion Ratio Lower Upper

104 100

78 51.8 41.4 62.2

103 53.6 42.9 64.3





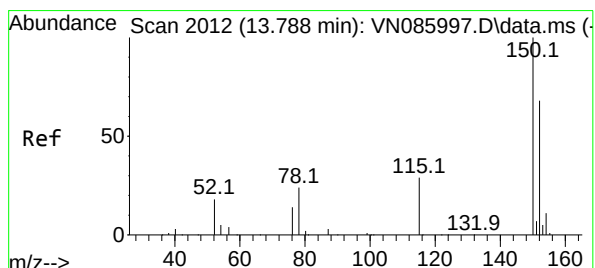
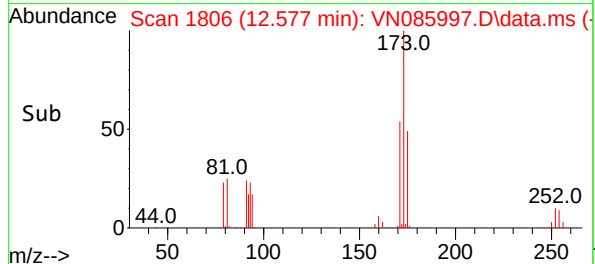
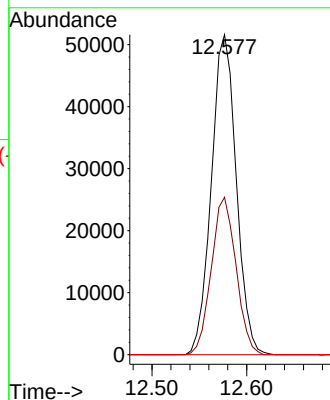
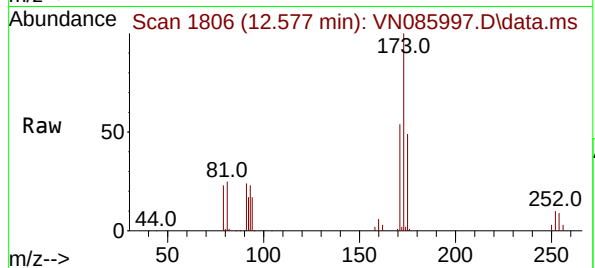
#71
Bromoform
Concen: 48.469 ug/l
RT: 12.577 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VN085997.D
Acq: 18 Mar 2025 12:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion:173 Resp: 94268
Ion Ratio Lower Upper
173 100
175 48.7 24.3 73.0
254 0.0 0.0 0.0

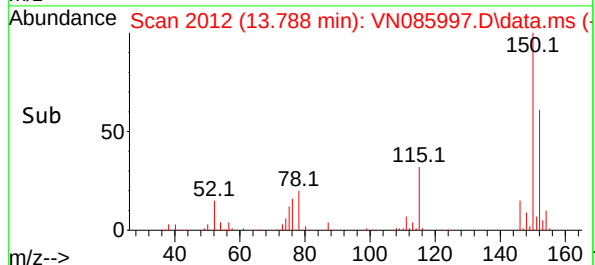
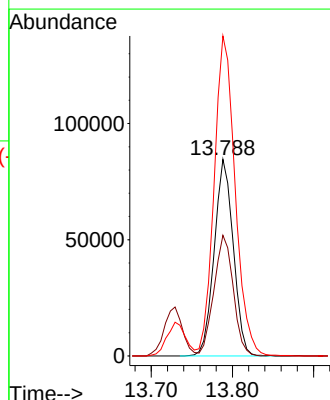
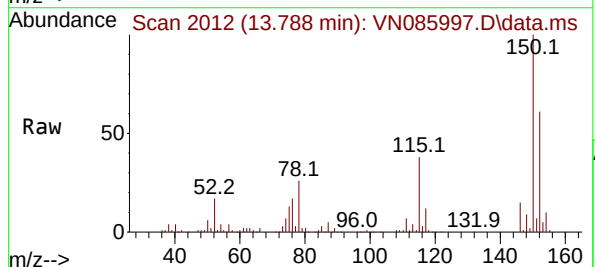
Manual Integrations
APPROVED

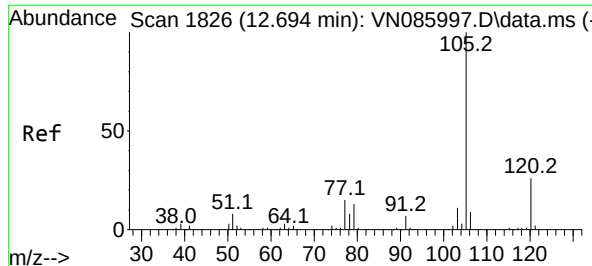
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 1212
Delta R.T. 0.000 min
Lab File: VN085997.D
Acq: 18 Mar 2025 12:08

Tgt Ion:152 Resp: 137905
Ion Ratio Lower Upper
152 100
115 62.1 31.1 93.2
150 179.8 0.0 359.6





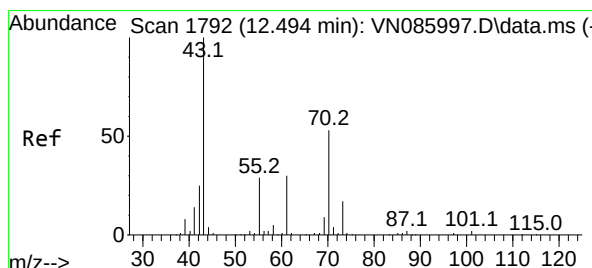
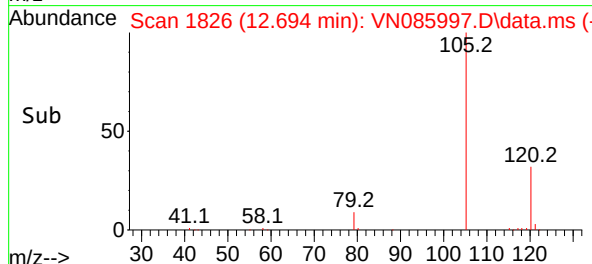
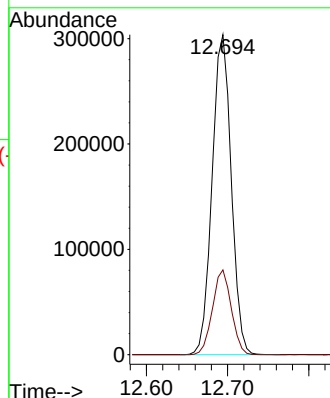
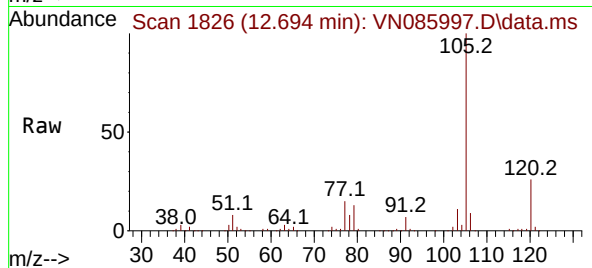
#73
Isopropylbenzene
Concen: 52.708 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN085997.D
Acq: 18 Mar 2025 12:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion:105 Resp: 496368
Ion Ratio Lower Upper
105 100
120 26.0 13.0 39.0

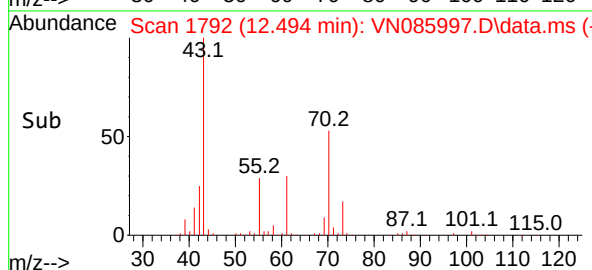
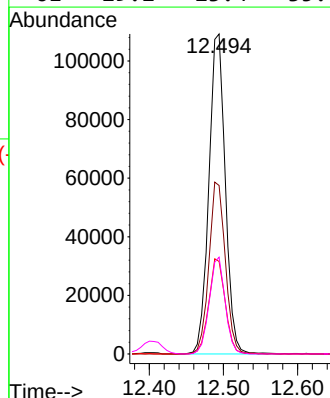
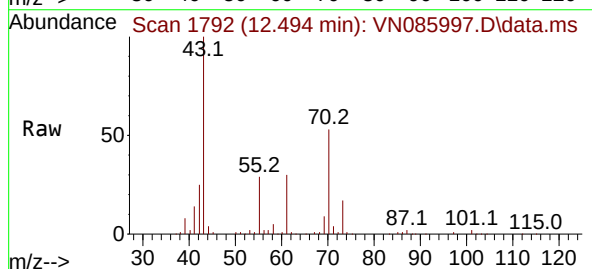
Manual Integrations
APPROVED

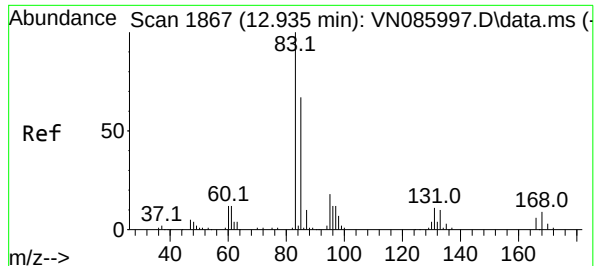
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#74
N-ethyl acetate
Concen: 53.384 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. 0.000 min
Lab File: VN085997.D
Acq: 18 Mar 2025 12:08

Tgt Ion: 43 Resp: 168199
Ion Ratio Lower Upper
43 100
70 53.7 43.0 64.4
55 29.8 23.8 35.8
61 29.2 23.4 35.0





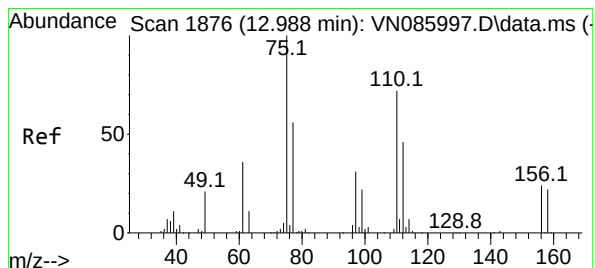
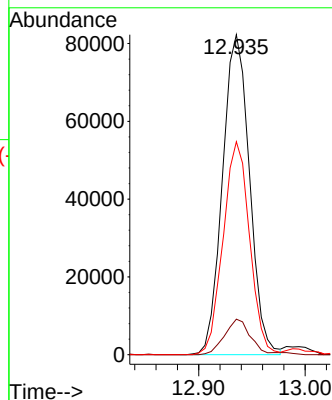
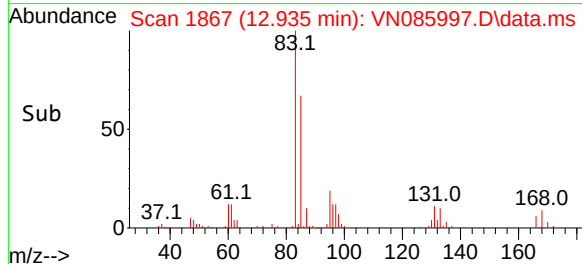
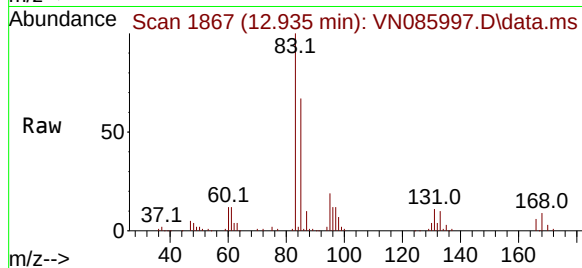
#75
1,1,2,2-Tetrachloroethane
Concen: 45.522 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. 0.000 min
Lab File: VN085997.D
Acq: 18 Mar 2025 12:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 83 Resp: 145034
Ion Ratio Lower Upper
83 100
131 11.0 5.5 16.5
85 65.2 32.6 97.8

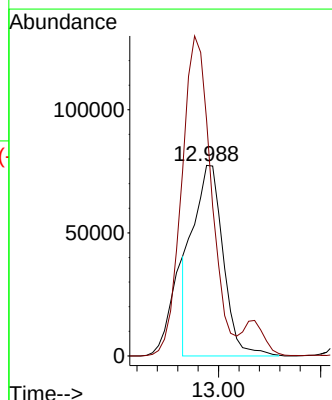
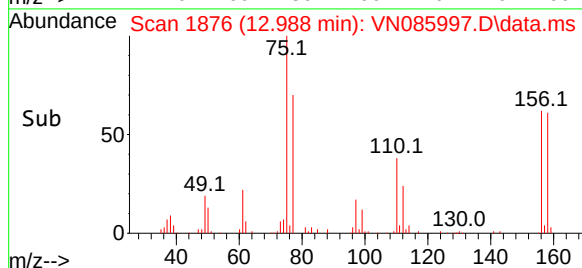
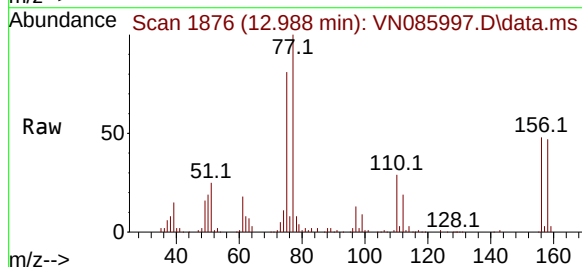
Manual Integrations
APPROVED

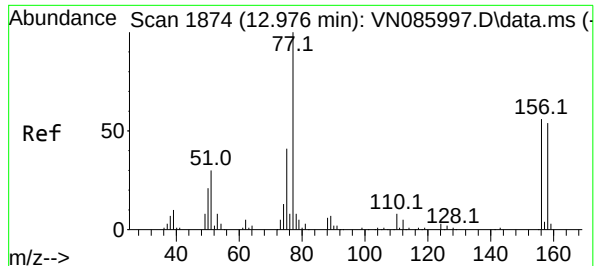
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#76
1,2,3-Trichloropropane
Concen: 50.737 ug/l m
RT: 12.988 min Scan# 1876
Delta R.T. 0.000 min
Lab File: VN085997.D
Acq: 18 Mar 2025 12:08

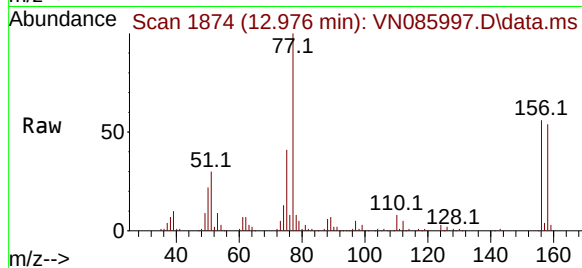
Tgt Ion: 75 Resp: 159517
Ion Ratio Lower Upper
75 100
77 163.7 83.7 251.0





#77
Bromobenzene
Concen: 47.769 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. 0.000 min
Lab File: VN085997.D
Acq: 18 Mar 2025 12:08

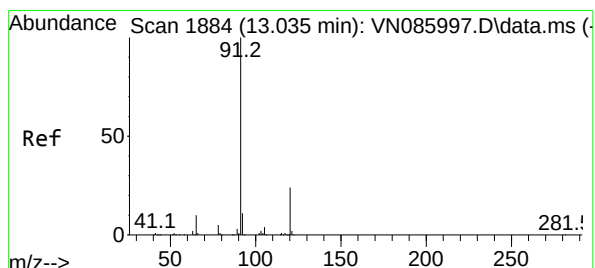
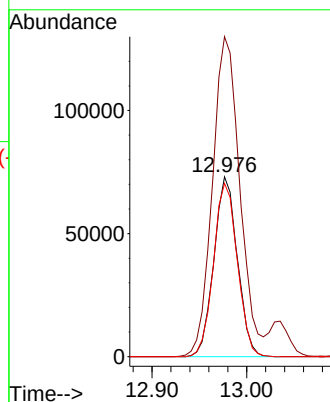
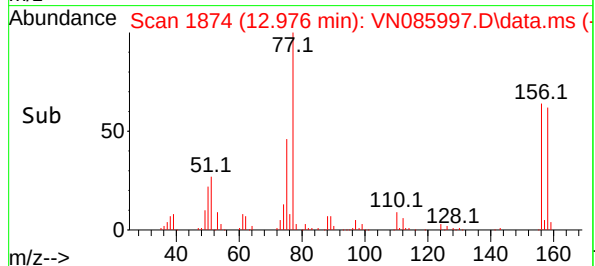
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



Tgt Ion:156 Resp: 125430
Ion Ratio Lower Upper
156 100
77 208.2 104.1 312.3
158 98.0 49.0 147.0

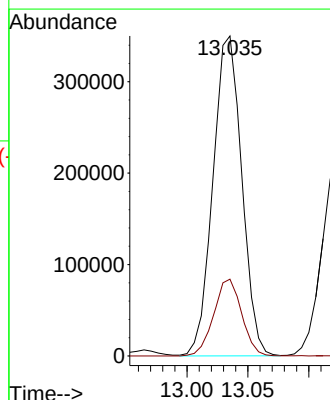
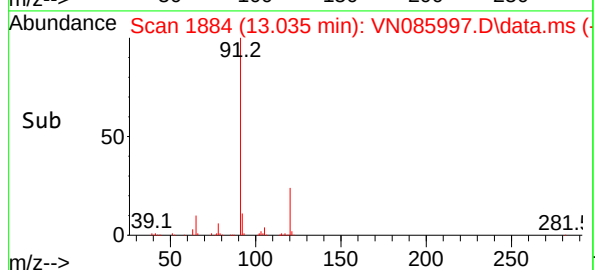
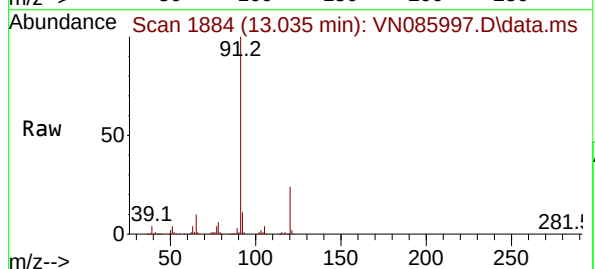
Manual Integrations
APPROVED

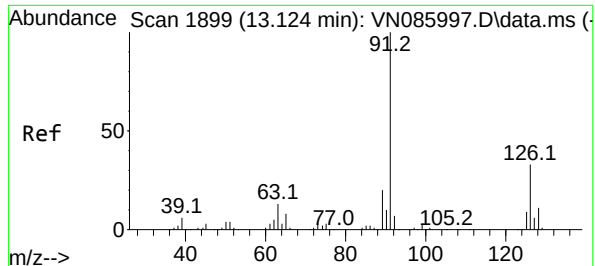
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#78
n-propylbenzene
Concen: 54.089 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.000 min
Lab File: VN085997.D
Acq: 18 Mar 2025 12:08

Tgt Ion: 91 Resp: 576797
Ion Ratio Lower Upper
91 100
120 23.3 11.7 35.0





#79

2-Chlorotoluene

Concen: 51.012 ug/l

RT: 13.124 min Scan# 1899

Delta R.T. 0.000 min

Lab File: VN085997.D

Acq: 18 Mar 2025 12:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 91 Resp: 361320

Ion Ratio Lower Upper

91 100

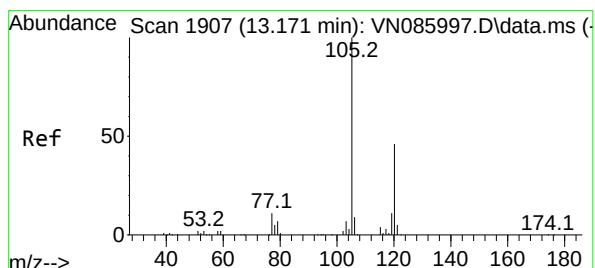
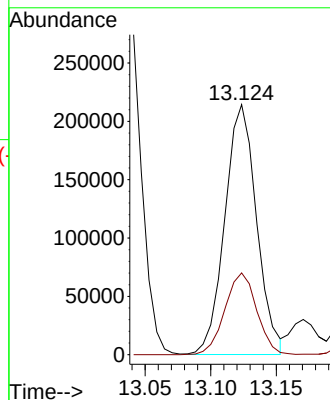
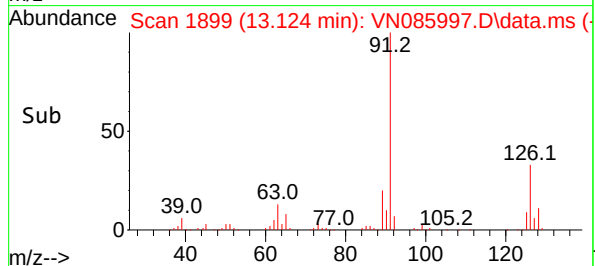
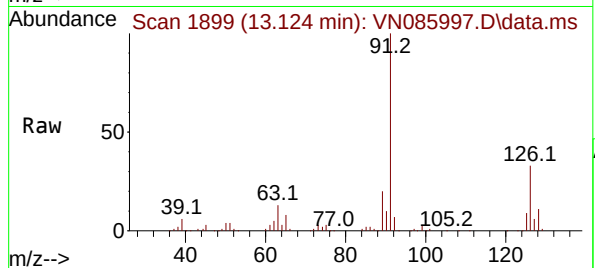
126 32.8 16.4 49.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#80

1,3,5-Trimethylbenzene

Concen: 54.088 ug/l

RT: 13.171 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VN085997.D

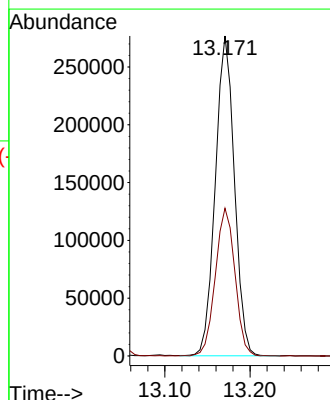
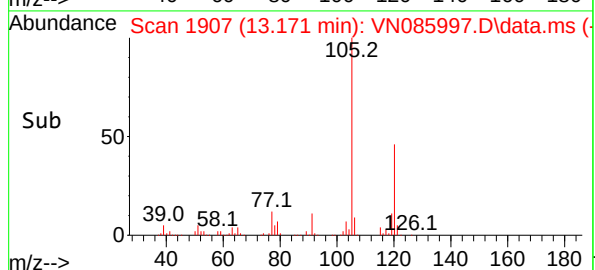
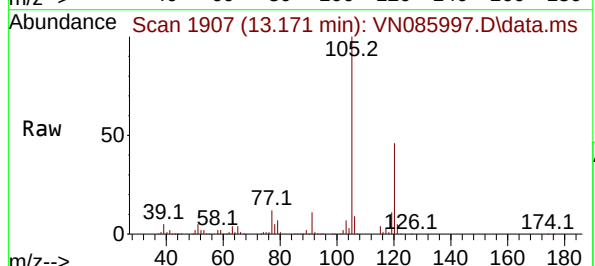
Acq: 18 Mar 2025 12:08

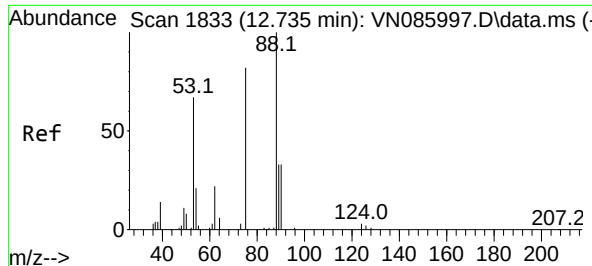
Tgt Ion:105 Resp: 430051

Ion Ratio Lower Upper

105 100

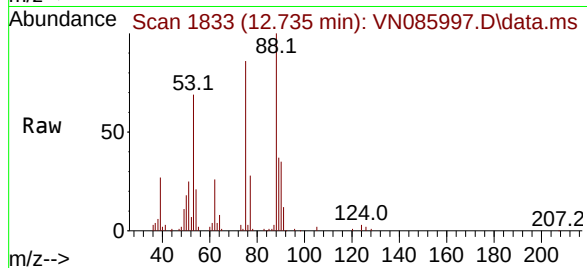
120 47.4 23.7 71.1





#81
trans-1,4-Dichloro-2-butene
Concen: 48.881 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. 0.000 min
Lab File: VN085997.D
Acq: 18 Mar 2025 12:08

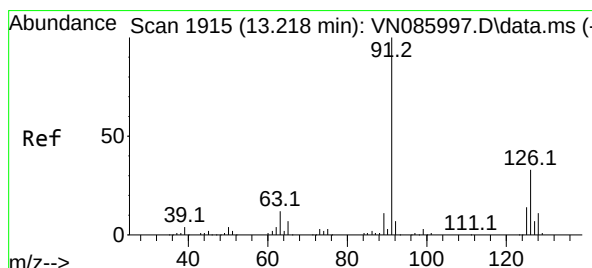
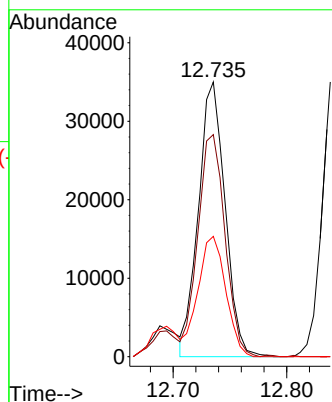
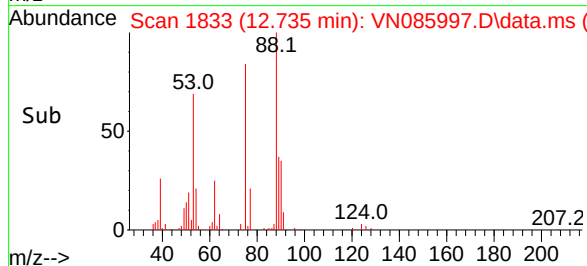
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



Tgt Ion: 75 Resp: 57082
Ion Ratio Lower Upper
75 100
53 82.5 66.0 99.0
89 46.1 36.9 55.3

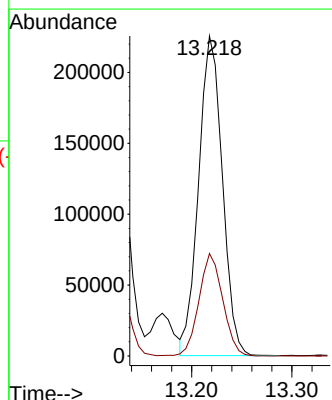
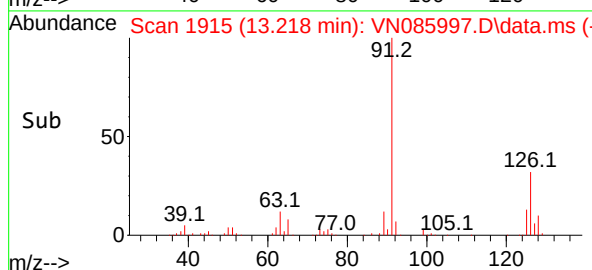
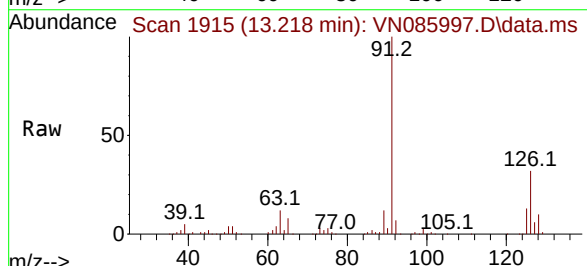
Manual Integrations
APPROVED

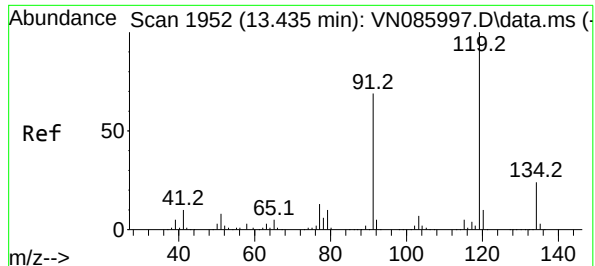
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#82
4-Chlorotoluene
Concen: 51.036 ug/l
RT: 13.218 min Scan# 1915
Delta R.T. 0.000 min
Lab File: VN085997.D
Acq: 18 Mar 2025 12:08

Tgt Ion: 91 Resp: 371739
Ion Ratio Lower Upper
91 100
126 32.1 16.1 48.2





#83

tert-Butylbenzene

Concen: 51.660 ug/l

RT: 13.435 min Scan# 1952

Delta R.T. 0.000 min

Lab File: VN085997.D

Acq: 18 Mar 2025 12:08

Instrument :

MSVOA_N

ClientSampleId :

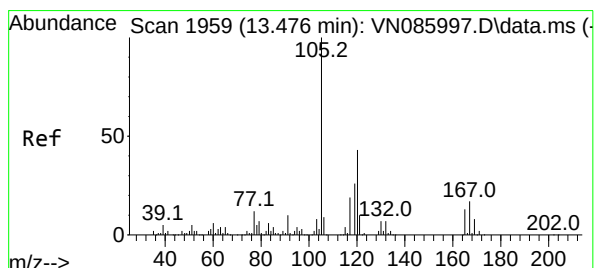
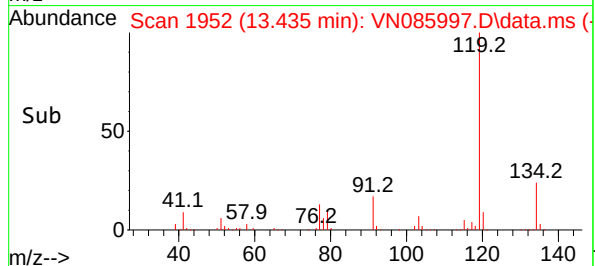
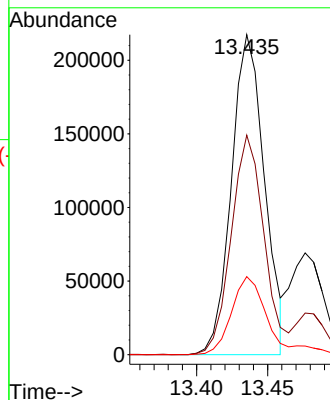
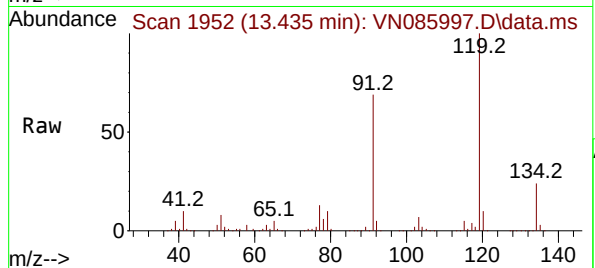
VSTDICCC050

Tgt Ion:119 Resp: 351299
Ion Ratio Lower Upper
119 100
91 68.6 34.3 102.9
134 27.0 13.5 40.5

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#84

1,2,4-Trimethylbenzene

Concen: 53.825 ug/l

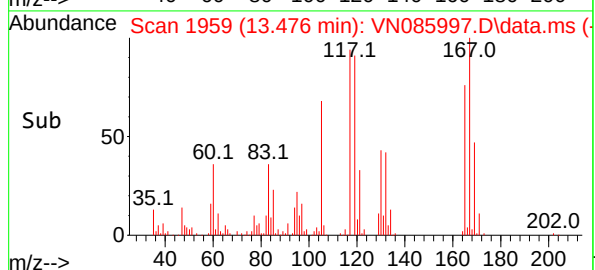
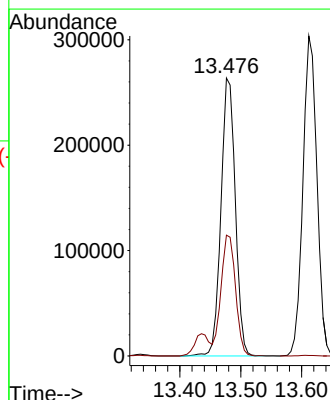
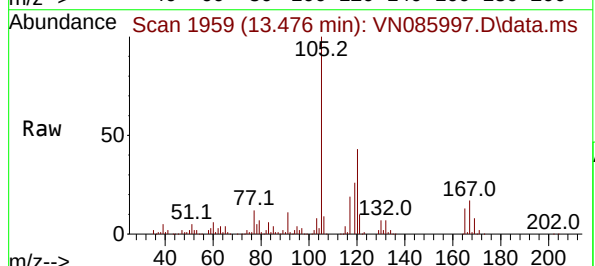
RT: 13.476 min Scan# 1959

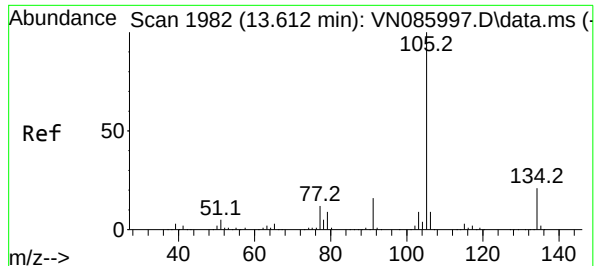
Delta R.T. 0.000 min

Lab File: VN085997.D

Acq: 18 Mar 2025 12:08

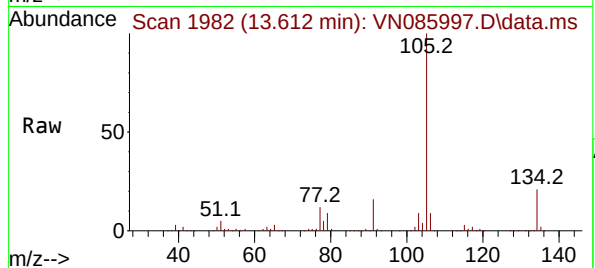
Tgt Ion:105 Resp: 431645
Ion Ratio Lower Upper
105 100
120 43.9 21.9 65.8





#85
sec-Butylbenzene
Concen: 54.622 ug/l
RT: 13.612 min Scan# 1982
Delta R.T. 0.000 min
Lab File: VN085997.D
Acq: 18 Mar 2025 12:08

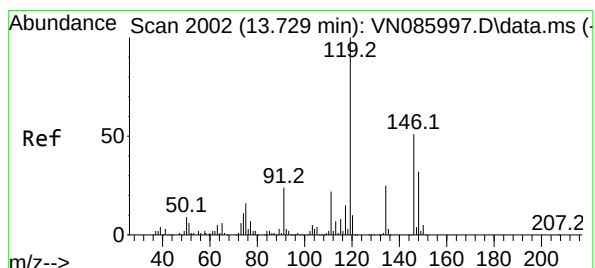
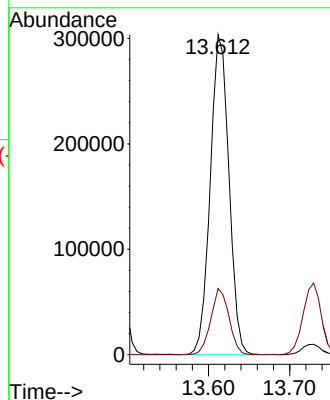
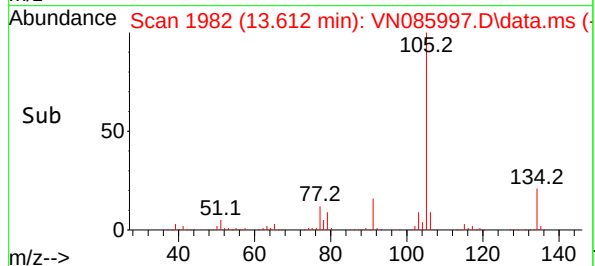
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



Tgt Ion:105 Resp: 48455
Ion Ratio Lower Upper
105 100
134 20.1 10.1 30.1

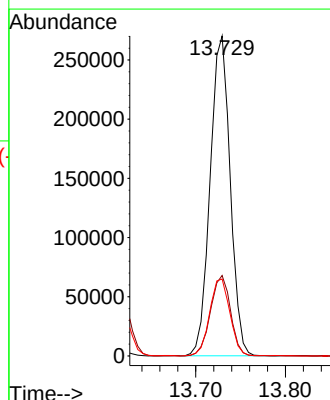
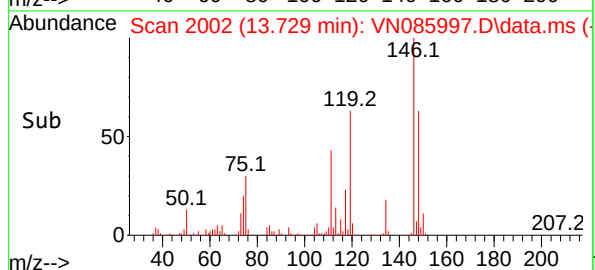
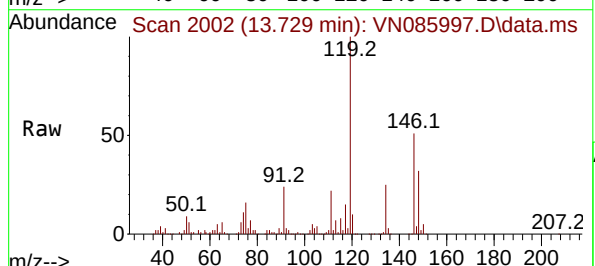
Manual Integrations
APPROVED

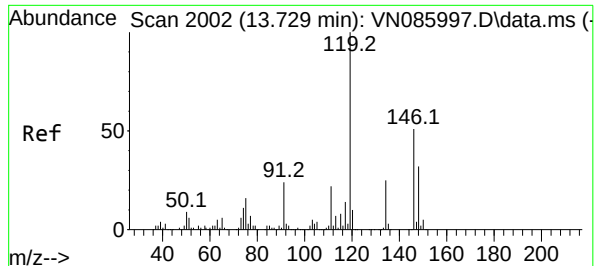
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#86
p-Isopropyltoluene
Concen: 55.774 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN085997.D
Acq: 18 Mar 2025 12:08

Tgt Ion:119 Resp: 418830
Ion Ratio Lower Upper
119 100
134 25.2 12.6 37.8
91 24.5 12.3 36.8





#87

1,3-Dichlorobenzene

Concen: 49.090 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.000 min

Lab File: VN085997.D

Acq: 18 Mar 2025 12:08

Instrument :

MSVOA_N

ClientSampleId :

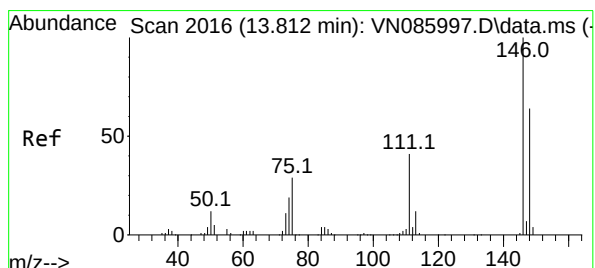
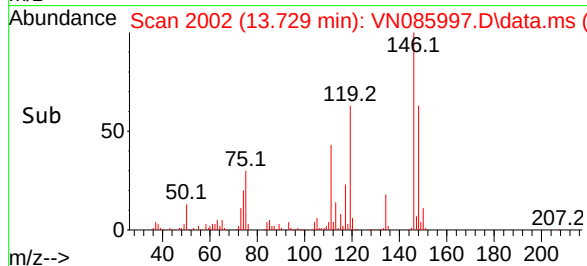
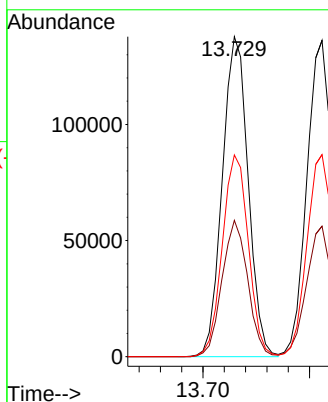
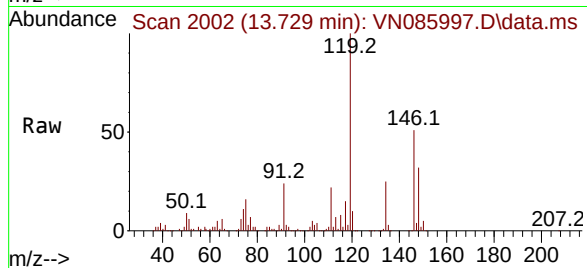
VSTDICCC050

Tgt Ion:	146	Resp:	23235
Ion Ratio	Lower	Upper	
146	100		
111	42.4	21.2	63.6
148	63.6	31.8	95.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#88

1,4-Dichlorobenzene

Concen: 46.213 ug/l

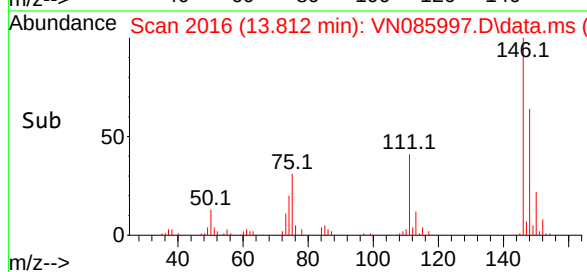
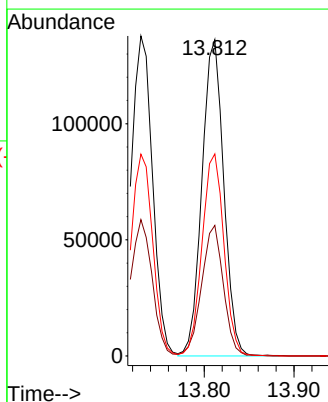
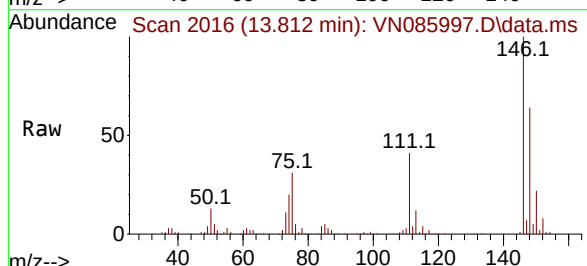
RT: 13.812 min Scan# 2016

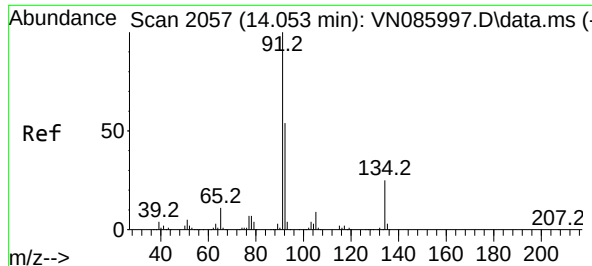
Delta R.T. 0.000 min

Lab File: VN085997.D

Acq: 18 Mar 2025 12:08

Tgt Ion:	146	Resp:	229820
Ion Ratio	Lower	Upper	
146	100		
111	40.9	20.4	61.3
148	64.3	32.1	96.5





#89

n-Butylbenzene

Concen: 54.669 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. 0.000 min

Lab File: VN085997.D

Acq: 18 Mar 2025 12:08

Instrument :

MSVOA_N

ClientSampleId :

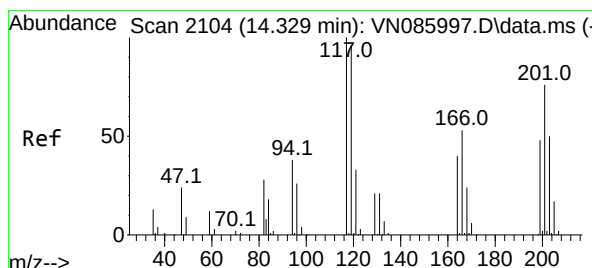
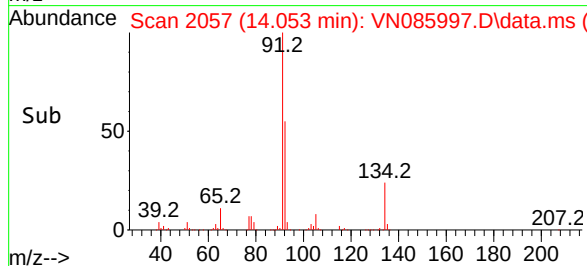
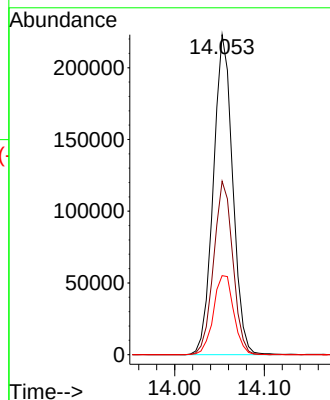
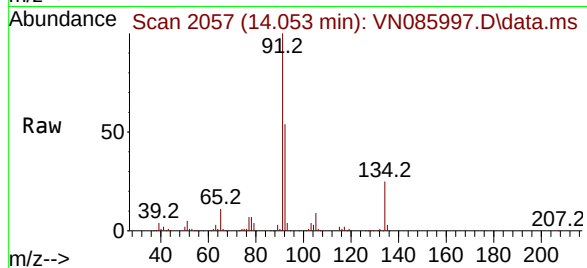
VSTDICCC050

Tgt Ion:	91	Resp:	334309
Ion	Ratio	Lower	Upper
91	100		
92	53.7	26.9	80.6
134	26.0	13.0	39.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#90

Hexachloroethane

Concen: 46.350 ug/l

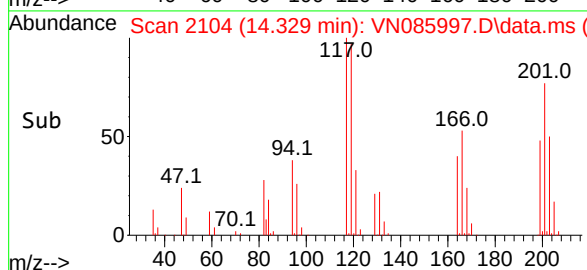
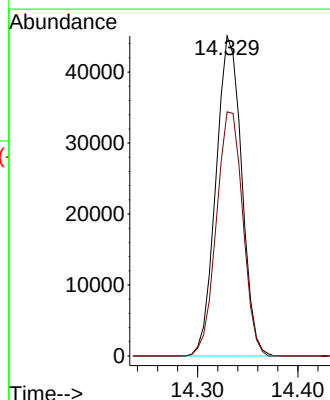
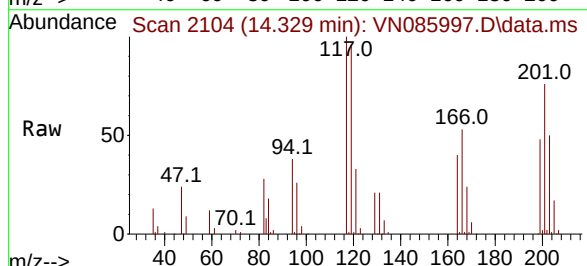
RT: 14.329 min Scan# 2104

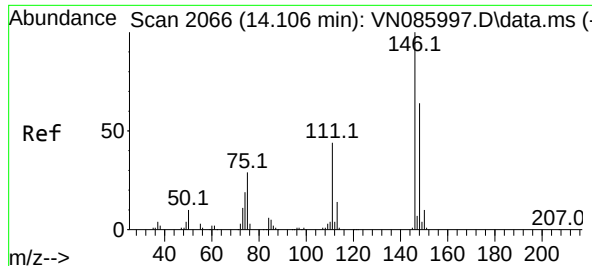
Delta R.T. 0.000 min

Lab File: VN085997.D

Acq: 18 Mar 2025 12:08

Tgt Ion:	117	Resp:	80312
Ion	Ratio	Lower	Upper
117	100		
201	78.2	39.1	117.3





#91

1,2-Dichlorobenzene

Concen: 46.825 ug/l

RT: 14.106 min Scan# 2066

Delta R.T. 0.000 min

Lab File: VN085997.D

Acq: 18 Mar 2025 12:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion:146 Resp: 220320

Ion Ratio Lower Upper

146 100

111 44.5 22.3 66.8

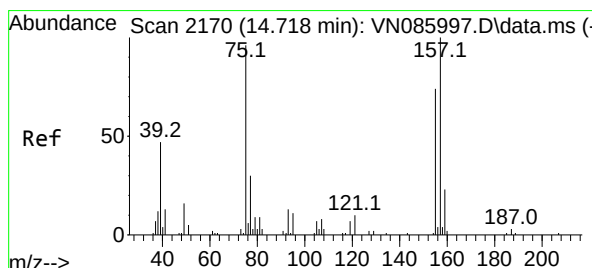
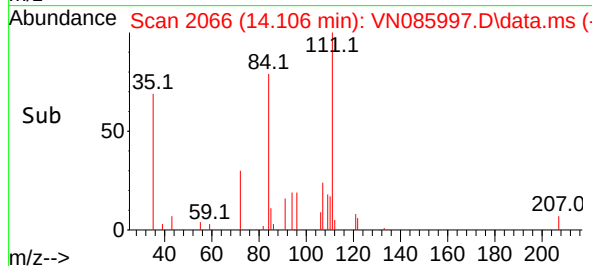
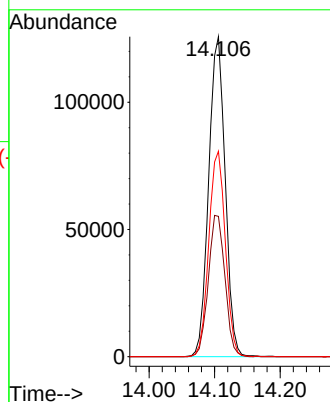
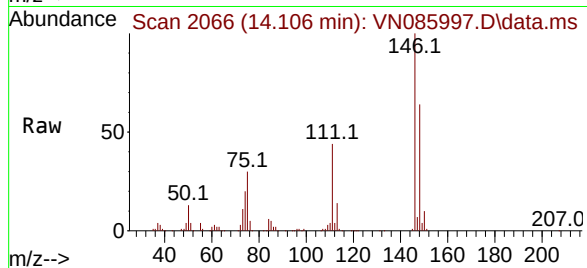
148 64.3 32.1 96.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#92

1,2-Dibromo-3-Chloropropane

Concen: 48.010 ug/l

RT: 14.718 min Scan# 2170

Delta R.T. 0.000 min

Lab File: VN085997.D

Acq: 18 Mar 2025 12:08

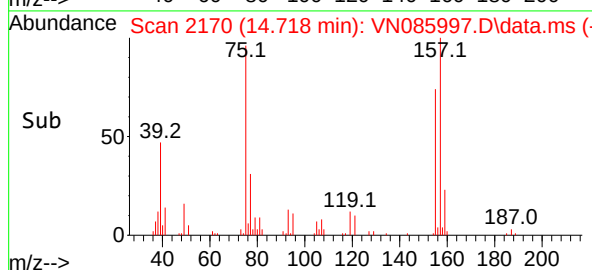
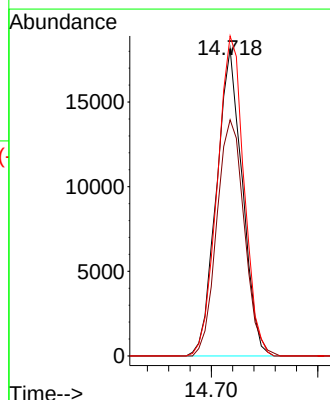
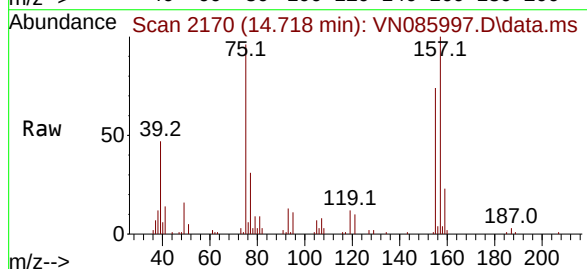
Tgt Ion: 75 Resp: 30533

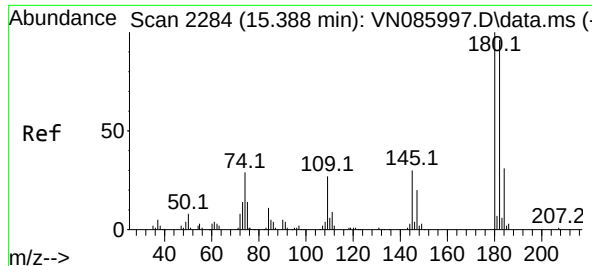
Ion Ratio Lower Upper

75 100

155 82.0 41.0 123.0

157 107.4 53.7 161.1





#93

1,2,4-Trichlorobenzene

Concen: 49.573 ug/l

RT: 15.388 min Scan# 21

Delta R.T. 0.000 min

Lab File: VN085997.D

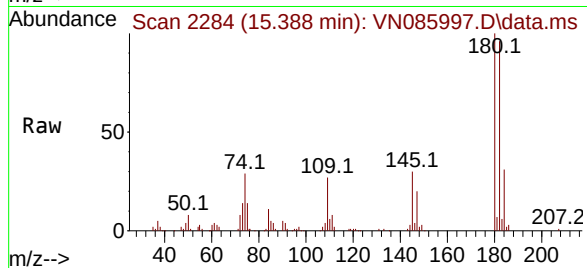
Acq: 18 Mar 2025 12:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

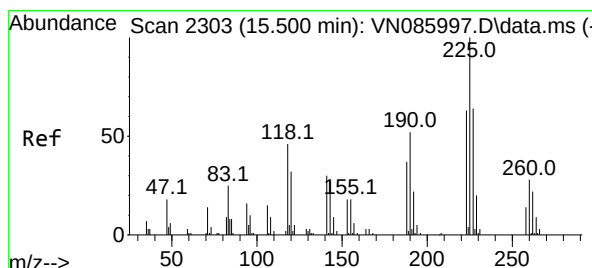
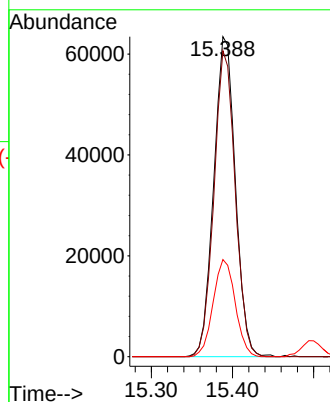
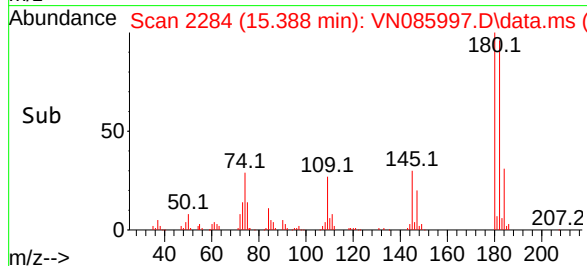


Tgt Ion:	180	Resp:	11728
Ion Ratio	Lower	Upper	
180	100		
182	94.0	47.0	141.0
145	31.0	15.5	46.5

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#94

Hexachlorobutadiene

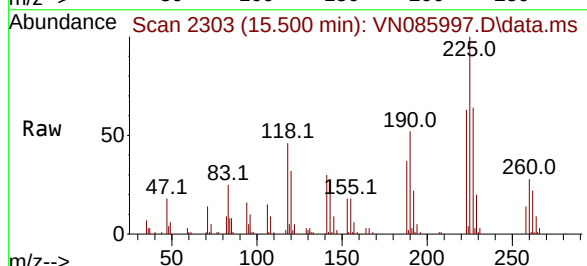
Concen: 44.428 ug/l

RT: 15.500 min Scan# 2303

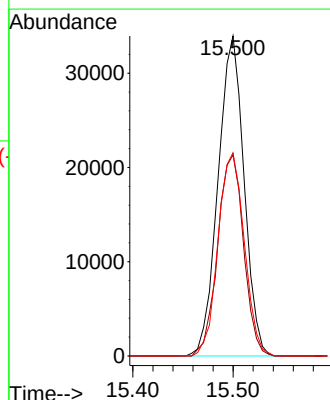
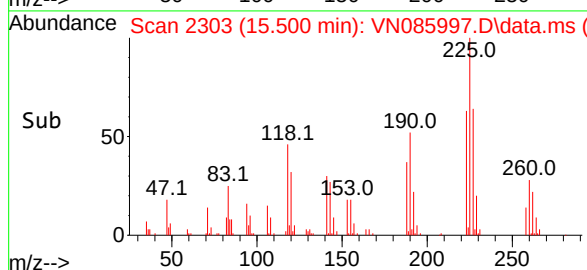
Delta R.T. 0.000 min

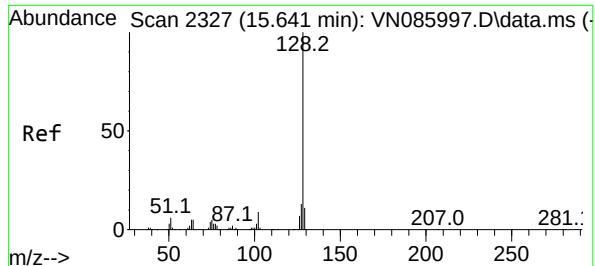
Lab File: VN085997.D

Acq: 18 Mar 2025 12:08



Tgt Ion:	225	Resp:	60983
Ion Ratio	Lower	Upper	
225	100		
223	62.6	31.3	93.9
227	64.2	32.1	96.3





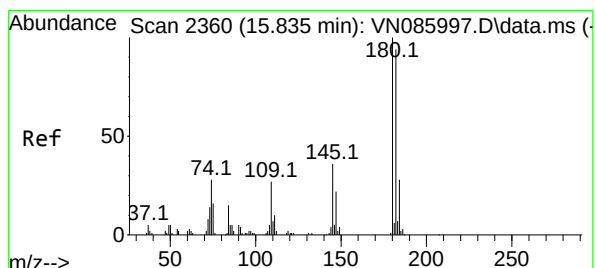
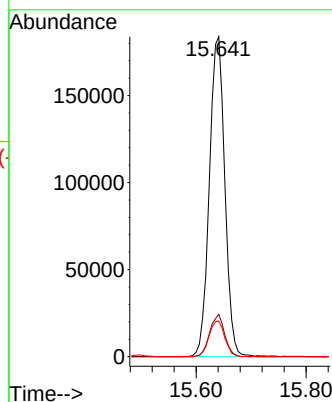
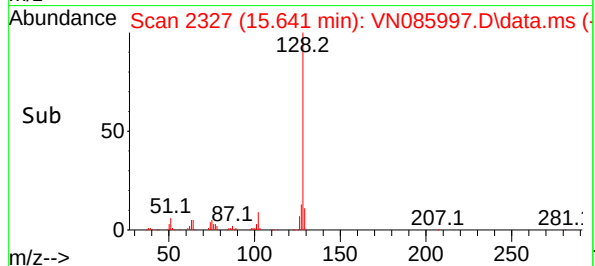
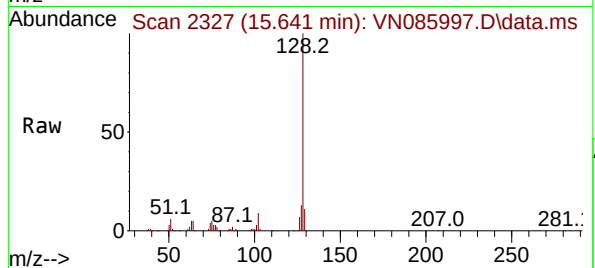
#95
Naphthalene
Concen: 52.451 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. 0.000 min
Lab File: VN085997.D
Acq: 18 Mar 2025 12:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion:128 Resp: 35933
Ion Ratio Lower Upper
128 100
127 12.8 10.2 15.4
129 11.3 9.0 13.6

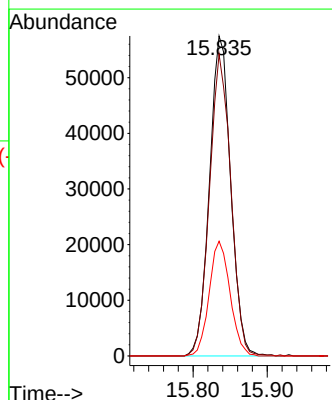
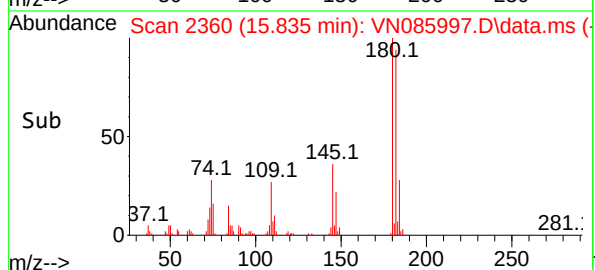
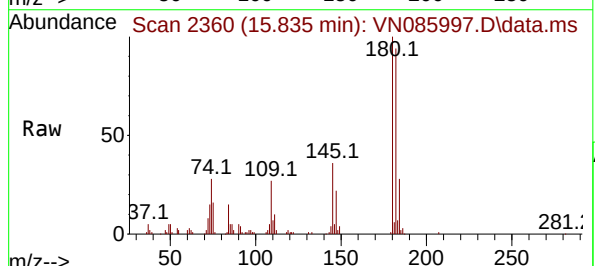
Manual Integrations
APPROVED

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



#96
1,2,3-Trichlorobenzene
Concen: 50.897 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. 0.000 min
Lab File: VN085997.D
Acq: 18 Mar 2025 12:08

Tgt Ion:180 Resp: 114262
Ion Ratio Lower Upper
180 100
182 95.0 47.5 142.5
145 35.4 17.7 53.1



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031825\
 Data File : VN085998.D
 Acq On : 18 Mar 2025 12:32
 Operator : JC\MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC020

Quant Time: Mar 19 02:54:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 19 02:30:27 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

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

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	180263	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	284537	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	251681	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	125230	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	48218	19.534	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	39.060%#		
35) Dibromofluoromethane	8.165	113	39531	19.905	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	39.800%#		
50) Toluene-d8	10.565	98	142597	19.783	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	39.560%#		
62) 4-Bromofluorobenzene	12.847	95	50895	19.799	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	39.600%#		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	43250	18.110	ug/l	96
3) Chloromethane	2.359	50	37051	17.697	ug/l	98
4) Vinyl Chloride	2.506	62	39037	18.236	ug/l	98
5) Bromomethane	2.942	94	27158	18.625	ug/l	97
6) Chloroethane	3.106	64	24077	17.829	ug/l #	86
7) Trichlorofluoromethane	3.495	101	69126	17.963	ug/l	99
8) Diethyl Ether	3.959	74	22721	19.287	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.365	101	36929	18.056	ug/l	99
10) Methyl Iodide	4.583	142	49138	18.439	ug/l	91
11) Tert butyl alcohol	5.518	59	32886	94.099	ug/l	99
12) 1,1-Dichloroethene	4.336	96	34693	18.786	ug/l	95
13) Acrolein	4.177	56	37669	101.056	ug/l	99
14) Allyl chloride	5.018	41	41227	17.894	ug/l	99
15) Acrylonitrile	5.718	53	88238	95.601	ug/l	98
16) Acetone	4.424	43	64377	85.367	ug/l	97
17) Carbon Disulfide	4.706	76	105800	17.420	ug/l	100
18) Methyl Acetate	5.024	43	31321	16.787	ug/l	98
19) Methyl tert-butyl Ether	5.794	73	113784	18.802	ug/l	96
20) Methylene Chloride	5.277	84	39757	18.021	ug/l	93
21) trans-1,2-Dichloroethene	5.789	96	37536	18.598	ug/l	98
22) Diisopropyl ether	6.671	45	94961	19.341	ug/l	94
23) Vinyl Acetate	6.600	43	369355m	99.232	ug/l	
24) 1,1-Dichloroethane	6.565	63	65460	18.131	ug/l	100
25) 2-Butanone	7.483	43	99742	91.662	ug/l	96
26) 2,2-Dichloropropane	7.488	77	63430	18.249	ug/l	98
27) cis-1,2-Dichloroethene	7.483	96	42598	18.573	ug/l	98
28) Bromochloromethane	7.812	49	28688	18.755	ug/l	99
29) Tetrahydrofuran	7.841	42	65915	98.119	ug/l	99
30) Chloroform	7.965	83	72867	18.259	ug/l	97
31) Cyclohexane	8.253	56	55179	17.940	ug/l	95
32) 1,1,1-Trichloroethane	8.171	97	69390	18.369	ug/l	95
36) 1,1-Dichloropropene	8.371	75	47900	18.317	ug/l	100
37) Ethyl Acetate	7.559	43	41696	18.899	ug/l	99
38) Carbon Tetrachloride	8.353	117	63404	18.440	ug/l	92
39) Methylcyclohexane	9.600	83	47633	18.359	ug/l	94
40) Benzene	8.606	78	153432	18.690	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031825\
 Data File : VN085998.D
 Acq On : 18 Mar 2025 12:32
 Operator : JC\MD
 Sample : VSTDIC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025

Quant Time: Mar 19 02:54:15 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M

Quant Title : SW846 8260

QLast Update : Wed Mar 19 02:30:27 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	21324	20.242	ug/l	96
42) 1,2-Dichloroethane	8.671	62	52637	18.401	ug/l	100
43) Isopropyl Acetate	8.688	43	90251m	18.838	ug/l	
44) Trichloroethene	9.353	130	38098	17.906	ug/l	94
45) 1,2-Dichloropropane	9.618	63	36309	19.446	ug/l	98
46) Dibromomethane	9.706	93	26612	18.123	ug/l	98
47) Bromodichloromethane	9.888	83	57646	18.784	ug/l	96
48) Methyl methacrylate	9.677	41	30533	19.354	ug/l	99
49) 1,4-Dioxane	9.694	88	14060	377.006	ug/l	90
51) 4-Methyl-2-Pentanone	10.441	43	209460	99.344	ug/l	98
52) Toluene	10.629	92	98133	19.476	ug/l	99
53) t-1,3-Dichloropropene	10.835	75	57384	19.253	ug/l	96
54) cis-1,3-Dichloropropene	10.312	75	60620	19.278	ug/l	97
55) 1,1,2-Trichloroethane	11.012	97	35992	18.716	ug/l	96
56) Ethyl methacrylate	10.871	69	52684	20.039	ug/l	99
57) 1,3-Dichloropropane	11.159	76	61369	18.788	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.159	63	66141	69.674	ug/l	99
59) 2-Hexanone	11.194	43	152912	99.554	ug/l	98
60) Dibromochloromethane	11.359	129	46407	18.701	ug/l	98
61) 1,2-Dibromoethane	11.465	107	37071	18.777	ug/l	97
64) Tetrachloroethene	11.100	164	37287	18.572	ug/l	95
65) Chlorobenzene	11.888	112	107742	18.708	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.959	131	39102	18.264	ug/l	98
67) Ethyl Benzene	11.959	91	175592	19.060	ug/l	97
68) m/p-Xylenes	12.071	106	141029	38.948	ug/l	99
69) o-Xylene	12.394	106	65978	19.853	ug/l	99
70) Styrene	12.406	104	112279	19.780	ug/l	99
71) Bromoform	12.576	173	33086	18.487	ug/l #	99
73) Isopropylbenzene	12.694	105	162838	19.041	ug/l	100
74) N-amyl acetate	12.494	43	56163	19.630	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.935	83	52144	18.023	ug/l	99
76) 1,2,3-Trichloropropane	12.988	75	57493m	20.137	ug/l	
77) Bromobenzene	12.976	156	43969	18.439	ug/l	99
78) n-propylbenzene	13.035	91	189068	19.524	ug/l	99
79) 2-Chlorotoluene	13.123	91	123854	19.256	ug/l	100
80) 1,3,5-Trimethylbenzene	13.170	105	142528	19.740	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	21026	19.827	ug/l	94
82) 4-Chlorotoluene	13.218	91	128159	19.376	ug/l	99
83) tert-Butylbenzene	13.435	119	114669	18.570	ug/l	99
84) 1,2,4-Trimethylbenzene	13.482	105	144557	19.850	ug/l	100
85) sec-Butylbenzene	13.612	105	158970	19.734	ug/l	99
86) p-Isopropyltoluene	13.729	119	133733	19.611	ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	80845	18.809	ug/l	100
88) 1,4-Dichlorobenzene	13.812	146	81175	17.975	ug/l	99
89) n-Butylbenzene	14.053	91	103559	18.649	ug/l	98
90) Hexachloroethane	14.329	117	27141	17.249	ug/l	100
91) 1,2-Dichlorobenzene	14.106	146	76225	17.839	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	10795	18.692	ug/l	93
93) 1,2,4-Trichlorobenzene	15.388	180	39028	18.166	ug/l	98
94) Hexachlorobutadiene	15.494	225	22741	18.244	ug/l	98
95) Naphthalene	15.635	128	115493	18.564	ug/l	99
96) 1,2,3-Trichlorobenzene	15.835	180	38684	18.975	ug/l	98

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Data File : VN085998.D
Acq On : 18 Mar 2025 12:32
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

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

Quant Time: Mar 19 02:54:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 19 02:30:27 2025
Response via : Initial Calibration

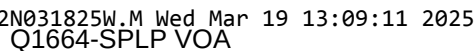
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

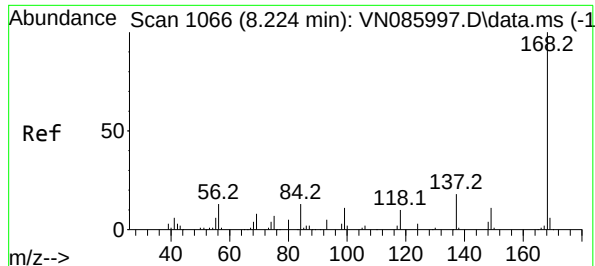
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Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations

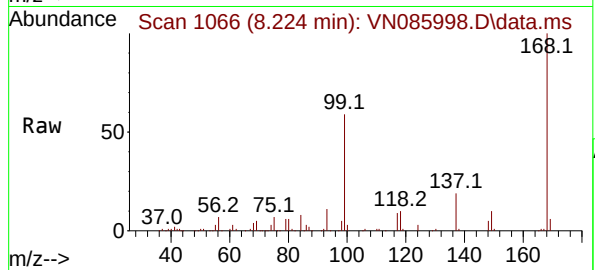
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN085998.D
Acq: 18 Mar 2025 12:32

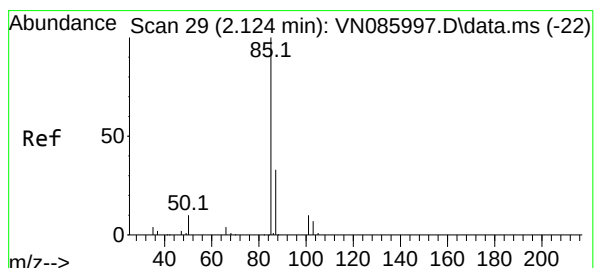
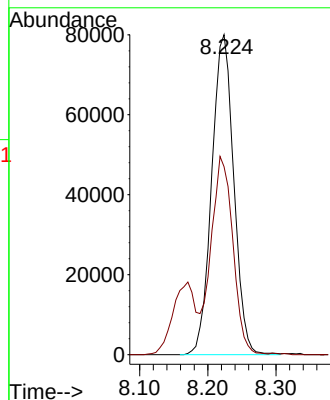
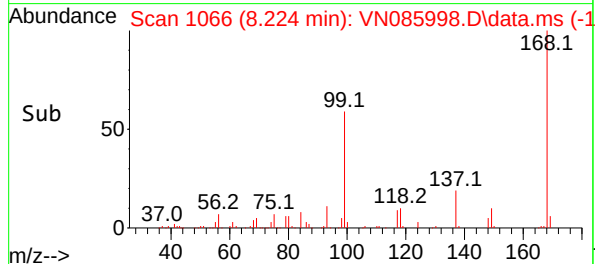
Instrument :
MSVOA_N
Client Sample Id :
VSTDICC020



Tgt Ion: 168 Resp: 18026
Ion Ratio Lower Upper
168 100
99 58.6 49.4 74.2

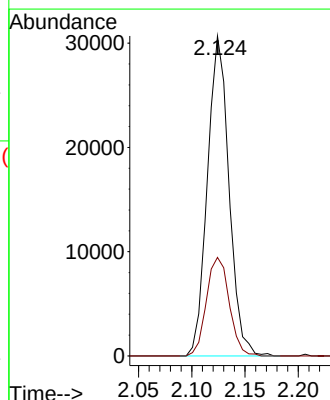
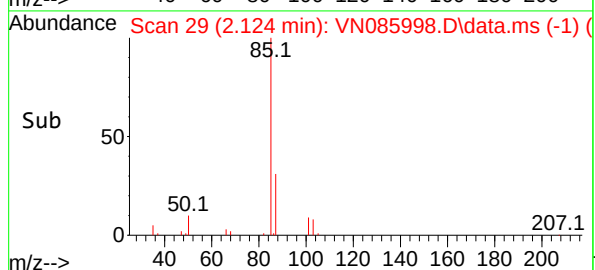
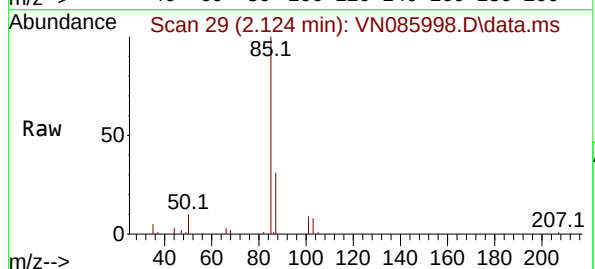
Manual Integrations
APPROVED

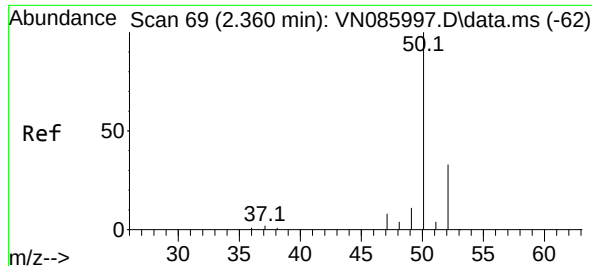
Reviewed By : John Carlone 03/19/2025
Supervised By : Mahesh Dadoda 03/19/2025



#2
Dichlorodifluoromethane
Concen: 18.110 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN085998.D
Acq: 18 Mar 2025 12:32

Tgt Ion: 85 Resp: 43250
Ion Ratio Lower Upper
85 100
87 30.8 16.5 49.5





#3

Chloromethane

Concen: 17.697 ug/l

RT: 2.359 min Scan# 69

Delta R.T. -0.000 min

Lab File: VN085998.D

Acq: 18 Mar 2025 12:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 50 Resp: 3705

Ion Ratio Lower Upper

50 100

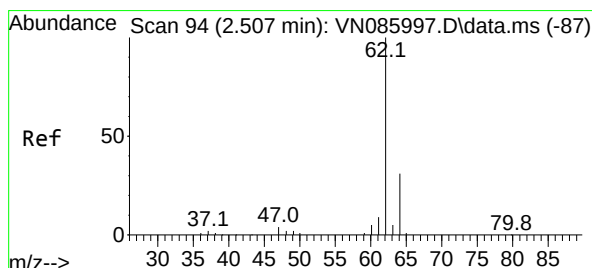
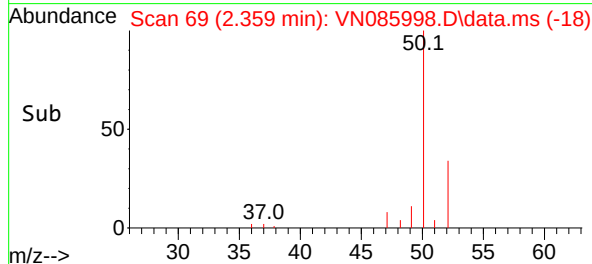
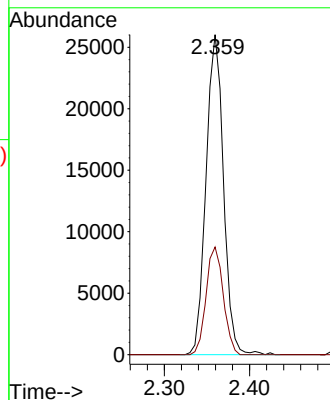
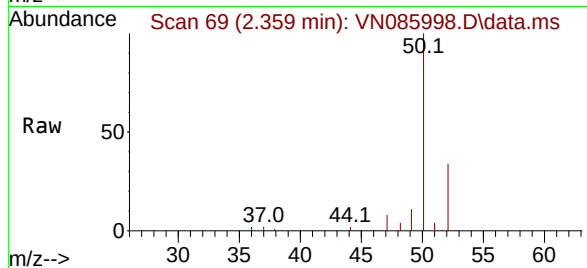
52 33.6 26.0 39.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#4

Vinyl Chloride

Concen: 18.236 ug/l

RT: 2.506 min Scan# 94

Delta R.T. -0.000 min

Lab File: VN085998.D

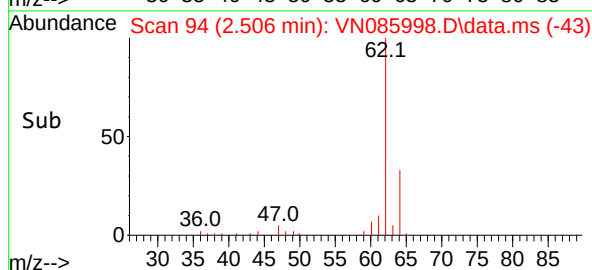
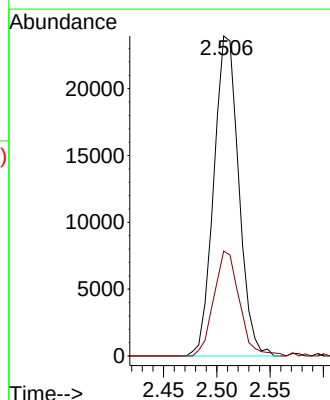
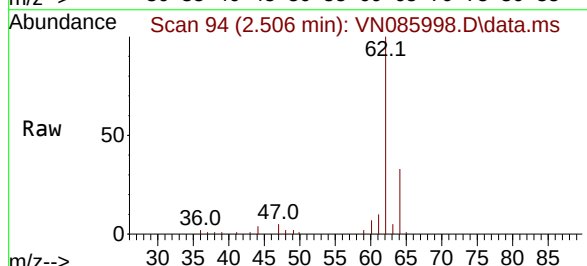
Acq: 18 Mar 2025 12:32

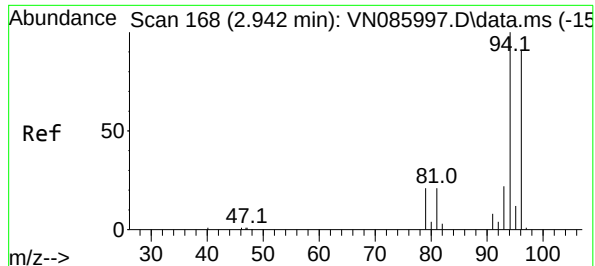
Tgt Ion: 62 Resp: 39037

Ion Ratio Lower Upper

62 100

64 32.8 25.2 37.8





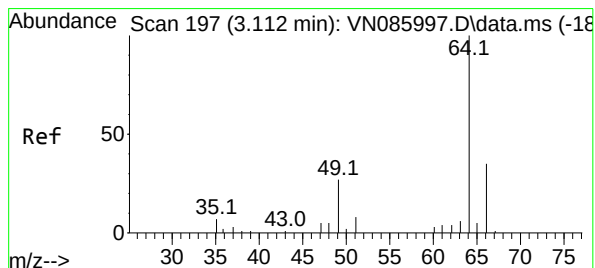
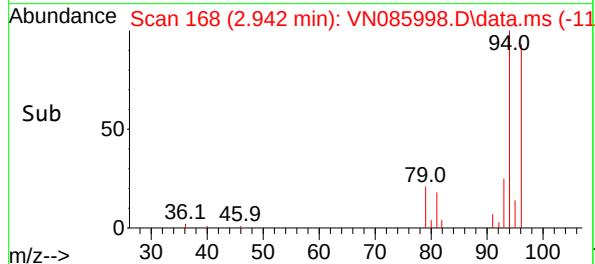
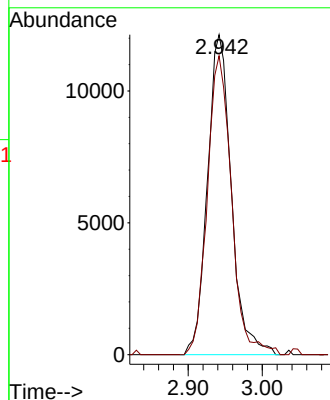
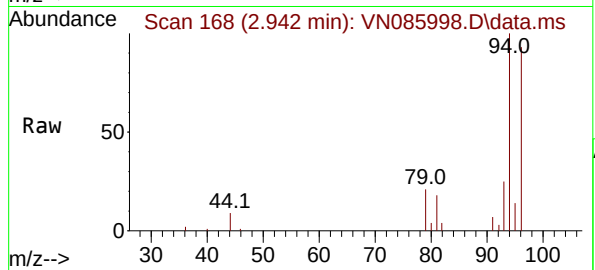
#5
Bromomethane
Concen: 18.625 ug/l
RT: 2.942 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN085998.D
Acq: 18 Mar 2025 12:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tgt Ion: 94 Resp: 27158
Ion Ratio Lower Upper
94 100
96 93.4 72.8 109.2

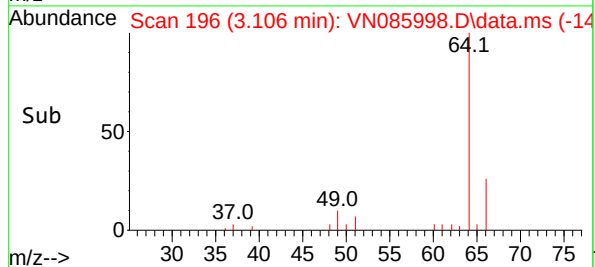
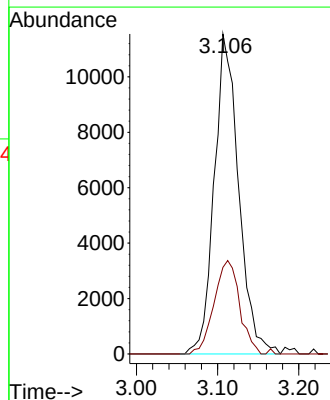
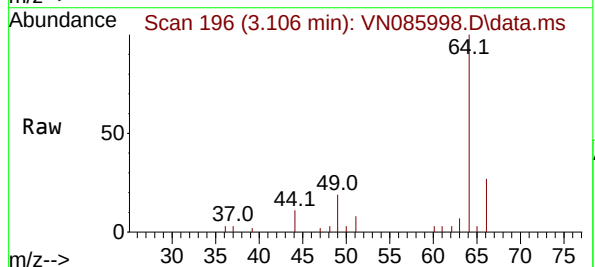
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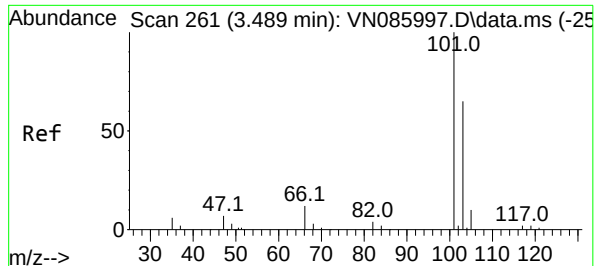
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#6
Chloroethane
Concen: 17.829 ug/l
RT: 3.106 min Scan# 196
Delta R.T. -0.006 min
Lab File: VN085998.D
Acq: 18 Mar 2025 12:32

Tgt Ion: 64 Resp: 24077
Ion Ratio Lower Upper
64 100
66 27.1 28.3 42.5#





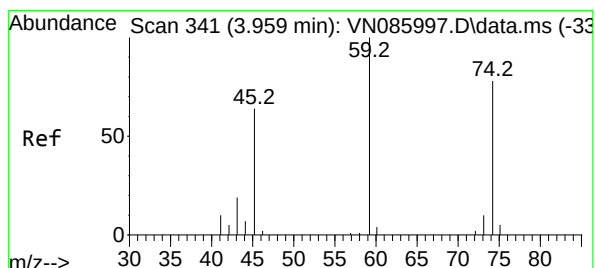
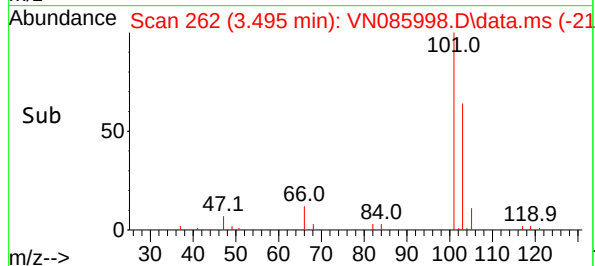
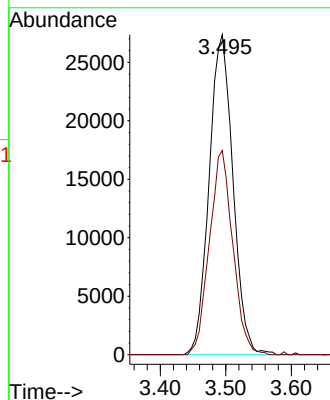
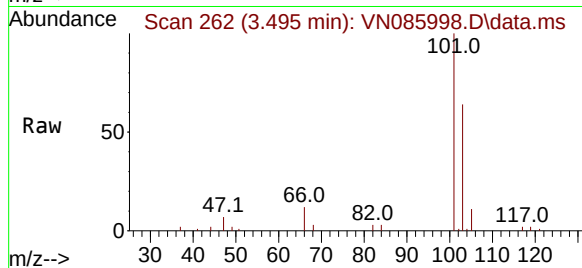
#7
Trichlorofluoromethane
Concen: 17.963 ug/l
RT: 3.495 min Scan# 261
Delta R.T. 0.006 min
Lab File: VN085998.D
Acq: 18 Mar 2025 12:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion:101 Resp: 69120
Ion Ratio Lower Upper
101 100
103 63.8 51.7 77.5

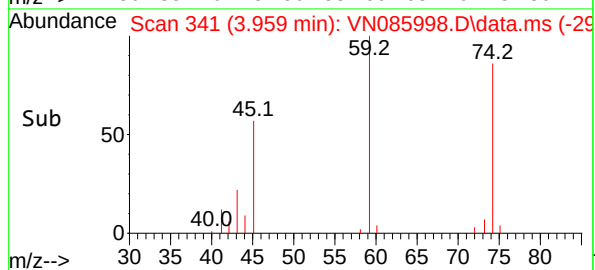
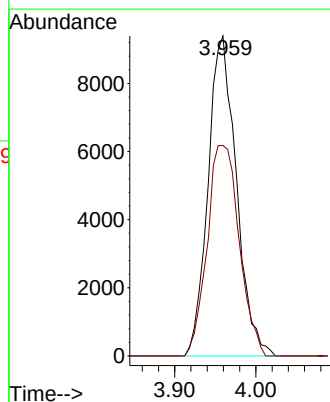
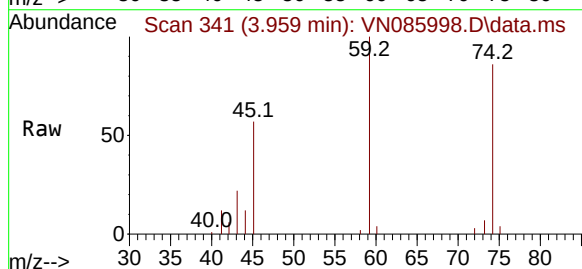
Manual Integrations
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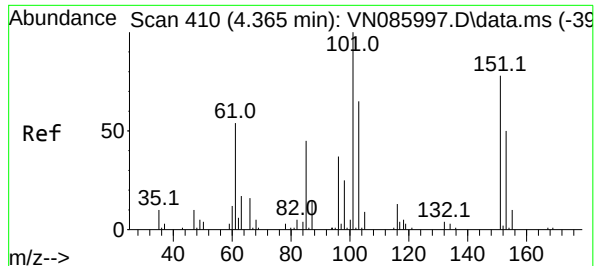
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#8
Diethyl Ether
Concen: 19.287 ug/l
RT: 3.959 min Scan# 341
Delta R.T. -0.000 min
Lab File: VN085998.D
Acq: 18 Mar 2025 12:32

Tgt Ion: 74 Resp: 22721
Ion Ratio Lower Upper
74 100
45 74.5 38.0 113.9





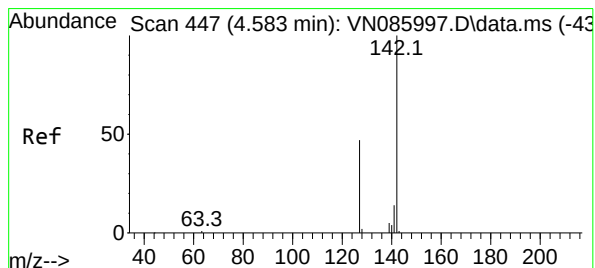
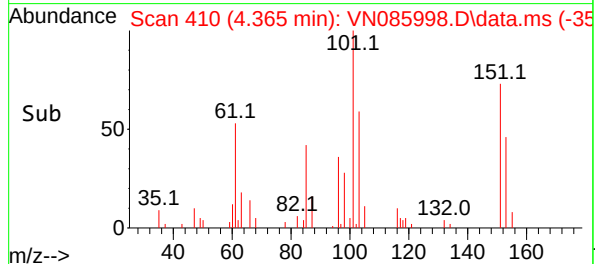
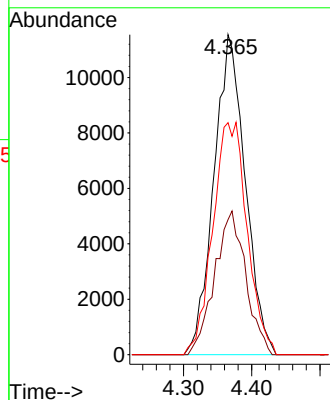
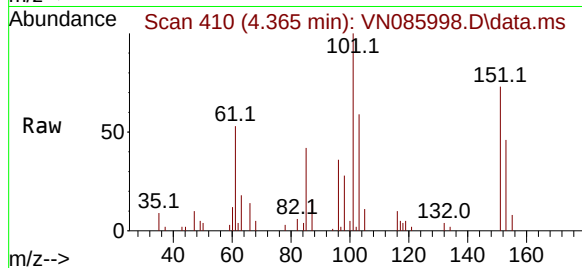
#9
1,1,2-Trichlorotrifluoroethane
Concen: 18.056 ug/l
RT: 4.365 min Scan# 410
Delta R.T. -0.000 min
Lab File: VN085998.D
Acq: 18 Mar 2025 12:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion:101 Resp: 36929
Ion Ratio Lower Upper
101 100
85 44.7 36.5 54.7
151 79.4 63.4 95.0

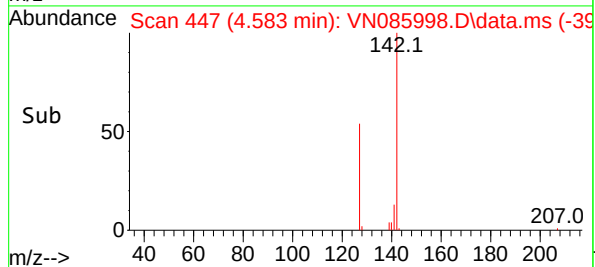
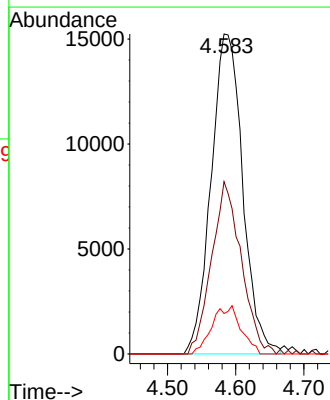
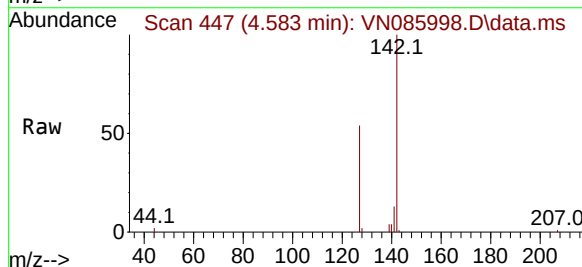
Manual Integrations
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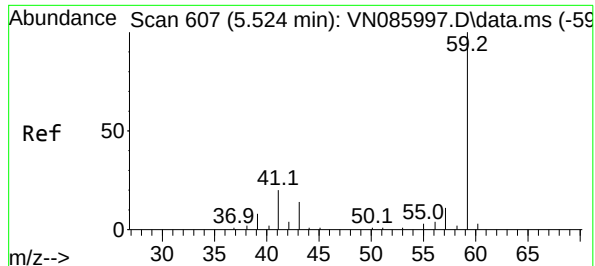
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#10
Methyl Iodide
Concen: 18.439 ug/l
RT: 4.583 min Scan# 447
Delta R.T. -0.000 min
Lab File: VN085998.D
Acq: 18 Mar 2025 12:32

Tgt Ion:142 Resp: 49138
Ion Ratio Lower Upper
142 100
127 53.9 37.5 56.3
141 12.7 11.0 16.6





#11

Tert butyl alcohol

Concen: 94.099 ug/l

RT: 5.518 min Scan# 607

Delta R.T. -0.006 min

Lab File: VN085998.D

Acq: 18 Mar 2025 12:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 59 Resp: 3288

Ion Ratio Lower Upper

59 100

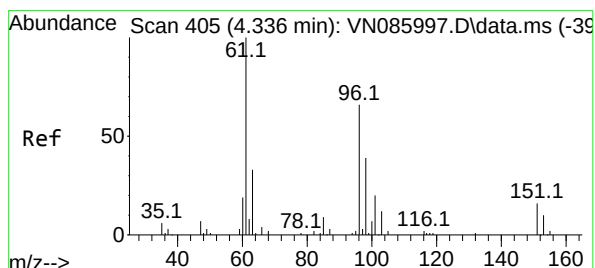
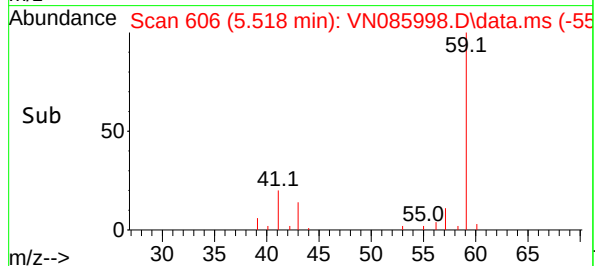
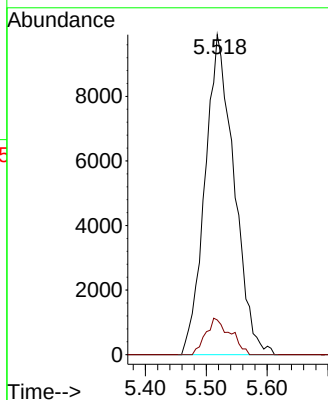
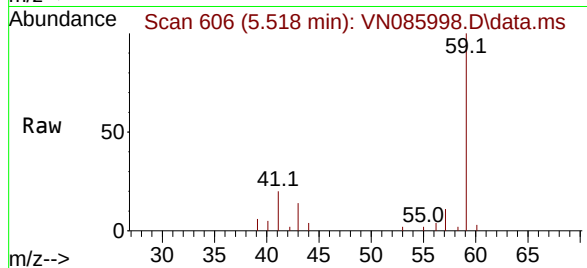
57 9.7 7.9 11.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#12

1,1-Dichloroethene

Concen: 18.786 ug/l

RT: 4.336 min Scan# 405

Delta R.T. -0.000 min

Lab File: VN085998.D

Acq: 18 Mar 2025 12:32

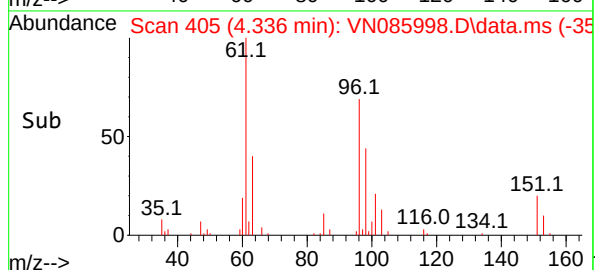
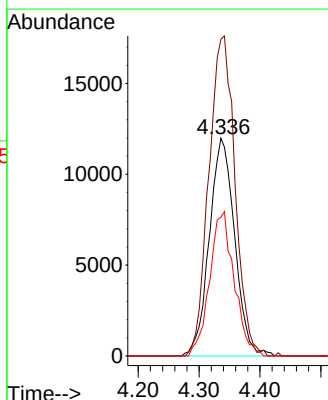
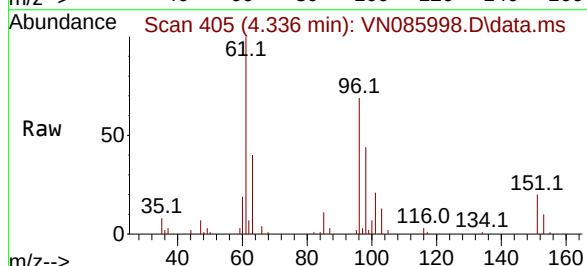
Tgt Ion: 96 Resp: 34693

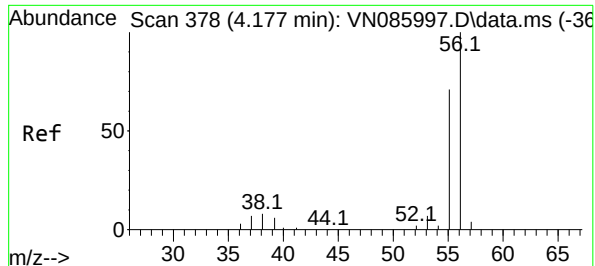
Ion Ratio Lower Upper

96 100

61 145.6 120.5 180.7

98 63.8 47.4 71.0





#13

Acrolein

Concen: 101.056 ug/l

RT: 4.177 min Scan# 31

Delta R.T. -0.000 min

Lab File: VN085998.D

Acq: 18 Mar 2025 12:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 56 Resp: 3766

Ion Ratio Lower Upper

56 100

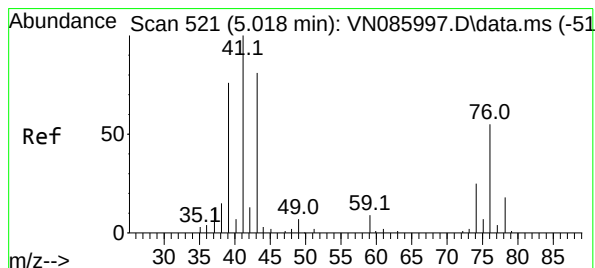
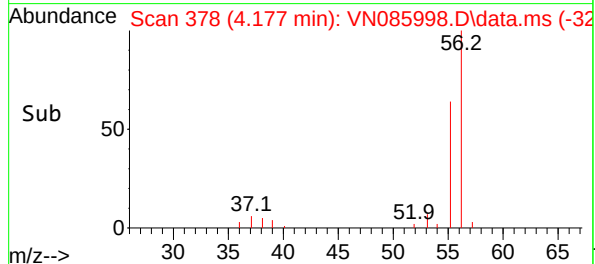
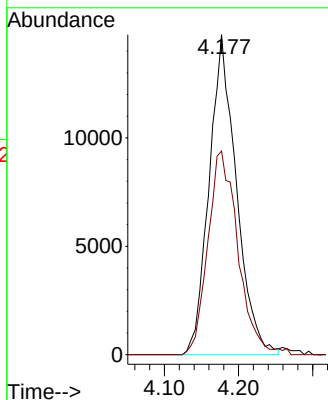
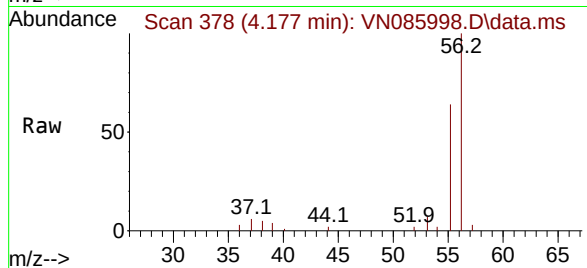
55 69.7 55.1 82.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#14

Allyl chloride

Concen: 17.894 ug/l

RT: 5.018 min Scan# 521

Delta R.T. -0.000 min

Lab File: VN085998.D

Acq: 18 Mar 2025 12:32

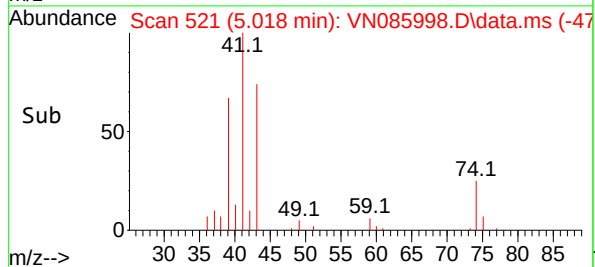
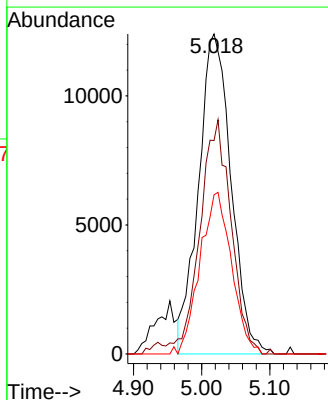
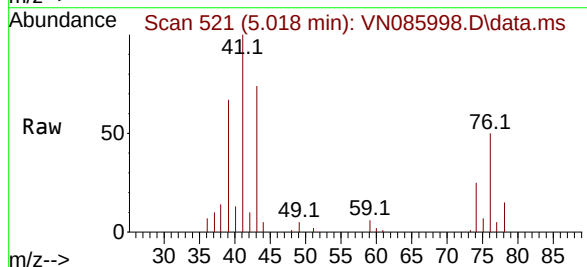
Tgt Ion: 41 Resp: 41227

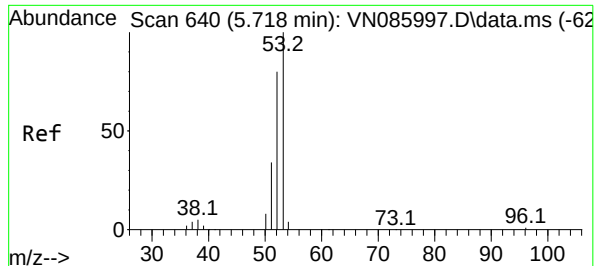
Ion Ratio Lower Upper

41 100

39 70.0 55.5 83.3

76 49.1 39.1 58.7





#15

Acrylonitrile

Concen: 95.601 ug/l

RT: 5.718 min Scan# 640

Delta R.T. -0.000 min

Lab File: VN085998.D

Acq: 18 Mar 2025 12:32

Instrument :

MSVOA_N

ClientSampleId :

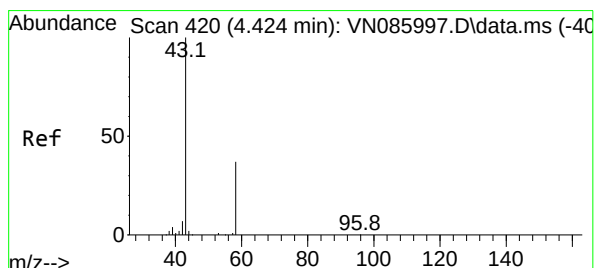
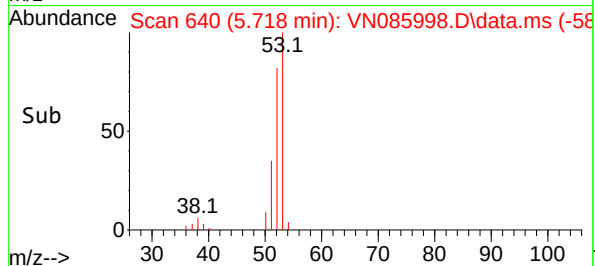
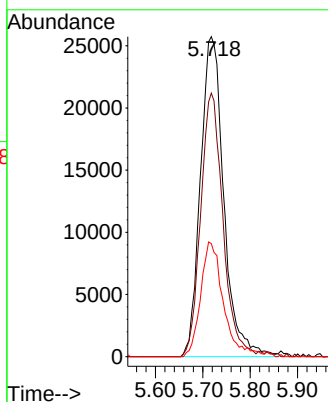
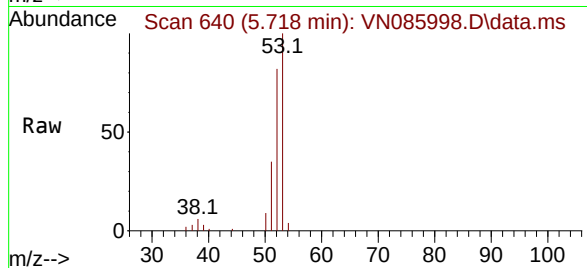
VSTDIC020

Tgt Ion:	53	Resp:	88238
Ion	Ratio	Lower	Upper
53	100		
52	78.1	63.9	95.9
51	34.8	27.1	40.7

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#16

Acetone

Concen: 85.367 ug/l

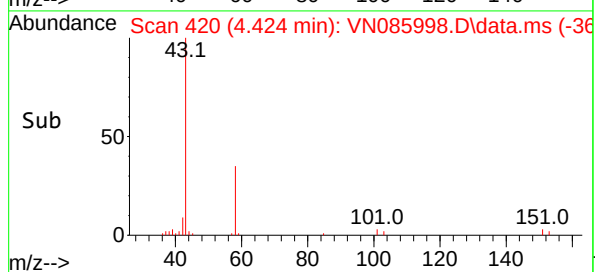
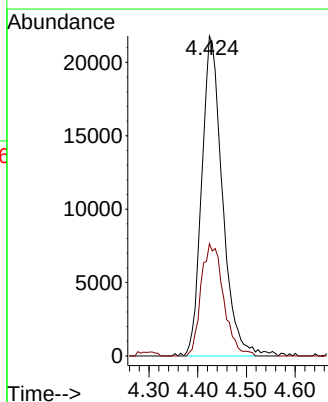
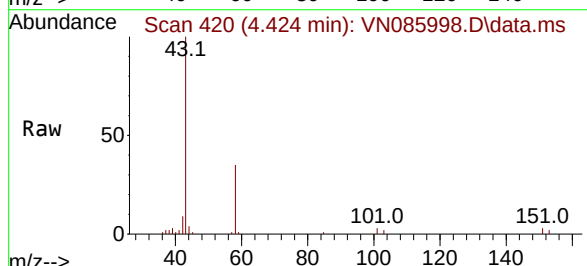
RT: 4.424 min Scan# 420

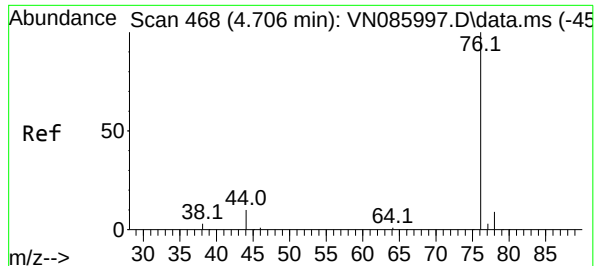
Delta R.T. -0.000 min

Lab File: VN085998.D

Acq: 18 Mar 2025 12:32

Tgt Ion:	43	Resp:	64377
Ion	Ratio	Lower	Upper
43	100		
58	35.0	29.4	44.2





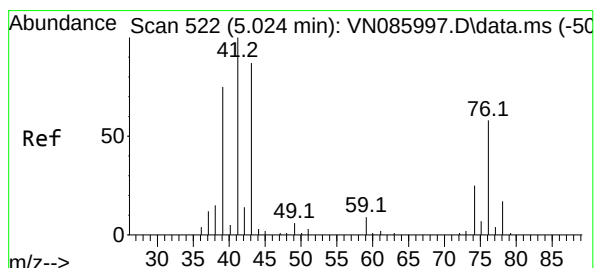
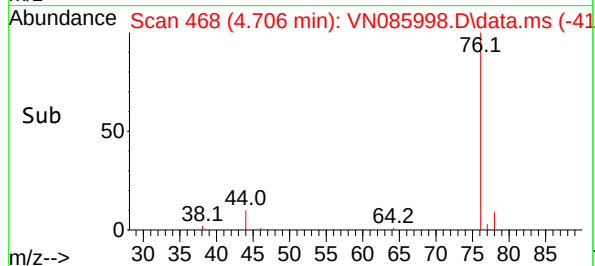
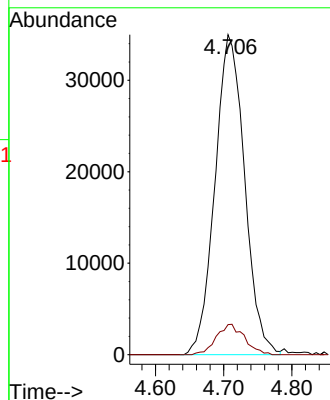
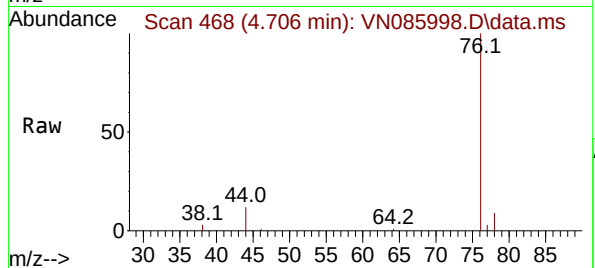
#17
Carbon Disulfide
Concen: 17.420 ug/l
RT: 4.706 min Scan# 408
Delta R.T. -0.000 min
Lab File: VN085998.D
Acq: 18 Mar 2025 12:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 76 Resp: 105800
Ion Ratio Lower Upper
76 100
78 9.4 7.4 11.2

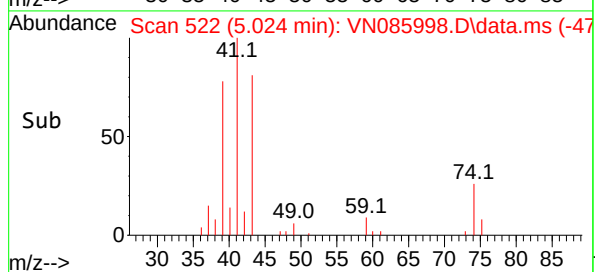
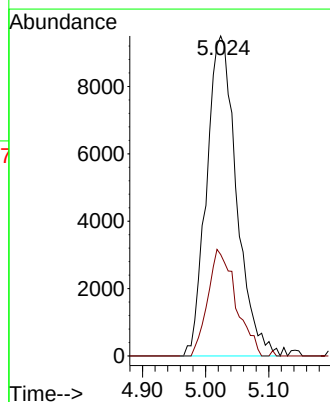
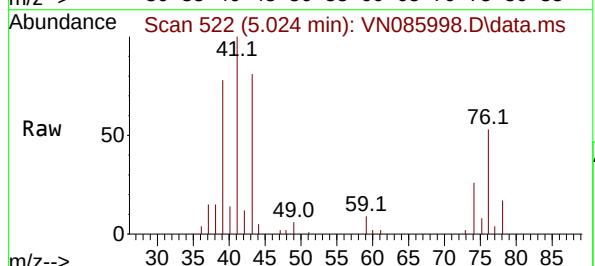
Manual Integrations
APPROVED

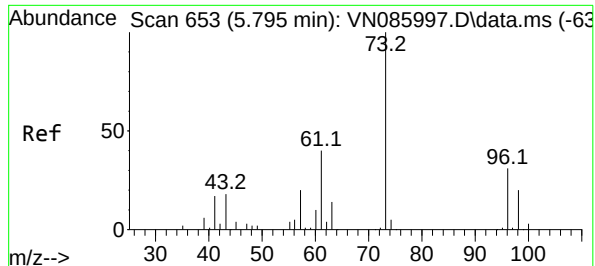
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#18
Methyl Acetate
Concen: 16.787 ug/l
RT: 5.024 min Scan# 522
Delta R.T. -0.000 min
Lab File: VN085998.D
Acq: 18 Mar 2025 12:32

Tgt Ion: 43 Resp: 31321
Ion Ratio Lower Upper
43 100
74 31.2 23.9 35.9





#19

Methyl tert-butyl Ether

Concen: 18.802 ug/l

RT: 5.794 min Scan# 61

Delta R.T. -0.000 min

Lab File: VN085998.D

Acq: 18 Mar 2025 12:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 73 Resp: 113784

Ion Ratio Lower Upper

73 100

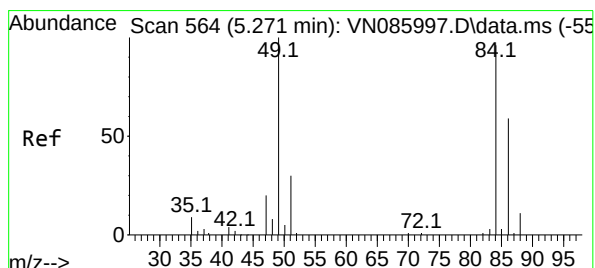
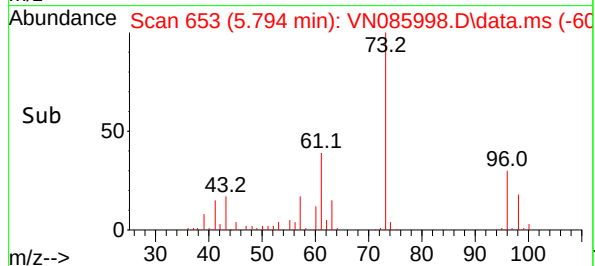
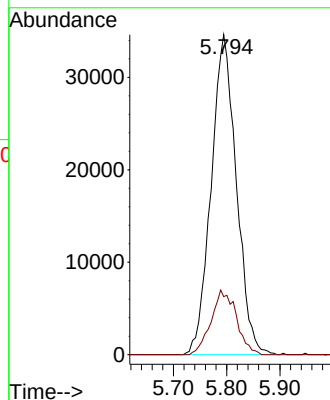
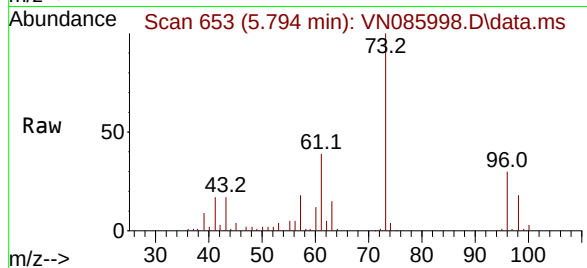
57 18.2 16.1 24.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#20

Methylene Chloride

Concen: 18.021 ug/l

RT: 5.277 min Scan# 565

Delta R.T. 0.006 min

Lab File: VN085998.D

Acq: 18 Mar 2025 12:32

Tgt Ion: 84 Resp: 39757

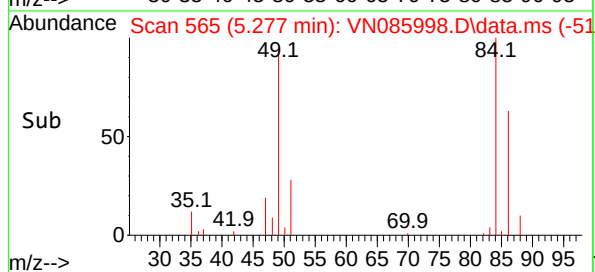
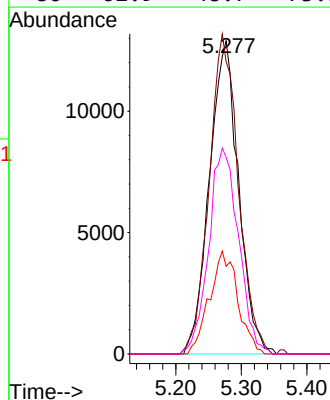
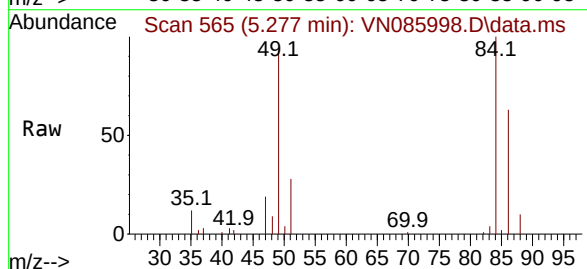
Ion Ratio Lower Upper

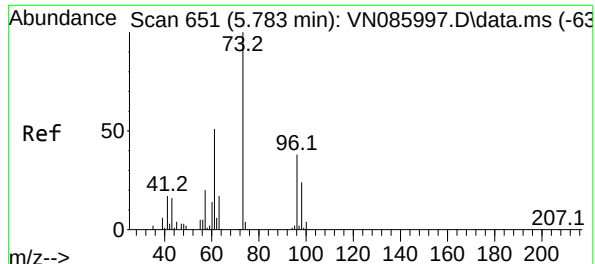
84 100

49 93.5 83.3 124.9

51 28.0 24.8 37.2

86 62.9 48.7 73.1





#21

trans-1,2-Dichloroethene

Concen: 18.598 ug/l

RT: 5.789 min Scan# 61

Delta R.T. 0.006 min

Lab File: VN085998.D

Acq: 18 Mar 2025 12:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

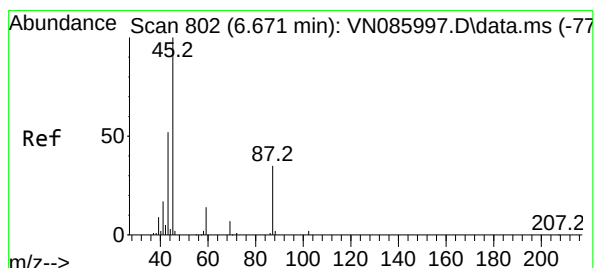
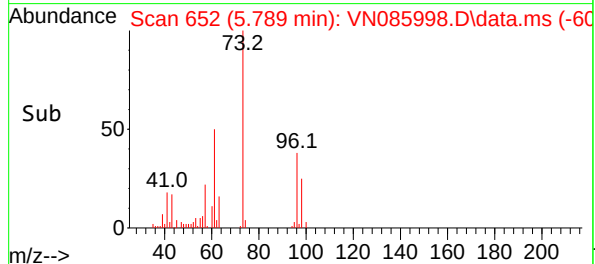
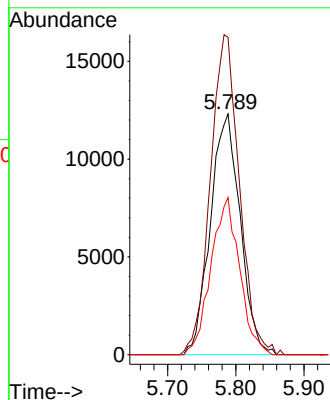
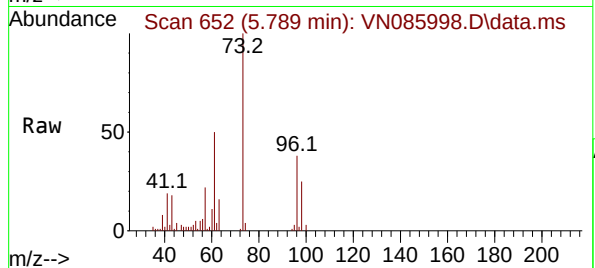
Tgt Ion:	96	Resp:	3753
Ion	Ratio	Lower	Upper
96	100		
61	132.0	106.6	160.0
98	65.3	50.0	75.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#22

Diisopropyl ether

Concen: 19.341 ug/l

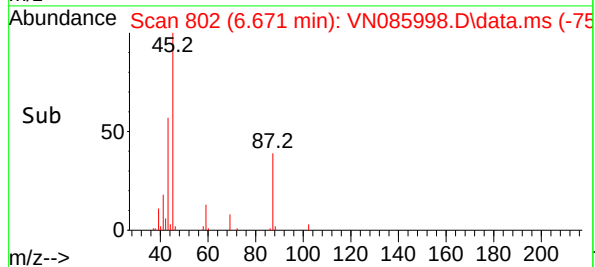
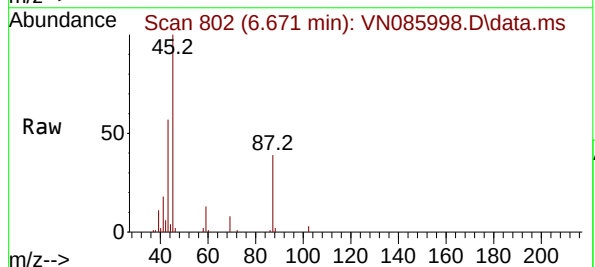
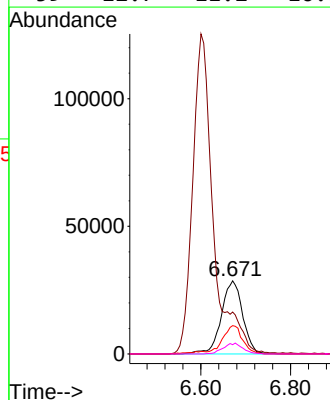
RT: 6.671 min Scan# 802

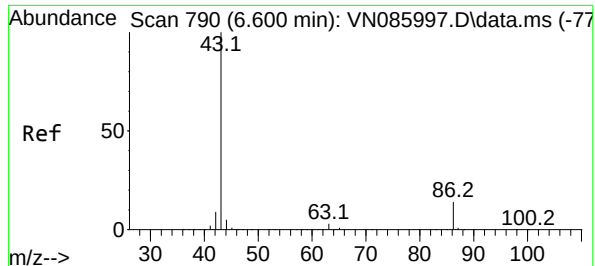
Delta R.T. -0.000 min

Lab File: VN085998.D

Acq: 18 Mar 2025 12:32

Tgt Ion:	45	Resp:	94961
Ion	Ratio	Lower	Upper
45	100		
43	56.2	41.2	61.8
87	38.8	28.5	42.7
59	12.7	11.2	16.8





#23

Vinyl Acetate

Concen: 99.232 ug/l m

RT: 6.600 min Scan# 790

Delta R.T. -0.000 min

Lab File: VN085998.D

Acq: 18 Mar 2025 12:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 43 Resp: 36935

Ion Ratio Lower Upper

43 100

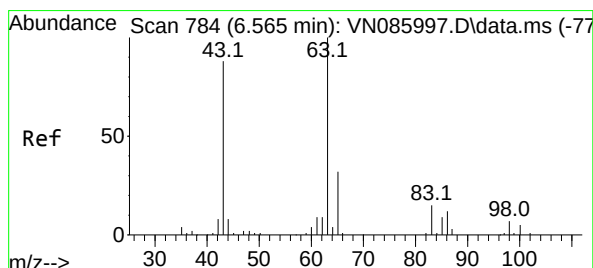
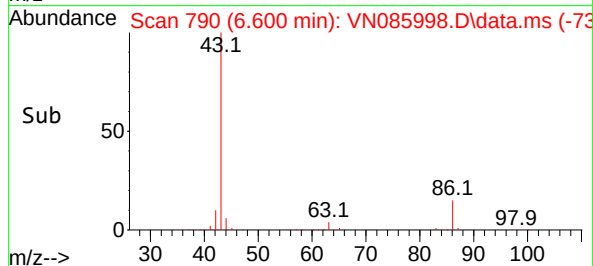
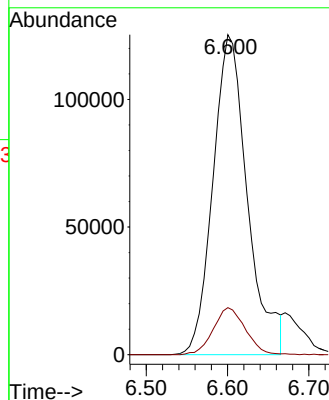
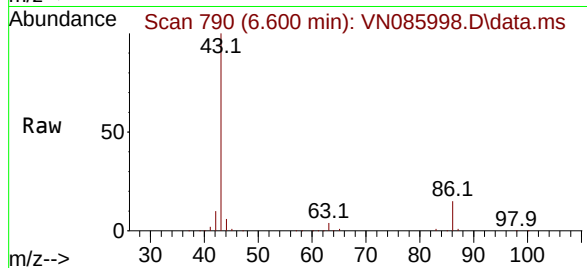
86 14.7 11.2 16.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#24

1,1-Dichloroethane

Concen: 18.131 ug/l

RT: 6.565 min Scan# 784

Delta R.T. -0.000 min

Lab File: VN085998.D

Acq: 18 Mar 2025 12:32

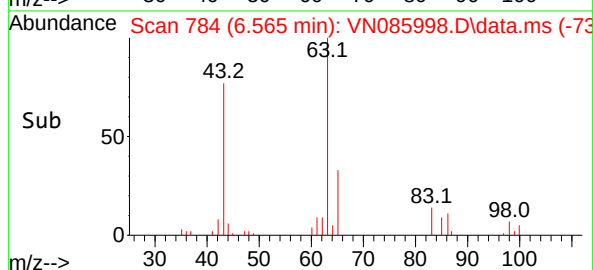
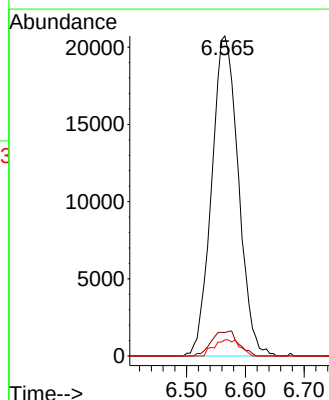
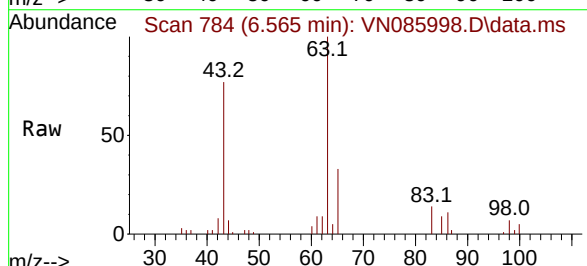
Tgt Ion: 63 Resp: 65460

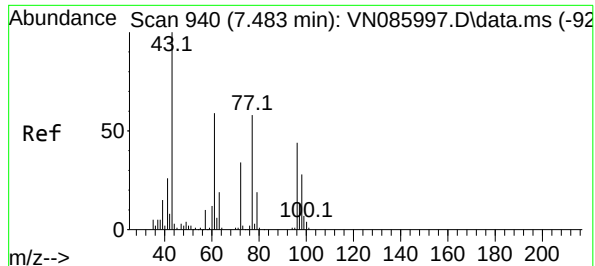
Ion Ratio Lower Upper

63 100

98 7.3 3.6 10.9

100 5.1 2.5 7.5





#25

2-Butanone

Concen: 91.662 ug/l

RT: 7.483 min Scan# 940

Delta R.T. -0.000 min

Lab File: VN085998.D

Acq: 18 Mar 2025 12:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 43 Resp: 9974

Ion Ratio Lower Upper

43 100

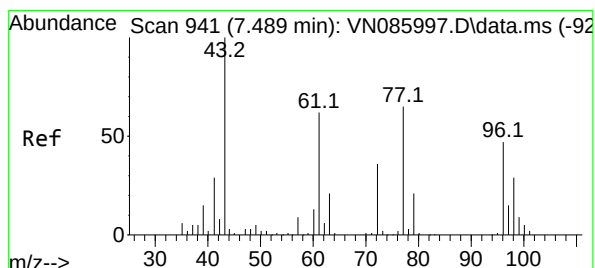
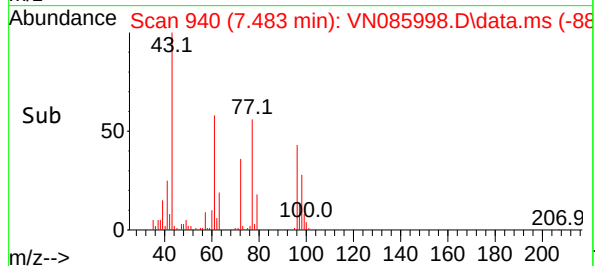
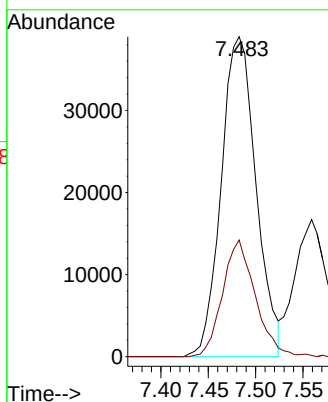
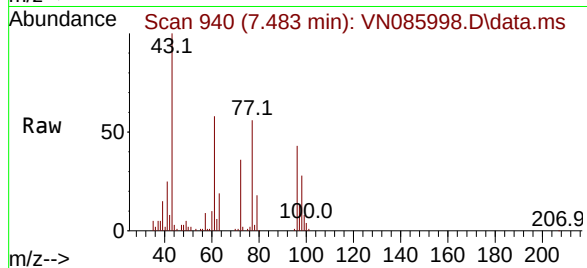
72 36.5 27.4 41.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#26

2,2-Dichloropropane

Concen: 18.249 ug/l

RT: 7.488 min Scan# 941

Delta R.T. -0.000 min

Lab File: VN085998.D

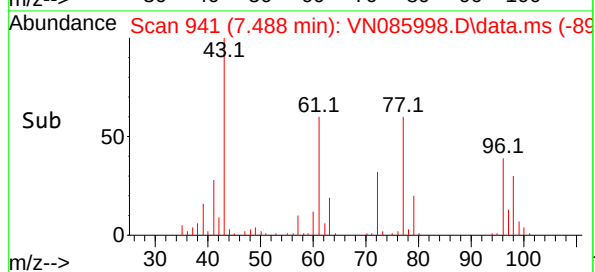
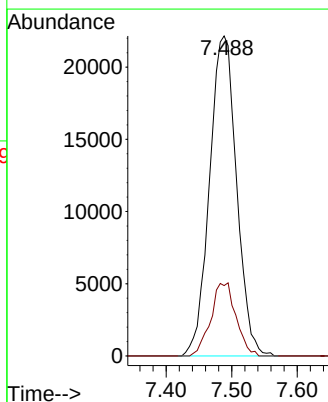
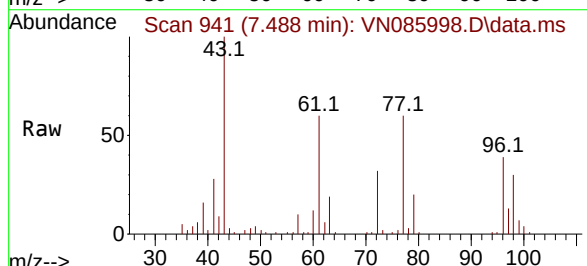
Acq: 18 Mar 2025 12:32

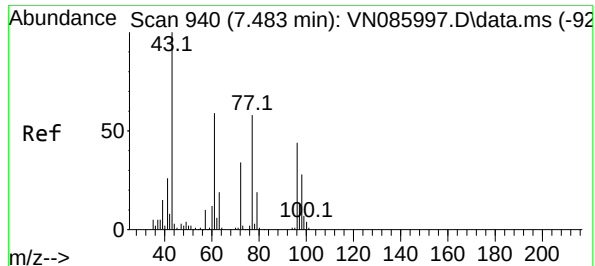
Tgt Ion: 77 Resp: 63430

Ion Ratio Lower Upper

77 100

97 21.2 11.2 33.5





#27

cis-1,2-Dichloroethene

Concen: 18.573 ug/l

RT: 7.483 min Scan# 940

Delta R.T. -0.000 min

Lab File: VN085998.D

Acq: 18 Mar 2025 12:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 96 Resp: 42598

Ion Ratio Lower Upper

96 100

61 138.5 0.0 272.8

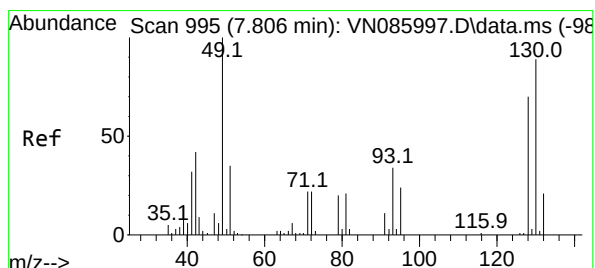
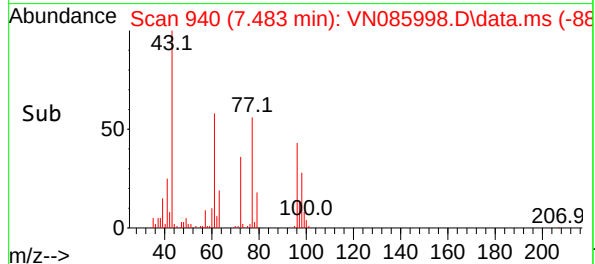
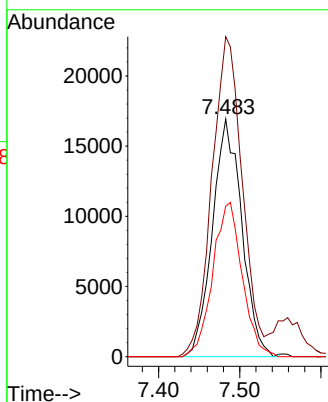
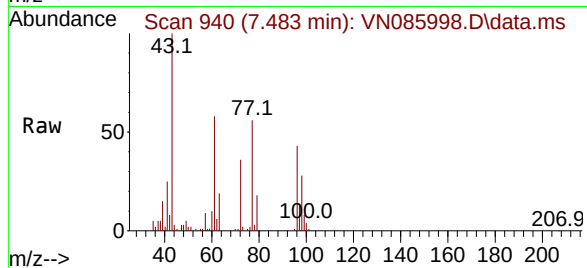
98 65.0 0.0 124.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#28

Bromochloromethane

Concen: 18.755 ug/l

RT: 7.812 min Scan# 996

Delta R.T. 0.006 min

Lab File: VN085998.D

Acq: 18 Mar 2025 12:32

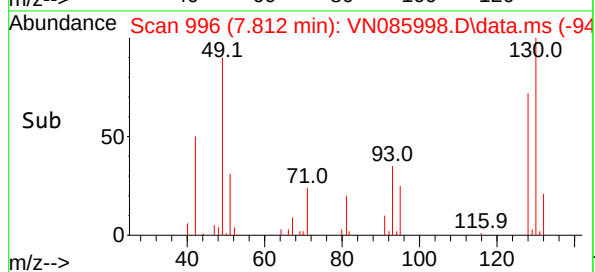
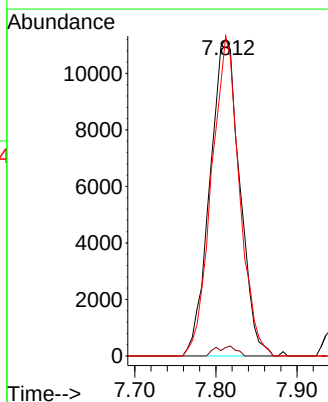
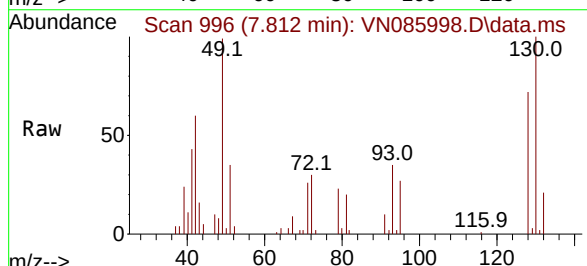
Tgt Ion: 49 Resp: 28688

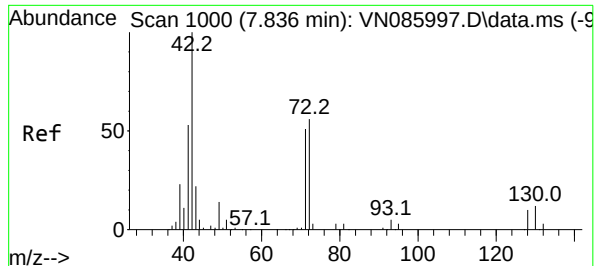
Ion Ratio Lower Upper

49 100

129 2.1 0.0 4.2

130 94.1 74.2 111.4





#29

Tetrahydrofuran

Concen: 98.119 ug/l

RT: 7.841 min Scan# 1001

Delta R.T. 0.006 min

Lab File: VN085998.D

Acq: 18 Mar 2025 12:32

Instrument :

MSVOA_N

ClientSampleId :

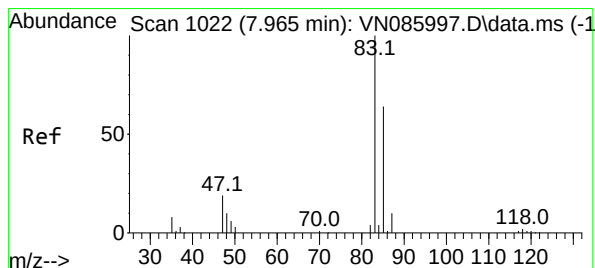
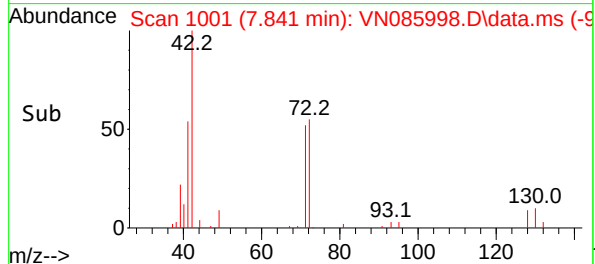
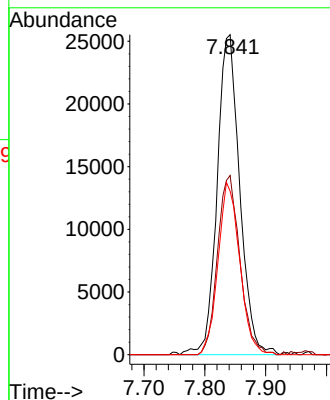
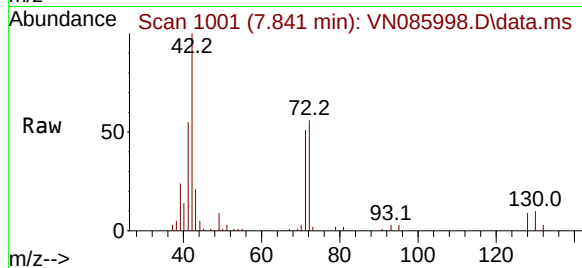
VSTDICC020

Tgt Ion:	42	Resp:	6591
Ion	Ratio	Lower	Upper
42	100		
72	55.4	45.0	67.4
71	51.6	41.9	62.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#30

Chloroform

Concen: 18.259 ug/l

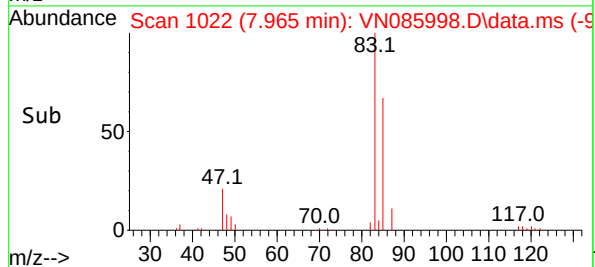
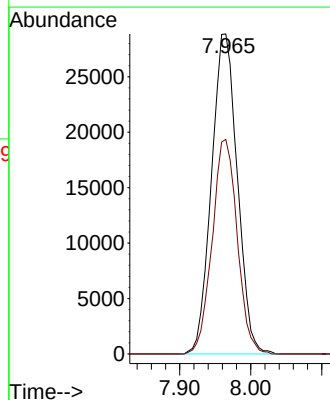
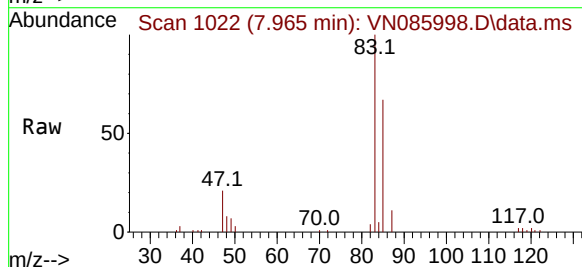
RT: 7.965 min Scan# 1022

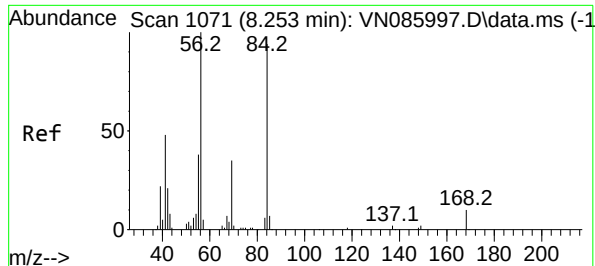
Delta R.T. -0.000 min

Lab File: VN085998.D

Acq: 18 Mar 2025 12:32

Tgt Ion:	83	Resp:	72867
Ion	Ratio	Lower	Upper
83	100		
85	67.1	51.5	77.3





#31

Cyclohexane

Concen: 17.940 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. -0.000 min

Lab File: VN085998.D

Acq: 18 Mar 2025 12:32

Instrument :

MSVOA_N

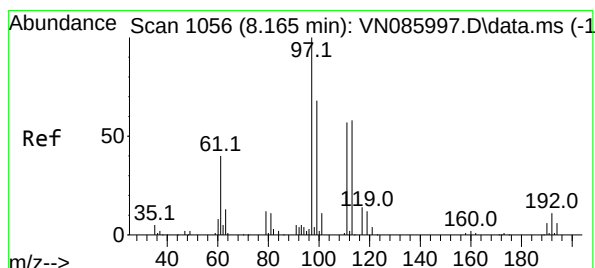
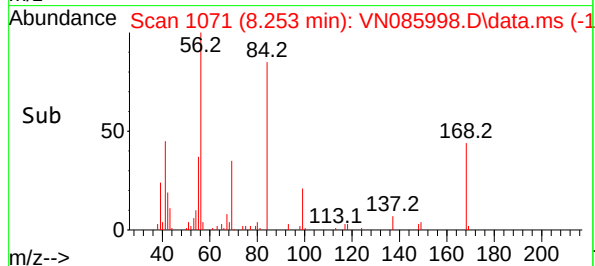
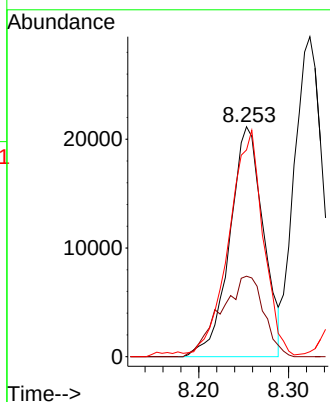
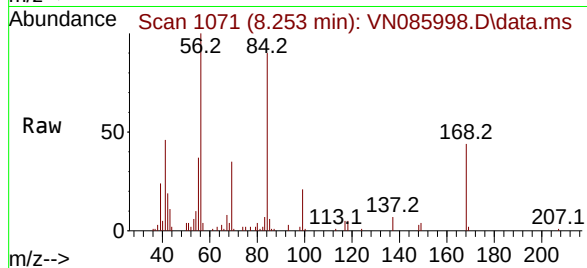
ClientSampleId :

VSTDIC020

Tgt Ion:	56	Resp:	55179
Ion Ratio	Lower	Upper	
56	100		
69	35.0	28.0	42.0
84	87.8	75.0	112.6

Manual Integrations
APPROVED

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



#32

1,1,1-Trichloroethane

Concen: 18.369 ug/l

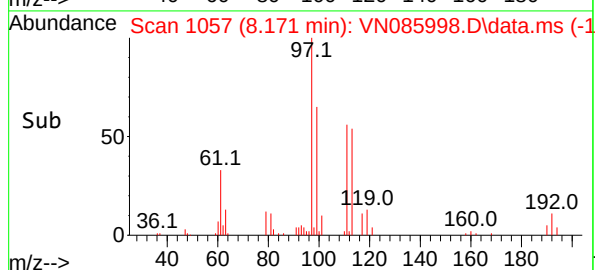
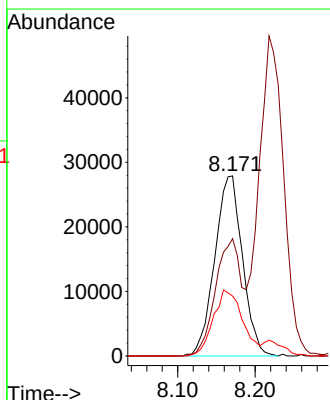
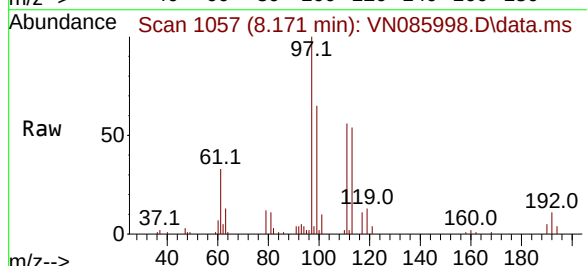
RT: 8.171 min Scan# 1057

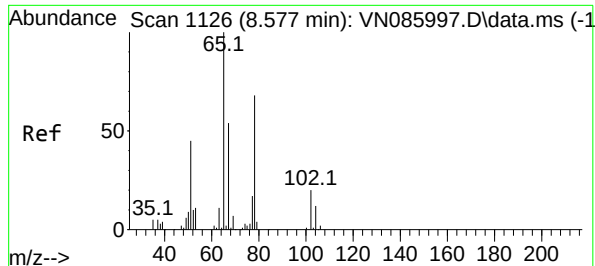
Delta R.T. 0.006 min

Lab File: VN085998.D

Acq: 18 Mar 2025 12:32

Tgt Ion:	97	Resp:	69390
Ion Ratio	Lower	Upper	
97	100		
99	62.3	52.8	79.2
61	38.9	33.6	50.4





#33

1,2-Dichloroethane-d4

Concen: 19.534 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN085998.D

Acq: 18 Mar 2025 12:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 65 Resp: 48218

Ion Ratio Lower Upper

65 100

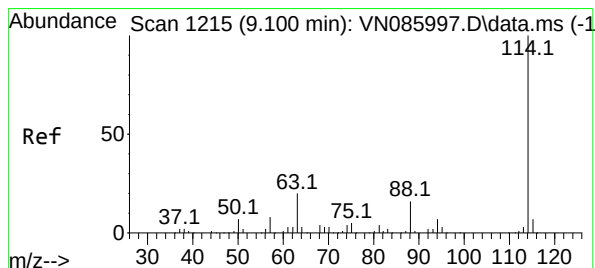
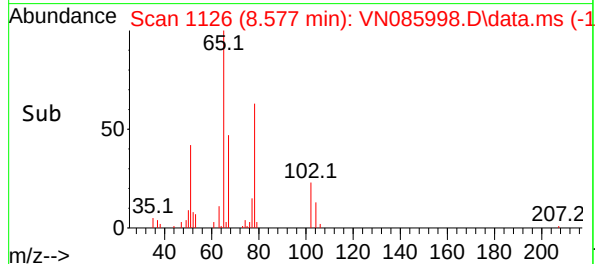
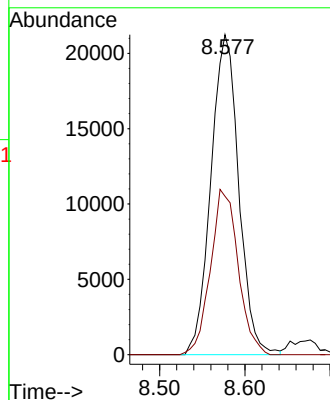
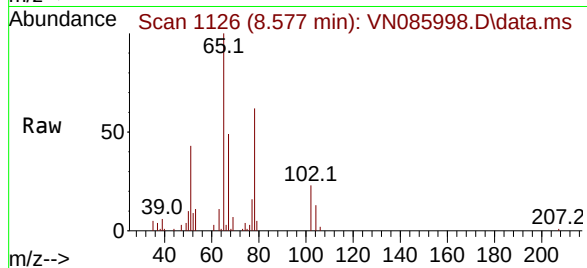
67 51.3 0.0 102.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN085998.D

Acq: 18 Mar 2025 12:32

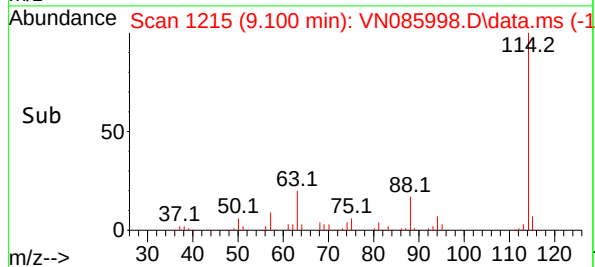
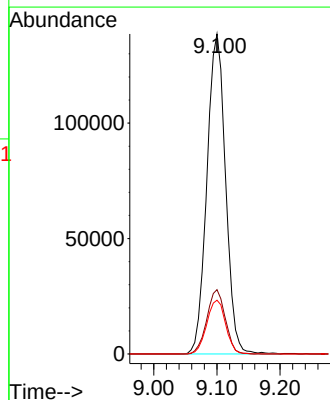
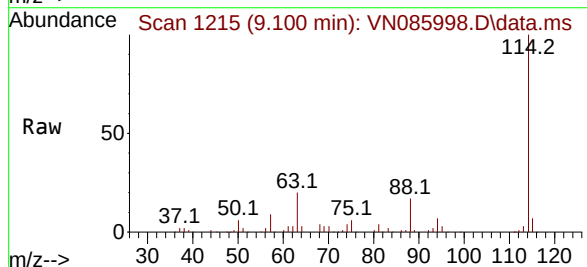
Tgt Ion:114 Resp: 284537

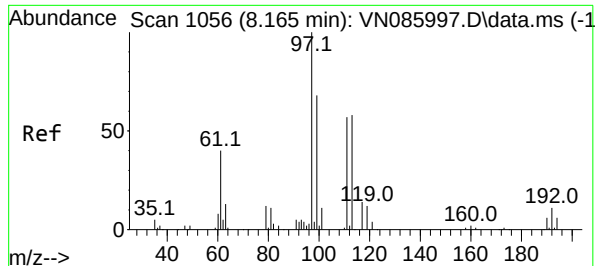
Ion Ratio Lower Upper

114 100

63 20.1 0.0 39.6

88 16.8 0.0 32.6





#35

Dibromofluoromethane

Concen: 19.905 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN085998.D

Acq: 18 Mar 2025 12:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

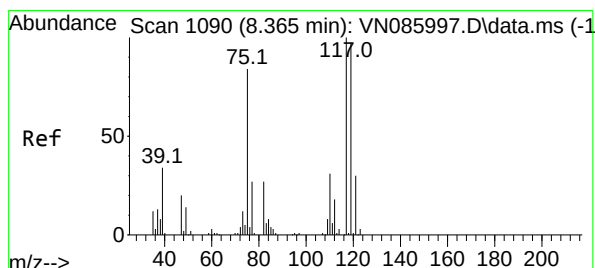
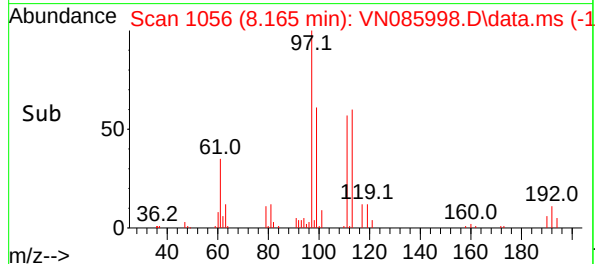
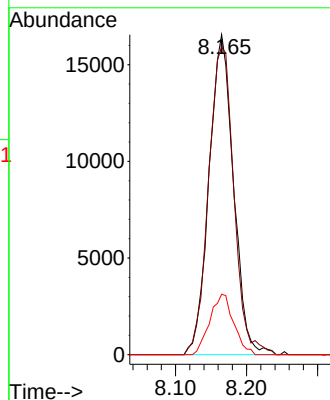
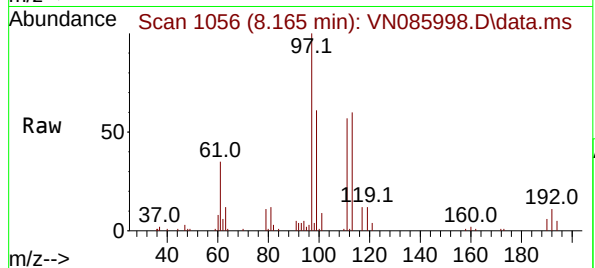
Tgt Ion:	113	Resp:	3953
Ion Ratio	Lower	Upper	
113	100		
111	99.6	81.8	122.8
192	18.4	15.9	23.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#36

1,1-Dichloropropene

Concen: 18.317 ug/l

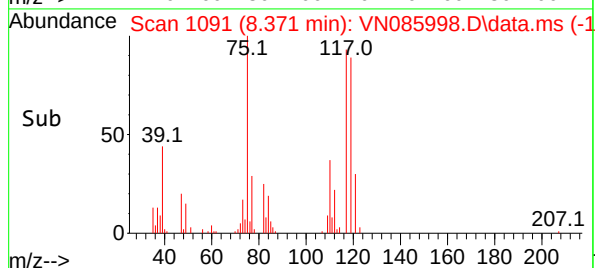
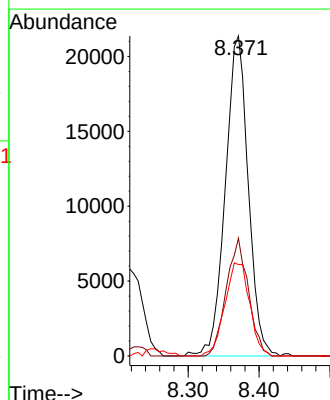
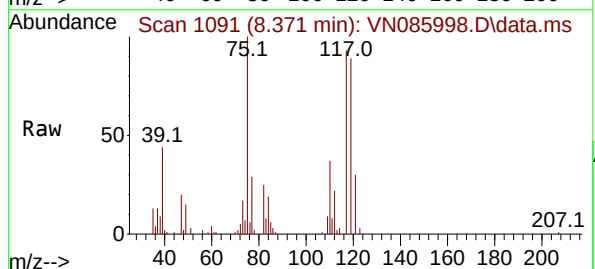
RT: 8.371 min Scan# 1091

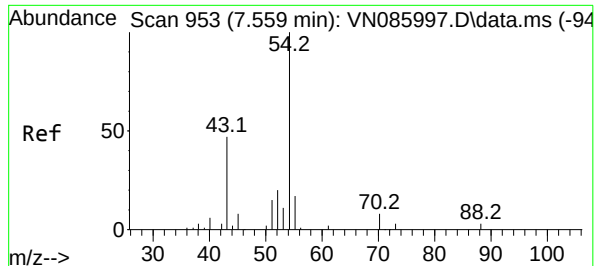
Delta R.T. 0.006 min

Lab File: VN085998.D

Acq: 18 Mar 2025 12:32

Tgt Ion:	75	Resp:	47900
Ion Ratio	Lower	Upper	
75	100		
110	35.5	17.8	53.3
77	31.5	25.0	37.4





#37

Ethyl Acetate

Concen: 18.899 ug/l

RT: 7.559 min Scan# 91

Delta R.T. -0.000 min

Lab File: VN085998.D

Acq: 18 Mar 2025 12:32

Instrument :

MSVOA_N

ClientSampleId :

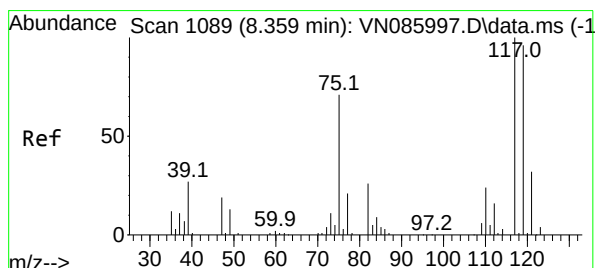
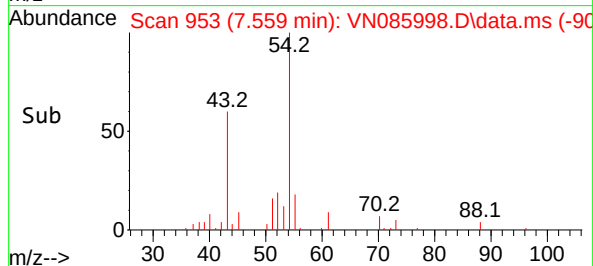
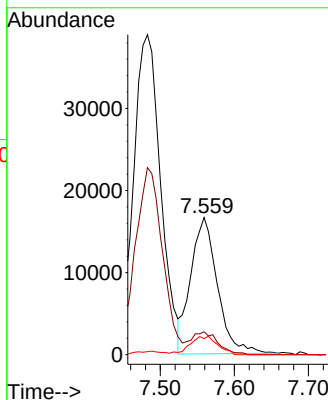
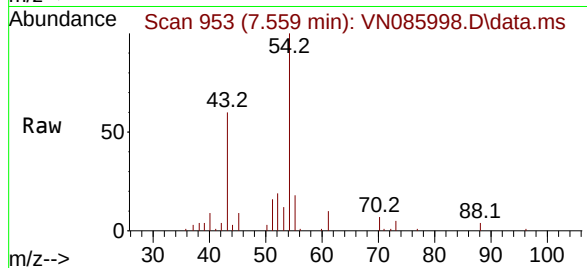
VSTDIC020

Tgt Ion:	43	Resp:	41690
Ion	Ratio	Lower	Upper
43	100		
61	15.9	13.0	19.4
70	13.9	11.0	16.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#38

Carbon Tetrachloride

Concen: 18.440 ug/l

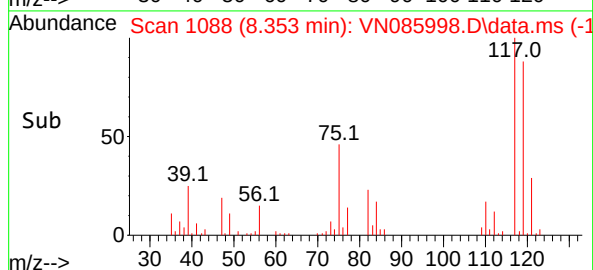
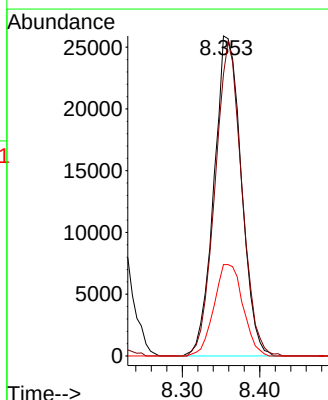
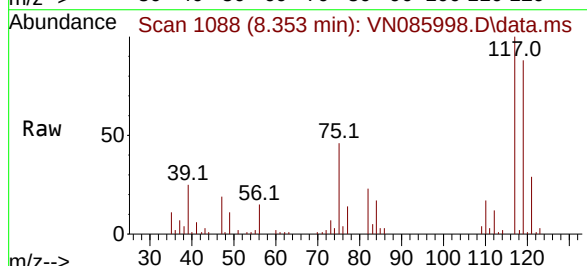
RT: 8.353 min Scan# 1088

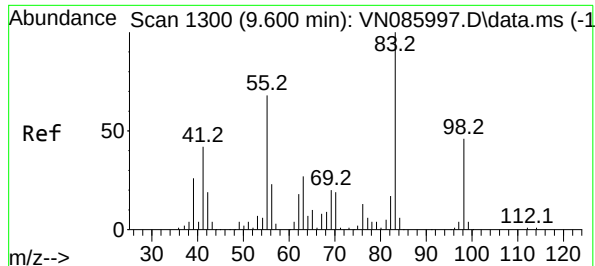
Delta R.T. -0.006 min

Lab File: VN085998.D

Acq: 18 Mar 2025 12:32

Tgt Ion:	117	Resp:	63404
Ion	Ratio	Lower	Upper
117	100		
119	88.1	77.0	115.4
121	28.6	25.6	38.4





#39

Methylcyclohexane

Concen: 18.359 ug/l

RT: 9.600 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN085998.D

Acq: 18 Mar 2025 12:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 83 Resp: 4763

Ion Ratio Lower Upper

83 100

55 74.2 54.2 81.2

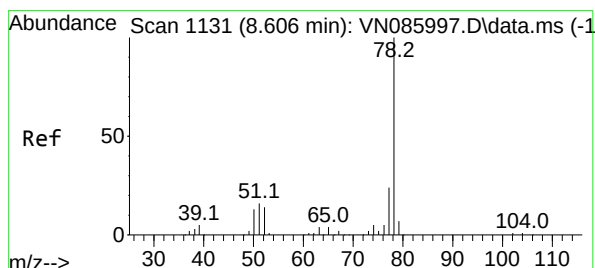
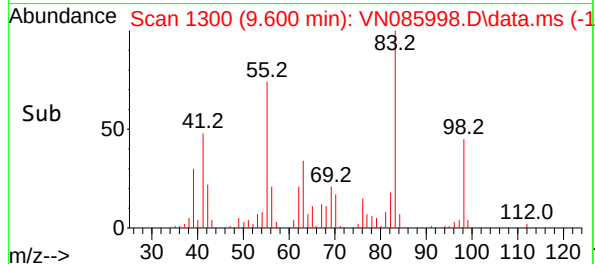
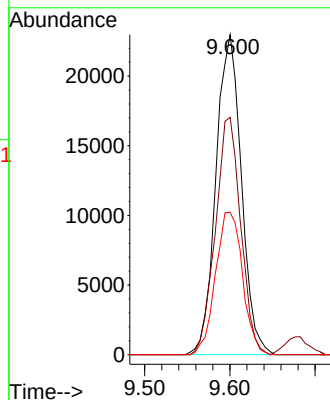
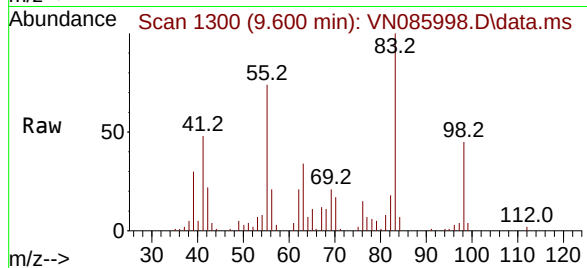
98 44.5 37.1 55.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#40

Benzene

Concen: 18.690 ug/l

RT: 8.606 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VN085998.D

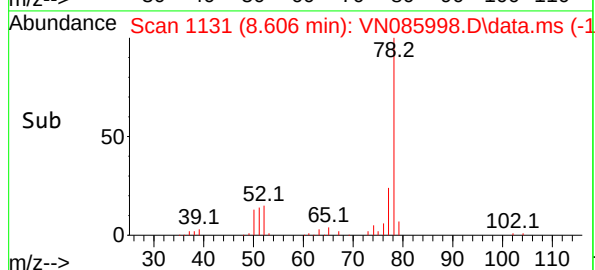
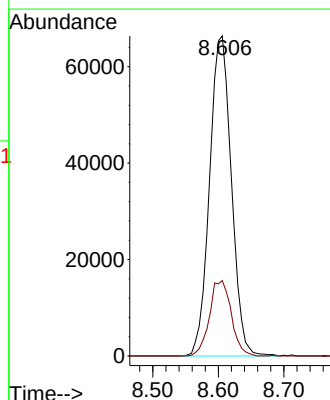
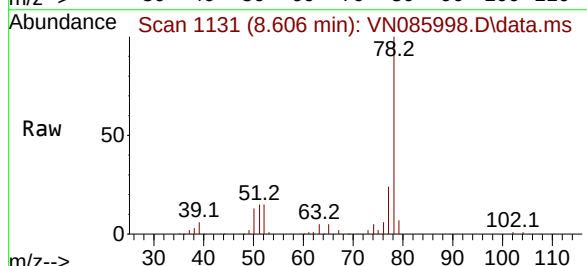
Acq: 18 Mar 2025 12:32

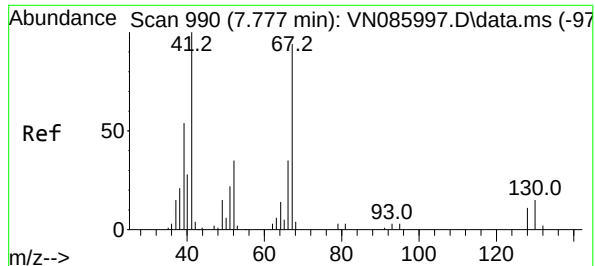
Tgt Ion: 78 Resp: 153432

Ion Ratio Lower Upper

78 100

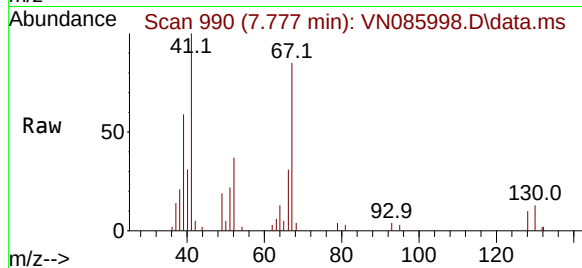
77 23.5 18.9 28.3





#41
Methacrylonitrile
Concen: 20.242 ug/l
RT: 7.777 min Scan# 990
Delta R.T. -0.000 min
Lab File: VN085998.D
Acq: 18 Mar 2025 12:32

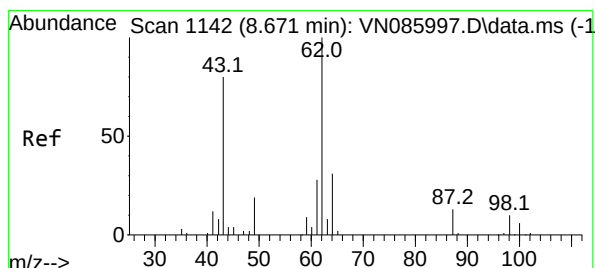
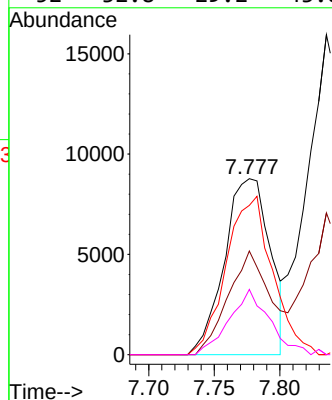
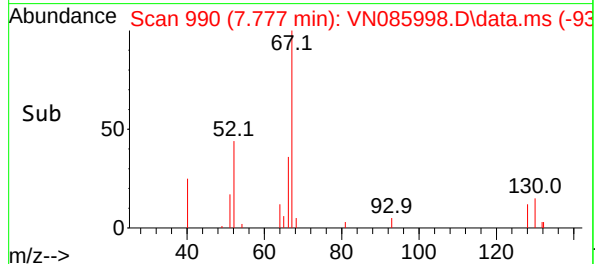
Instrument :
MSVOA_N
Client Sample Id :
VSTDICC020



Tgt Ion: 41 Resp: 21324
Ion Ratio Lower Upper
41 100
39 55.7 46.2 69.2
67 91.0 75.9 113.9
52 32.8 29.2 43.8

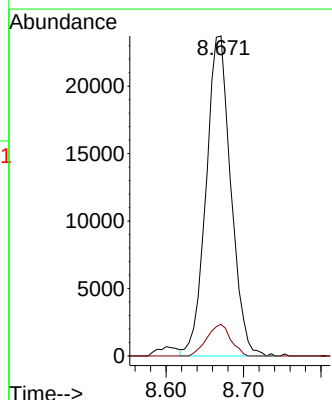
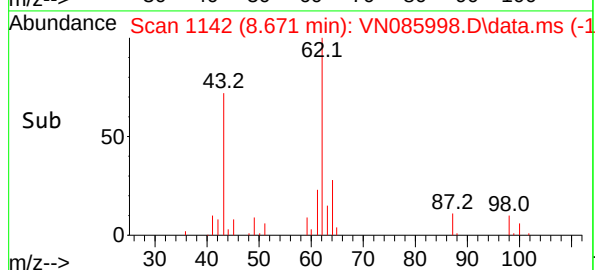
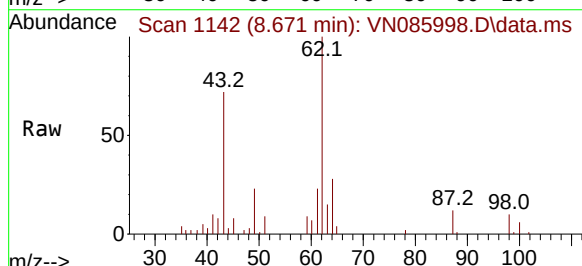
Manual Integrations
APPROVED

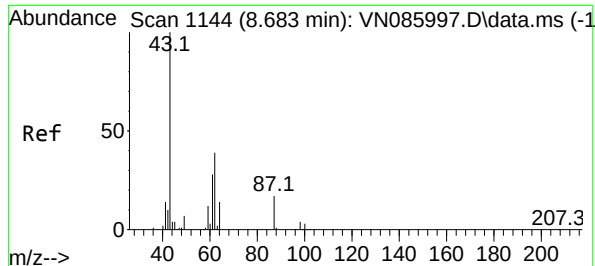
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#42
1,2-Dichloroethane
Concen: 18.401 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VN085998.D
Acq: 18 Mar 2025 12:32

Tgt Ion: 62 Resp: 52637
Ion Ratio Lower Upper
62 100
98 9.5 0.0 18.6





#43

Isopropyl Acetate

Concen: 18.838 ug/l m

RT: 8.688 min Scan# 1145

Delta R.T. 0.006 min

Lab File: VN085998.D

Acq: 18 Mar 2025 12:32

Instrument :

MSVOA_N

ClientSampleId :

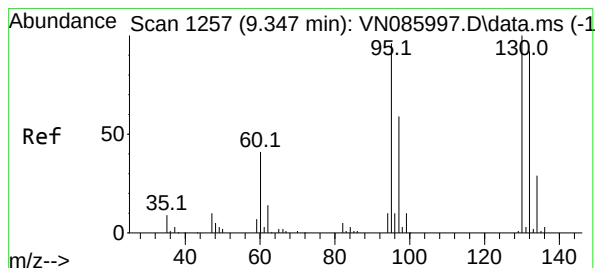
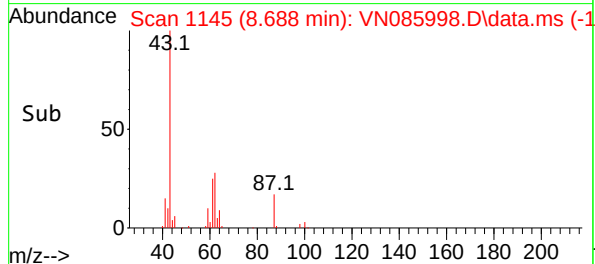
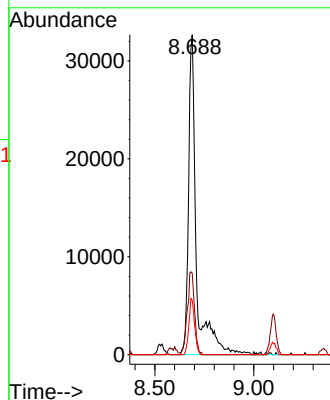
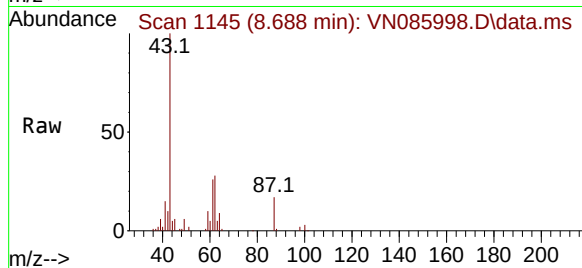
VSTDIC020

Tgt Ion:	43	Resp:	9025
Ion	Ratio	Lower	Upper
43	100		
61	23.9	25.0	37.6
87	12.7	13.0	19.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#44

Trichloroethene

Concen: 17.906 ug/l

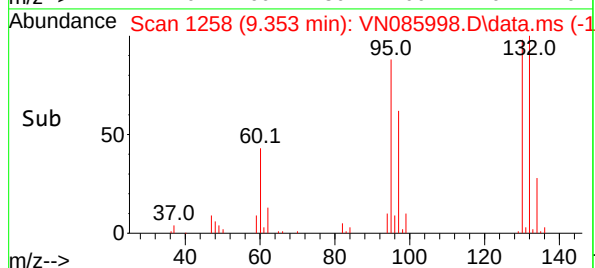
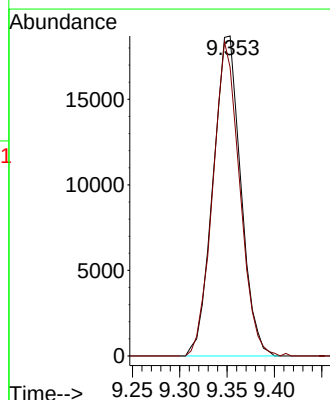
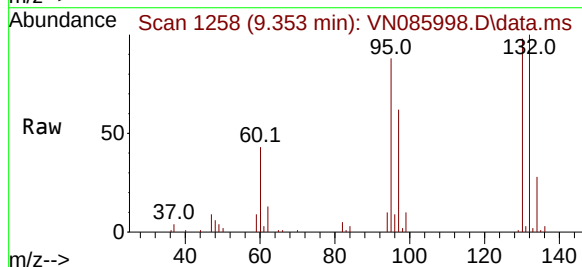
RT: 9.353 min Scan# 1258

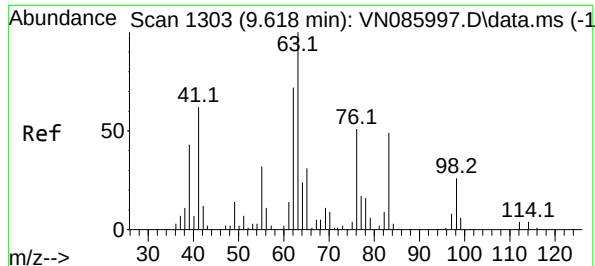
Delta R.T. 0.006 min

Lab File: VN085998.D

Acq: 18 Mar 2025 12:32

Tgt Ion:	130	Resp:	38098
Ion	Ratio	Lower	Upper
130	100		
95	90.2	0.0	191.6





#45

1,2-Dichloropropane

Concen: 19.446 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. -0.000 min

Lab File: VN085998.D

Acq: 18 Mar 2025 12:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 63 Resp: 36309

Ion Ratio Lower Upper

63 100

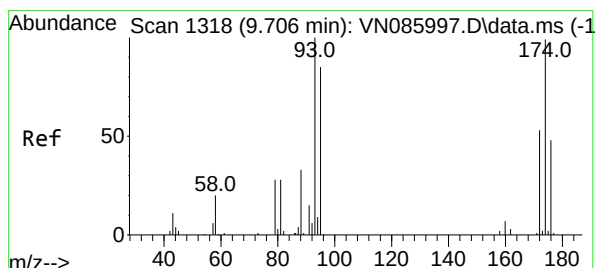
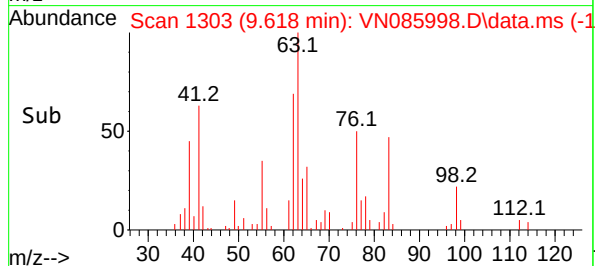
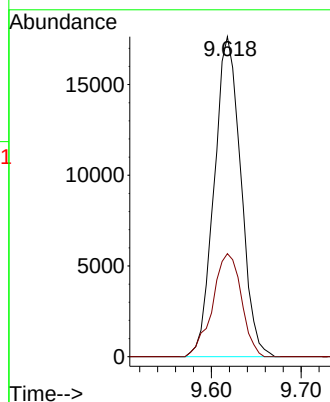
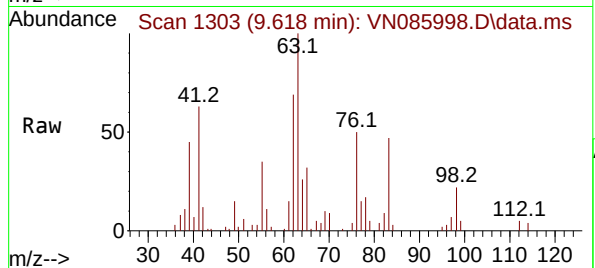
65 32.2 24.7 37.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#46

Dibromomethane

Concen: 18.123 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. -0.000 min

Lab File: VN085998.D

Acq: 18 Mar 2025 12:32

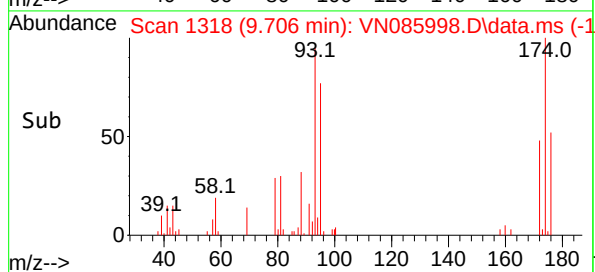
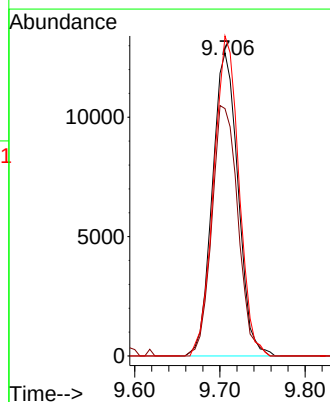
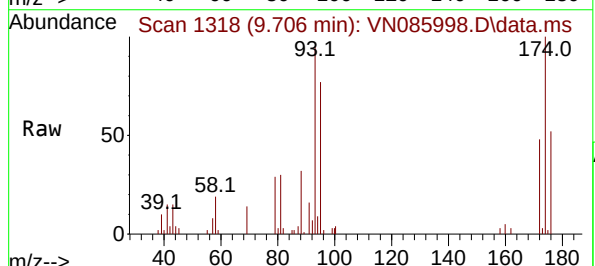
Tgt Ion: 93 Resp: 26612

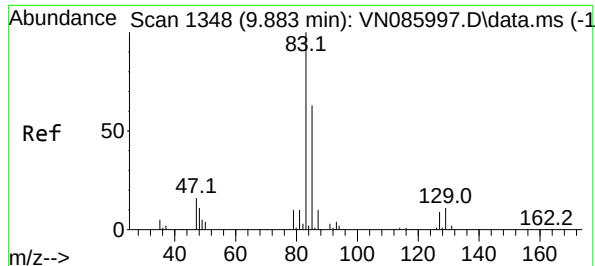
Ion Ratio Lower Upper

93 100

95 83.7 66.2 99.2

174 103.2 80.1 120.1





#47

Bromodichloromethane

Concen: 18.784 ug/l

RT: 9.888 min Scan# 1349

Delta R.T. 0.006 min

Lab File: VN085998.D

Acq: 18 Mar 2025 12:32

Instrument :

MSVOA_N

ClientSampleId :

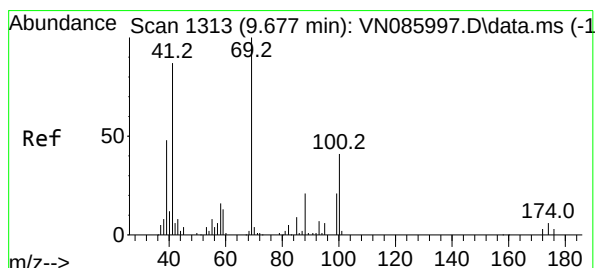
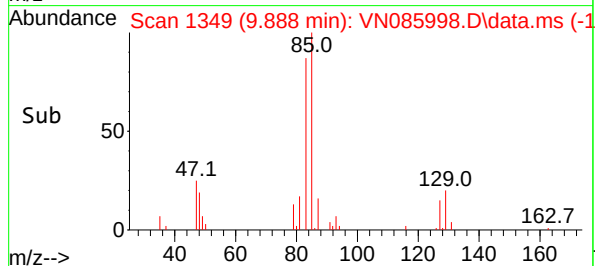
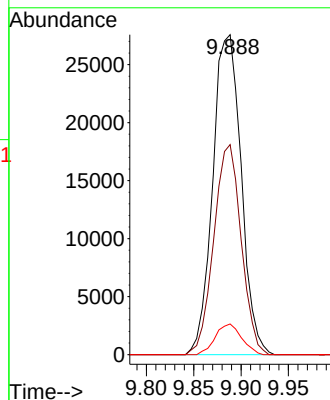
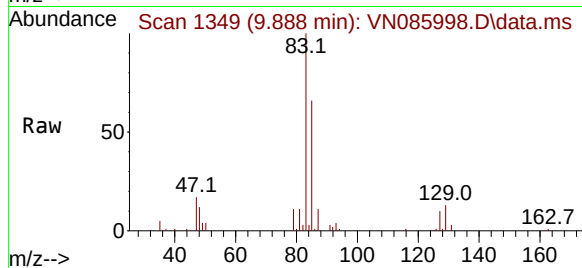
VSTDIC020

Tgt Ion:	83	Resp:	5764
Ion	Ratio	Lower	Upper
83	100		
85	65.7	50.2	75.2
127	9.6	7.1	10.7

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#48

Methyl methacrylate

Concen: 19.354 ug/l

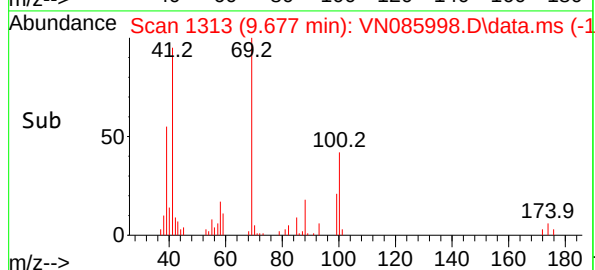
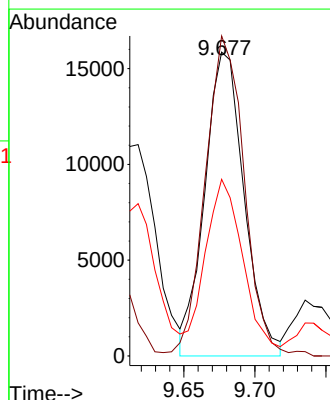
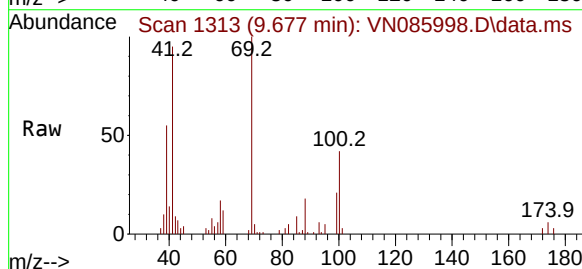
RT: 9.677 min Scan# 1313

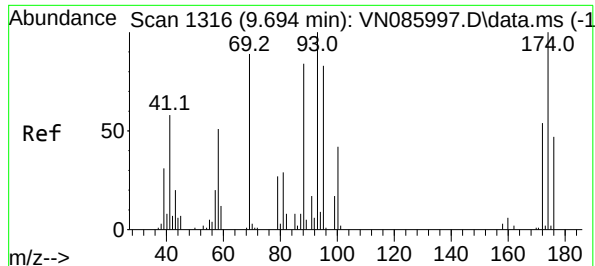
Delta R.T. -0.000 min

Lab File: VN085998.D

Acq: 18 Mar 2025 12:32

Tgt Ion:	41	Resp:	30533
Ion	Ratio	Lower	Upper
41	100		
69	104.7	83.1	124.7
39	56.9	45.6	68.4





#49

1,4-Dioxane

Concen: 377.006 ug/l

RT: 9.694 min Scan# 1316

Delta R.T. -0.000 min

Lab File: VN085998.D

Acq: 18 Mar 2025 12:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 88 Resp: 14060

Ion Ratio Lower Upper

88 100

43 22.6 21.7 32.5

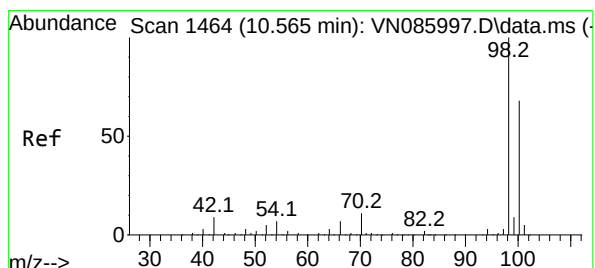
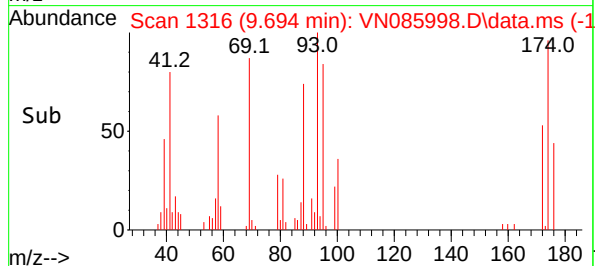
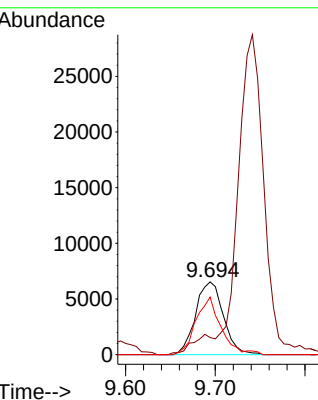
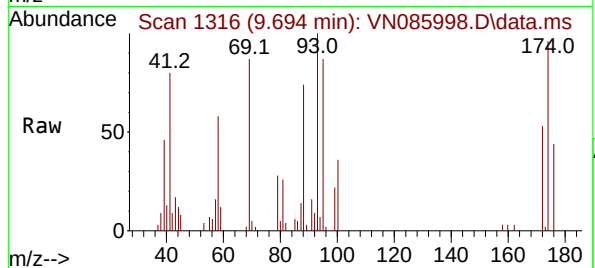
58 71.7 50.4 75.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#50

Toluene-d8

Concen: 19.783 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN085998.D

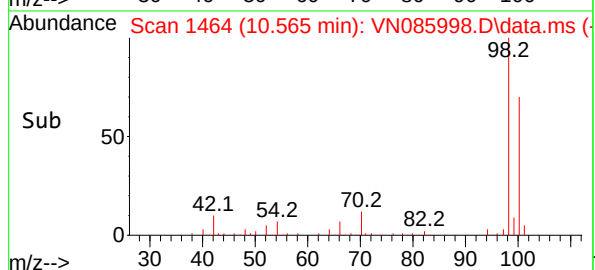
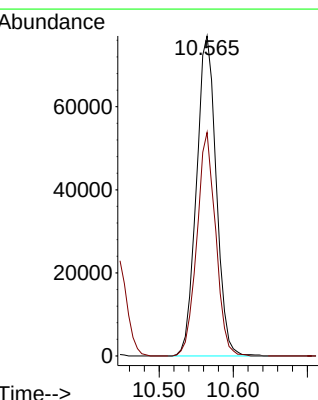
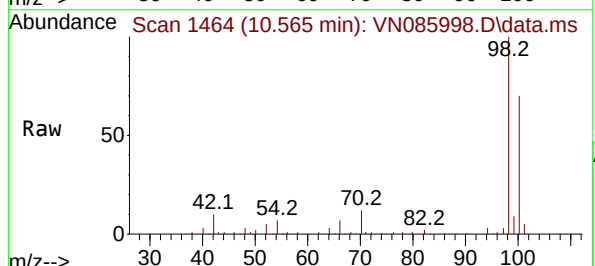
Acq: 18 Mar 2025 12:32

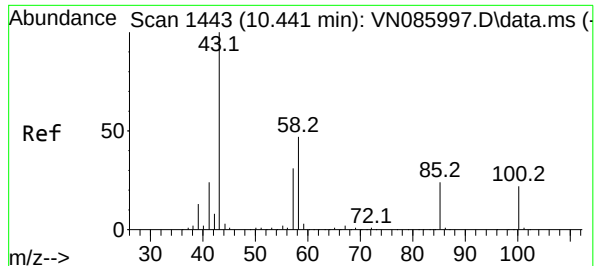
Tgt Ion: 98 Resp: 142597

Ion Ratio Lower Upper

98 100

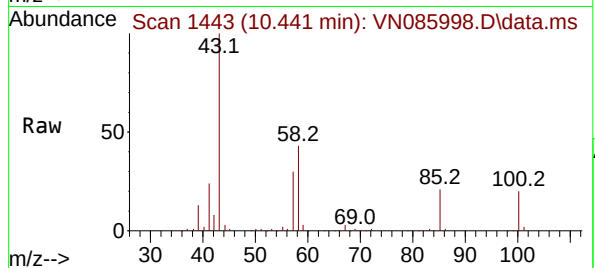
100 66.3 53.1 79.7





#51
4-Methyl-2-Pentanone
Concen: 99.344 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN085998.D
Acq: 18 Mar 2025 12:32

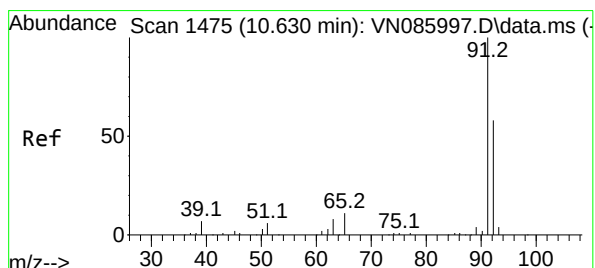
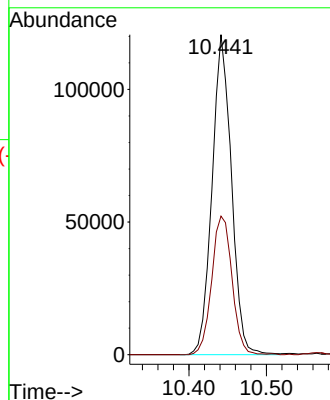
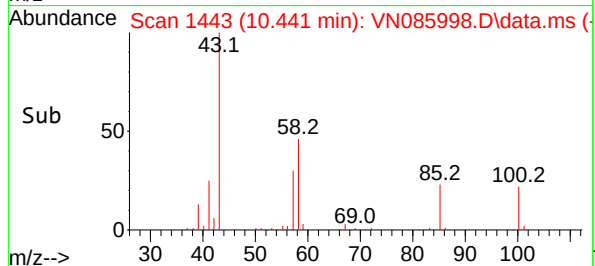
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020



Tgt Ion: 43 Resp: 209460
Ion Ratio Lower Upper
43 100
58 45.4 37.4 56.0

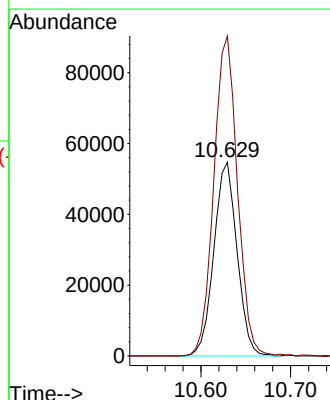
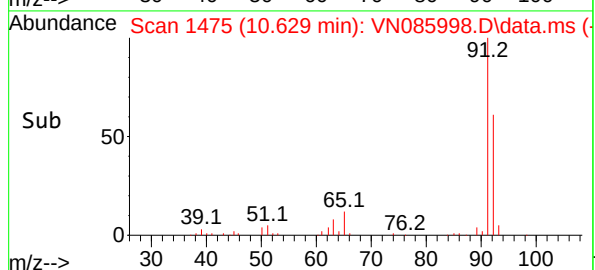
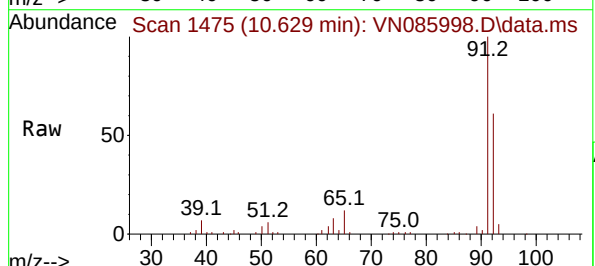
Manual Integrations
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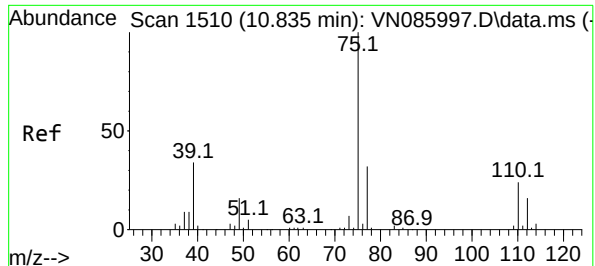
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#52
Toluene
Concen: 19.476 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN085998.D
Acq: 18 Mar 2025 12:32

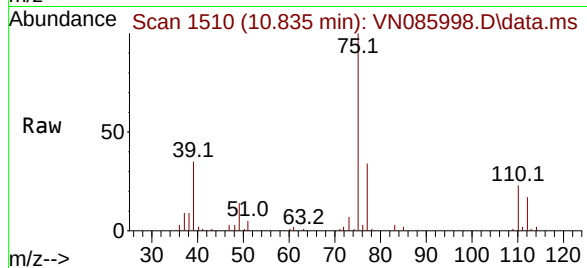
Tgt Ion: 92 Resp: 98133
Ion Ratio Lower Upper
92 100
91 168.7 136.2 204.4





#53
t-1,3-Dichloropropene
Concen: 19.253 ug/l
RT: 10.835 min Scan# 1510
Delta R.T. -0.000 min
Lab File: VN085998.D
Acq: 18 Mar 2025 12:32

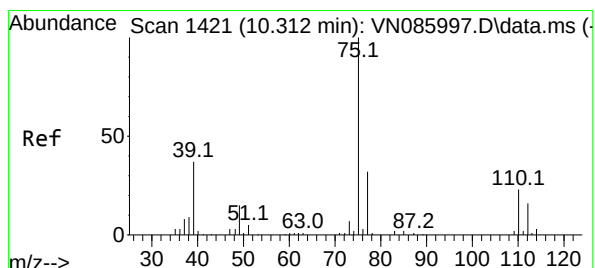
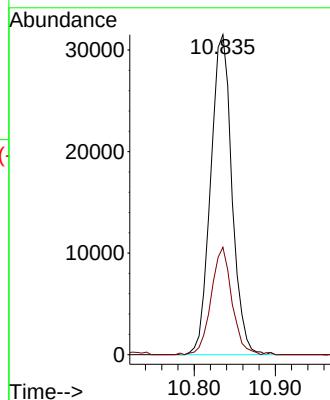
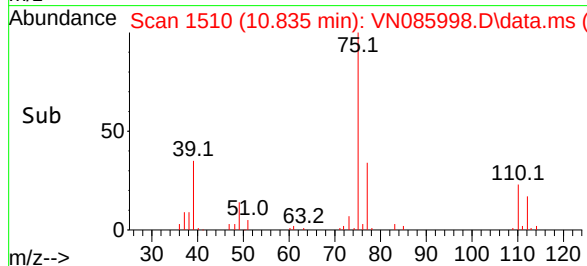
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020



Tgt Ion: 75 Resp: 57384
Ion Ratio Lower Upper
75 100
77 33.6 25.3 37.9

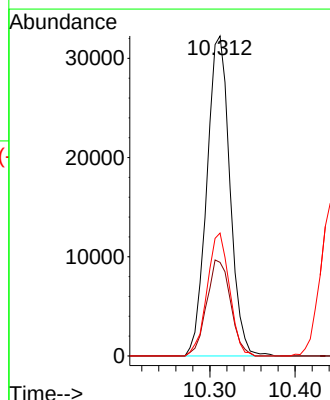
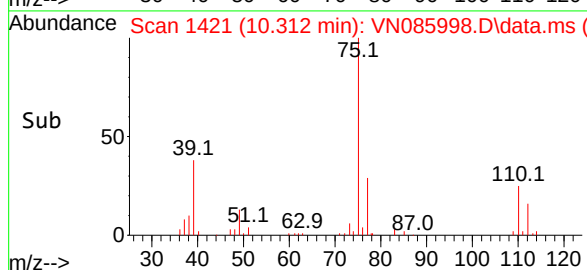
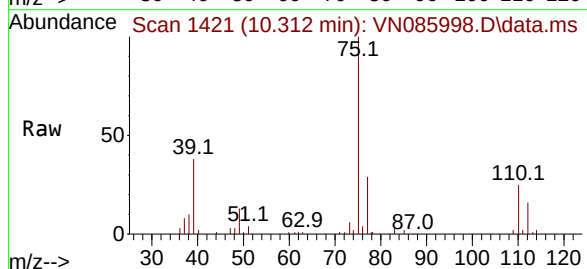
Manual Integrations
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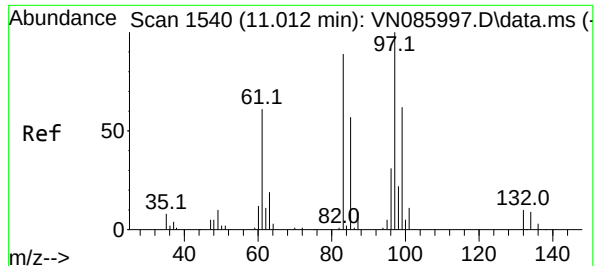
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#54
cis-1,3-Dichloropropene
Concen: 19.278 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. -0.000 min
Lab File: VN085998.D
Acq: 18 Mar 2025 12:32

Tgt Ion: 75 Resp: 60620
Ion Ratio Lower Upper
75 100
77 29.3 25.3 37.9
39 38.4 29.6 44.4





#55

1,1,2-Trichloroethane

Concen: 18.716 ug/l

RT: 11.012 min Scan# 1540

Delta R.T. -0.000 min

Lab File: VN085998.D

Acq: 18 Mar 2025 12:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

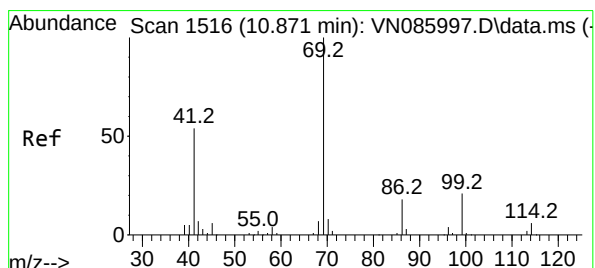
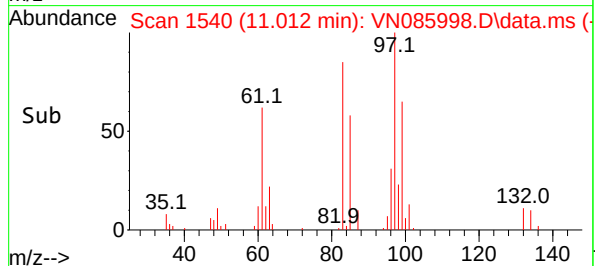
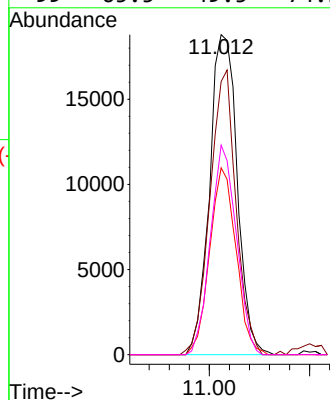
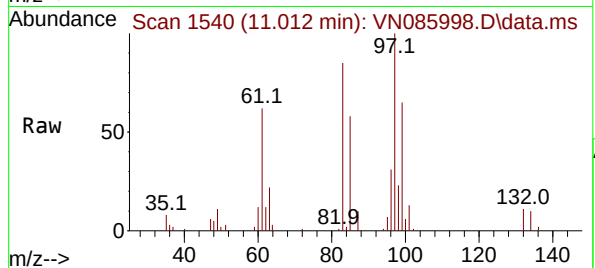
Tgt Ion: 97	Resp: 35992
Ion Ratio	Lower Upper
97 100	
83 85.4	71.2 106.8
85 58.4	45.4 68.0
99 65.5	49.5 74.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#56

Ethyl methacrylate

Concen: 20.039 ug/l

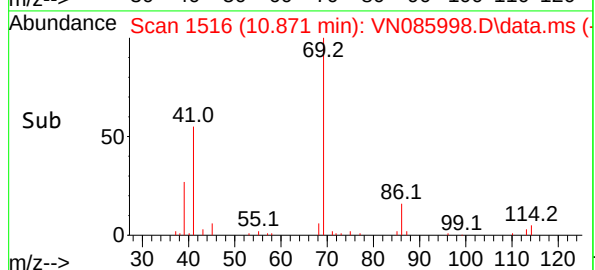
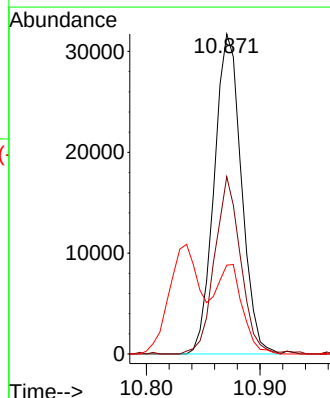
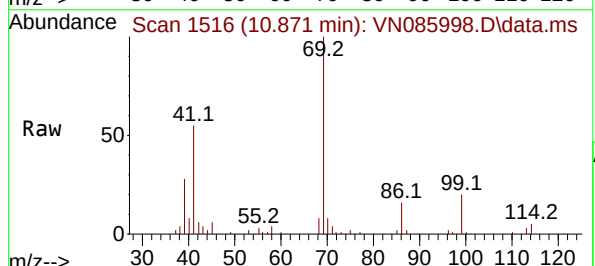
RT: 10.871 min Scan# 1516

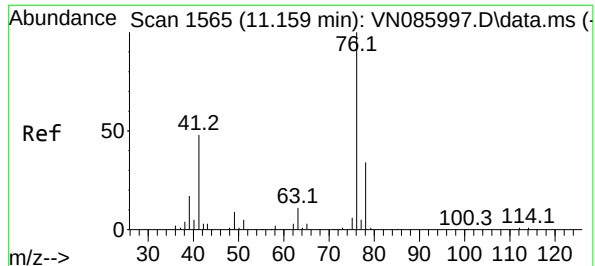
Delta R.T. -0.000 min

Lab File: VN085998.D

Acq: 18 Mar 2025 12:32

Tgt Ion: 69	Resp: 52684
Ion Ratio	Lower Upper
69 100	
41 53.0	41.6 62.4
39 27.8	21.8 32.8





#57

1,3-Dichloropropane

Concen: 18.788 ug/l

RT: 11.159 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN085998.D

Acq: 18 Mar 2025 12:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 76 Resp: 61369

Ion Ratio Lower Upper

76 100

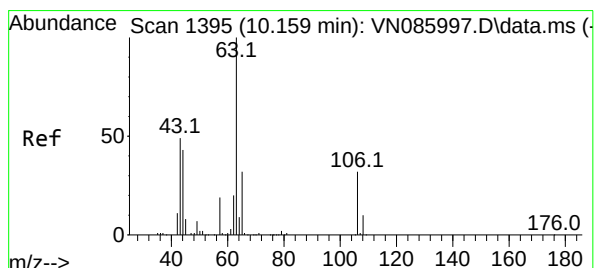
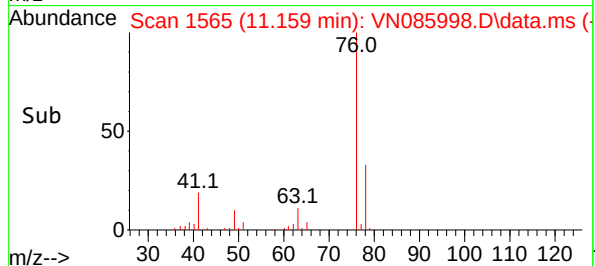
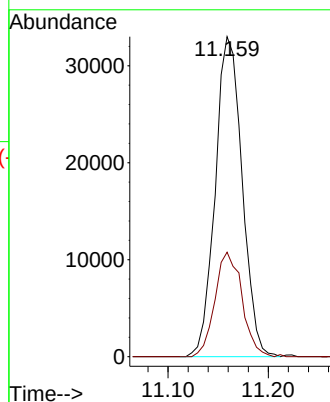
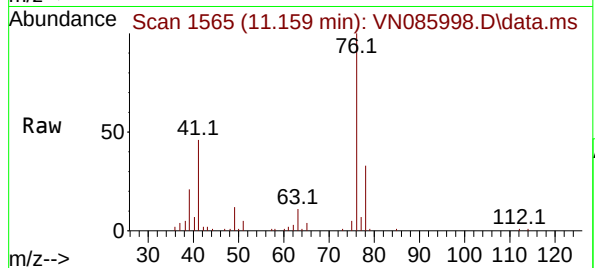
78 32.9 25.8 38.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#58

2-Chloroethyl Vinyl ether

Concen: 69.674 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. -0.000 min

Lab File: VN085998.D

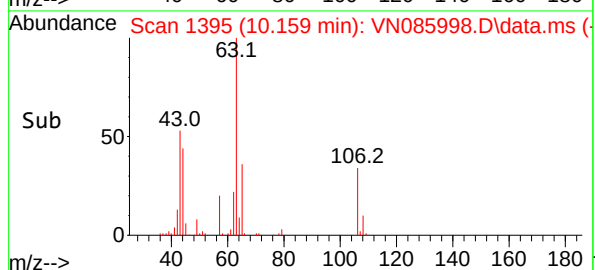
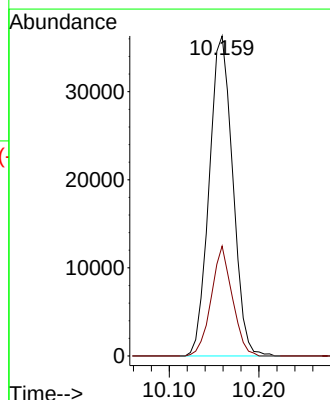
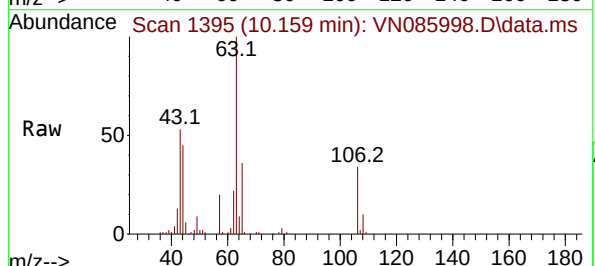
Acq: 18 Mar 2025 12:32

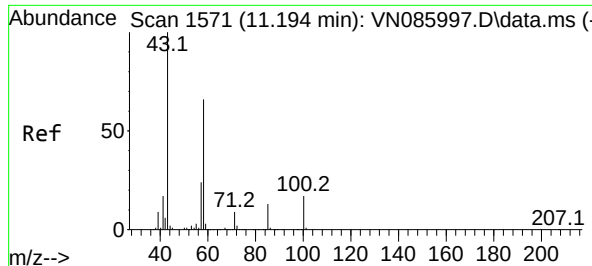
Tgt Ion: 63 Resp: 66141

Ion Ratio Lower Upper

63 100

106 30.8 25.0 37.6





#59

2-Hexanone

Concen: 99.554 ug/l

RT: 11.194 min Scan# 1571

Delta R.T. -0.000 min

Lab File: VN085998.D

Acq: 18 Mar 2025 12:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 43 Resp: 15291

Ion Ratio Lower Upper

43 100

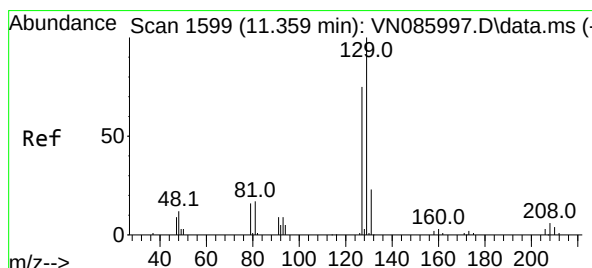
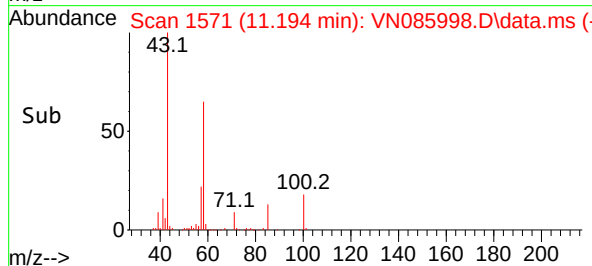
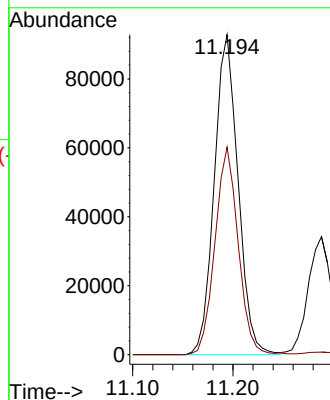
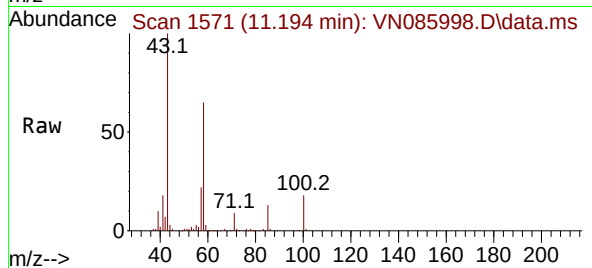
58 63.2 32.4 97.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#60

Dibromochloromethane

Concen: 18.701 ug/l

RT: 11.359 min Scan# 1599

Delta R.T. -0.000 min

Lab File: VN085998.D

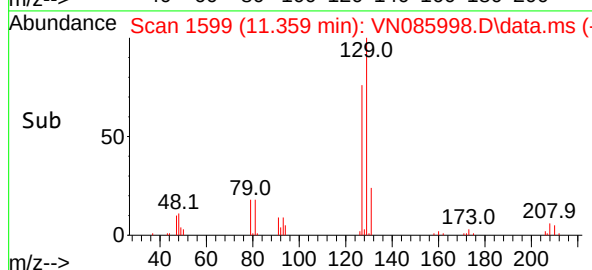
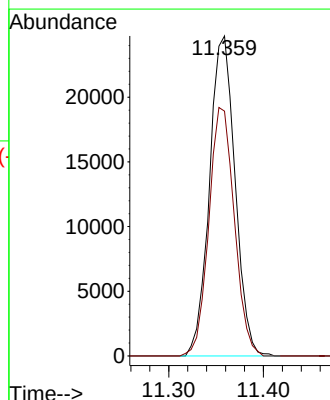
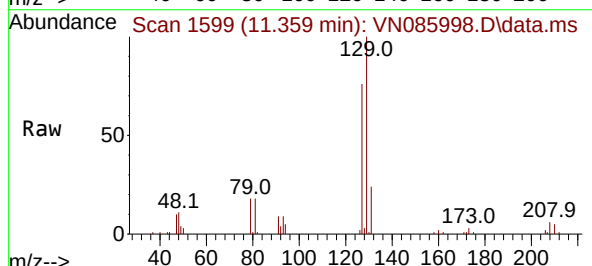
Acq: 18 Mar 2025 12:32

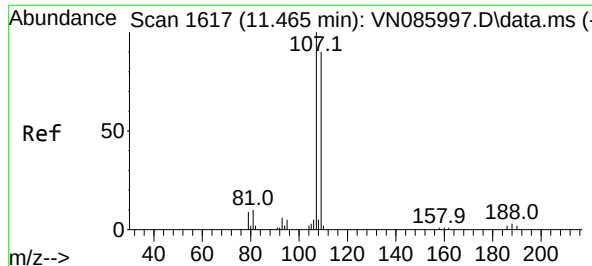
Tgt Ion:129 Resp: 46407

Ion Ratio Lower Upper

129 100

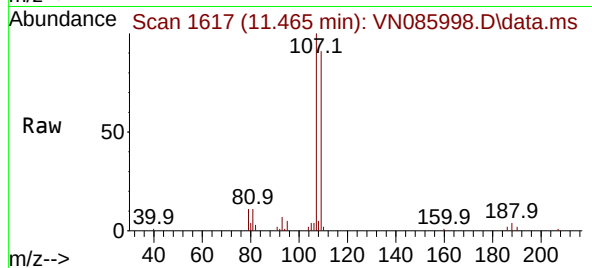
127 77.3 37.8 113.4





#61
1,2-Dibromoethane
Concen: 18.777 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VN085998.D
Acq: 18 Mar 2025 12:32

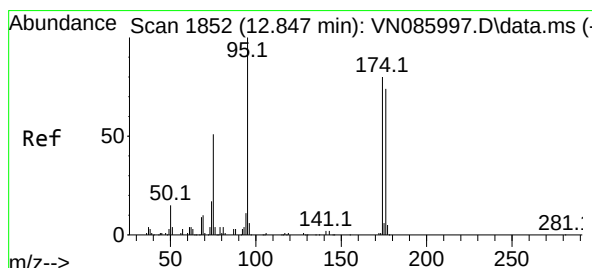
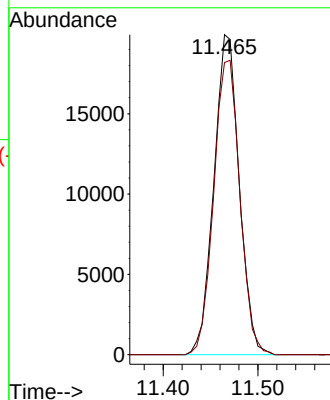
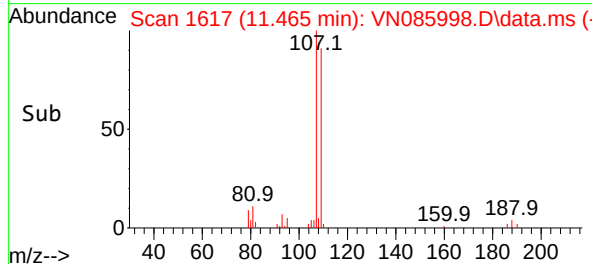
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020



Tgt Ion:107 Resp: 3707
Ion Ratio Lower Upper
107 100
109 94.8 73.3 109.9

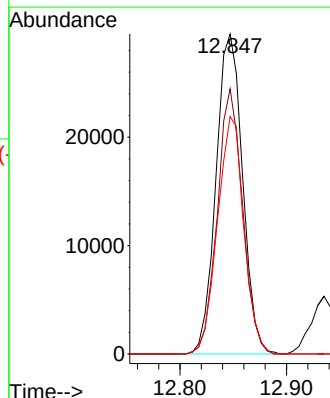
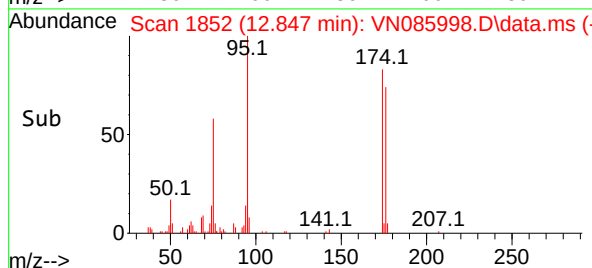
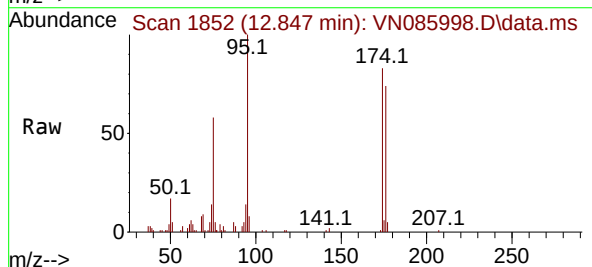
Manual Integrations
APPROVED

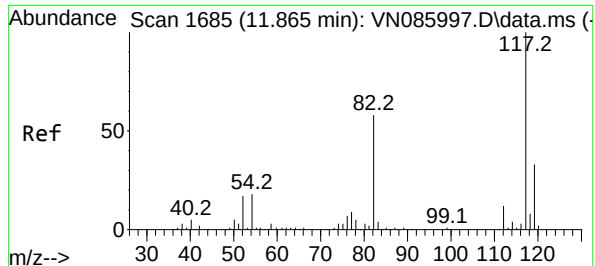
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#62
4-Bromofluorobenzene
Concen: 19.799 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085998.D
Acq: 18 Mar 2025 12:32

Tgt Ion: 95 Resp: 50895
Ion Ratio Lower Upper
95 100
174 79.0 0.0 156.8
176 73.9 0.0 152.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN085998.D

Acq: 18 Mar 2025 12:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion:117 Resp: 25168

Ion Ratio Lower Upper

117 100

82 56.1 46.7 70.1

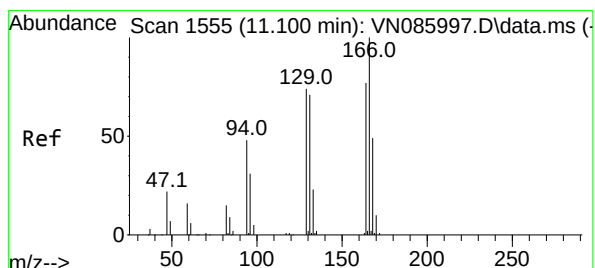
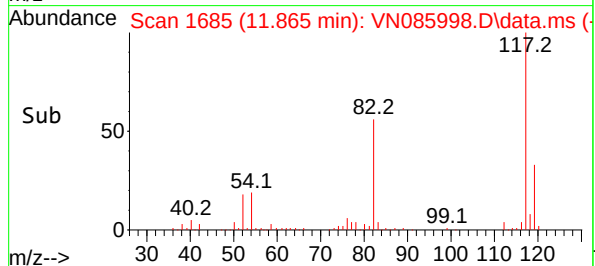
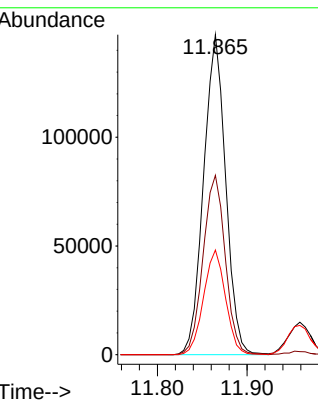
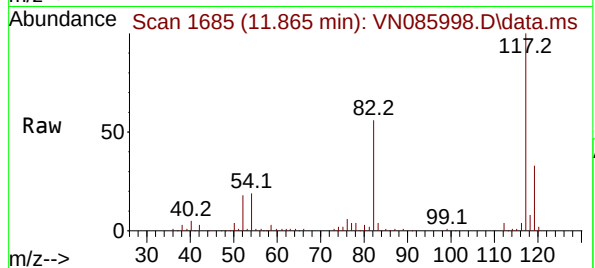
119 32.7 26.5 39.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#64

Tetrachloroethene

Concen: 18.572 ug/l

RT: 11.100 min Scan# 1555

Delta R.T. -0.000 min

Lab File: VN085998.D

Acq: 18 Mar 2025 12:32

Tgt Ion:164 Resp: 37287

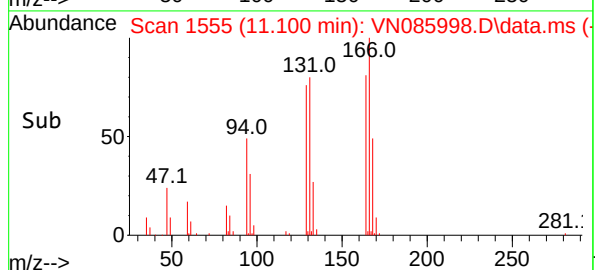
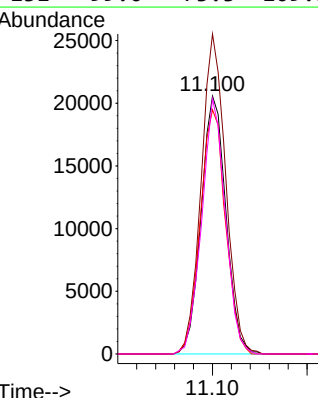
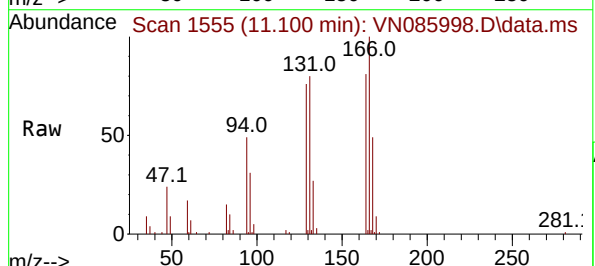
Ion Ratio Lower Upper

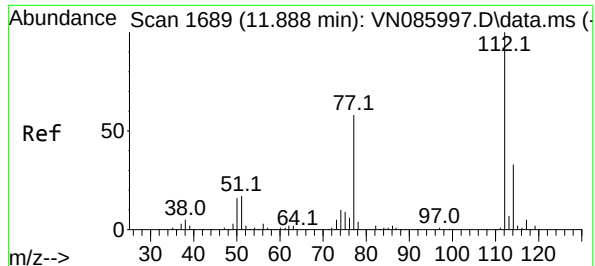
164 100

166 124.1 103.7 155.5

129 94.7 77.1 115.7

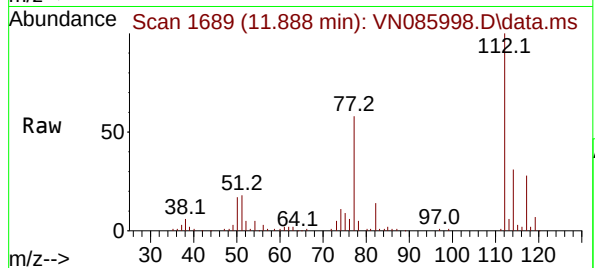
131 99.0 73.3 109.9





#65
Chlorobenzene
Concen: 18.708 ug/l
RT: 11.888 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN085998.D
Acq: 18 Mar 2025 12:32

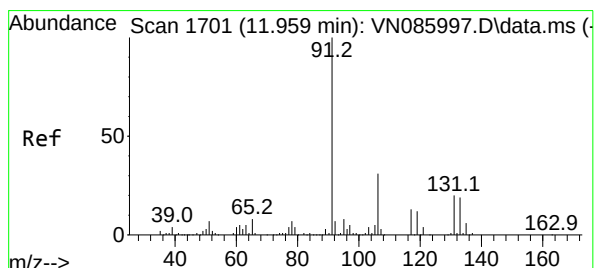
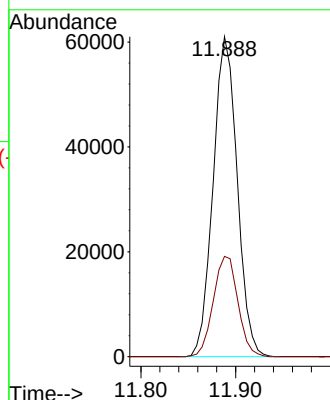
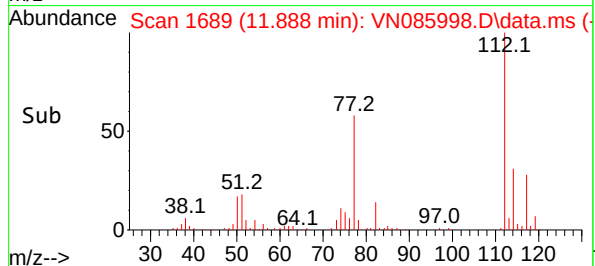
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020



Tgt Ion:112 Resp: 10774
Ion Ratio Lower Upper
112 100
114 31.4 26.3 39.5

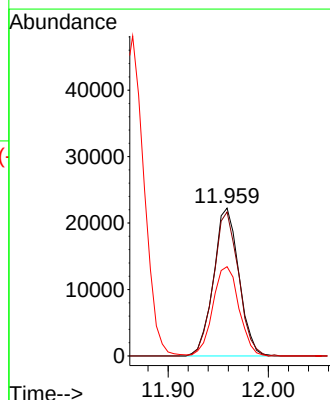
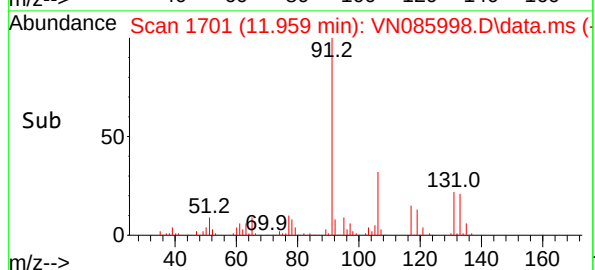
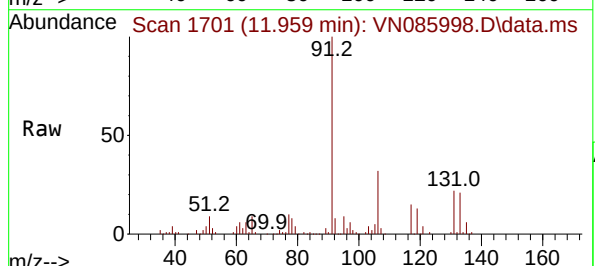
Manual Integrations
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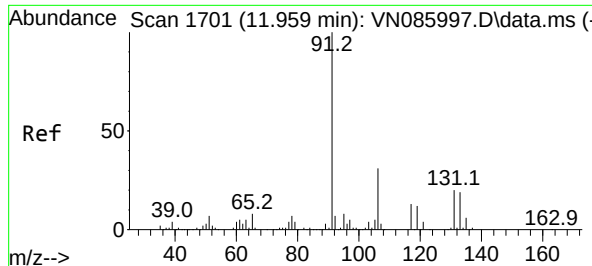
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 18.264 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN085998.D
Acq: 18 Mar 2025 12:32

Tgt Ion:131 Resp: 39102
Ion Ratio Lower Upper
131 100
133 96.4 47.0 141.0
119 62.1 31.4 94.0





#67

Ethyl Benzene

Concen: 19.060 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VN085998.D

Acq: 18 Mar 2025 12:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 91 Resp: 17559

Ion Ratio Lower Upper

91 100

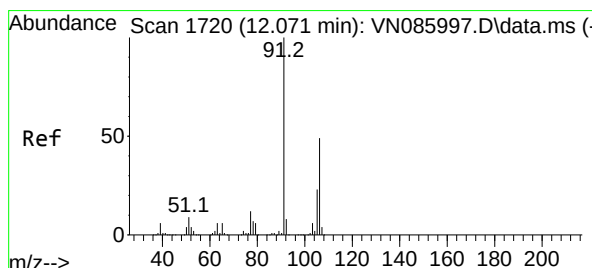
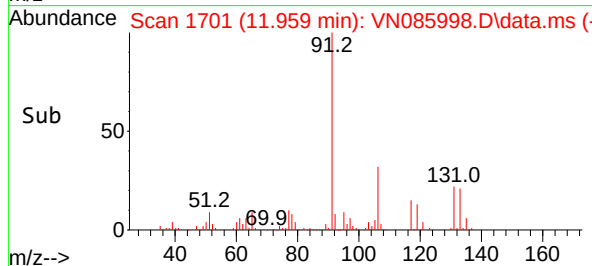
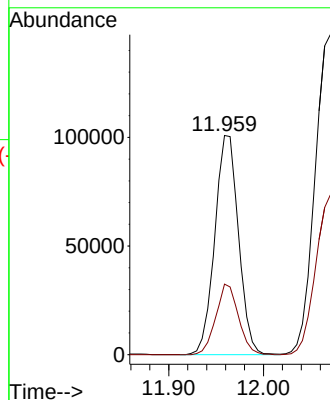
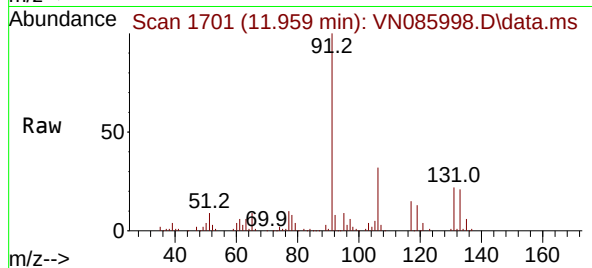
106 32.2 24.5 36.7

Manual Integrations

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Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#68

m/p-Xylenes

Concen: 38.948 ug/l

RT: 12.071 min Scan# 1720

Delta R.T. -0.000 min

Lab File: VN085998.D

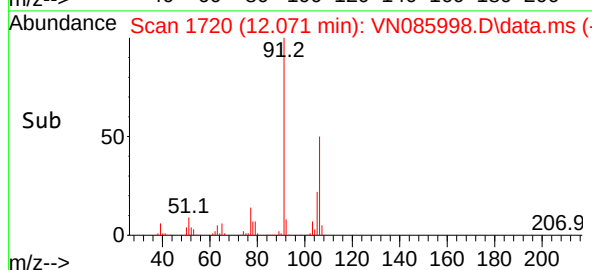
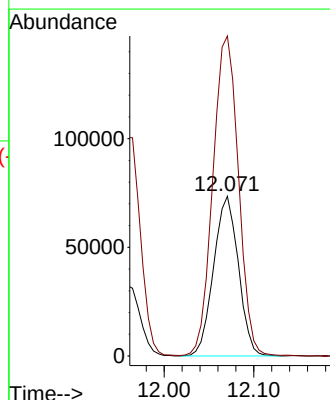
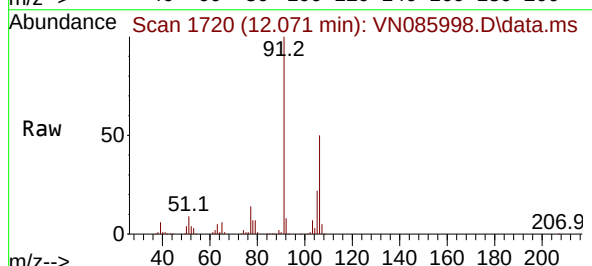
Acq: 18 Mar 2025 12:32

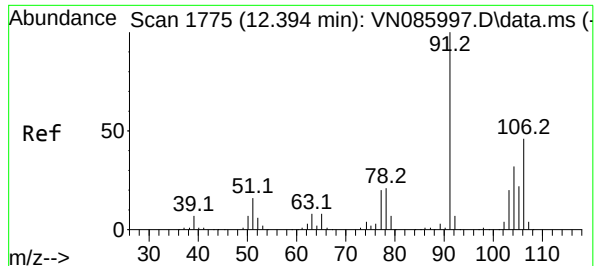
Tgt Ion:106 Resp: 141029

Ion Ratio Lower Upper

106 100

91 206.8 163.9 245.9





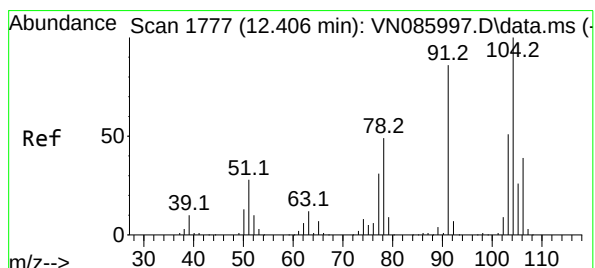
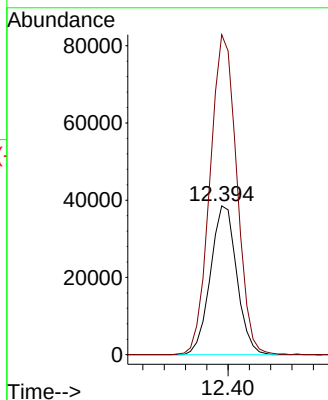
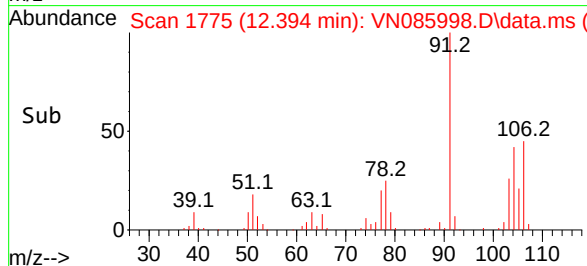
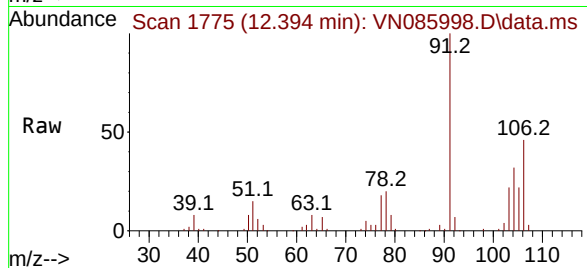
#69
o-Xylene
Concen: 19.853 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. -0.000 min
Lab File: VN085998.D
Acq: 18 Mar 2025 12:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion:106 Resp: 65978
Ion Ratio Lower Upper
106 100
91 219.1 109.1 327.2

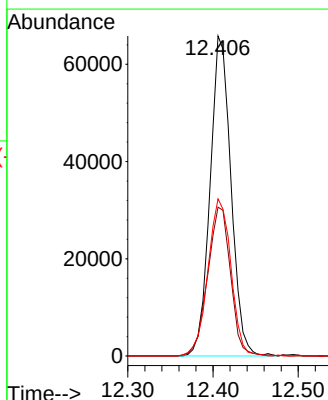
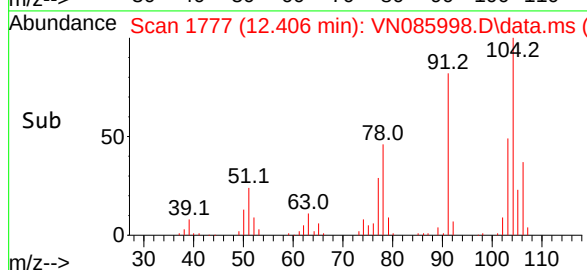
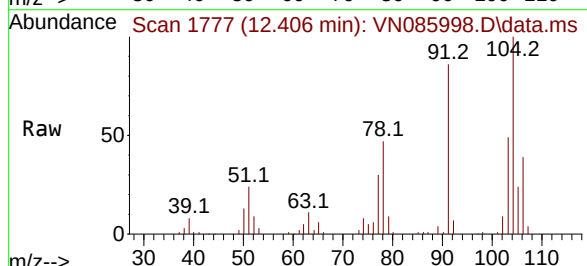
Manual Integrations
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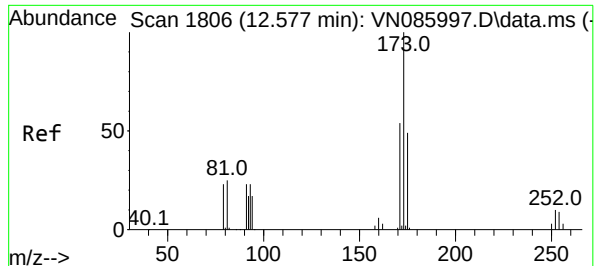
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#70
Styrene
Concen: 19.780 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VN085998.D
Acq: 18 Mar 2025 12:32

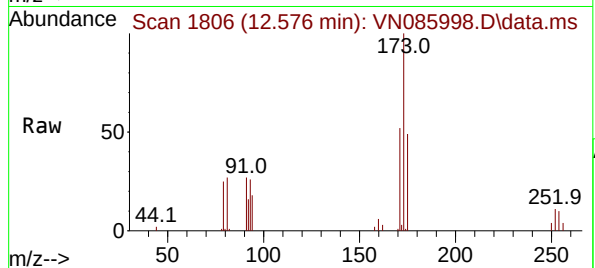
Tgt Ion:104 Resp: 112279
Ion Ratio Lower Upper
104 100
78 50.9 41.4 62.2
103 54.1 42.9 64.3





#71
Bromoform
Concen: 18.487 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. -0.000 min
Lab File: VN085998.D
Acq: 18 Mar 2025 12:32

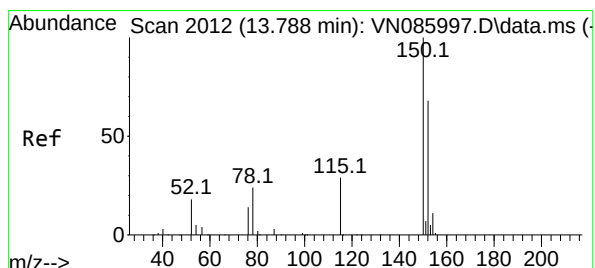
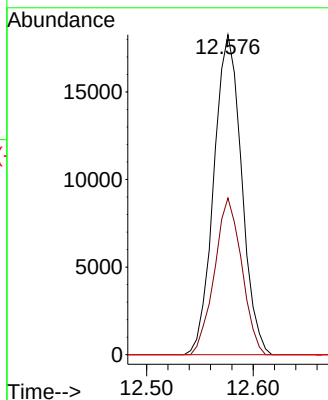
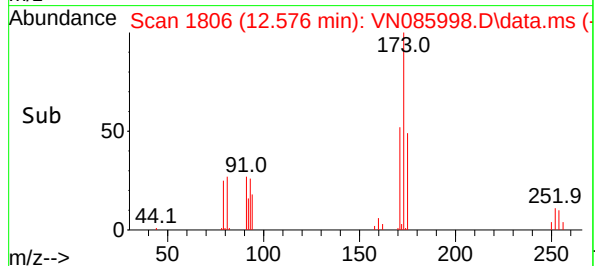
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020



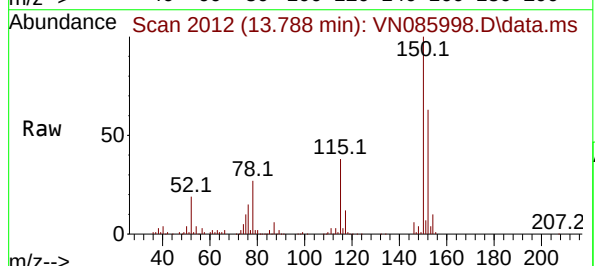
Tgt Ion:173 Resp: 33080
Ion Ratio Lower Upper
173 100
175 47.9 24.3 73.0
254 0.0 0.0 0.0

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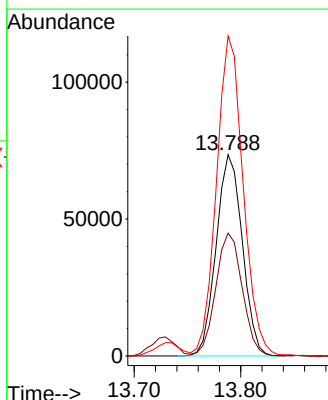
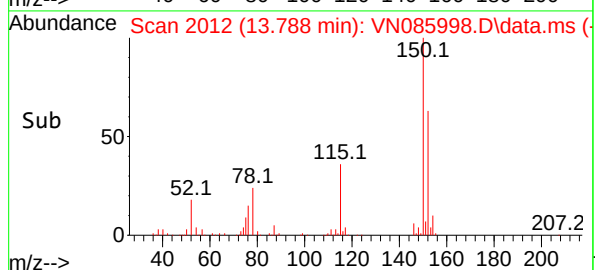
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025

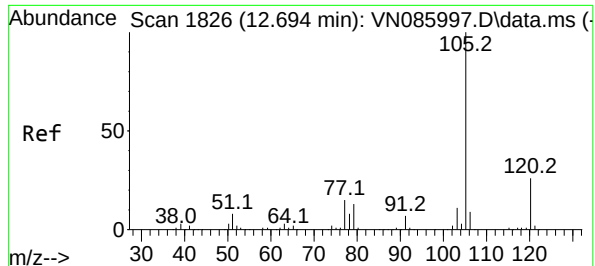


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN085998.D
Acq: 18 Mar 2025 12:32



Tgt Ion:152 Resp: 125230
Ion Ratio Lower Upper
152 100
115 61.8 31.1 93.2
150 162.6 0.0 359.6





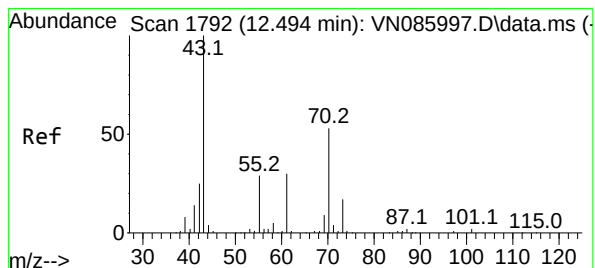
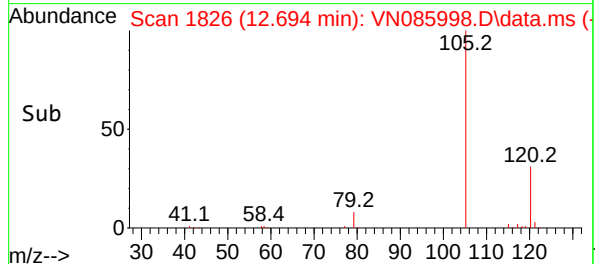
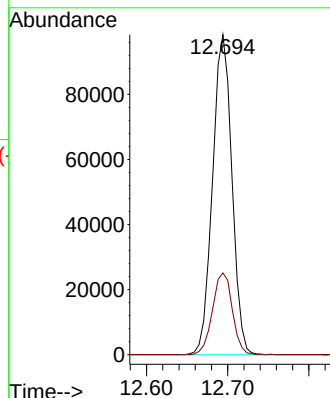
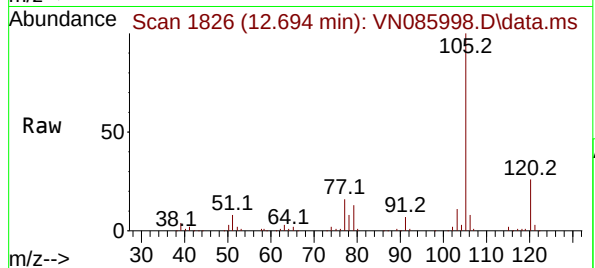
#73
Isopropylbenzene
Concen: 19.041 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. -0.000 min
Lab File: VN085998.D
Acq: 18 Mar 2025 12:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tgt Ion:105 Resp: 162838
Ion Ratio Lower Upper
105 100
120 26.1 13.0 39.0

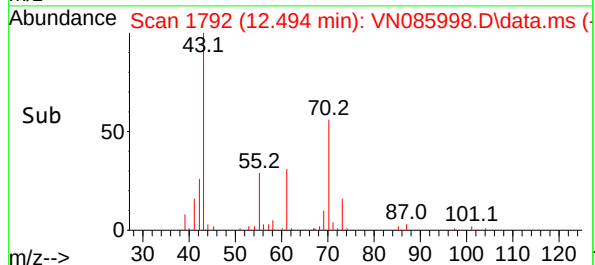
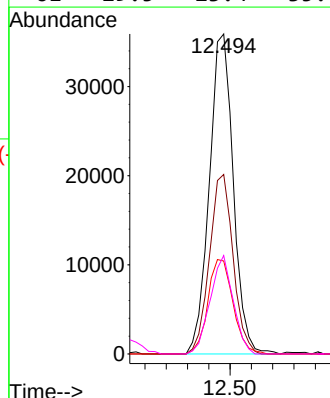
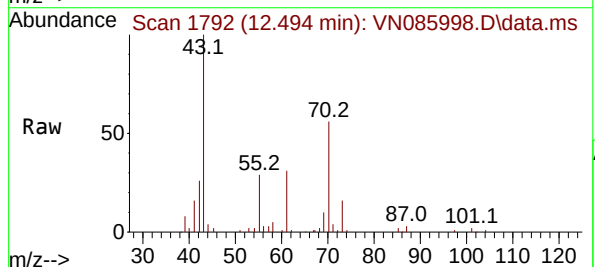
Manual Integrations
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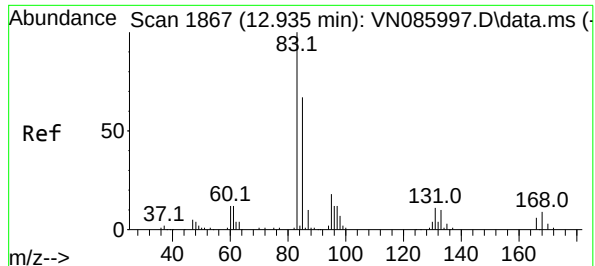
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#74
N-ethyl acetate
Concen: 19.630 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. -0.000 min
Lab File: VN085998.D
Acq: 18 Mar 2025 12:32

Tgt Ion: 43 Resp: 56163
Ion Ratio Lower Upper
43 100
70 55.2 43.0 64.4
55 31.0 23.8 35.8
61 29.5 23.4 35.0





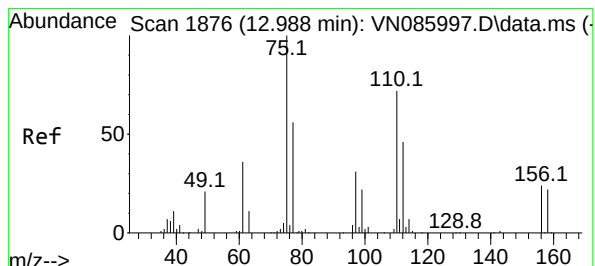
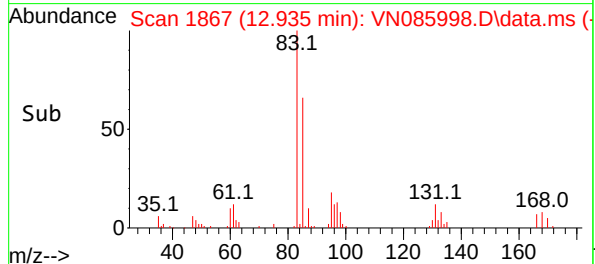
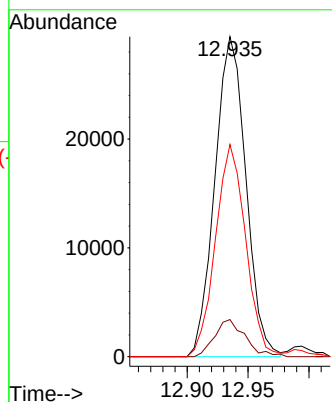
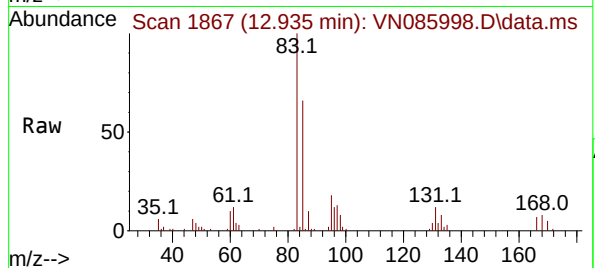
#75
1,1,2,2-Tetrachloroethane
Concen: 18.023 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. -0.000 min
Lab File: VN085998.D
Acq: 18 Mar 2025 12:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 83 Resp: 52144
Ion Ratio Lower Upper
83 100
131 11.4 5.5 16.5
85 64.4 32.6 97.8

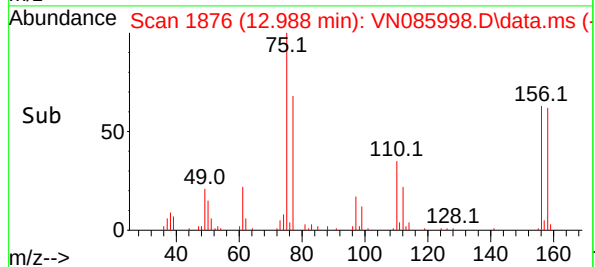
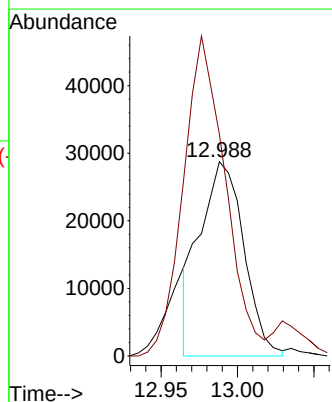
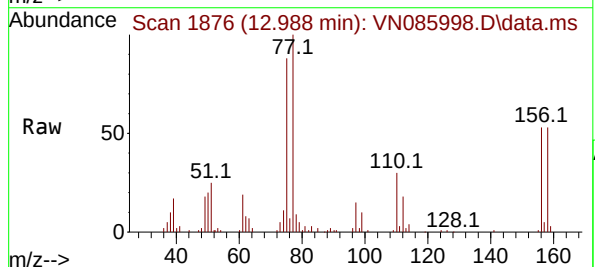
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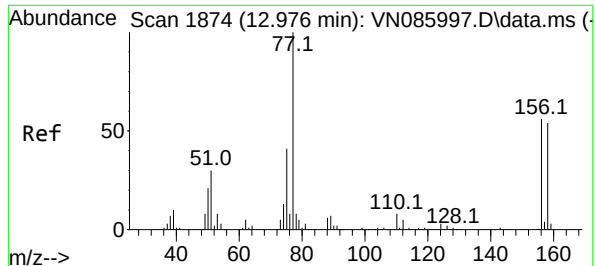
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#76
1,2,3-Trichloropropane
Concen: 20.137 ug/l m
RT: 12.988 min Scan# 1876
Delta R.T. -0.000 min
Lab File: VN085998.D
Acq: 18 Mar 2025 12:32

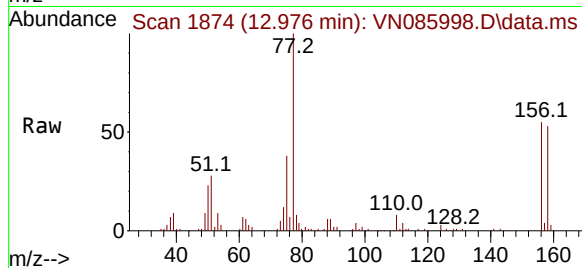
Tgt Ion: 75 Resp: 57493
Ion Ratio Lower Upper
75 100
77 157.3 83.7 251.0





#77
Bromobenzene
Concen: 18.439 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. -0.000 min
Lab File: VN085998.D
Acq: 18 Mar 2025 12:32

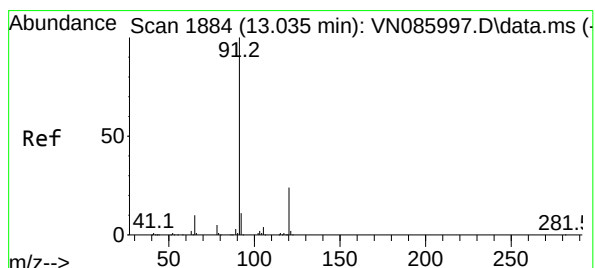
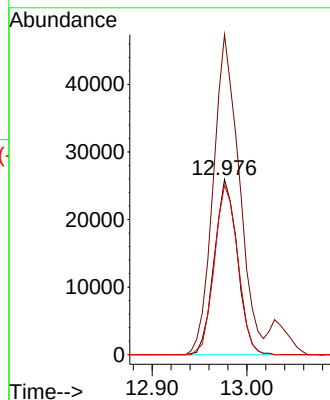
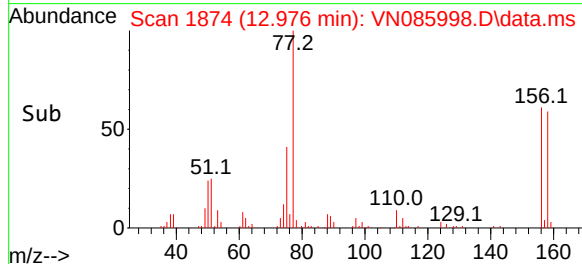
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020



Tgt Ion:156 Resp: 43968
Ion Ratio Lower Upper
156 100
77 205.7 104.1 312.3
158 98.3 49.0 147.0

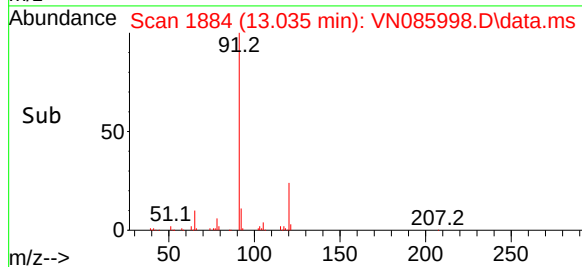
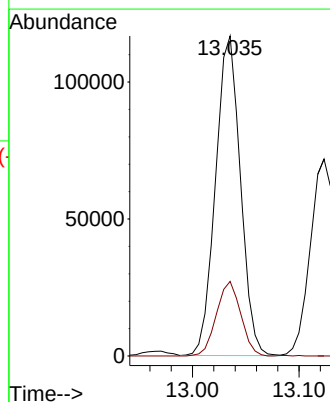
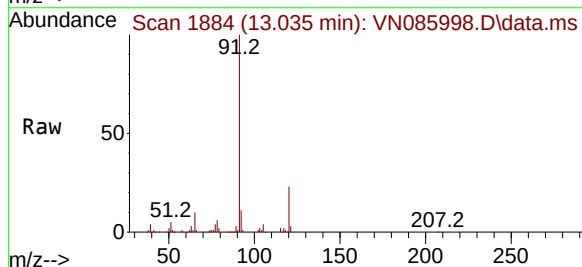
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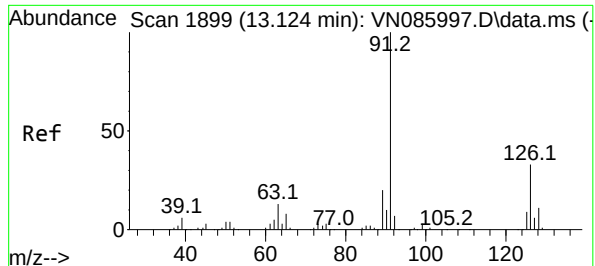
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#78
n-propylbenzene
Concen: 19.524 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN085998.D
Acq: 18 Mar 2025 12:32

Tgt Ion: 91 Resp: 189068
Ion Ratio Lower Upper
91 100
120 22.8 11.7 35.0





#79

2-Chlorotoluene

Concen: 19.256 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. -0.000 min

Lab File: VN085998.D

Acq: 18 Mar 2025 12:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 91 Resp: 123854

Ion Ratio Lower Upper

91 100

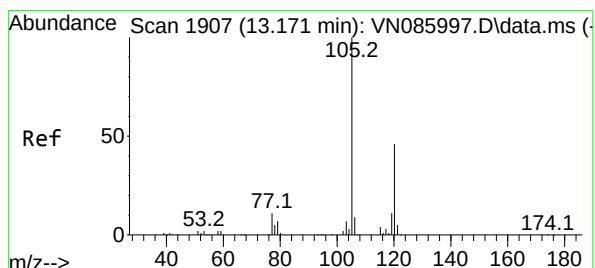
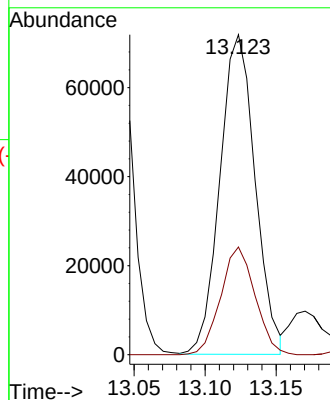
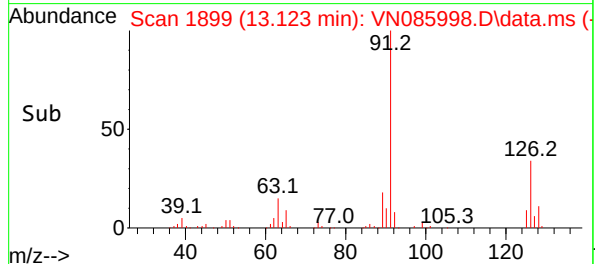
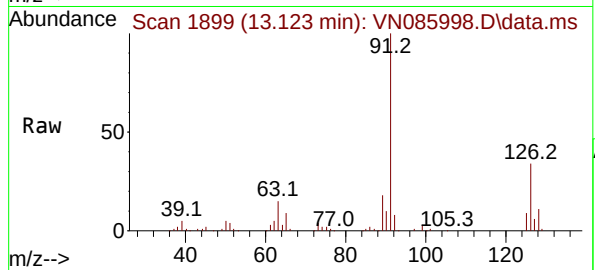
126 32.8 16.4 49.2

Manual Integrations

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Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#80

1,3,5-Trimethylbenzene

Concen: 19.740 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VN085998.D

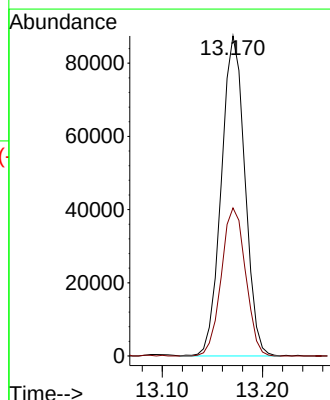
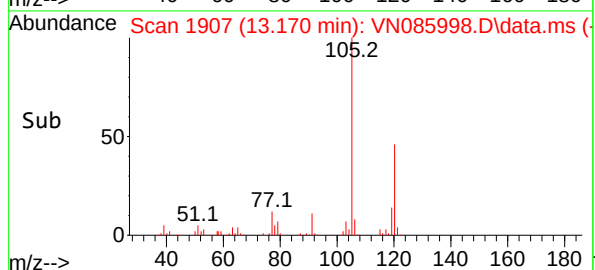
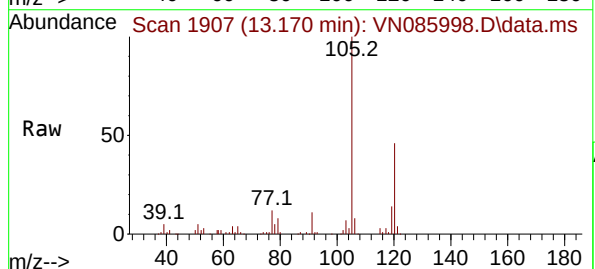
Acq: 18 Mar 2025 12:32

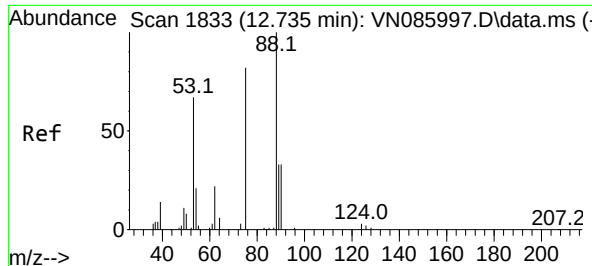
Tgt Ion:105 Resp: 142528

Ion Ratio Lower Upper

105 100

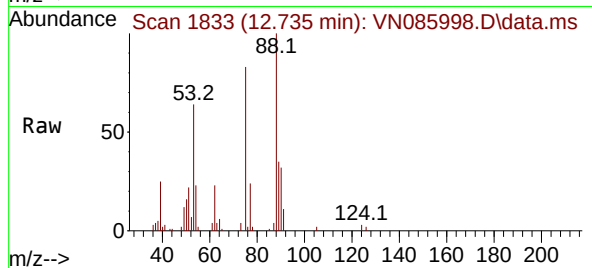
120 47.4 23.7 71.1





#81
trans-1,4-Dichloro-2-butene
Concen: 19.827 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. -0.000 min
Lab File: VN085998.D
Acq: 18 Mar 2025 12:32

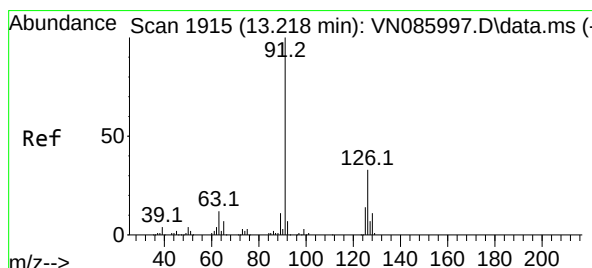
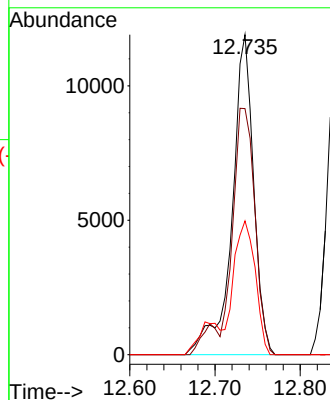
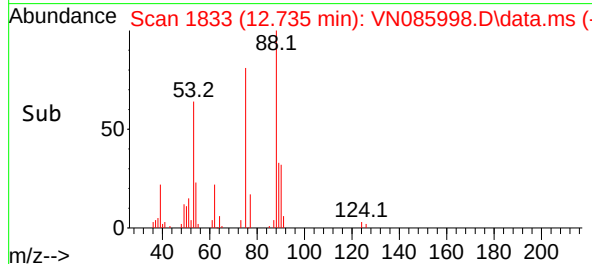
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020



Tgt Ion: 75 Resp: 21020
Ion Ratio Lower Upper
75 100
53 77.5 66.0 99.0
89 42.3 36.9 55.3

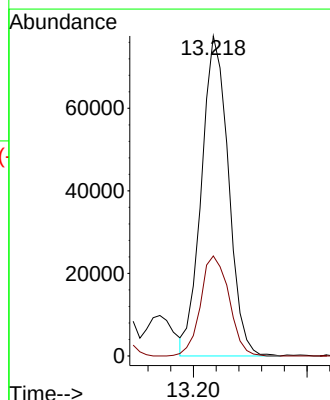
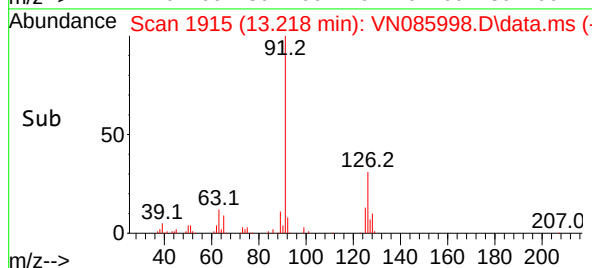
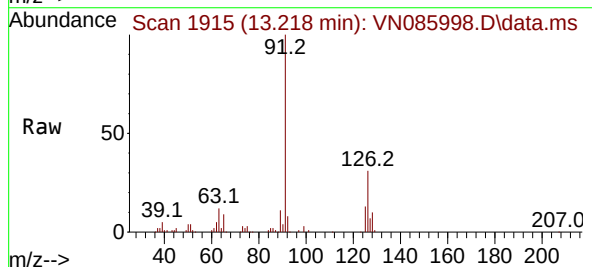
Manual Integrations
APPROVED

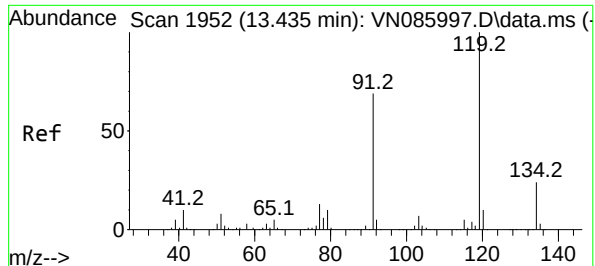
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#82
4-Chlorotoluene
Concen: 19.376 ug/l
RT: 13.218 min Scan# 1915
Delta R.T. -0.000 min
Lab File: VN085998.D
Acq: 18 Mar 2025 12:32

Tgt Ion: 91 Resp: 128159
Ion Ratio Lower Upper
91 100
126 32.9 16.1 48.2





#83

tert-Butylbenzene

Concen: 18.570 ug/l

RT: 13.435 min Scan# 1952

Delta R.T. -0.000 min

Lab File: VN085998.D

Acq: 18 Mar 2025 12:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion:119 Resp: 114669

Ion Ratio Lower Upper

119 100

91 69.4 34.3 102.9

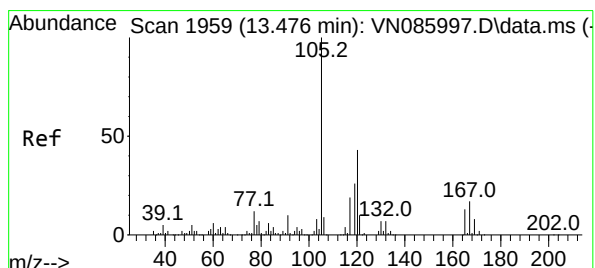
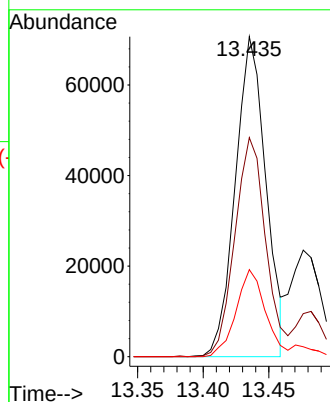
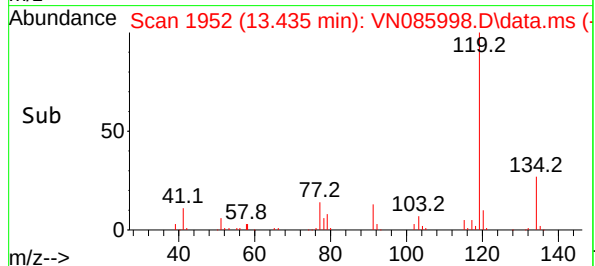
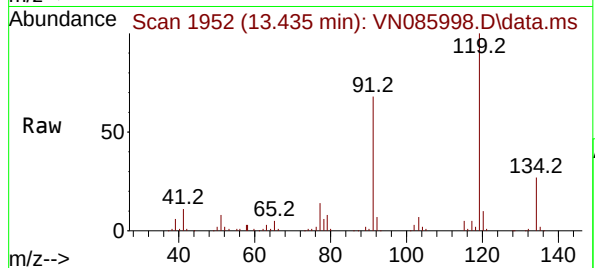
134 26.2 13.5 40.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#84

1,2,4-Trimethylbenzene

Concen: 19.850 ug/l

RT: 13.482 min Scan# 1960

Delta R.T. 0.006 min

Lab File: VN085998.D

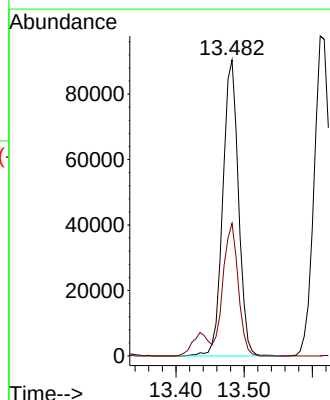
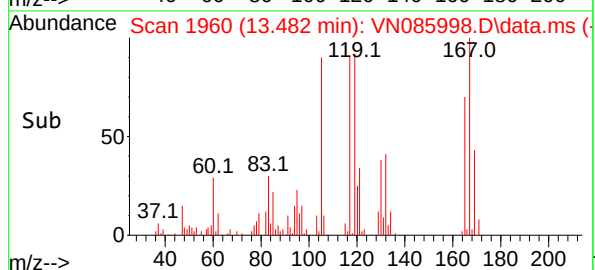
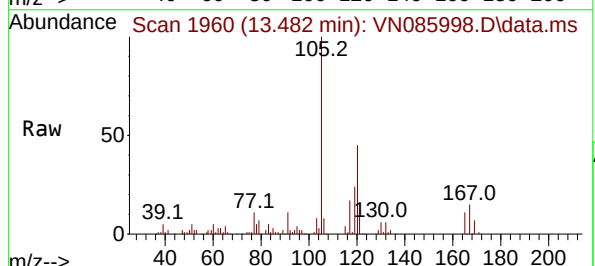
Acq: 18 Mar 2025 12:32

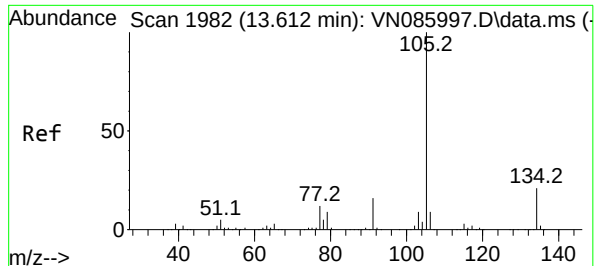
Tgt Ion:105 Resp: 144557

Ion Ratio Lower Upper

105 100

120 43.6 21.9 65.8





#85

sec-Butylbenzene

Concen: 19.734 ug/l

RT: 13.612 min Scan# 1982

Delta R.T. -0.000 min

Lab File: VN085998.D

Acq: 18 Mar 2025 12:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion:105 Resp: 158970

Ion Ratio Lower Upper

105 100

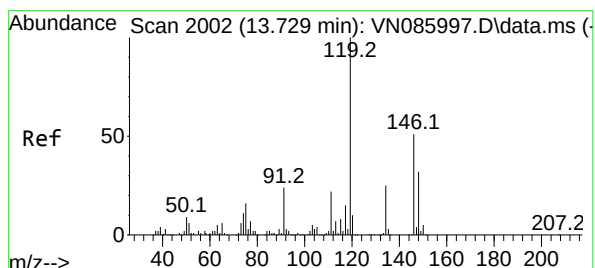
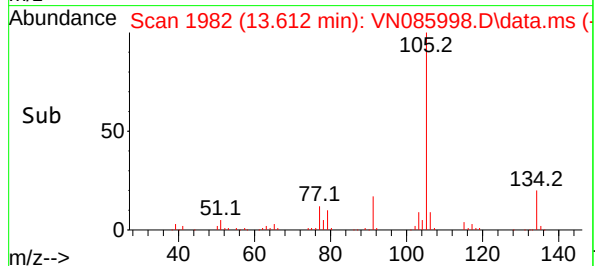
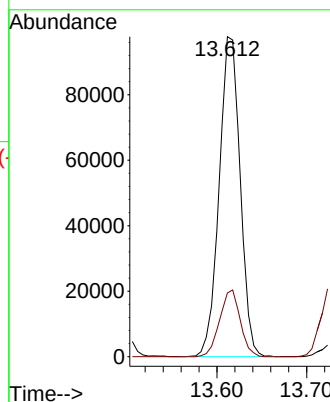
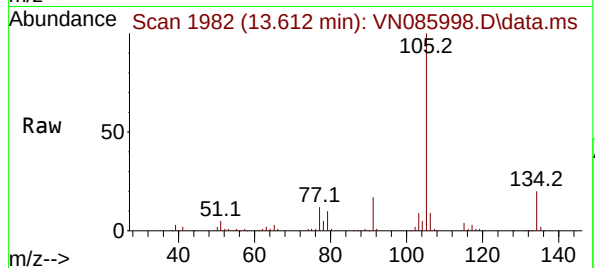
134 20.4 10.1 30.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#86

p-Isopropyltoluene

Concen: 19.611 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.000 min

Lab File: VN085998.D

Acq: 18 Mar 2025 12:32

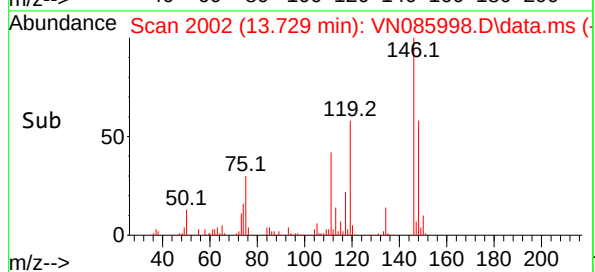
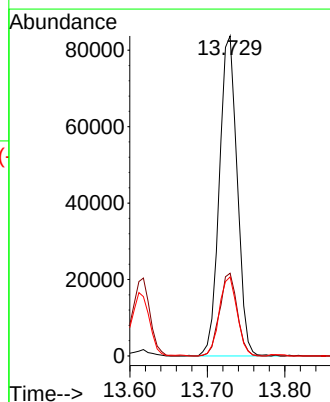
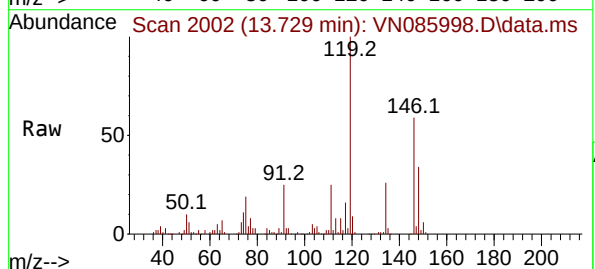
Tgt Ion:119 Resp: 133733

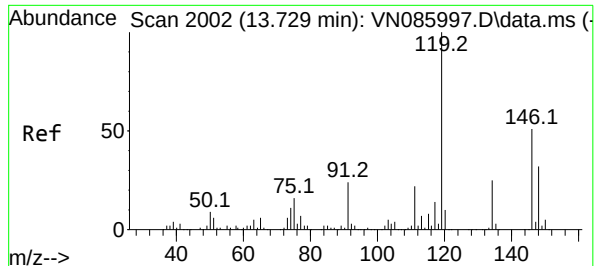
Ion Ratio Lower Upper

119 100

134 25.8 12.6 37.8

91 24.8 12.3 36.8





#87

1,3-Dichlorobenzene

Concen: 18.809 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.000 min

Lab File: VN085998.D

Acq: 18 Mar 2025 12:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

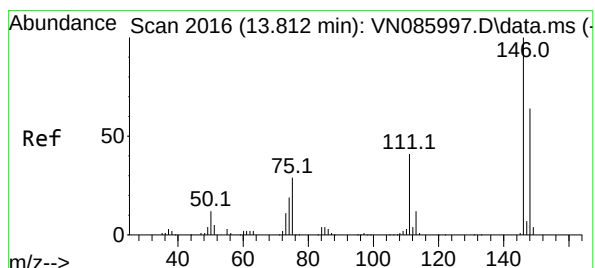
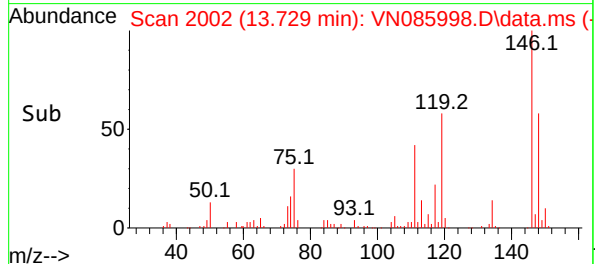
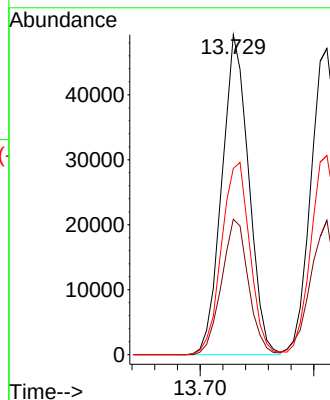
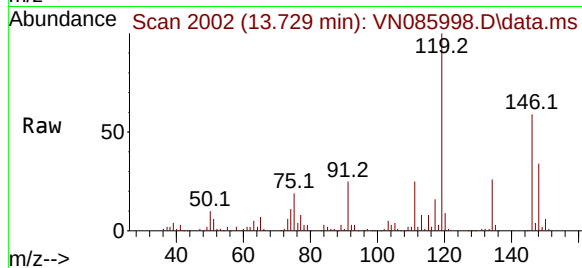
Tgt Ion:146	Resp:	8084
Ion Ratio	Lower	Upper
146	100	
111	42.4	21.2 63.6
148	63.8	31.8 95.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#88

1,4-Dichlorobenzene

Concen: 17.975 ug/l

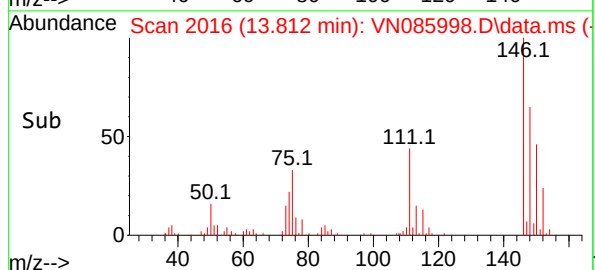
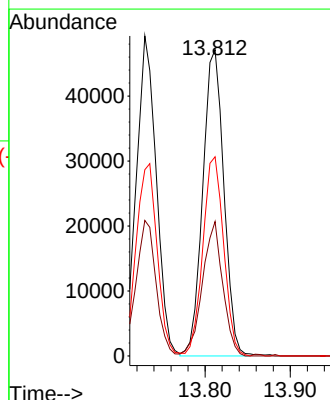
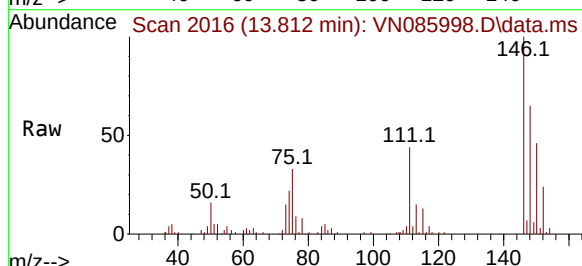
RT: 13.812 min Scan# 2016

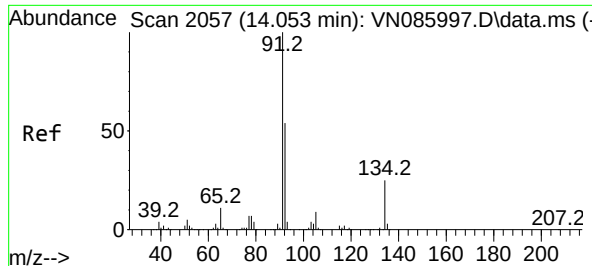
Delta R.T. -0.000 min

Lab File: VN085998.D

Acq: 18 Mar 2025 12:32

Tgt Ion:146	Resp:	81175
Ion Ratio	Lower	Upper
146	100	
111	42.1	20.4 61.3
148	64.1	32.1 96.5





#89

n-Butylbenzene

Concen: 18.649 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.000 min

Lab File: VN085998.D

Acq: 18 Mar 2025 12:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

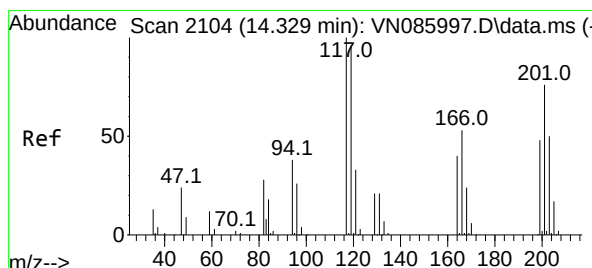
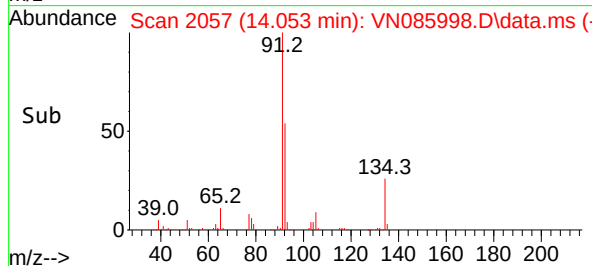
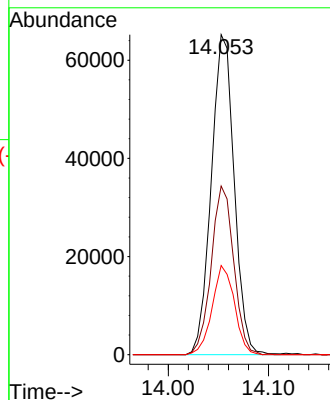
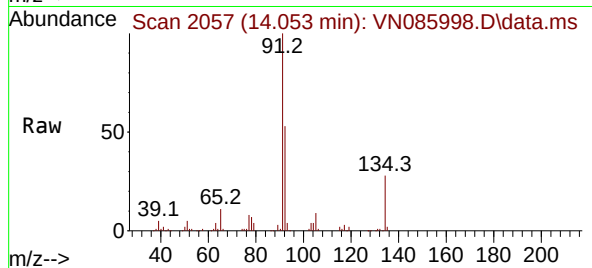
Tgt Ion:	91	Resp:	10355
Ion Ratio	Lower	Upper	
91	100		
92	51.9	26.9	80.6
134	27.1	13.0	39.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#90

Hexachloroethane

Concen: 17.249 ug/l

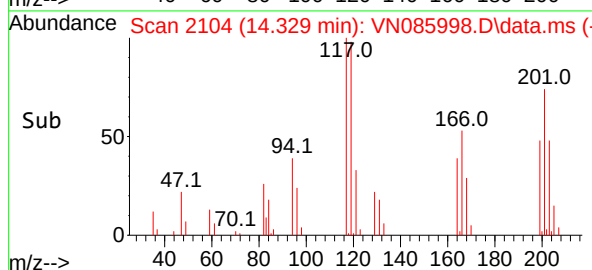
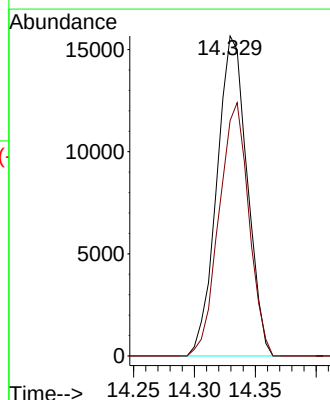
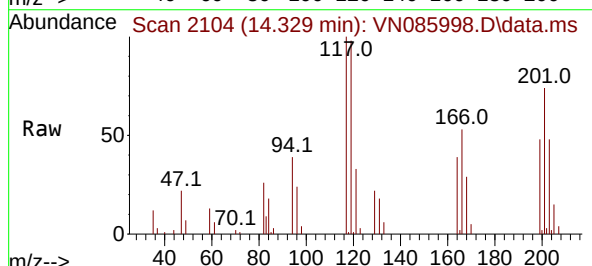
RT: 14.329 min Scan# 2104

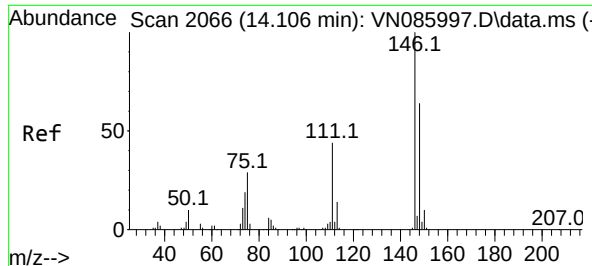
Delta R.T. -0.000 min

Lab File: VN085998.D

Acq: 18 Mar 2025 12:32

Tgt Ion:	117	Resp:	27141
Ion Ratio	Lower	Upper	
117	100		
201	77.9	39.1	117.3





#91

1,2-Dichlorobenzene

Concen: 17.839 ug/l

RT: 14.106 min Scan# 2066

Delta R.T. -0.000 min

Lab File: VN085998.D

Acq: 18 Mar 2025 12:32

Instrument :

MSVOA_N

ClientSampleId :

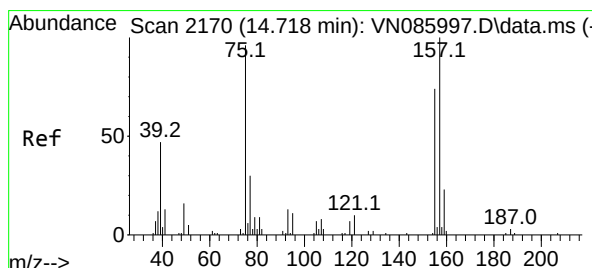
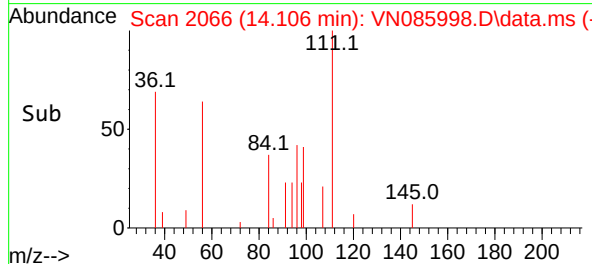
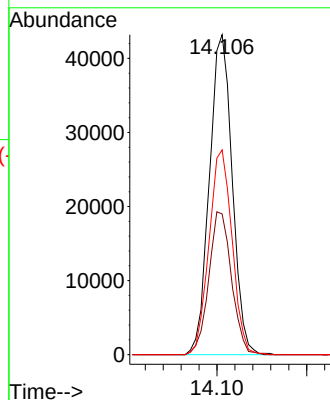
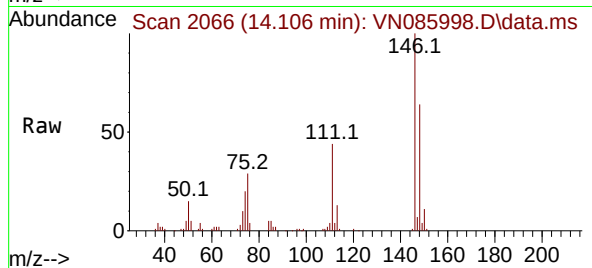
VSTDIC020

Tgt Ion:	146	Resp:	7622
Ion	Ratio	Lower	Upper
146	100		
111	44.5	22.3	66.8
148	64.6	32.1	96.5

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#92

1,2-Dibromo-3-Chloropropane

Concen: 18.692 ug/l

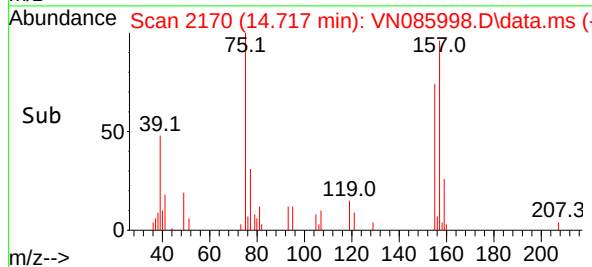
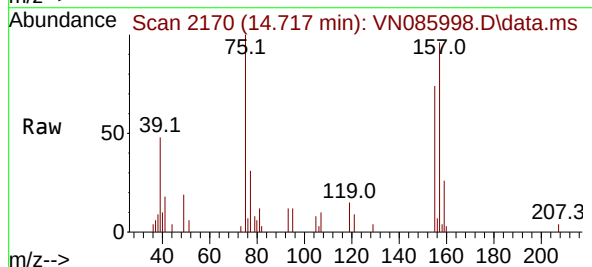
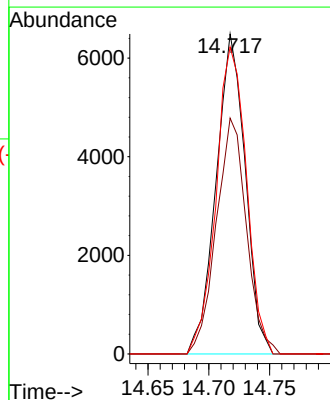
RT: 14.717 min Scan# 2170

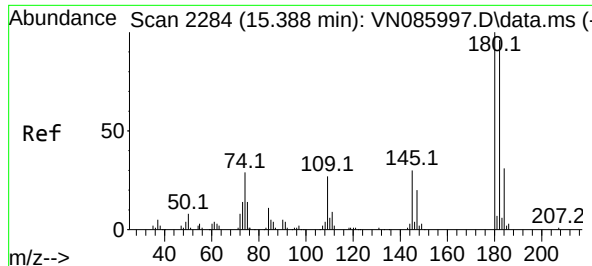
Delta R.T. -0.000 min

Lab File: VN085998.D

Acq: 18 Mar 2025 12:32

Tgt Ion:	75	Resp:	10795
Ion	Ratio	Lower	Upper
75	100		
155	76.3	41.0	123.0
157	100.0	53.7	161.1





#93

1,2,4-Trichlorobenzene

Concen: 18.166 ug/l

RT: 15.388 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN085998.D

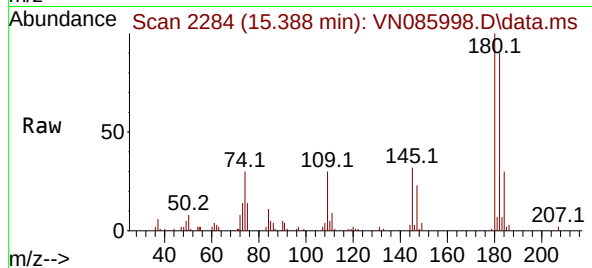
Acq: 18 Mar 2025 12:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020



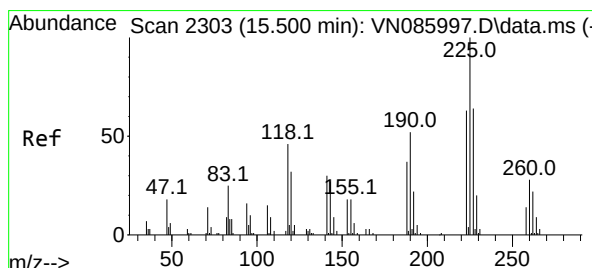
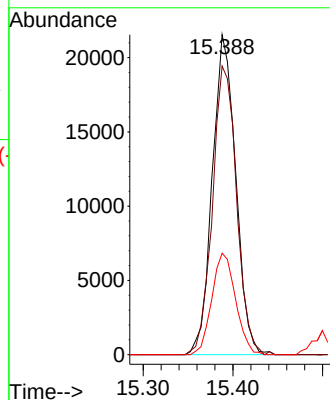
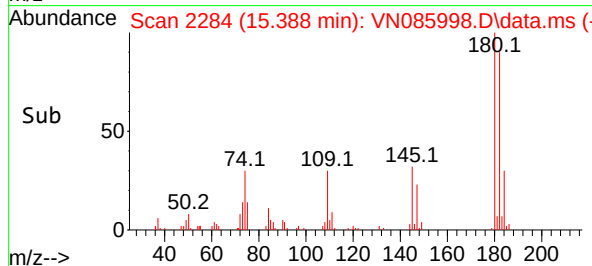
Tgt Ion:180	Resp:	39028
Ion Ratio	Lower	Upper
180	100	
182	92.6	47.0 141.0
145	32.2	15.5 46.5

Manual Integrations

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Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#94

Hexachlorobutadiene

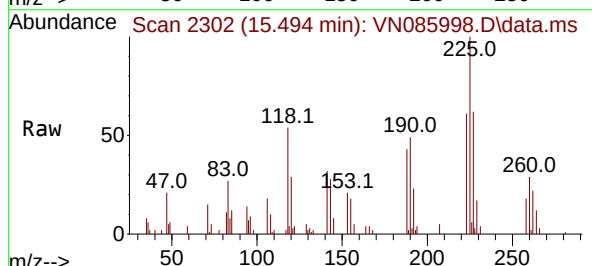
Concen: 18.244 ug/l

RT: 15.494 min Scan# 2302

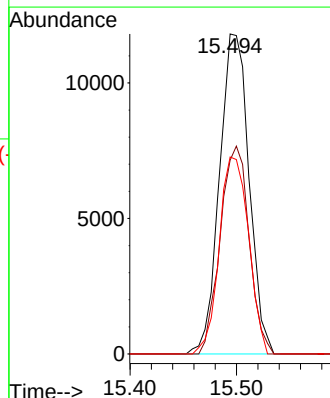
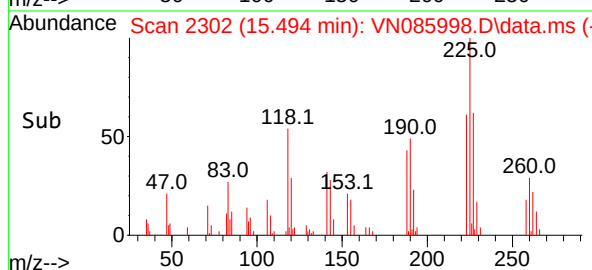
Delta R.T. -0.006 min

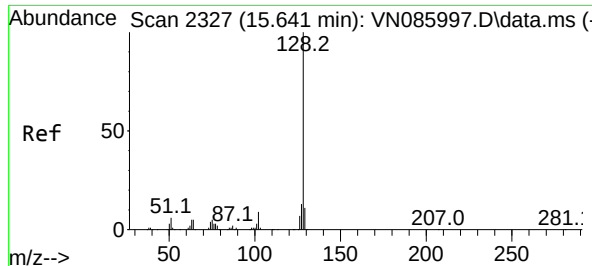
Lab File: VN085998.D

Acq: 18 Mar 2025 12:32



Tgt Ion:225	Resp:	22741
Ion Ratio	Lower	Upper
225	100	
223	63.4	31.3 93.9
227	61.2	32.1 96.3





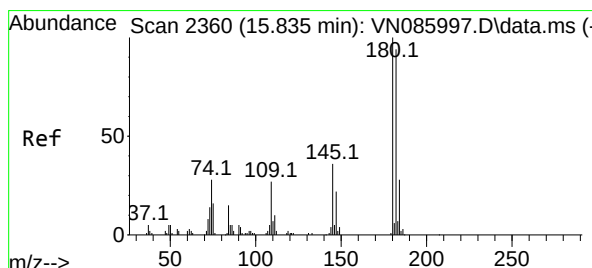
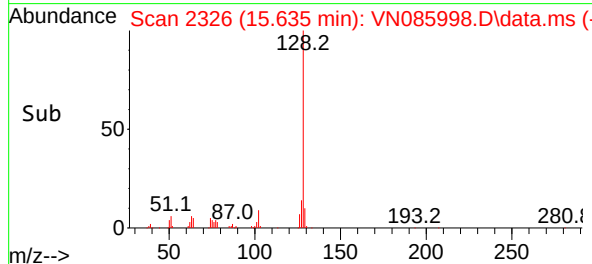
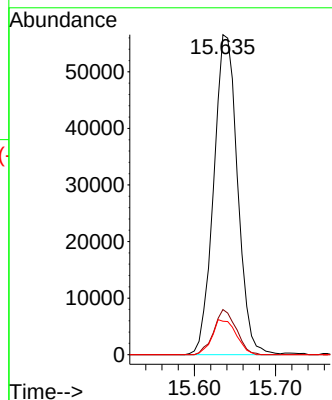
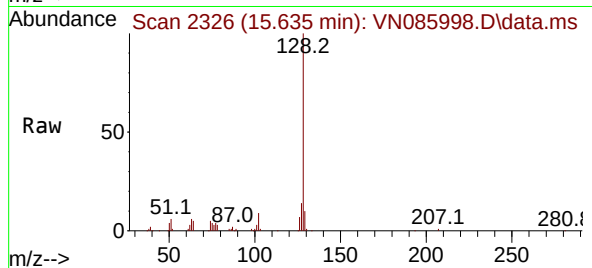
#95
Naphthalene
Concen: 18.564 ug/l
RT: 15.635 min Scan# 2327
Delta R.T. -0.006 min
Lab File: VN085998.D
Acq: 18 Mar 2025 12:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion:128 Resp: 11549
Ion Ratio Lower Upper
128 100
127 13.3 10.2 15.4
129 11.0 9.0 13.6

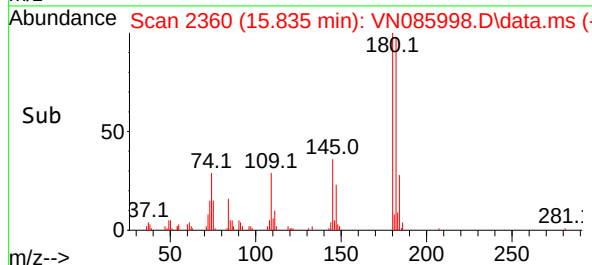
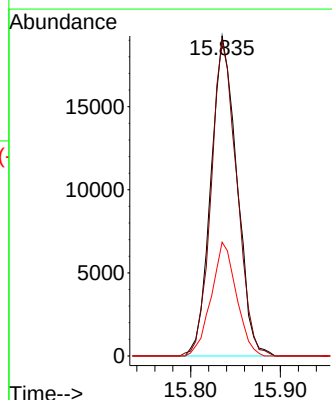
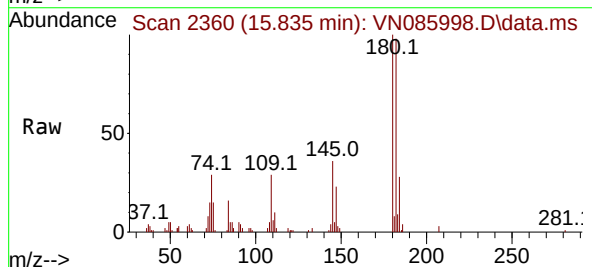
Manual Integrations
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Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#96
1,2,3-Trichlorobenzene
Concen: 18.975 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VN085998.D
Acq: 18 Mar 2025 12:32

Tgt Ion:180 Resp: 38684
Ion Ratio Lower Upper
180 100
182 97.2 47.5 142.5
145 34.5 17.7 53.1



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031825\
 Data File : VN085999.D
 Acq On : 18 Mar 2025 12:57
 Operator : JC\MD
 Sample : VSTDICC010
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC010

Quant Time: Mar 19 02:55:17 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 19 02:30:27 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

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

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	177085	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	284484	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	249106	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	112825	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.576	65	25519	10.524	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	21.040%#		
35) Dibromofluoromethane	8.159	113	20600	10.374	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	20.740%#		
50) Toluene-d8	10.565	98	73317	10.174	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	20.340%#		
62) 4-Bromofluorobenzene	12.847	95	25049	9.746	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	19.500%#		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	22978	9.794	ug/l	100
3) Chloromethane	2.359	50	19259	9.364	ug/l	99
4) Vinyl Chloride	2.512	62	20562	9.778	ug/l	97
5) Bromomethane	2.965	94	14539	10.150	ug/l	95
6) Chloroethane	3.118	64	13400	10.101	ug/l	98
7) Trichlorofluoromethane	3.494	101	36653	9.696	ug/l	96
8) Diethyl Ether	3.959	74	11412	9.861	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.377	101	19603	9.757	ug/l	98
10) Methyl Iodide	4.589	142	25149	9.606	ug/l #	94
11) Tert butyl alcohol	5.530	59	17174	50.023	ug/l #	88
12) 1,1-Dichloroethene	4.341	96	19300	10.638	ug/l	99
13) Acrolein	4.177	56	17536	47.889	ug/l	99
14) Allyl chloride	5.030	41	21799	9.631	ug/l	99
15) Acrylonitrile	5.718	53	45069	49.706	ug/l	99
16) Acetone	4.424	43	34466	46.524	ug/l	93
17) Carbon Disulfide	4.712	76	57012	9.555	ug/l	99
18) Methyl Acetate	5.018	43	17854	9.741	ug/l	99
19) Methyl tert-butyl Ether	5.794	73	56795	9.553	ug/l	98
20) Methylene Chloride	5.271	84	20262	9.349	ug/l	98
21) trans-1,2-Dichloroethene	5.788	96	19340	9.754	ug/l	95
22) Diisopropyl ether	6.677	45	49389	10.240	ug/l	95
23) Vinyl Acetate	6.606	43	180182	49.277	ug/l	97
24) 1,1-Dichloroethane	6.571	63	34294	9.669	ug/l	97
25) 2-Butanone	7.488	43	52665	49.267	ug/l	93
26) 2,2-Dichloropropane	7.482	77	32775	9.598	ug/l	98
27) cis-1,2-Dichloroethene	7.488	96	21843	9.695	ug/l	97
28) Bromochloromethane	7.812	49	14293	9.512	ug/l	98
29) Tetrahydrofuran	7.841	42	33470	50.716	ug/l	98
30) Chloroform	7.965	83	38998	9.948	ug/l	95
31) Cyclohexane	8.259	56	30234	10.006	ug/l	96
32) 1,1,1-Trichloroethane	8.165	97	36307	9.784	ug/l	98
36) 1,1-Dichloropropene	8.371	75	25215	9.644	ug/l	99
37) Ethyl Acetate	7.559	43	22354	10.134	ug/l	99
38) Carbon Tetrachloride	8.359	117	33005	9.601	ug/l	89
39) Methylcyclohexane	9.600	83	22685	8.745	ug/l	89
40) Benzene	8.606	78	78849	9.606	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031825\
 Data File : VN085999.D
 Acq On : 18 Mar 2025 12:57
 Operator : JC\MD
 Sample : VSTDICC010
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC010

Quant Time: Mar 19 02:55:17 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 19 02:30:27 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

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

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.771	41	10855	10.306	ug/l	97
42) 1,2-Dichloroethane	8.671	62	27959	9.776	ug/l	98
43) Isopropyl Acetate	8.688	43	50383m	10.518	ug/l	
44) Trichloroethene	9.353	130	20094	9.446	ug/l	92
45) 1,2-Dichloropropane	9.623	63	18278	9.791	ug/l	97
46) Dibromomethane	9.706	93	14254	9.709	ug/l	98
47) Bromodichloromethane	9.888	83	29326	9.558	ug/l #	99
48) Methyl methacrylate	9.676	41	15095	9.570	ug/l	99
49) 1,4-Dioxane	9.694	88	8137	218.227	ug/l	97
51) 4-Methyl-2-Pentanone	10.441	43	108196	51.326	ug/l	97
52) Toluene	10.629	92	49947	9.915	ug/l	98
53) t-1,3-Dichloropropene	10.835	75	28817	9.670	ug/l	95
54) cis-1,3-Dichloropropene	10.312	75	31572	10.042	ug/l	100
55) 1,1,2-Trichloroethane	11.012	97	18779	9.767	ug/l	94
56) Ethyl methacrylate	10.870	69	25340	10.180	ug/l	97
57) 1,3-Dichloropropane	11.159	76	32516	9.957	ug/l	98
58) 2-Chloroethyl Vinyl ether	10.159	63	56781	60.781	ug/l	99
59) 2-Hexanone	11.194	43	76690	49.939	ug/l	97
60) Dibromochloromethane	11.359	129	24029	9.685	ug/l	98
61) 1,2-Dibromoethane	11.470	107	19500	9.879	ug/l	97
64) Tetrachloroethene	11.100	164	19436	9.781	ug/l	95
65) Chlorobenzene	11.888	112	55590	9.752	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.959	131	20639	9.740	ug/l	97
67) Ethyl Benzene	11.959	91	88133	9.666	ug/l	97
68) m/p-Xylenes	12.070	106	68738	19.180	ug/l	99
69) o-Xylene	12.400	106	32135	9.770	ug/l	99
70) Styrene	12.412	104	51989	9.254	ug/l	98
71) Bromoform	12.576	173	17048	9.624	ug/l #	98
73) Isopropylbenzene	12.694	105	78299	10.163	ug/l	98
74) N-amyl acetate	12.488	43	26009	10.090	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.935	83	26865	10.307	ug/l	98
76) 1,2,3-Trichloropropane	12.994	75	26024m	10.117	ug/l	
77) Bromobenzene	12.976	156	21805	10.150	ug/l	98
78) n-propylbenzene	13.035	91	87149	9.989	ug/l	100
79) 2-Chlorotoluene	13.123	91	58382	10.075	ug/l	99
80) 1,3,5-Trimethylbenzene	13.170	105	65511	10.071	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.735	75	9044	9.466	ug/l	95
82) 4-Chlorotoluene	13.217	91	60050	10.077	ug/l	100
83) tert-Butylbenzene	13.435	119	56793	10.208	ug/l	96
84) 1,2,4-Trimethylbenzene	13.482	105	66424	10.124	ug/l	99
85) sec-Butylbenzene	13.611	105	73271	10.096	ug/l	100
86) p-Isopropyltoluene	13.723	119	60661	9.874	ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	39474	10.194	ug/l	99
88) 1,4-Dichlorobenzene	13.811	146	39616	9.737	ug/l	97
89) n-Butylbenzene	14.053	91	46910	9.376	ug/l	97
90) Hexachloroethane	14.329	117	13417	9.464	ug/l	95
91) 1,2-Dichlorobenzene	14.106	146	37747	9.805	ug/l	97
92) 1,2-Dibromo-3-Chloropr...	14.723	75	5994	11.520	ug/l	88
93) 1,2,4-Trichlorobenzene	15.388	180	18382	9.497	ug/l	99
94) Hexachlorobutadiene	15.500	225	11293	10.056	ug/l	98
95) Naphthalene	15.635	128	54670	9.754	ug/l	99
96) 1,2,3-Trichlorobenzene	15.841	180	17914	9.753	ug/l	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031825\
Data File : VN085999.D
Acq On : 18 Mar 2025 12:57
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 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025

Quant Time: Mar 19 02:55:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 19 02:30:27 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\VN031825\
Data File : VN085999.D
Acq On : 18 Mar 2025 12:57
Operator : JC\MD
Sample : VSTDIC010
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :

MSVOA_N

Client Sample Id :

VSTDIC010

Manual Integrations

APPROVED

Reviewed By : John Carlone 03/19/2025

Supervised By : Mahesh Dadoda 03/19/2025

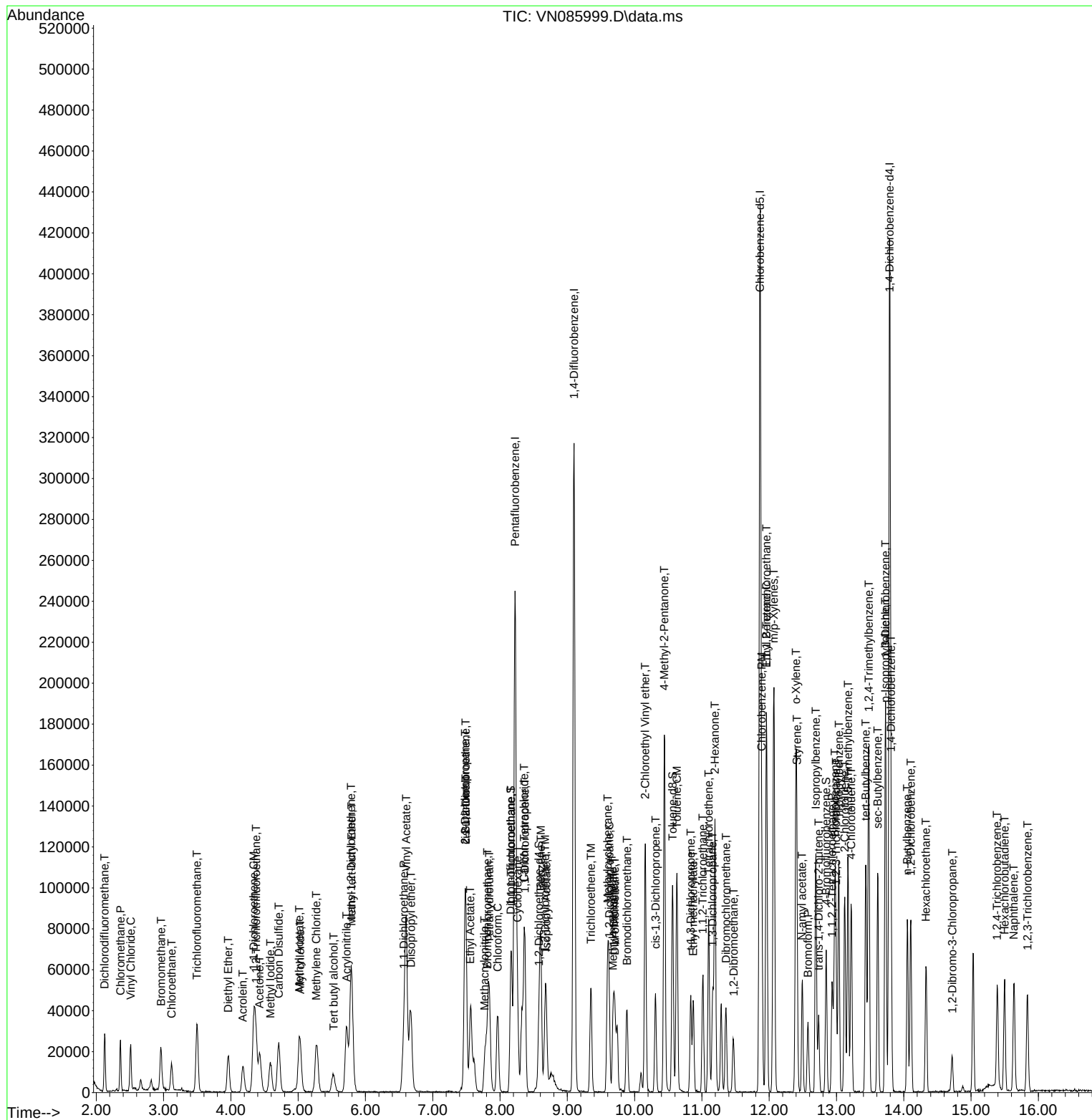
Quant Time: Mar 19 02:55:17 2025

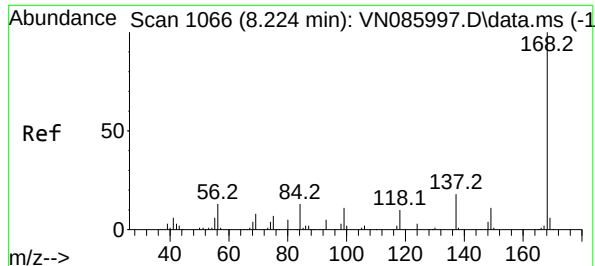
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Quant Title : SW846 8260

QLast Update : Wed Mar 19 02:30:27 2025

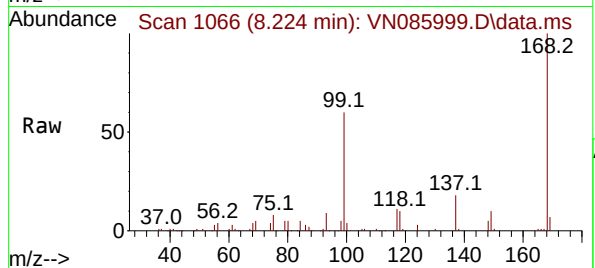
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN085999.D
Acq: 18 Mar 2025 12:57

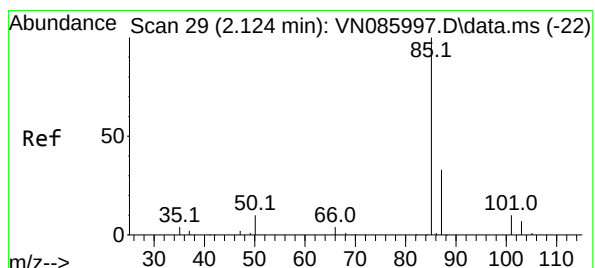
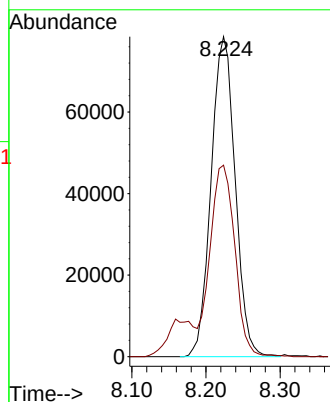
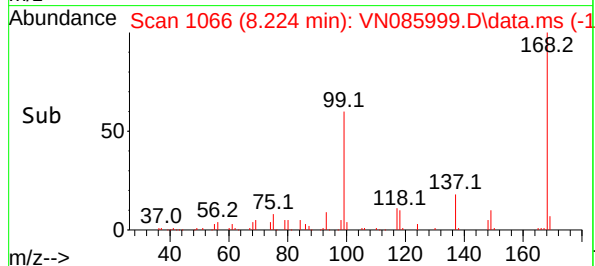
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010



Tgt Ion:168 Resp: 177085
Ion Ratio Lower Upper
168 100
99 59.5 49.4 74.2

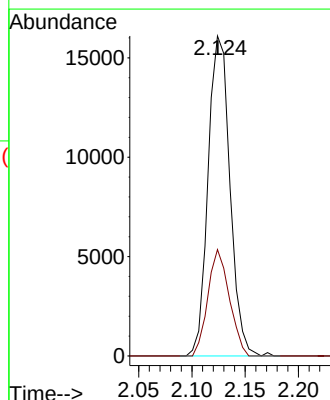
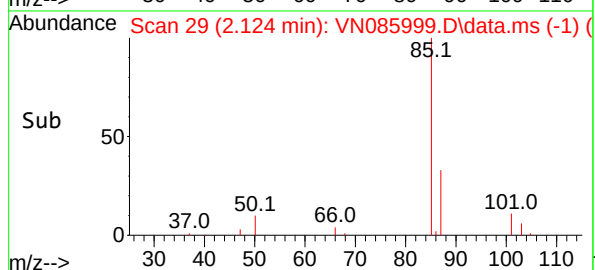
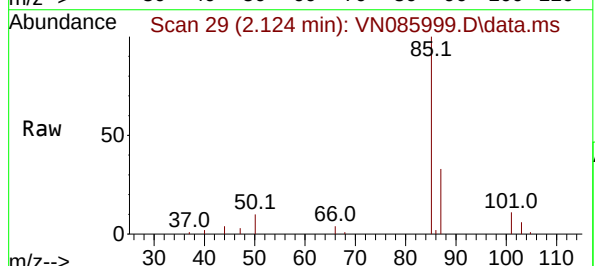
Manual Integrations
APPROVED

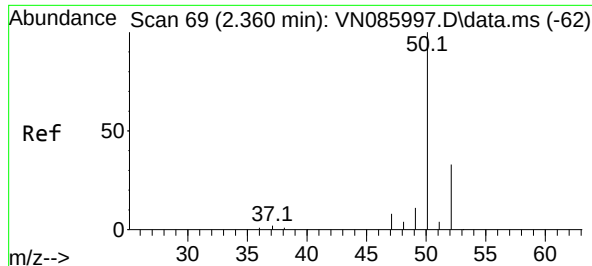
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#2
Dichlorodifluoromethane
Concen: 9.794 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN085999.D
Acq: 18 Mar 2025 12:57

Tgt Ion: 85 Resp: 22978
Ion Ratio Lower Upper
85 100
87 33.2 16.5 49.5





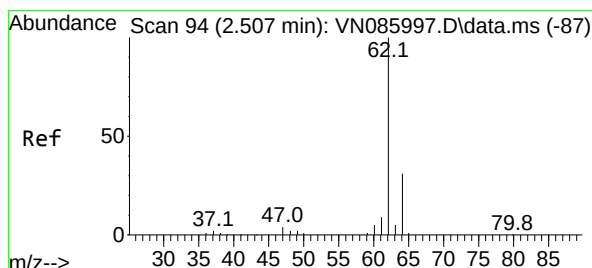
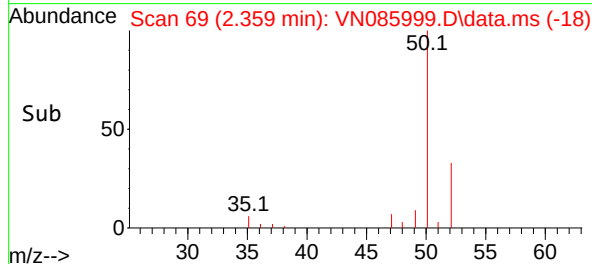
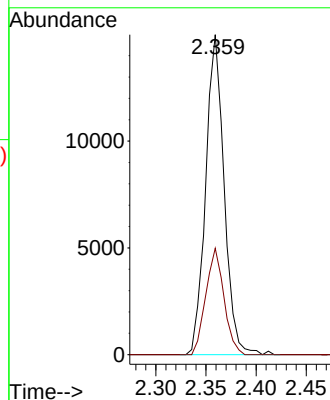
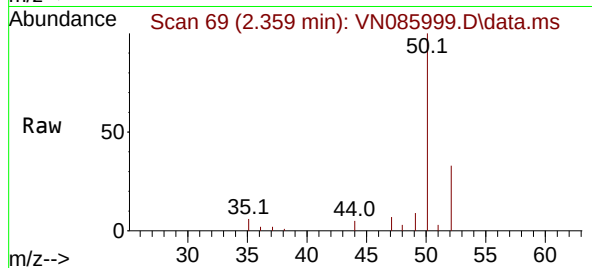
#3
Chloromethane
Concen: 9.364 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN085999.D
Acq: 18 Mar 2025 12:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion: 50 Resp: 19259
Ion Ratio Lower Upper
50 100
52 33.2 26.0 39.0

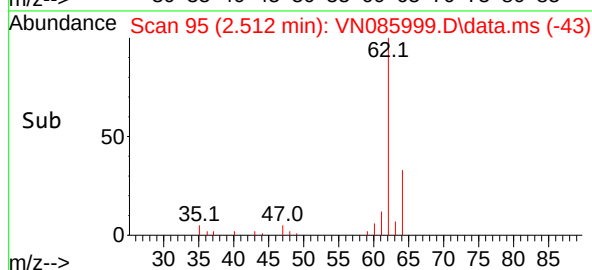
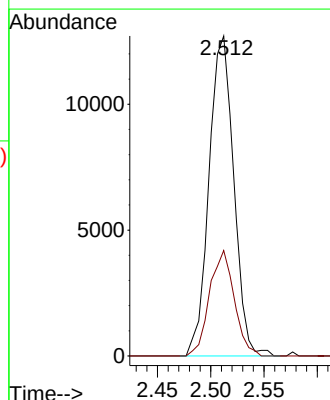
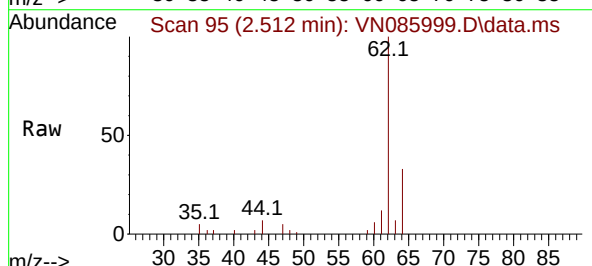
Manual Integrations
APPROVED

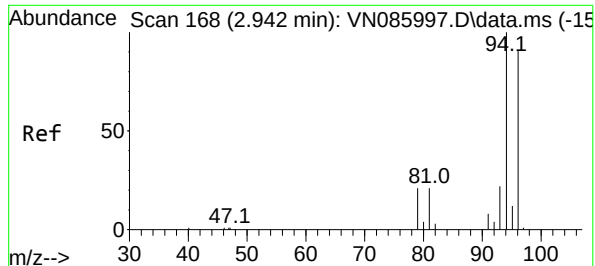
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#4
Vinyl Chloride
Concen: 9.778 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.006 min
Lab File: VN085999.D
Acq: 18 Mar 2025 12:57

Tgt Ion: 62 Resp: 20562
Ion Ratio Lower Upper
62 100
64 32.9 25.2 37.8





#5
Bromomethane

Concen: 10.150 ug/l

RT: 2.965 min Scan# 11

Delta R.T. 0.023 min

Lab File: VN085999.D

Acq: 18 Mar 2025 12:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 94 Resp: 1453

Ion Ratio Lower Upper

94 100

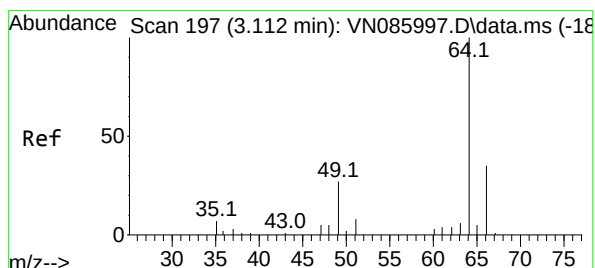
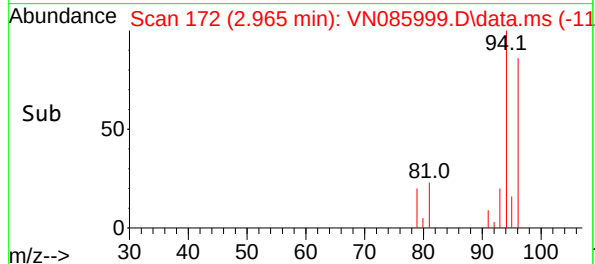
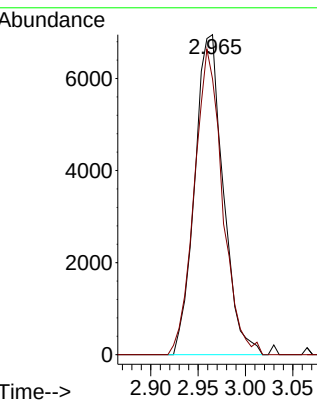
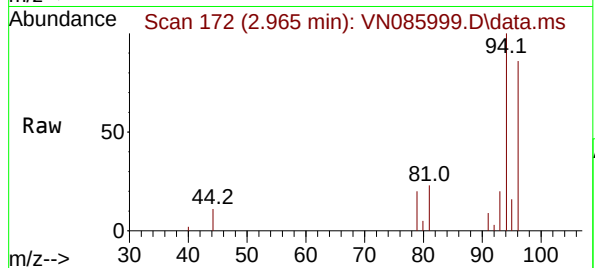
96 86.2 72.8 109.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#6

Chloroethane

Concen: 10.101 ug/l

RT: 3.118 min Scan# 198

Delta R.T. 0.006 min

Lab File: VN085999.D

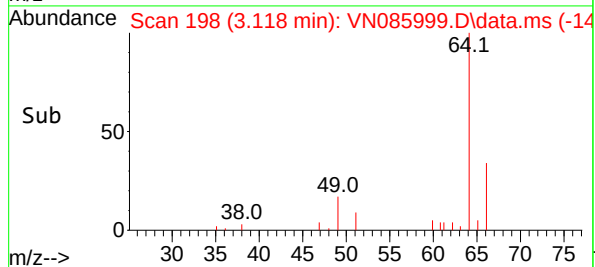
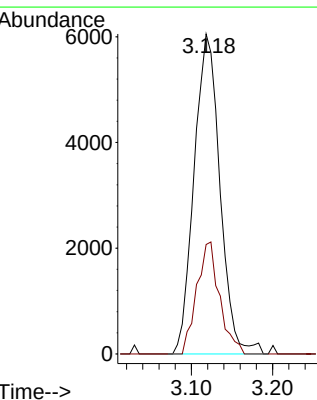
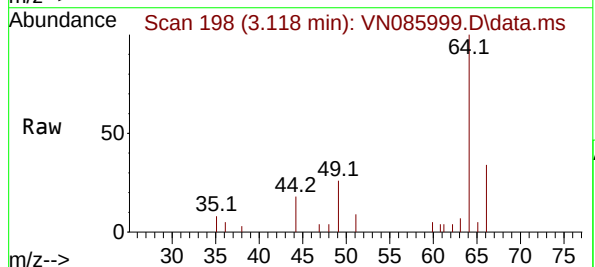
Acq: 18 Mar 2025 12:57

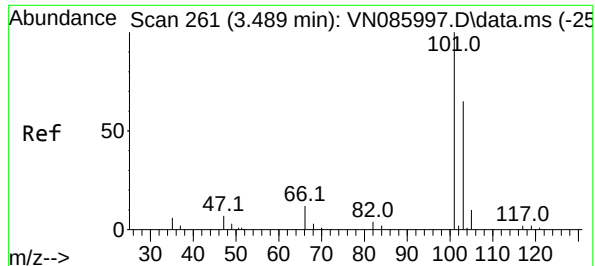
Tgt Ion: 64 Resp: 13400

Ion Ratio Lower Upper

64 100

66 34.2 28.3 42.5





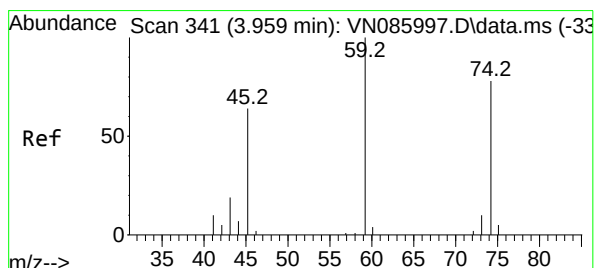
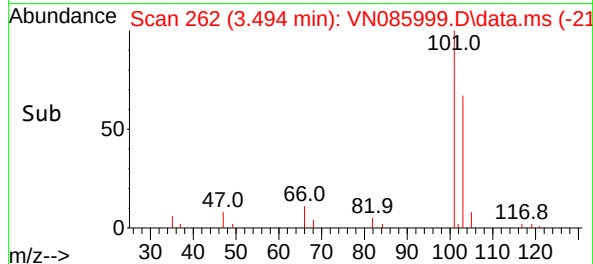
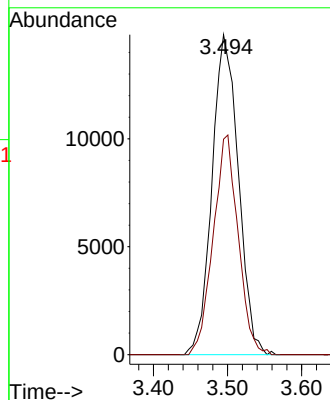
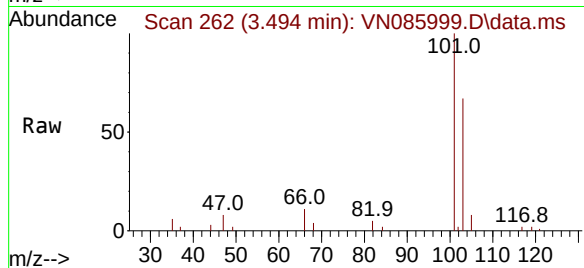
#7
Trichlorofluoromethane
Concen: 9.696 ug/l
RT: 3.494 min Scan# 261
Delta R.T. 0.006 min
Lab File: VN085999.D
Acq: 18 Mar 2025 12:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion:101 Resp: 3665
Ion Ratio Lower Upper
101 100
103 67.4 51.7 77.5

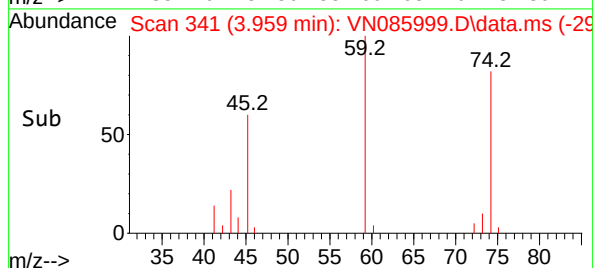
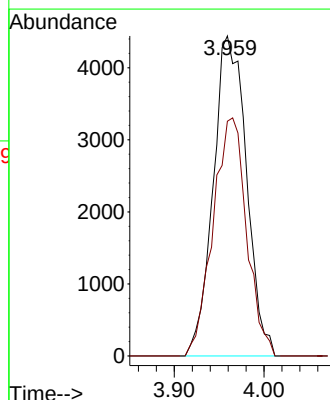
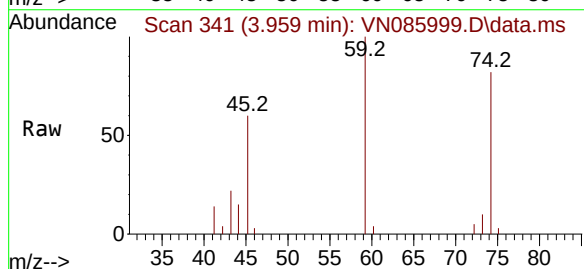
Manual Integrations
APPROVED

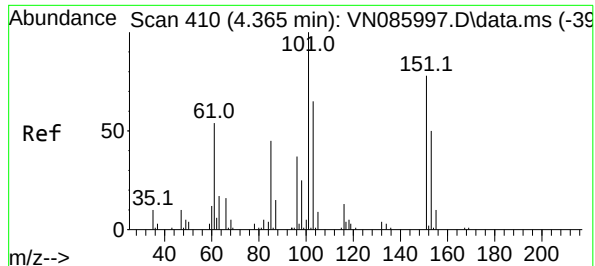
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#8
Diethyl Ether
Concen: 9.861 ug/l
RT: 3.959 min Scan# 341
Delta R.T. -0.000 min
Lab File: VN085999.D
Acq: 18 Mar 2025 12:57

Tgt Ion: 74 Resp: 11412
Ion Ratio Lower Upper
74 100
45 75.3 38.0 113.9





#9

1,1,2-Trichlorotrifluoroethane

Concen: 9.757 ug/l

RT: 4.377 min Scan# 410

Delta R.T. 0.011 min

Lab File: VN085999.D

Acq: 18 Mar 2025 12:57

Instrument :

MSVOA_N

ClientSampleId :

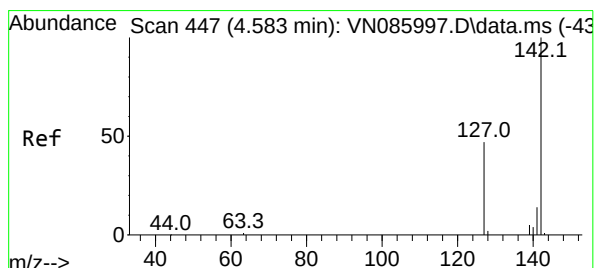
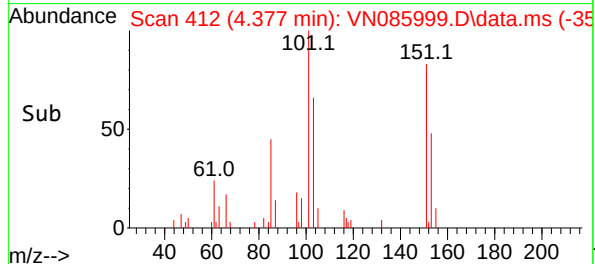
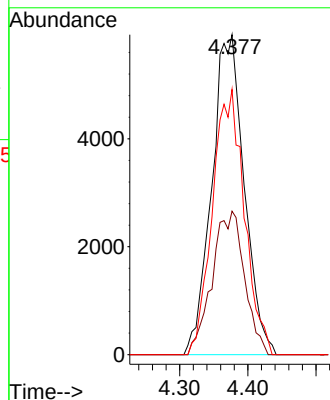
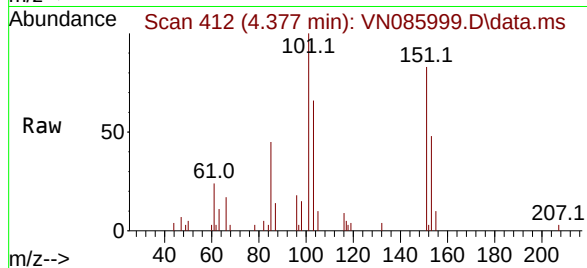
VSTDIC010

Tgt Ion:	101	Resp:	1960
Ion	Ratio	Lower	Upper
101	100		
85	44.8	36.5	54.7
151	81.3	63.4	95.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#10

Methyl Iodide

Concen: 9.606 ug/l

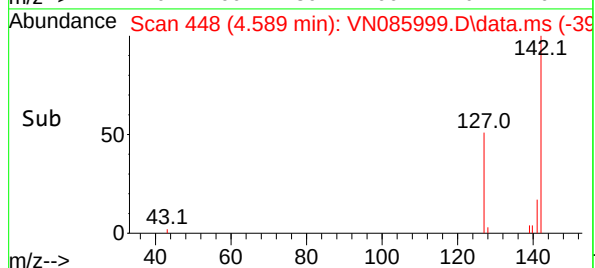
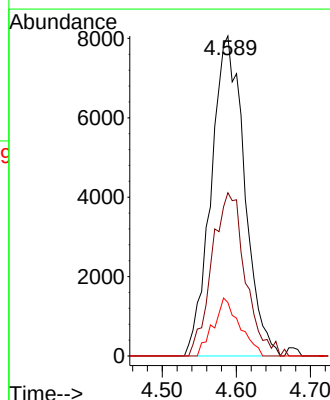
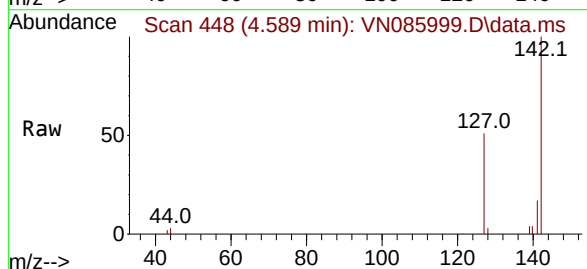
RT: 4.589 min Scan# 448

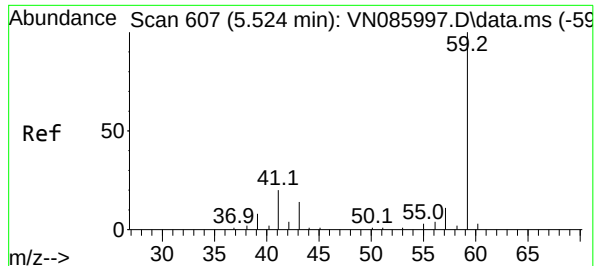
Delta R.T. 0.006 min

Lab File: VN085999.D

Acq: 18 Mar 2025 12:57

Tgt Ion:	142	Resp:	25149
Ion	Ratio	Lower	Upper
142	100		
127	51.0	37.5	56.3
141	16.7	11.0	16.6





#11

Tert butyl alcohol

Concen: 50.023 ug/l

RT: 5.530 min Scan# 607

Delta R.T. 0.006 min

Lab File: VN085999.D

Acq: 18 Mar 2025 12:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 59 Resp: 17174

Ion Ratio Lower Upper

59 100

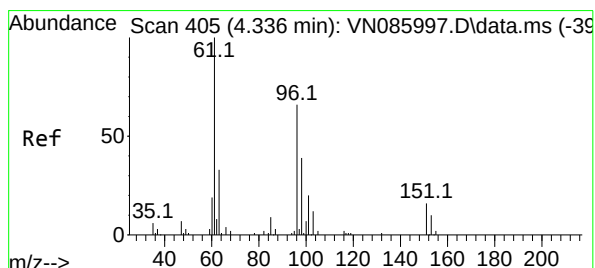
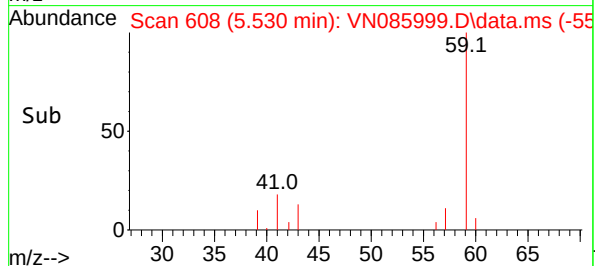
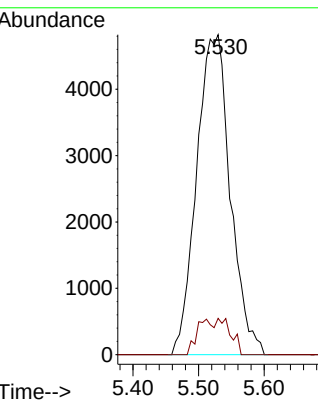
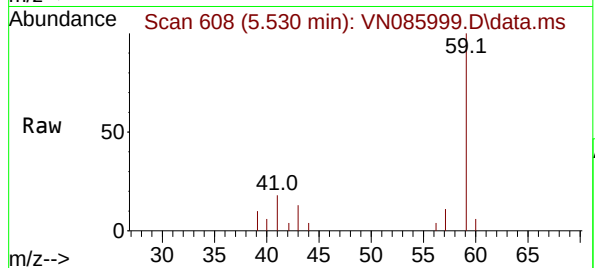
57 5.6 7.9 11.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#12

1,1-Dichloroethene

Concen: 10.638 ug/l

RT: 4.341 min Scan# 406

Delta R.T. 0.006 min

Lab File: VN085999.D

Acq: 18 Mar 2025 12:57

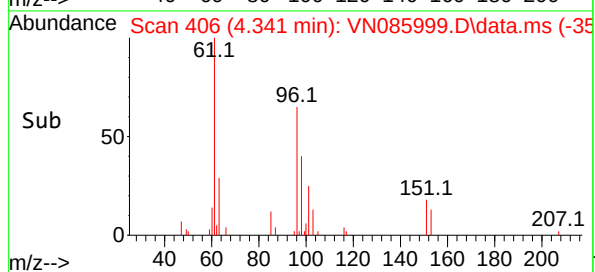
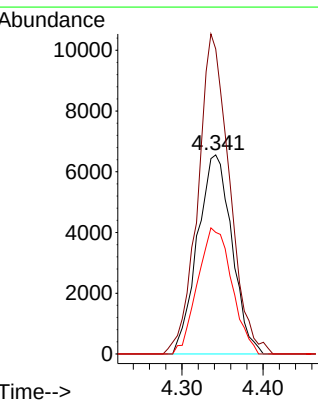
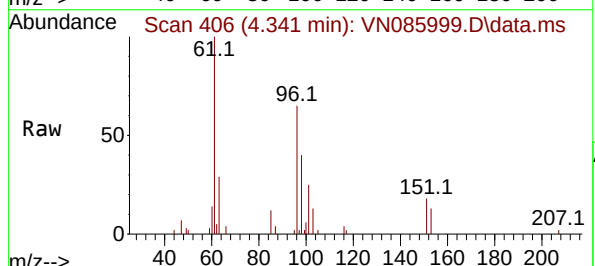
Tgt Ion: 96 Resp: 19300

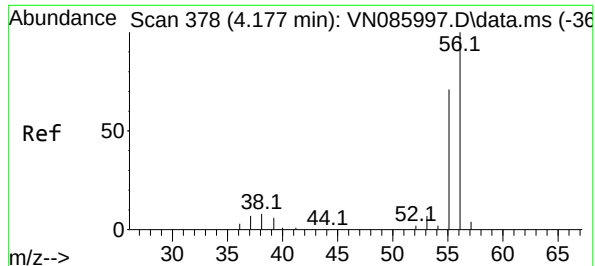
Ion Ratio Lower Upper

96 100

61 150.7 120.5 180.7

98 61.1 47.4 71.0





#13

Acrolein

Concen: 47.889 ug/l

RT: 4.177 min Scan# 31

Delta R.T. -0.000 min

Lab File: VN085999.D

Acq: 18 Mar 2025 12:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 56 Resp: 17530

Ion Ratio Lower Upper

56 100

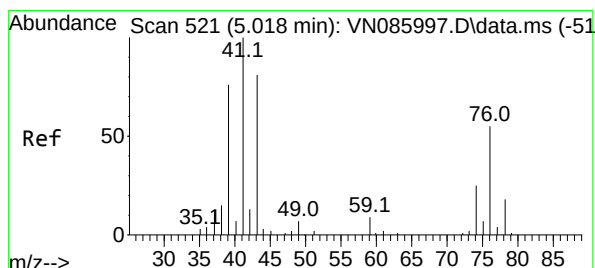
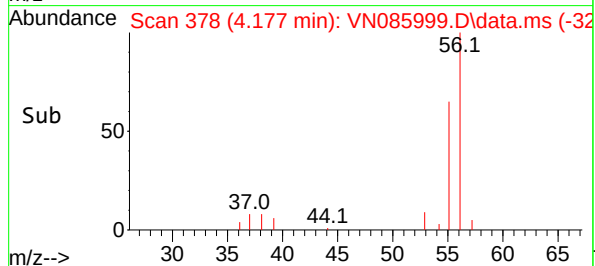
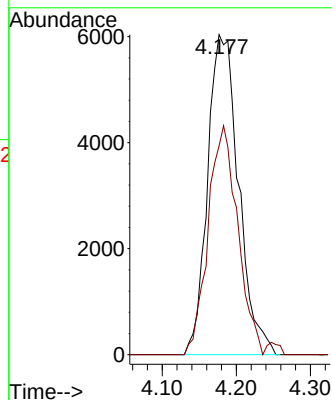
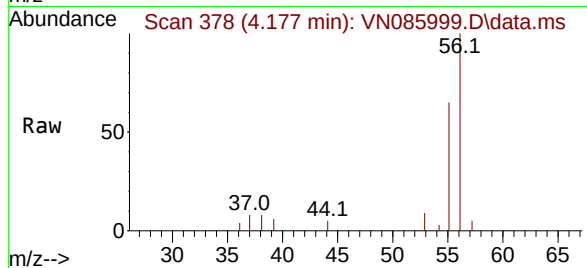
55 68.2 55.1 82.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#14

Allyl chloride

Concen: 9.631 ug/l

RT: 5.030 min Scan# 523

Delta R.T. 0.011 min

Lab File: VN085999.D

Acq: 18 Mar 2025 12:57

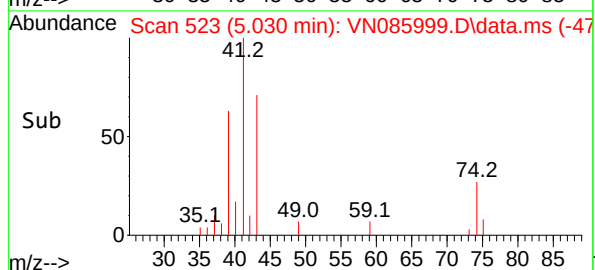
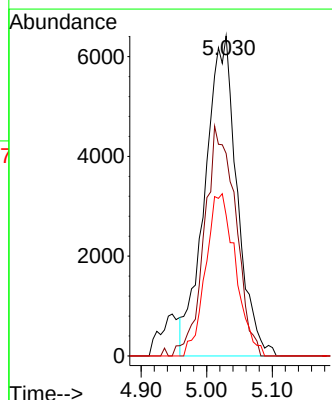
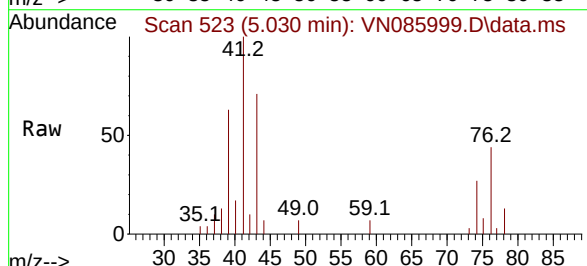
Tgt Ion: 41 Resp: 21799

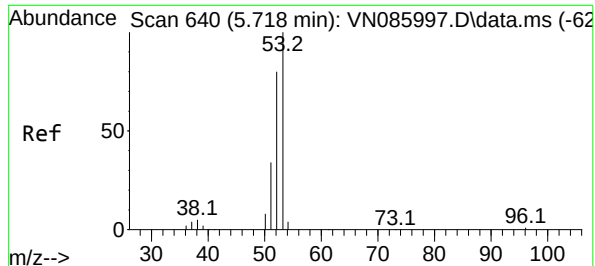
Ion Ratio Lower Upper

41 100

39 69.9 55.5 83.3

76 47.4 39.1 58.7





#15

Acrylonitrile

Concen: 49.706 ug/l

RT: 5.718 min Scan# 640

Delta R.T. -0.000 min

Lab File: VN085999.D

Acq: 18 Mar 2025 12:57

Instrument :

MSVOA_N

ClientSampleId :

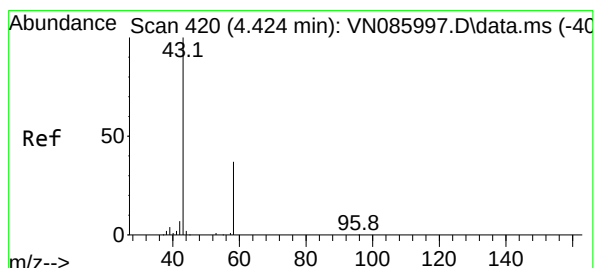
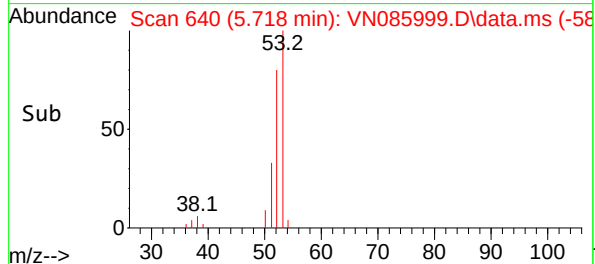
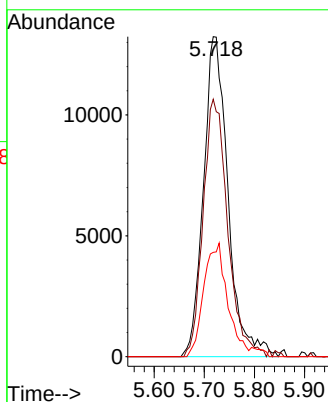
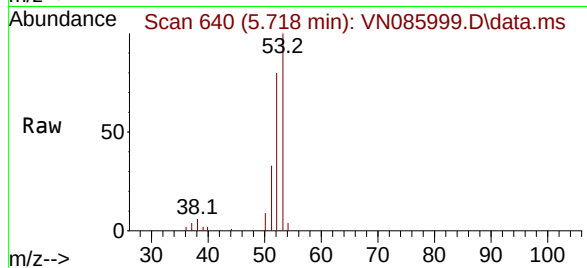
VSTDIC010

Tgt Ion:	53	Resp:	45069
Ion	Ratio	Lower	Upper
53	100		
52	80.4	63.9	95.9
51	34.3	27.1	40.7

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#16

Acetone

Concen: 46.524 ug/l

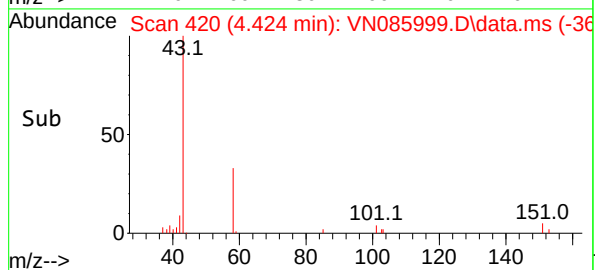
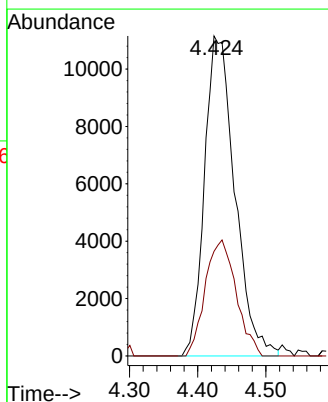
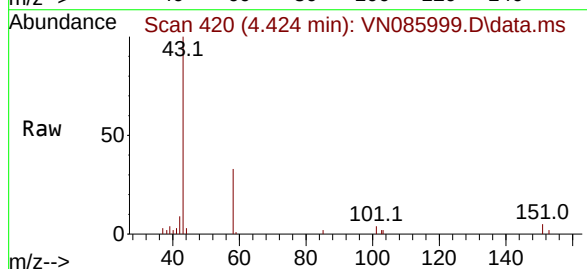
RT: 4.424 min Scan# 420

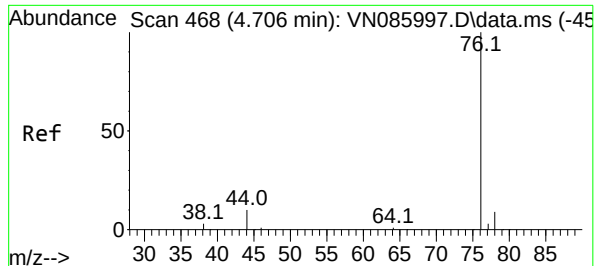
Delta R.T. -0.000 min

Lab File: VN085999.D

Acq: 18 Mar 2025 12:57

Tgt Ion:	43	Resp:	34466
Ion	Ratio	Lower	Upper
43	100		
58	32.7	29.4	44.2





#17

Carbon Disulfide

Concen: 9.555 ug/l

RT: 4.712 min Scan# 4

Delta R.T. 0.006 min

Lab File: VN085999.D

Acq: 18 Mar 2025 12:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 76 Resp: 5701

Ion Ratio Lower Upper

76 100

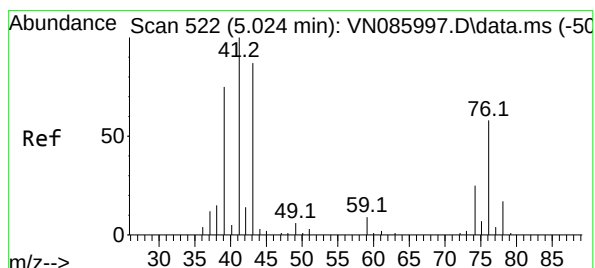
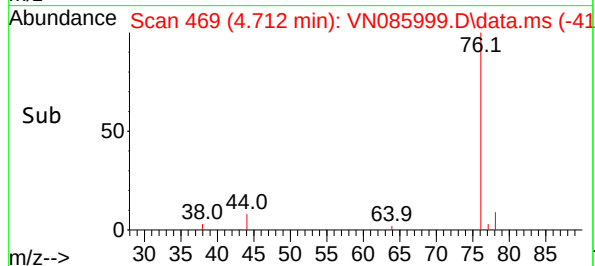
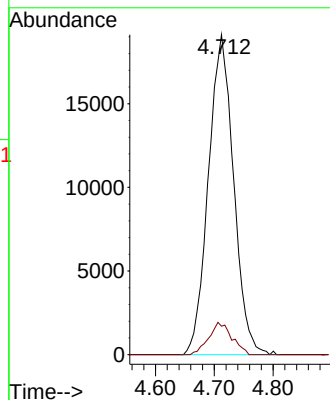
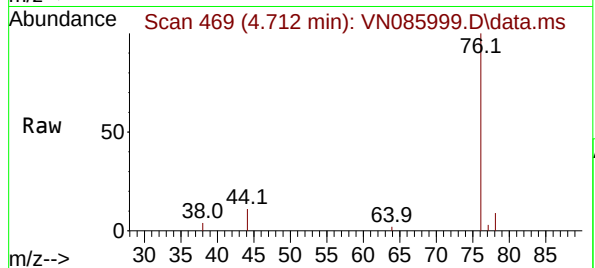
78 8.9 7.4 11.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#18

Methyl Acetate

Concen: 9.741 ug/l

RT: 5.018 min Scan# 521

Delta R.T. -0.006 min

Lab File: VN085999.D

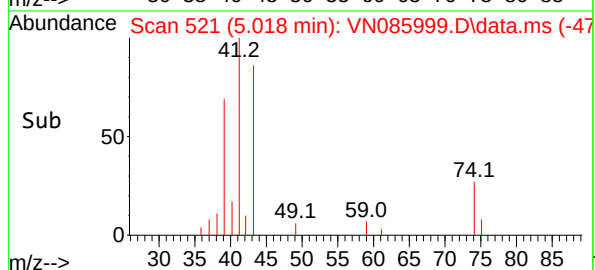
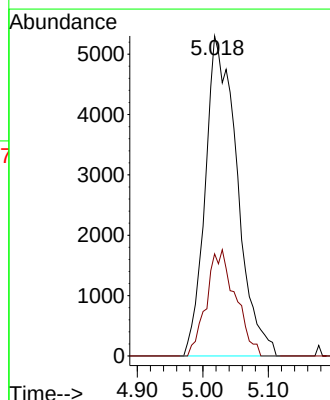
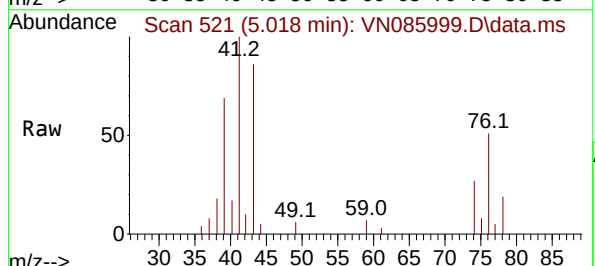
Acq: 18 Mar 2025 12:57

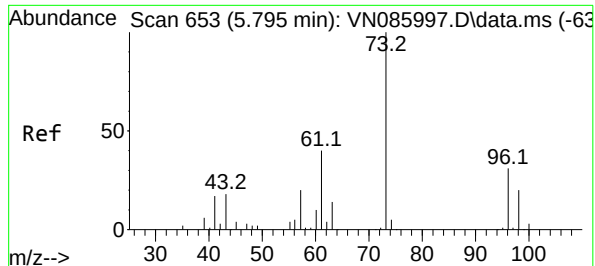
Tgt Ion: 43 Resp: 17854

Ion Ratio Lower Upper

43 100

74 30.3 23.9 35.9





#19

Methyl tert-butyl Ether

Concen: 9.553 ug/l

RT: 5.794 min Scan# 61

Delta R.T. -0.000 min

Lab File: VN085999.D

Acq: 18 Mar 2025 12:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 73 Resp: 5679

Ion Ratio Lower Upper

73 100

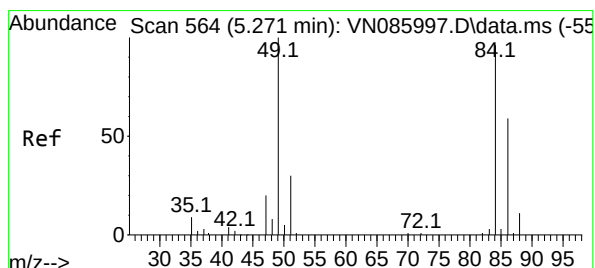
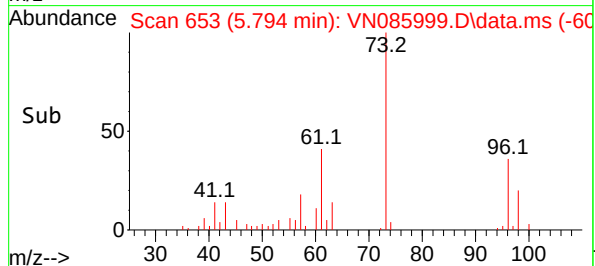
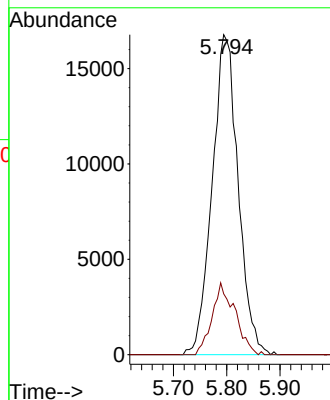
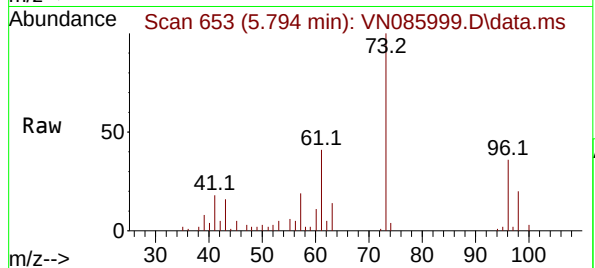
57 19.0 16.1 24.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#20

Methylene Chloride

Concen: 9.349 ug/l

RT: 5.271 min Scan# 564

Delta R.T. -0.000 min

Lab File: VN085999.D

Acq: 18 Mar 2025 12:57

Tgt Ion: 84 Resp: 20262

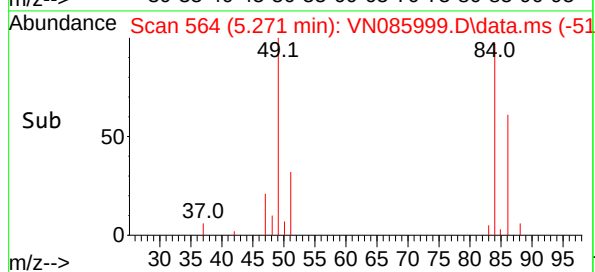
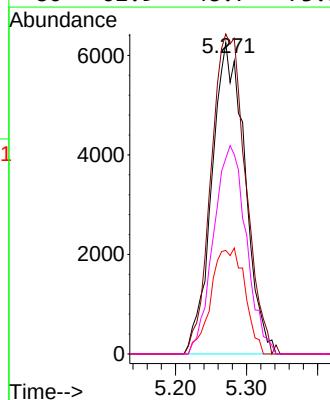
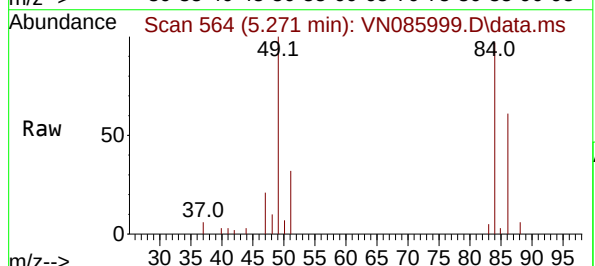
Ion Ratio Lower Upper

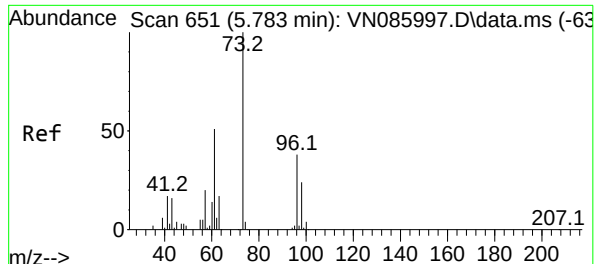
84 100

49 102.8 83.3 124.9

51 33.3 24.8 37.2

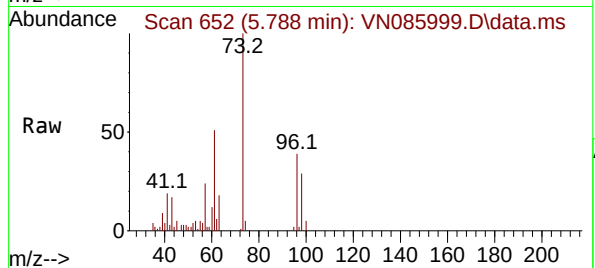
86 62.9 48.7 73.1





#21
trans-1,2-Dichloroethene
Concen: 9.754 ug/l
RT: 5.788 min Scan# 651
Delta R.T. 0.006 min
Lab File: VN085999.D
Acq: 18 Mar 2025 12:57

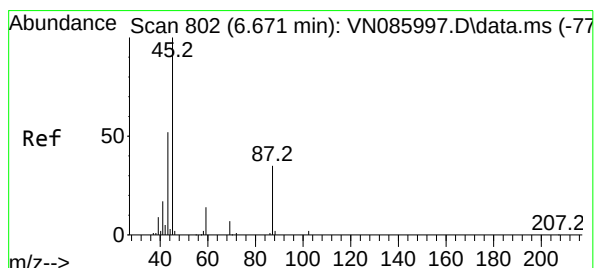
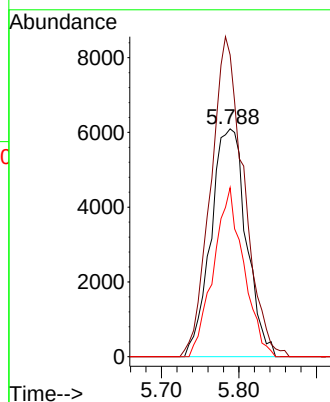
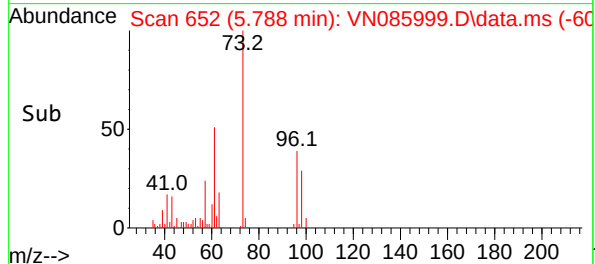
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC010



Tgt Ion: 96 Resp: 19340
Ion Ratio Lower Upper
96 100
61 132.5 106.6 160.0
98 74.1 50.0 75.0

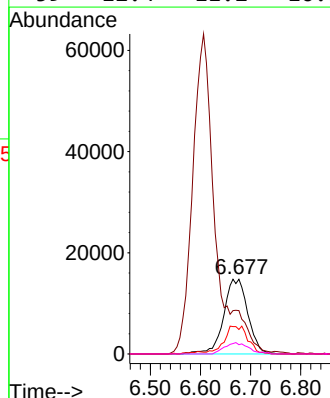
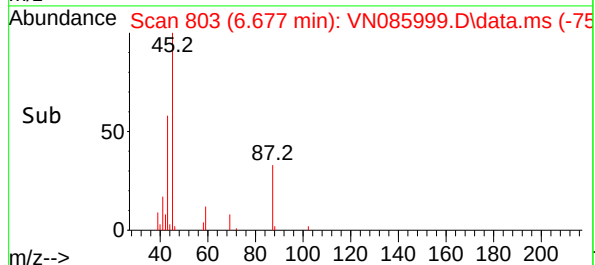
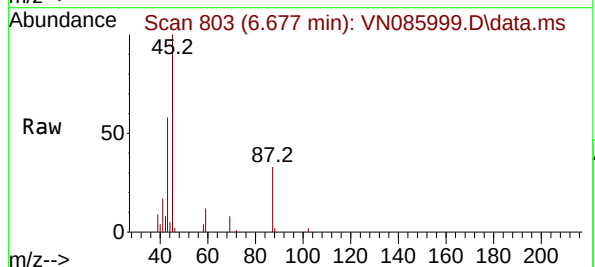
Manual Integrations
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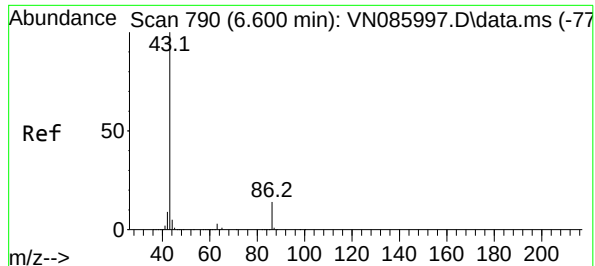
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#22
Diisopropyl ether
Concen: 10.240 ug/l
RT: 6.677 min Scan# 803
Delta R.T. 0.006 min
Lab File: VN085999.D
Acq: 18 Mar 2025 12:57

Tgt Ion: 45 Resp: 49389
Ion Ratio Lower Upper
45 100
43 55.4 41.2 61.8
87 32.8 28.5 42.7
59 12.4 11.2 16.8





#23

Vinyl Acetate

Concen: 49.277 ug/l

RT: 6.606 min Scan# 790

Delta R.T. 0.006 min

Lab File: VN085999.D

Acq: 18 Mar 2025 12:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 43 Resp: 18018

Ion Ratio Lower Upper

43 100

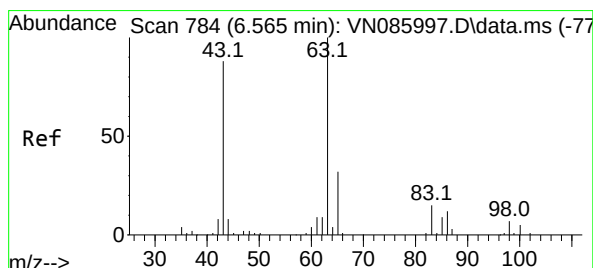
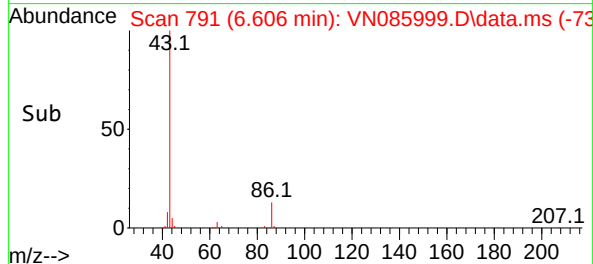
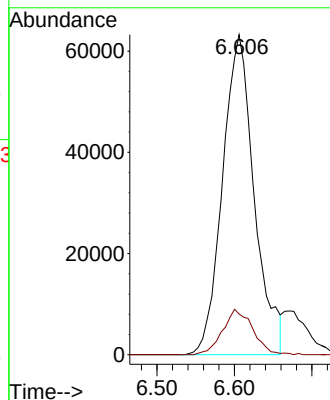
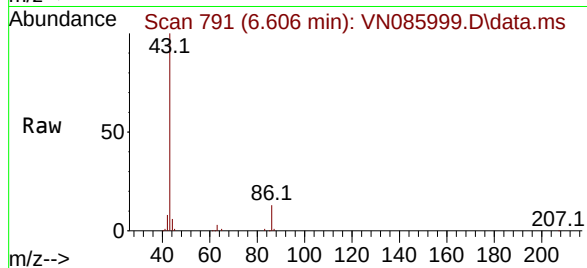
86 12.7 11.2 16.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#24

1,1-Dichloroethane

Concen: 9.669 ug/l

RT: 6.571 min Scan# 785

Delta R.T. 0.006 min

Lab File: VN085999.D

Acq: 18 Mar 2025 12:57

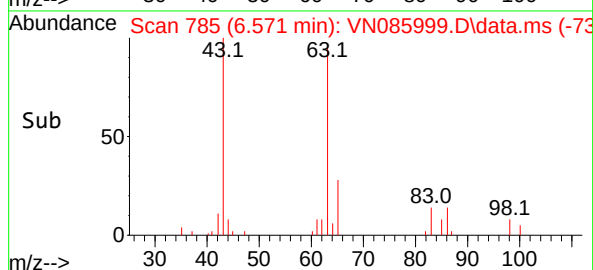
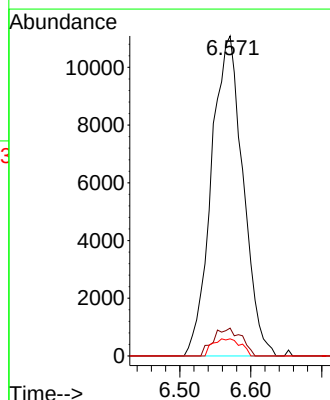
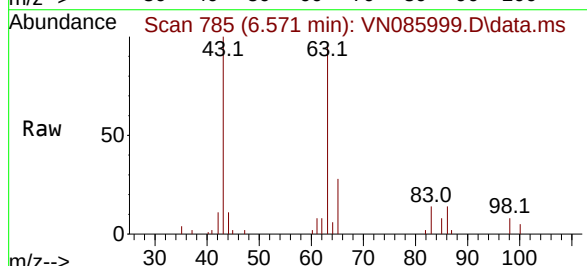
Tgt Ion: 63 Resp: 34294

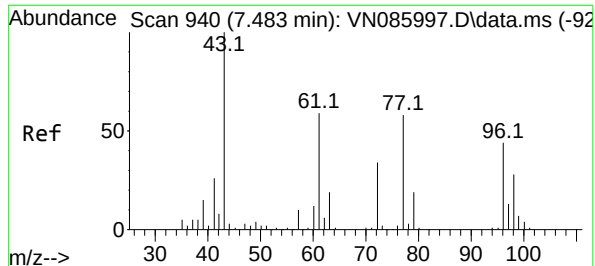
Ion Ratio Lower Upper

63 100

98 8.7 3.6 10.9

100 5.4 2.5 7.5





#25

2-Butanone

Concen: 49.267 ug/l

RT: 7.488 min Scan# 941

Delta R.T. 0.006 min

Lab File: VN085999.D

Acq: 18 Mar 2025 12:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 43 Resp: 5266

Ion Ratio Lower Upper

43 100

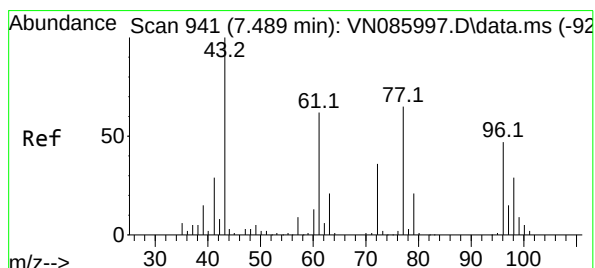
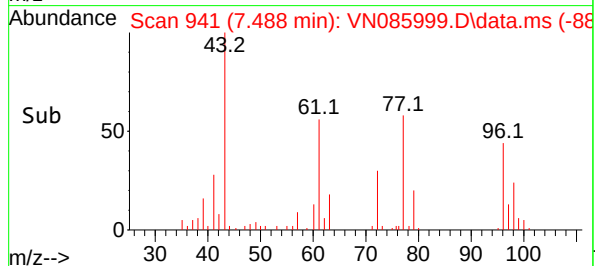
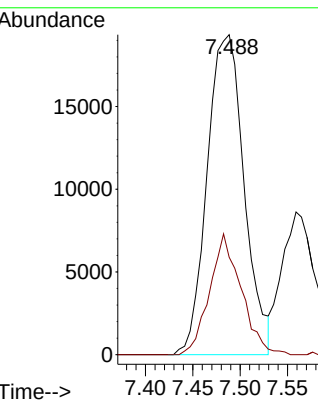
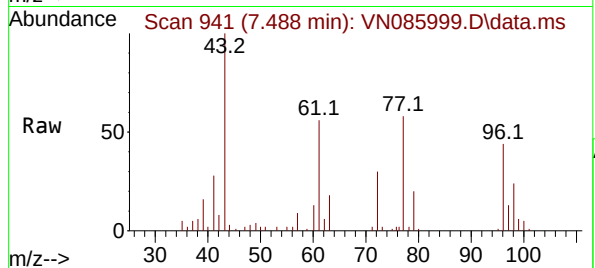
72 30.4 27.4 41.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#26

2,2-Dichloropropane

Concen: 9.598 ug/l

RT: 7.482 min Scan# 940

Delta R.T. -0.006 min

Lab File: VN085999.D

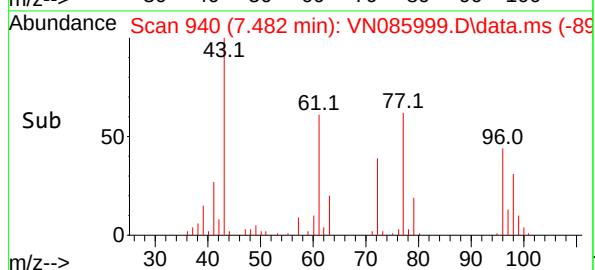
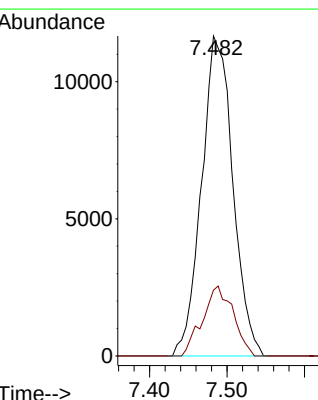
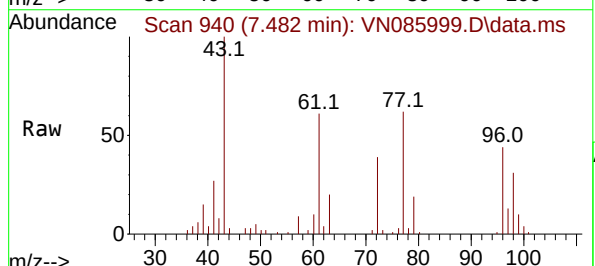
Acq: 18 Mar 2025 12:57

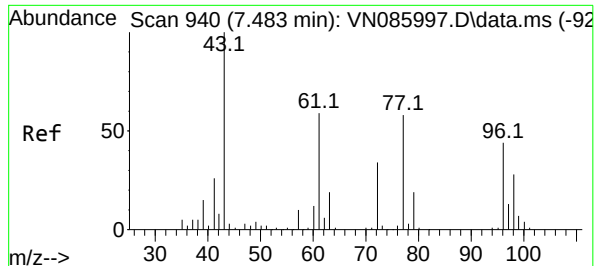
Tgt Ion: 77 Resp: 32775

Ion Ratio Lower Upper

77 100

97 21.4 11.2 33.5





#27

cis-1,2-Dichloroethene

Concen: 9.695 ug/l

RT: 7.488 min Scan# 941

Delta R.T. 0.006 min

Lab File: VN085999.D

Acq: 18 Mar 2025 12:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 96 Resp: 2184

Ion Ratio Lower Upper

96 100

61 139.2 0.0 272.8

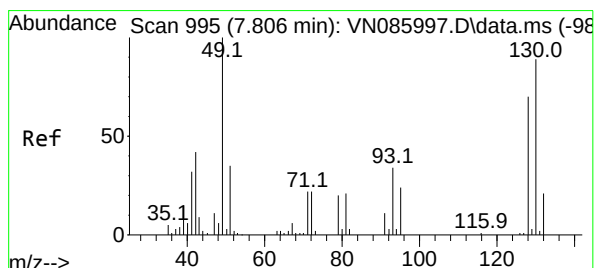
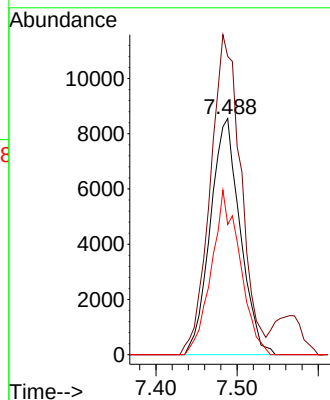
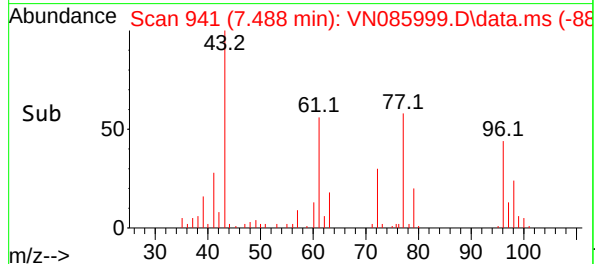
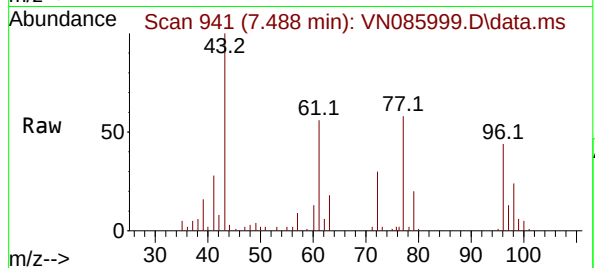
98 66.7 0.0 124.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#28

Bromochloromethane

Concen: 9.512 ug/l

RT: 7.812 min Scan# 996

Delta R.T. 0.006 min

Lab File: VN085999.D

Acq: 18 Mar 2025 12:57

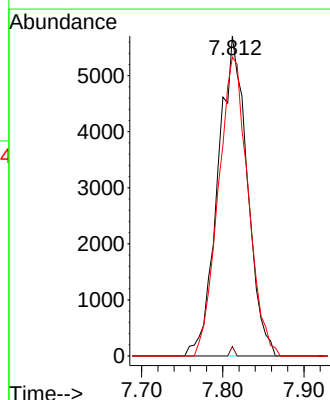
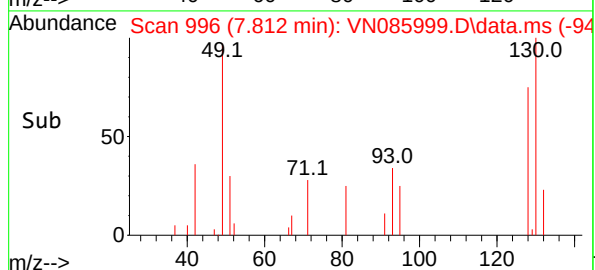
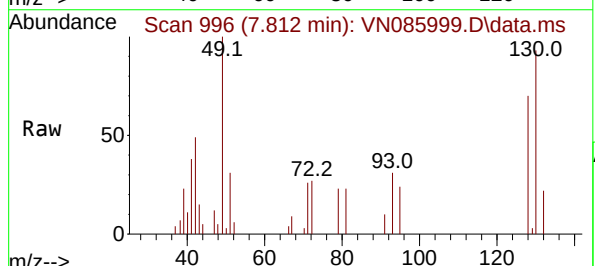
Tgt Ion: 49 Resp: 14293

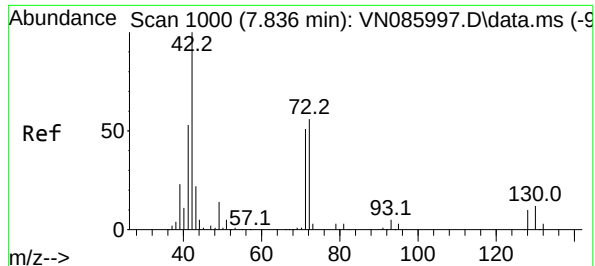
Ion Ratio Lower Upper

49 100

129 0.4 0.0 4.2

130 94.8 74.2 111.4





#29

Tetrahydrofuran

Concen: 50.716 ug/l

RT: 7.841 min Scan# 1000

Delta R.T. 0.006 min

Lab File: VN085999.D

Acq: 18 Mar 2025 12:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

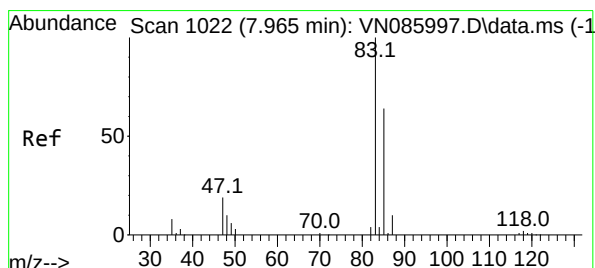
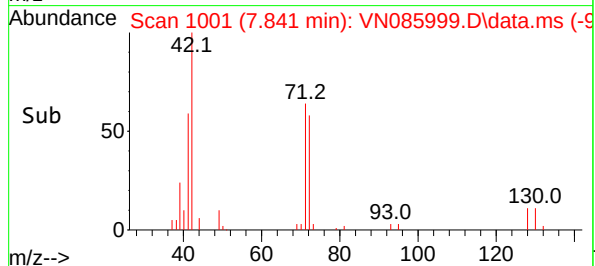
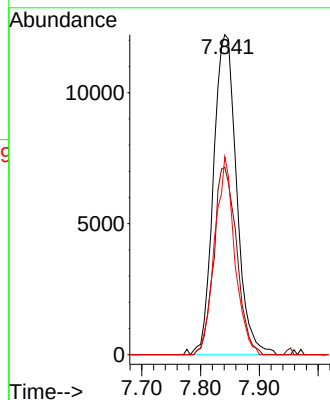
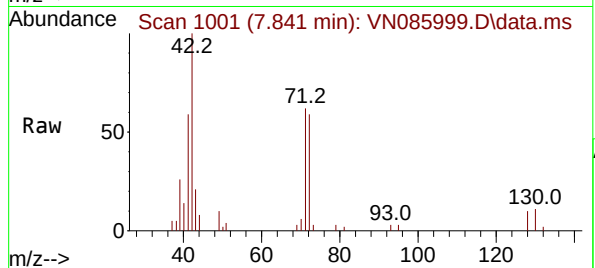
Tgt Ion:	42	Resp:	33470
Ion	Ratio	Lower	Upper
42	100		
72	57.6	45.0	67.4
71	53.6	41.9	62.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#30

Chloroform

Concen: 9.948 ug/l

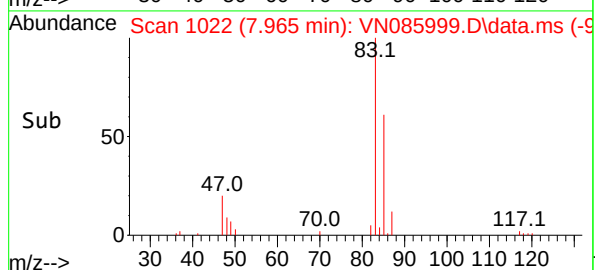
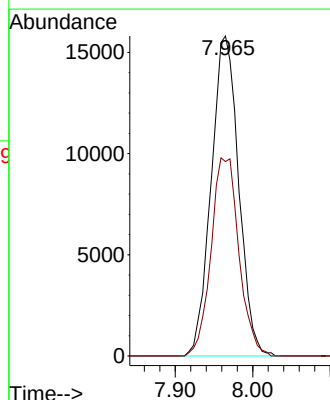
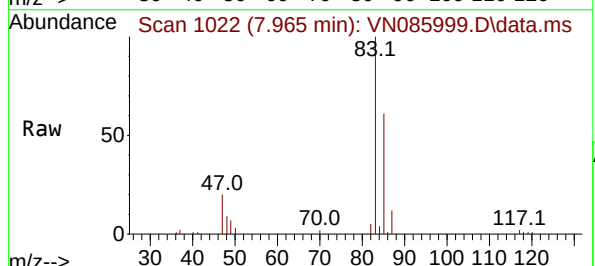
RT: 7.965 min Scan# 1022

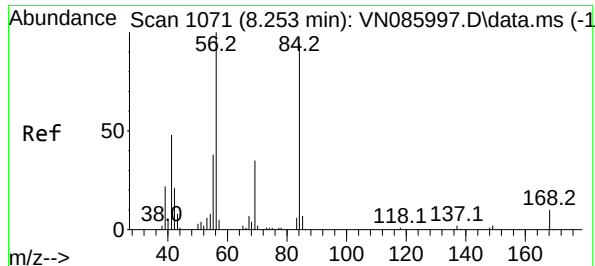
Delta R.T. -0.000 min

Lab File: VN085999.D

Acq: 18 Mar 2025 12:57

Tgt Ion:	83	Resp:	38998
Ion	Ratio	Lower	Upper
83	100		
85	60.8	51.5	77.3





#31

Cyclohexane

Concen: 10.006 ug/l

RT: 8.259 min Scan# 1072

Delta R.T. 0.006 min

Lab File: VN085999.D

Acq: 18 Mar 2025 12:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

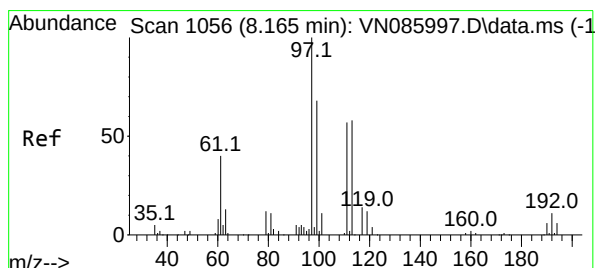
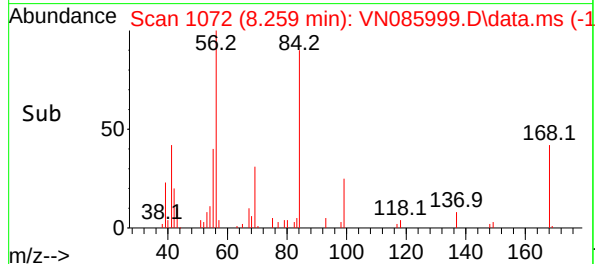
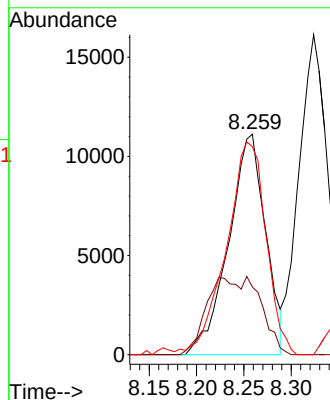
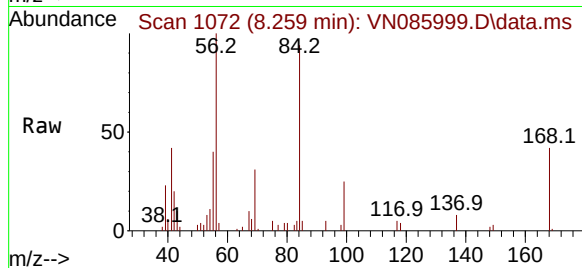
Tgt Ion:	56	Resp:	30234
Ion Ratio	Lower	Upper	
56	100		
69	30.7	28.0	42.0
84	91.8	75.0	112.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#32

1,1,1-Trichloroethane

Concen: 9.784 ug/l

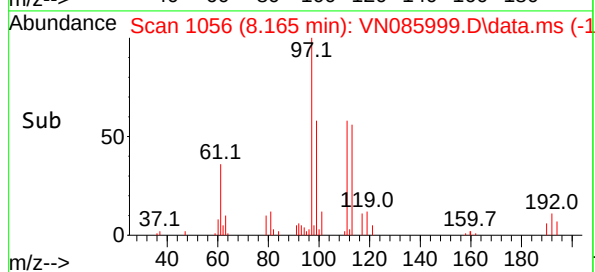
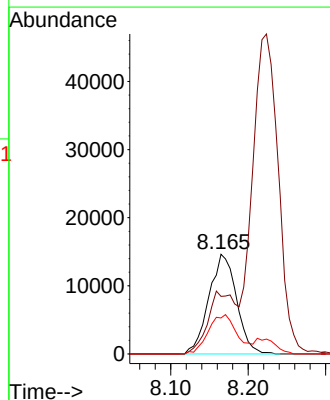
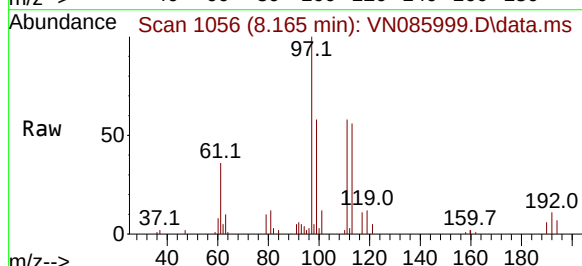
RT: 8.165 min Scan# 1056

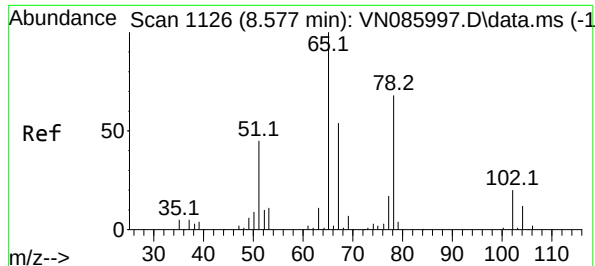
Delta R.T. -0.000 min

Lab File: VN085999.D

Acq: 18 Mar 2025 12:57

Tgt Ion:	97	Resp:	36307
Ion Ratio	Lower	Upper	
97	100		
99	64.2	52.8	79.2
61	41.6	33.6	50.4





#33

1,2-Dichloroethane-d4

Concen: 10.524 ug/l

RT: 8.576 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN085999.D

Acq: 18 Mar 2025 12:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 65 Resp: 25519

Ion Ratio Lower Upper

65 100

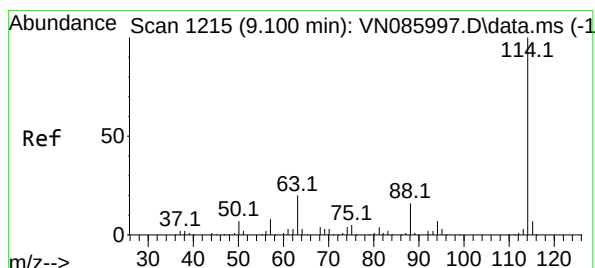
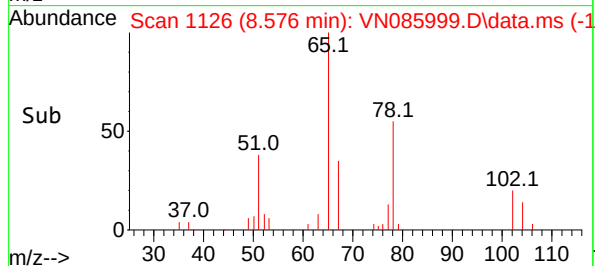
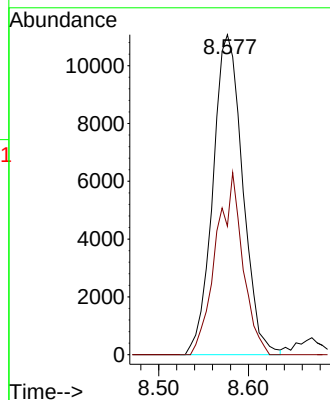
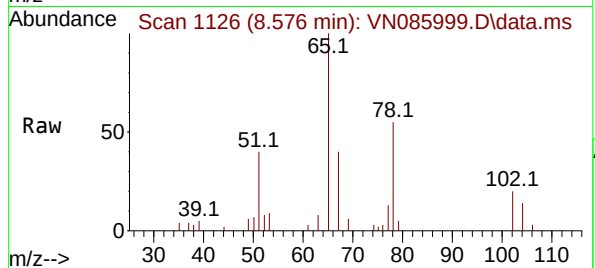
67 51.0 0.0 102.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN085999.D

Acq: 18 Mar 2025 12:57

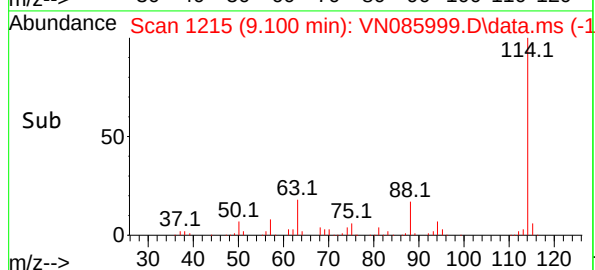
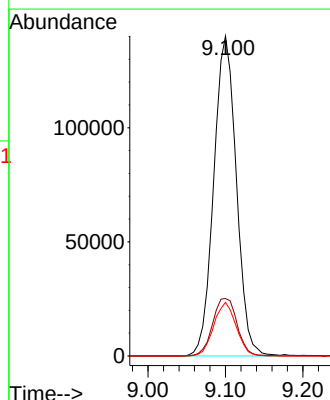
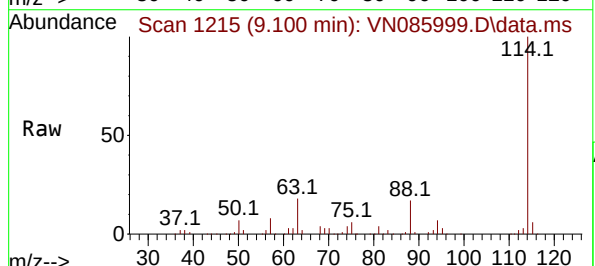
Tgt Ion:114 Resp: 284484

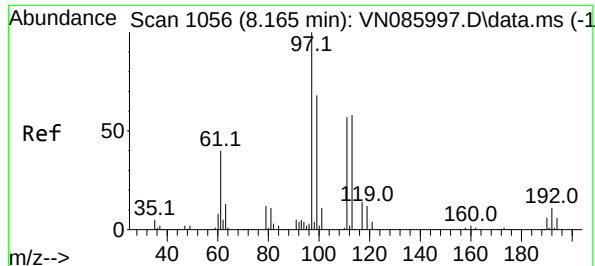
Ion Ratio Lower Upper

114 100

63 18.0 0.0 39.6

88 16.7 0.0 32.6





#35

Dibromofluoromethane

Concen: 10.374 ug/l

RT: 8.159 min Scan# 1055

Delta R.T. -0.006 min

Lab File: VN085999.D

Acq: 18 Mar 2025 12:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

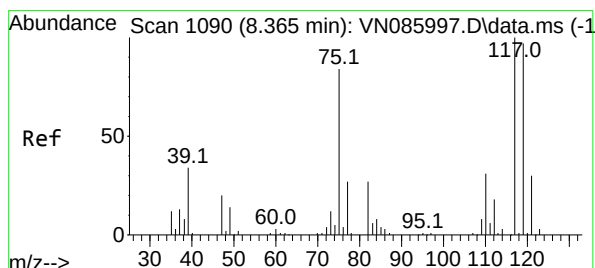
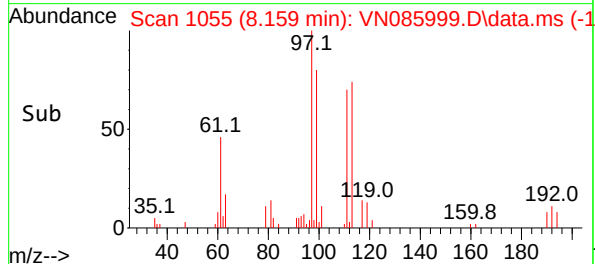
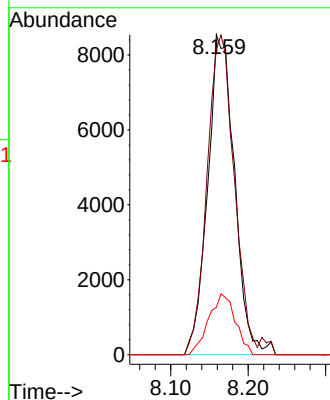
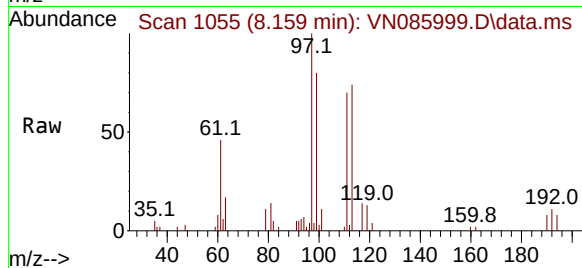
Tgt Ion:	113	Resp:	20600
Ion	Ratio	Lower	Upper
113	100		
111	100.7	81.8	122.8
192	18.8	15.9	23.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#36

1,1-Dichloropropene

Concen: 9.644 ug/l

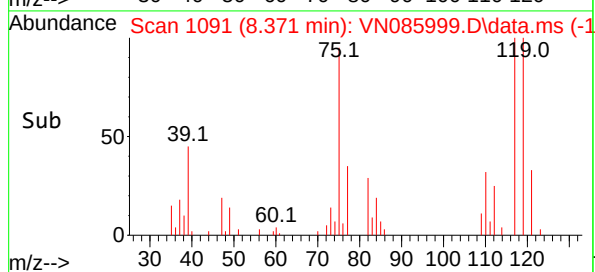
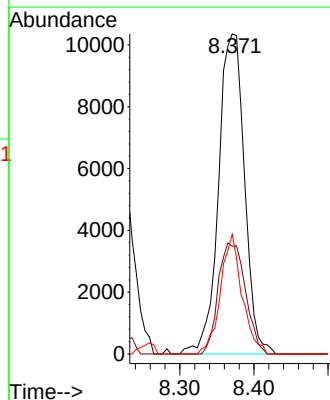
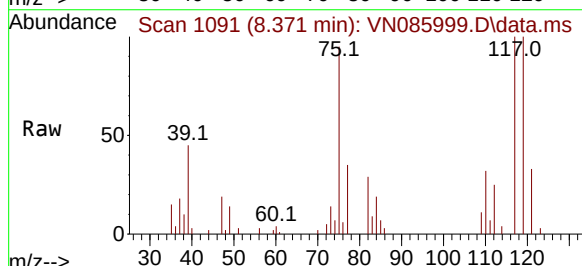
RT: 8.371 min Scan# 1091

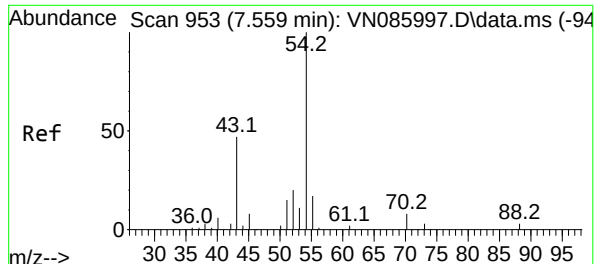
Delta R.T. 0.006 min

Lab File: VN085999.D

Acq: 18 Mar 2025 12:57

Tgt Ion:	75	Resp:	25215
Ion	Ratio	Lower	Upper
75	100		
110	36.2	17.8	53.3
77	31.1	25.0	37.4





#37

Ethyl Acetate

Concen: 10.134 ug/l

RT: 7.559 min Scan# 91

Delta R.T. -0.000 min

Lab File: VN085999.D

Acq: 18 Mar 2025 12:57

Instrument :

MSVOA_N

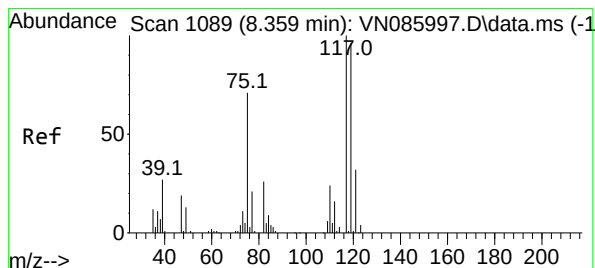
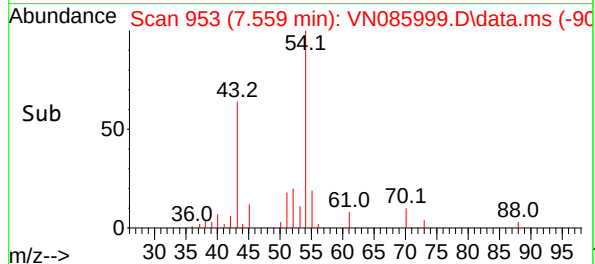
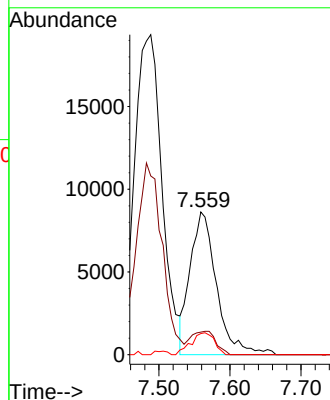
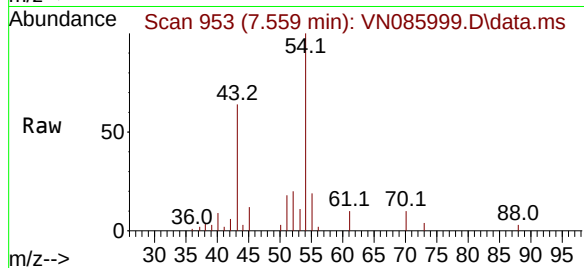
ClientSampleId :

VSTDIC010

Tgt Ion:	43	Resp:	2235
Ion	Ratio	Lower	Upper
43	100		
61	15.5	13.0	19.4
70	13.6	11.0	16.6

Manual Integrations
APPROVED

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



#38

Carbon Tetrachloride

Concen: 9.601 ug/l

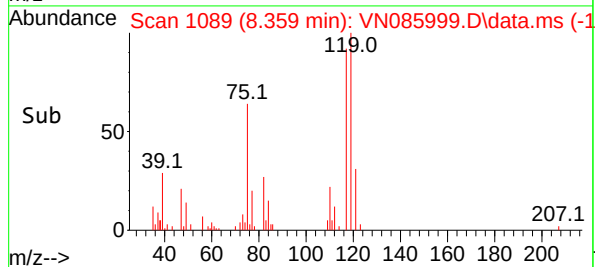
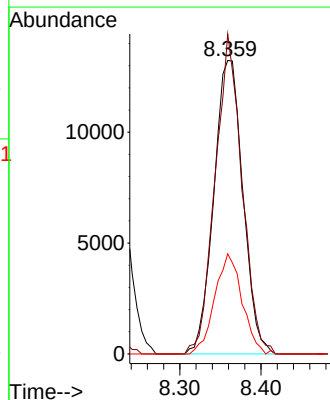
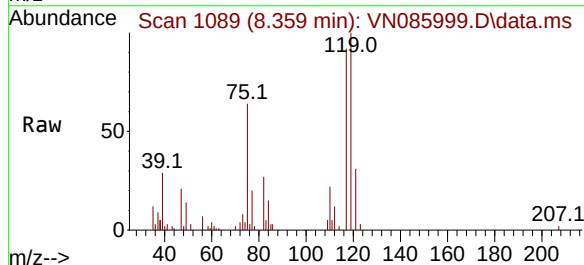
RT: 8.359 min Scan# 1089

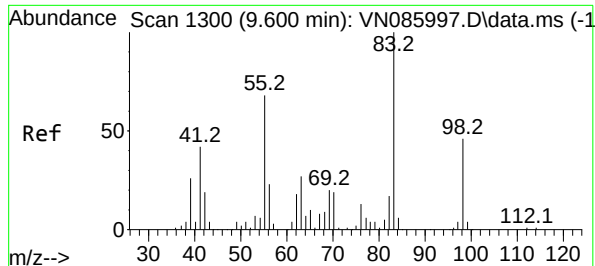
Delta R.T. -0.000 min

Lab File: VN085999.D

Acq: 18 Mar 2025 12:57

Tgt Ion:	117	Resp:	33005
Ion	Ratio	Lower	Upper
117	100		
119	109.1	77.0	115.4
121	34.2	25.6	38.4





#39

Methylcyclohexane

Concen: 8.745 ug/l

RT: 9.600 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN085999.D

Acq: 18 Mar 2025 12:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 83 Resp: 2268

Ion Ratio Lower Upper

83 100

55 78.8 54.2 81.2

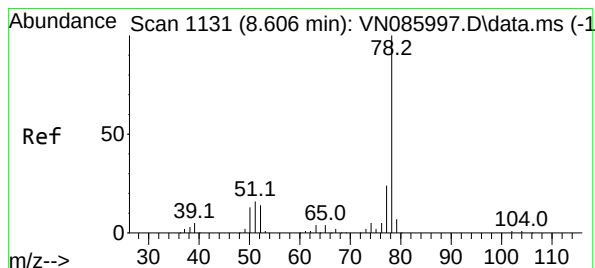
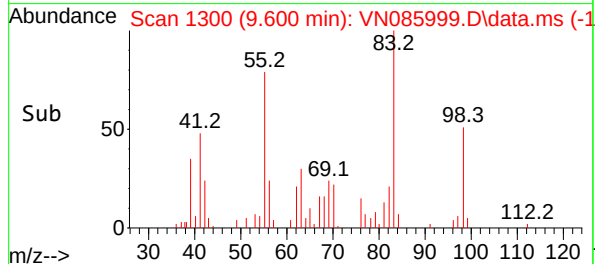
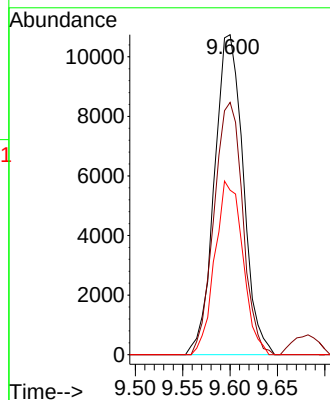
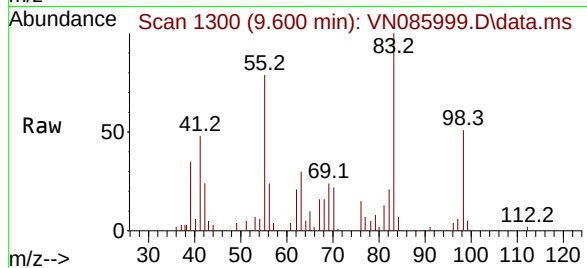
98 51.4 37.1 55.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#40

Benzene

Concen: 9.606 ug/l

RT: 8.606 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VN085999.D

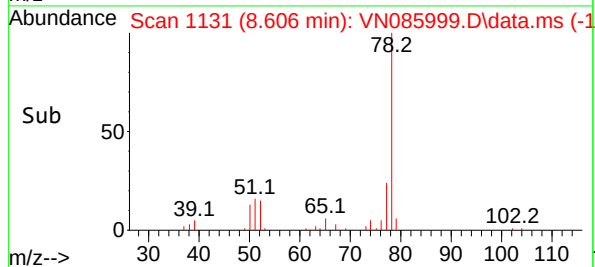
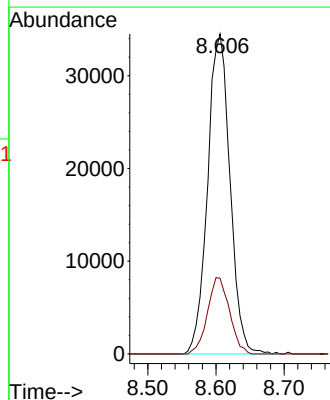
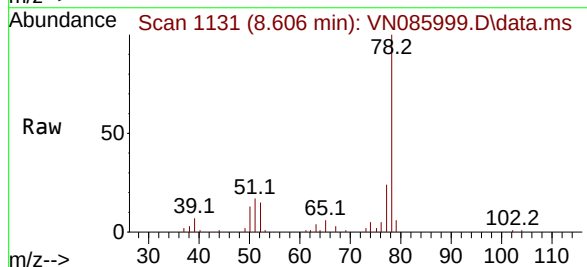
Acq: 18 Mar 2025 12:57

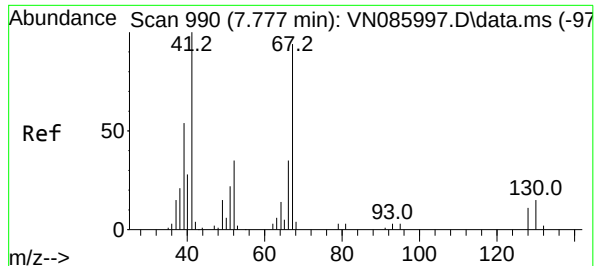
Tgt Ion: 78 Resp: 78849

Ion Ratio Lower Upper

78 100

77 23.6 18.9 28.3





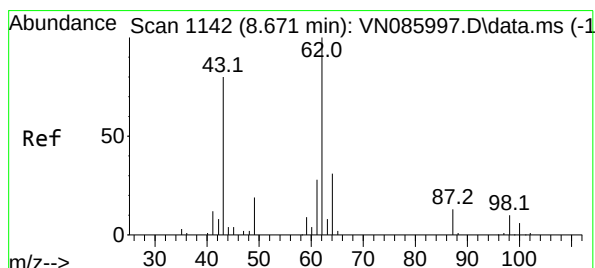
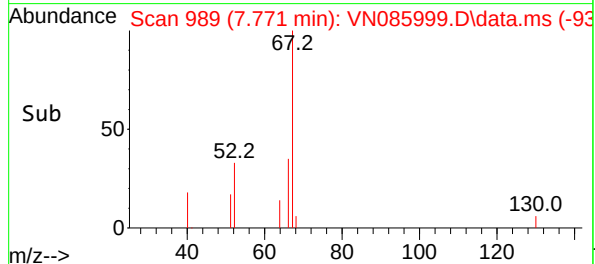
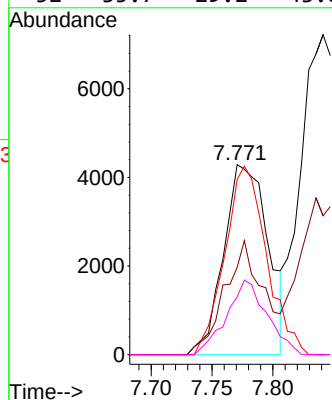
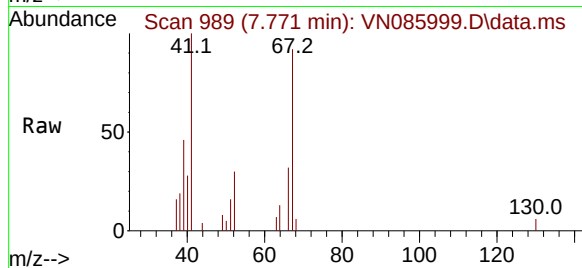
#41
Methacrylonitrile
Concen: 10.306 ug/l
RT: 7.771 min Scan# 911
Delta R.T. -0.006 min
Lab File: VN085999.D
Acq: 18 Mar 2025 12:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion: 41 Resp: 1085
Ion Ratio Lower Upper
41 100
39 52.5 46.2 69.2
67 93.3 75.9 113.9
52 35.7 29.2 43.8

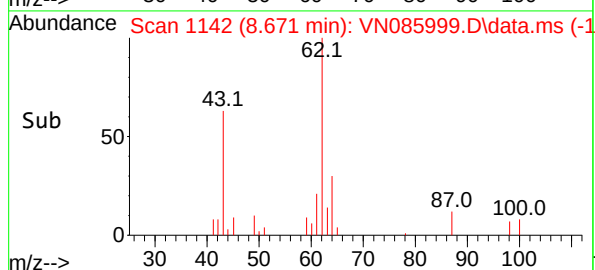
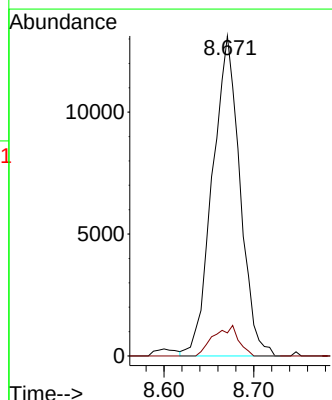
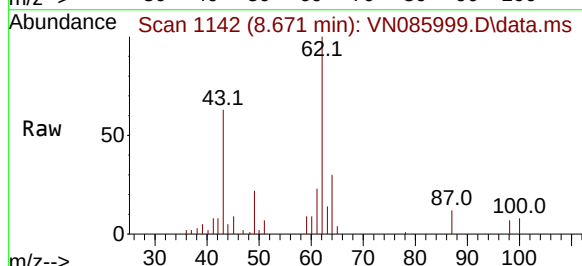
Manual Integrations
APPROVED

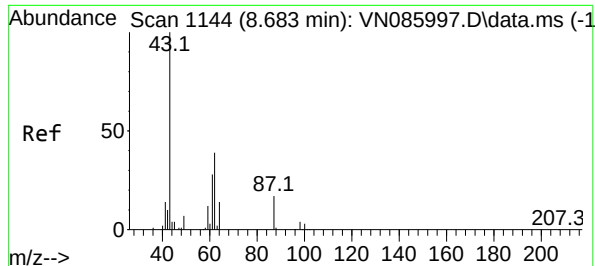
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#42
1,2-Dichloroethane
Concen: 9.776 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VN085999.D
Acq: 18 Mar 2025 12:57

Tgt Ion: 62 Resp: 27959
Ion Ratio Lower Upper
62 100
98 8.6 0.0 18.6





#43

Isopropyl Acetate

Concen: 10.518 ug/l m

RT: 8.688 min Scan# 1145

Delta R.T. 0.006 min

Lab File: VN085999.D

Acq: 18 Mar 2025 12:57

Instrument :

MSVOA_N

ClientSampleId :

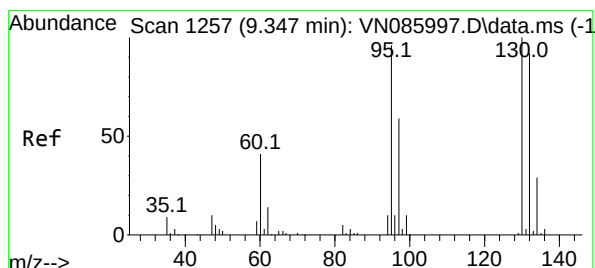
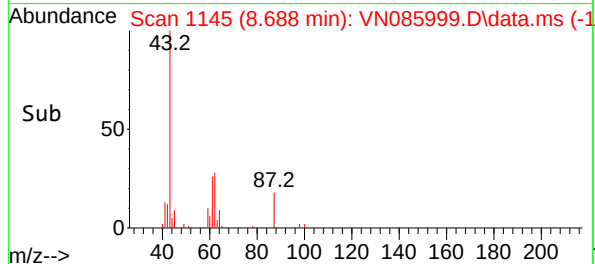
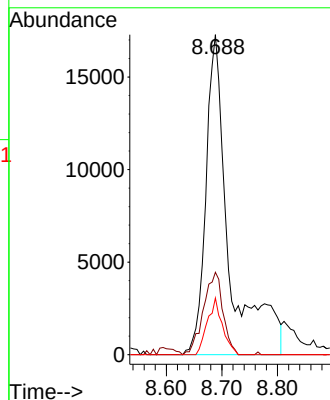
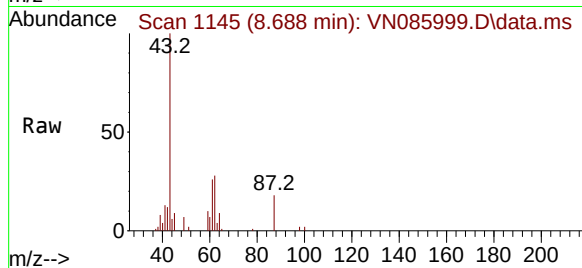
VSTDIC010

Tgt Ion: 43	Resp: 5038
Ion Ratio	Lower Upper
43	100
61	21.4 25.0 37.6
87	11.4 13.0 19.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#44

Trichloroethene

Concen: 9.446 ug/l

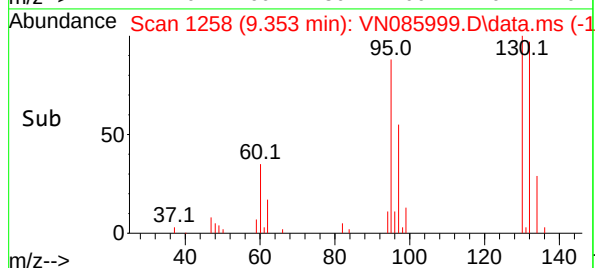
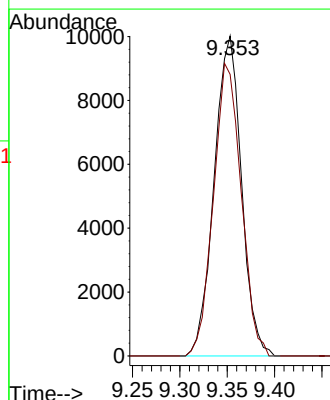
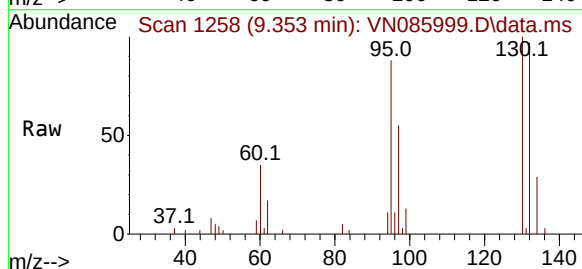
RT: 9.353 min Scan# 1258

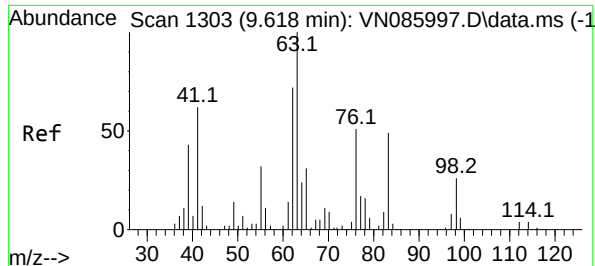
Delta R.T. 0.006 min

Lab File: VN085999.D

Acq: 18 Mar 2025 12:57

Tgt Ion:130	Resp: 20094
Ion Ratio	Lower Upper
130	100
95	88.0 0.0 191.6





#45

1,2-Dichloropropane

Concen: 9.791 ug/l

RT: 9.623 min Scan# 1304

Delta R.T. 0.006 min

Lab File: VN085999.D

Acq: 18 Mar 2025 12:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 63 Resp: 18278

Ion Ratio Lower Upper

63 100

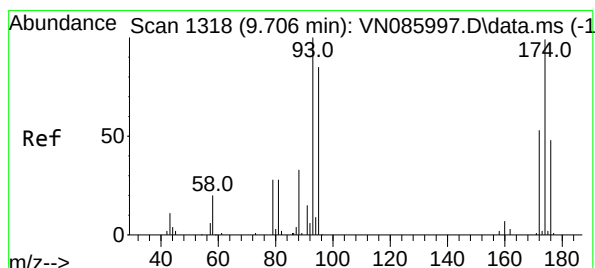
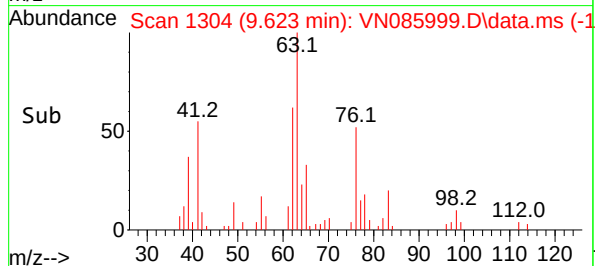
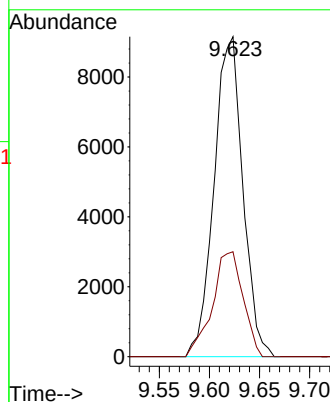
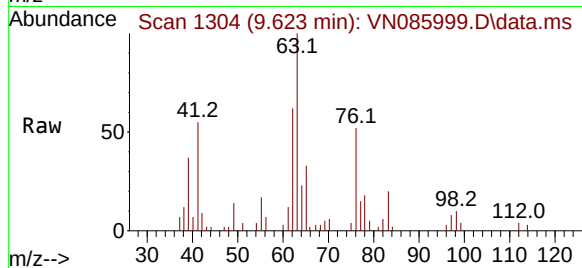
65 32.8 24.7 37.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#46

Dibromomethane

Concen: 9.709 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. -0.000 min

Lab File: VN085999.D

Acq: 18 Mar 2025 12:57

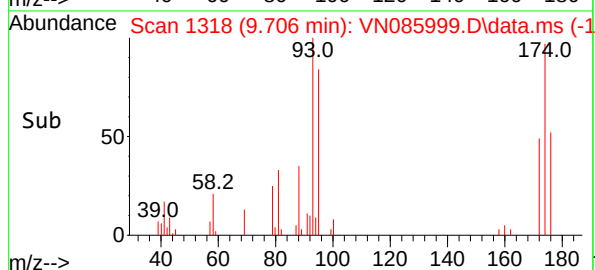
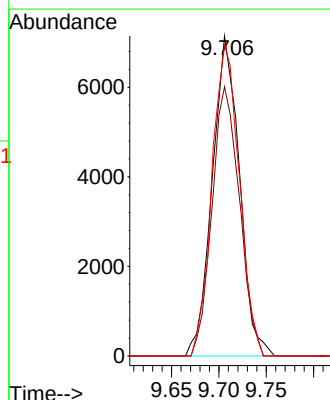
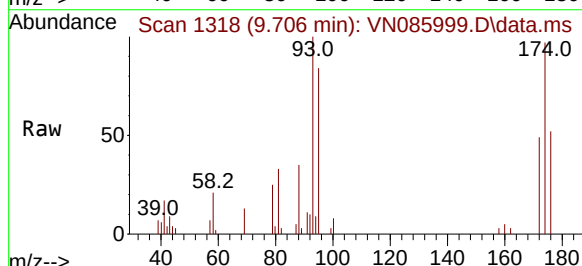
Tgt Ion: 93 Resp: 14254

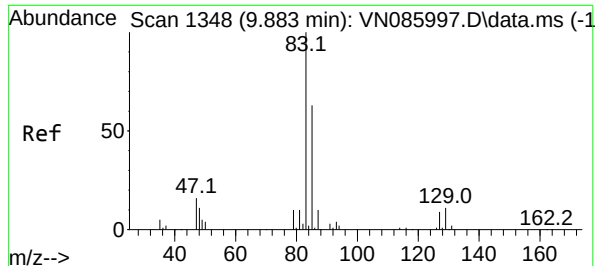
Ion Ratio Lower Upper

93 100

95 85.0 66.2 99.2

174 97.9 80.1 120.1





#47

Bromodichloromethane

Concen: 9.558 ug/l

RT: 9.888 min Scan# 1348

Delta R.T. 0.006 min

Lab File: VN085999.D

Acq: 18 Mar 2025 12:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

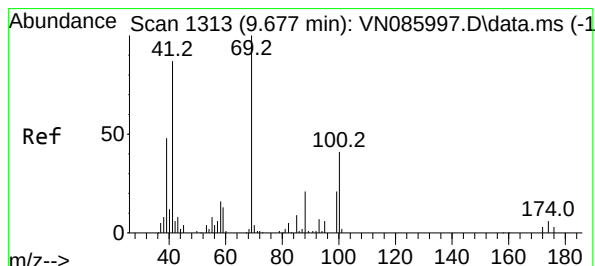
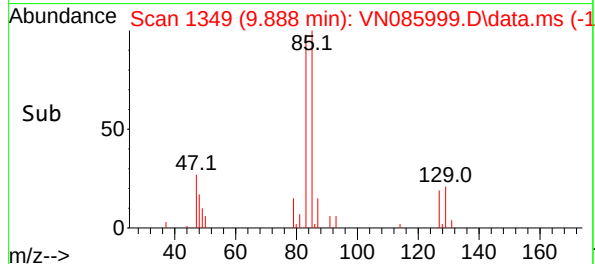
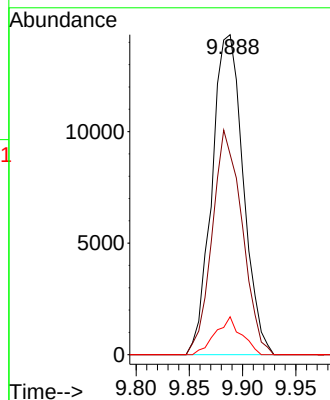
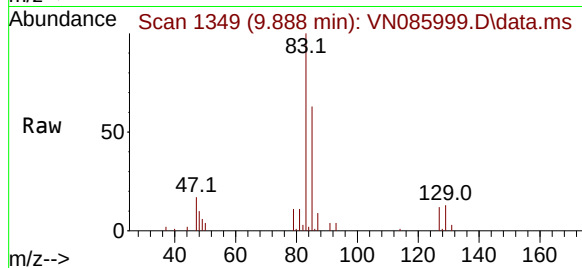
Tgt Ion:	83	Resp:	29320
Ion	Ratio	Lower	Upper
83	100		
85	62.6	50.2	75.2
127	11.8	7.1	10.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#48

Methyl methacrylate

Concen: 9.570 ug/l

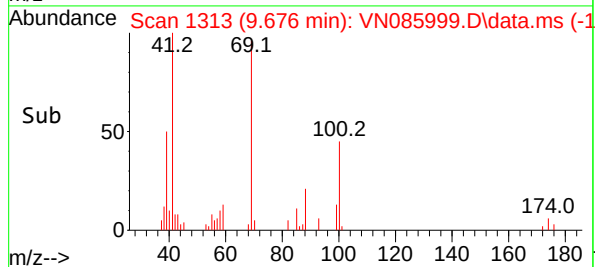
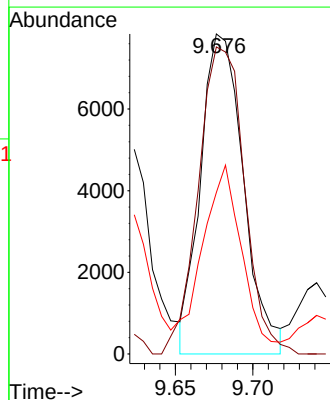
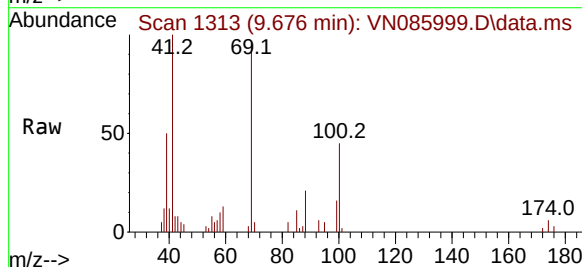
RT: 9.676 min Scan# 1313

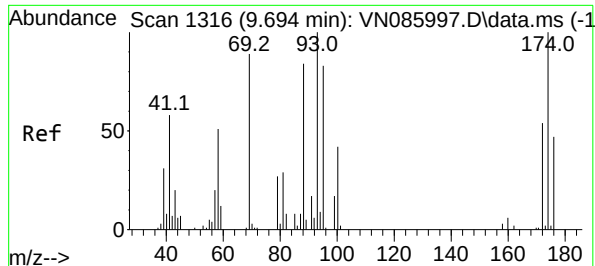
Delta R.T. -0.000 min

Lab File: VN085999.D

Acq: 18 Mar 2025 12:57

Tgt Ion:	41	Resp:	15095
Ion	Ratio	Lower	Upper
41	100		
69	103.0	83.1	124.7
39	55.6	45.6	68.4





#49

1,4-Dioxane

Concen: 218.227 ug/l

RT: 9.694 min Scan# 1316

Delta R.T. -0.000 min

Lab File: VN085999.D

Acq: 18 Mar 2025 12:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 88 Resp: 813

Ion Ratio Lower Upper

88 100

43 23.8 21.7 32.5

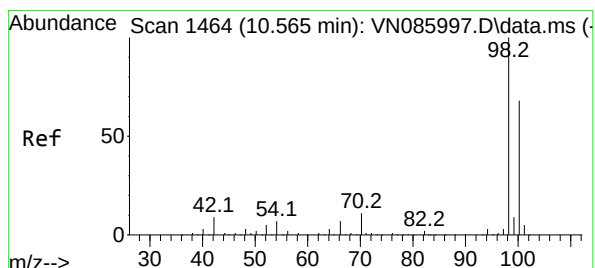
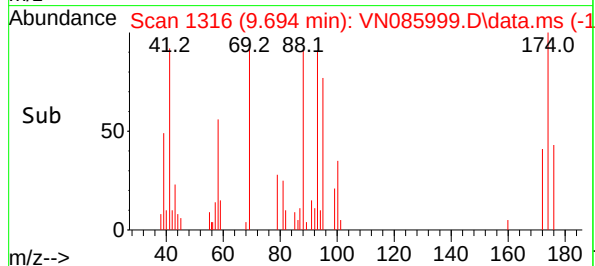
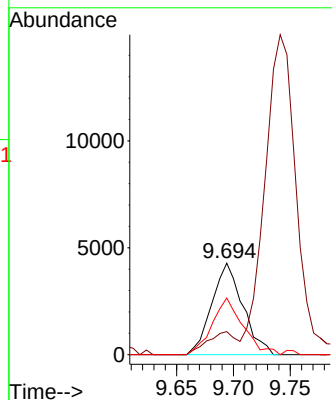
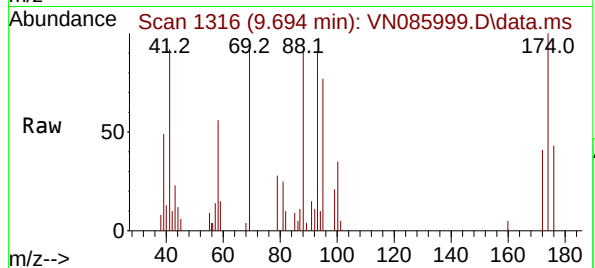
58 61.5 50.4 75.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#50

Toluene-d8

Concen: 10.174 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN085999.D

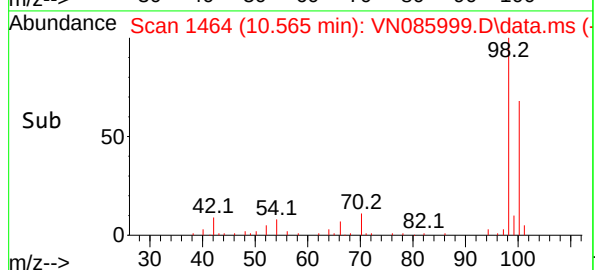
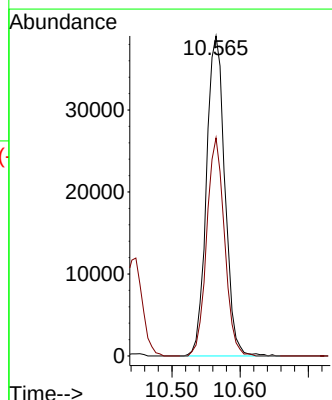
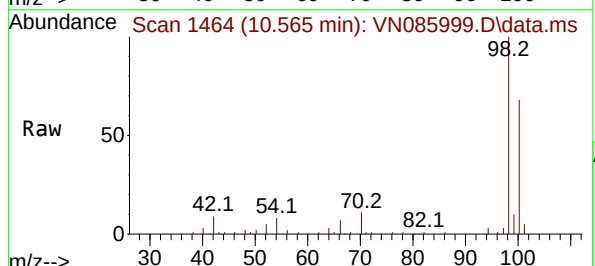
Acq: 18 Mar 2025 12:57

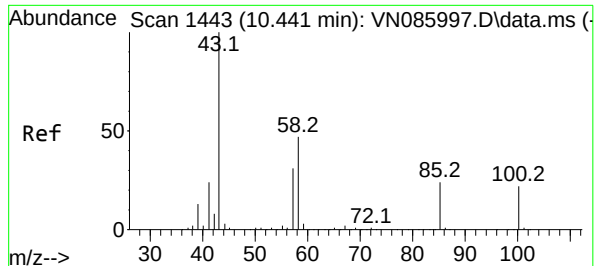
Tgt Ion: 98 Resp: 73317

Ion Ratio Lower Upper

98 100

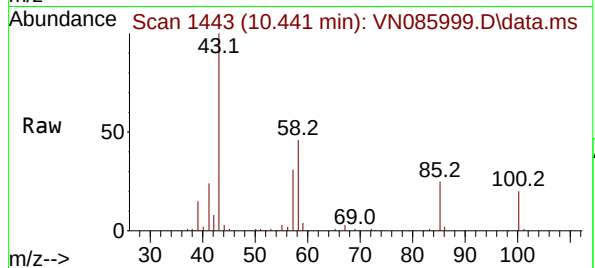
100 65.8 53.1 79.7





#51
4-Methyl-2-Pentanone
Concen: 51.326 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN085999.D
Acq: 18 Mar 2025 12:57

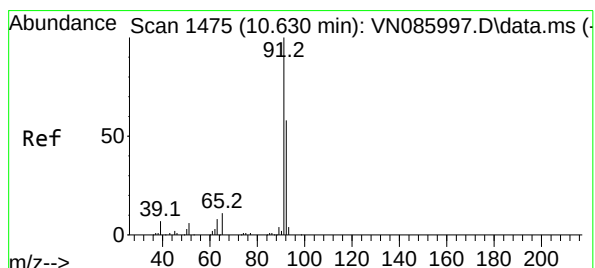
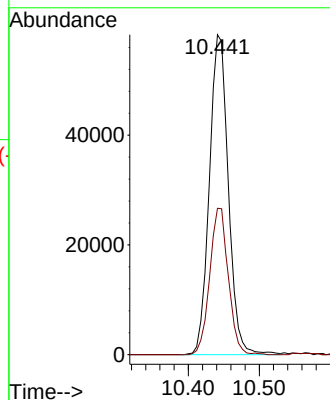
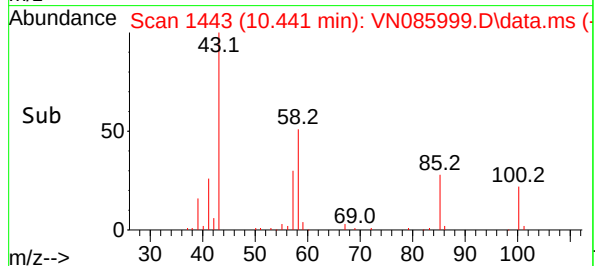
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010



Tgt Ion: 43 Resp: 108190
Ion Ratio Lower Upper
43 100
58 44.9 37.4 56.0

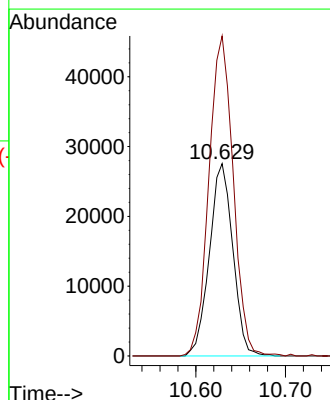
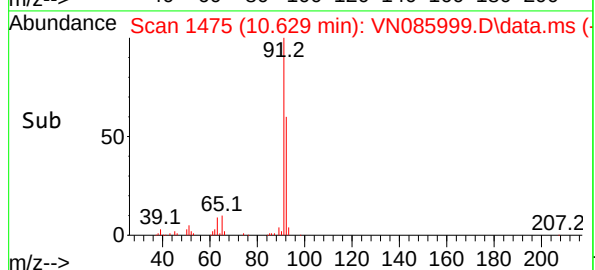
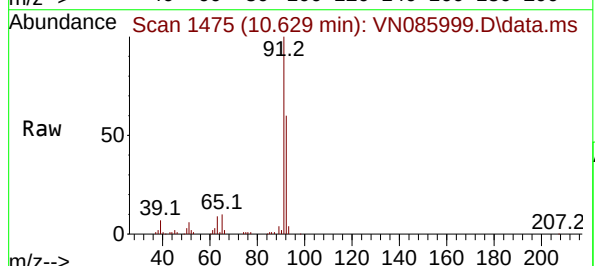
Manual Integrations
APPROVED

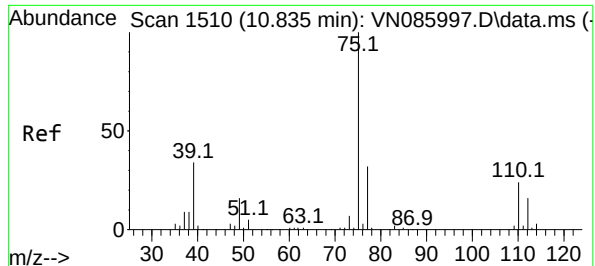
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#52
Toluene
Concen: 9.915 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN085999.D
Acq: 18 Mar 2025 12:57

Tgt Ion: 92 Resp: 49947
Ion Ratio Lower Upper
92 100
91 172.4 136.2 204.4





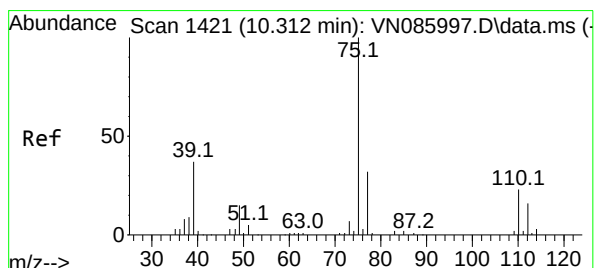
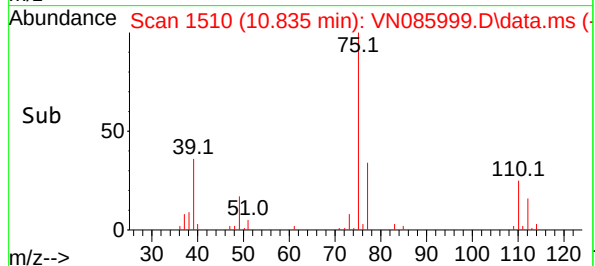
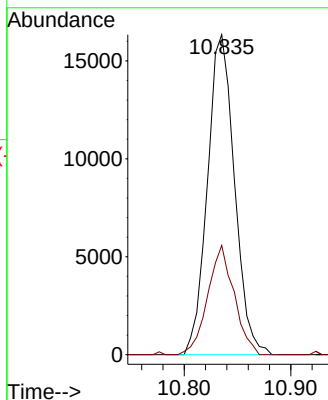
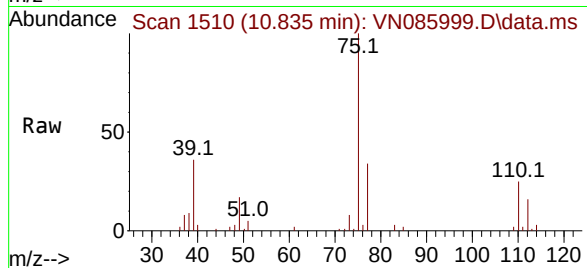
#53
t-1,3-Dichloropropene
Concen: 9.670 ug/l
RT: 10.835 min Scan# 1510
Delta R.T. -0.000 min
Lab File: VN085999.D
Acq: 18 Mar 2025 12:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion: 75 Resp: 2881
Ion Ratio Lower Upper
75 100
77 34.2 25.3 37.9

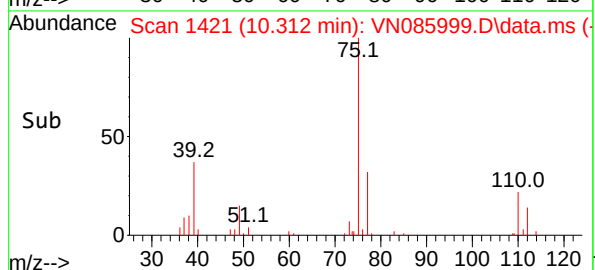
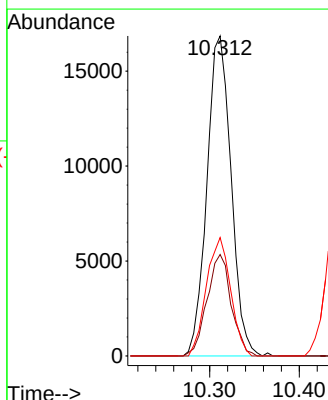
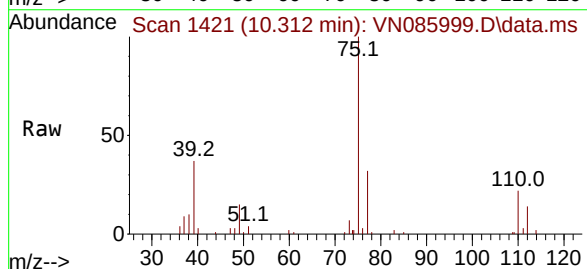
Manual Integrations
APPROVED

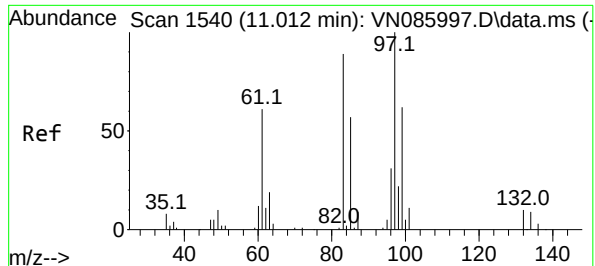
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#54
cis-1,3-Dichloropropene
Concen: 10.042 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. -0.000 min
Lab File: VN085999.D
Acq: 18 Mar 2025 12:57

Tgt Ion: 75 Resp: 31572
Ion Ratio Lower Upper
75 100
77 31.7 25.3 37.9
39 37.0 29.6 44.4





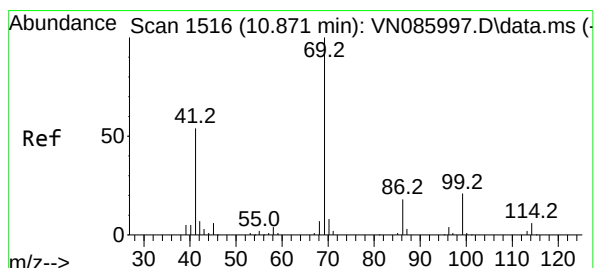
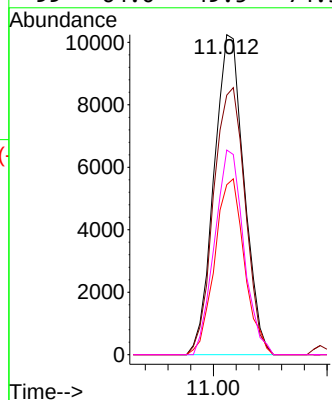
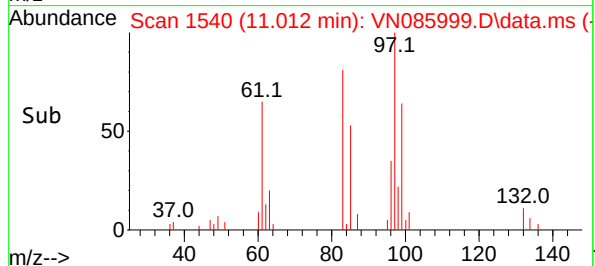
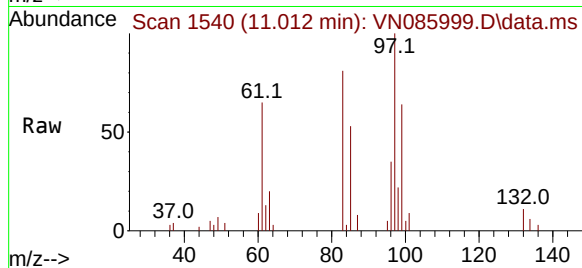
#55
1,1,2-Trichloroethane
Concen: 9.767 ug/l
RT: 11.012 min Scan# 1540
Delta R.T. -0.000 min
Lab File: VN085999.D
Acq: 18 Mar 2025 12:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion: 97	Resp: 18779
Ion Ratio	Lower Upper
97 100	
83 81.1	71.2 106.8
85 53.1	45.4 68.0
99 64.0	49.5 74.3

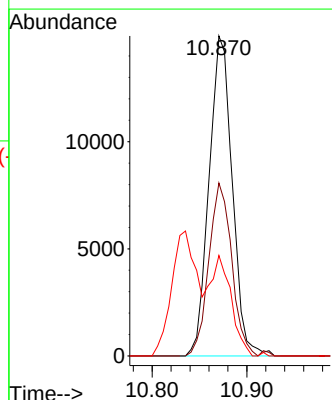
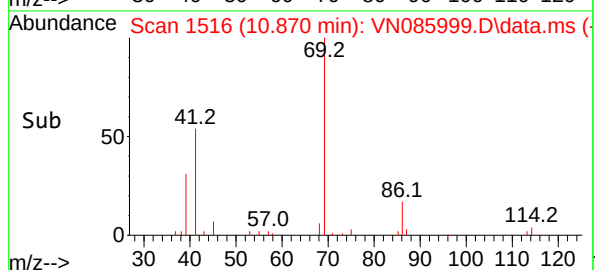
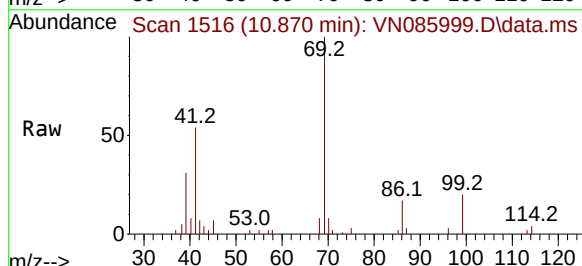
Manual Integrations
APPROVED

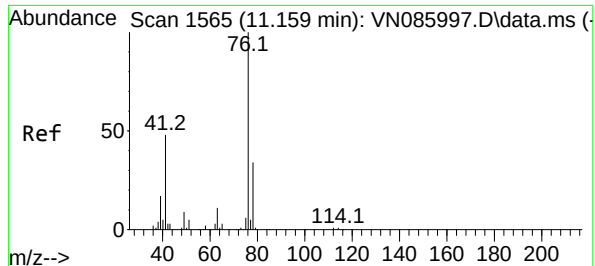
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#56
Ethyl methacrylate
Concen: 10.180 ug/l
RT: 10.870 min Scan# 1516
Delta R.T. -0.001 min
Lab File: VN085999.D
Acq: 18 Mar 2025 12:57

Tgt Ion: 69	Resp: 25340
Ion Ratio	Lower Upper
69 100	
41 53.5	41.6 62.4
39 25.1	21.8 32.8





#57

1,3-Dichloropropane

Concen: 9.957 ug/l

RT: 11.159 min Scan# 1565

Delta R.T. -0.000 min

Lab File: VN085999.D

Acq: 18 Mar 2025 12:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 76 Resp: 32510

Ion Ratio Lower Upper

76 100

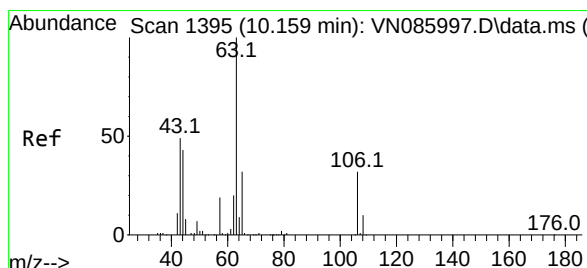
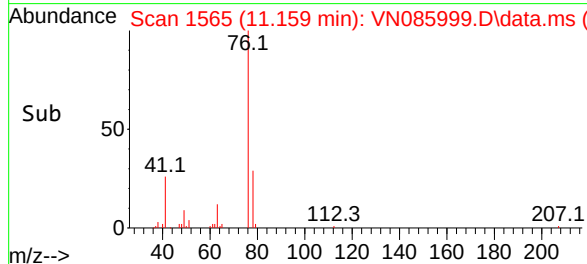
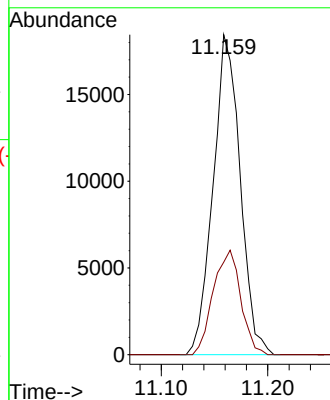
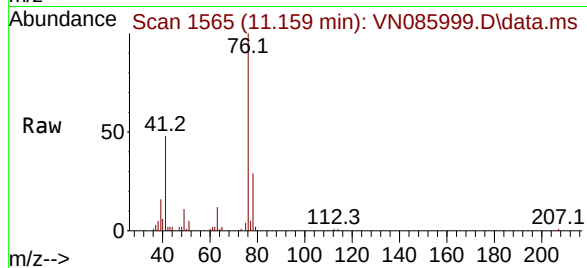
78 33.2 25.8 38.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#58

2-Chloroethyl Vinyl ether

Concen: 60.781 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. -0.000 min

Lab File: VN085999.D

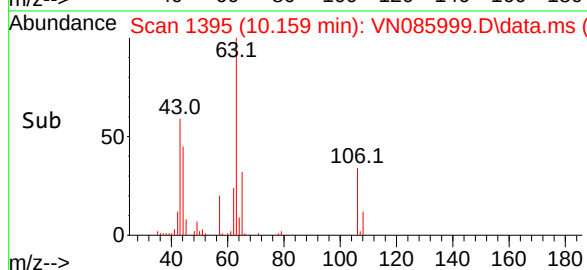
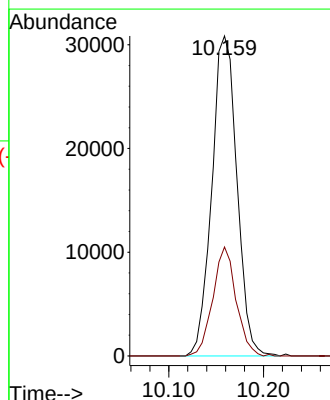
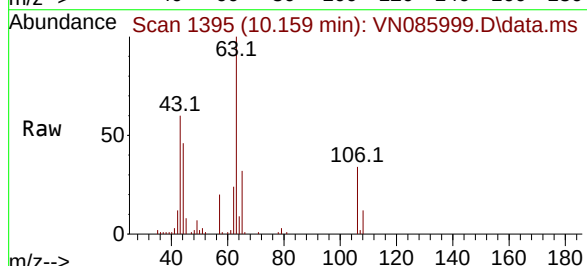
Acq: 18 Mar 2025 12:57

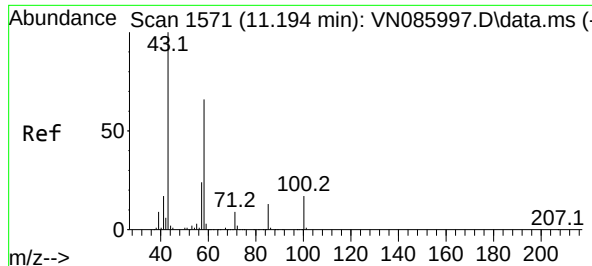
Tgt Ion: 63 Resp: 56781

Ion Ratio Lower Upper

63 100

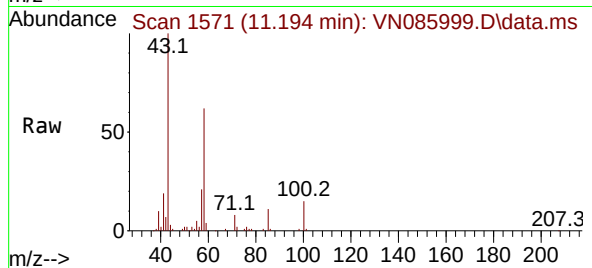
106 31.6 25.0 37.6





#59
2-Hexanone
Concen: 49.939 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. -0.000 min
Lab File: VN085999.D
Acq: 18 Mar 2025 12:57

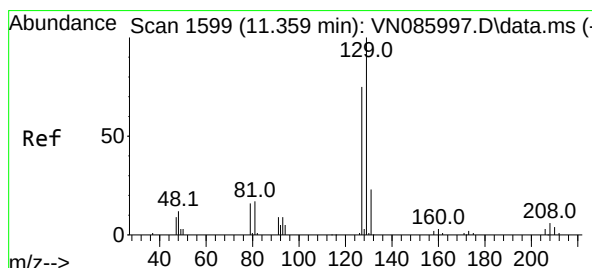
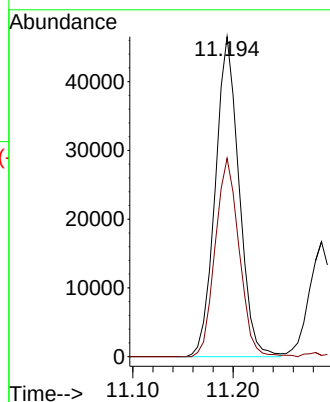
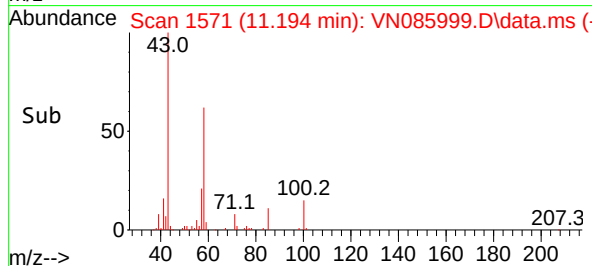
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010



Tgt Ion: 43 Resp: 76690
Ion Ratio Lower Upper
43 100
58 62.2 32.4 97.2

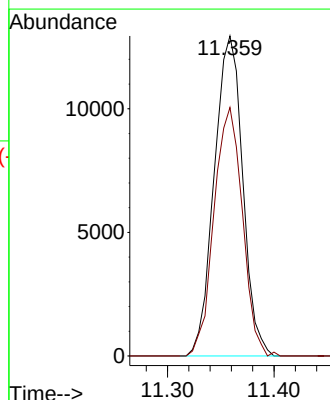
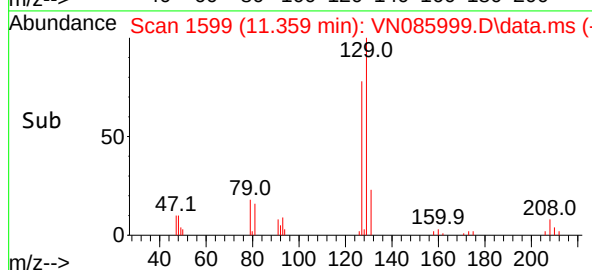
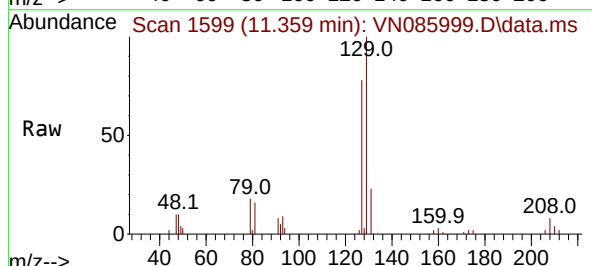
Manual Integrations
APPROVED

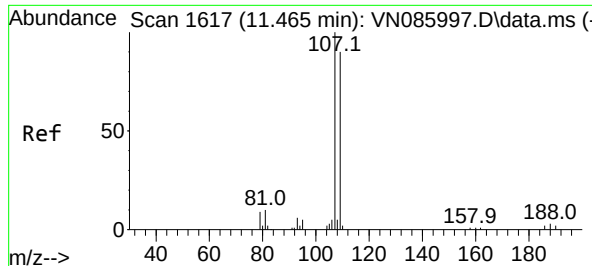
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#60
Dibromochloromethane
Concen: 9.685 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VN085999.D
Acq: 18 Mar 2025 12:57

Tgt Ion:129 Resp: 24029
Ion Ratio Lower Upper
129 100
127 77.5 37.8 113.4





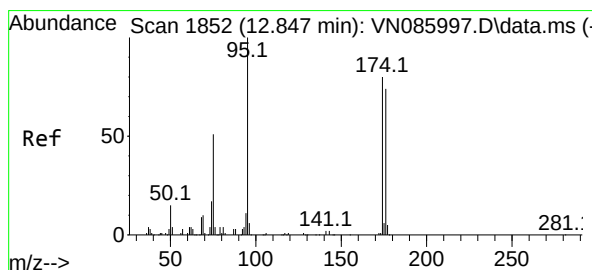
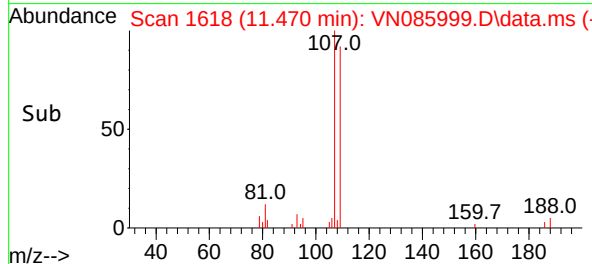
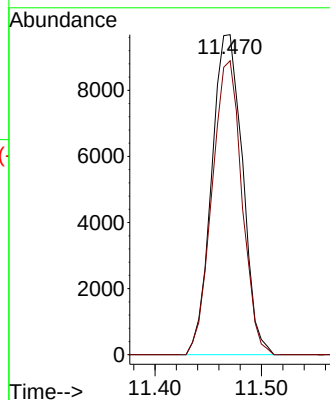
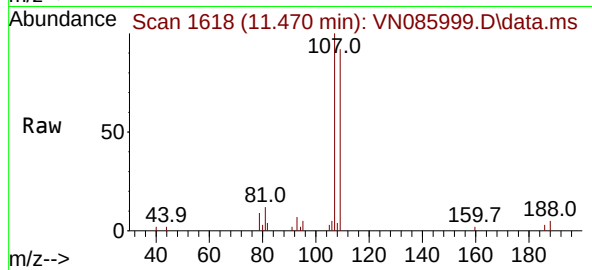
#61
1,2-Dibromoethane
Concen: 9.879 ug/l
RT: 11.470 min Scan# 1618
Delta R.T. 0.006 min
Lab File: VN085999.D
Acq: 18 Mar 2025 12:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion:107 Resp: 19500
Ion Ratio Lower Upper
107 100
109 88.9 73.3 109.9

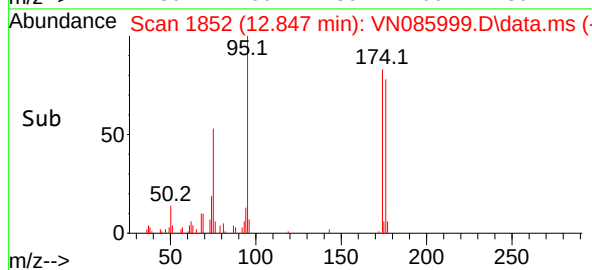
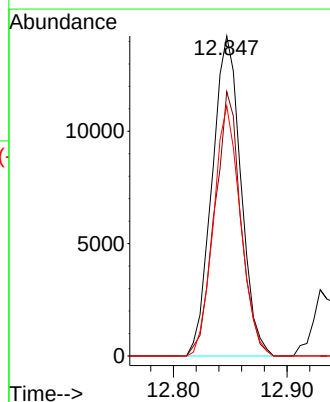
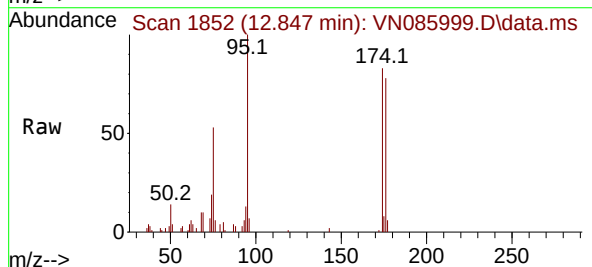
Manual Integrations
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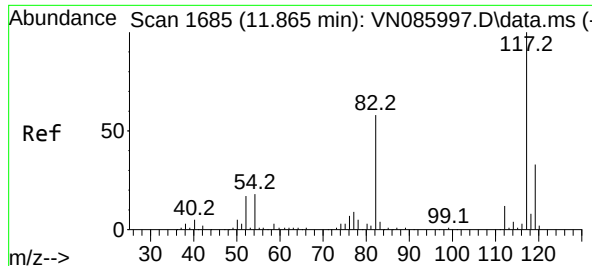
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#62
4-Bromofluorobenzene
Concen: 9.746 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085999.D
Acq: 18 Mar 2025 12:57

Tgt Ion: 95 Resp: 25049
Ion Ratio Lower Upper
95 100
174 75.2 0.0 156.8
176 73.8 0.0 152.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1685

Delta R.T. -0.000 min

Lab File: VN085999.D

Acq: 18 Mar 2025 12:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion:117 Resp: 249100

Ion Ratio Lower Upper

117 100

82 57.5 46.7 70.1

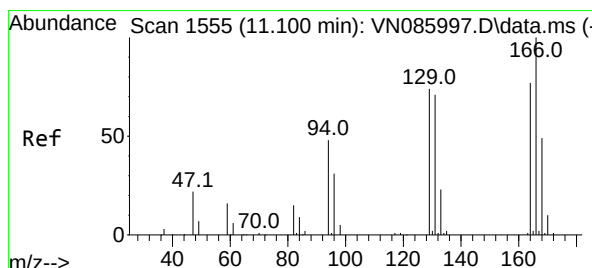
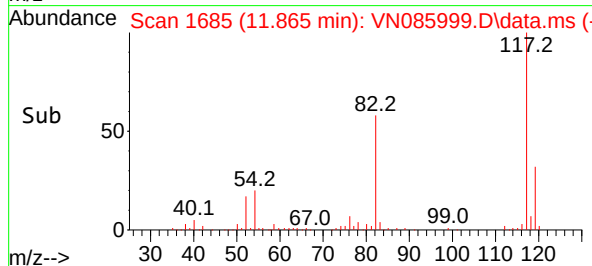
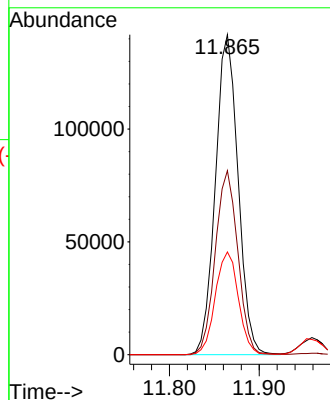
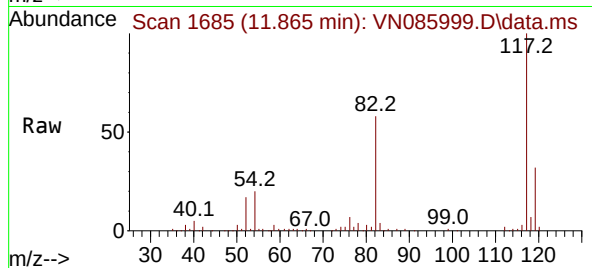
119 32.1 26.5 39.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#64

Tetrachloroethene

Concen: 9.781 ug/l

RT: 11.100 min Scan# 1555

Delta R.T. -0.000 min

Lab File: VN085999.D

Acq: 18 Mar 2025 12:57

Tgt Ion:164 Resp: 19436

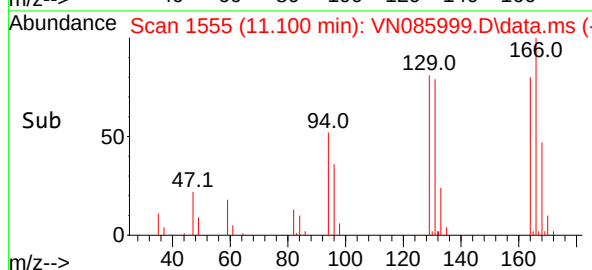
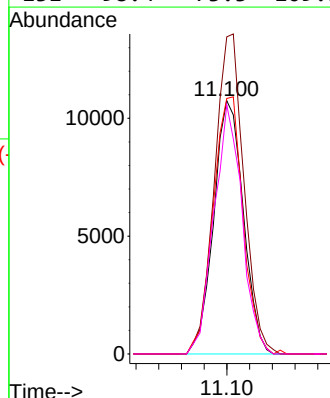
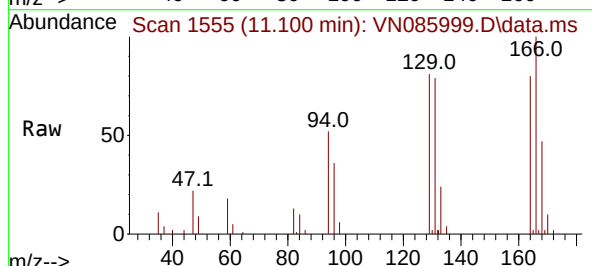
Ion Ratio Lower Upper

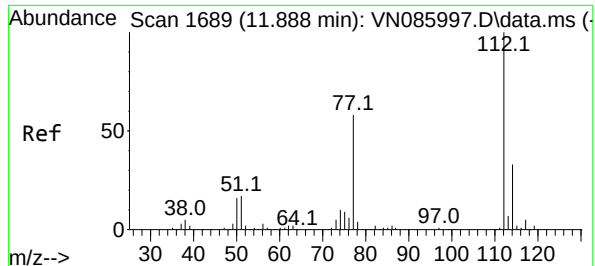
164 100

166 125.2 103.7 155.5

129 100.9 77.1 115.7

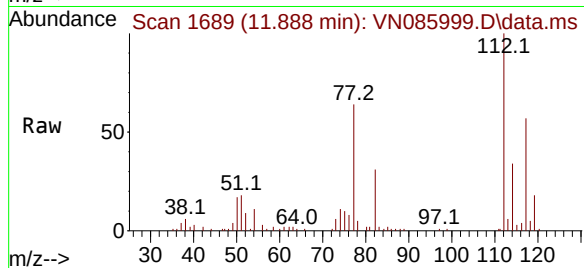
131 98.4 73.3 109.9





#65
Chlorobenzene
Concen: 9.752 ug/l
RT: 11.888 min Scan# 111
Delta R.T. -0.000 min
Lab File: VN085999.D
Acq: 18 Mar 2025 12:57

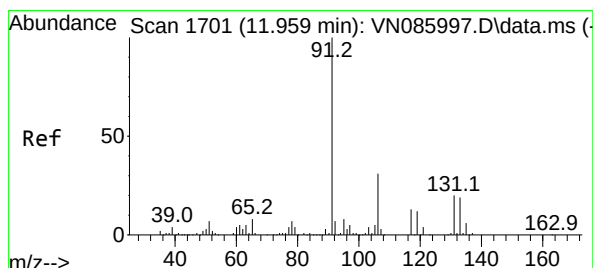
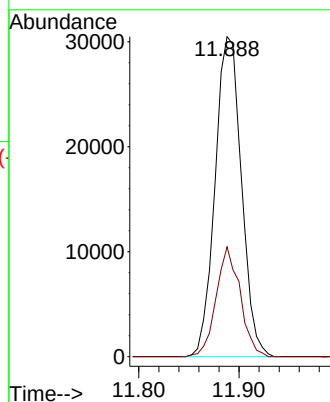
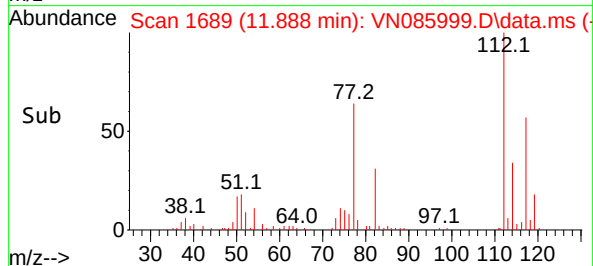
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010



Tgt Ion:112 Resp: 55590
Ion Ratio Lower Upper
112 100
114 34.3 26.3 39.5

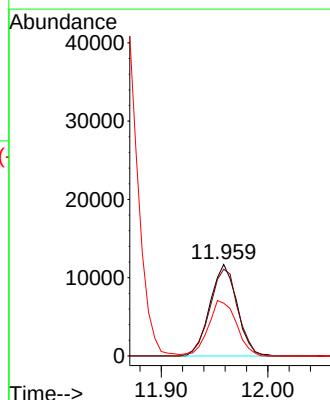
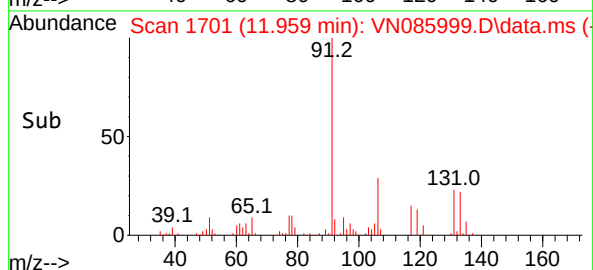
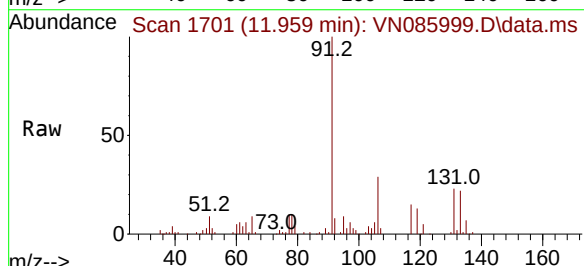
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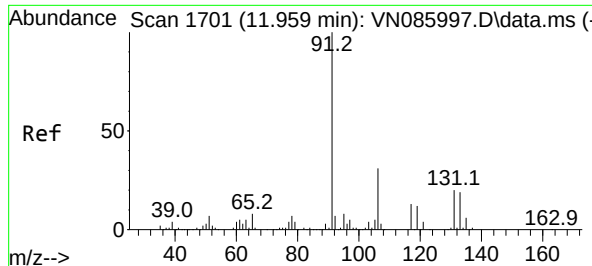
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 9.740 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN085999.D
Acq: 18 Mar 2025 12:57

Tgt Ion:131 Resp: 20639
Ion Ratio Lower Upper
131 100
133 98.4 47.0 141.0
119 62.6 31.4 94.0





#67

Ethyl Benzene

Concen: 9.666 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VN085999.D

Acq: 18 Mar 2025 12:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 91 Resp: 8813

Ion Ratio Lower Upper

91 100

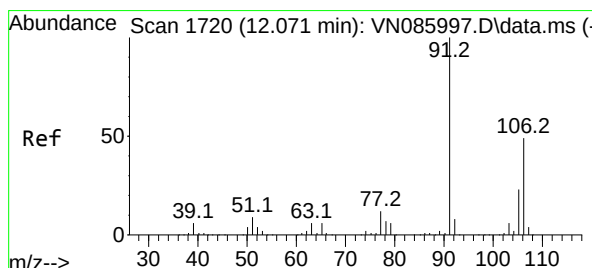
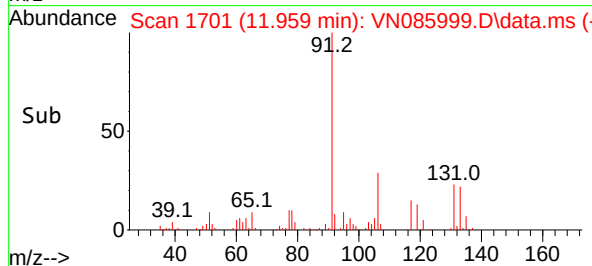
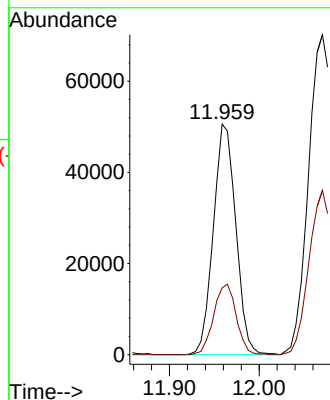
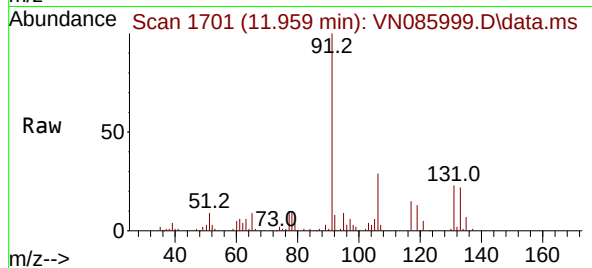
106 28.9 24.5 36.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#68

m/p-Xylenes

Concen: 19.180 ug/l

RT: 12.070 min Scan# 1720

Delta R.T. -0.000 min

Lab File: VN085999.D

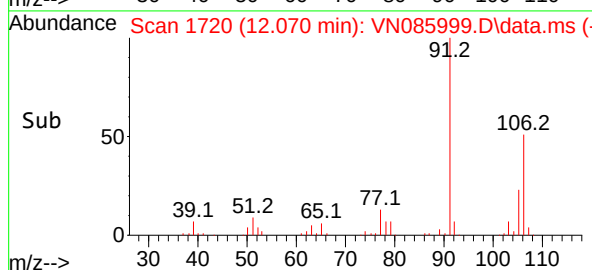
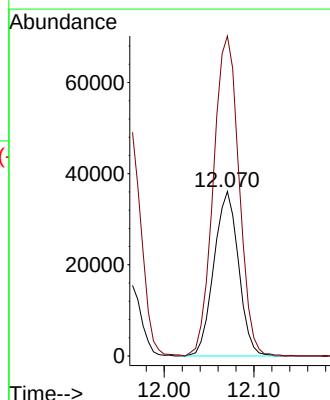
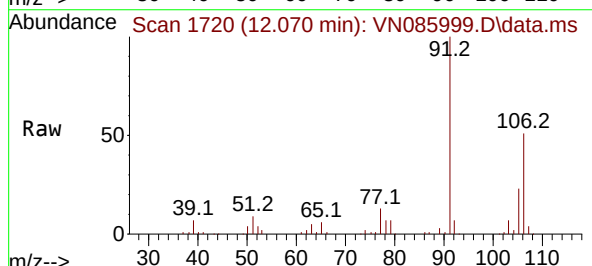
Acq: 18 Mar 2025 12:57

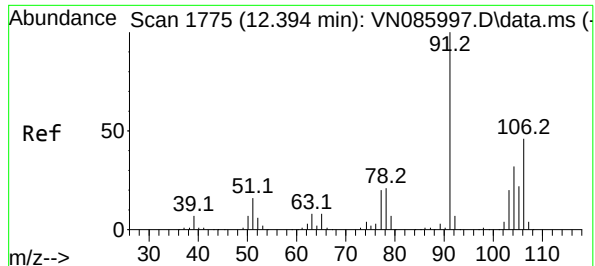
Tgt Ion:106 Resp: 68738

Ion Ratio Lower Upper

106 100

91 202.6 163.9 245.9





#69

o-Xylene

Concen: 9.770 ug/l

RT: 12.400 min Scan# 1776

Delta R.T. 0.006 min

Lab File: VN085999.D

Acq: 18 Mar 2025 12:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion:106 Resp: 3213

Ion Ratio Lower Upper

106 100

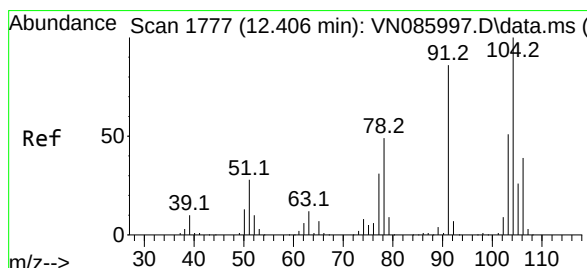
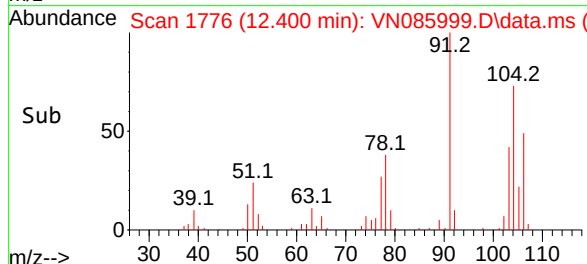
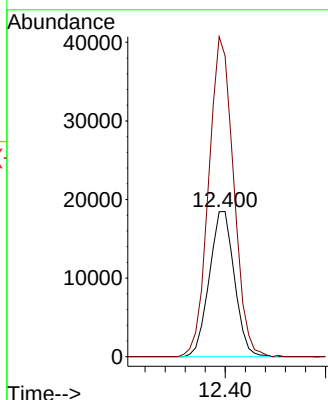
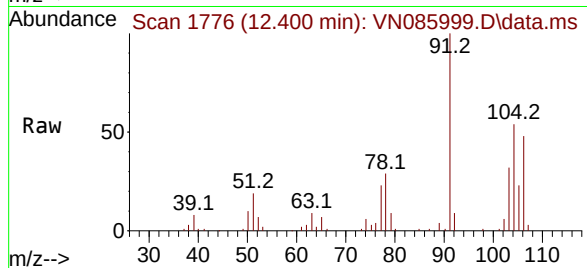
91 219.1 109.1 327.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#70

Styrene

Concen: 9.254 ug/l

RT: 12.412 min Scan# 1778

Delta R.T. 0.006 min

Lab File: VN085999.D

Acq: 18 Mar 2025 12:57

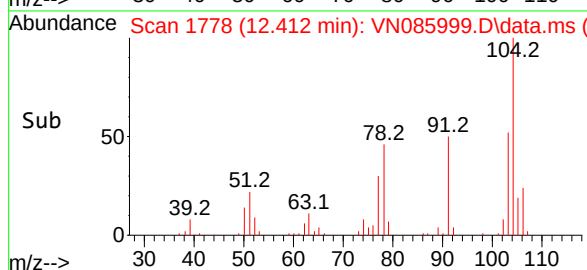
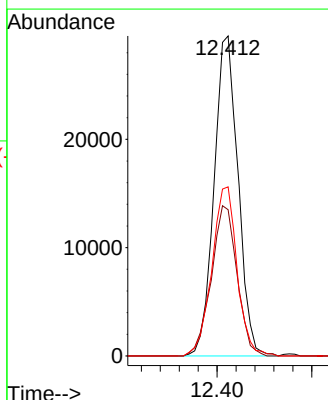
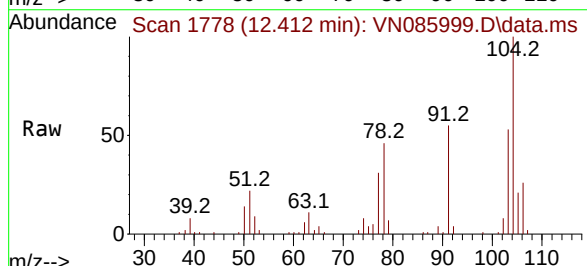
Tgt Ion:104 Resp: 51989

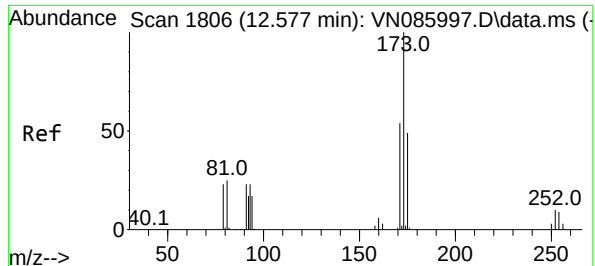
Ion Ratio Lower Upper

104 100

78 50.3 41.4 62.2

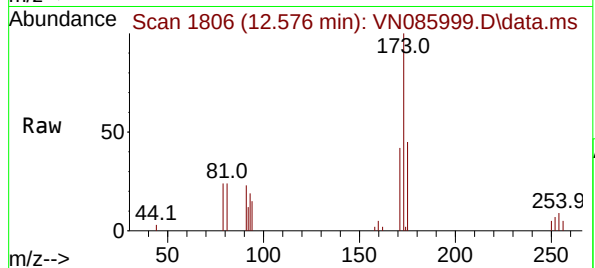
103 55.5 42.9 64.3





#71
Bromoform
Concen: 9.624 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. -0.000 min
Lab File: VN085999.D
Acq: 18 Mar 2025 12:57

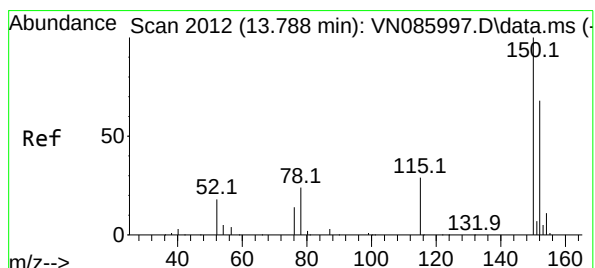
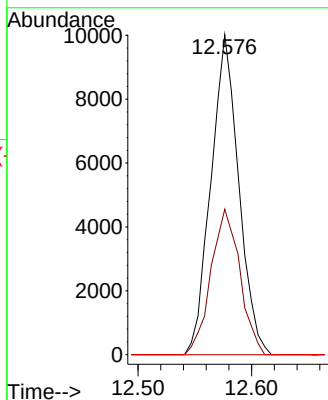
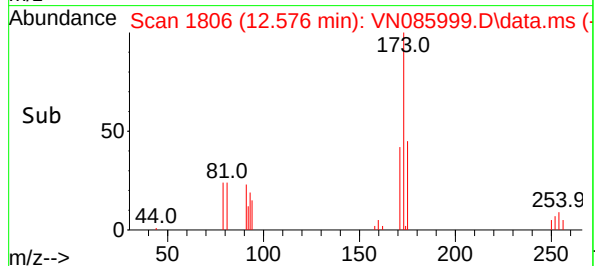
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010



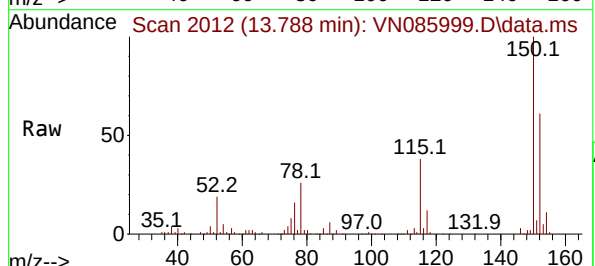
Tgt Ion:173 Resp: 17048
Ion Ratio Lower Upper
173 100
175 47.4 24.3 73.0
254 0.0 0.0 0.0

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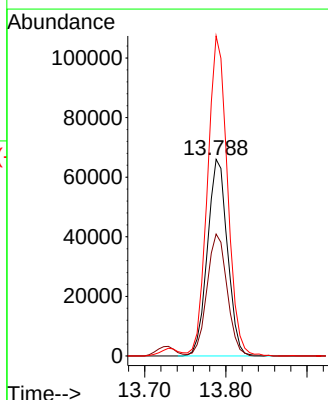
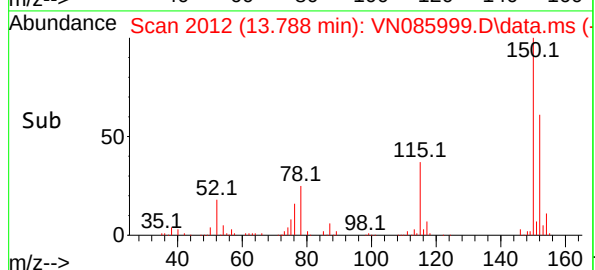
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025

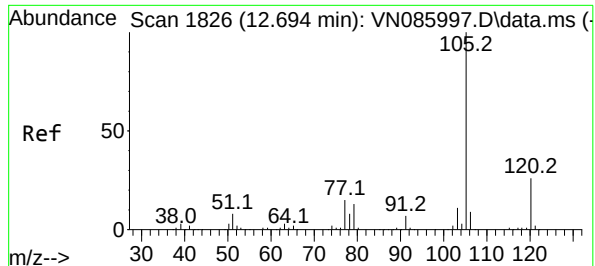


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN085999.D
Acq: 18 Mar 2025 12:57



Tgt Ion:152 Resp: 112825
Ion Ratio Lower Upper
152 100
115 62.5 31.1 93.2
150 162.0 0.0 359.6





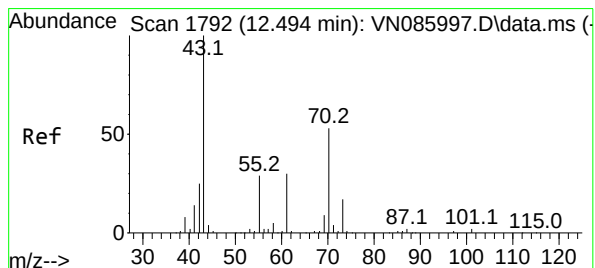
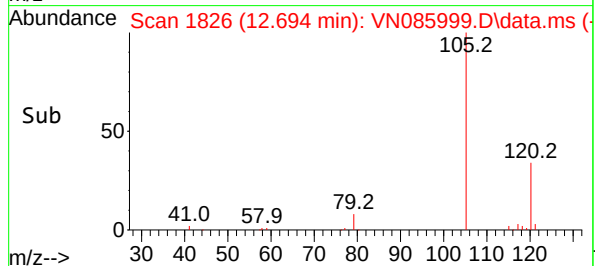
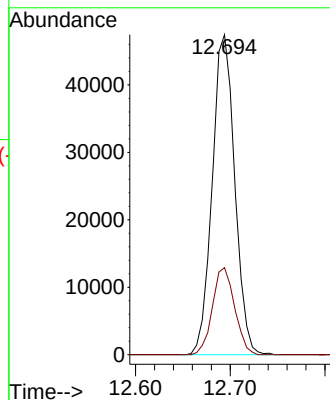
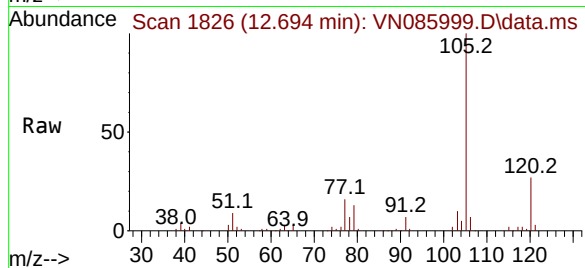
#73
Isopropylbenzene
Concen: 10.163 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. -0.000 min
Lab File: VN085999.D
Acq: 18 Mar 2025 12:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion:105 Resp: 78299
Ion Ratio Lower Upper
105 100
120 26.8 13.0 39.0

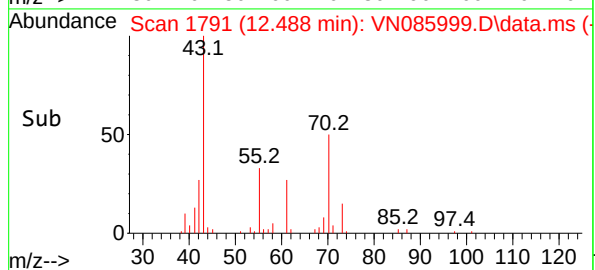
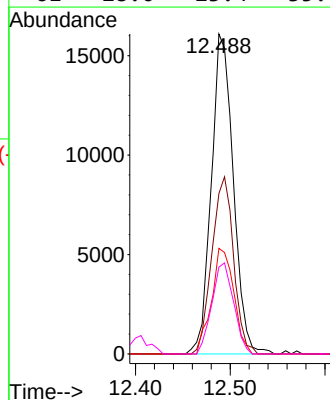
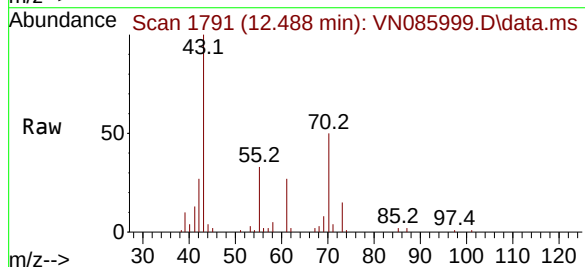
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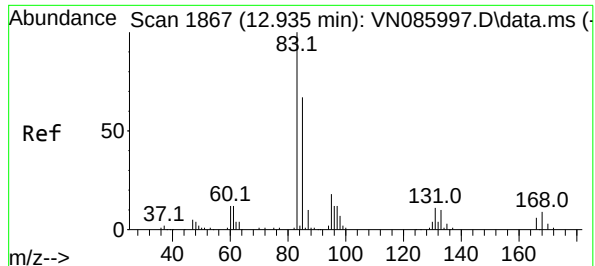
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#74
N-ethyl acetate
Concen: 10.090 ug/l
RT: 12.488 min Scan# 1791
Delta R.T. -0.006 min
Lab File: VN085999.D
Acq: 18 Mar 2025 12:57

Tgt Ion: 43 Resp: 26009
Ion Ratio Lower Upper
43 100
70 54.7 43.0 64.4
55 33.3 23.8 35.8
61 28.0 23.4 35.0





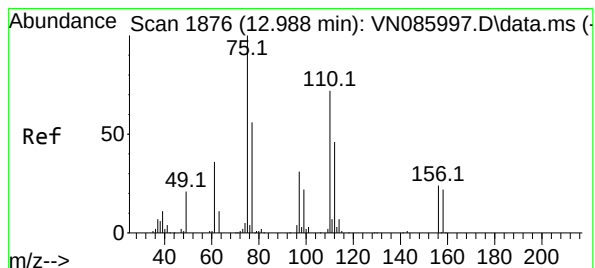
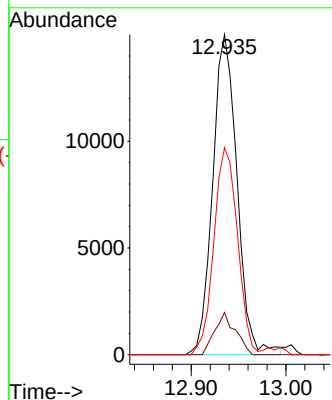
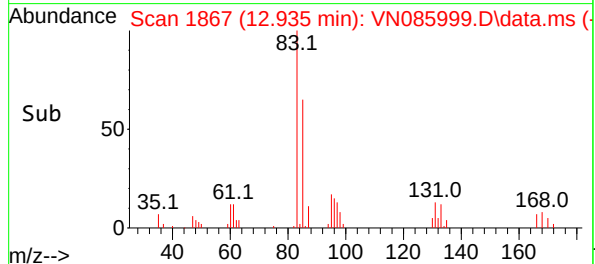
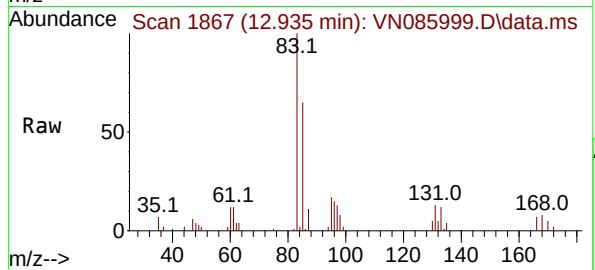
#75
1,1,2,2-Tetrachloroethane
Concen: 10.307 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. -0.000 min
Lab File: VN085999.D
Acq: 18 Mar 2025 12:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion: 83 Resp: 2686
Ion Ratio Lower Upper
83 100
131 11.1 5.5 16.5
85 63.0 32.6 97.8

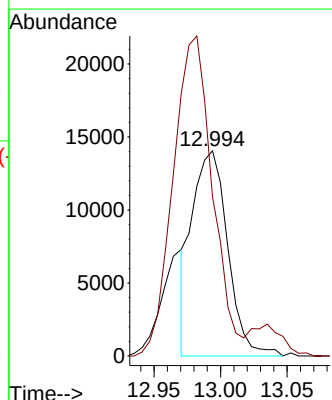
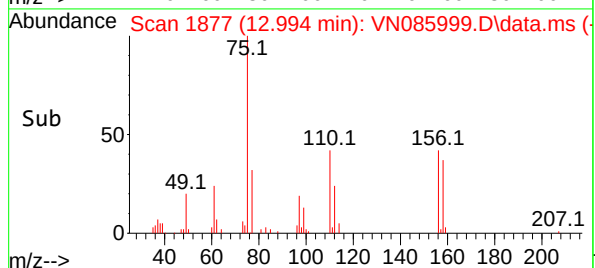
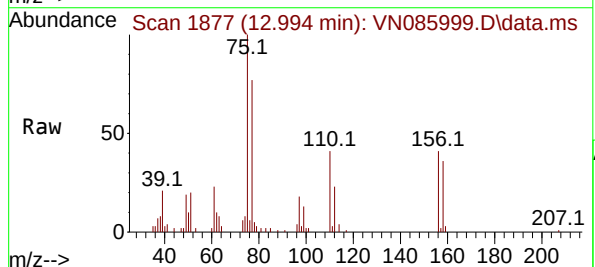
Manual Integrations
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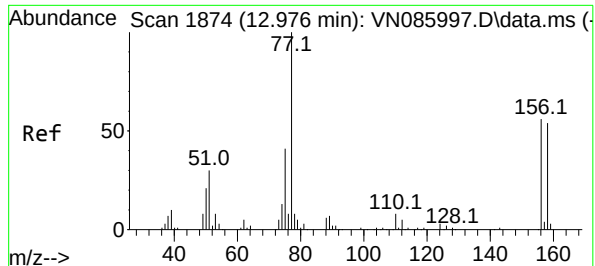
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#76
1,2,3-Trichloropropane
Concen: 10.117 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. 0.006 min
Lab File: VN085999.D
Acq: 18 Mar 2025 12:57

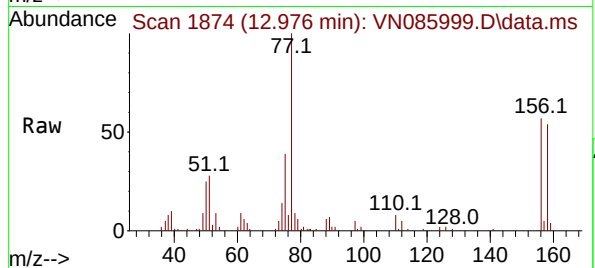
Tgt Ion: 75 Resp: 26024
Ion Ratio Lower Upper
75 100
77 172.7 83.7 251.0





#77
Bromobenzene
Concen: 10.150 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. -0.000 min
Lab File: VN085999.D
Acq: 18 Mar 2025 12:57

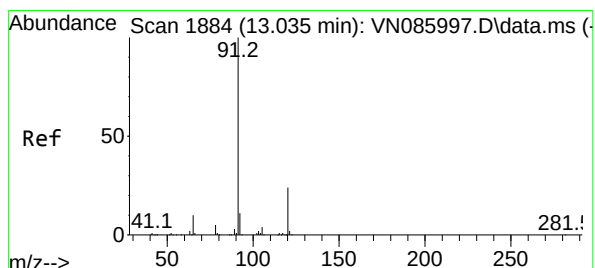
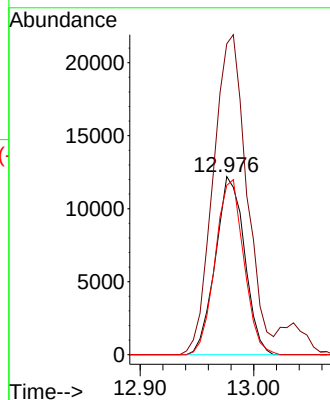
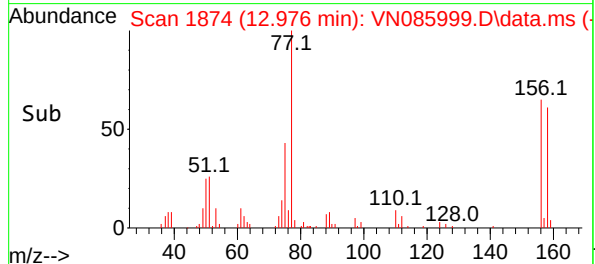
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010



Tgt Ion:156 Resp: 2180
Ion Ratio Lower Upper
156 100
77 206.1 104.1 312.3
158 96.0 49.0 147.0

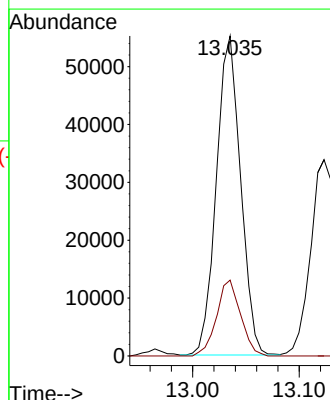
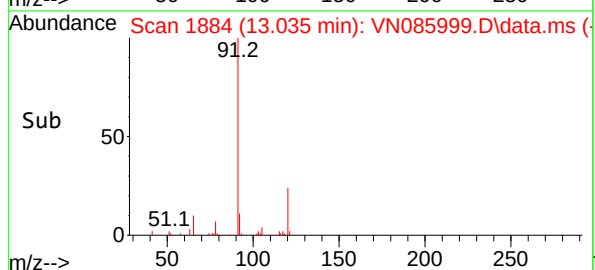
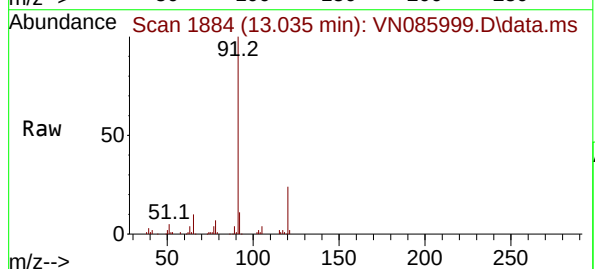
Manual Integrations
APPROVED

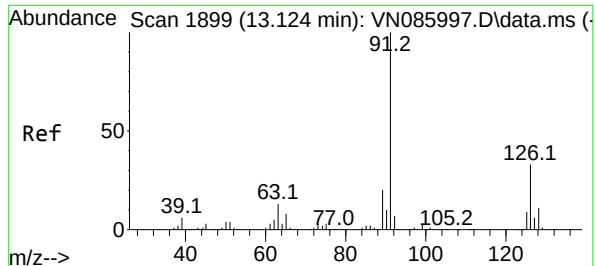
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#78
n-propylbenzene
Concen: 9.989 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN085999.D
Acq: 18 Mar 2025 12:57

Tgt Ion: 91 Resp: 87149
Ion Ratio Lower Upper
91 100
120 23.5 11.7 35.0





#79

2-Chlorotoluene

Concen: 10.075 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. -0.000 min

Lab File: VN085999.D

Acq: 18 Mar 2025 12:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 91 Resp: 5838

Ion Ratio Lower Upper

91 100

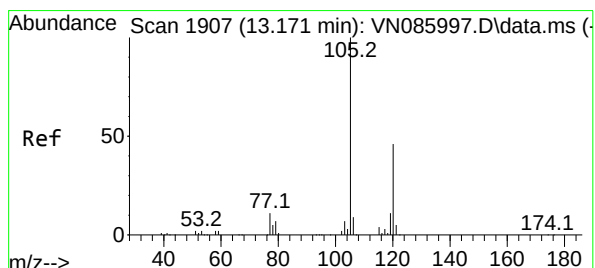
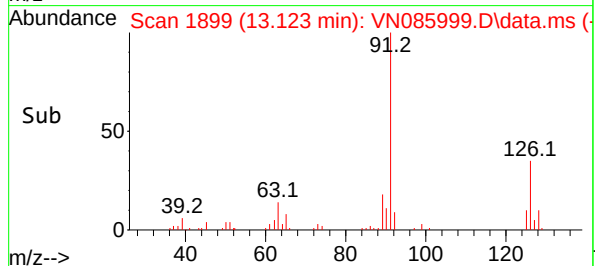
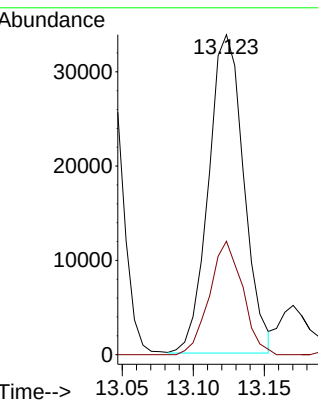
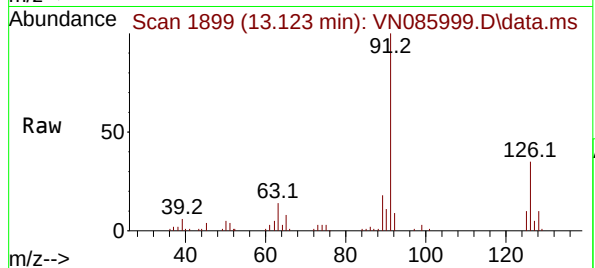
126 33.4 16.4 49.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#80

1,3,5-Trimethylbenzene

Concen: 10.071 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VN085999.D

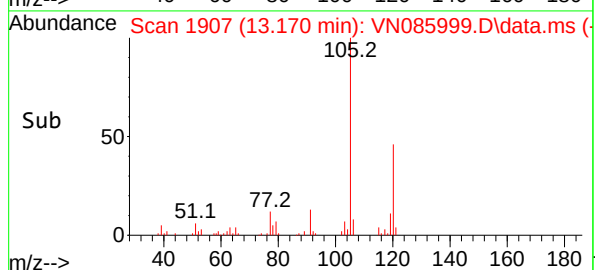
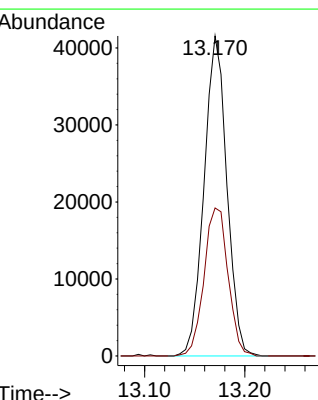
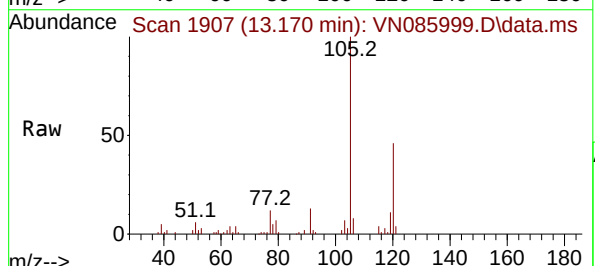
Acq: 18 Mar 2025 12:57

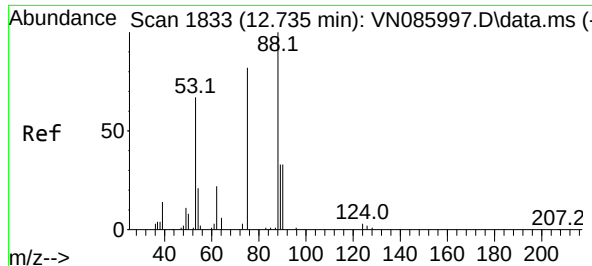
Tgt Ion:105 Resp: 65511

Ion Ratio Lower Upper

105 100

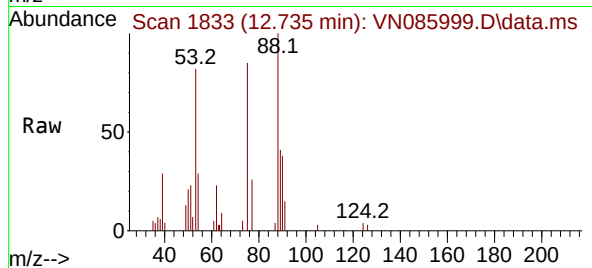
120 48.8 23.7 71.1





#81
trans-1,4-Dichloro-2-butene
Concen: 9.466 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. -0.000 min
Lab File: VN085999.D
Acq: 18 Mar 2025 12:57

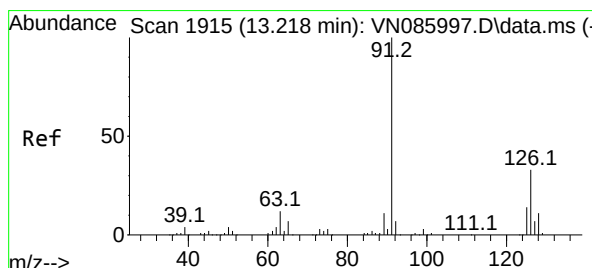
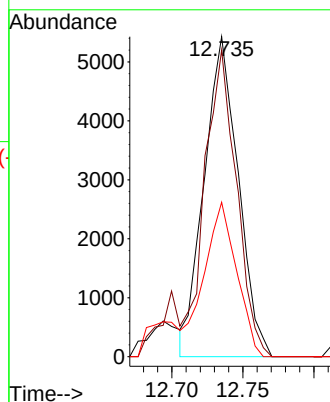
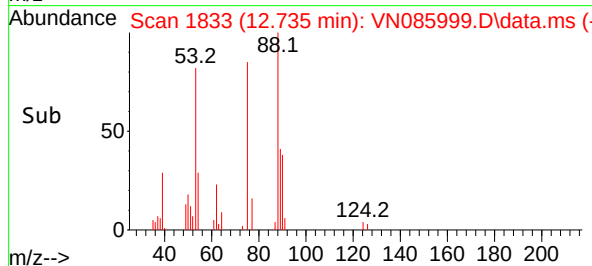
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010



Tgt Ion: 75 Resp: 904
Ion Ratio Lower Upper
75 100
53 89.6 66.0 99.0
89 46.4 36.9 55.3

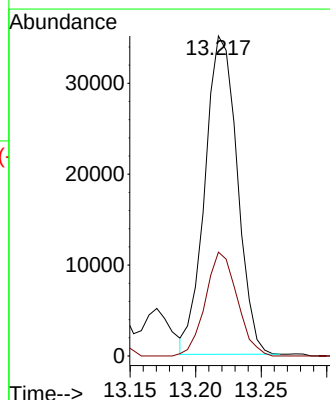
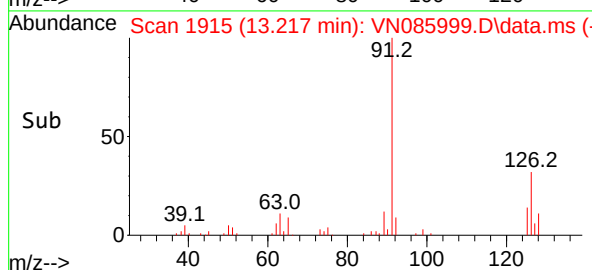
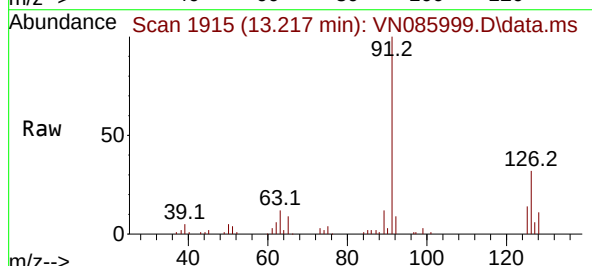
Manual Integrations
APPROVED

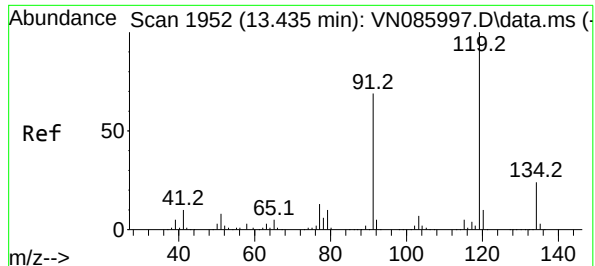
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#82
4-Chlorotoluene
Concen: 10.077 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. -0.000 min
Lab File: VN085999.D
Acq: 18 Mar 2025 12:57

Tgt Ion: 91 Resp: 60050
Ion Ratio Lower Upper
91 100
126 32.1 16.1 48.2





#83

tert-Butylbenzene

Concen: 10.208 ug/l

RT: 13.435 min Scan# 1952

Delta R.T. -0.000 min

Lab File: VN085999.D

Acq: 18 Mar 2025 12:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

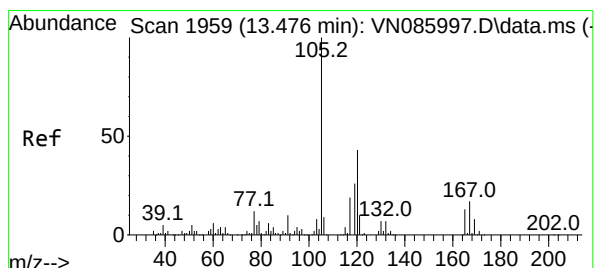
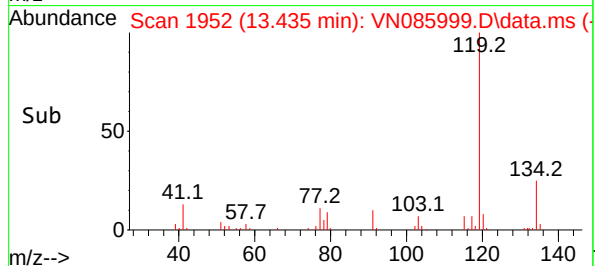
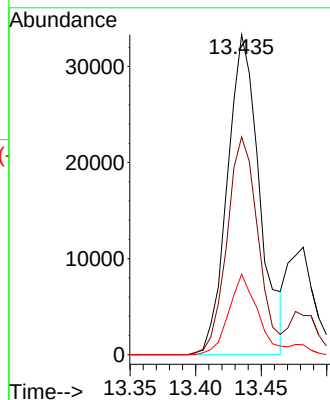
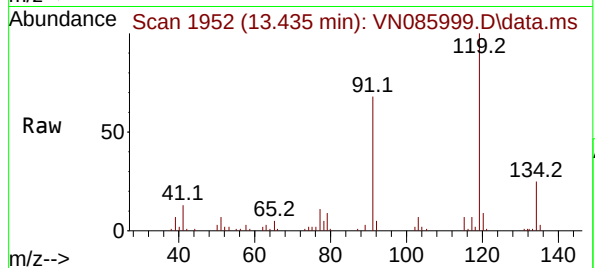
Tgt Ion:	119	Resp:	5679
Ion Ratio	Lower	Upper	
119	100		
91	66.1	34.3	102.9
134	22.9	13.5	40.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#84

1,2,4-Trimethylbenzene

Concen: 10.124 ug/l

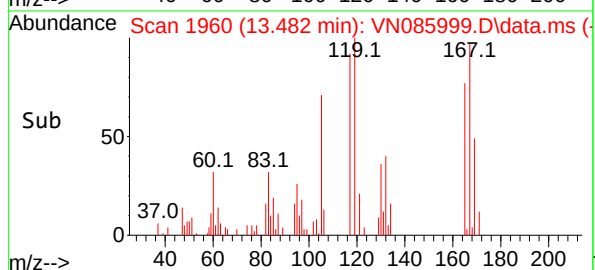
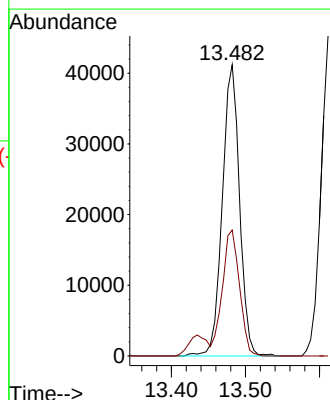
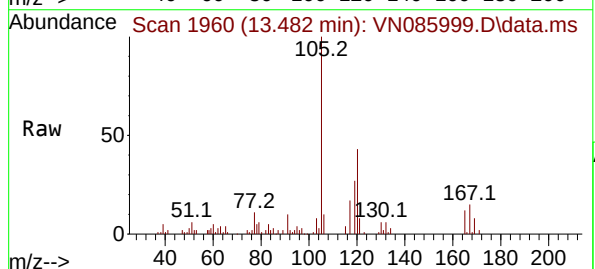
RT: 13.482 min Scan# 1960

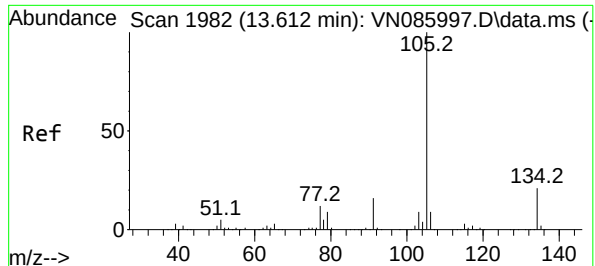
Delta R.T. 0.006 min

Lab File: VN085999.D

Acq: 18 Mar 2025 12:57

Tgt Ion:	105	Resp:	66424
Ion Ratio	Lower	Upper	
105	100		
120	43.2	21.9	65.8





#85

sec-Butylbenzene

Concen: 10.096 ug/l

RT: 13.611 min Scan# 1982

Delta R.T. -0.000 min

Lab File: VN085999.D

Acq: 18 Mar 2025 12:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion:105 Resp: 7327

Ion Ratio Lower Upper

105 100

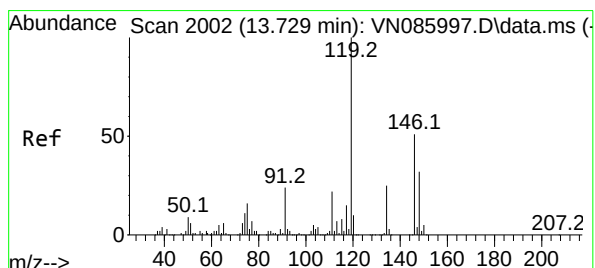
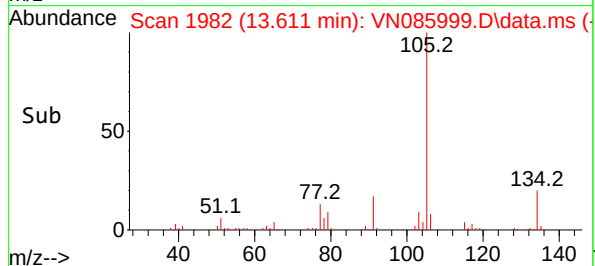
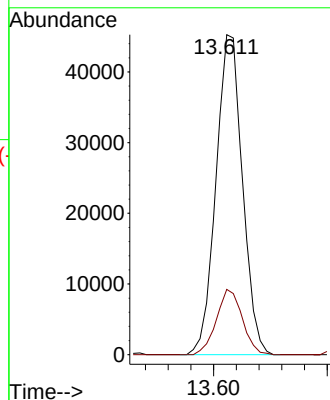
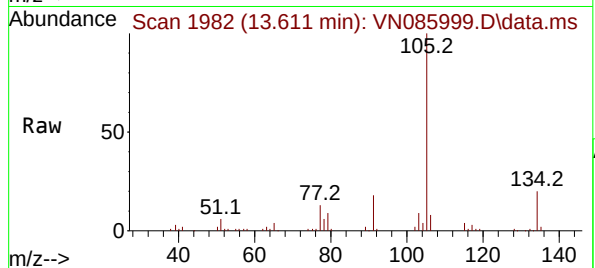
134 20.0 10.1 30.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#86

p-Isopropyltoluene

Concen: 9.874 ug/l

RT: 13.723 min Scan# 2001

Delta R.T. -0.006 min

Lab File: VN085999.D

Acq: 18 Mar 2025 12:57

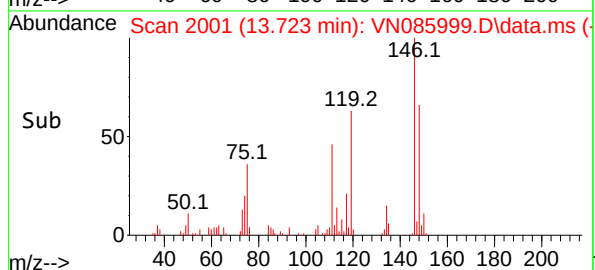
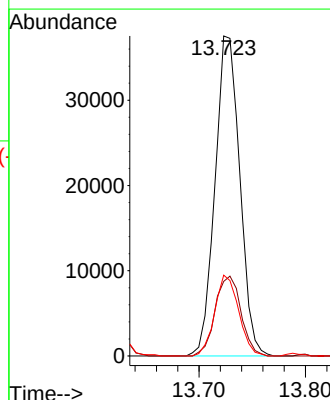
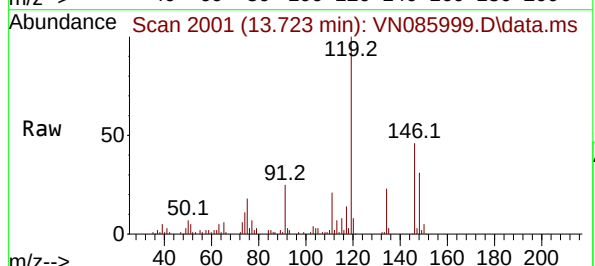
Tgt Ion:119 Resp: 60661

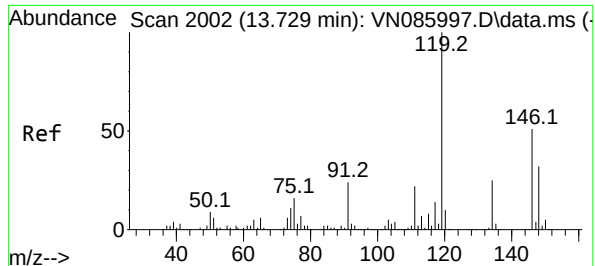
Ion Ratio Lower Upper

119 100

134 26.0 12.6 37.8

91 24.4 12.3 36.8





#87

1,3-Dichlorobenzene

Concen: 10.194 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.000 min

Lab File: VN085999.D

Acq: 18 Mar 2025 12:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

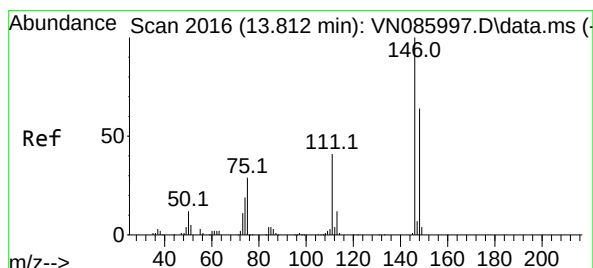
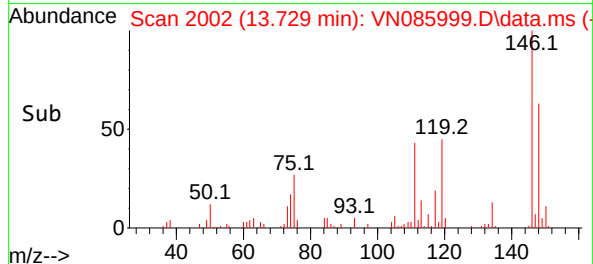
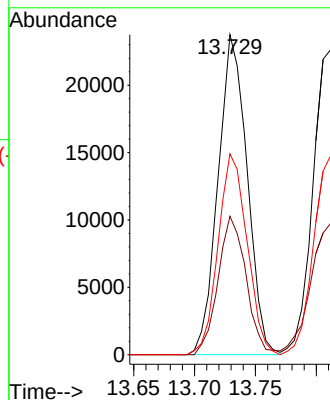
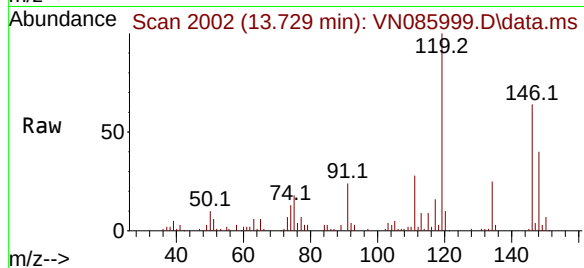
Tgt Ion:	146	Resp:	39474
Ion Ratio	Lower	Upper	
146	100		
111	41.8	21.2	63.6
148	62.6	31.8	95.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#88

1,4-Dichlorobenzene

Concen: 9.737 ug/l

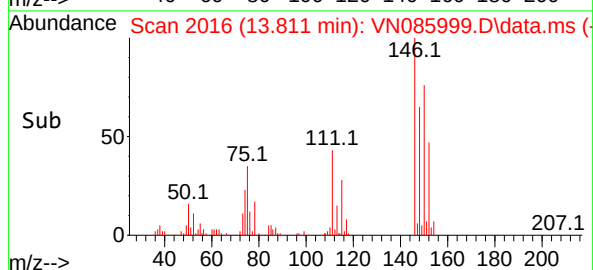
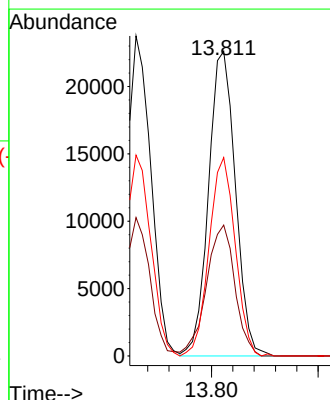
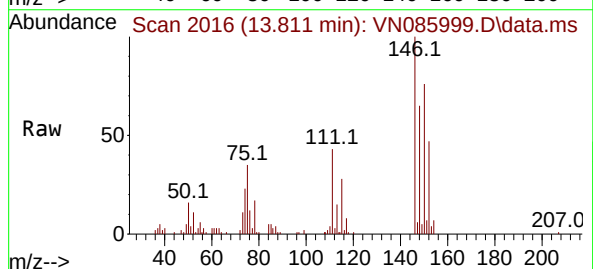
RT: 13.811 min Scan# 2016

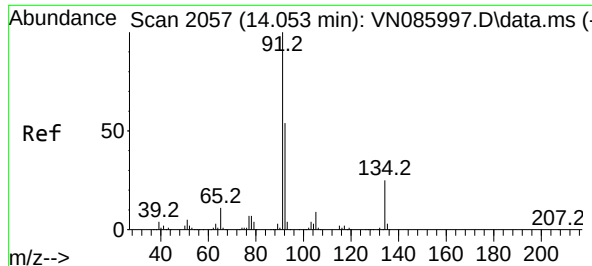
Delta R.T. -0.000 min

Lab File: VN085999.D

Acq: 18 Mar 2025 12:57

Tgt Ion:	146	Resp:	39616
Ion Ratio	Lower	Upper	
146	100		
111	45.3	20.4	61.3
148	63.4	32.1	96.5





#89

n-Butylbenzene

Concen: 9.376 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.000 min

Lab File: VN085999.D

Acq: 18 Mar 2025 12:57

Instrument :

MSVOA_N

ClientSampleId :

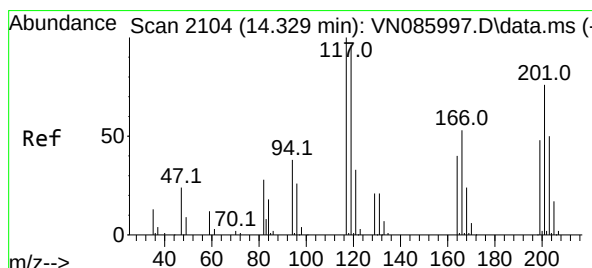
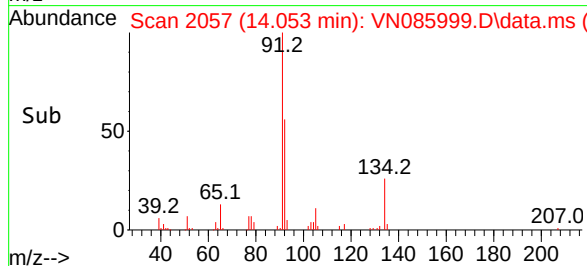
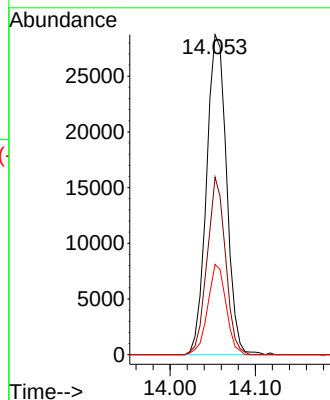
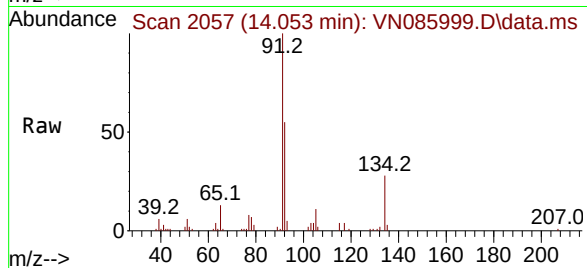
VSTDICC010

Tgt Ion:	91	Resp:	46910
Ion	Ratio	Lower	Upper
91	100		
92	50.9	26.9	80.6
134	25.9	13.0	39.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#90

Hexachloroethane

Concen: 9.464 ug/l

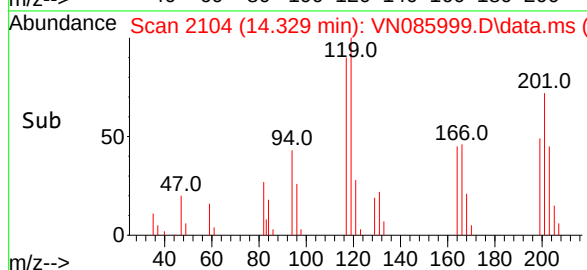
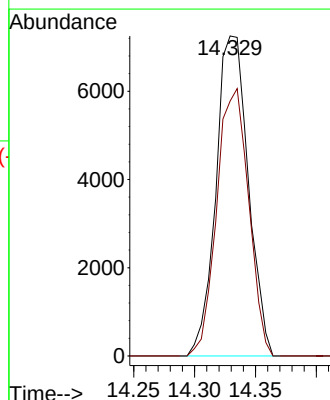
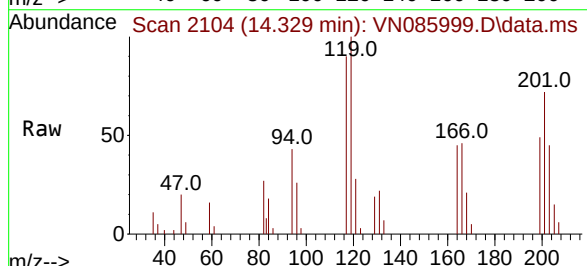
RT: 14.329 min Scan# 2104

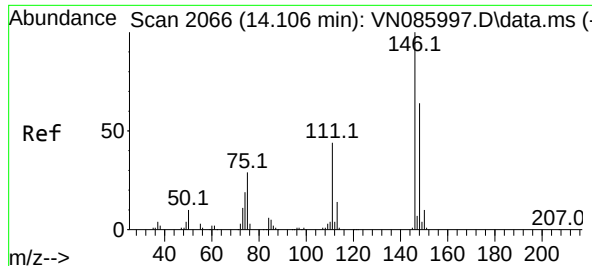
Delta R.T. -0.000 min

Lab File: VN085999.D

Acq: 18 Mar 2025 12:57

Tgt Ion:	117	Resp:	13417
Ion	Ratio	Lower	Upper
117	100		
201	82.2	39.1	117.3





#91

1,2-Dichlorobenzene

Concen: 9.805 ug/l

RT: 14.106 min Scan# 2066

Delta R.T. -0.000 min

Lab File: VN085999.D

Acq: 18 Mar 2025 12:57

Instrument :

MSVOA_N

ClientSampleId :

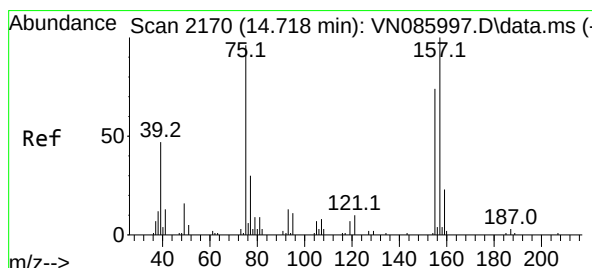
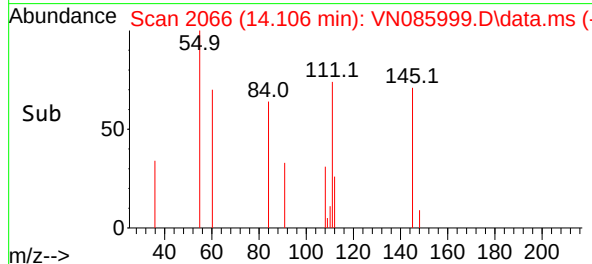
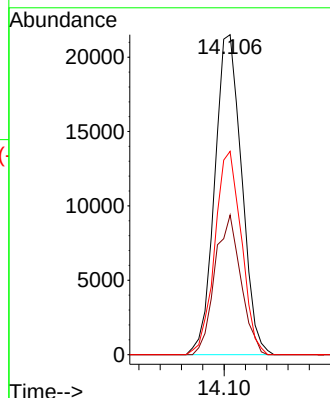
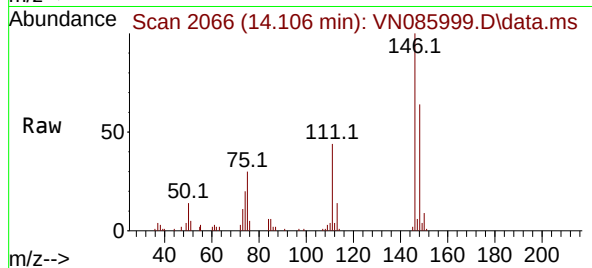
VSTDIC010

Tgt Ion:	146	Resp:	3774
Ion Ratio	Lower	Upper	
146	100		
111	42.1	22.3	66.8
148	62.6	32.1	96.5

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#92

1,2-Dibromo-3-Chloropropane

Concen: 11.520 ug/l

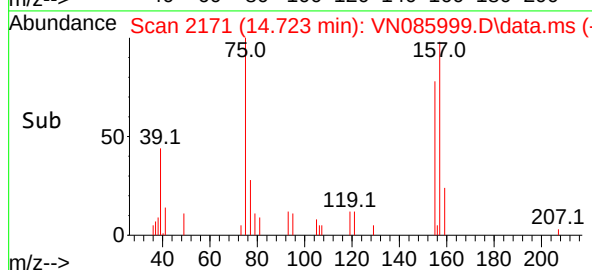
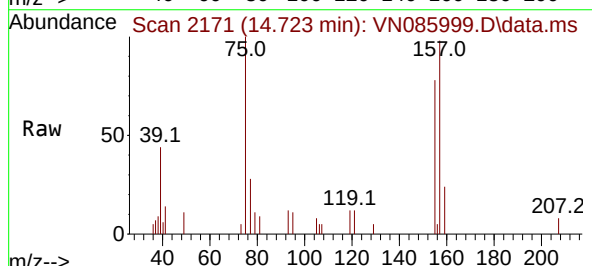
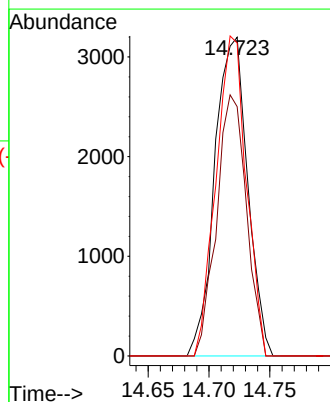
RT: 14.723 min Scan# 2171

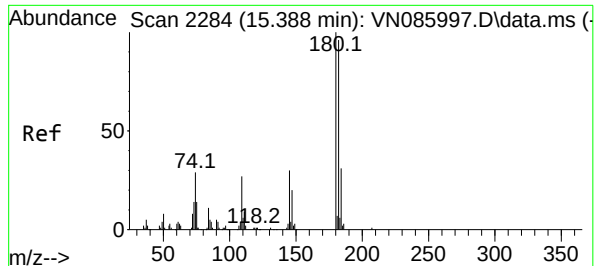
Delta R.T. 0.006 min

Lab File: VN085999.D

Acq: 18 Mar 2025 12:57

Tgt Ion:	75	Resp:	5994
Ion Ratio	Lower	Upper	
75	100		
155	74.4	41.0	123.0
157	92.8	53.7	161.1





#93

1,2,4-Trichlorobenzene

Concen: 9.497 ug/l

RT: 15.388 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN085999.D

Acq: 18 Mar 2025 12:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion:180 Resp: 1838

Ion Ratio Lower Upper

180 100

182 94.9 47.0 141.0

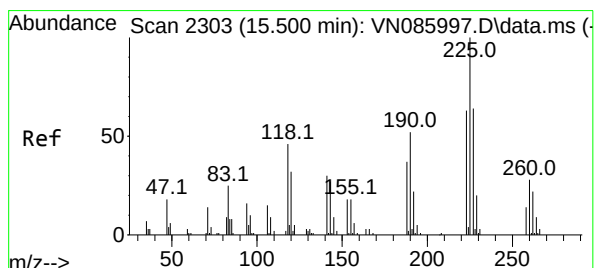
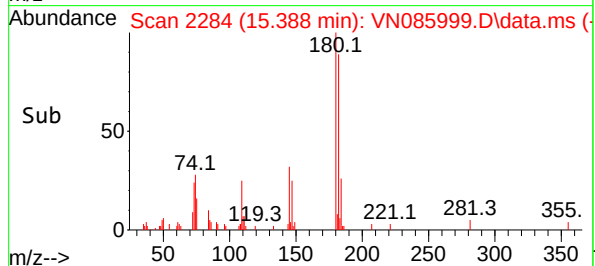
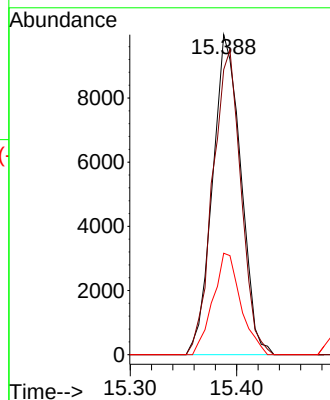
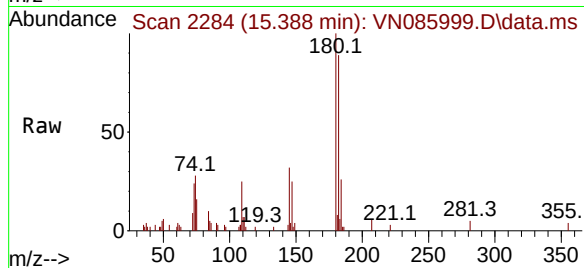
145 31.2 15.5 46.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#94

Hexachlorobutadiene

Concen: 10.056 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. -0.000 min

Lab File: VN085999.D

Acq: 18 Mar 2025 12:57

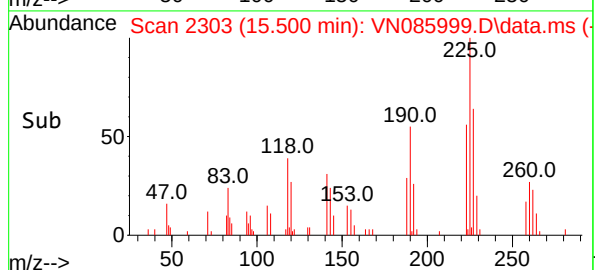
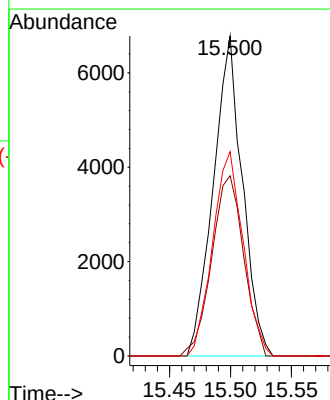
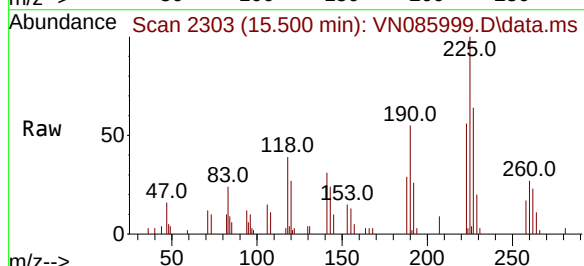
Tgt Ion:225 Resp: 11293

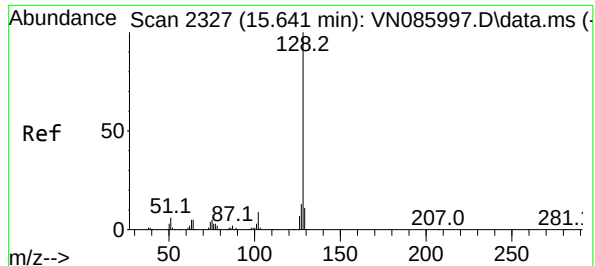
Ion Ratio Lower Upper

225 100

223 61.8 31.3 93.9

227 66.7 32.1 96.3





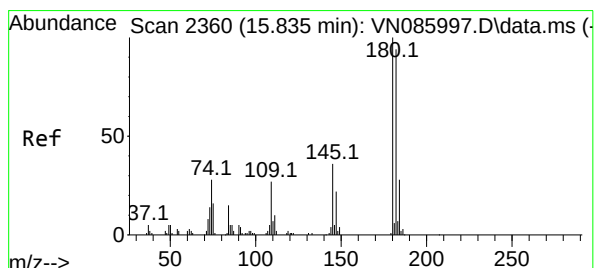
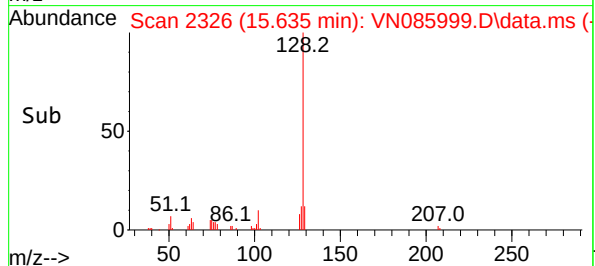
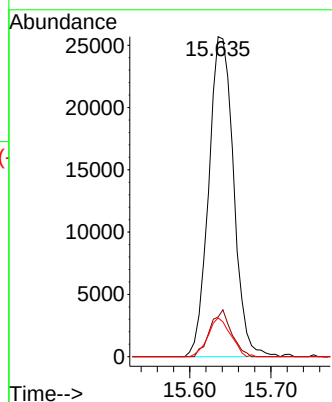
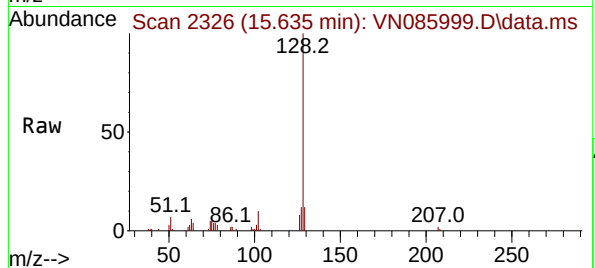
#95
Naphthalene
Concen: 9.754 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. -0.006 min
Lab File: VN085999.D
Acq: 18 Mar 2025 12:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion:128 Resp: 54670
Ion Ratio Lower Upper
128 100
127 12.6 10.2 15.4
129 11.0 9.0 13.6

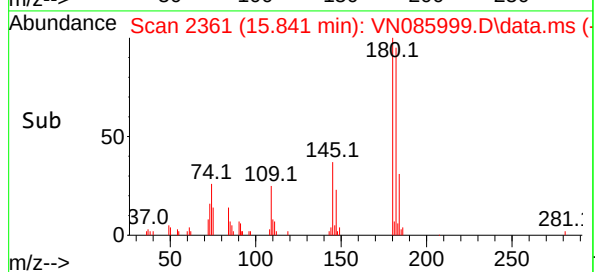
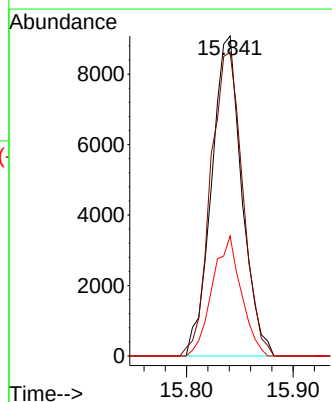
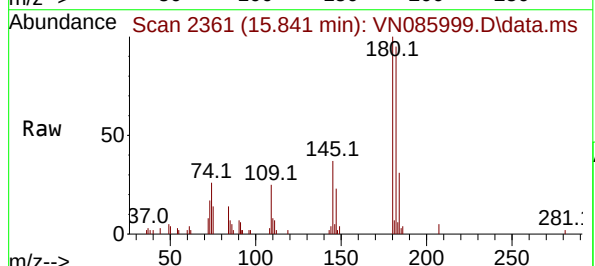
Manual Integrations
APPROVED

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



#96
1,2,3-Trichlorobenzene
Concen: 9.753 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. 0.006 min
Lab File: VN085999.D
Acq: 18 Mar 2025 12:57

Tgt Ion:180 Resp: 17914
Ion Ratio Lower Upper
180 100
182 100.4 47.5 142.5
145 35.6 17.7 53.1



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031825\
 Data File : VN086000.D
 Acq On : 18 Mar 2025 13:21
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC005

Quant Time: Mar 19 02:56:20 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 19 02:30:27 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

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

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	163796	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	271211	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	232728	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	108673	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	12074	5.383	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	10.760%#		
35) Dibromofluoromethane	8.165	113	9983	5.274	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	10.540%#		
50) Toluene-d8	10.565	98	32999	4.803	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	9.600%#		
62) 4-Bromofluorobenzene	12.847	95	10615	4.332	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	8.660%#		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	11420	5.263	ug/l	92
3) Chloromethane	2.359	50	10021	5.268	ug/l	99
4) Vinyl Chloride	2.506	62	10389	5.341	ug/l	100
5) Bromomethane	2.942	94	7641	5.767	ug/l	94
6) Chloroethane	3.106	64	6607	5.384	ug/l	94
7) Trichlorofluoromethane	3.489	101	18136	5.187	ug/l	94
8) Diethyl Ether	3.965	74	5061	4.728	ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.371	101	9669	5.203	ug/l	97
10) Methyl Iodide	4.589	142	12547	5.181	ug/l	94
11) Tert butyl alcohol	5.518	59	8843	27.847	ug/l #	93
12) 1,1-Dichloroethene	4.336	96	9006	5.367	ug/l	91
13) Acrolein	4.183	56	9429	27.839	ug/l	97
14) Allyl chloride	5.018	41	11201	5.350	ug/l	95
15) Acrylonitrile	5.724	53	22174	26.440	ug/l	98
16) Acetone	4.436	43	17456	25.474	ug/l	96
17) Carbon Disulfide	4.706	76	28904	5.237	ug/l	98
18) Methyl Acetate	5.024	43	8878	5.237	ug/l	96
19) Methyl tert-butyl Ether	5.794	73	26823	4.878	ug/l	94
20) Methylene Chloride	5.277	84	10471	5.223	ug/l	86
21) trans-1,2-Dichloroethene	5.783	96	9241	5.039	ug/l	85
22) Diisopropyl ether	6.671	45	22716	5.092	ug/l	91
23) Vinyl Acetate	6.606	43	83783	24.772	ug/l	98
24) 1,1-Dichloroethane	6.571	63	16897	5.151	ug/l	99
25) 2-Butanone	7.482	43	26095	26.392	ug/l	96
26) 2,2-Dichloropropane	7.488	77	16658	5.274	ug/l	97
27) cis-1,2-Dichloroethene	7.482	96	10741	5.154	ug/l	98
28) Bromochloromethane	7.812	49	7039	5.064	ug/l #	99
29) Tetrahydrofuran	7.847	42	16104	26.382	ug/l	97
30) Chloroform	7.965	83	18814	5.188	ug/l	95
31) Cyclohexane	8.247	56	15682	5.611	ug/l	87
32) 1,1,1-Trichloroethane	8.165	97	17962	5.233	ug/l	92
36) 1,1-Dichloropropene	8.365	75	12303	4.936	ug/l	96
37) Ethyl Acetate	7.565	43	11164	5.309	ug/l	98
38) Carbon Tetrachloride	8.359	117	16628	5.074	ug/l	99
39) Methylcyclohexane	9.600	83	11562	4.675	ug/l #	86
40) Benzene	8.606	78	39414	5.037	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031825\
 Data File : VN086000.D
 Acq On : 18 Mar 2025 13:21
 Operator : JC\MD
 Sample : VSTDIC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Manual Integrations APPROVED

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

Quant Time: Mar 19 02:56:20 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 19 02:30:27 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.782	41	5095	5.074	ug/l	94
42) 1,2-Dichloroethane	8.671	62	14311	5.249	ug/l	97
43) Isopropyl Acetate	8.688	43	22794	4.992	ug/l #	87
44) Trichloroethene	9.353	130	10304	5.081	ug/l	93
45) 1,2-Dichloropropane	9.618	63	9026	5.071	ug/l	100
46) Dibromomethane	9.706	93	7270	5.194	ug/l	95
47) Bromodichloromethane	9.888	83	15203	5.197	ug/l	93
48) Methyl methacrylate	9.682	41	6970	4.635	ug/l	95
49) 1,4-Dioxane	9.700	88	3831	107.772	ug/l #	89
51) 4-Methyl-2-Pentanone	10.441	43	50081	24.920	ug/l	95
52) Toluene	10.629	92	23224	4.836	ug/l	99
53) t-1,3-Dichloropropene	10.835	75	13594	4.785	ug/l	100
54) cis-1,3-Dichloropropene	10.312	75	14556	4.856	ug/l	98
55) 1,1,2-Trichloroethane	11.012	97	9178	5.007	ug/l	95
56) Ethyl methacrylate	10.870	69	11206	4.940	ug/l	93
57) 1,3-Dichloropropane	11.165	76	15126	4.858	ug/l	98
58) 2-Chloroethyl Vinyl ether	10.159	63	25811	31.548	ug/l	100
59) 2-Hexanone	11.194	43	35455	24.217	ug/l	96
60) Dibromochloromethane	11.359	129	11813	4.994	ug/l	99
61) 1,2-Dibromoethane	11.465	107	9143	4.859	ug/l	90
64) Tetrachloroethene	11.106	164	9809	5.284	ug/l	93
65) Chlorobenzene	11.888	112	26908	5.053	ug/l	93
66) 1,1,1,2-Tetrachloroethane	11.959	131	10358	5.232	ug/l	96
67) Ethyl Benzene	11.965	91	40845	4.795	ug/l	99
68) m/p-Xylenes	12.065	106	30743	9.182	ug/l	98
69) o-Xylene	12.400	106	13604	4.427	ug/l	94
70) Styrene	12.406	104	24028	4.578	ug/l	99
71) Bromoform	12.570	173	8257	4.989	ug/l #	95
73) Isopropylbenzene	12.694	105	35476	4.780	ug/l	99
74) N-amyl acetate	12.494	43	11933	4.806	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.935	83	13700	5.457	ug/l	94
76) 1,2,3-Trichloropropane	12.988	75	13734m	5.543	ug/l	
77) Bromobenzene	12.976	156	10805	5.222	ug/l	94
78) n-propylbenzene	13.035	91	40052	4.766	ug/l	98
79) 2-Chlorotoluene	13.123	91	27970	5.011	ug/l	98
80) 1,3,5-Trimethylbenzene	13.170	105	28674	4.576	ug/l	97
81) trans-1,4-Dichloro-2-b...	12.741	75	4314	4.688	ug/l	96
82) 4-Chlorotoluene	13.217	91	27891	4.859	ug/l	98
83) tert-Butylbenzene	13.435	119	24760	4.621	ug/l	98
84) 1,2,4-Trimethylbenzene	13.482	105	29165	4.615	ug/l	100
85) sec-Butylbenzene	13.617	105	32694	4.677	ug/l	97
86) p-Isopropyltoluene	13.729	119	26188	4.425	ug/l	97
87) 1,3-Dichlorobenzene	13.735	146	18666	5.004	ug/l	97
88) 1,4-Dichlorobenzene	13.806	146	20725	5.288	ug/l	96
89) n-Butylbenzene	14.059	91	21529	4.468	ug/l	96
90) Hexachloroethane	14.335	117	7037	5.154	ug/l	95
91) 1,2-Dichlorobenzene	14.106	146	18733	5.052	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.717	75	2714	5.415	ug/l	93
93) 1,2,4-Trichlorobenzene	15.394	180	9252	4.962	ug/l	95
94) Hexachlorobutadiene	15.500	225	5668	5.240	ug/l	97
95) Naphthalene	15.641	128	24023	4.450	ug/l	100
96) 1,2,3-Trichlorobenzene	15.841	180	8594	4.858	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031825\
Data File : VN086000.D
Acq On : 18 Mar 2025 13:21
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 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025

Quant Time: Mar 19 02:56:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 19 02:30:27 2025
Response via : Initial Calibration

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

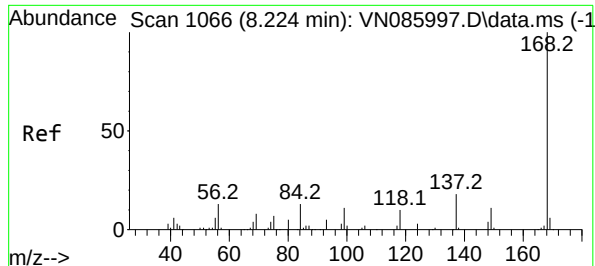
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

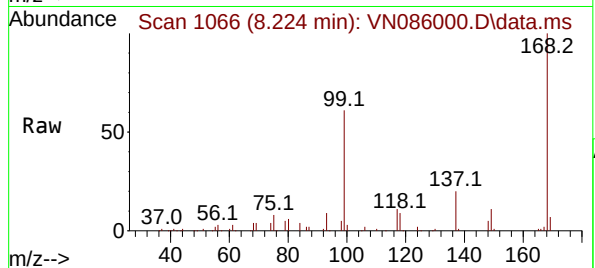
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN086000.D
Acq: 18 Mar 2025 13:21

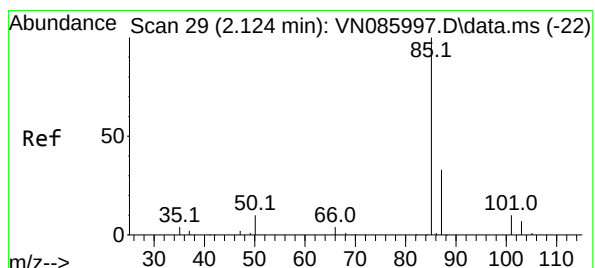
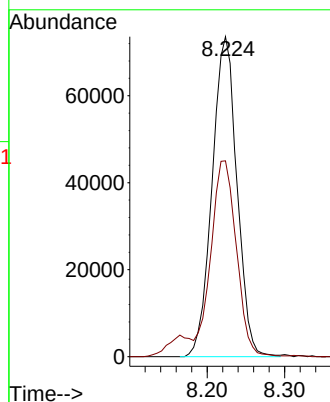
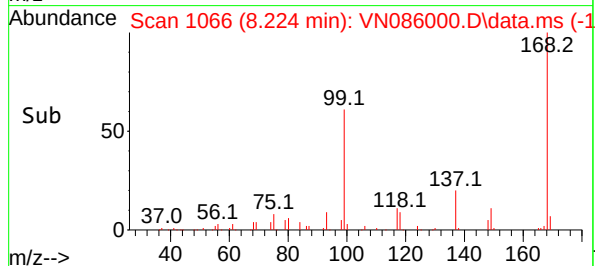
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005



Tgt Ion:168 Resp: 163790
Ion Ratio Lower Upper
168 100
99 60.9 49.4 74.2

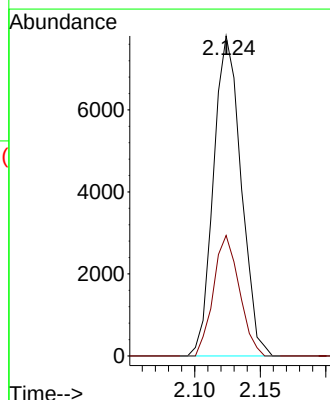
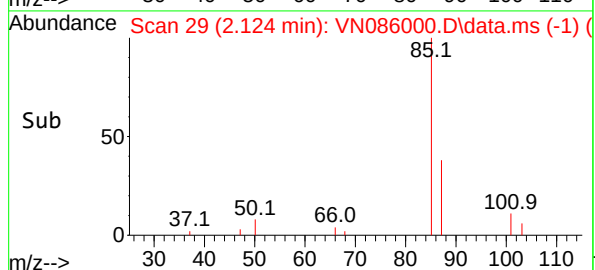
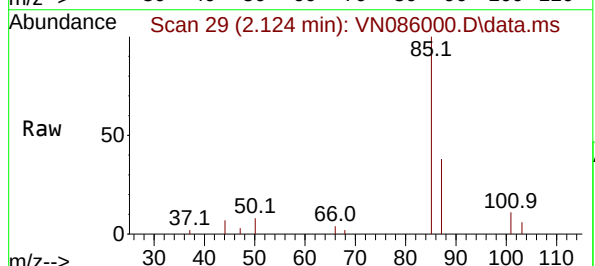
Manual Integrations
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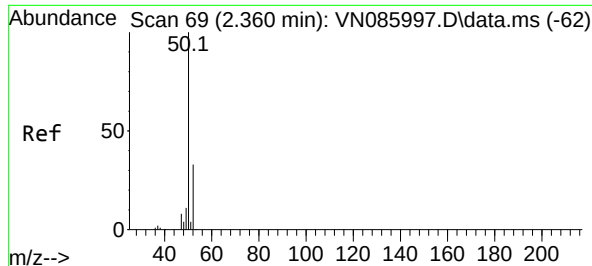
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#2
Dichlorodifluoromethane
Concen: 5.263 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN086000.D
Acq: 18 Mar 2025 13:21

Tgt Ion: 85 Resp: 11420
Ion Ratio Lower Upper
85 100
87 37.7 16.5 49.5





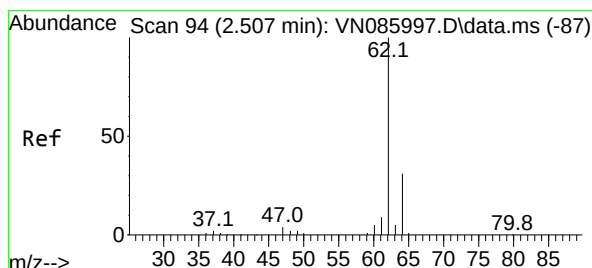
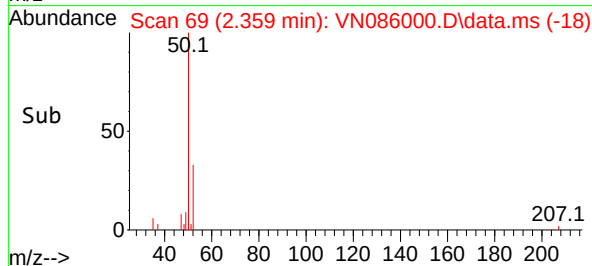
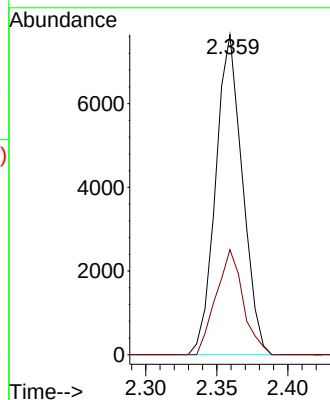
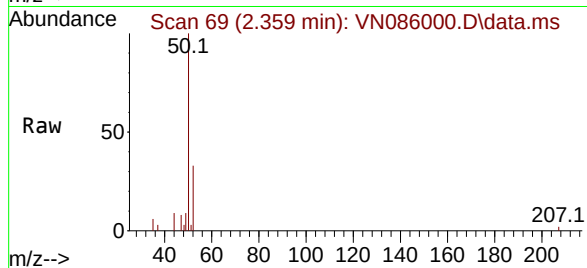
#3
Chloromethane
Concen: 5.268 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN086000.D
Acq: 18 Mar 2025 13:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 50 Resp: 1002
Ion Ratio Lower Upper
50 100
52 32.8 26.0 39.0

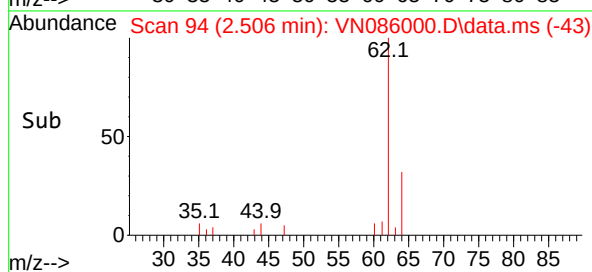
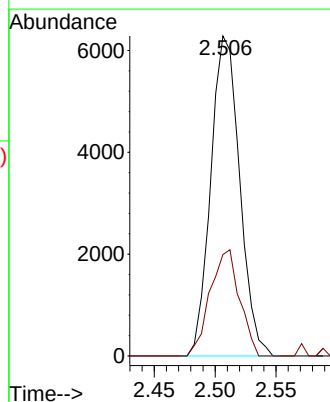
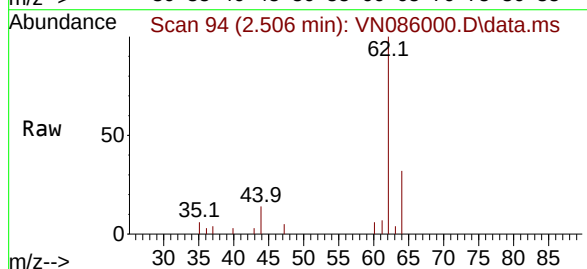
Manual Integrations
APPROVED

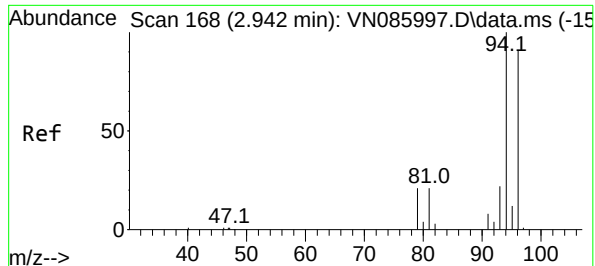
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#4
Vinyl Chloride
Concen: 5.341 ug/l
RT: 2.506 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN086000.D
Acq: 18 Mar 2025 13:21

Tgt Ion: 62 Resp: 10389
Ion Ratio Lower Upper
62 100
64 31.7 25.2 37.8





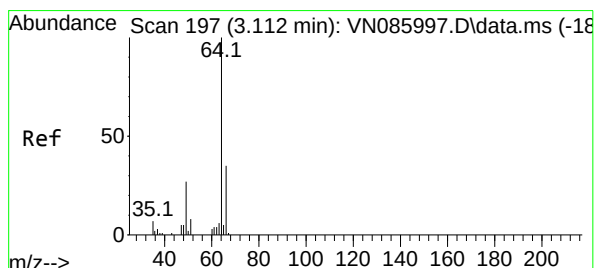
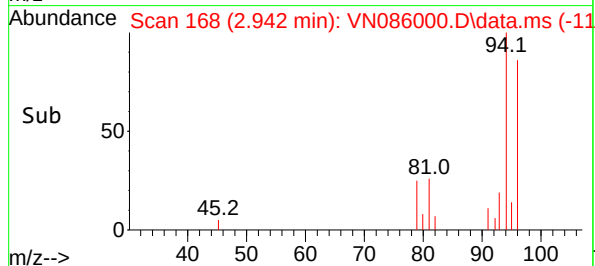
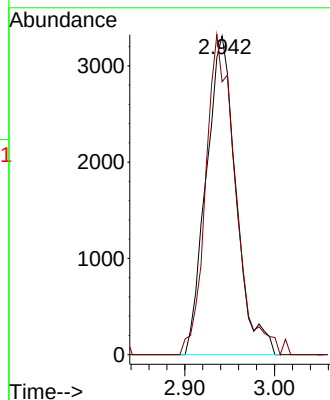
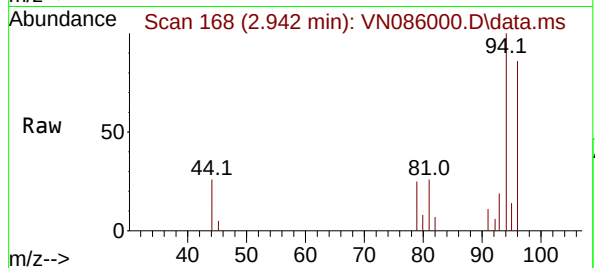
#5
Bromomethane
Concen: 5.767 ug/l
RT: 2.942 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086000.D
Acq: 18 Mar 2025 13:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 94 Resp: 764
Ion Ratio Lower Upper
94 100
96 85.6 72.8 109.2

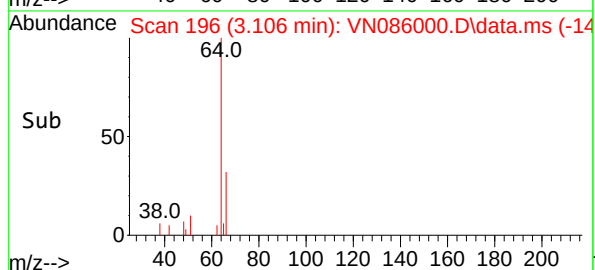
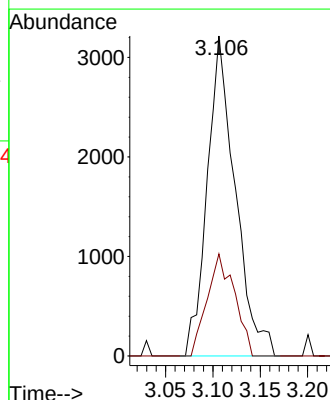
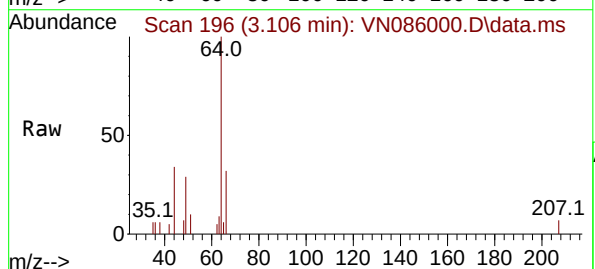
Manual Integrations
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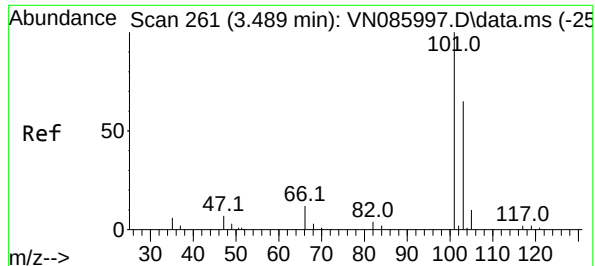
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#6
Chloroethane
Concen: 5.384 ug/l
RT: 3.106 min Scan# 196
Delta R.T. -0.006 min
Lab File: VN086000.D
Acq: 18 Mar 2025 13:21

Tgt Ion: 64 Resp: 6607
Ion Ratio Lower Upper
64 100
66 31.9 28.3 42.5





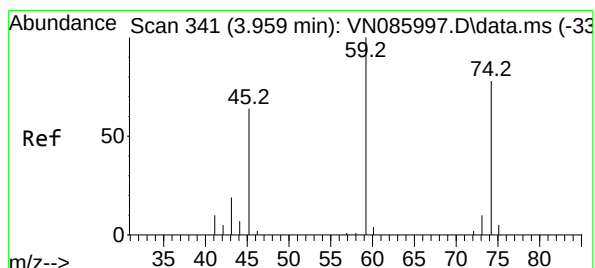
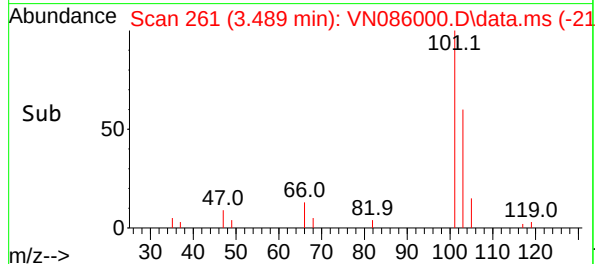
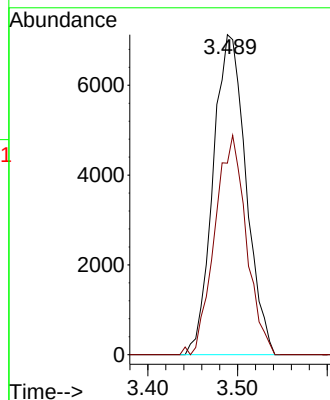
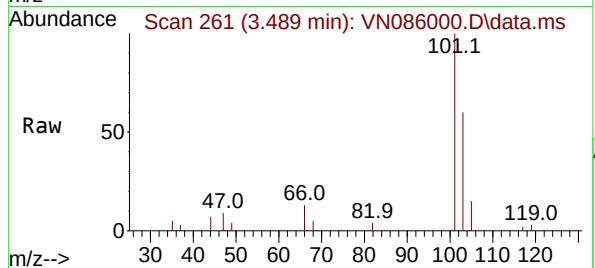
#7
Trichlorofluoromethane
Concen: 5.187 ug/l
RT: 3.489 min Scan# 261
Delta R.T. -0.000 min
Lab File: VN086000.D
Acq: 18 Mar 2025 13:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion:101 Resp: 1813
Ion Ratio Lower Upper
101 100
103 59.8 51.7 77.5

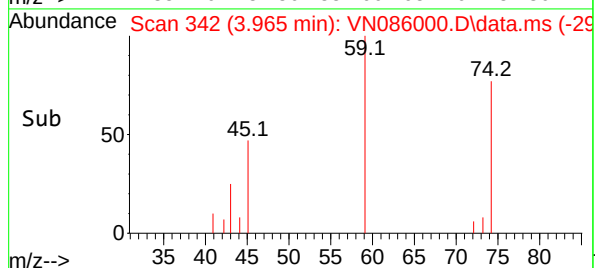
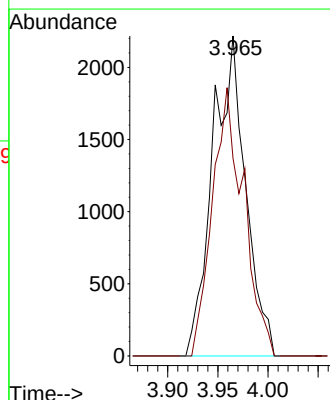
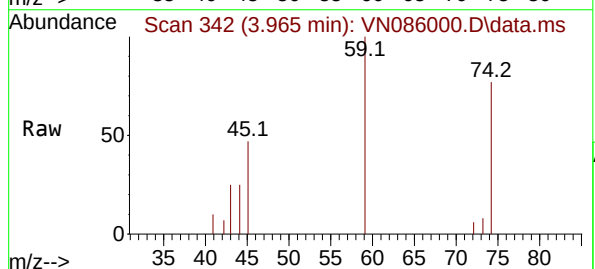
Manual Integrations
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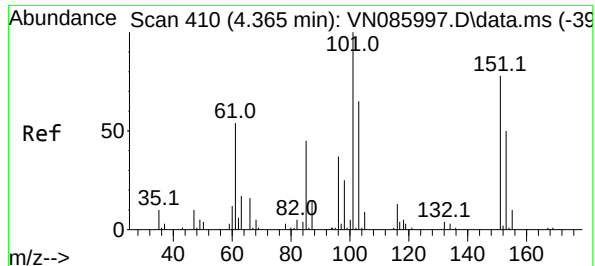
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#8
Diethyl Ether
Concen: 4.728 ug/l
RT: 3.965 min Scan# 342
Delta R.T. 0.006 min
Lab File: VN086000.D
Acq: 18 Mar 2025 13:21

Tgt Ion: 74 Resp: 5061
Ion Ratio Lower Upper
74 100
45 79.9 38.0 113.9





#9

1,1,2-Trichlorotrifluoroethane

Concen: 5.203 ug/l

RT: 4.371 min Scan# 410

Delta R.T. 0.006 min

Lab File: VN086000.D

Acq: 18 Mar 2025 13:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

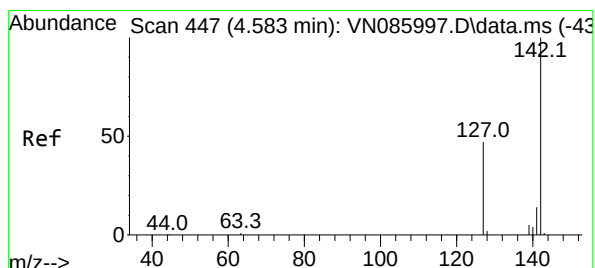
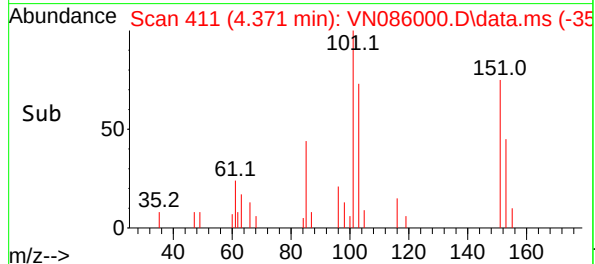
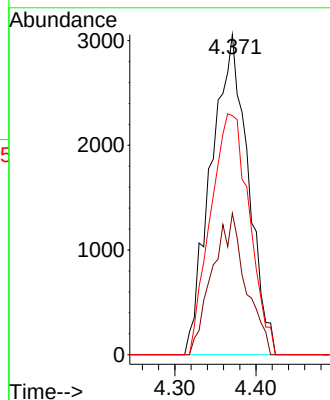
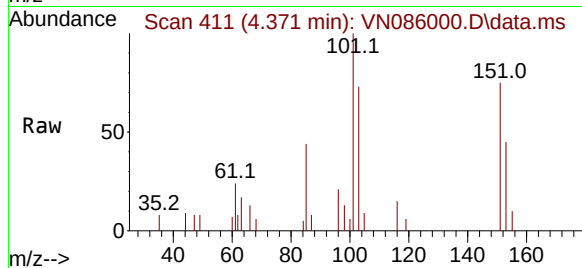
Tgt Ion:	101	Resp:	966
Ion	Ratio	Lower	Upper
101	100		
85	40.0	36.5	54.7
151	79.0	63.4	95.0

Manual Integrations

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Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#10

Methyl Iodide

Concen: 5.181 ug/l

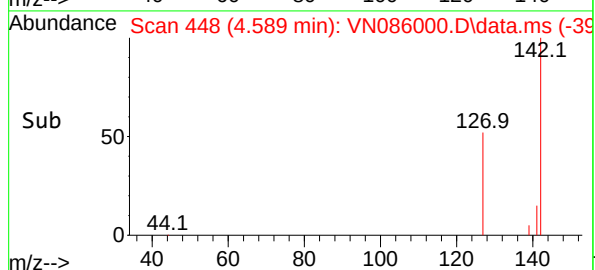
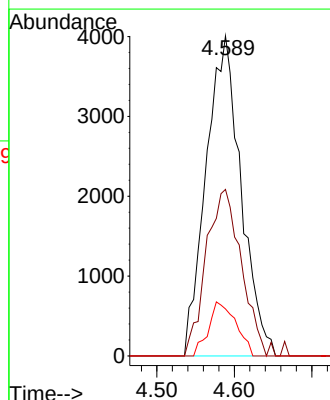
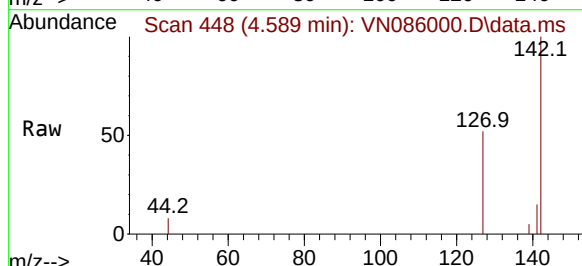
RT: 4.589 min Scan# 448

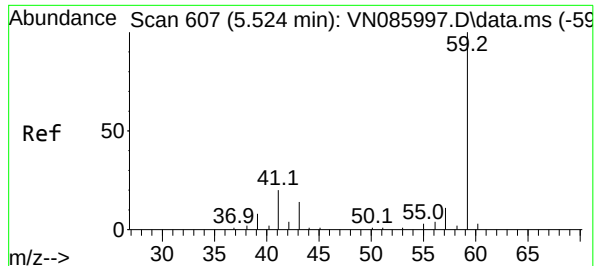
Delta R.T. 0.006 min

Lab File: VN086000.D

Acq: 18 Mar 2025 13:21

Tgt Ion:	142	Resp:	12547
Ion	Ratio	Lower	Upper
142	100		
127	52.0	37.5	56.3
141	14.7	11.0	16.6





#11

Tert butyl alcohol

Concen: 27.847 ug/l

RT: 5.518 min Scan# 607

Delta R.T. -0.006 min

Lab File: VN086000.D

Acq: 18 Mar 2025 13:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 59 Resp: 884

Ion Ratio Lower Upper

59 100

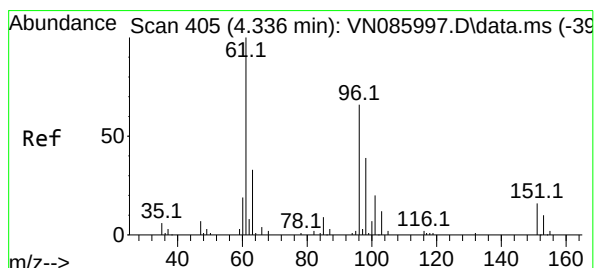
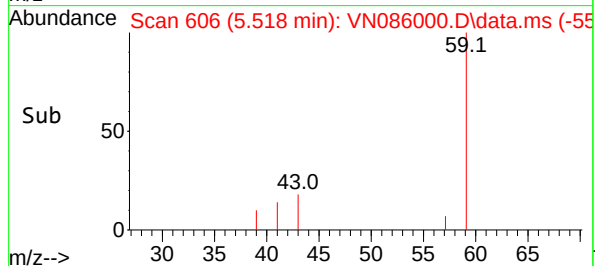
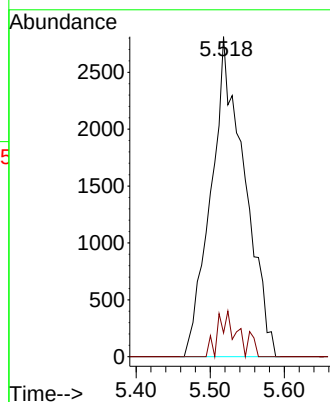
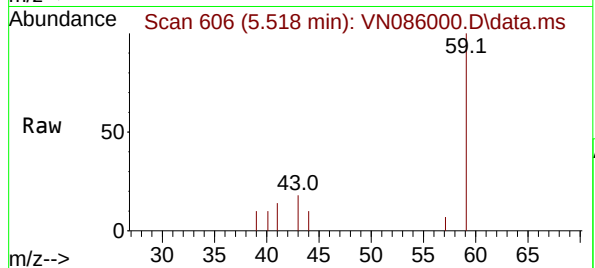
57 7.1 7.9 11.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#12

1,1-Dichloroethene

Concen: 5.367 ug/l

RT: 4.336 min Scan# 405

Delta R.T. -0.000 min

Lab File: VN086000.D

Acq: 18 Mar 2025 13:21

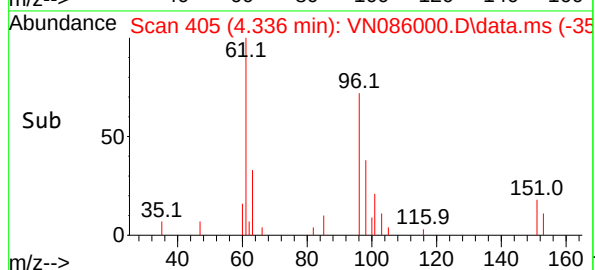
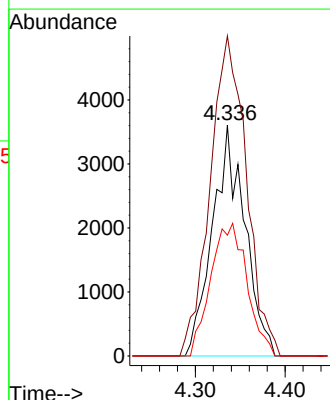
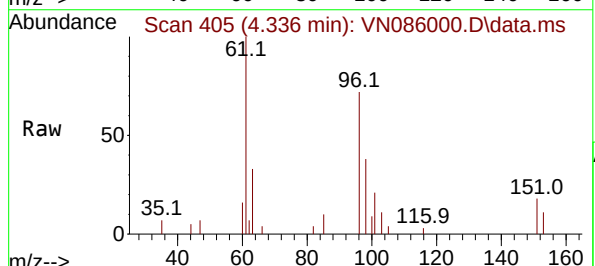
Tgt Ion: 96 Resp: 9006

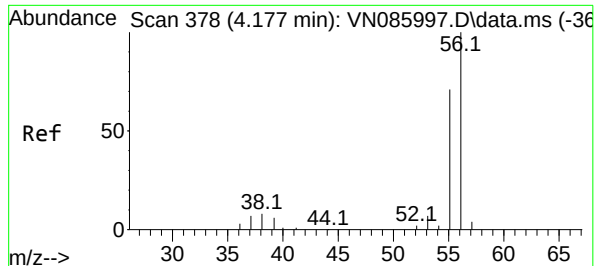
Ion Ratio Lower Upper

96 100

61 138.6 120.5 180.7

98 52.3 47.4 71.0





#13

Acrolein

Concen: 27.839 ug/l

RT: 4.183 min Scan# 31

Delta R.T. 0.006 min

Lab File: VN086000.D

Acq: 18 Mar 2025 13:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 56 Resp: 9429

Ion Ratio Lower Upper

56 100

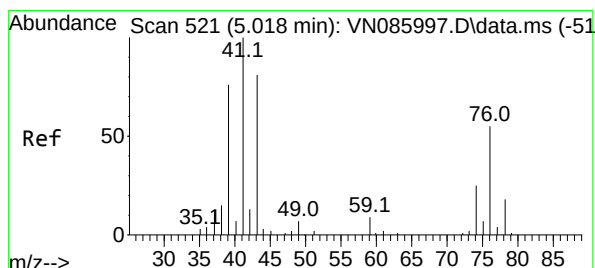
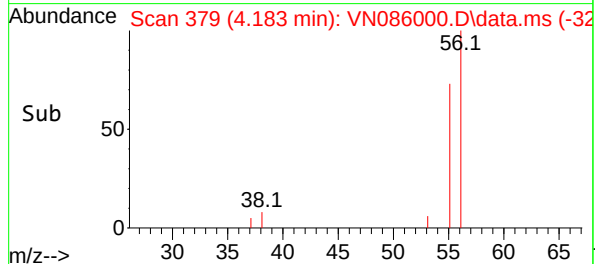
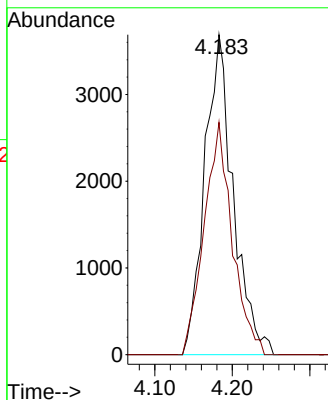
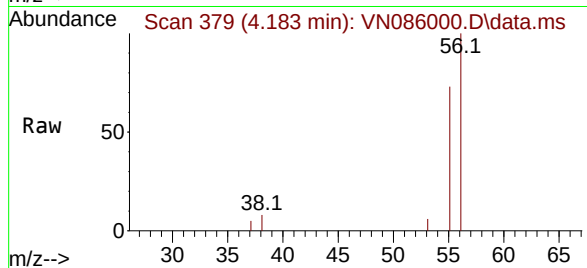
55 71.5 55.1 82.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#14

Allyl chloride

Concen: 5.350 ug/l

RT: 5.018 min Scan# 521

Delta R.T. -0.000 min

Lab File: VN086000.D

Acq: 18 Mar 2025 13:21

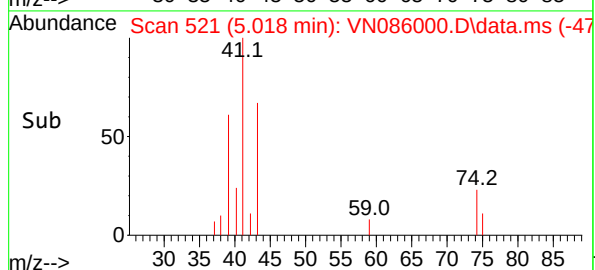
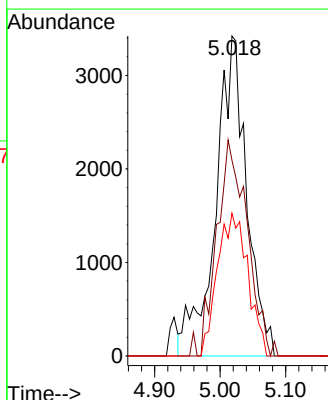
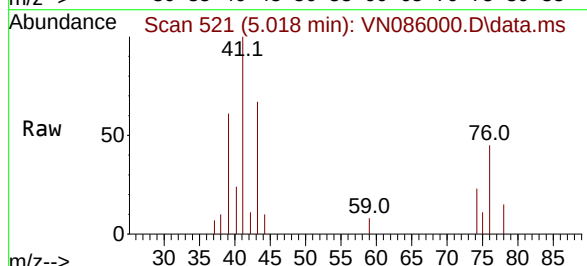
Tgt Ion: 41 Resp: 11201

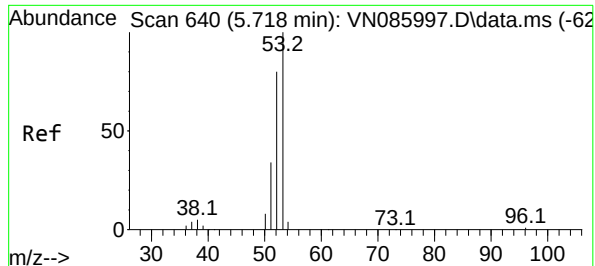
Ion Ratio Lower Upper

41 100

39 66.6 55.5 83.3

76 43.8 39.1 58.7





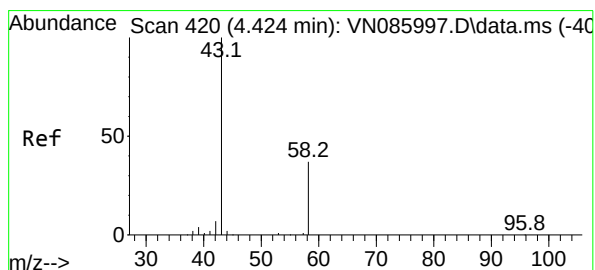
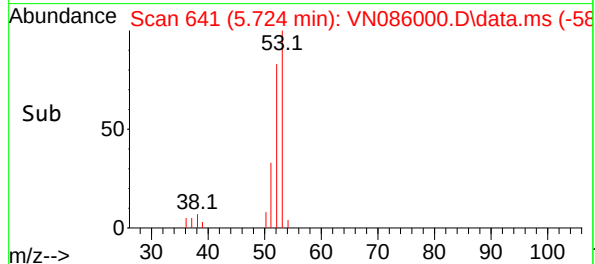
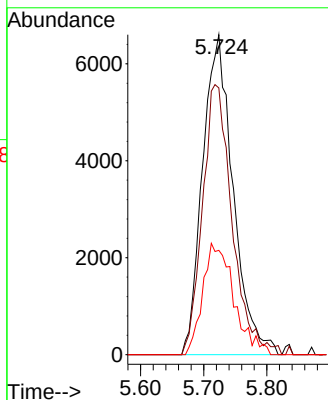
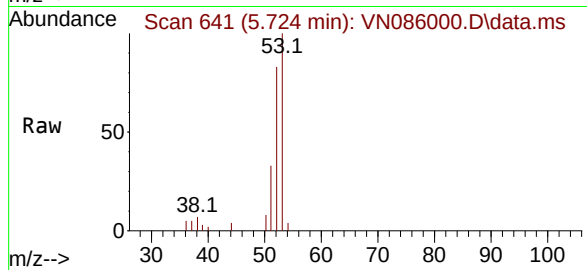
#15
Acrylonitrile
Concen: 26.440 ug/l
RT: 5.724 min Scan# 641
Delta R.T. 0.006 min
Lab File: VN086000.D
Acq: 18 Mar 2025 13:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion: 53 Resp: 22174
Ion Ratio Lower Upper
53 100
52 81.9 63.9 95.9
51 35.5 27.1 40.7

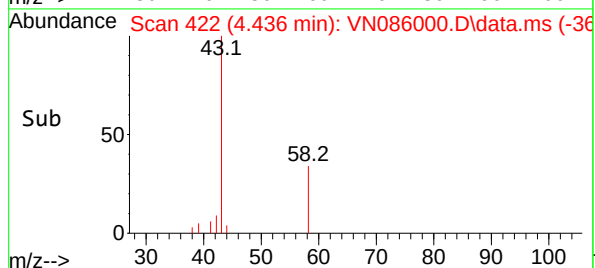
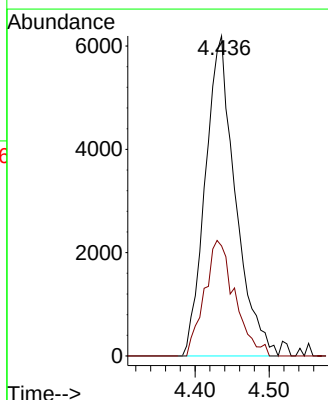
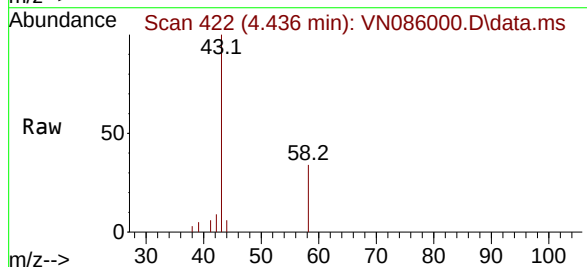
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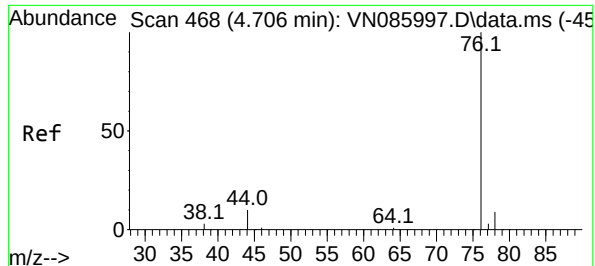
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#16
Acetone
Concen: 25.474 ug/l
RT: 4.436 min Scan# 422
Delta R.T. 0.011 min
Lab File: VN086000.D
Acq: 18 Mar 2025 13:21

Tgt Ion: 43 Resp: 17456
Ion Ratio Lower Upper
43 100
58 34.4 29.4 44.2





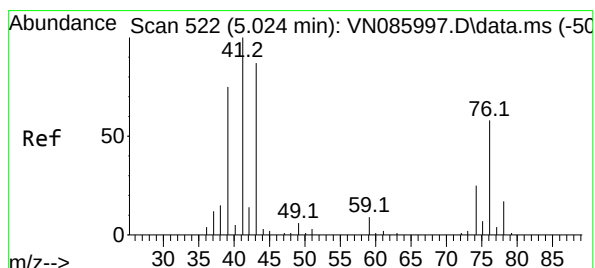
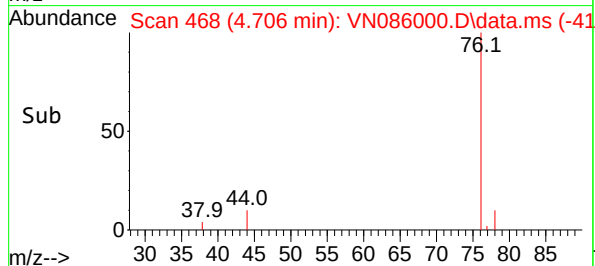
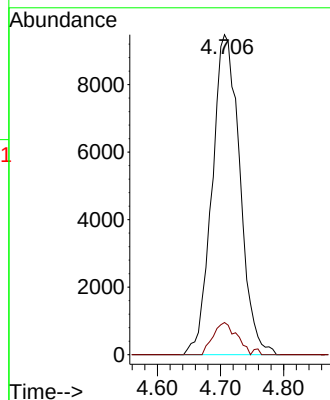
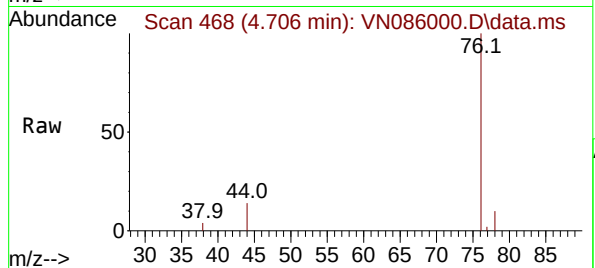
#17
Carbon Disulfide
Concen: 5.237 ug/l
RT: 4.706 min Scan# 468
Delta R.T. -0.000 min
Lab File: VN086000.D
Acq: 18 Mar 2025 13:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 76 Resp: 28904
Ion Ratio Lower Upper
76 100
78 10.0 7.4 11.2

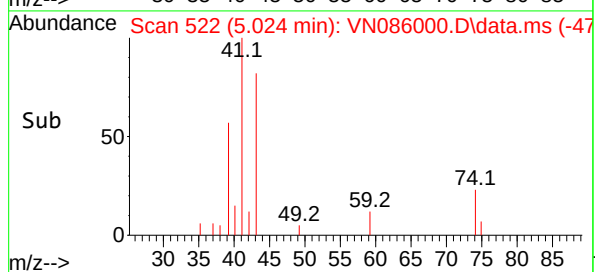
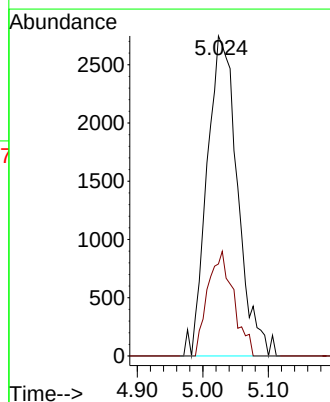
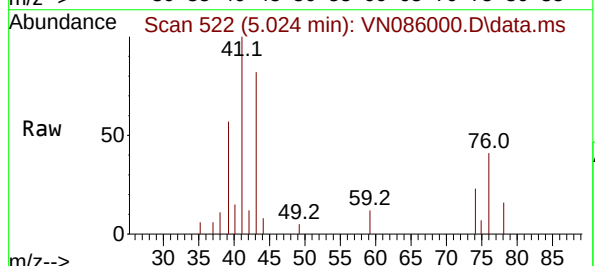
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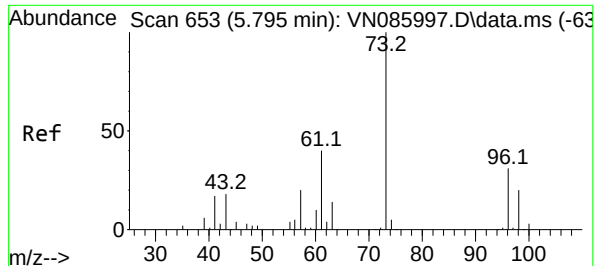
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#18
Methyl Acetate
Concen: 5.237 ug/l
RT: 5.024 min Scan# 522
Delta R.T. -0.000 min
Lab File: VN086000.D
Acq: 18 Mar 2025 13:21

Tgt Ion: 43 Resp: 8878
Ion Ratio Lower Upper
43 100
74 27.6 23.9 35.9





#19

Methyl tert-butyl Ether

Concen: 4.878 ug/l

RT: 5.794 min Scan# 61

Delta R.T. -0.000 min

Lab File: VN086000.D

Acq: 18 Mar 2025 13:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 73 Resp: 2682

Ion Ratio Lower Upper

73 100

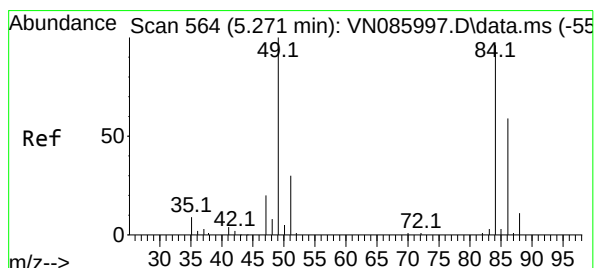
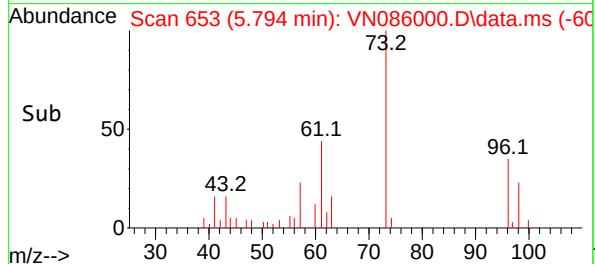
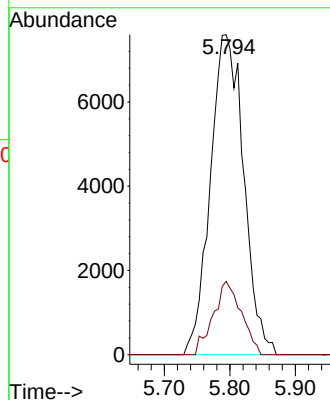
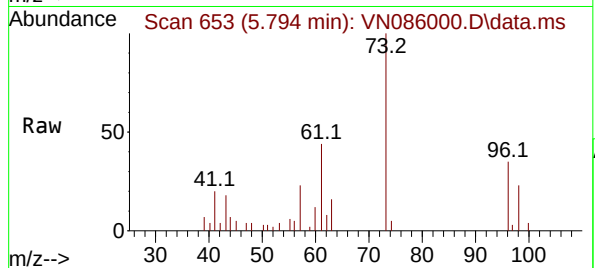
57 22.9 16.1 24.1

Manual Integrations

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Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#20

Methylene Chloride

Concen: 5.223 ug/l

RT: 5.277 min Scan# 565

Delta R.T. 0.006 min

Lab File: VN086000.D

Acq: 18 Mar 2025 13:21

Tgt Ion: 84 Resp: 10471

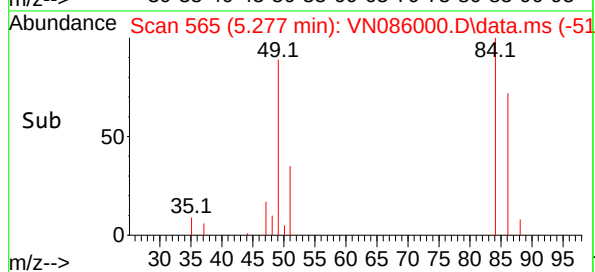
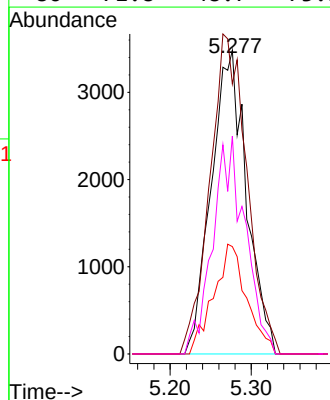
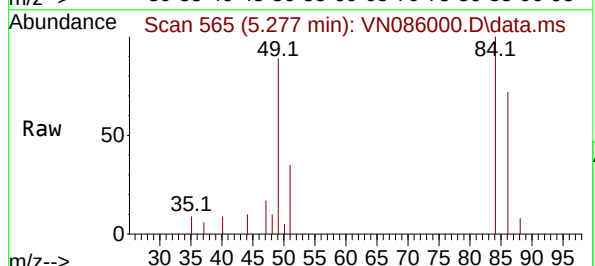
Ion Ratio Lower Upper

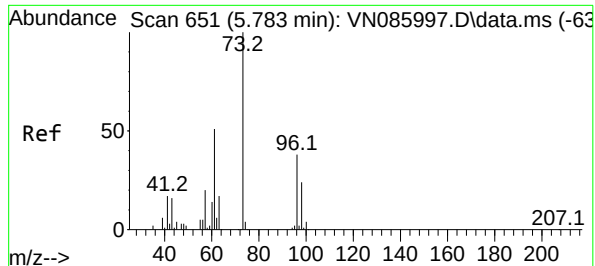
84 100

49 88.9 83.3 124.9

51 35.4 24.8 37.2

86 71.8 48.7 73.1





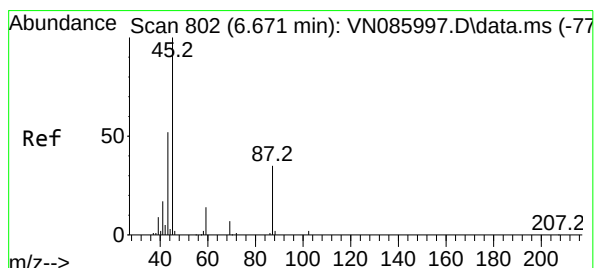
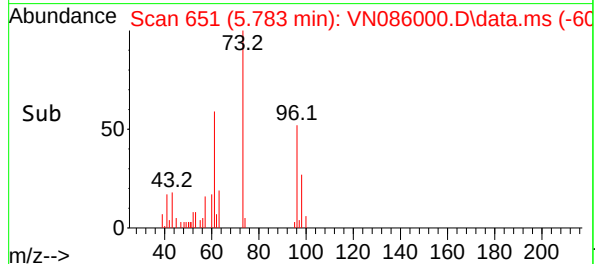
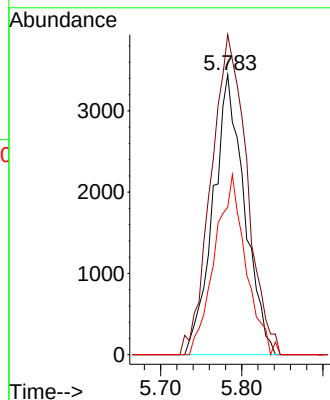
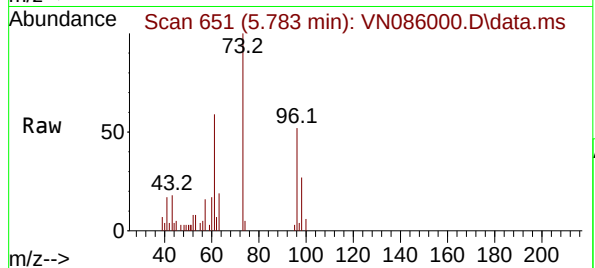
#21
trans-1,2-Dichloroethene
Concen: 5.039 ug/l
RT: 5.783 min Scan# 651
Delta R.T. -0.000 min
Lab File: VN086000.D
Acq: 18 Mar 2025 13:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion: 96 Resp: 924
Ion Ratio Lower Upper
96 100
61 114.3 106.6 160.0
98 52.6 50.0 75.0

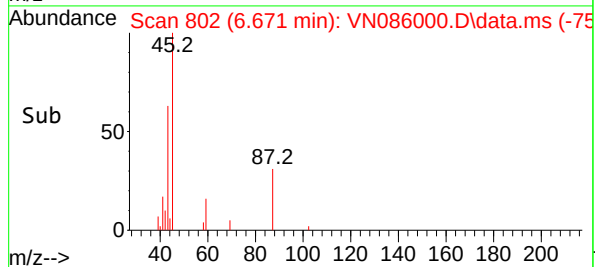
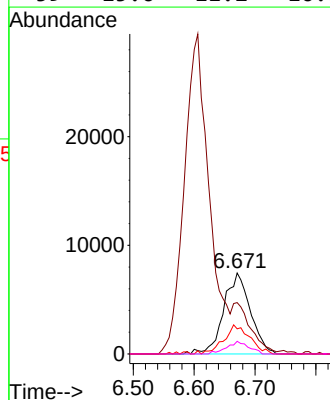
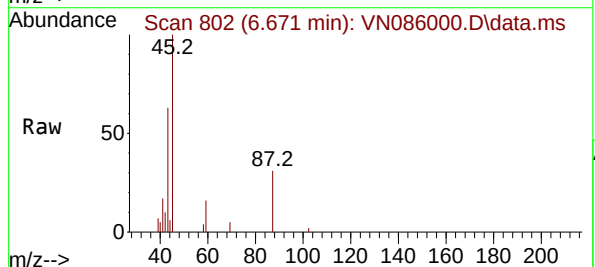
Manual Integrations
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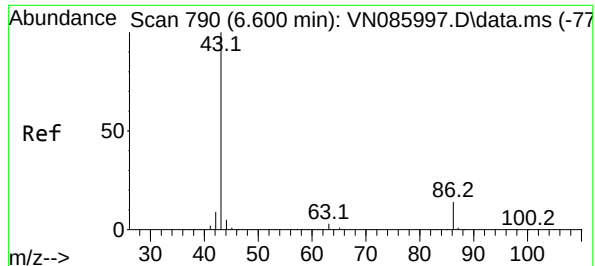
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#22
Diisopropyl ether
Concen: 5.092 ug/l
RT: 6.671 min Scan# 802
Delta R.T. -0.000 min
Lab File: VN086000.D
Acq: 18 Mar 2025 13:21

Tgt Ion: 45 Resp: 22716
Ion Ratio Lower Upper
45 100
43 59.9 41.2 61.8
87 31.1 28.5 42.7
59 15.6 11.2 16.8





#23

Vinyl Acetate

Concen: 24.772 ug/l

RT: 6.606 min Scan# 790

Delta R.T. 0.006 min

Lab File: VN086000.D

Acq: 18 Mar 2025 13:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 43 Resp: 8378

Ion Ratio Lower Upper

43 100

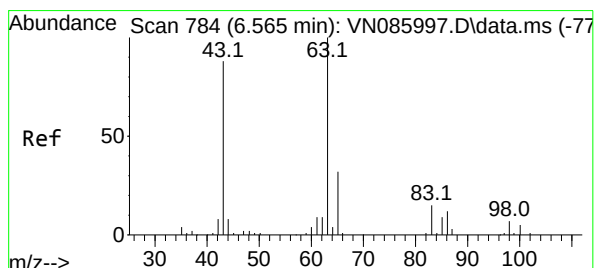
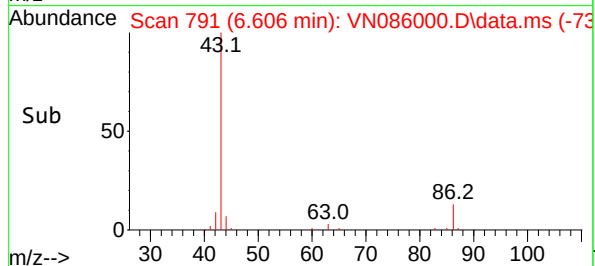
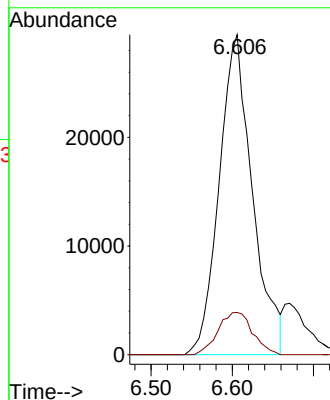
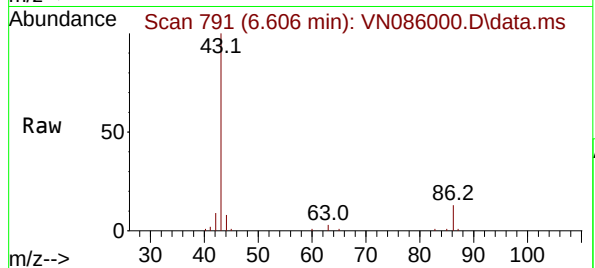
86 13.2 11.2 16.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#24

1,1-Dichloroethane

Concen: 5.151 ug/l

RT: 6.571 min Scan# 785

Delta R.T. 0.006 min

Lab File: VN086000.D

Acq: 18 Mar 2025 13:21

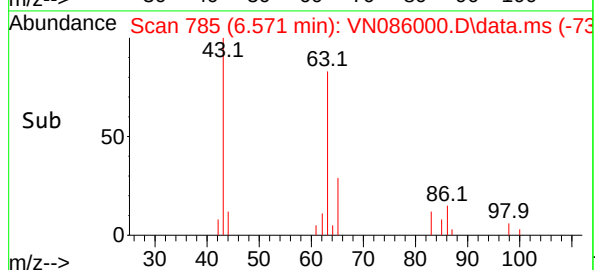
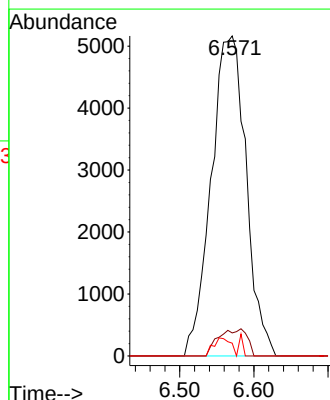
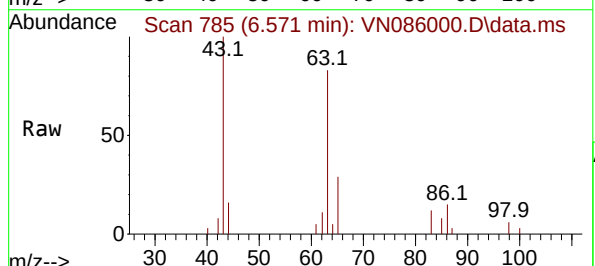
Tgt Ion: 63 Resp: 16897

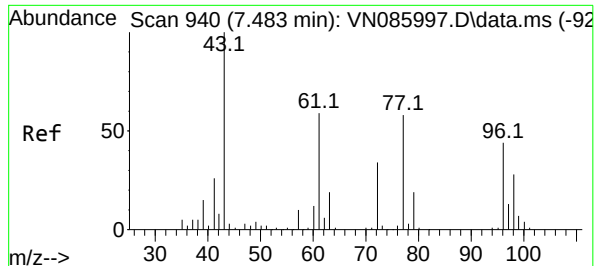
Ion Ratio Lower Upper

63 100

98 7.2 3.6 10.9

100 4.0 2.5 7.5





#25

2-Butanone

Concen: 26.392 ug/l

RT: 7.482 min Scan# 940

Delta R.T. -0.000 min

Lab File: VN086000.D

Acq: 18 Mar 2025 13:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 43 Resp: 2609

Ion Ratio Lower Upper

43 100

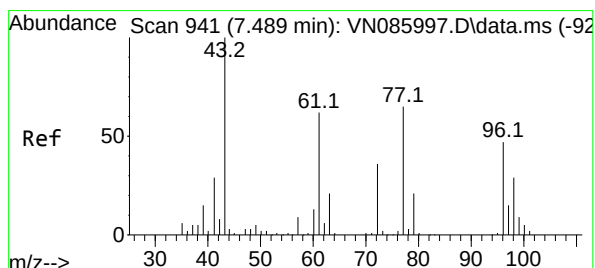
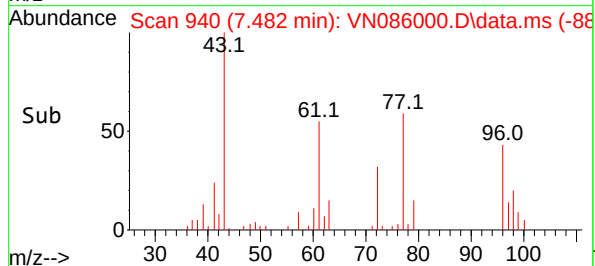
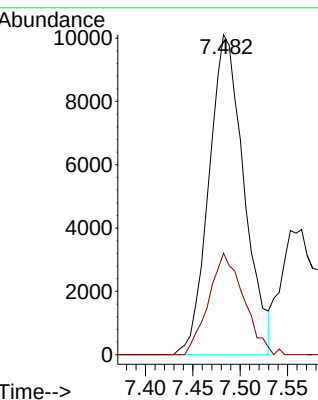
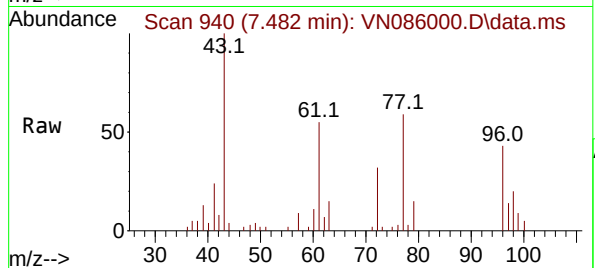
72 31.8 27.4 41.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#26

2,2-Dichloropropane

Concen: 5.274 ug/l

RT: 7.488 min Scan# 941

Delta R.T. -0.000 min

Lab File: VN086000.D

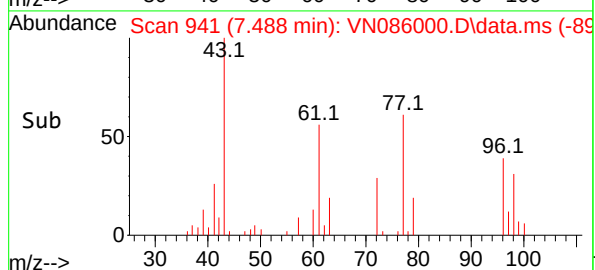
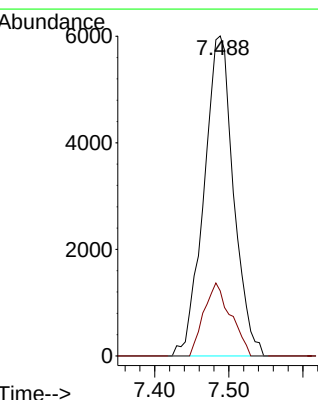
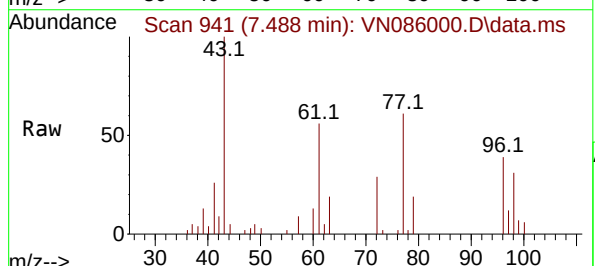
Acq: 18 Mar 2025 13:21

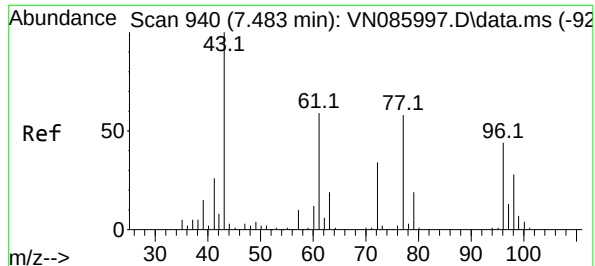
Tgt Ion: 77 Resp: 16658

Ion Ratio Lower Upper

77 100

97 20.7 11.2 33.5





#27

cis-1,2-Dichloroethene

Concen: 5.154 ug/l

RT: 7.482 min Scan# 940

Delta R.T. -0.000 min

Lab File: VN086000.D

Acq: 18 Mar 2025 13:21

Tgt Ion: 96 Resp: 1074

Ion Ratio Lower Upper

96 100

61 137.8 0.0 272.8

98 65.5 0.0 124.8

Instrument :

MSVOA_N

ClientSampleId :

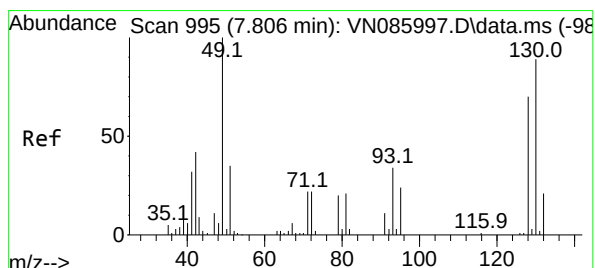
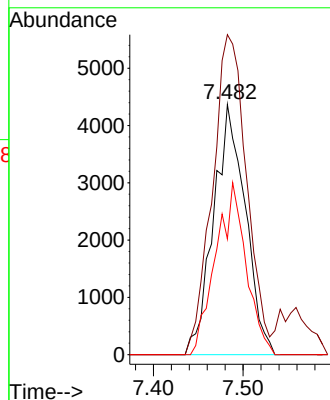
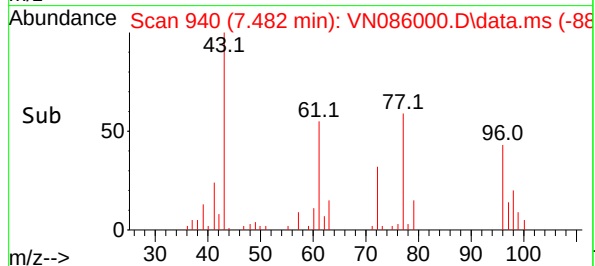
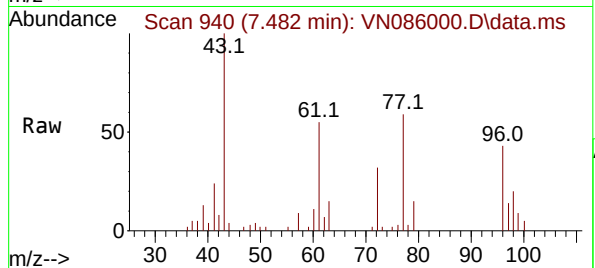
VSTDIC005

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#28

Bromochloromethane

Concen: 5.064 ug/l

RT: 7.812 min Scan# 996

Delta R.T. 0.006 min

Lab File: VN086000.D

Acq: 18 Mar 2025 13:21

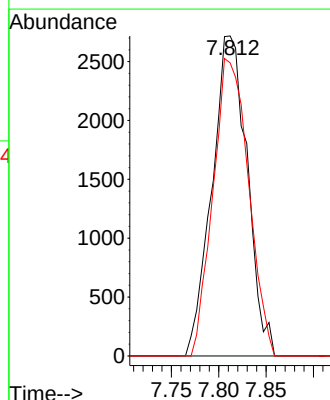
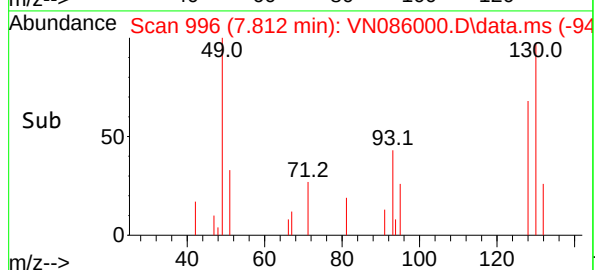
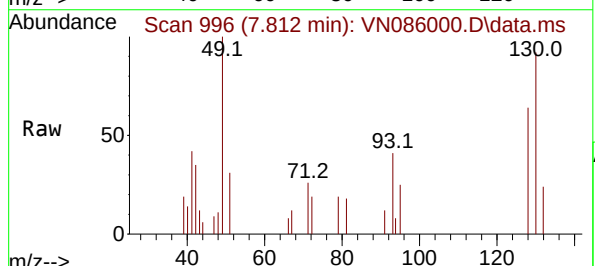
Tgt Ion: 49 Resp: 7039

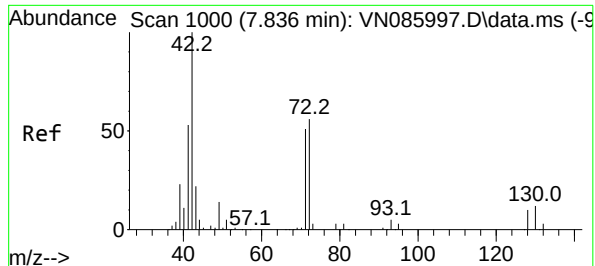
Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.2

130 93.4 74.2 111.4





#29

Tetrahydrofuran

Concen: 26.382 ug/l

RT: 7.847 min Scan# 1000

Delta R.T. 0.011 min

Lab File: VN086000.D

Acq: 18 Mar 2025 13:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

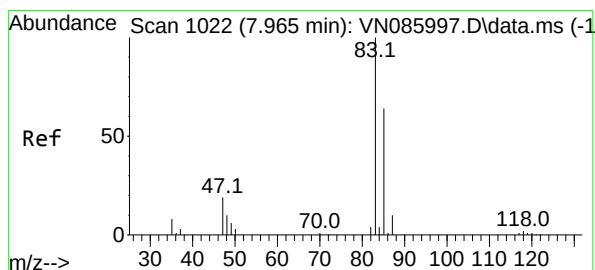
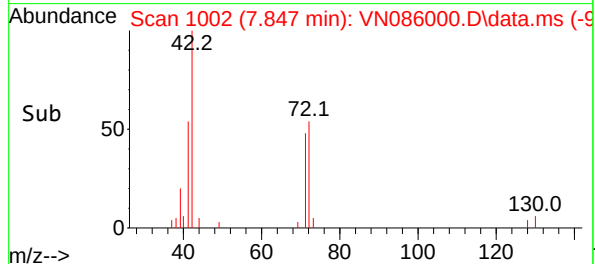
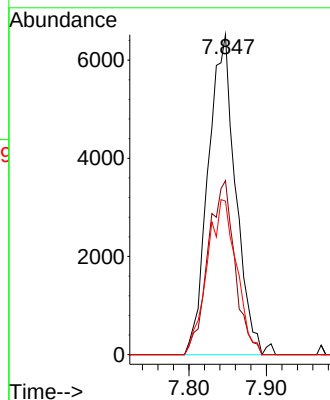
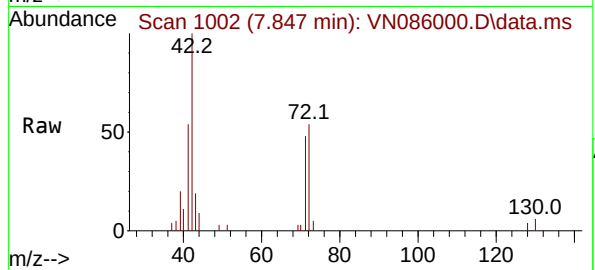
Tgt Ion:	42	Resp:	16104
Ion	Ratio	Lower	Upper
42	100		
72	53.0	45.0	67.4
71	51.9	41.9	62.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#30

Chloroform

Concen: 5.188 ug/l

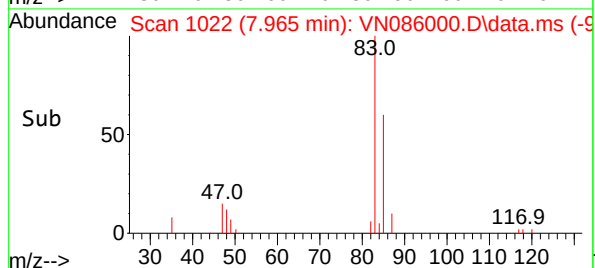
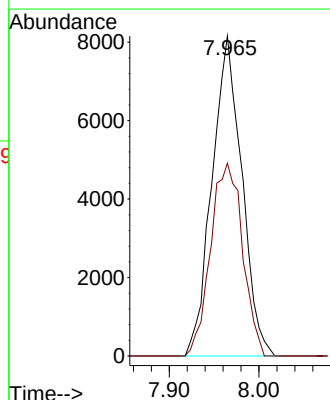
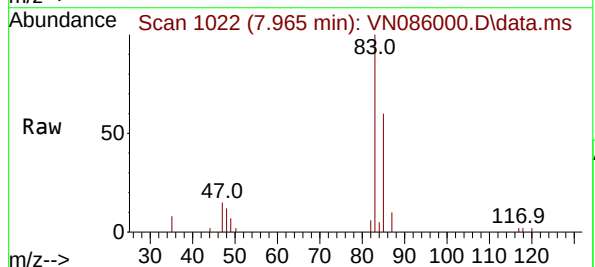
RT: 7.965 min Scan# 1022

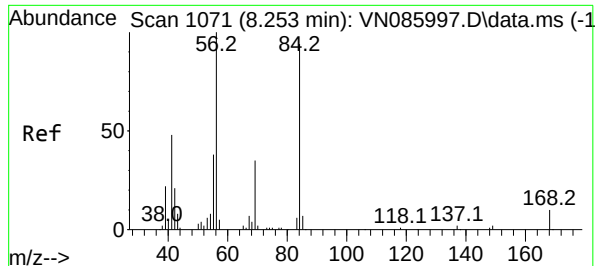
Delta R.T. -0.000 min

Lab File: VN086000.D

Acq: 18 Mar 2025 13:21

Tgt Ion:	83	Resp:	18814
Ion	Ratio	Lower	Upper
83	100		
85	60.2	51.5	77.3





#31

Cyclohexane

Concen: 5.611 ug/l

RT: 8.247 min Scan# 1070

Delta R.T. -0.006 min

Lab File: VN086000.D

Acq: 18 Mar 2025 13:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 56 Resp: 1568

Ion Ratio Lower Upper

56 100

69 40.9 28.0 42.0

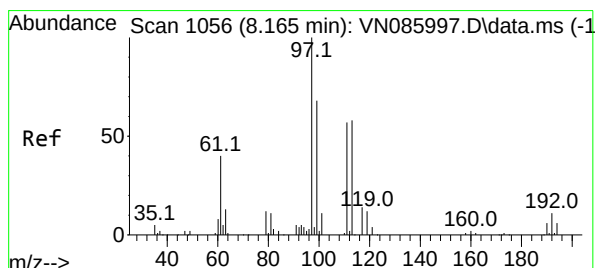
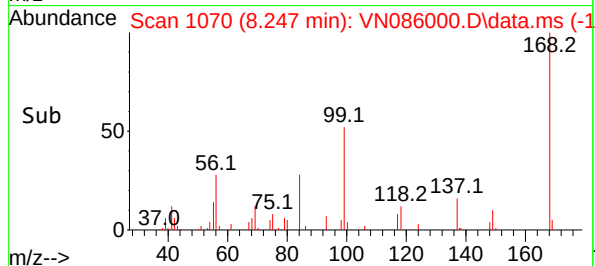
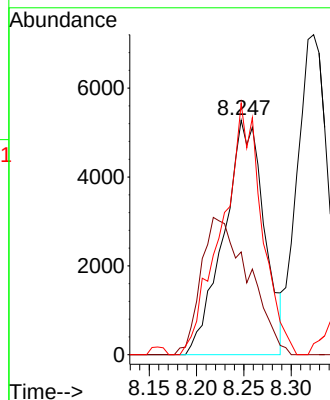
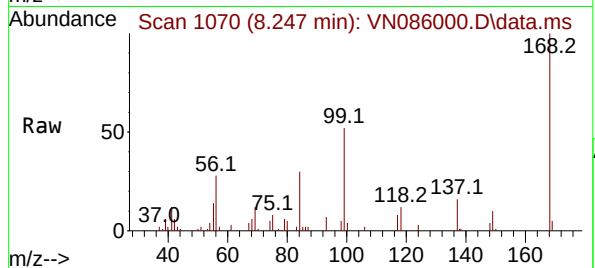
84 107.2 75.0 112.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#32

1,1,1-Trichloroethane

Concen: 5.233 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086000.D

Acq: 18 Mar 2025 13:21

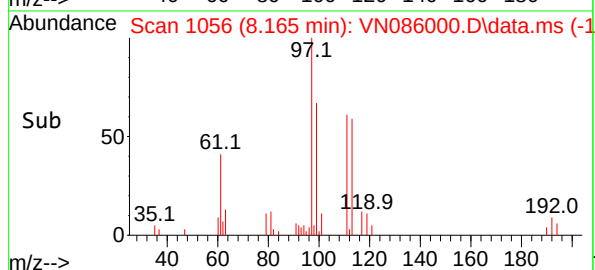
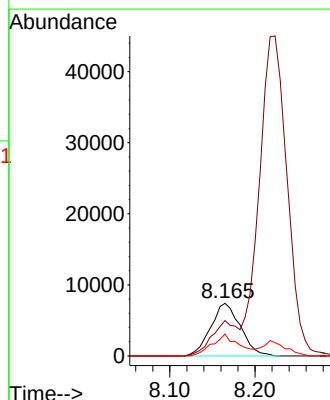
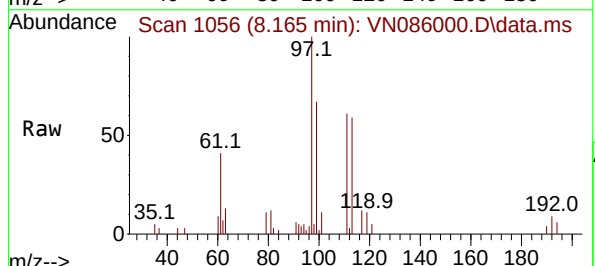
Tgt Ion: 97 Resp: 17962

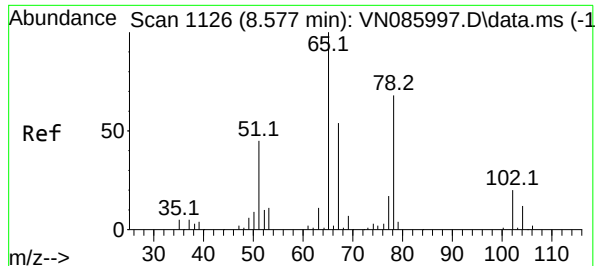
Ion Ratio Lower Upper

97 100

99 58.7 52.8 79.2

61 37.7 33.6 50.4





#33

1,2-Dichloroethane-d4

Concen: 5.383 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN086000.D

Acq: 18 Mar 2025 13:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 65 Resp: 12074

Ion Ratio Lower Upper

65 100

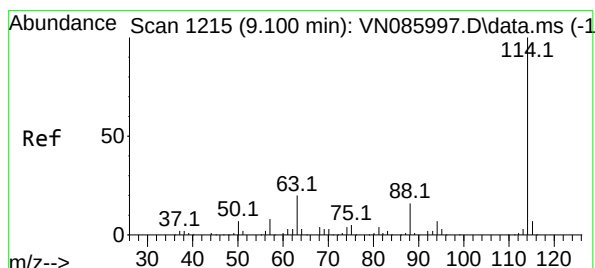
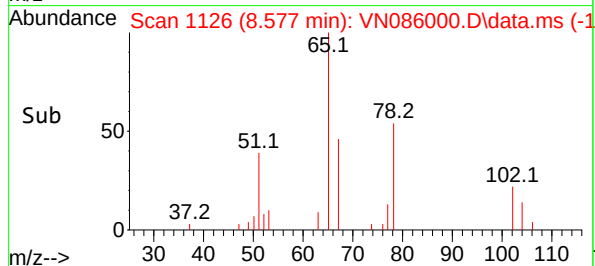
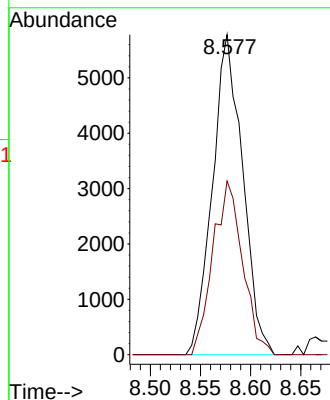
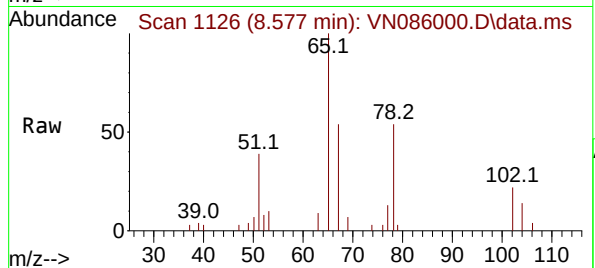
67 53.6 0.0 102.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN086000.D

Acq: 18 Mar 2025 13:21

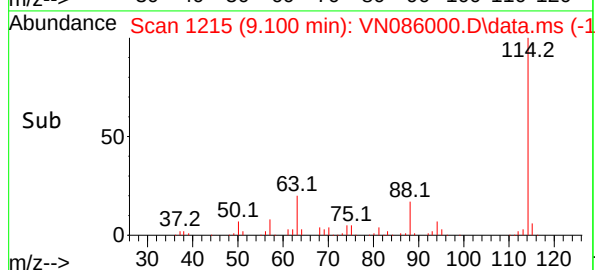
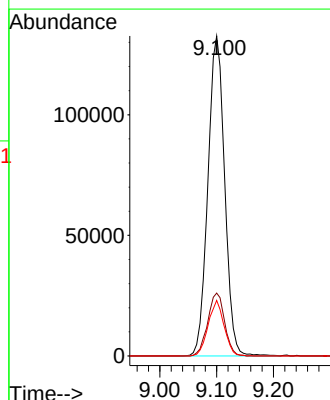
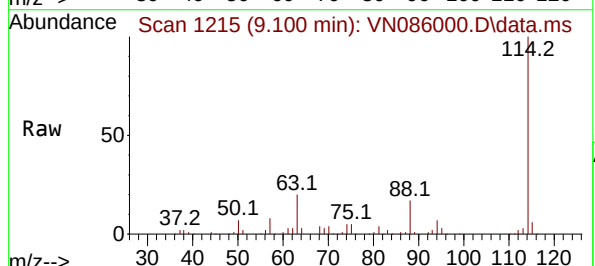
Tgt Ion:114 Resp: 271211

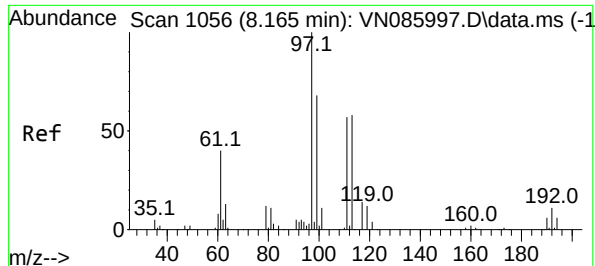
Ion Ratio Lower Upper

114 100

63 19.7 0.0 39.6

88 17.3 0.0 32.6





#35

Dibromofluoromethane

Concen: 5.274 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086000.D

Acq: 18 Mar 2025 13:21

Instrument :

MSVOA_N

ClientSampleId :

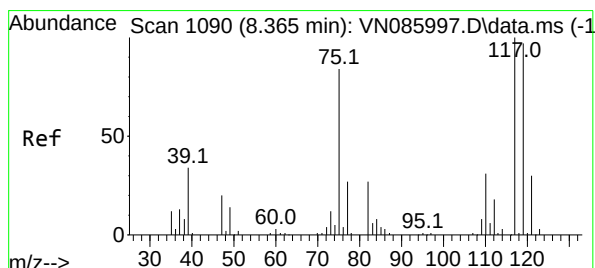
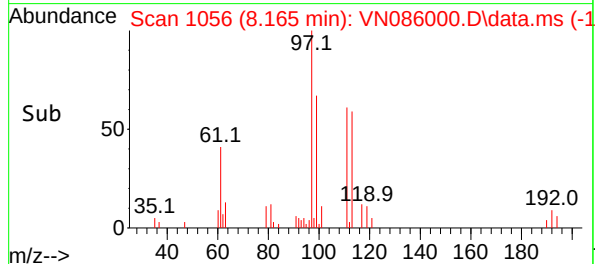
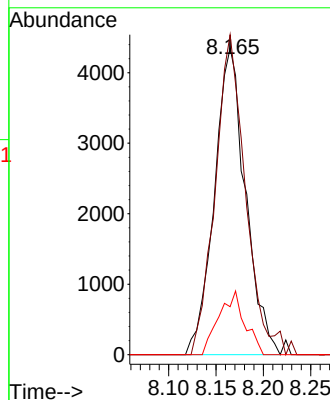
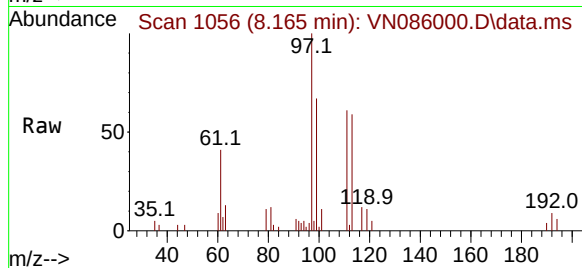
VSTDIC005

Tgt Ion:	113	Resp:	998
Ion	Ratio	Lower	Upper
113	100		
111	101.6	81.8	122.8
192	17.2	15.9	23.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#36

1,1-Dichloropropene

Concen: 4.936 ug/l

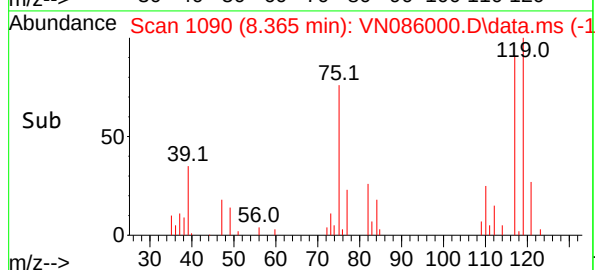
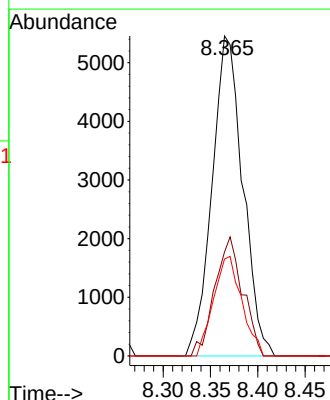
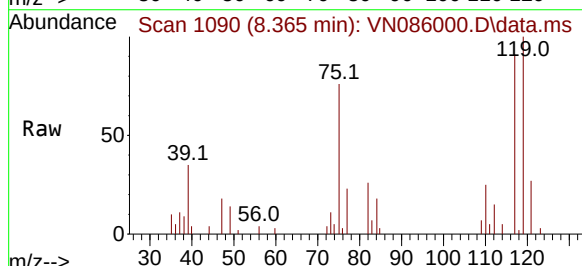
RT: 8.365 min Scan# 1090

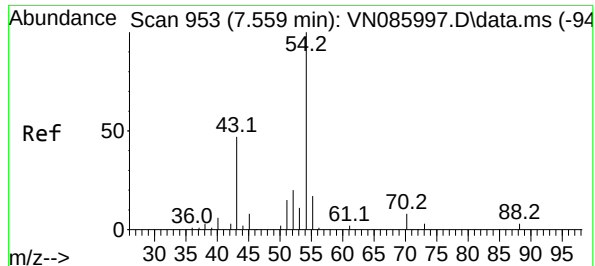
Delta R.T. -0.000 min

Lab File: VN086000.D

Acq: 18 Mar 2025 13:21

Tgt Ion:	75	Resp:	12303
Ion	Ratio	Lower	Upper
75	100		
110	33.9	17.8	53.3
77	28.6	25.0	37.4





#37

Ethyl Acetate

Concen: 5.309 ug/l

RT: 7.565 min Scan# 91

Delta R.T. 0.006 min

Lab File: VN086000.D

Acq: 18 Mar 2025 13:21

Instrument :

MSVOA_N

ClientSampleId :

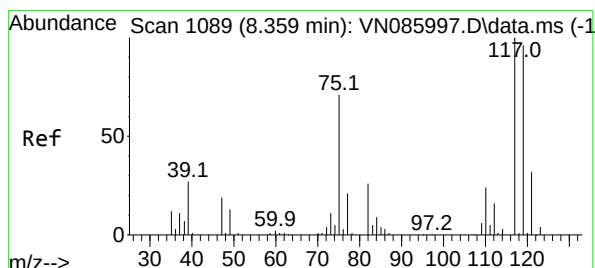
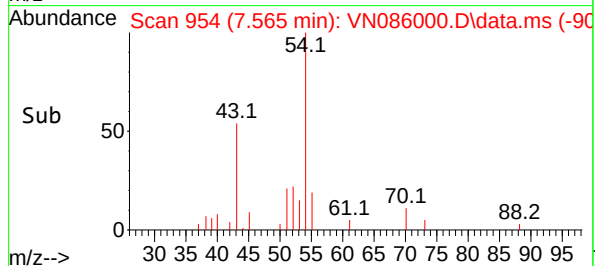
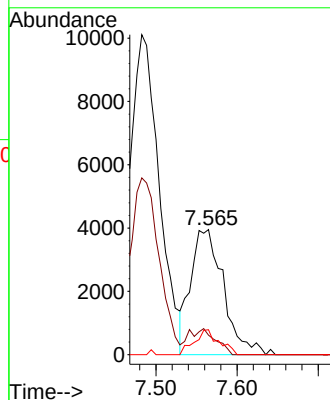
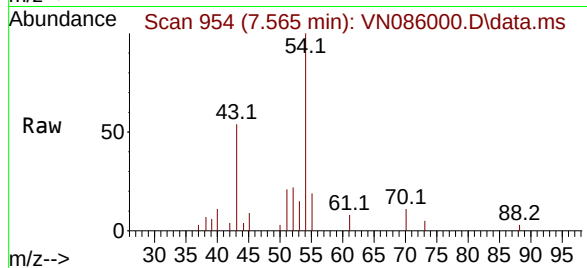
VSTDIC005

Tgt Ion: 43	Resp: 11164
Ion Ratio	Lower Upper
43 100	
61 17.1	13.0 19.4
70 14.8	11.0 16.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#38

Carbon Tetrachloride

Concen: 5.074 ug/l

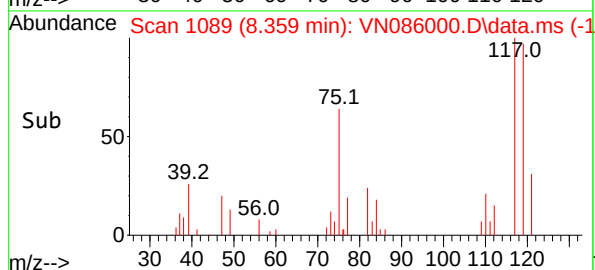
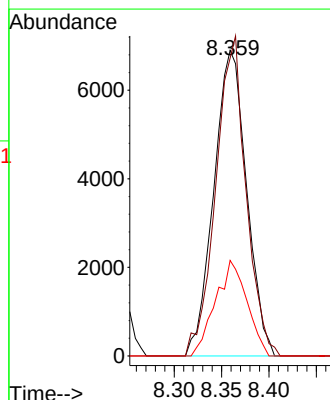
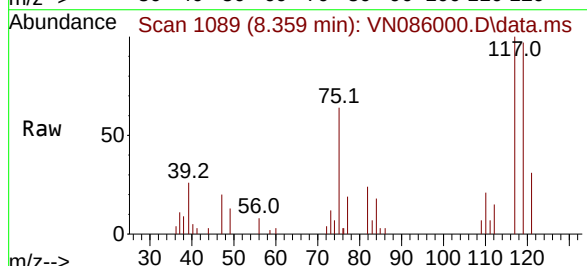
RT: 8.359 min Scan# 1089

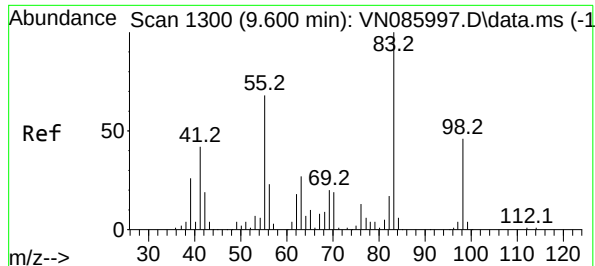
Delta R.T. -0.000 min

Lab File: VN086000.D

Acq: 18 Mar 2025 13:21

Tgt Ion: 117	Resp: 16628
Ion Ratio	Lower Upper
117 100	
119 97.4	77.0 115.4
121 31.3	25.6 38.4





#39

Methylcyclohexane

Concen: 4.675 ug/l

RT: 9.600 min Scan# 1156

Delta R.T. -0.000 min

Lab File: VN086000.D

Acq: 18 Mar 2025 13:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 83 Resp: 1156

Ion Ratio Lower Upper

83 100

55 81.3 54.2 81.2

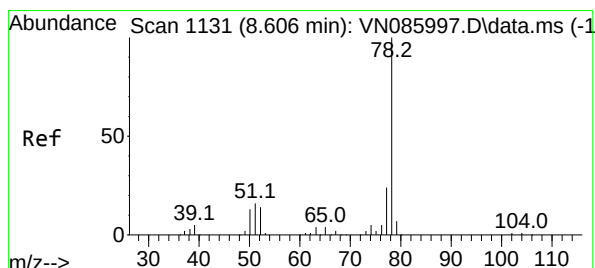
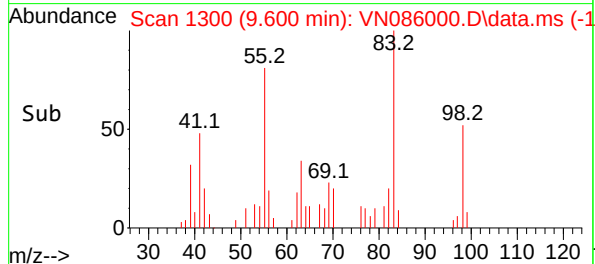
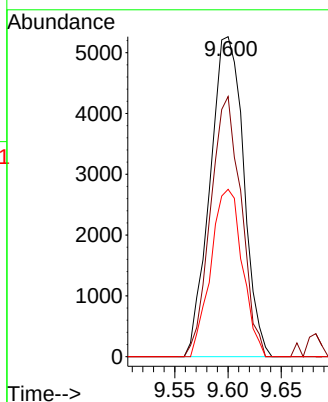
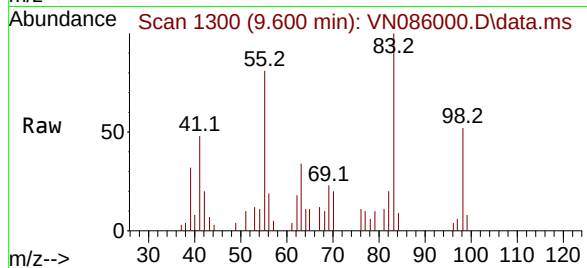
98 52.3 37.1 55.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#40

Benzene

Concen: 5.037 ug/l

RT: 8.606 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VN086000.D

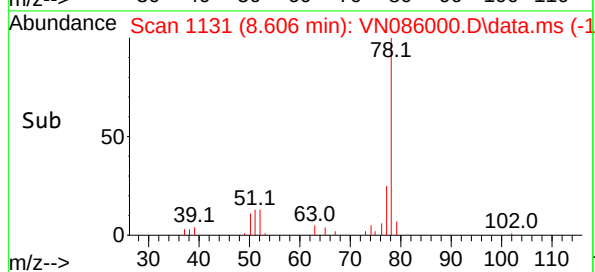
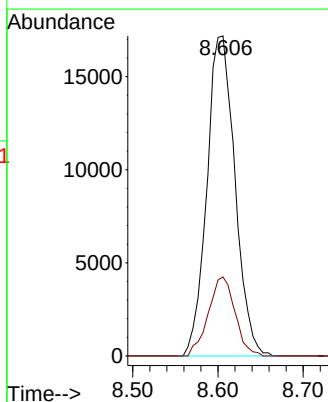
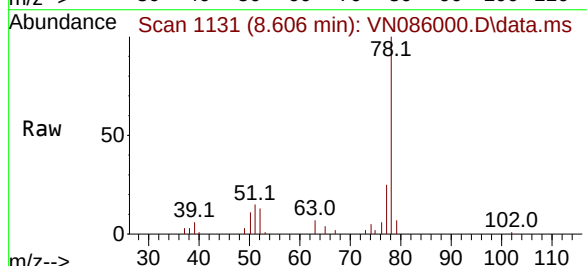
Acq: 18 Mar 2025 13:21

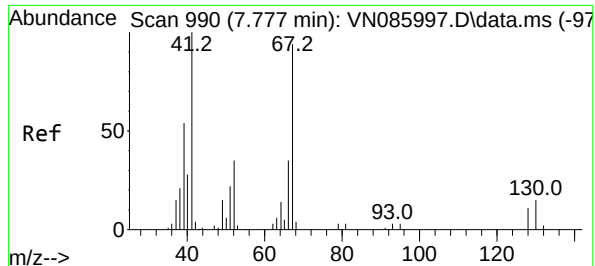
Tgt Ion: 78 Resp: 39414

Ion Ratio Lower Upper

78 100

77 24.7 18.9 28.3





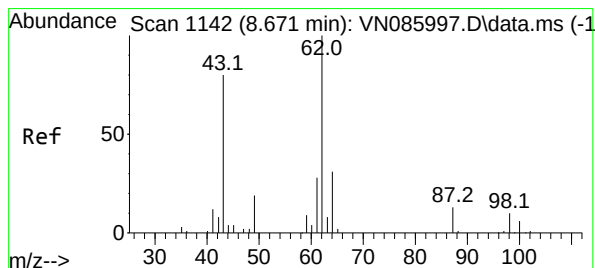
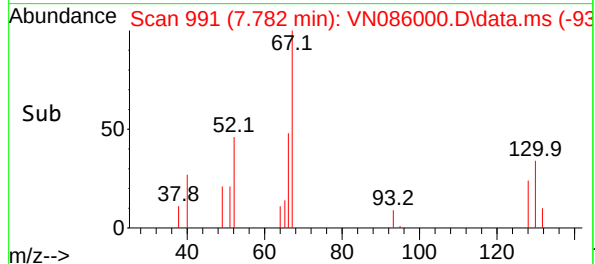
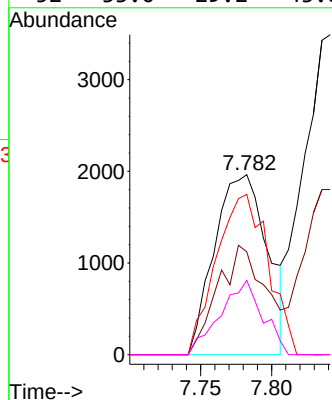
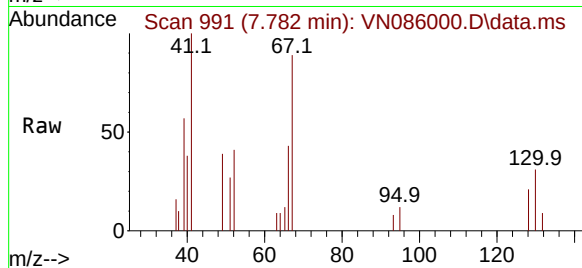
#41
Methacrylonitrile
Concen: 5.074 ug/l
RT: 7.782 min Scan# 991
Delta R.T. 0.006 min
Lab File: VN086000.D
Acq: 18 Mar 2025 13:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion:	41	Resp:	509
Ion	Ratio	Lower	Upper
41	100		
39	54.5	46.2	69.2
67	87.1	75.9	113.9
52	33.0	29.2	43.8

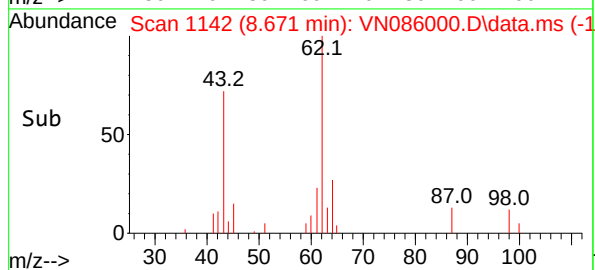
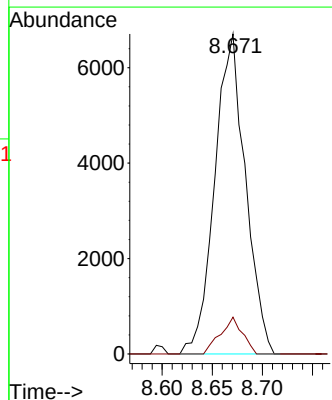
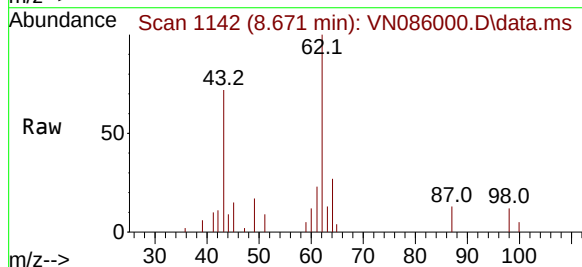
Manual Integrations
APPROVED

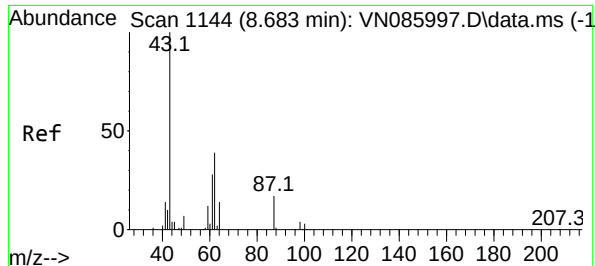
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#42
1,2-Dichloroethane
Concen: 5.249 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VN086000.D
Acq: 18 Mar 2025 13:21

Tgt Ion:	62	Resp:	14311
Ion	Ratio	Lower	Upper
62	100		
98	8.2	0.0	18.6





#43

Isopropyl Acetate

Concen: 4.992 ug/l

RT: 8.688 min Scan# 1144

Delta R.T. 0.006 min

Lab File: VN086000.D

Acq: 18 Mar 2025 13:21

Instrument :

MSVOA_N

ClientSampleId :

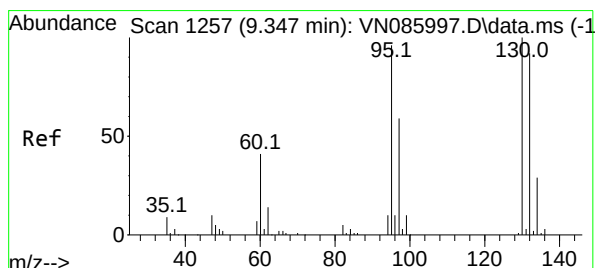
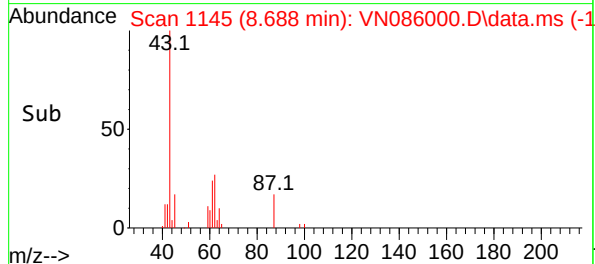
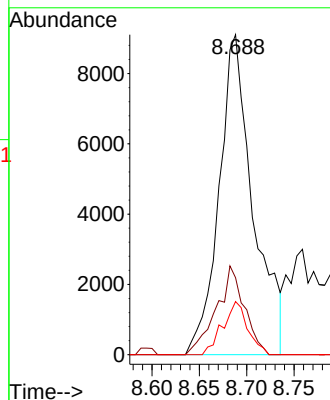
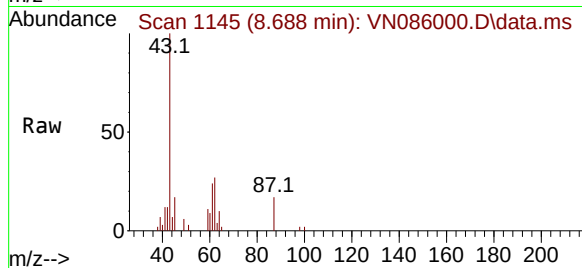
VSTDIC005

Tgt Ion:	43	Resp:	22794
Ion	Ratio	Lower	Upper
43	100		
61	22.9	25.0	37.6
87	12.2	13.0	19.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#44

Trichloroethene

Concen: 5.081 ug/l

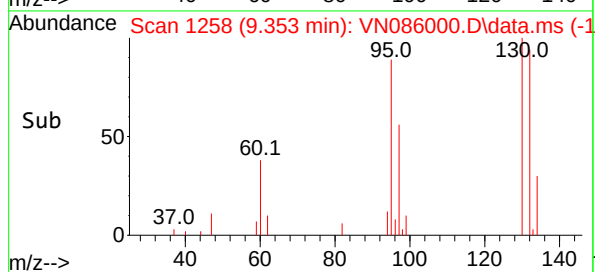
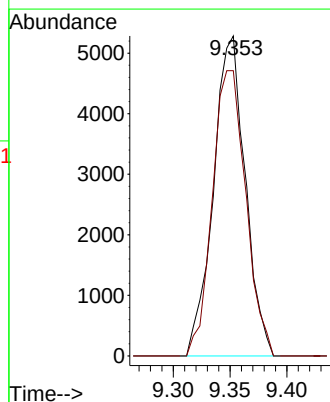
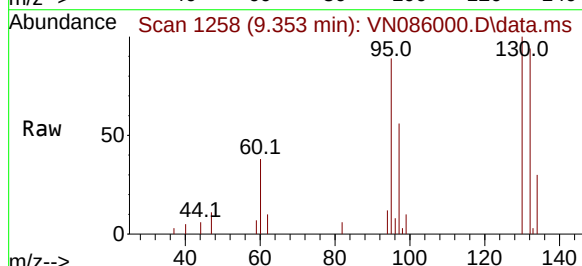
RT: 9.353 min Scan# 1258

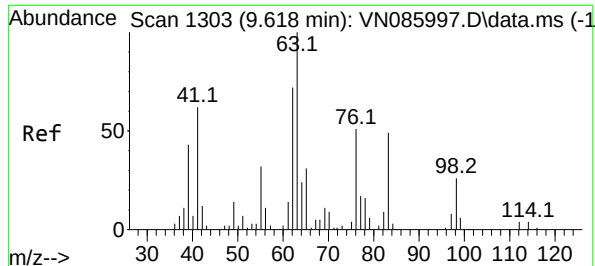
Delta R.T. 0.006 min

Lab File: VN086000.D

Acq: 18 Mar 2025 13:21

Tgt Ion:	130	Resp:	10304
Ion	Ratio	Lower	Upper
130	100		
95	89.2	0.0	191.6





#45

1,2-Dichloropropane

Concen: 5.071 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. -0.000 min

Lab File: VN086000.D

Acq: 18 Mar 2025 13:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 63 Resp: 9020

Ion Ratio Lower Upper

63 100

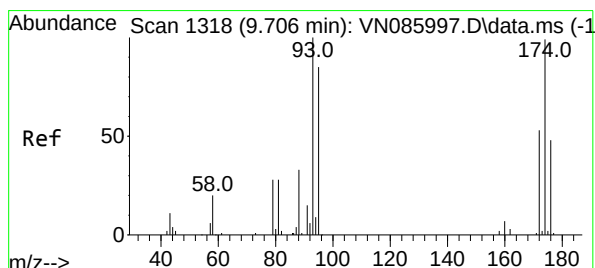
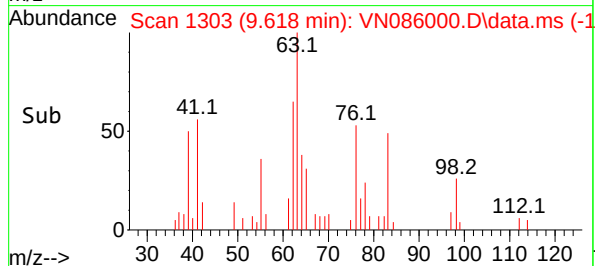
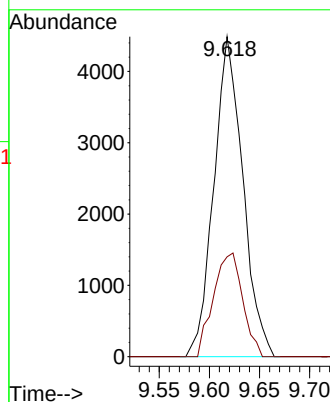
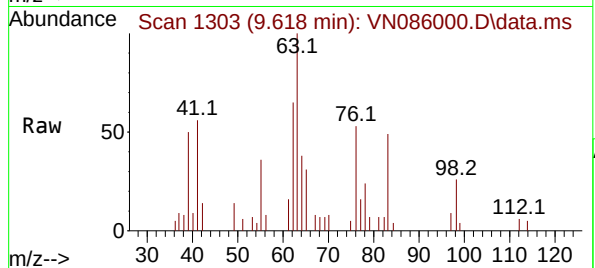
65 31.2 24.7 37.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#46

Dibromomethane

Concen: 5.194 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. -0.000 min

Lab File: VN086000.D

Acq: 18 Mar 2025 13:21

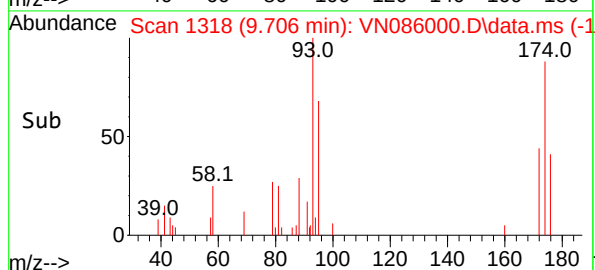
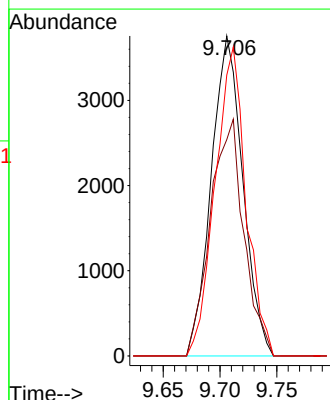
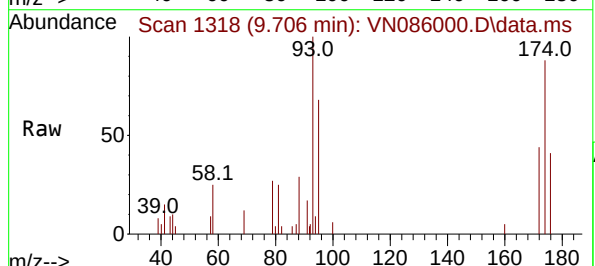
Tgt Ion: 93 Resp: 7270

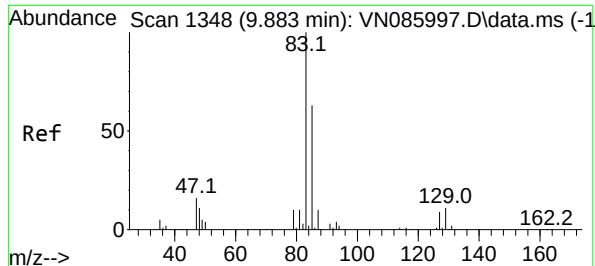
Ion Ratio Lower Upper

93 100

95 78.3 66.2 99.2

174 94.3 80.1 120.1





#47

Bromodichloromethane

Concen: 5.197 ug/l

RT: 9.888 min Scan# 1348

Delta R.T. 0.006 min

Lab File: VN086000.D

Acq: 18 Mar 2025 13:21

Instrument :

MSVOA_N

ClientSampleId :

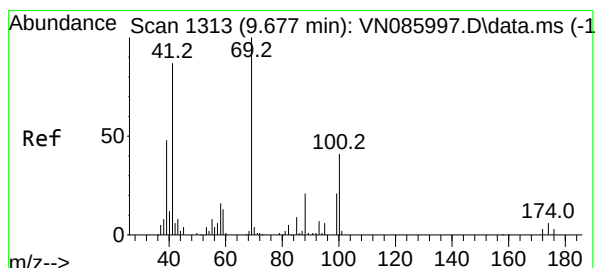
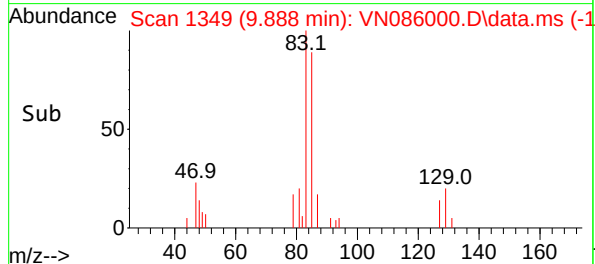
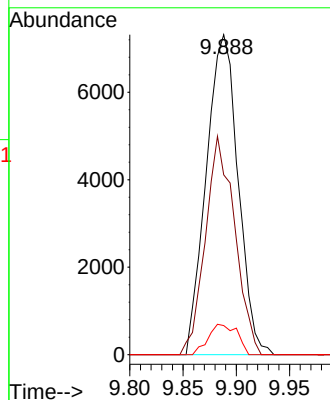
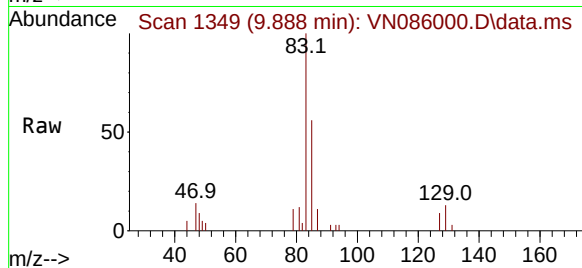
VSTDIC005

Tgt Ion:	83	Resp:	1520
Ion Ratio	Lower	Upper	
83	100		
85	56.2	50.2	75.2
127	9.1	7.1	10.7

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#48

Methyl methacrylate

Concen: 4.635 ug/l

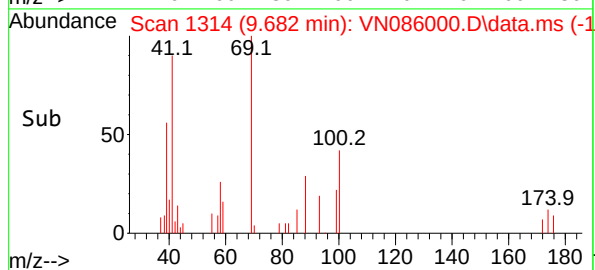
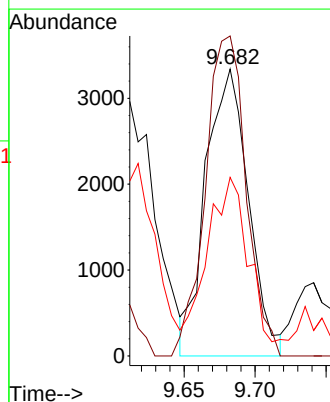
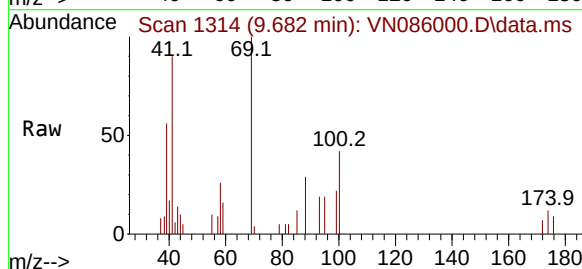
RT: 9.682 min Scan# 1314

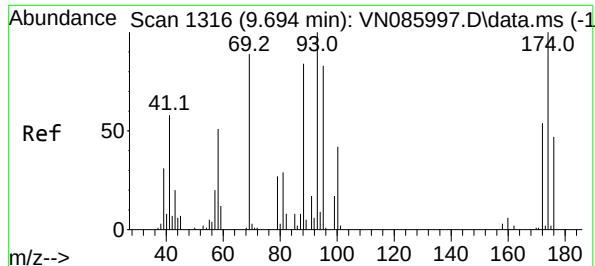
Delta R.T. 0.006 min

Lab File: VN086000.D

Acq: 18 Mar 2025 13:21

Tgt Ion:	41	Resp:	6970
Ion Ratio	Lower	Upper	
41	100		
69	106.7	83.1	124.7
39	63.4	45.6	68.4





#49

1,4-Dioxane

Concen: 107.772 ug/l

RT: 9.700 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN086000.D

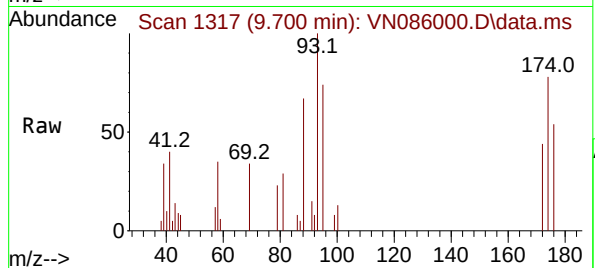
Acq: 18 Mar 2025 13:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005



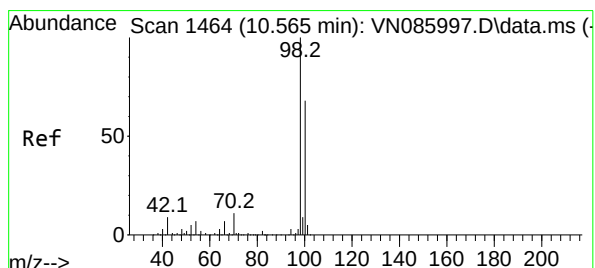
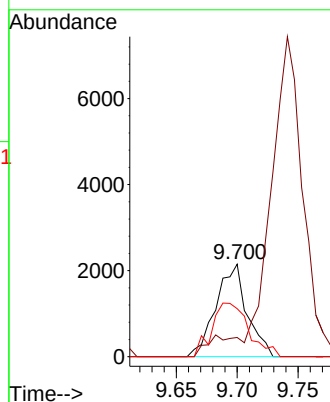
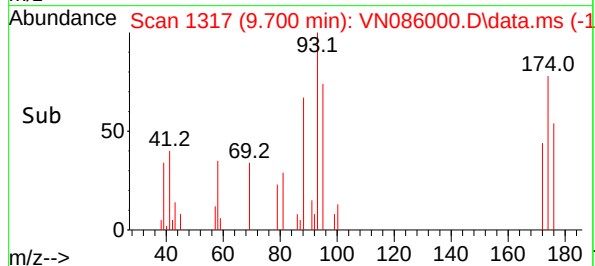
Tgt Ion:	88	Resp:	383
Ion	Ratio	Lower	Upper
88	100		
43	17.1	21.7	32.5
58	68.3	50.4	75.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#50

Toluene-d8

Concen: 4.803 ug/l

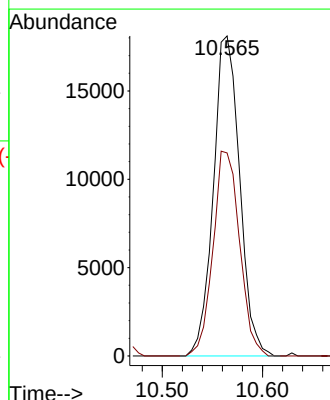
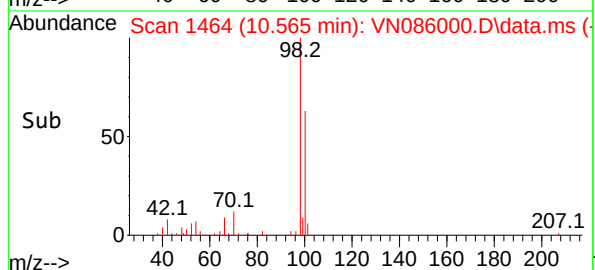
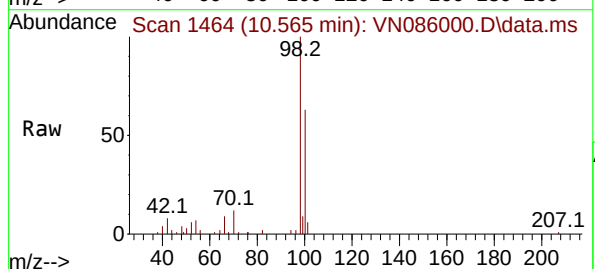
RT: 10.565 min Scan# 1464

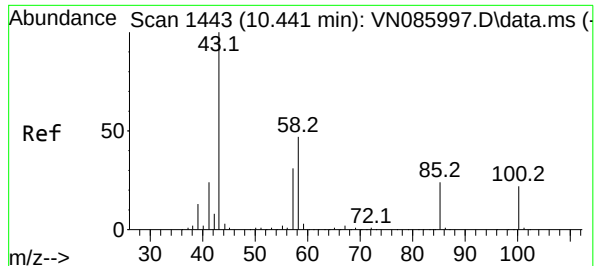
Delta R.T. -0.000 min

Lab File: VN086000.D

Acq: 18 Mar 2025 13:21

Tgt Ion:	98	Resp:	32999
Ion	Ratio	Lower	Upper
98	100		
100	64.5	53.1	79.7





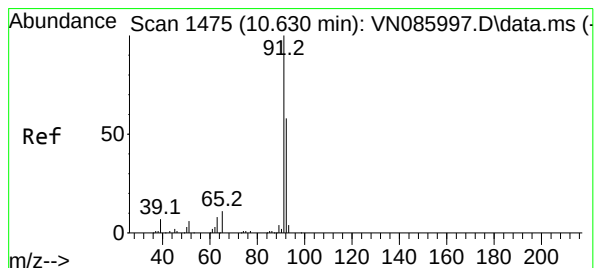
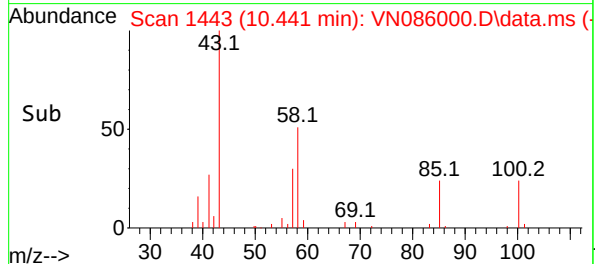
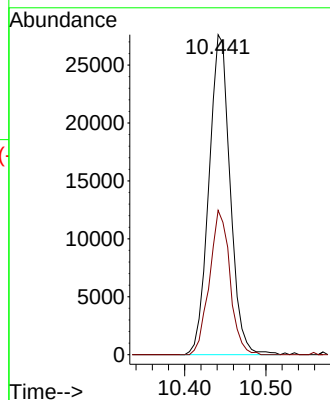
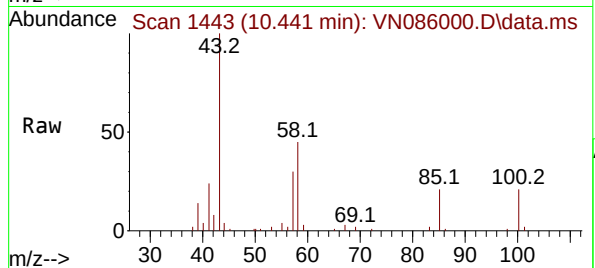
#51
4-Methyl-2-Pentanone
Concen: 24.920 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN086000.D
Acq: 18 Mar 2025 13:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 5008
Ion Ratio Lower Upper
43 100
58 43.5 37.4 56.0

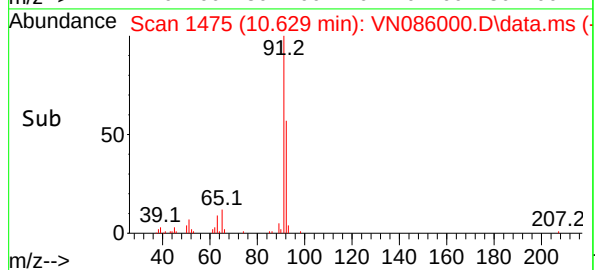
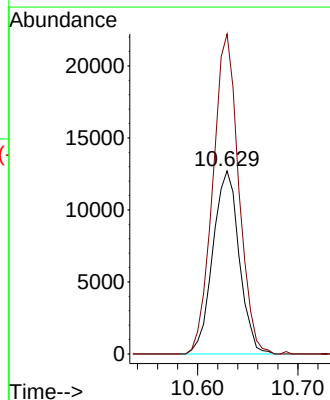
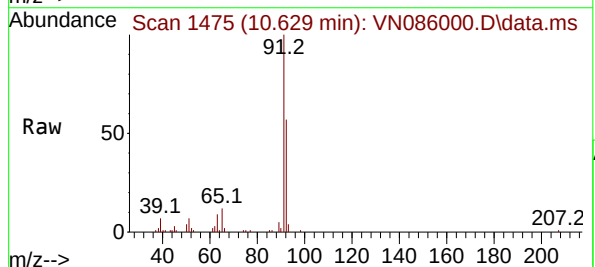
Manual Integrations
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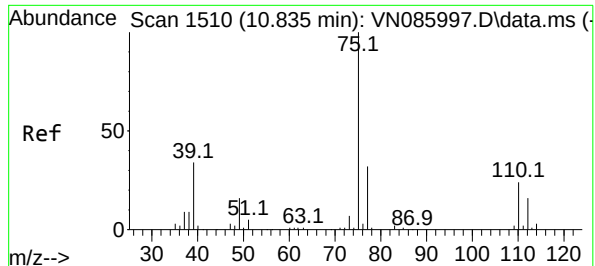
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#52
Toluene
Concen: 4.836 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN086000.D
Acq: 18 Mar 2025 13:21

Tgt Ion: 92 Resp: 23224
Ion Ratio Lower Upper
92 100
91 171.3 136.2 204.4





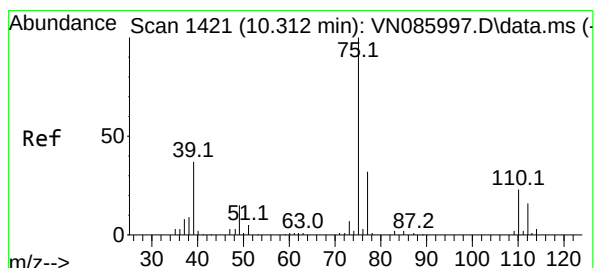
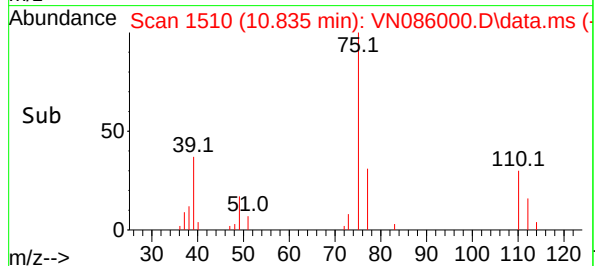
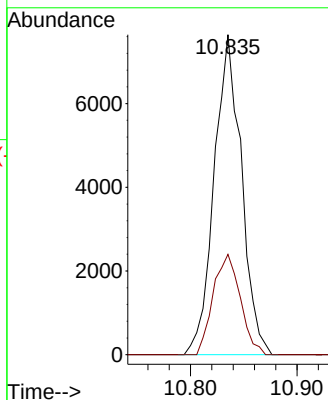
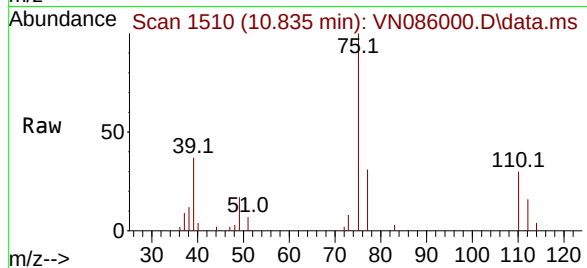
#53
t-1,3-Dichloropropene
Concen: 4.785 ug/l
RT: 10.835 min Scan# 1510
Delta R.T. -0.000 min
Lab File: VN086000.D
Acq: 18 Mar 2025 13:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 75 Resp: 13594
Ion Ratio Lower Upper
75 100
77 31.4 25.3 37.9

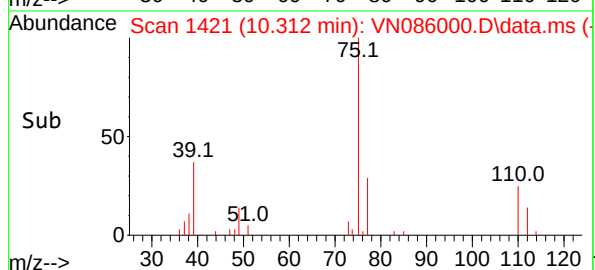
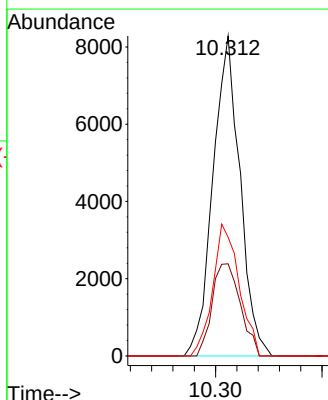
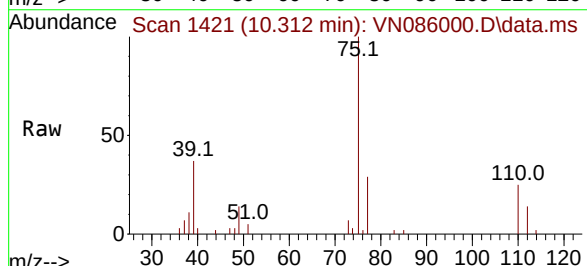
Manual Integrations
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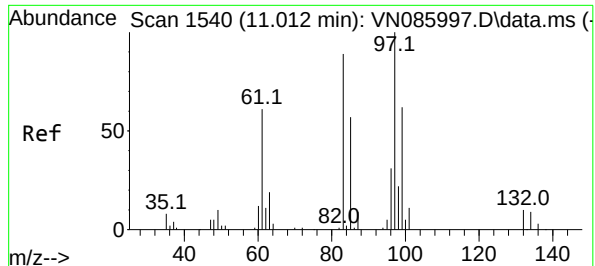
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#54
cis-1,3-Dichloropropene
Concen: 4.856 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. -0.000 min
Lab File: VN086000.D
Acq: 18 Mar 2025 13:21

Tgt Ion: 75 Resp: 14556
Ion Ratio Lower Upper
75 100
77 28.8 25.3 37.9
39 37.1 29.6 44.4





#55

1,1,2-Trichloroethane

Concen: 5.007 ug/l

RT: 11.012 min Scan# 1540

Delta R.T. -0.000 min

Lab File: VN086000.D

Acq: 18 Mar 2025 13:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 97 Resp: 9178

Ion Ratio Lower Upper

97 100

83 85.5 71.2 106.8

85 61.3 45.4 68.0

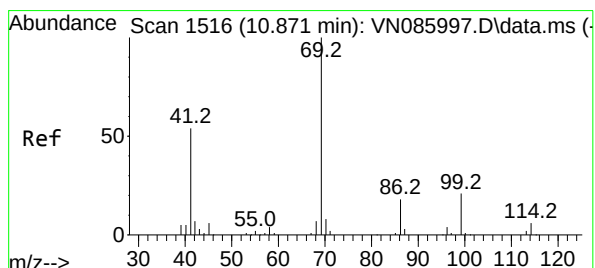
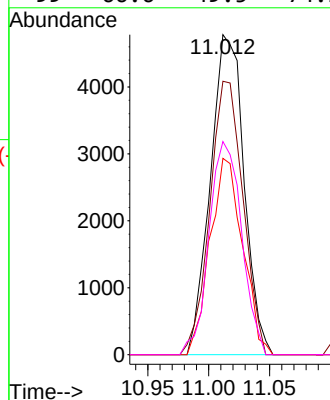
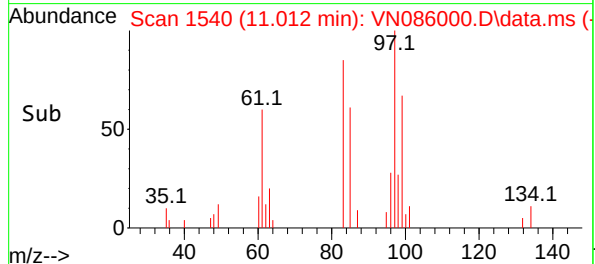
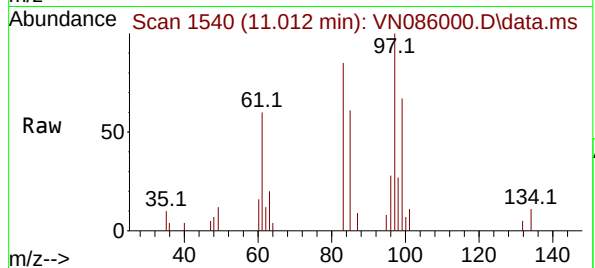
99 66.6 49.5 74.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#56

Ethyl methacrylate

Concen: 4.940 ug/l

RT: 10.870 min Scan# 1516

Delta R.T. -0.001 min

Lab File: VN086000.D

Acq: 18 Mar 2025 13:21

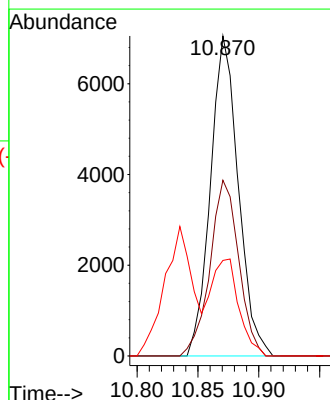
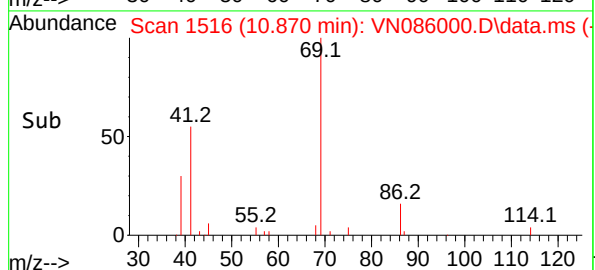
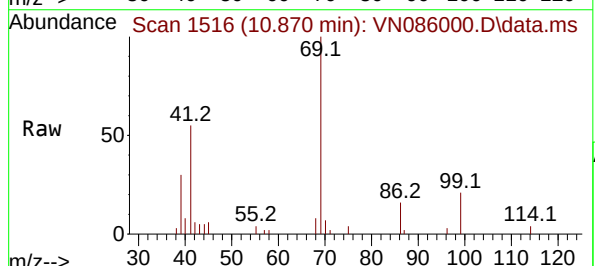
Tgt Ion: 69 Resp: 11206

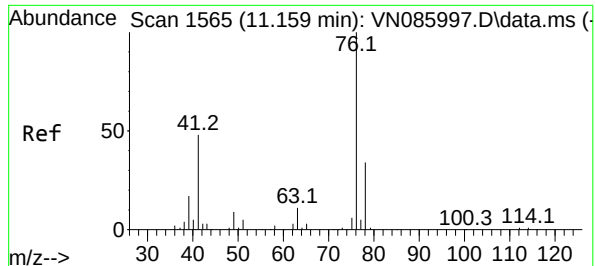
Ion Ratio Lower Upper

69 100

41 56.6 41.6 62.4

39 30.7 21.8 32.8





#57

1,3-Dichloropropane

Concen: 4.858 ug/l

RT: 11.165 min Scan# 1565

Delta R.T. 0.006 min

Lab File: VN086000.D

Acq: 18 Mar 2025 13:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 76 Resp: 15120

Ion Ratio Lower Upper

76 100

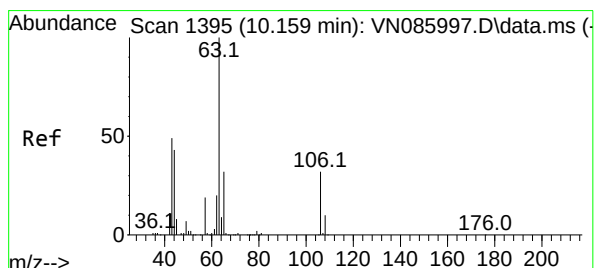
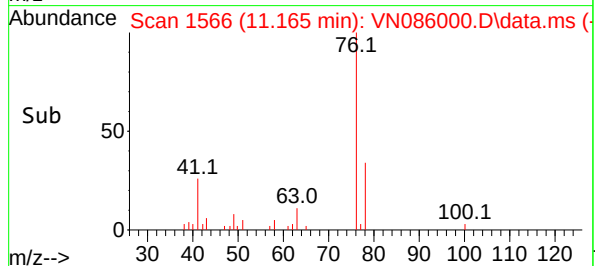
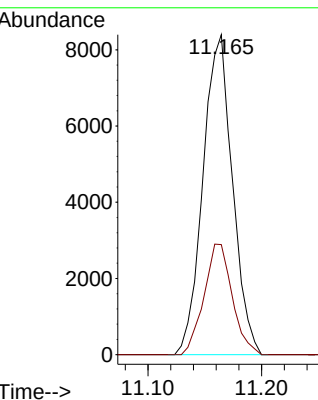
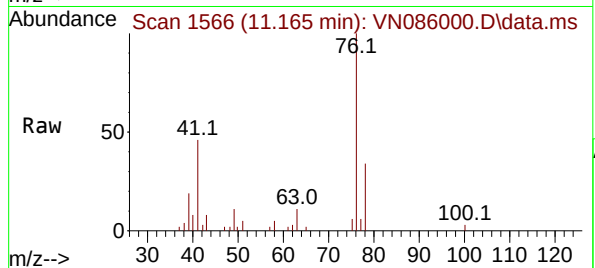
78 33.2 25.8 38.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#58

2-Chloroethyl Vinyl ether

Concen: 31.548 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. -0.000 min

Lab File: VN086000.D

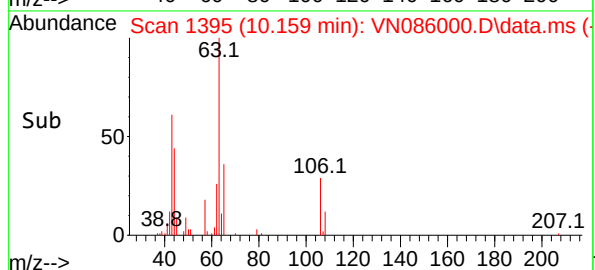
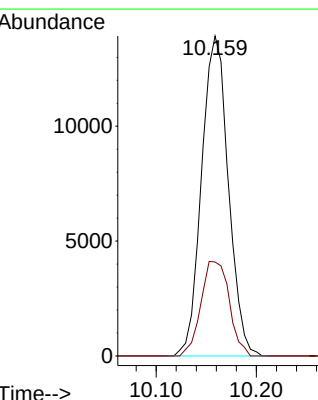
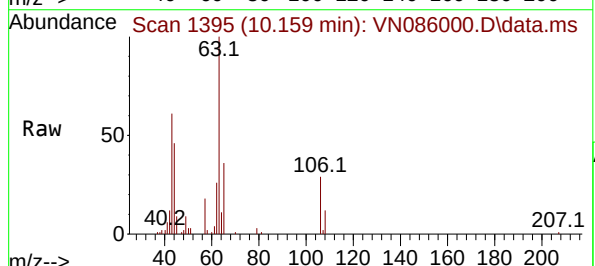
Acq: 18 Mar 2025 13:21

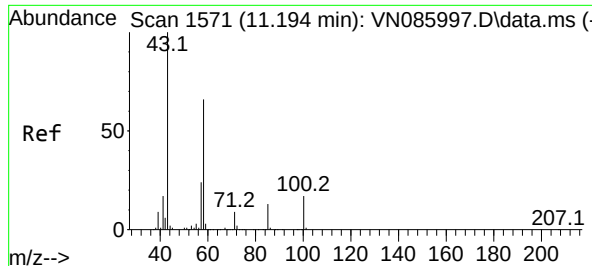
Tgt Ion: 63 Resp: 25811

Ion Ratio Lower Upper

63 100

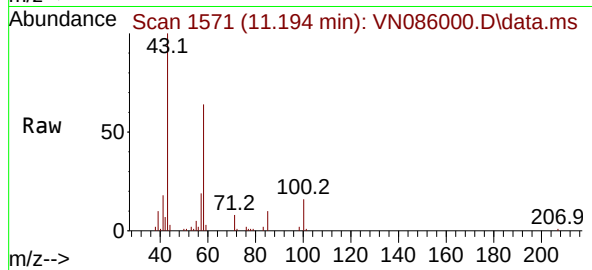
106 31.3 25.0 37.6





#59
2-Hexanone
Concen: 24.217 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. -0.000 min
Lab File: VN086000.D
Acq: 18 Mar 2025 13:21

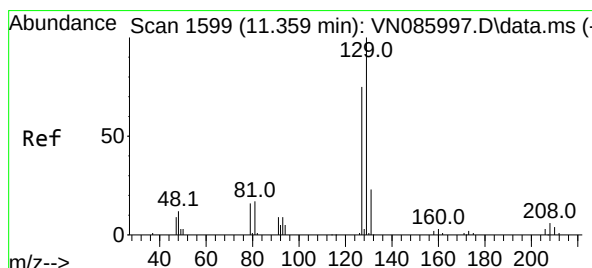
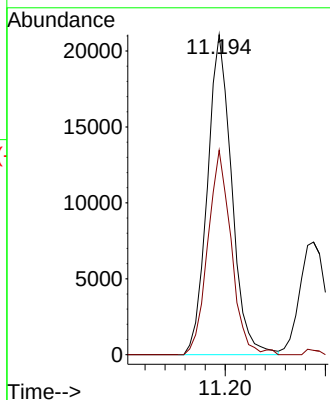
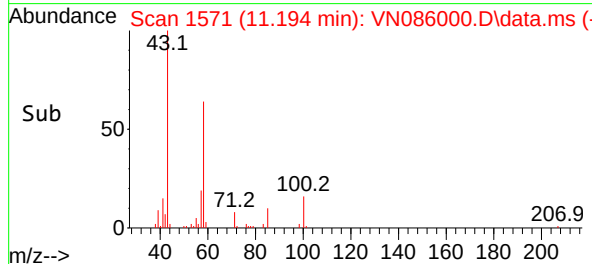
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005



Tgt Ion: 43 Resp: 3545
Ion Ratio Lower Upper
43 100
58 61.7 32.4 97.2

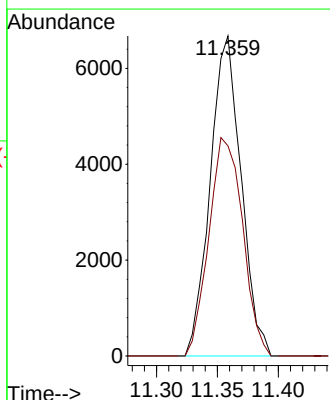
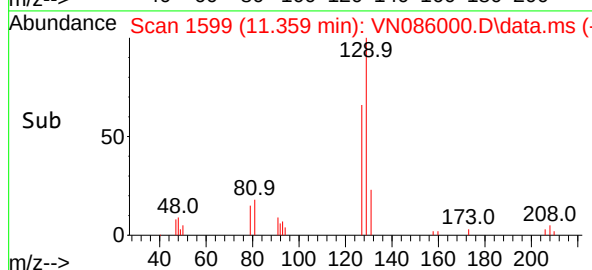
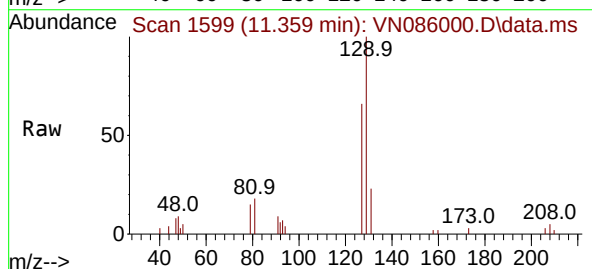
Manual Integrations
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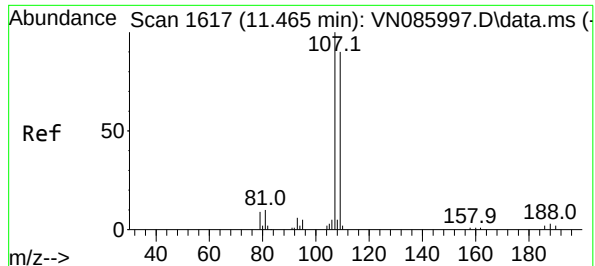
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#60
Dibromochloromethane
Concen: 4.994 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VN086000.D
Acq: 18 Mar 2025 13:21

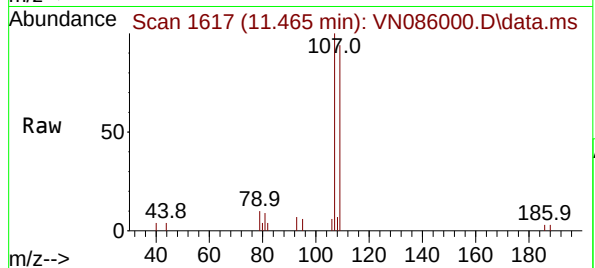
Tgt Ion:129 Resp: 11813
Ion Ratio Lower Upper
129 100
127 74.5 37.8 113.4





#61
1,2-Dibromoethane
Concen: 4.859 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VN086000.D
Acq: 18 Mar 2025 13:21

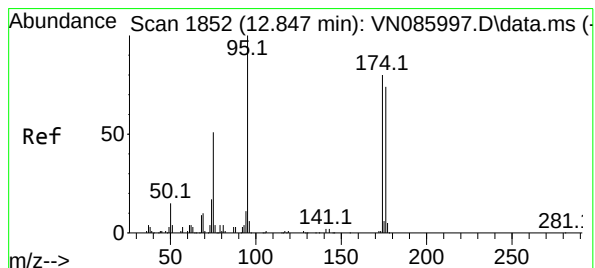
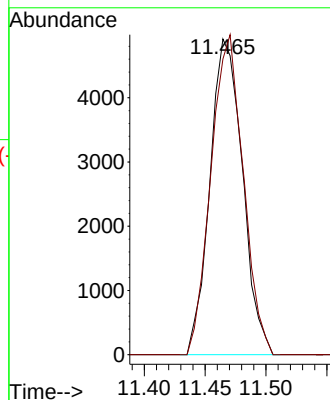
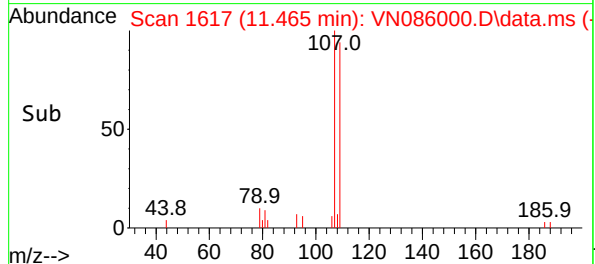
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005



Tgt Ion: 107 Resp: 914
Ion Ratio Lower Upper
107 100
109 100.7 73.3 109.9

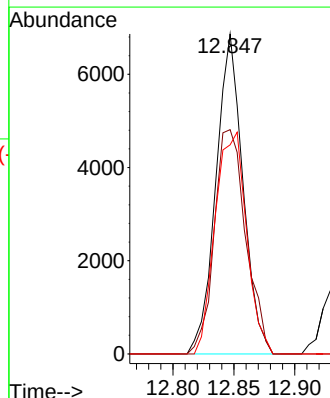
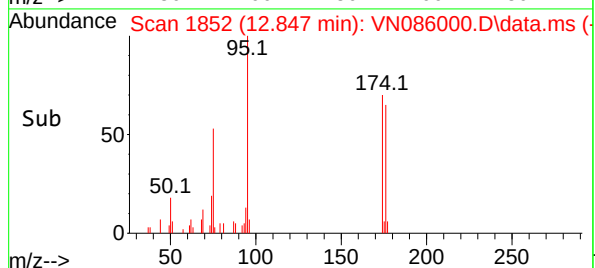
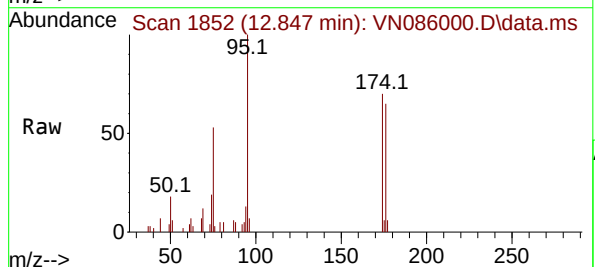
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APPROVED

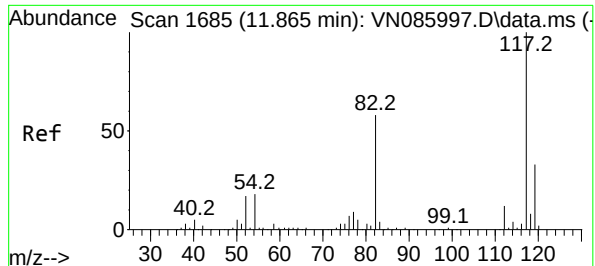
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#62
4-Bromofluorobenzene
Concen: 4.332 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086000.D
Acq: 18 Mar 2025 13:21

Tgt Ion: 95 Resp: 10615
Ion Ratio Lower Upper
95 100
174 81.6 0.0 156.8
176 80.4 0.0 152.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086000.D

Acq: 18 Mar 2025 13:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion:117 Resp: 232728

Ion Ratio Lower Upper

117 100

82 58.5 46.7 70.1

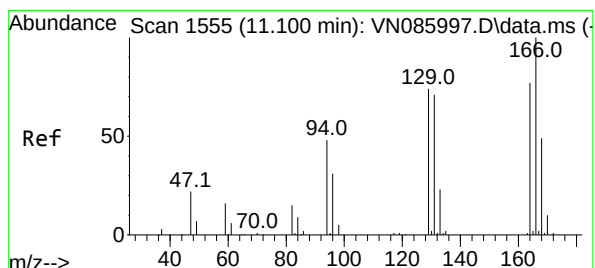
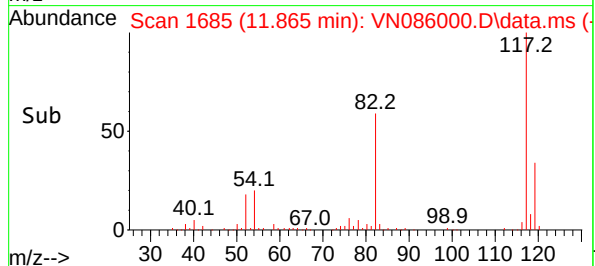
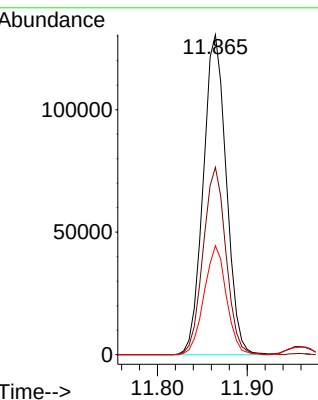
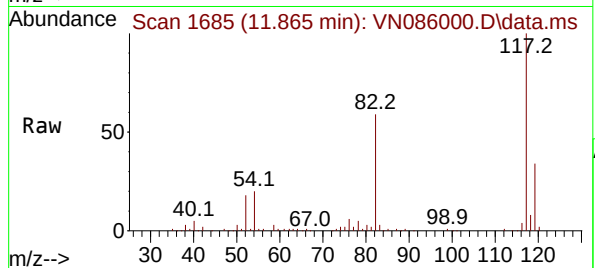
119 34.0 26.5 39.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#64

Tetrachloroethene

Concen: 5.284 ug/l

RT: 11.106 min Scan# 1556

Delta R.T. 0.006 min

Lab File: VN086000.D

Acq: 18 Mar 2025 13:21

Tgt Ion:164 Resp: 9809

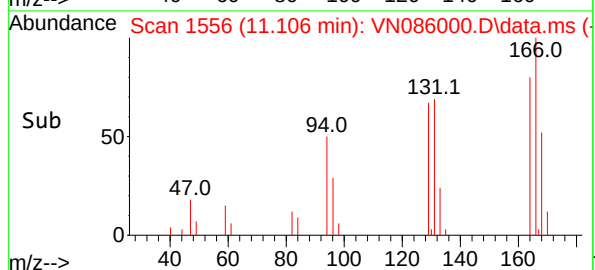
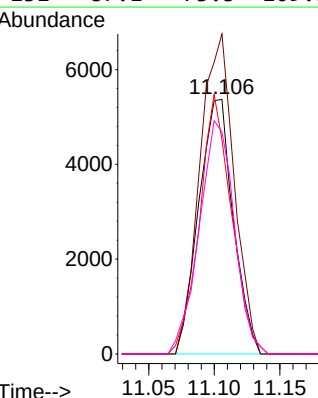
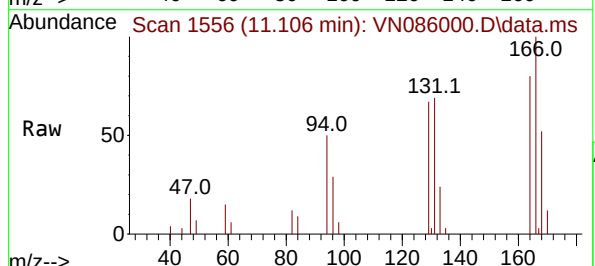
Ion Ratio Lower Upper

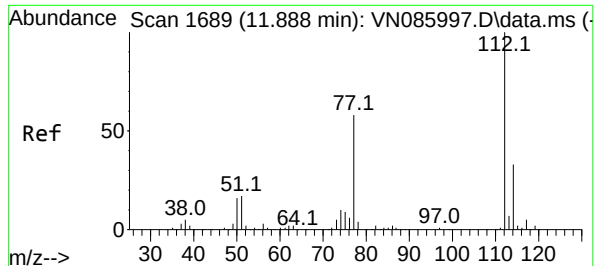
164 100

166 125.7 103.7 155.5

129 84.1 77.1 115.7

131 87.1 73.3 109.9





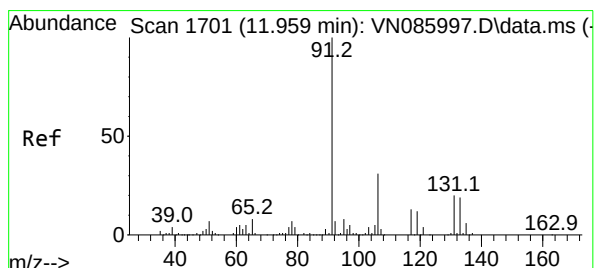
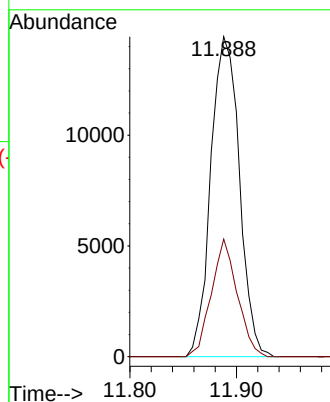
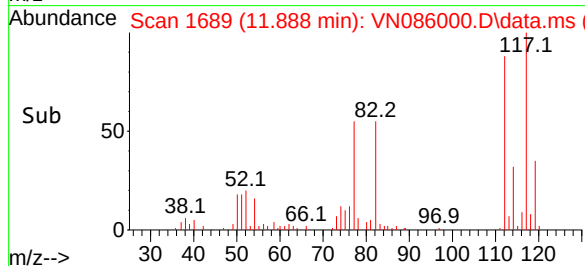
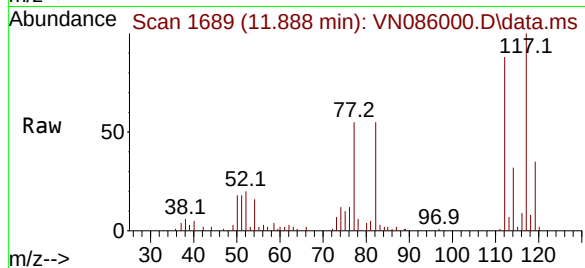
#65
Chlorobenzene
Concen: 5.053 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. -0.000 min
Lab File: VN086000.D
Acq: 18 Mar 2025 13:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion:112 Resp: 26908
Ion Ratio Lower Upper
112 100
114 36.8 26.3 39.5

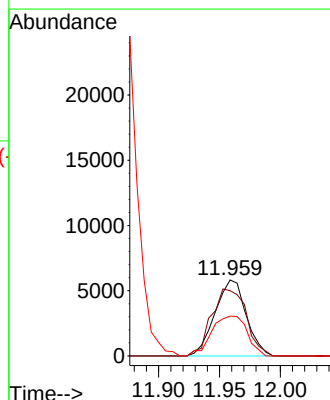
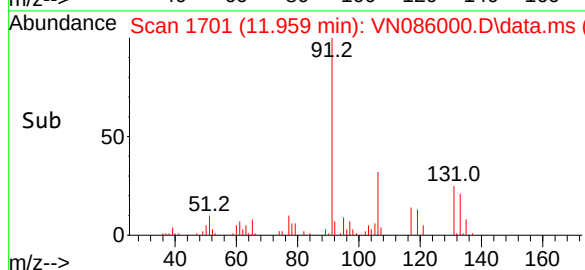
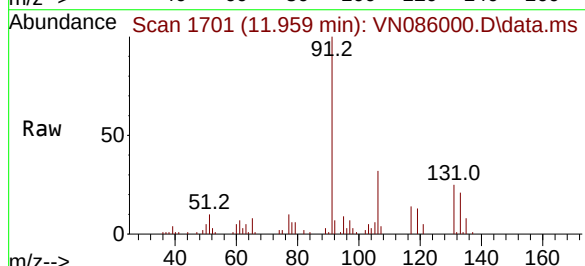
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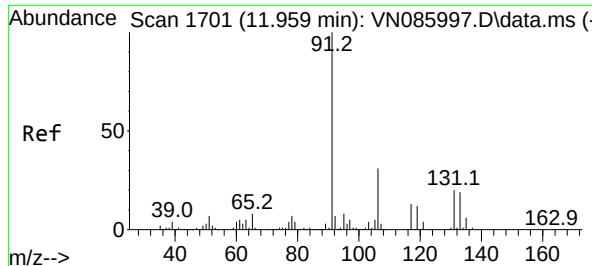
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 5.232 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN086000.D
Acq: 18 Mar 2025 13:21

Tgt Ion:131 Resp: 10358
Ion Ratio Lower Upper
131 100
133 98.3 47.0 141.0
119 59.6 31.4 94.0





#67

Ethyl Benzene

Concen: 4.795 ug/l

RT: 11.965 min Scan# 1702

Delta R.T. 0.006 min

Lab File: VN086000.D

Acq: 18 Mar 2025 13:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 91 Resp: 4084

Ion Ratio Lower Upper

91 100

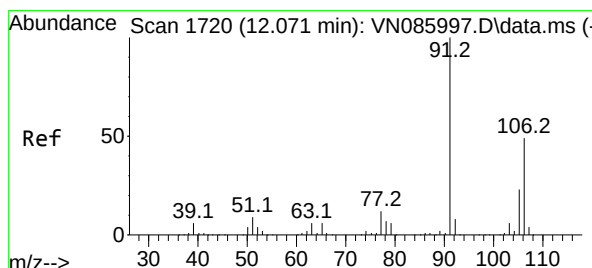
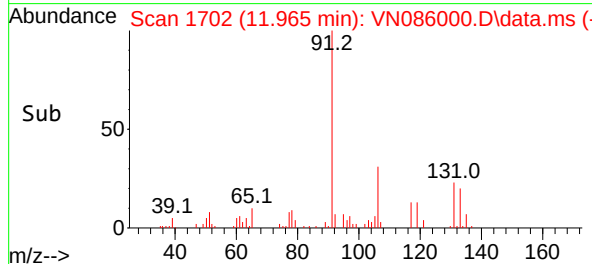
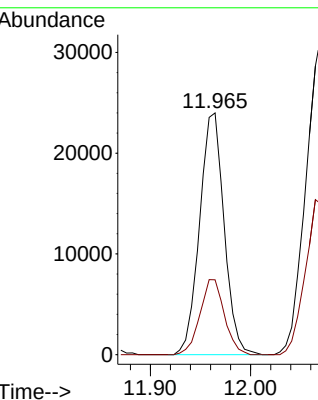
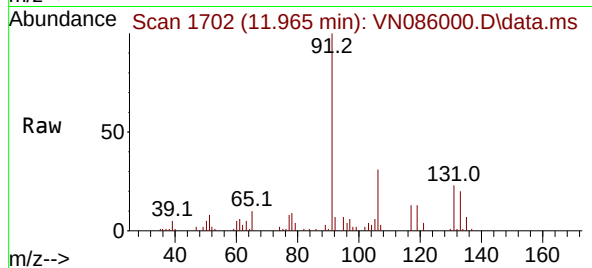
106 31.0 24.5 36.7

Manual Integrations

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Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#68

m/p-Xylenes

Concen: 9.182 ug/l

RT: 12.065 min Scan# 1719

Delta R.T. -0.006 min

Lab File: VN086000.D

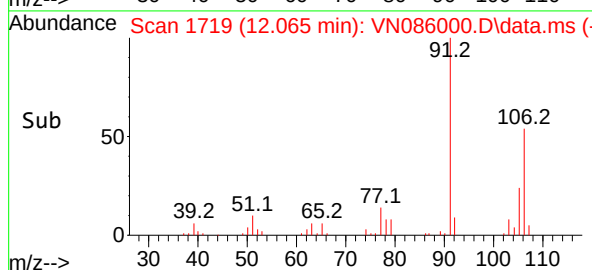
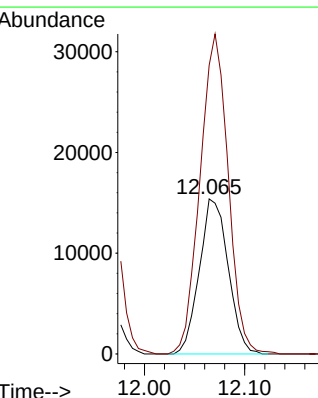
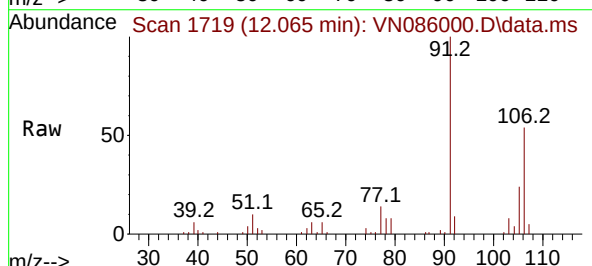
Acq: 18 Mar 2025 13:21

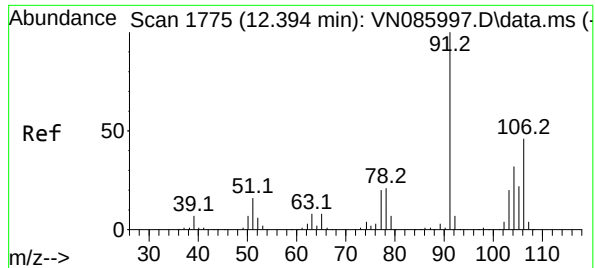
Tgt Ion:106 Resp: 30743

Ion Ratio Lower Upper

106 100

91 201.6 163.9 245.9





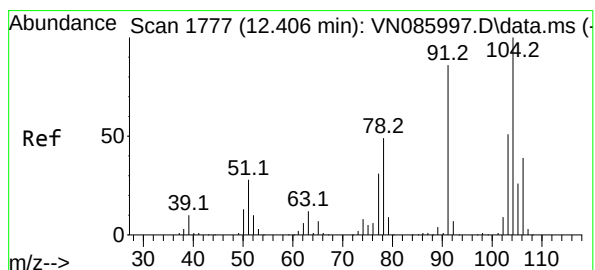
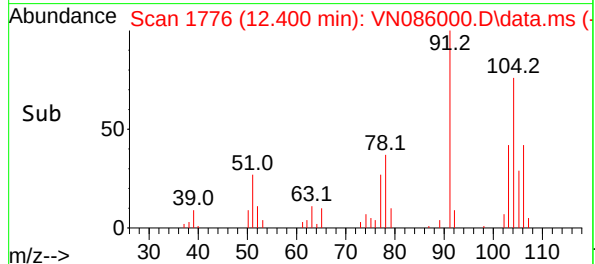
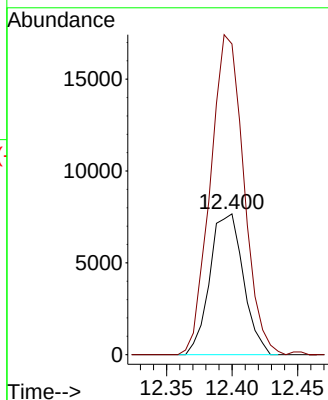
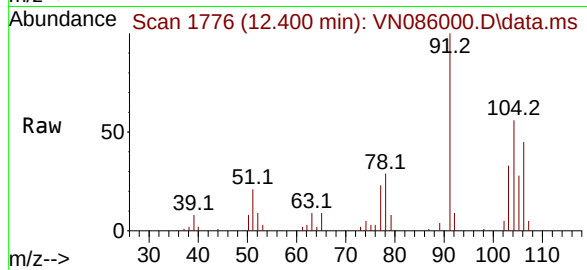
#69
o-Xylene
Concen: 4.427 ug/l
RT: 12.400 min Scan# 1776
Delta R.T. 0.006 min
Lab File: VN086000.D
Acq: 18 Mar 2025 13:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion:106 Resp: 13604
Ion Ratio Lower Upper
106 100
91 227.0 109.1 327.2

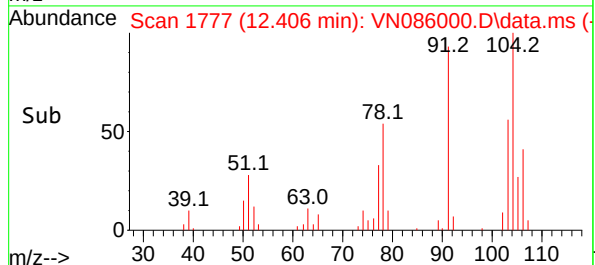
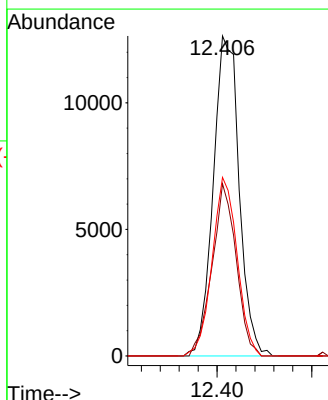
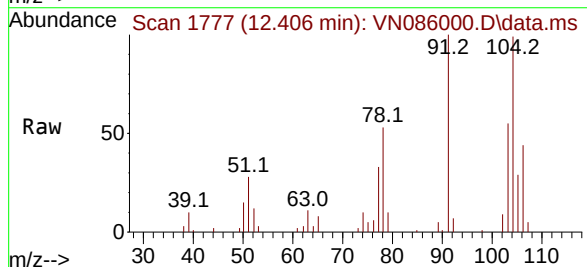
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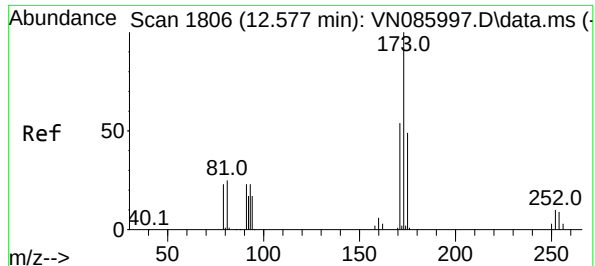
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#70
Styrene
Concen: 4.578 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VN086000.D
Acq: 18 Mar 2025 13:21

Tgt Ion:104 Resp: 24028
Ion Ratio Lower Upper
104 100
78 50.1 41.4 62.2
103 53.9 42.9 64.3





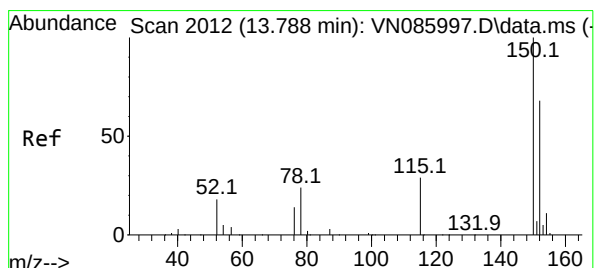
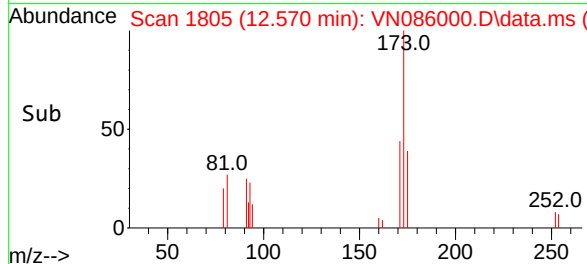
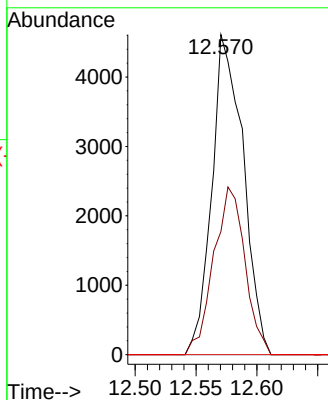
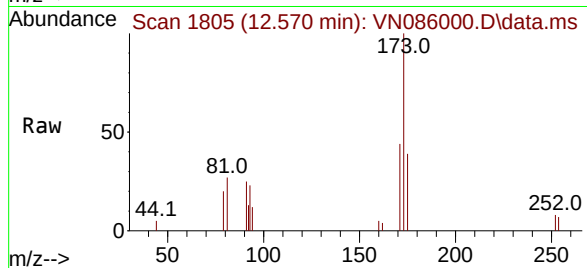
#71
Bromoform
Concen: 4.989 ug/l
RT: 12.570 min Scan# 1805
Delta R.T. -0.006 min
Lab File: VN086000.D
Acq: 18 Mar 2025 13:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion	Ratio	Lower	Upper
173	100		
175	52.4	24.3	73.0
254	0.0	0.0	0.0

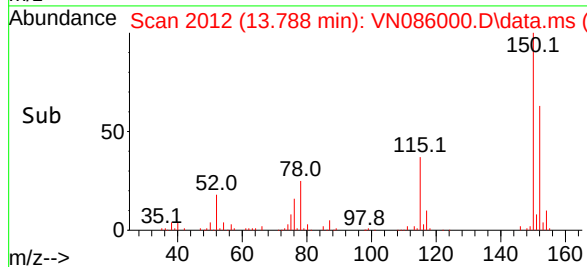
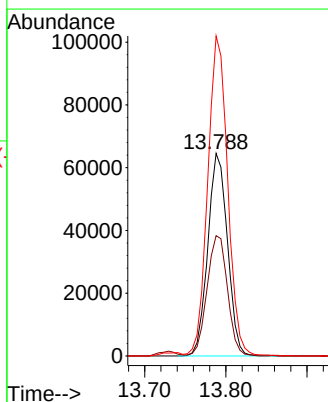
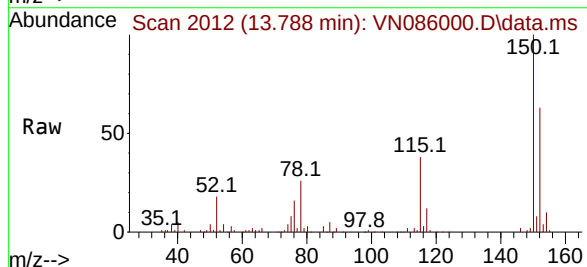
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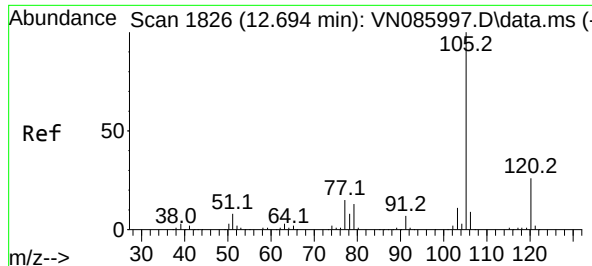
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN086000.D
Acq: 18 Mar 2025 13:21

Tgt Ion	Ratio	Lower	Upper
152	100		
115	61.6	31.1	93.2
150	160.3	0.0	359.6





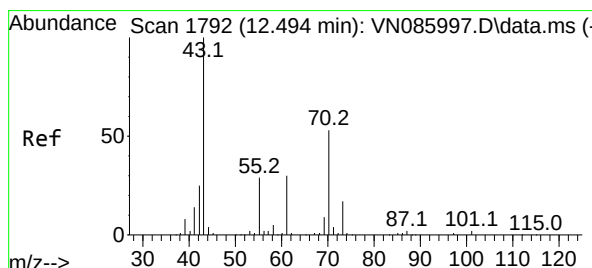
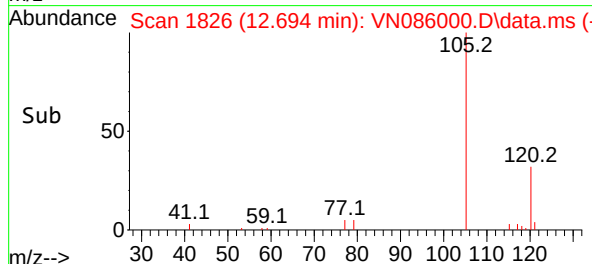
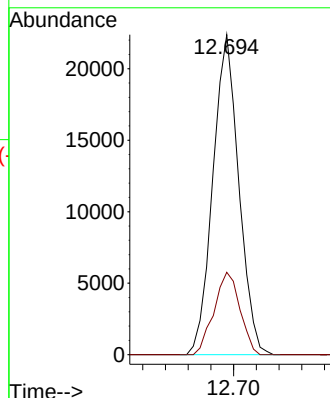
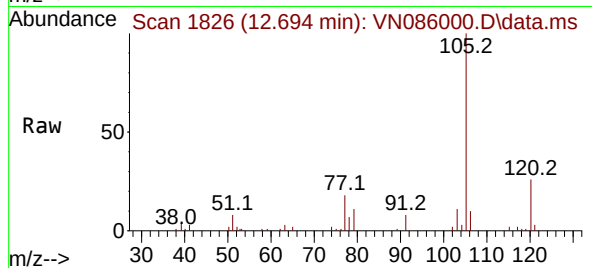
#73
Isopropylbenzene
Concen: 4.780 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. -0.000 min
Lab File: VN086000.D
Acq: 18 Mar 2025 13:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion:105 Resp: 35470
Ion Ratio Lower Upper
105 100
120 25.7 13.0 39.0

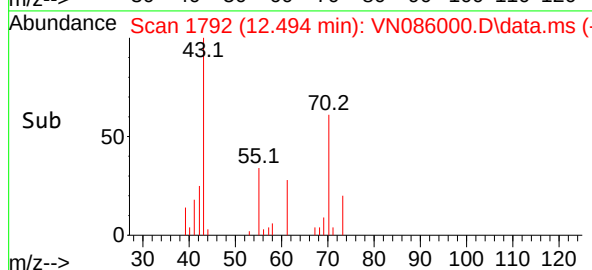
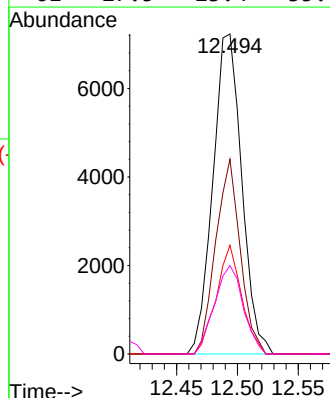
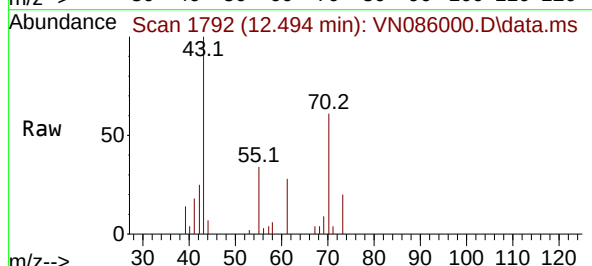
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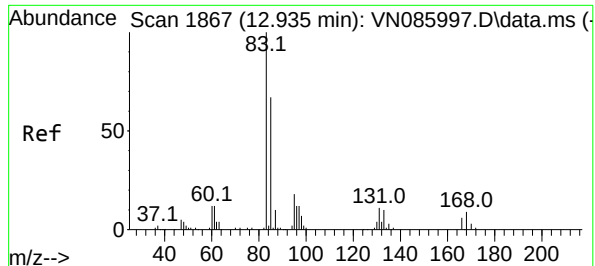
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#74
N-ethyl acetate
Concen: 4.806 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. -0.000 min
Lab File: VN086000.D
Acq: 18 Mar 2025 13:21

Tgt Ion: 43 Resp: 11933
Ion Ratio Lower Upper
43 100
70 51.9 43.0 64.4
55 30.0 23.8 35.8
61 27.5 23.4 35.0





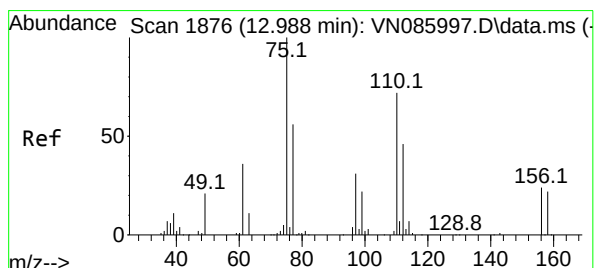
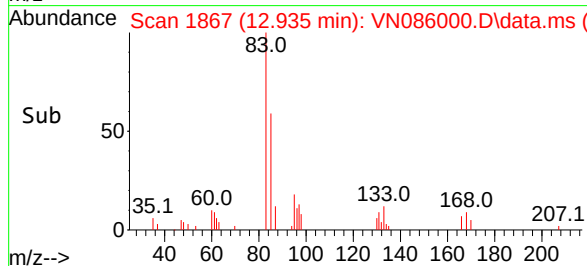
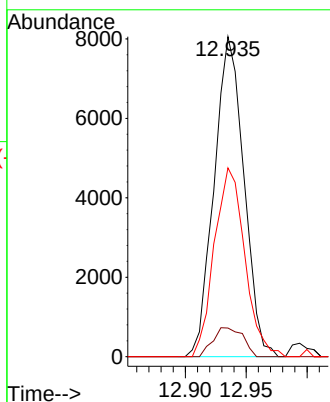
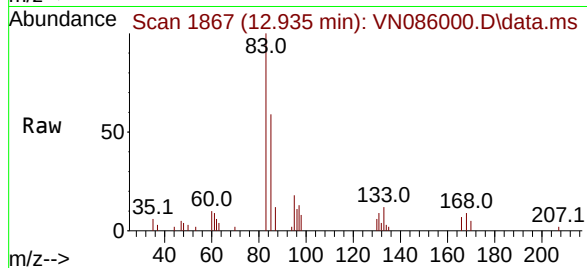
#75
1,1,2,2-Tetrachloroethane
Concen: 5.457 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. -0.000 min
Lab File: VN086000.D
Acq: 18 Mar 2025 13:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion: 83 Resp: 13700
Ion Ratio Lower Upper
83 100
131 9.1 5.5 16.5
85 60.4 32.6 97.8

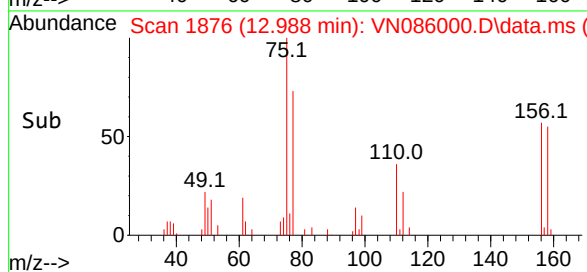
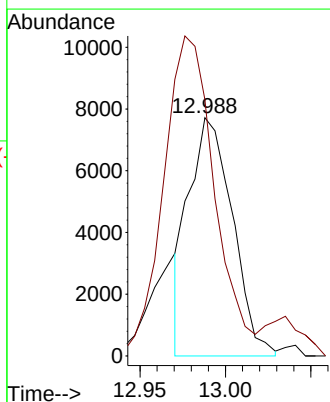
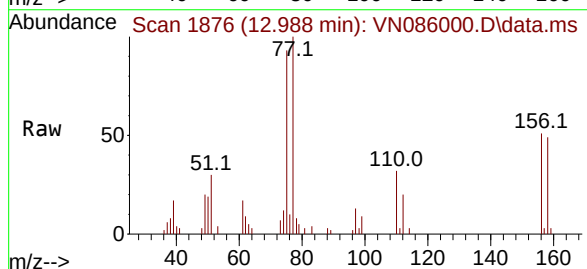
Manual Integrations
APPROVED

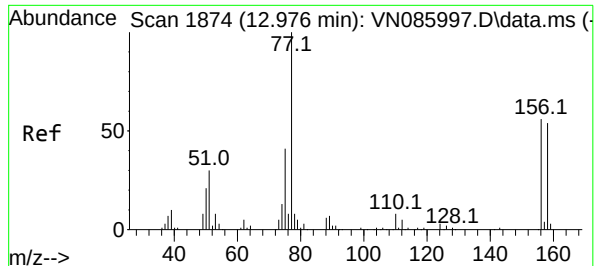
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#76
1,2,3-Trichloropropane
Concen: 5.543 ug/l m
RT: 12.988 min Scan# 1876
Delta R.T. -0.000 min
Lab File: VN086000.D
Acq: 18 Mar 2025 13:21

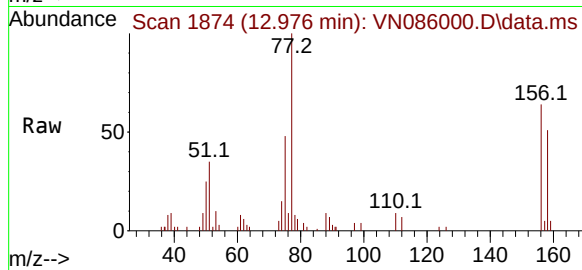
Tgt Ion: 75 Resp: 13734
Ion Ratio Lower Upper
75 100
77 156.4 83.7 251.0





#77
Bromobenzene
Concen: 5.222 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. -0.000 min
Lab File: VN086000.D
Acq: 18 Mar 2025 13:21

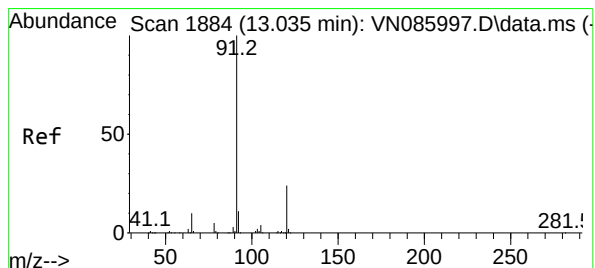
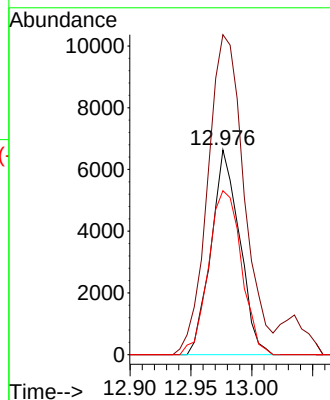
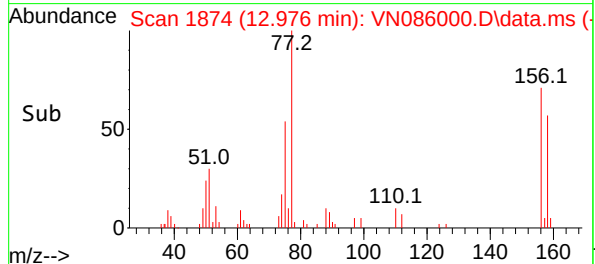
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005



Tgt Ion:156 Resp: 1080
Ion Ratio Lower Upper
156 100
77 198.8 104.1 312.3
158 92.3 49.0 147.0

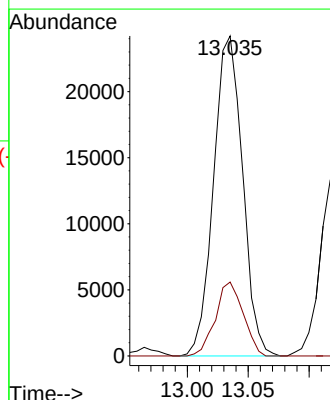
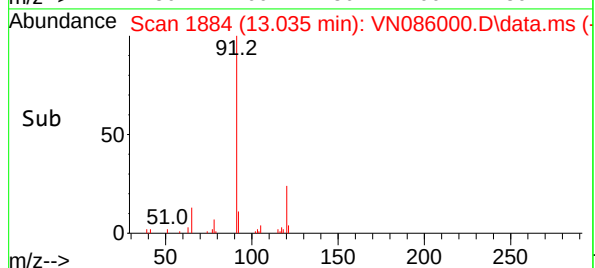
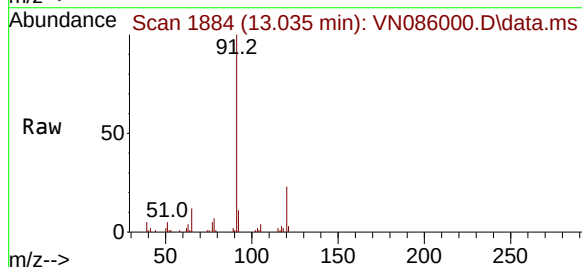
Manual Integrations
APPROVED

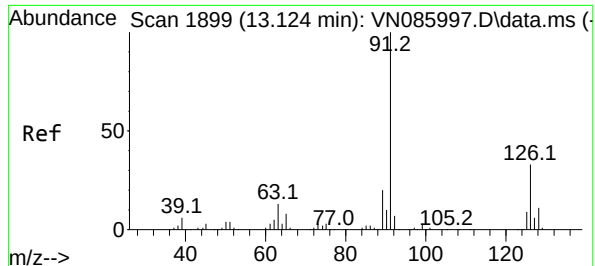
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#78
n-propylbenzene
Concen: 4.766 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN086000.D
Acq: 18 Mar 2025 13:21

Tgt Ion: 91 Resp: 40052
Ion Ratio Lower Upper
91 100
120 22.1 11.7 35.0





#79

2-Chlorotoluene

Concen: 5.011 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. -0.000 min

Lab File: VN086000.D

Acq: 18 Mar 2025 13:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 91 Resp: 27970

Ion Ratio Lower Upper

91 100

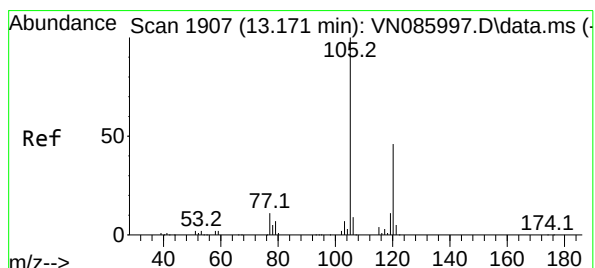
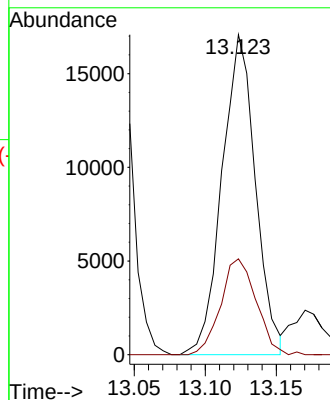
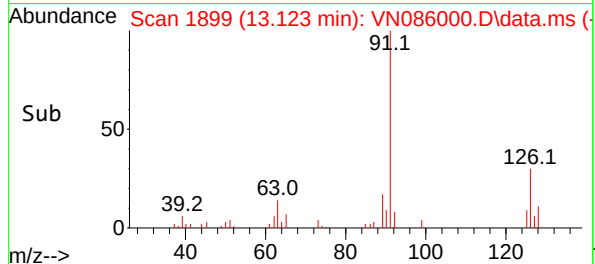
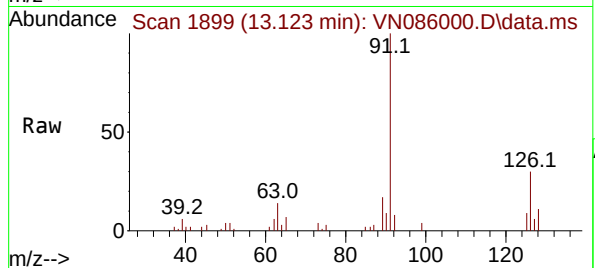
126 31.9 16.4 49.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#80

1,3,5-Trimethylbenzene

Concen: 4.576 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VN086000.D

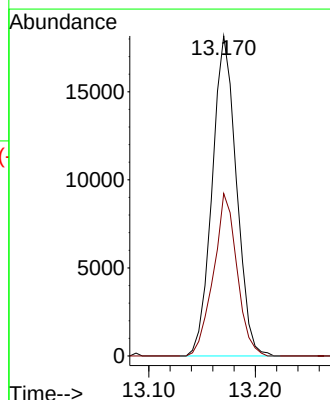
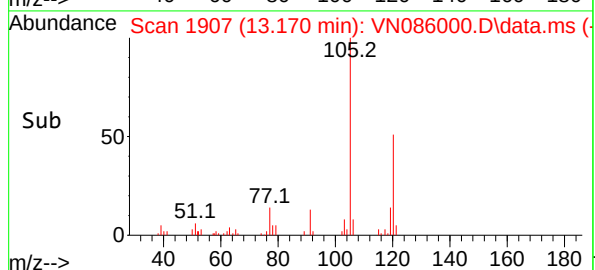
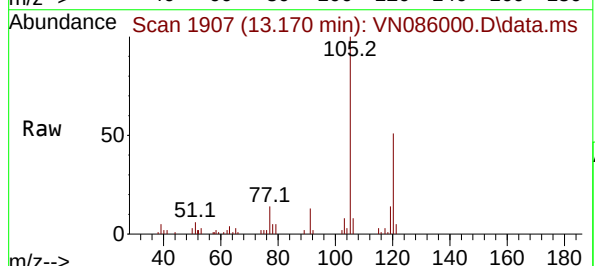
Acq: 18 Mar 2025 13:21

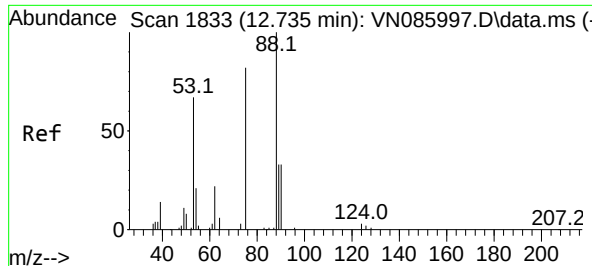
Tgt Ion:105 Resp: 28674

Ion Ratio Lower Upper

105 100

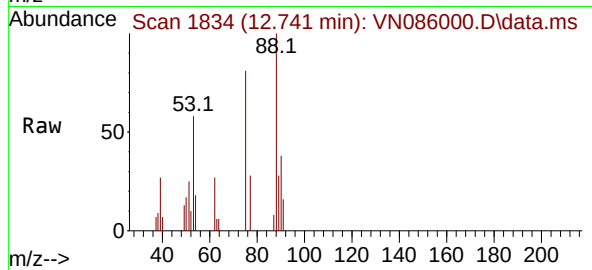
120 49.3 23.7 71.1





#81
trans-1,4-Dichloro-2-butene
Concen: 4.688 ug/l
RT: 12.741 min Scan# 1834
Delta R.T. 0.006 min
Lab File: VN086000.D
Acq: 18 Mar 2025 13:21

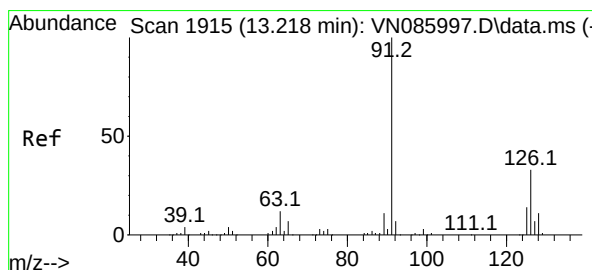
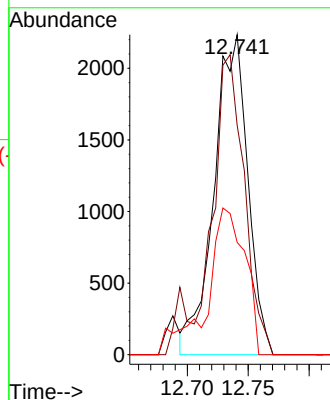
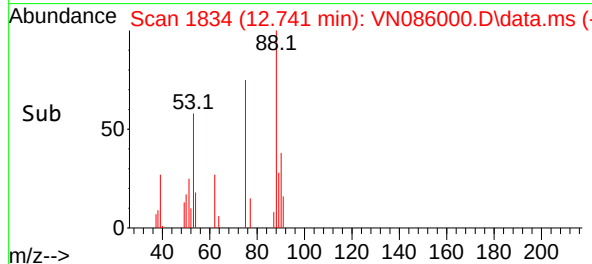
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005



Tgt Ion: 75 Resp: 4314
Ion Ratio Lower Upper
75 100
53 83.7 66.0 99.0
89 51.6 36.9 55.3

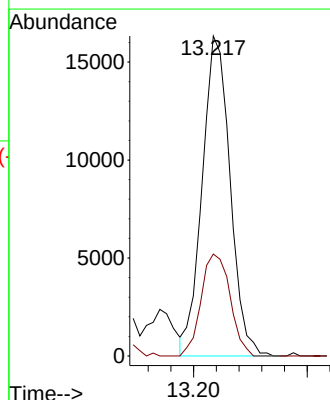
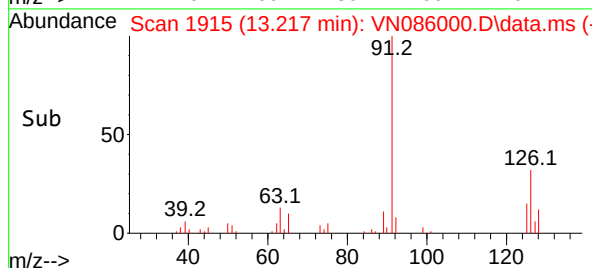
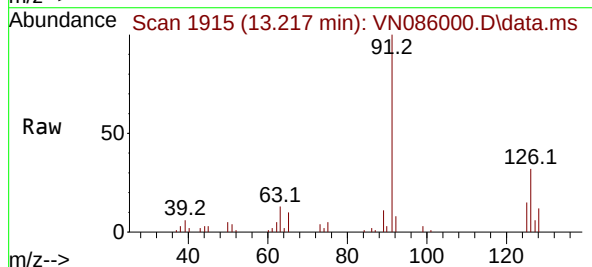
Manual Integrations
APPROVED

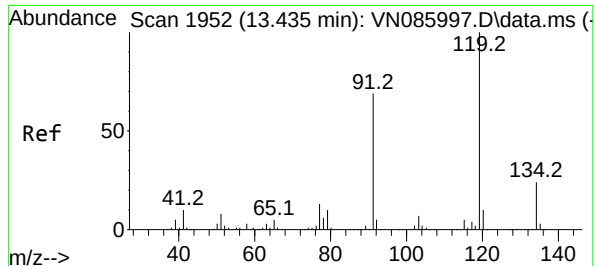
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#82
4-Chlorotoluene
Concen: 4.859 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. -0.000 min
Lab File: VN086000.D
Acq: 18 Mar 2025 13:21

Tgt Ion: 91 Resp: 27891
Ion Ratio Lower Upper
91 100
126 33.0 16.1 48.2





#83

tert-Butylbenzene

Concen: 4.621 ug/l

RT: 13.435 min Scan# 1952

Delta R.T. -0.000 min

Lab File: VN086000.D

Acq: 18 Mar 2025 13:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion:119 Resp: 24760

Ion Ratio Lower Upper

119 100

91 70.6 34.3 102.9

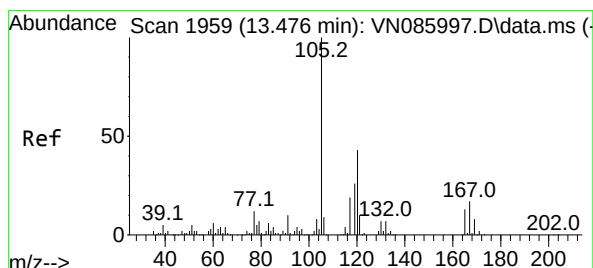
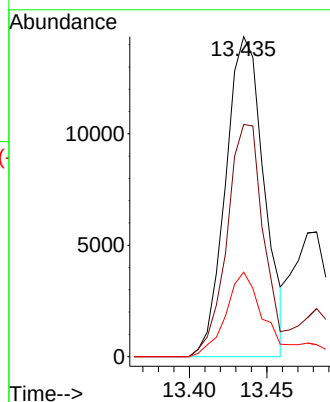
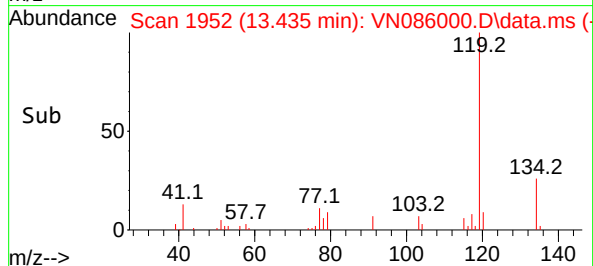
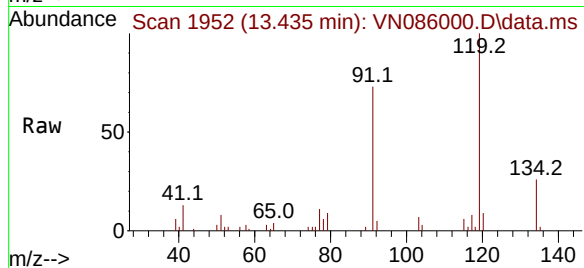
134 26.2 13.5 40.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#84

1,2,4-Trimethylbenzene

Concen: 4.615 ug/l

RT: 13.482 min Scan# 1960

Delta R.T. 0.006 min

Lab File: VN086000.D

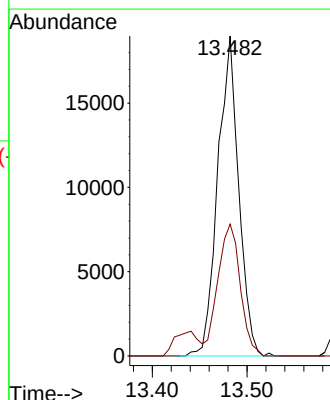
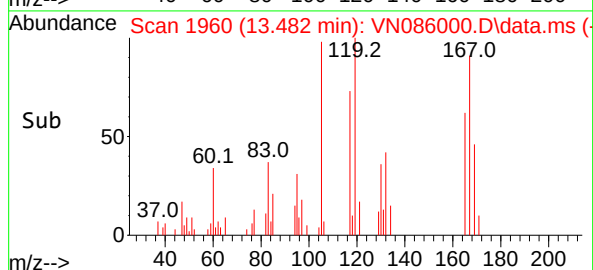
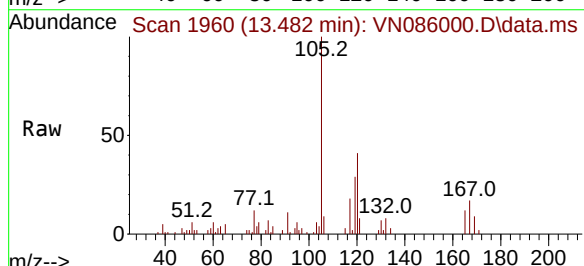
Acq: 18 Mar 2025 13:21

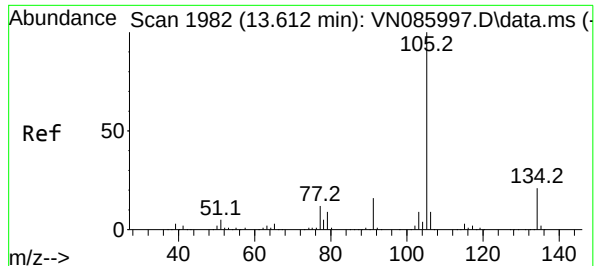
Tgt Ion:105 Resp: 29165

Ion Ratio Lower Upper

105 100

120 44.2 21.9 65.8





#85

sec-Butylbenzene

Concen: 4.677 ug/l

RT: 13.617 min Scan# 1982

Delta R.T. 0.006 min

Lab File: VN086000.D

Acq: 18 Mar 2025 13:21

Instrument :

MSVOA_N

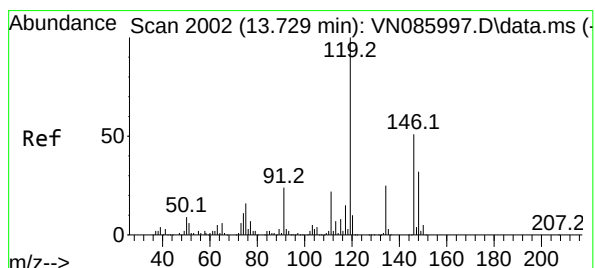
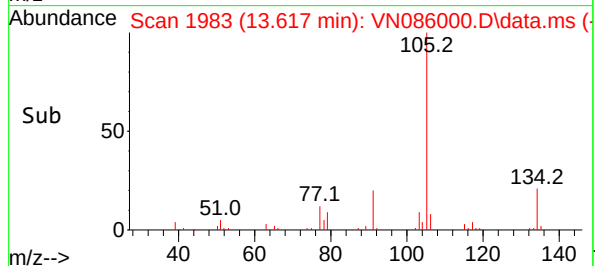
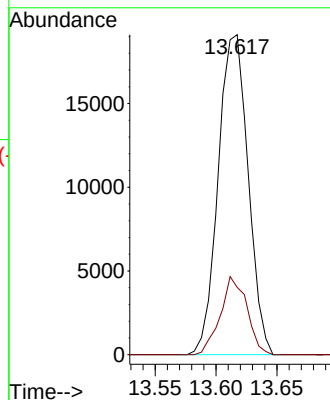
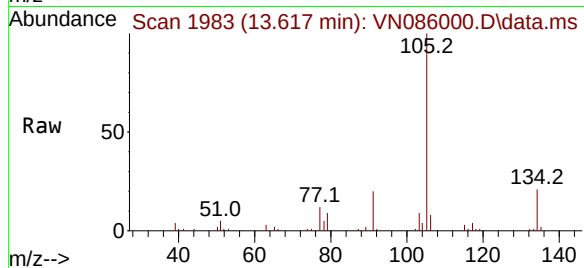
ClientSampleId :

VSTDIC005

Tgt Ion:105 Resp: 32694
Ion Ratio Lower Upper
105 100
134 21.7 10.1 30.1

Manual Integrations
APPROVED

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



#86

p-Isopropyltoluene

Concen: 4.425 ug/l

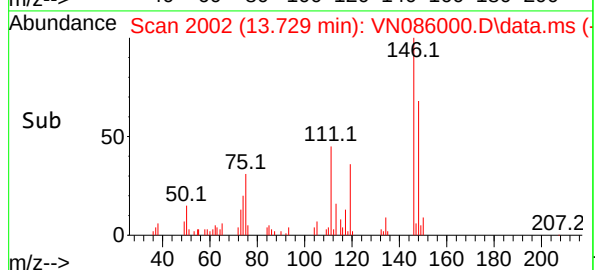
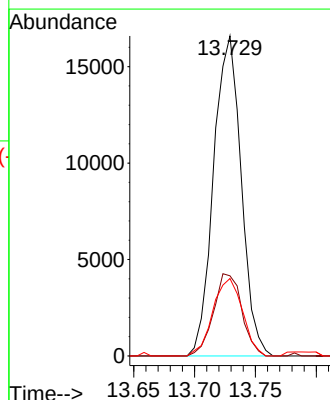
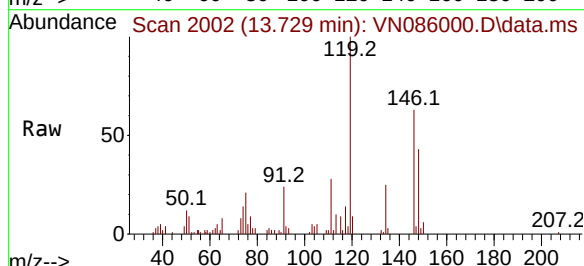
RT: 13.729 min Scan# 2002

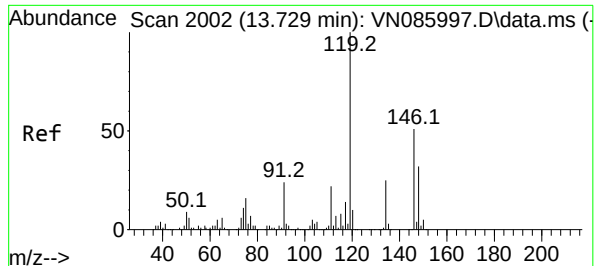
Delta R.T. -0.000 min

Lab File: VN086000.D

Acq: 18 Mar 2025 13:21

Tgt Ion:119 Resp: 26188
Ion Ratio Lower Upper
119 100
134 26.3 12.6 37.8
91 26.0 12.3 36.8





#87

1,3-Dichlorobenzene

Concen: 5.004 ug/l

RT: 13.735 min Scan# 2002

Delta R.T. 0.006 min

Lab File: VN086000.D

Acq: 18 Mar 2025 13:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

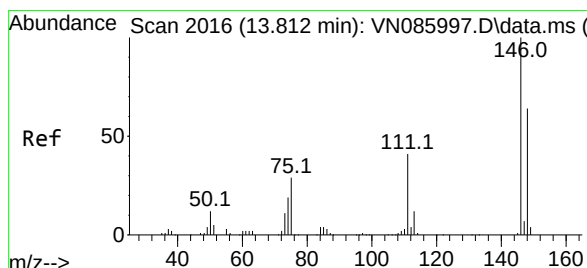
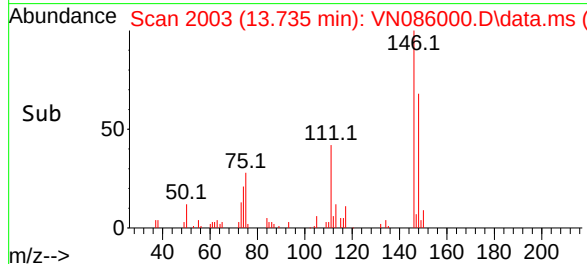
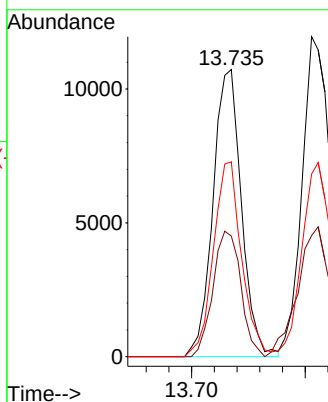
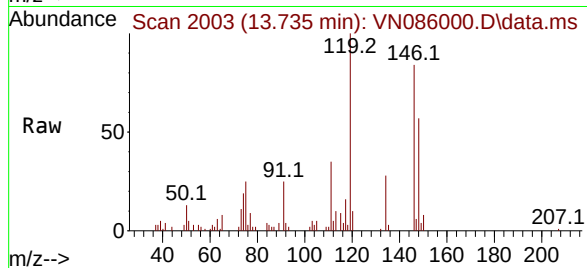
Tgt Ion:146	Resp:	1866
Ion Ratio	Lower	Upper
146	100	
111	42.7	21.2 63.6
148	67.4	31.8 95.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#88

1,4-Dichlorobenzene

Concen: 5.288 ug/l

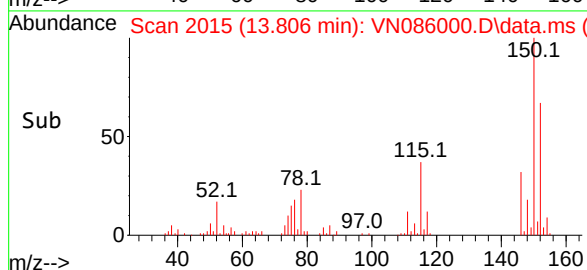
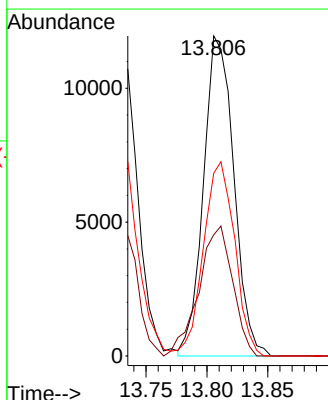
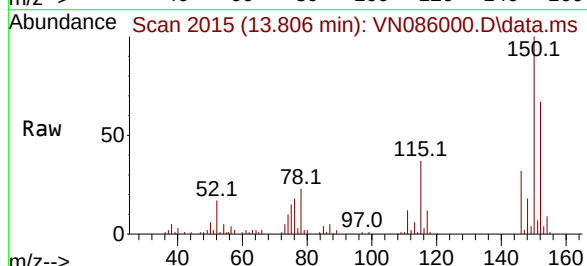
RT: 13.806 min Scan# 2015

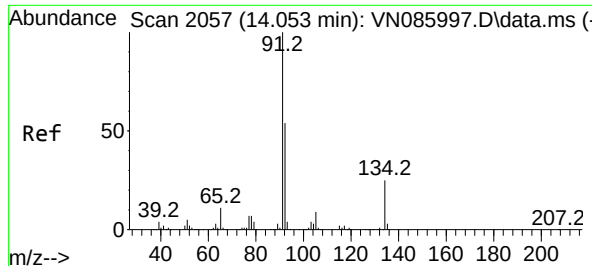
Delta R.T. -0.006 min

Lab File: VN086000.D

Acq: 18 Mar 2025 13:21

Tgt Ion:146	Resp:	20725
Ion Ratio	Lower	Upper
146	100	
111	45.3	20.4 61.3
148	62.6	32.1 96.5





#89

n-Butylbenzene

Concen: 4.468 ug/l

RT: 14.059 min Scan# 2057

Delta R.T. 0.006 min

Lab File: VN086000.D

Acq: 18 Mar 2025 13:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

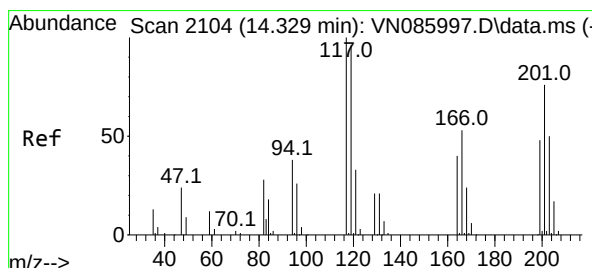
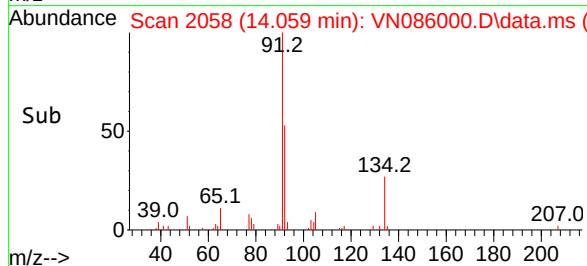
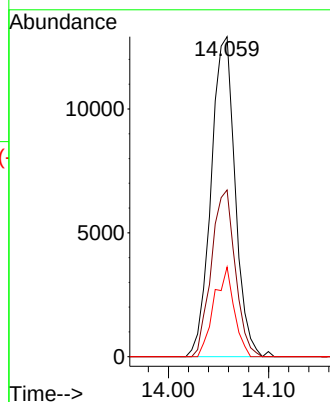
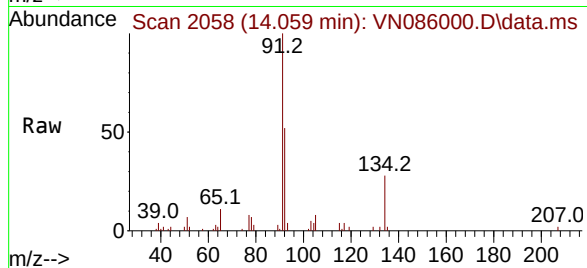
Tgt Ion:	91	Resp:	21529
Ion	Ratio	Lower	Upper
91	100		
92	51.7	26.9	80.6
134	23.4	13.0	39.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#90

Hexachloroethane

Concen: 5.154 ug/l

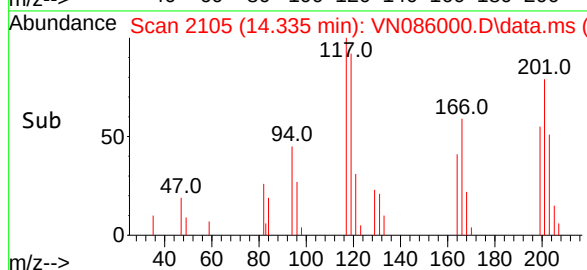
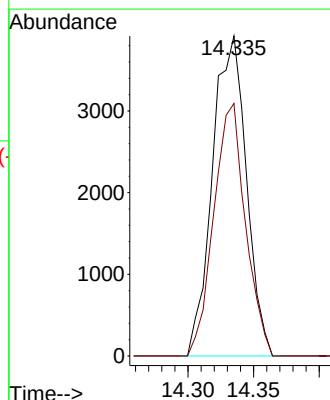
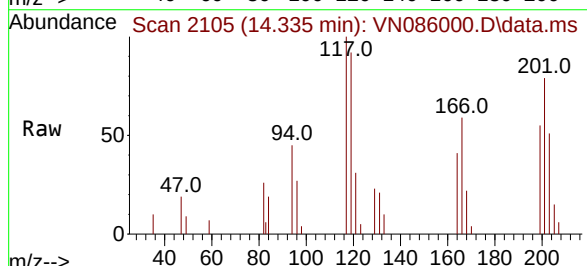
RT: 14.335 min Scan# 2105

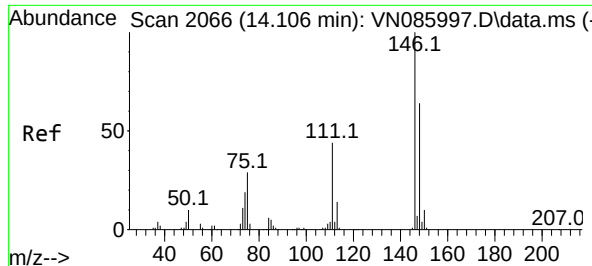
Delta R.T. 0.006 min

Lab File: VN086000.D

Acq: 18 Mar 2025 13:21

Tgt Ion:	117	Resp:	7037
Ion	Ratio	Lower	Upper
117	100		
201	73.8	39.1	117.3





#91

1,2-Dichlorobenzene

Concen: 5.052 ug/l

RT: 14.106 min Scan# 2066

Delta R.T. -0.000 min

Lab File: VN086000.D

Acq: 18 Mar 2025 13:21

Instrument :

MSVOA_N

ClientSampleId :

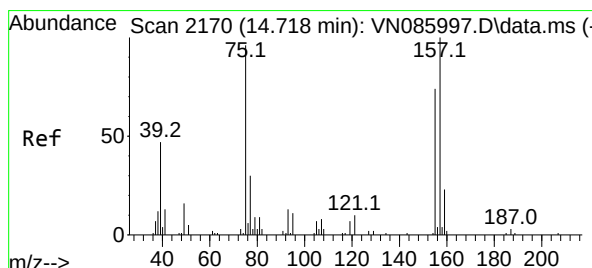
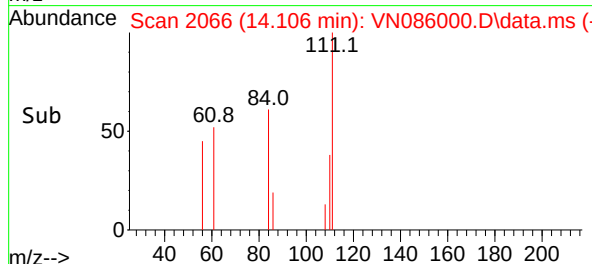
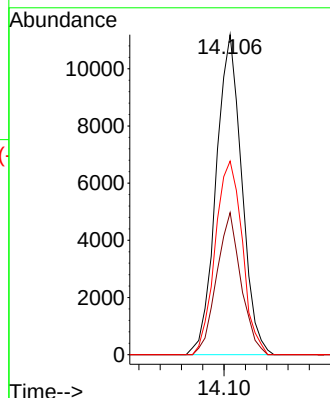
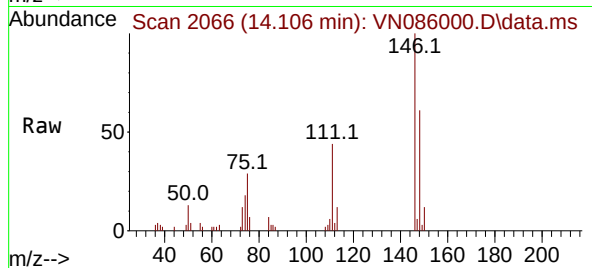
VSTDIC005

Tgt Ion:	146	Resp:	1873
Ion Ratio	Lower	Upper	
146	100		
111	42.1	22.3	66.8
148	63.8	32.1	96.5

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#92

1,2-Dibromo-3-Chloropropane

Concen: 5.415 ug/l

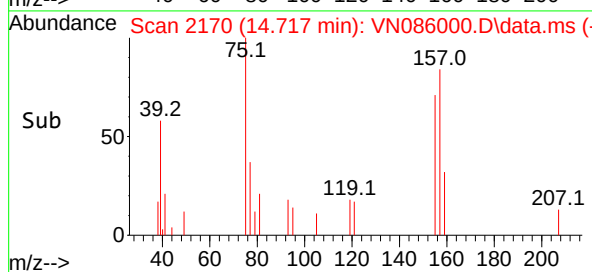
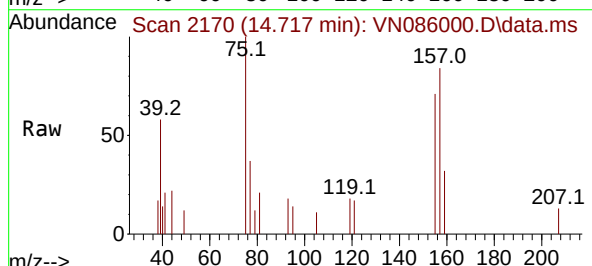
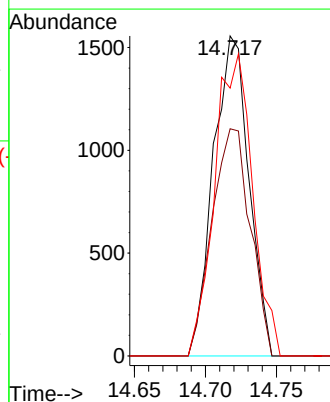
RT: 14.717 min Scan# 2170

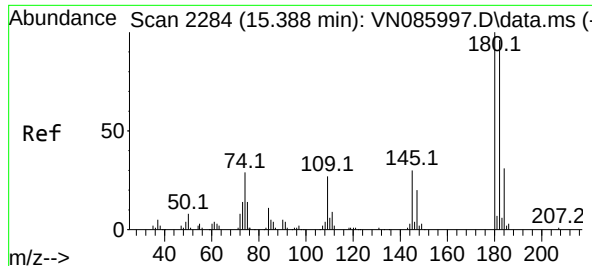
Delta R.T. -0.000 min

Lab File: VN086000.D

Acq: 18 Mar 2025 13:21

Tgt Ion:	75	Resp:	2714
Ion Ratio	Lower	Upper	
75	100		
155	76.3	41.0	123.0
157	100.4	53.7	161.1





#93

1,2,4-Trichlorobenzene

Concen: 4.962 ug/l

RT: 15.394 min Scan# 21

Delta R.T. 0.006 min

Lab File: VN086000.D

Acq: 18 Mar 2025 13:21

Instrument :

MSVOA_N

ClientSampleId :

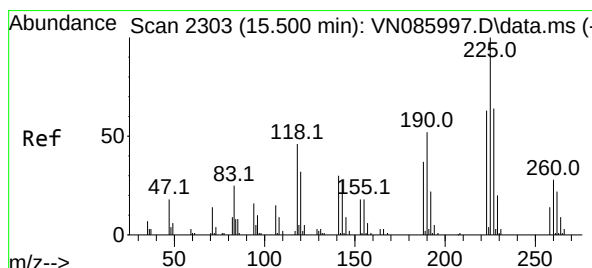
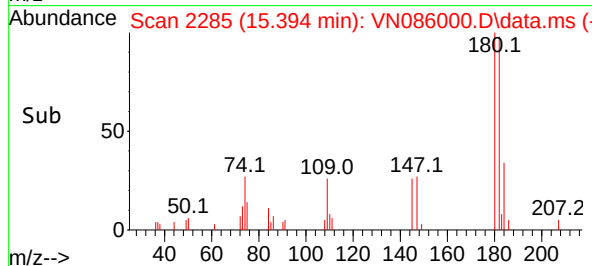
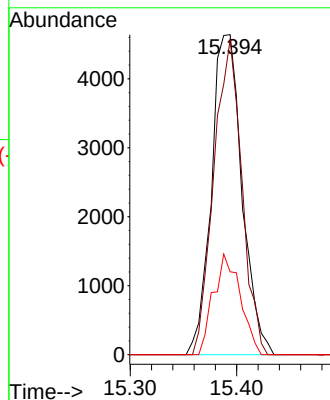
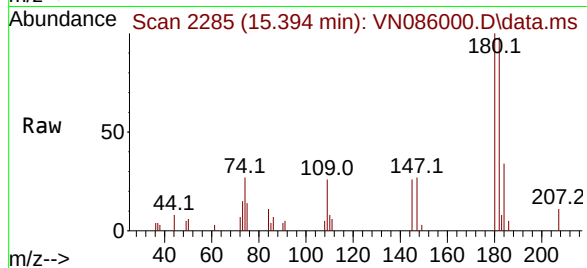
VSTDIC005

Tgt Ion:	180	Resp:	925
Ion Ratio	Lower	Upper	
180	100		
182	89.9	47.0	141.0
145	27.5	15.5	46.5

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#94

Hexachlorobutadiene

Concen: 5.240 ug/l

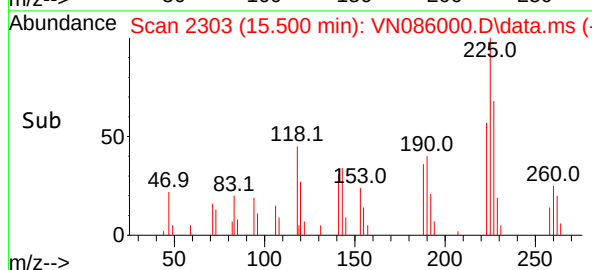
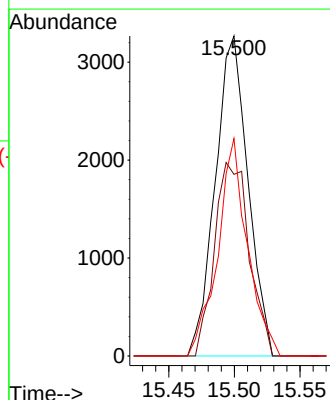
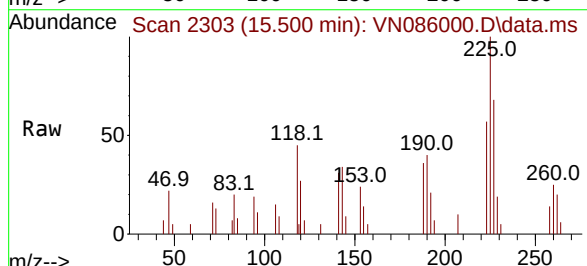
RT: 15.500 min Scan# 2303

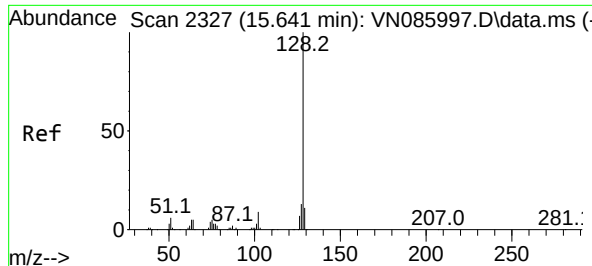
Delta R.T. -0.000 min

Lab File: VN086000.D

Acq: 18 Mar 2025 13:21

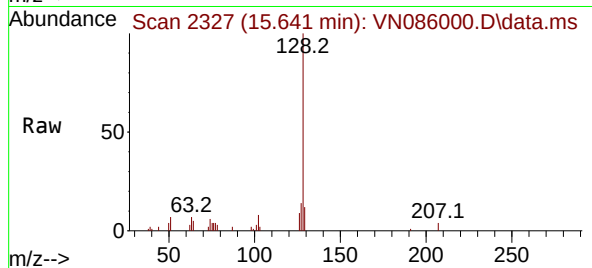
Tgt Ion:	225	Resp:	5668
Ion Ratio	Lower	Upper	
225	100		
223	64.4	31.3	93.9
227	61.7	32.1	96.3





#95
Naphthalene
Concen: 4.450 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. -0.000 min
Lab File: VN086000.D
Acq: 18 Mar 2025 13:21

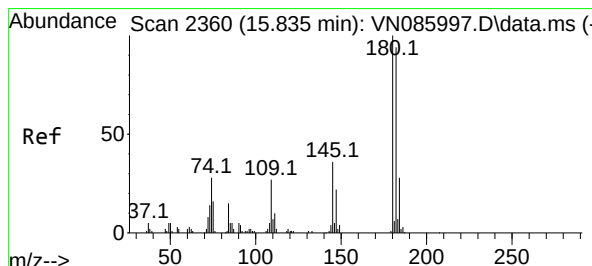
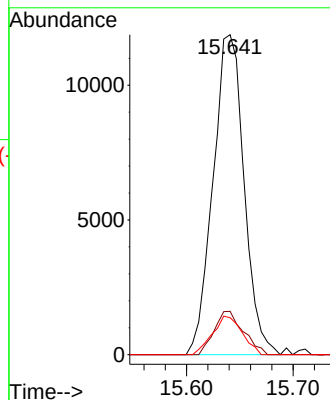
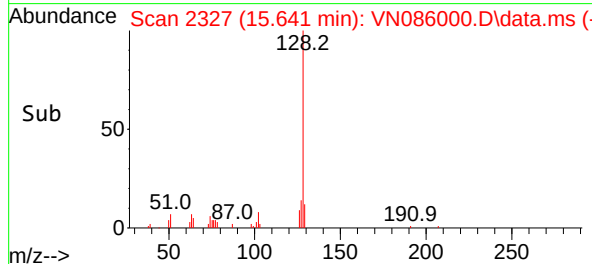
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005



Tgt Ion:128 Resp: 2402
Ion Ratio Lower Upper
128 100
127 12.8 10.2 15.4
129 11.5 9.0 13.6

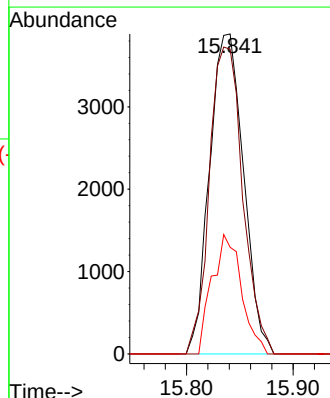
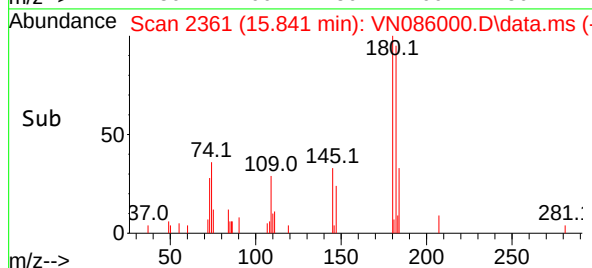
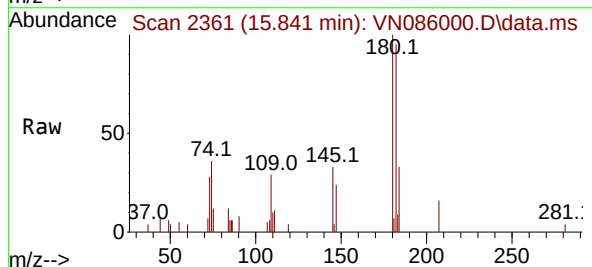
Manual Integrations
APPROVED

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



#96
1,2,3-Trichlorobenzene
Concen: 4.858 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. 0.006 min
Lab File: VN086000.D
Acq: 18 Mar 2025 13:21

Tgt Ion:180 Resp: 8594
Ion Ratio Lower Upper
180 100
182 94.2 47.5 142.5
145 32.3 17.7 53.1



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031825\
 Data File : VN086001.D
 Acq On : 18 Mar 2025 14:09
 Operator : JC\MD
 Sample : VSTDIC001
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC001

Quant Time: Mar 19 02:57:23 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 19 02:30:27 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

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

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	145853	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	249612	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	206893	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	83272	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	1979	1.024	ug/l	86
3) Chloromethane	2.359	50	1992	1.176	ug/l	99
4) Vinyl Chloride	2.512	62	1726	0.996	ug/l #	74
6) Chloroethane	3.124	64	1302	1.192	ug/l	90
7) Trichlorofluoromethane	3.500	101	3696	1.187	ug/l	86
8) Diethyl Ether	3.959	74	980	1.028	ug/l	75
9) 1,1,2-Trichlorotrifluo...	4.365	101	1923m	1.162	ug/l	
12) 1,1-Dichloroethene	4.347	96	1210	0.810	ug/l #	69
14) Allyl chloride	5.024	41	1936	1.039	ug/l #	85
15) Acrylonitrile	5.724	53	3682	4.930	ug/l #	68
16) Acetone	4.436	43	3256	5.336	ug/l	99
17) Carbon Disulfide	4.706	76	6146	1.251	ug/l #	94
18) Methyl Acetate	5.024	43	1947	1.290	ug/l #	77
19) Methyl tert-butyl Ether	5.794	73	4880	0.997	ug/l #	91
20) Methylene Chloride	5.271	84	2132	1.194	ug/l #	80
21) trans-1,2-Dichloroethene	5.794	96	1725	1.056	ug/l #	76
22) Diisopropyl ether	6.677	45	3402m	0.856	ug/l	
23) Vinyl Acetate	6.606	43	12634	4.195	ug/l	98
24) 1,1-Dichloroethane	6.577	63	3295m	1.128	ug/l	
25) 2-Butanone	7.482	43	4310	4.895	ug/l	95
26) 2,2-Dichloropropane	7.482	77	2930	1.042	ug/l #	68
27) cis-1,2-Dichloroethene	7.488	96	1845	0.994	ug/l	90
28) Bromochloromethane	7.812	49	1520	1.228	ug/l #	98
29) Tetrahydrofuran	7.841	42	2219	4.082	ug/l #	81
30) Chloroform	7.959	83	3631	1.125	ug/l	91
32) 1,1,1-Trichloroethane	8.165	97	3278	1.072	ug/l #	42
36) 1,1-Dichloropropene	8.376	75	2281	0.994	ug/l	97
37) Ethyl Acetate	7.559	43	1939m	1.002	ug/l	
38) Carbon Tetrachloride	8.365	117	3114	1.032	ug/l #	95
39) Methylcyclohexane	9.594	83	2186	0.960	ug/l	92
40) Benzene	8.606	78	7317	1.016	ug/l	96
41) Methacrylonitrile	7.777	41	657	0.711	ug/l #	72
42) 1,2-Dichloroethane	8.671	62	2601	1.036	ug/l	80
43) Isopropyl Acetate	8.694	43	5607	1.334	ug/l #	75
44) Trichloroethene	9.347	130	2173	1.164	ug/l	74
45) 1,2-Dichloropropane	9.623	63	1541	0.941	ug/l #	83

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031825\
 Data File : VN086001.D
 Acq On : 18 Mar 2025 14:09
 Operator : JC\MD
 Sample : VSTDICC001
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC001

Quant Time: Mar 19 02:57:23 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 19 02:30:27 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

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

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) Dibromomethane	9.700	93	1370	1.064	ug/l	90
47) Bromodichloromethane	9.882	83	2680	0.995	ug/l #	82
48) Methyl methacrylate	9.682	41	1275	0.921	ug/l #	77
49) 1,4-Dioxane	9.688	88	458	13.999	ug/l #	47
51) 4-Methyl-2-Pentanone	10.447	43	7154	3.868	ug/l	94
52) Toluene	10.629	92	3631	0.821	ug/l	95
53) t-1,3-Dichloropropene	10.835	75	2225	0.851	ug/l	100
54) cis-1,3-Dichloropropene	10.312	75	2318	0.840	ug/l	89
55) 1,1,2-Trichloroethane	11.018	97	1670	0.990	ug/l #	86
56) Ethyl methacrylate	10.870	69	1488	0.886	ug/l	90
57) 1,3-Dichloropropane	11.159	76	2752	0.960	ug/l	96
58) 2-Chloroethyl Vinyl ether	10.159	63	3357	7.514	ug/l	99
59) 2-Hexanone	11.194	43	5032	3.734	ug/l	87
60) Dibromochloromethane	11.359	129	2077	0.954	ug/l	92
61) 1,2-Dibromoethane	11.465	107	1624	0.938	ug/l	94
64) Tetrachloroethene	11.106	164	1792	1.086	ug/l	92
65) Chlorobenzene	11.888	112	5000	1.056	ug/l	91
66) 1,1,1,2-Tetrachloroethane	11.953	131	1843	1.047	ug/l #	66
67) Ethyl Benzene	11.964	91	6561	0.866	ug/l	99
68) m/p-Xylenes	12.070	106	5319	1.787	ug/l	82
69) o-Xylene	12.400	106	2200	0.805	ug/l	92
70) Styrene	12.412	104	3823	0.819	ug/l	87
71) Bromoform	12.576	173	1536	1.044	ug/l #	91
73) Isopropylbenzene	12.694	105	5061	0.890	ug/l	97
74) N-amyl acetate	12.494	43	1639	0.861	ug/l #	91
75) 1,1,2,2-Tetrachloroethane	12.935	83	2184	1.135	ug/l #	91
76) 1,2,3-Trichloropropane	12.994	75	1541m	0.812	ug/l	
77) Bromobenzene	12.976	156	1666	1.051	ug/l	98
78) n-propylbenzene	13.035	91	5242	0.814	ug/l	98
79) 2-Chlorotoluene	13.129	91	3888	0.909	ug/l	98
80) 1,3,5-Trimethylbenzene	13.170	105	3984	0.830	ug/l	97
82) 4-Chlorotoluene	13.223	91	4068	0.925	ug/l	100
83) tert-Butylbenzene	13.435	119	3963	0.965	ug/l	92
84) 1,2,4-Trimethylbenzene	13.482	105	3881	0.801	ug/l	97
85) sec-Butylbenzene	13.617	105	4035	0.753	ug/l	99
86) p-Isopropyltoluene	13.723	119	3477	0.767	ug/l	93
87) 1,3-Dichlorobenzene	13.735	146	2812	0.984	ug/l	92
88) 1,4-Dichlorobenzene	13.811	146	3403m	1.133	ug/l	
89) n-Butylbenzene	14.053	91	3124	0.846	ug/l	93
90) Hexachloroethane	14.335	117	1276	1.220	ug/l	76
91) 1,2-Dichlorobenzene	14.100	146	3337	1.174	ug/l	96
92) 1,2-Dibromo-3-Chloropr...	14.723	75	319	0.831	ug/l #	20
93) 1,2,4-Trichlorobenzene	15.388	180	1497	1.048	ug/l	94
94) Hexachlorobutadiene	15.500	225	965	1.164	ug/l	80
95) Naphthalene	15.641	128	4162	1.006	ug/l #	81
96) 1,2,3-Trichlorobenzene	15.829	180	1329	0.980	ug/l #	86

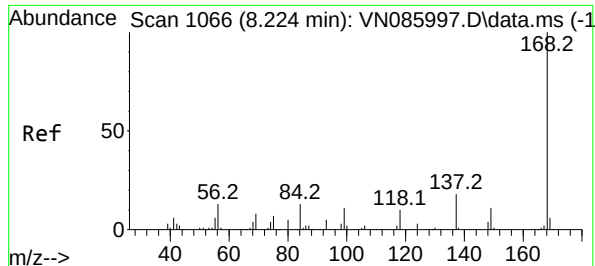
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

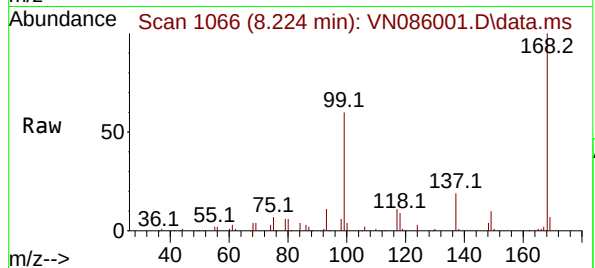
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN086001.D
Acq: 18 Mar 2025 14:09

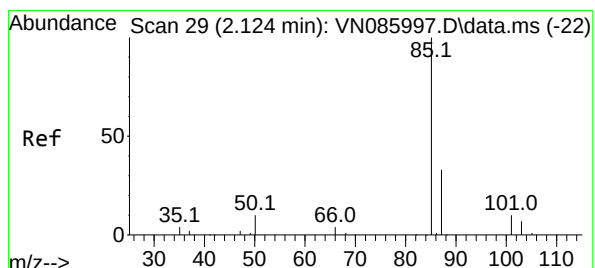
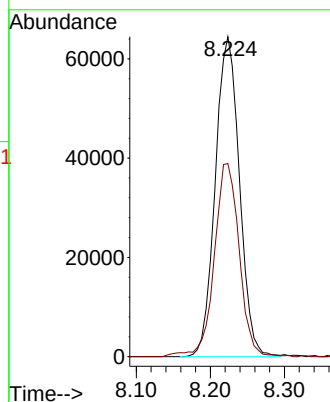
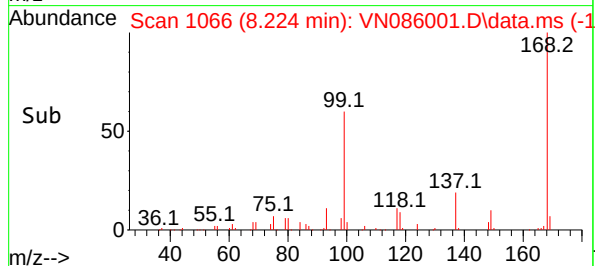
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001



Tgt Ion:168 Resp: 14585
Ion Ratio Lower Upper
168 100
99 60.0 49.4 74.2

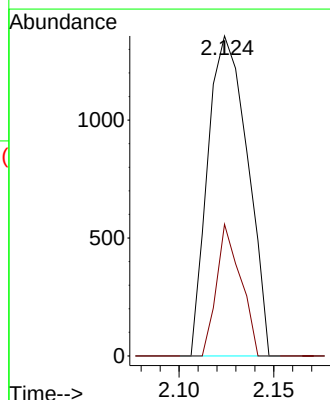
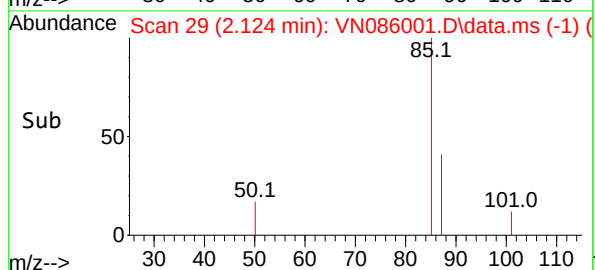
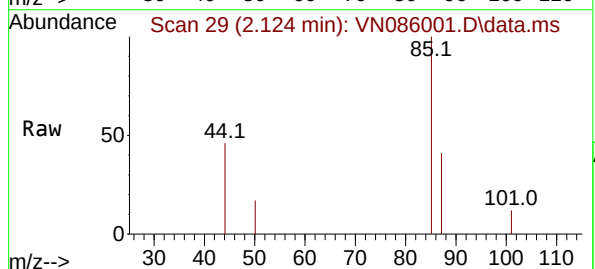
Manual Integrations
APPROVED

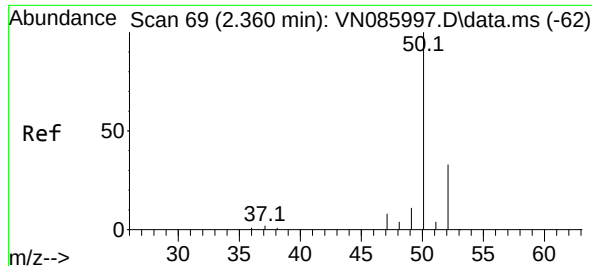
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#2
Dichlorodifluoromethane
Concen: 1.024 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN086001.D
Acq: 18 Mar 2025 14:09

Tgt Ion: 85 Resp: 1979
Ion Ratio Lower Upper
85 100
87 41.1 16.5 49.5





#3

Chloromethane

Concen: 1.176 ug/l

RT: 2.359 min Scan# 69

Delta R.T. -0.000 min

Lab File: VN086001.D

Acq: 18 Mar 2025 14:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

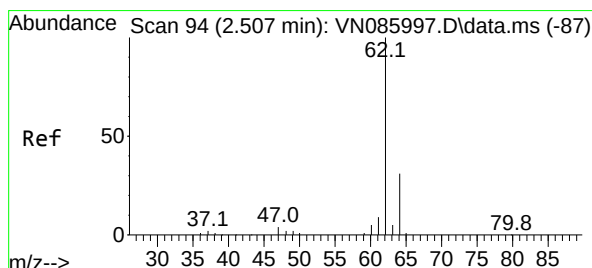
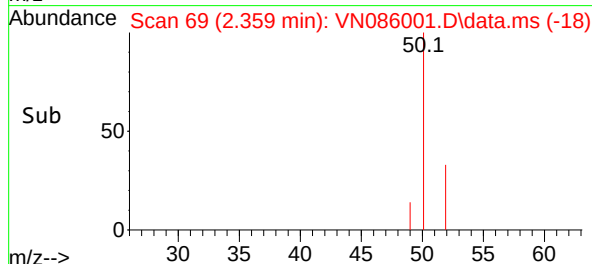
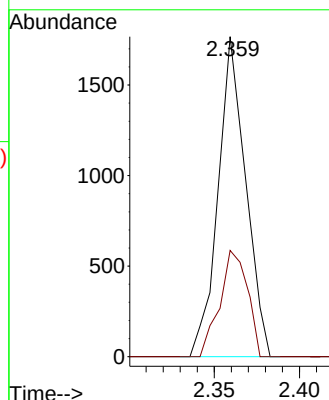
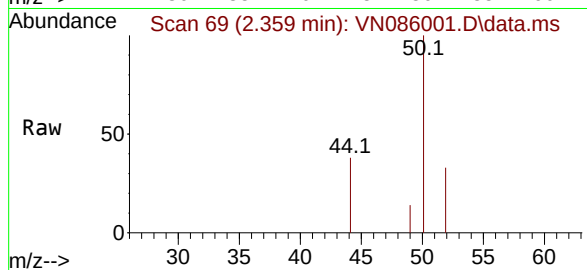
Tgt Ion	Ratio	Lower	Upper
50	100		
52	33.2	26.0	39.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#4

Vinyl Chloride

Concen: 0.996 ug/l

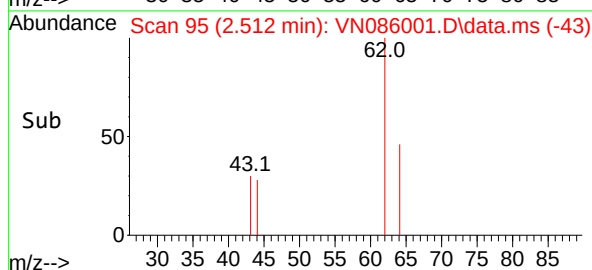
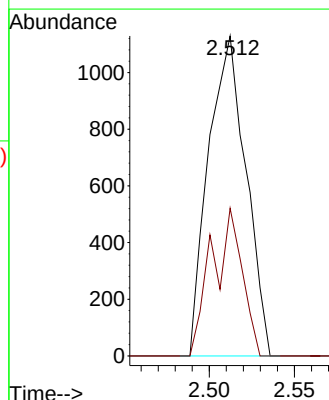
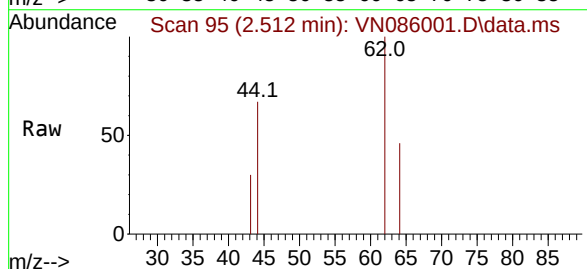
RT: 2.512 min Scan# 95

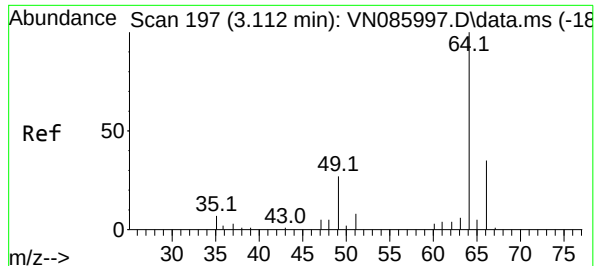
Delta R.T. 0.006 min

Lab File: VN086001.D

Acq: 18 Mar 2025 14:09

Tgt Ion	Ratio	Lower	Upper
62	100		
64	46.1	25.2	37.8#





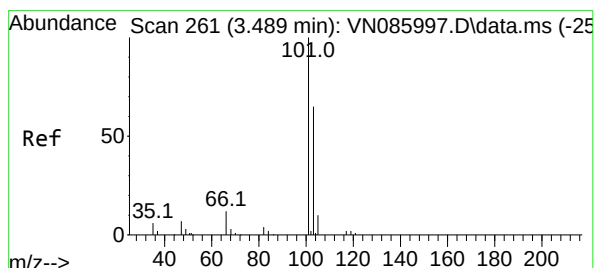
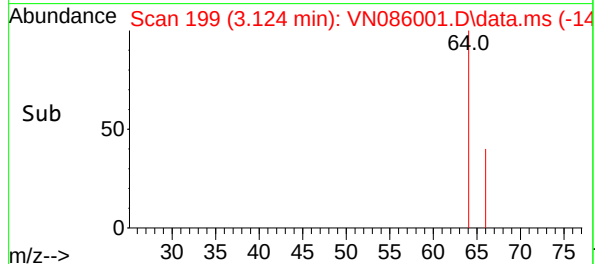
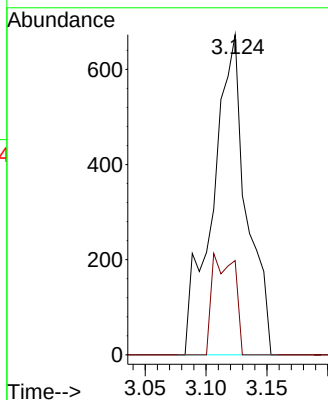
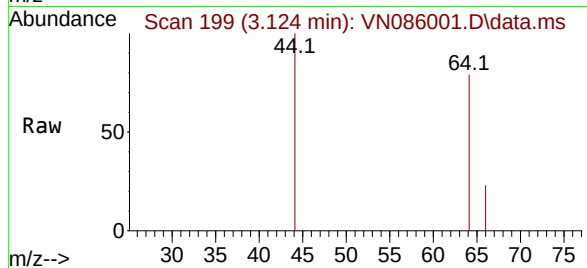
#6
Chloroethane
Concen: 1.192 ug/l
RT: 3.124 min Scan# 197
Delta R.T. 0.011 min
Lab File: VN086001.D
Acq: 18 Mar 2025 14:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 64 Resp: 1302
Ion Ratio Lower Upper
64 100
66 29.4 28.3 42.5

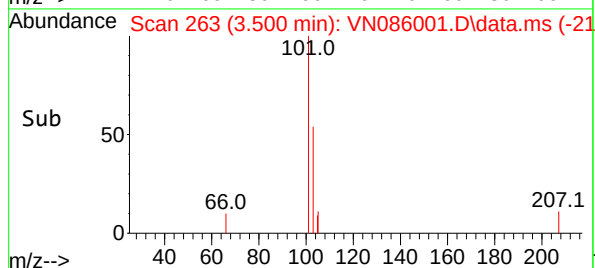
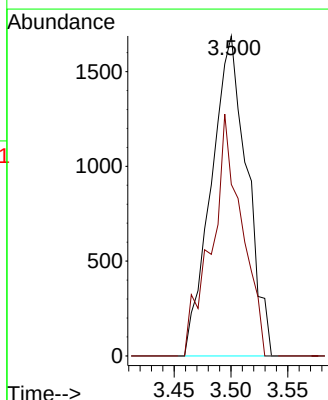
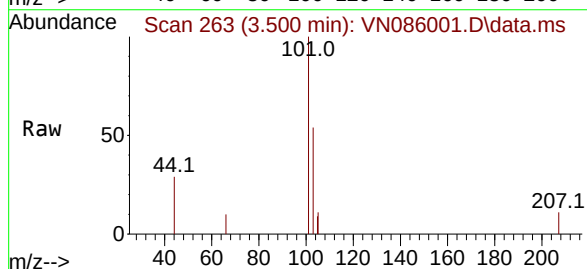
Manual Integrations
APPROVED

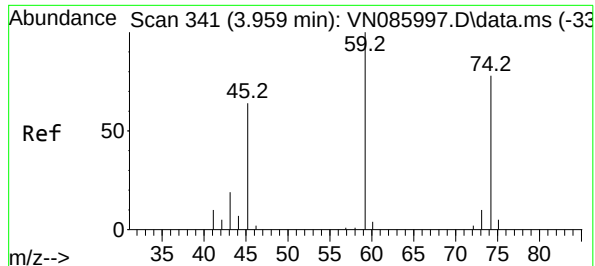
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#7
Trichlorofluoromethane
Concen: 1.187 ug/l
RT: 3.500 min Scan# 263
Delta R.T. 0.011 min
Lab File: VN086001.D
Acq: 18 Mar 2025 14:09

Tgt Ion:101 Resp: 3696
Ion Ratio Lower Upper
101 100
103 53.6 51.7 77.5



#8
Diethyl Ether

Concen: 1.028 ug/l

RT: 3.959 min Scan# 341

Delta R.T. -0.000 min

Lab File: VN086001.D

Acq: 18 Mar 2025 14:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion: 74 Resp: 980

Ion Ratio Lower Upper

74 100

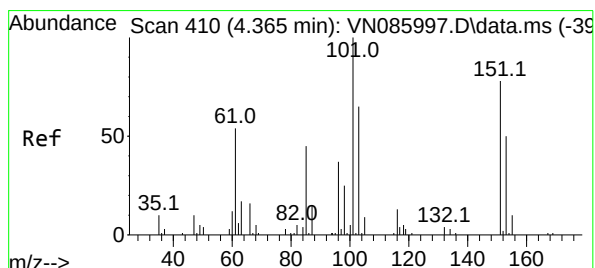
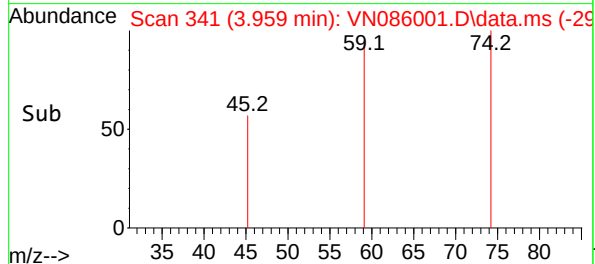
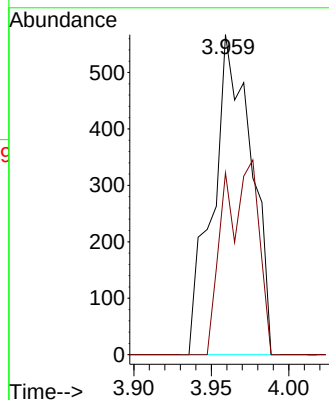
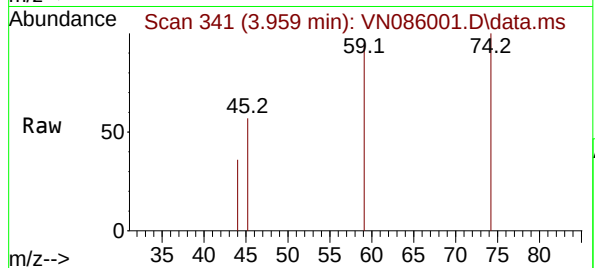
45 54.1 38.0 113.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#9

1,1,2-Trichlorotrifluoroethane

Concen: 1.162 ug/l m

RT: 4.365 min Scan# 410

Delta R.T. -0.000 min

Lab File: VN086001.D

Acq: 18 Mar 2025 14:09

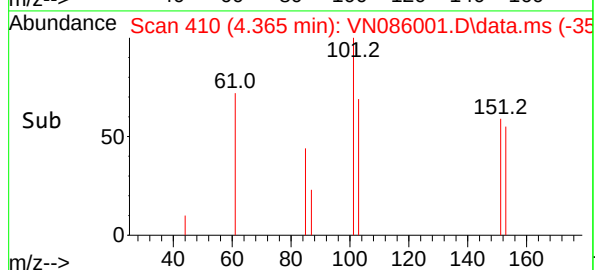
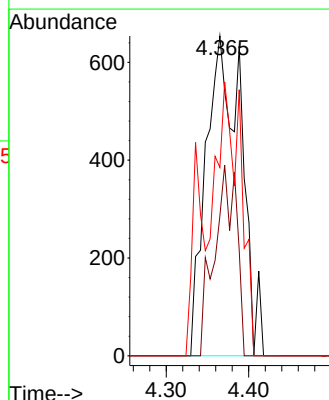
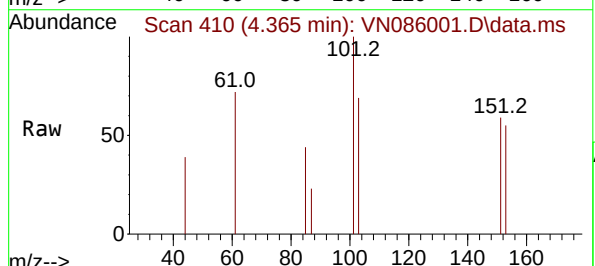
Tgt Ion:101 Resp: 1923

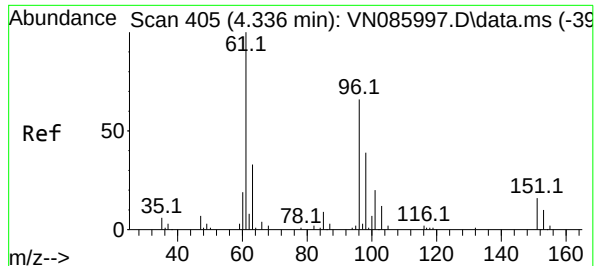
Ion Ratio Lower Upper

101 100

85 38.1 36.5 54.7

151 62.4 63.4 95.0#





#12

1,1-Dichloroethene

Concen: 0.810 ug/l

RT: 4.347 min Scan# 405

Delta R.T. 0.011 min

Lab File: VN086001.D

Acq: 18 Mar 2025 14:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Tgt Ion: 96 Resp: 1210

Ion Ratio Lower Upper

96 100

61 105.8 120.5 180.7

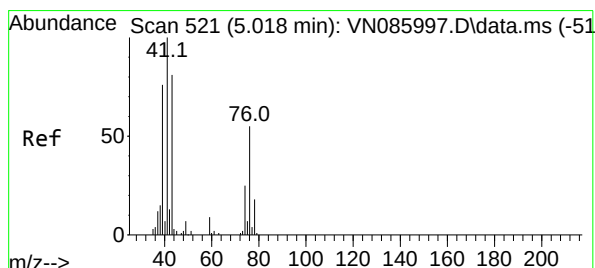
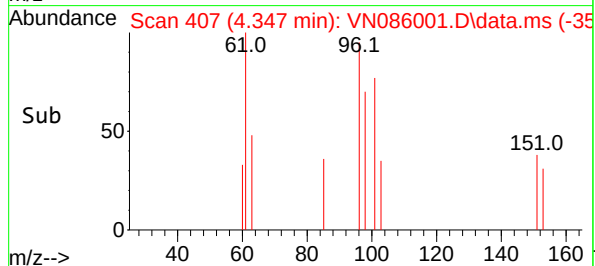
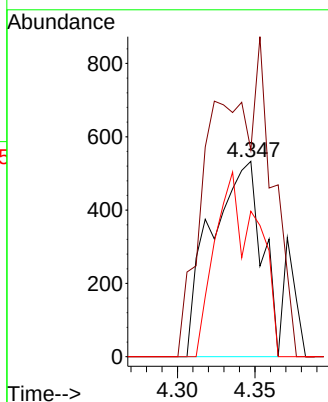
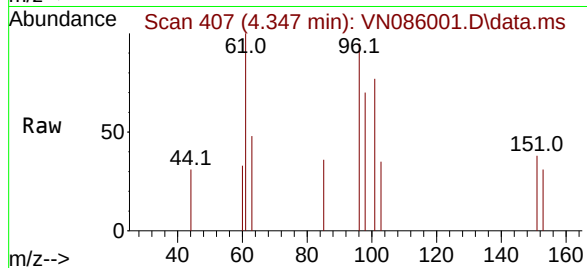
98 74.5 47.4 71.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#14

Allyl chloride

Concen: 1.039 ug/l

RT: 5.024 min Scan# 522

Delta R.T. 0.006 min

Lab File: VN086001.D

Acq: 18 Mar 2025 14:09

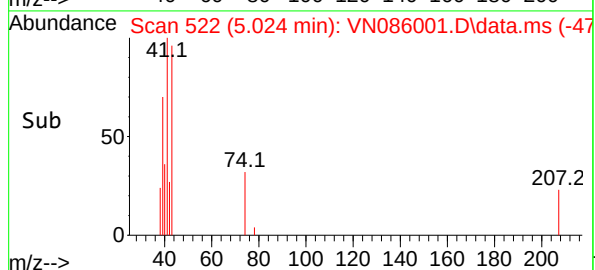
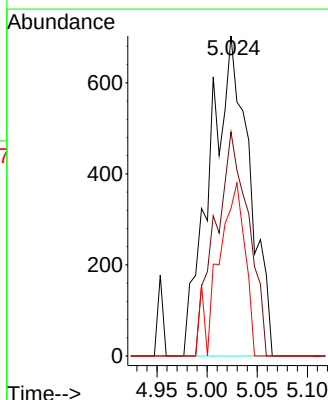
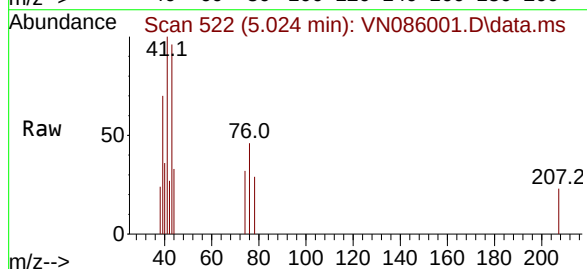
Tgt Ion: 41 Resp: 1936

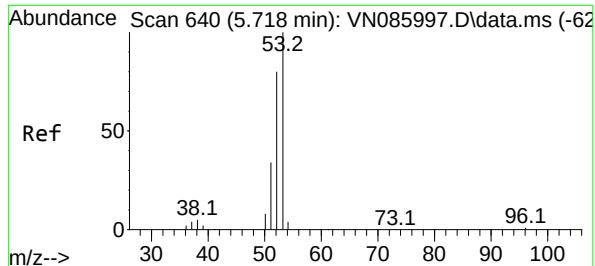
Ion Ratio Lower Upper

41 100

39 58.7 55.5 83.3

76 36.5 39.1 58.7





#15

Acrylonitrile

Concen: 4.930 ug/l

RT: 5.724 min Scan# 641

Delta R.T. 0.006 min

Lab File: VN086001.D

Acq: 18 Mar 2025 14:09

Instrument :

MSVOA_N

ClientSampleId :

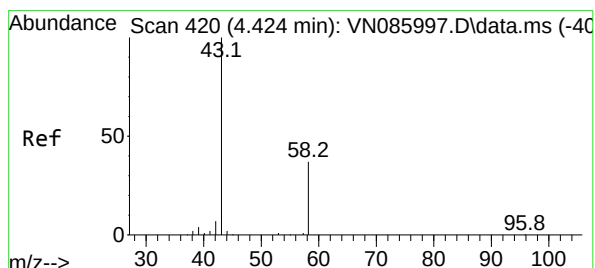
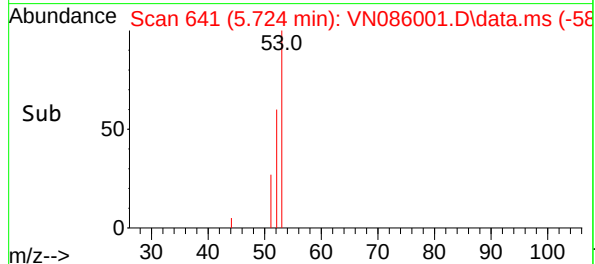
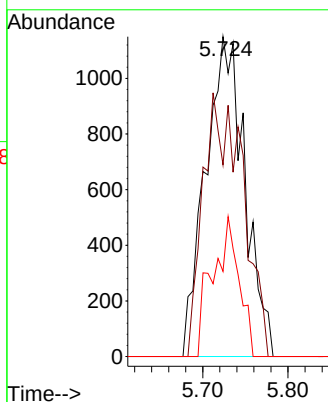
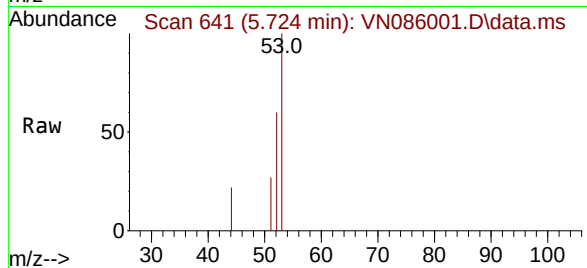
VSTDIC001

Tgt Ion:	53	Resp:	368
Ion	Ratio	Lower	Upper
53	100		
52	42.2	63.9	95.9
51	29.5	27.1	40.7

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#16

Acetone

Concen: 5.336 ug/l

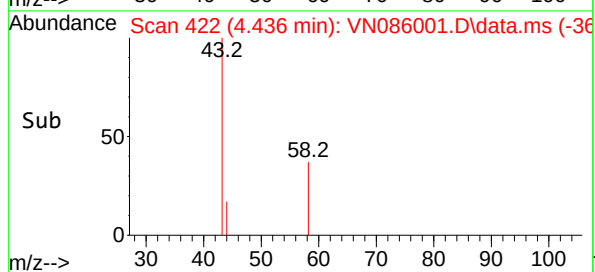
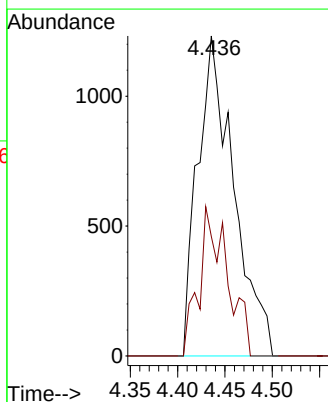
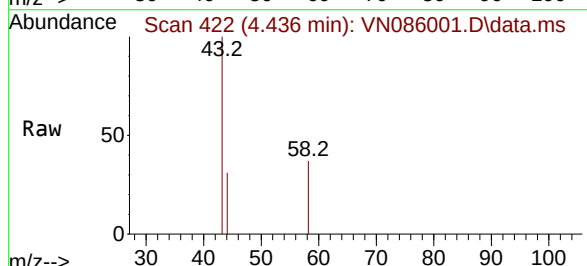
RT: 4.436 min Scan# 422

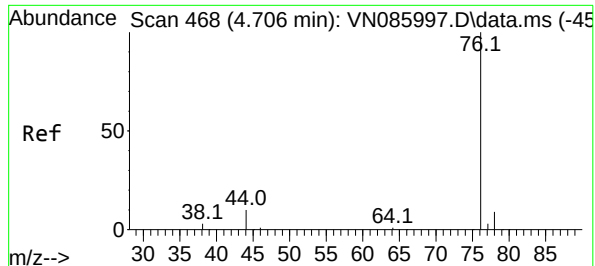
Delta R.T. 0.011 min

Lab File: VN086001.D

Acq: 18 Mar 2025 14:09

Tgt Ion:	43	Resp:	3256
Ion	Ratio	Lower	Upper
43	100		
58	37.3	29.4	44.2





#17

Carbon Disulfide

Concen: 1.251 ug/l

RT: 4.706 min Scan# 468

Delta R.T. -0.000 min

Lab File: VN086001.D

Acq: 18 Mar 2025 14:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Tgt Ion: 76 Resp: 6140

Ion Ratio Lower Upper

76 100

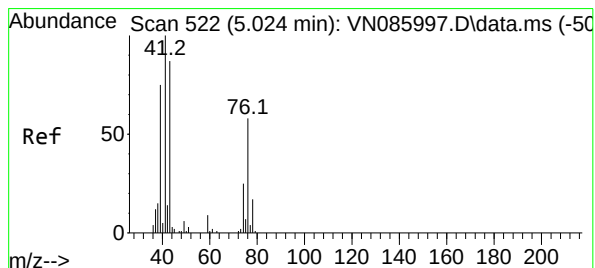
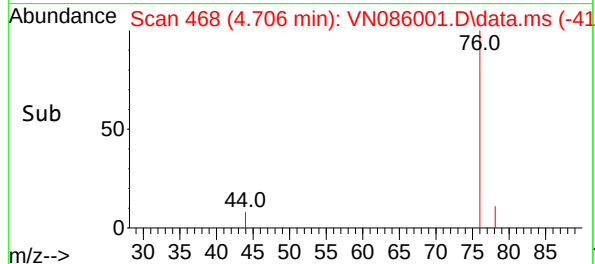
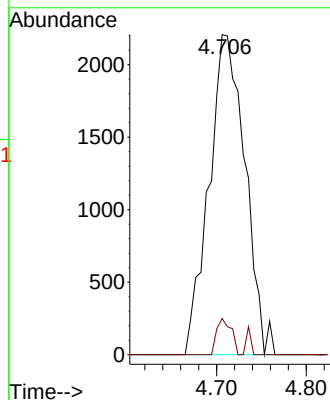
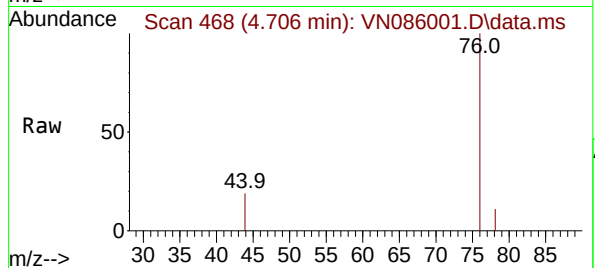
78 11.3 7.4 11.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#18

Methyl Acetate

Concen: 1.290 ug/l

RT: 5.024 min Scan# 522

Delta R.T. -0.000 min

Lab File: VN086001.D

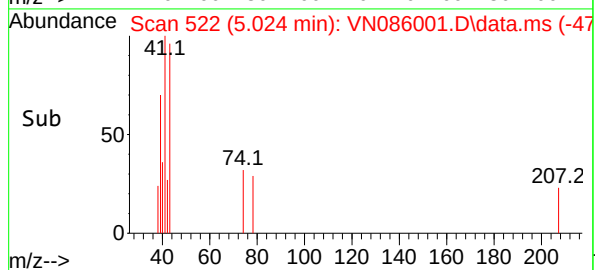
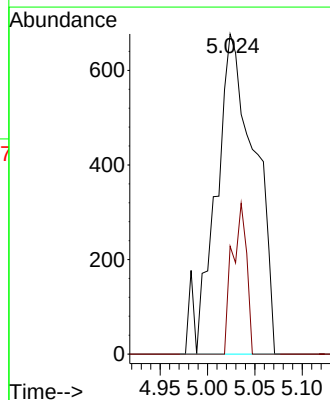
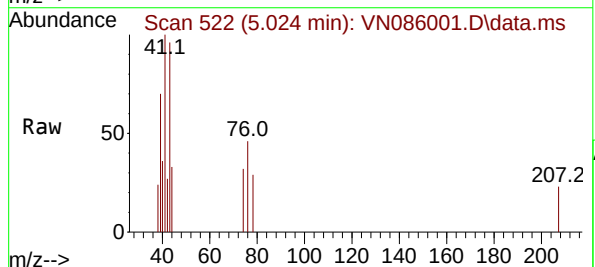
Acq: 18 Mar 2025 14:09

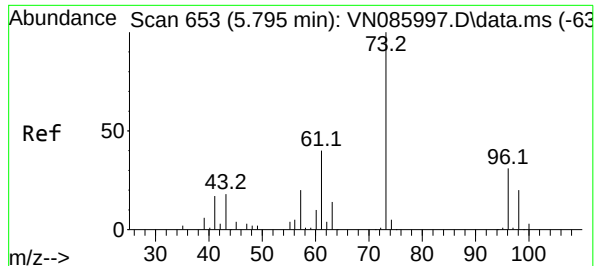
Tgt Ion: 43 Resp: 1947

Ion Ratio Lower Upper

43 100

74 17.3 23.9 35.9





#19

Methyl tert-butyl Ether

Concen: 0.997 ug/l

RT: 5.794 min Scan# 653

Delta R.T. -0.000 min

Lab File: VN086001.D

Acq: 18 Mar 2025 14:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion: 73 Resp: 4880

Ion Ratio Lower Upper

73 100

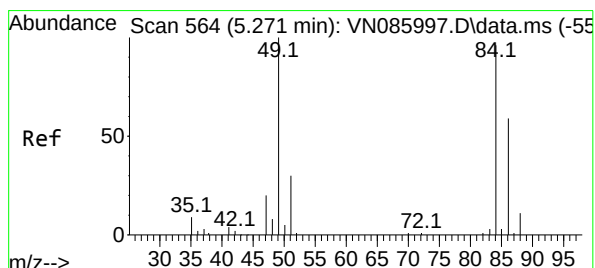
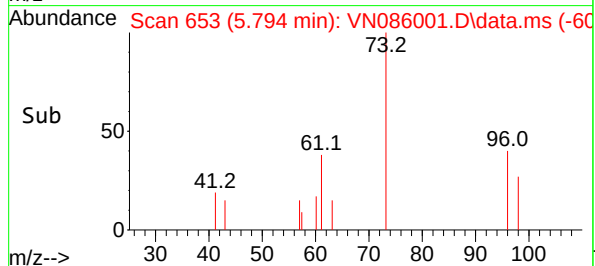
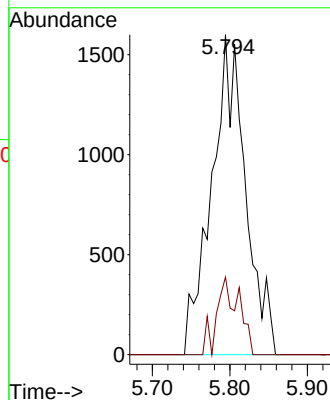
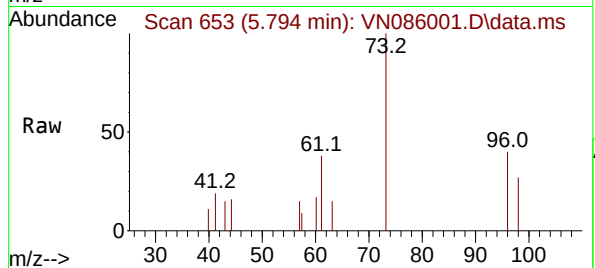
57 24.2 16.1 24.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#20

Methylene Chloride

Concen: 1.194 ug/l

RT: 5.271 min Scan# 564

Delta R.T. -0.000 min

Lab File: VN086001.D

Acq: 18 Mar 2025 14:09

Tgt Ion: 84 Resp: 2132

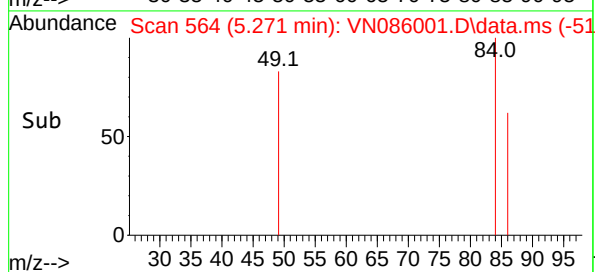
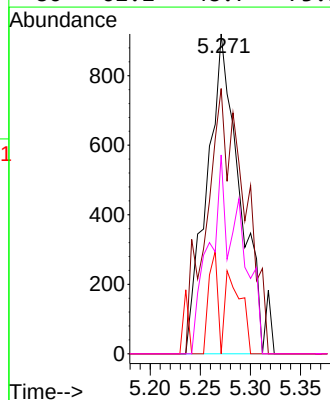
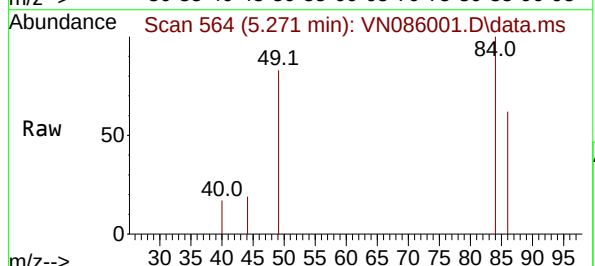
Ion Ratio Lower Upper

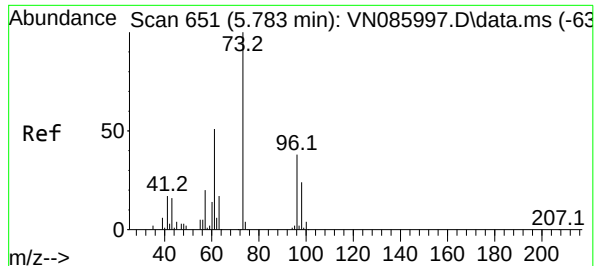
84 100

49 82.9 83.3 124.9#

51 0.0 24.8 37.2#

86 62.2 48.7 73.1





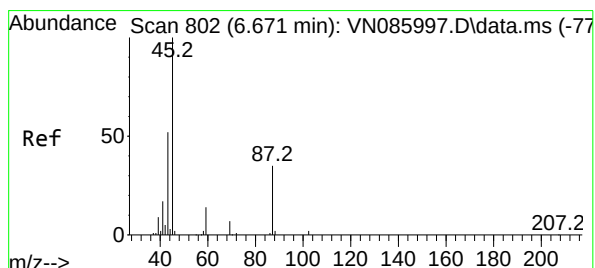
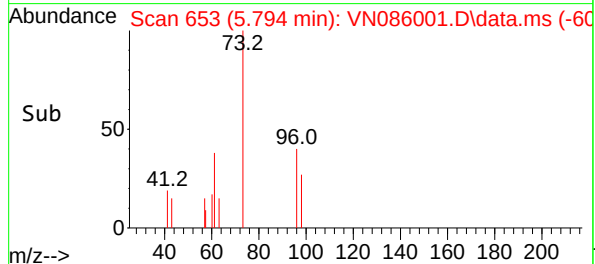
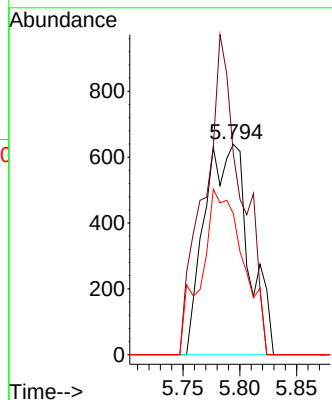
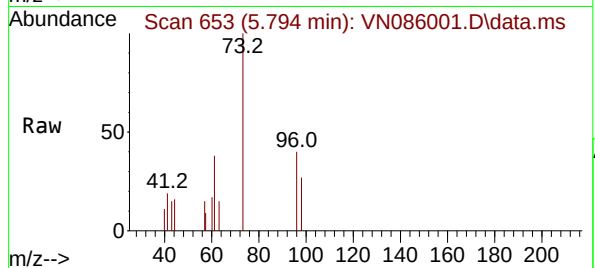
#21
trans-1,2-Dichloroethene
Concen: 1.056 ug/l
RT: 5.794 min Scan# 61
Delta R.T. 0.011 min
Lab File: VN086001.D
Acq: 18 Mar 2025 14:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 96 Resp: 1725
Ion Ratio Lower Upper
96 100
61 95.5 106.6 160.0#
98 67.1 50.0 75.0

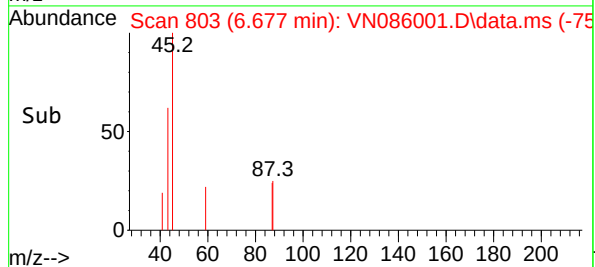
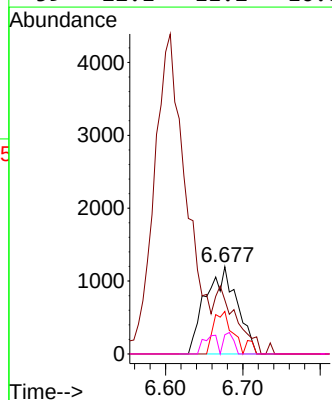
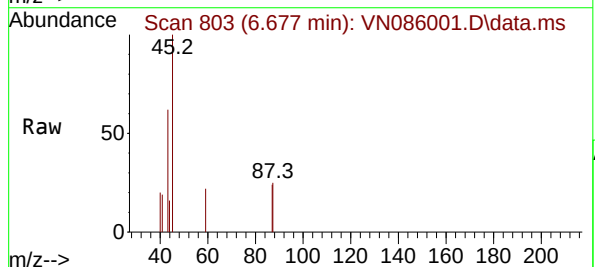
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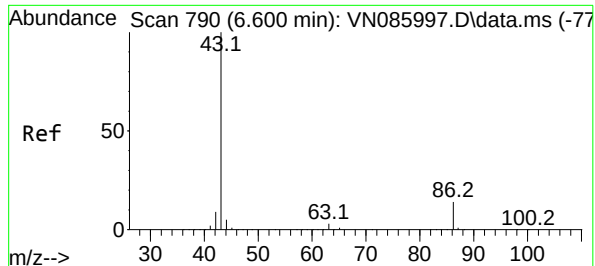
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#22
Diisopropyl ether
Concen: 0.856 ug/l m
RT: 6.677 min Scan# 803
Delta R.T. 0.006 min
Lab File: VN086001.D
Acq: 18 Mar 2025 14:09

Tgt Ion: 45 Resp: 3402
Ion Ratio Lower Upper
45 100
43 61.9 41.2 61.8#
87 24.8 28.5 42.7#
59 22.1 11.2 16.8#





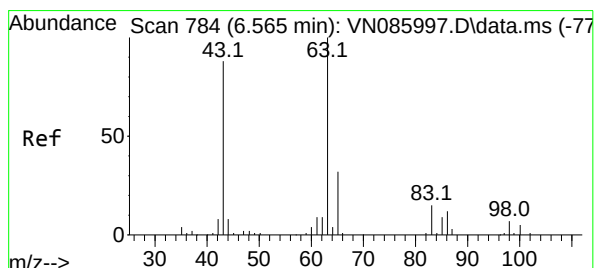
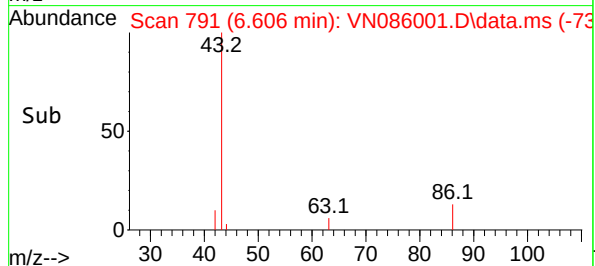
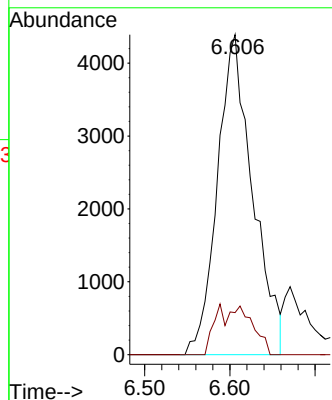
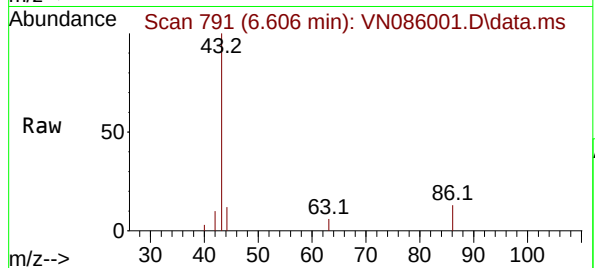
#23
Vinyl Acetate
Concen: 4.195 ug/l
RT: 6.606 min Scan# 791
Delta R.T. 0.006 min
Lab File: VN086001.D
Acq: 18 Mar 2025 14:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 12634
Ion Ratio Lower Upper
43 100
86 13.1 11.2 16.8

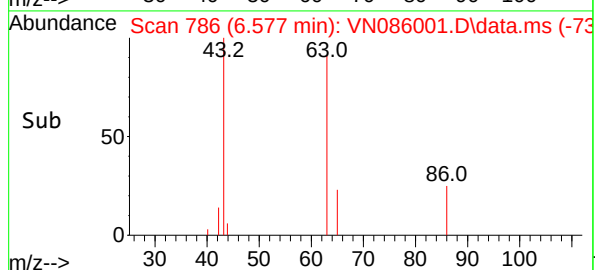
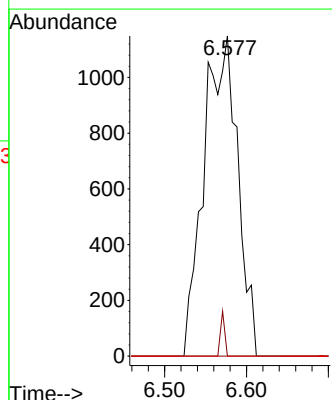
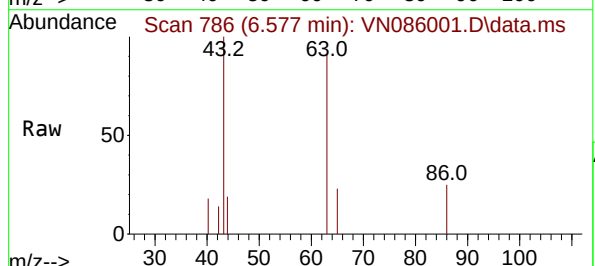
Manual Integrations
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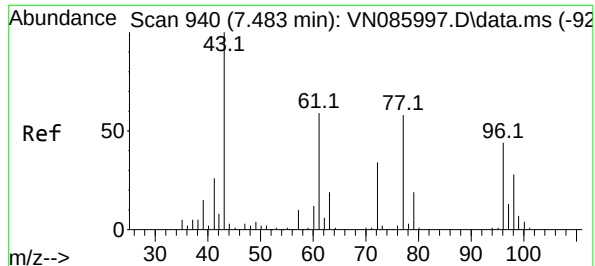
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#24
1,1-Dichloroethane
Concen: 1.128 ug/l m
RT: 6.577 min Scan# 786
Delta R.T. 0.011 min
Lab File: VN086001.D
Acq: 18 Mar 2025 14:09

Tgt Ion: 63 Resp: 3295
Ion Ratio Lower Upper
63 100
98 0.0 3.6 10.9#
100 0.0 2.5 7.5#





#25

2-Butanone

Concen: 4.895 ug/l

RT: 7.482 min Scan# 940

Delta R.T. -0.000 min

Lab File: VN086001.D

Acq: 18 Mar 2025 14:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion: 43 Resp: 4310

Ion Ratio Lower Upper

43 100

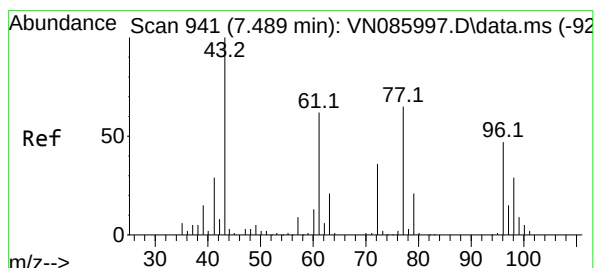
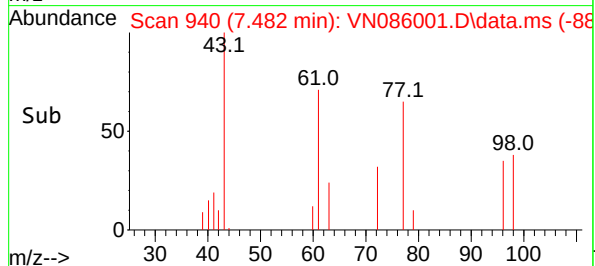
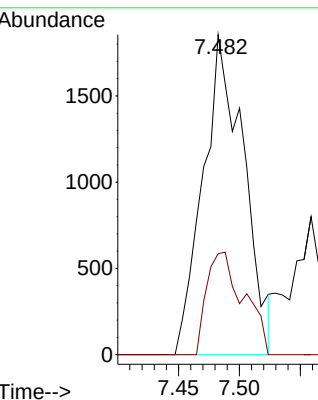
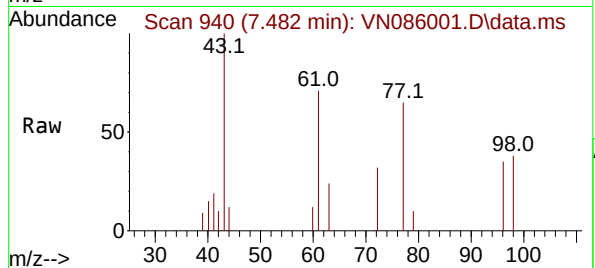
72 31.5 27.4 41.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#26

2,2-Dichloropropane

Concen: 1.042 ug/l

RT: 7.482 min Scan# 940

Delta R.T. -0.006 min

Lab File: VN086001.D

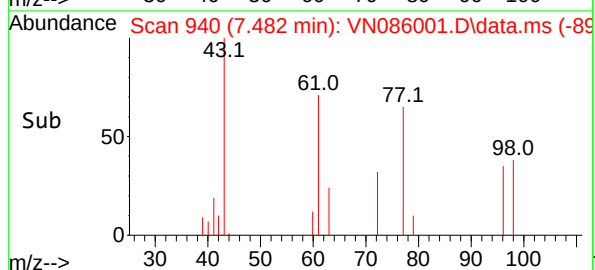
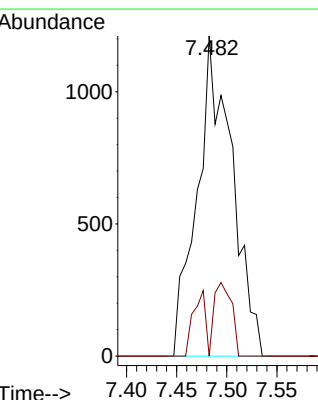
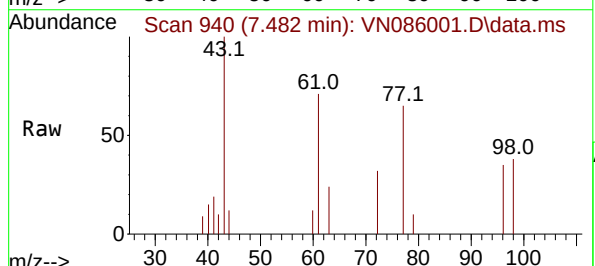
Acq: 18 Mar 2025 14:09

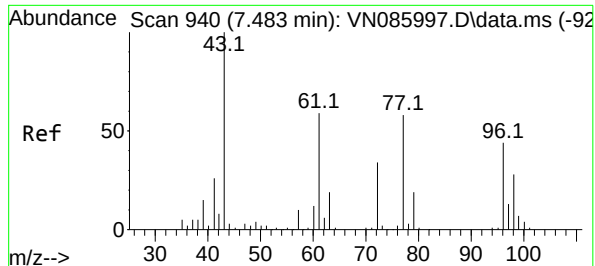
Tgt Ion: 77 Resp: 2930

Ion Ratio Lower Upper

77 100

97 7.2 11.2 33.5#





#27

cis-1,2-Dichloroethene

Concen: 0.994 ug/l

RT: 7.488 min Scan# 941

Delta R.T. 0.006 min

Lab File: VN086001.D

Acq: 18 Mar 2025 14:09

Instrument :

MSVOA_N

ClientSampleId :

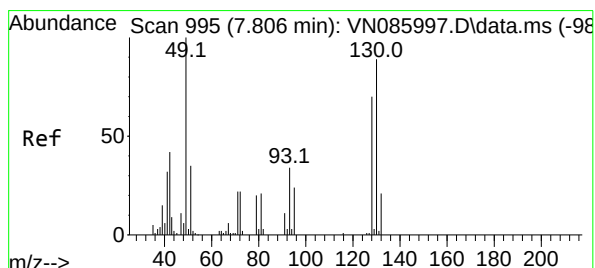
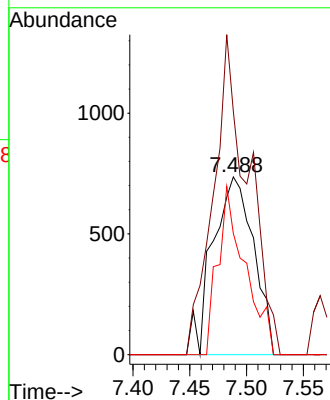
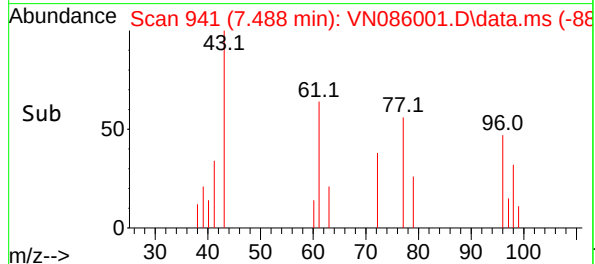
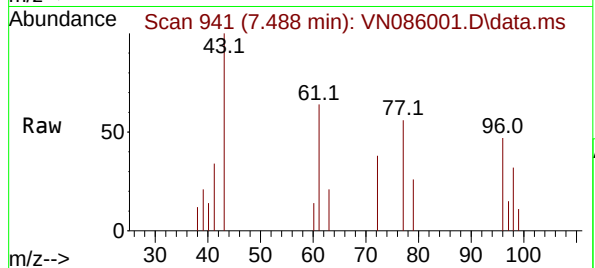
VSTDIC001

Tgt Ion: 96	Resp: 184
Ion Ratio	Lower Upper
96	100
61	153.2 0.0 272.8
98	62.9 0.0 124.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#28

Bromochloromethane

Concen: 1.228 ug/l

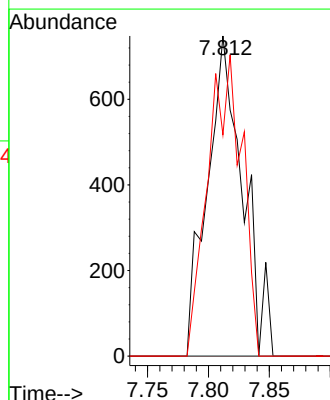
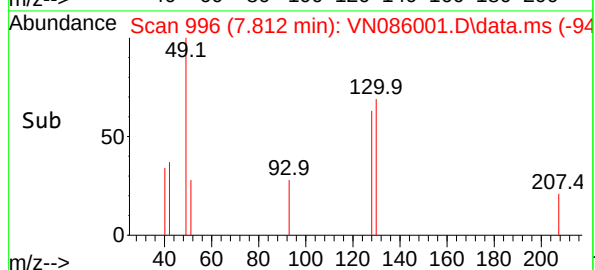
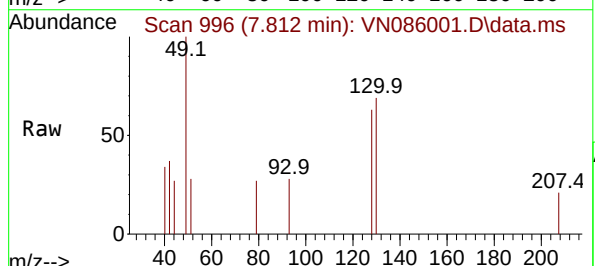
RT: 7.812 min Scan# 996

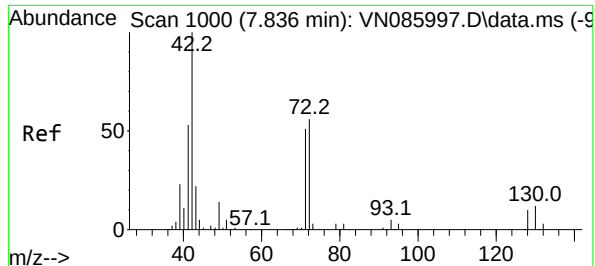
Delta R.T. 0.006 min

Lab File: VN086001.D

Acq: 18 Mar 2025 14:09

Tgt Ion: 49	Resp: 1520
Ion Ratio	Lower Upper
49	100
129	0.0 0.0 4.2
130	90.8 74.2 111.4





#29

Tetrahydrofuran

Concen: 4.082 ug/l

RT: 7.841 min Scan# 1000

Delta R.T. 0.006 min

Lab File: VN086001.D

Acq: 18 Mar 2025 14:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

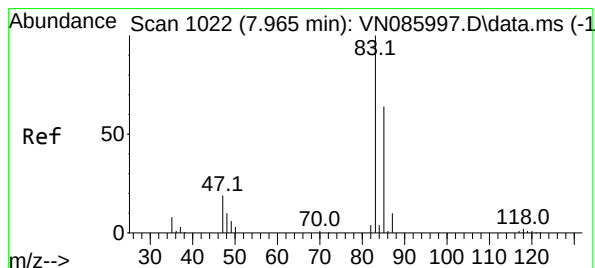
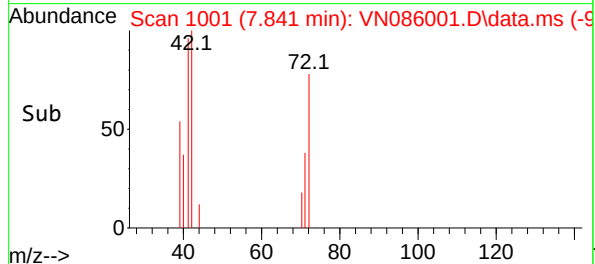
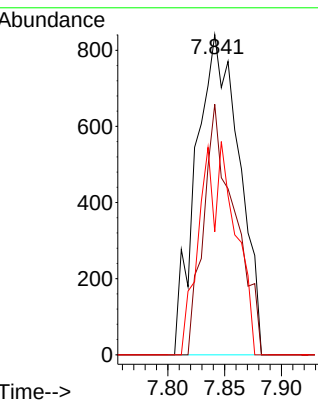
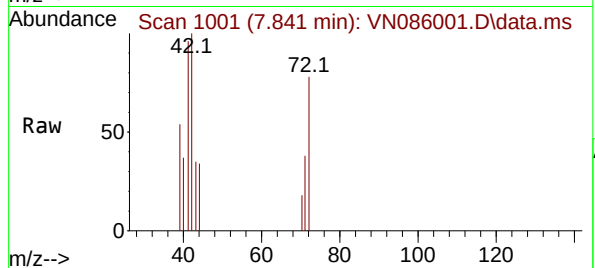
Tgt Ion:	42	Resp:	2219
Ion	Ratio	Lower	Upper
42	100		
72	56.8	45.0	67.4
71	25.9	41.9	62.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#30

Chloroform

Concen: 1.125 ug/l

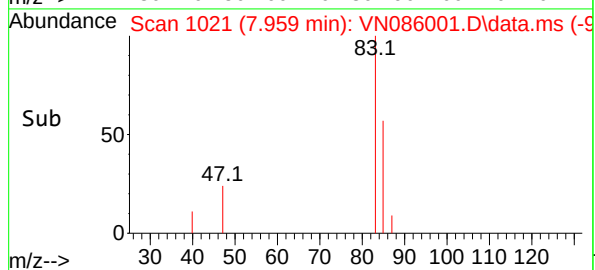
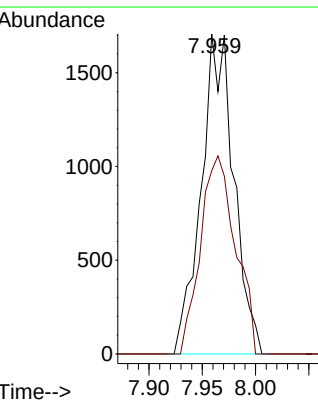
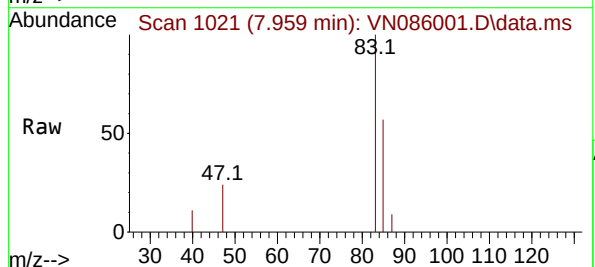
RT: 7.959 min Scan# 1021

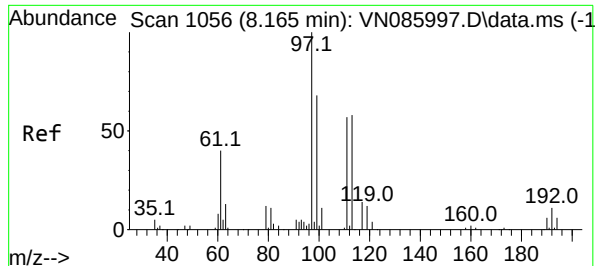
Delta R.T. -0.006 min

Lab File: VN086001.D

Acq: 18 Mar 2025 14:09

Tgt Ion:	83	Resp:	3631
Ion	Ratio	Lower	Upper
83	100		
85	57.2	51.5	77.3





#32

1,1,1-Trichloroethane

Concen: 1.072 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086001.D

Acq: 18 Mar 2025 14:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion: 97 Resp: 3278

Ion Ratio Lower Upper

97 100

99 0.0 52.8 79.2

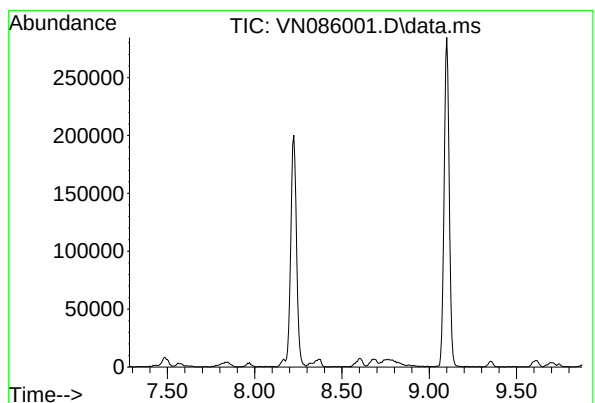
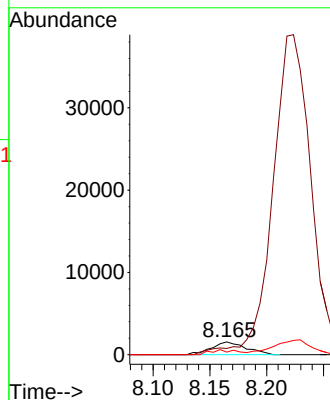
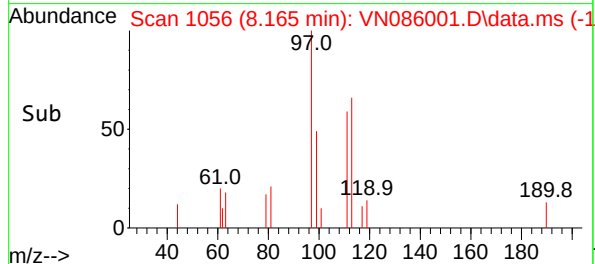
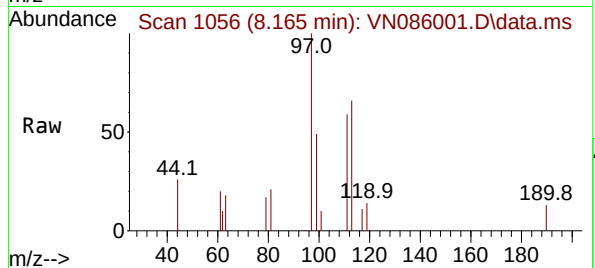
61 30.2 33.6 50.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#33

1,2-Dichloroethane-d4

Concen: 0.000 ug/l

Expected RT: 8.58 min

Lab File: VN086001.D

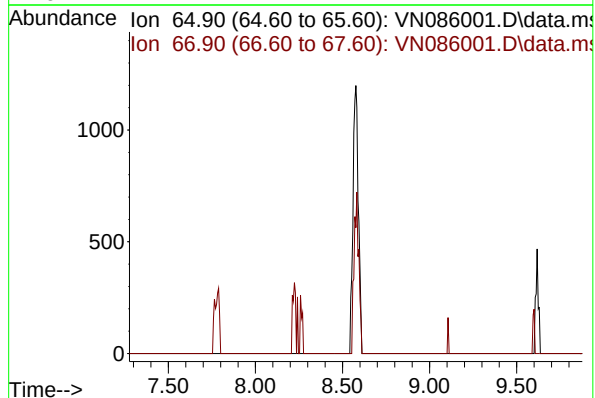
Acq: 18 Mar 2025 14:09

Tgt Ion: 65

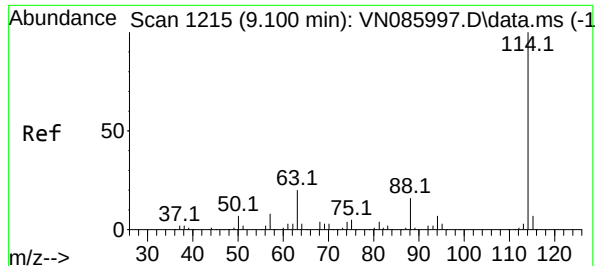
Sig Exp Ratio

65 100

67 51.1



Ion 66.90 (66.60 to 67.60): VN086001.D\data.ms



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN086001.D

Acq: 18 Mar 2025 14:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Tgt Ion:114 Resp: 24961

Ion Ratio Lower Upper

114 100

63 20.6 0.0 39.6

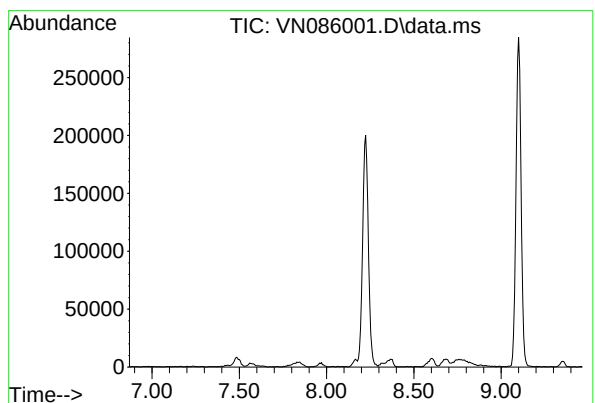
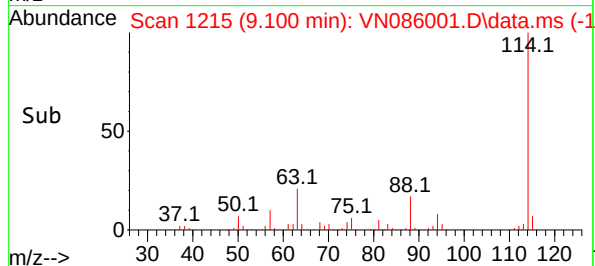
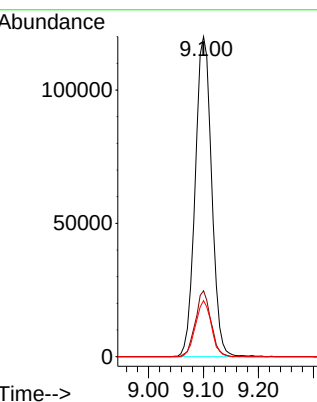
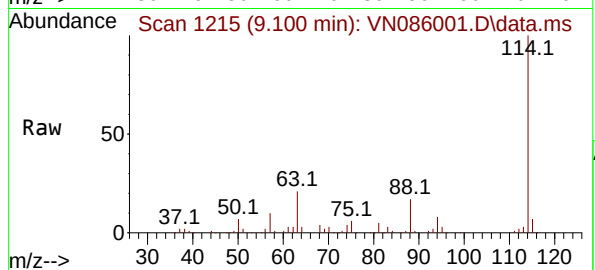
88 17.5 0.0 32.6

Manual Integrations

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Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#35

Dibromofluoromethane

Concen: 0.000 ug/l

Expected RT: 8.17 min

Lab File: VN086001.D

Acq: 18 Mar 2025 14:09

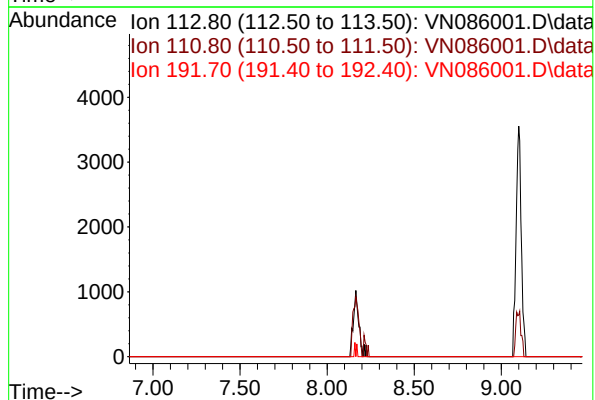
Tgt Ion: 113

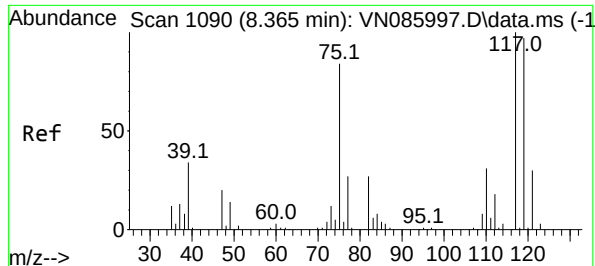
Sig Exp Ratio

113 100

111 102.3

192 19.9





#36

1,1-Dichloropropene

Concen: 0.994 ug/l

RT: 8.376 min Scan# 1090

Delta R.T. 0.011 min

Lab File: VN086001.D

Acq: 18 Mar 2025 14:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion: 75 Resp: 228

Ion Ratio Lower Upper

75 100

110 33.8 17.8 53.3

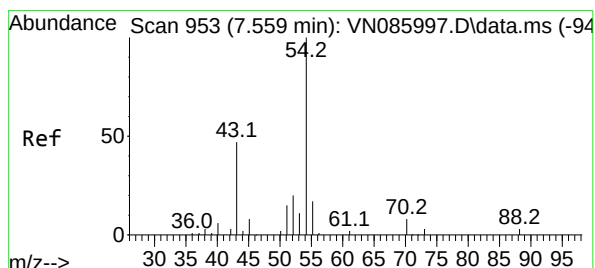
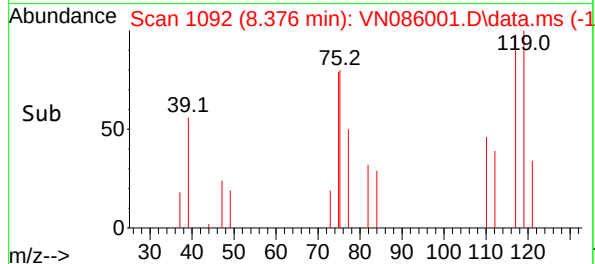
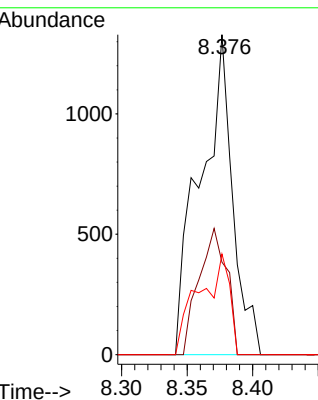
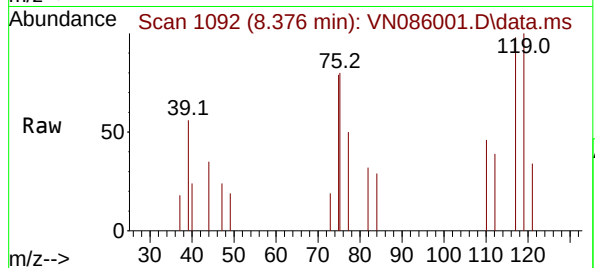
77 29.6 25.0 37.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#37

Ethyl Acetate

Concen: 1.002 ug/l m

RT: 7.559 min Scan# 953

Delta R.T. -0.000 min

Lab File: VN086001.D

Acq: 18 Mar 2025 14:09

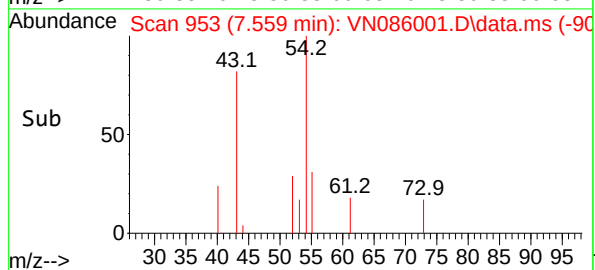
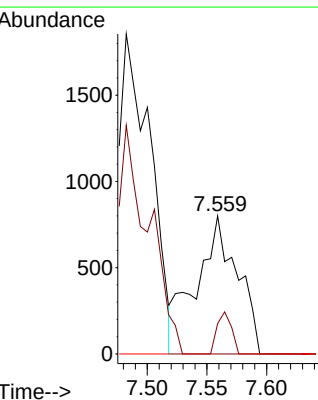
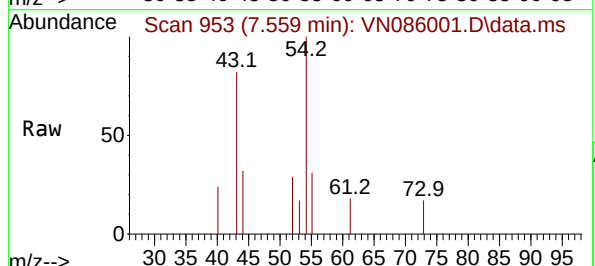
Tgt Ion: 43 Resp: 1939

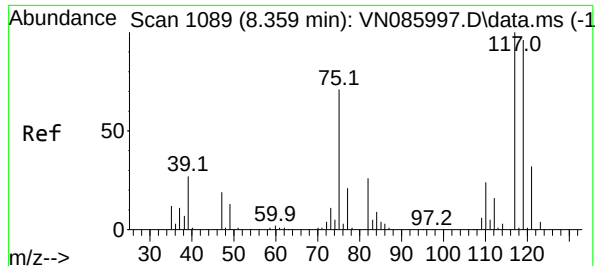
Ion Ratio Lower Upper

43 100

61 10.5 13.0 19.4#

70 0.0 11.0 16.6#





#38

Carbon Tetrachloride

Concen: 1.032 ug/l

RT: 8.365 min Scan# 1090

Delta R.T. 0.006 min

Lab File: VN086001.D

Acq: 18 Mar 2025 14:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

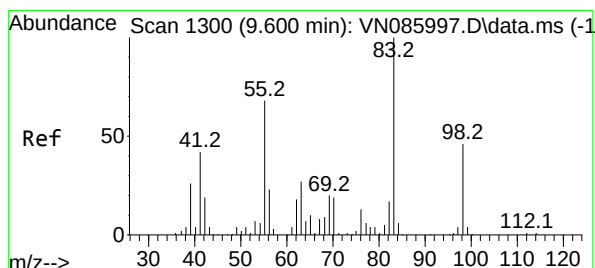
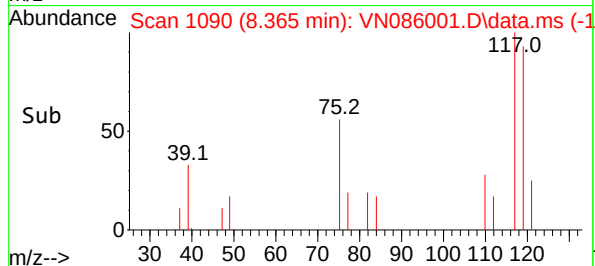
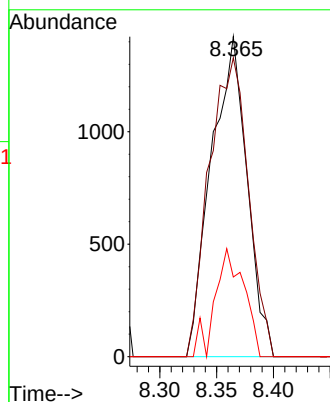
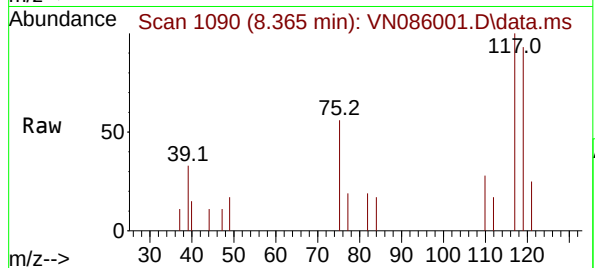
Tgt Ion:	117	Resp:	3114
Ion	Ratio	Lower	Upper
117	100		
119	93.4	77.0	115.4
121	24.9	25.6	38.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#39

Methylcyclohexane

Concen: 0.960 ug/l

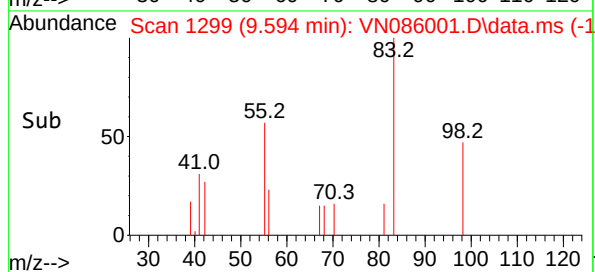
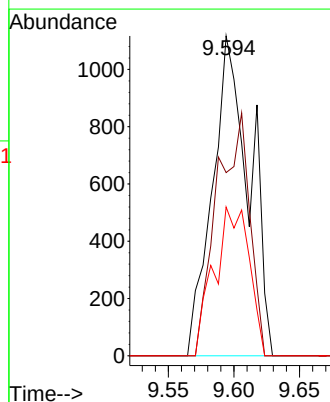
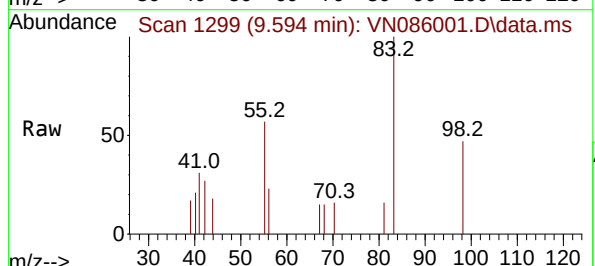
RT: 9.594 min Scan# 1299

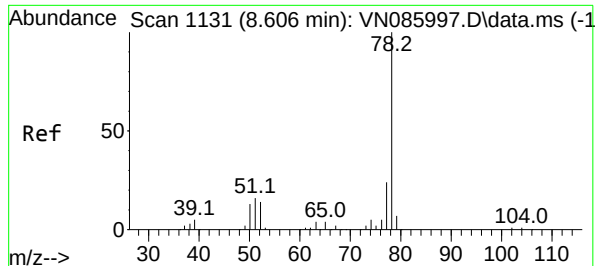
Delta R.T. -0.006 min

Lab File: VN086001.D

Acq: 18 Mar 2025 14:09

Tgt Ion:	83	Resp:	2186
Ion	Ratio	Lower	Upper
83	100		
55	57.3	54.2	81.2
98	46.6	37.1	55.7





#40

Benzene

Concen: 1.016 ug/l

RT: 8.606 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VN086001.D

Acq: 18 Mar 2025 14:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion: 78 Resp: 731

Ion Ratio Lower Upper

78 100

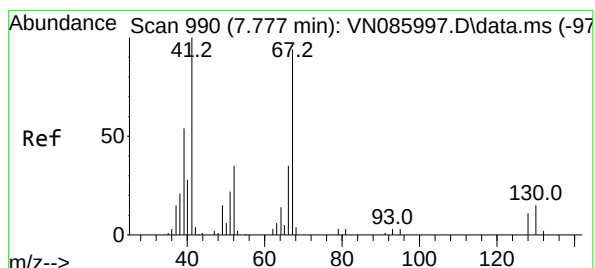
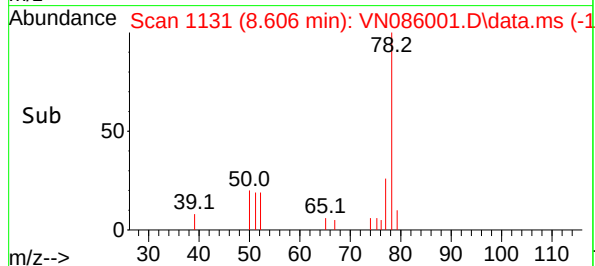
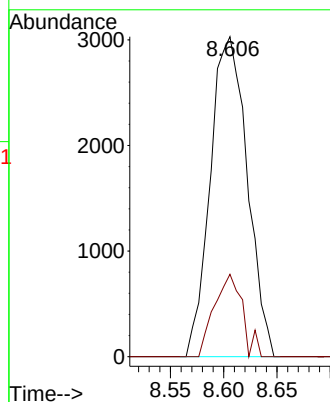
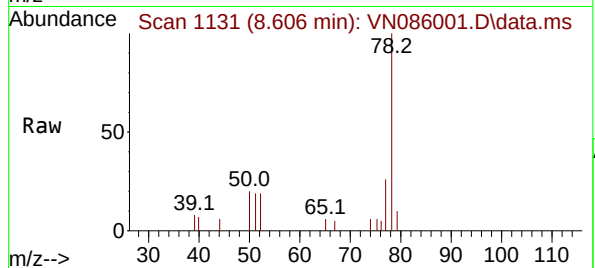
77 25.7 18.9 28.3

Manual Integrations

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Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#41

Methacrylonitrile

Concen: 0.711 ug/l

RT: 7.777 min Scan# 990

Delta R.T. -0.000 min

Lab File: VN086001.D

Acq: 18 Mar 2025 14:09

Tgt Ion: 41 Resp: 657

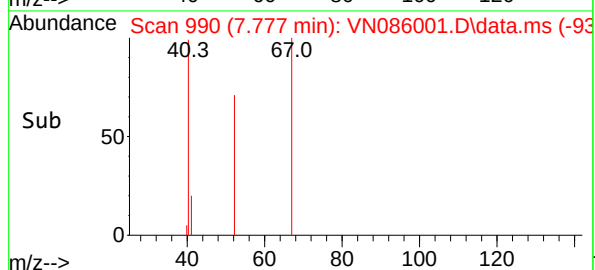
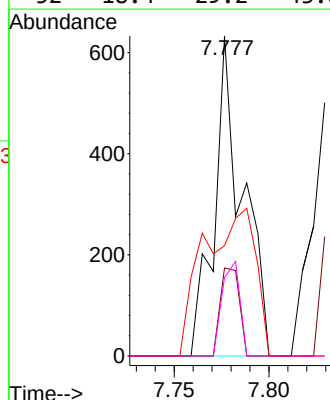
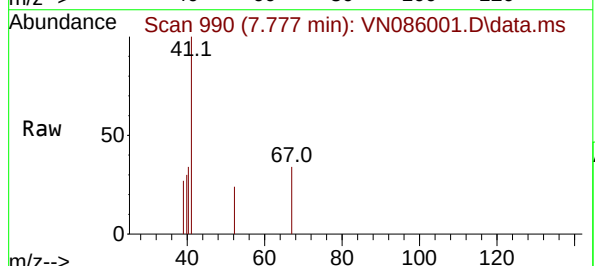
Ion Ratio Lower Upper

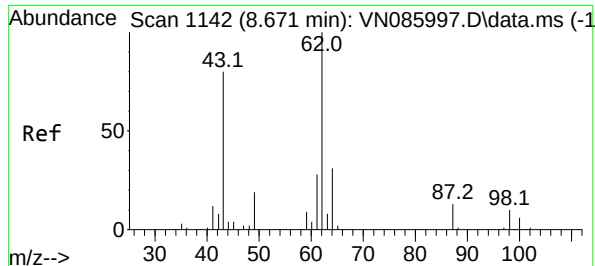
41 100

39 18.4 46.2 69.2#

67 84.0 75.9 113.9

52 18.4 29.2 43.8#





#42

1,2-Dichloroethane

Concen: 1.036 ug/l

RT: 8.671 min Scan# 1142

Delta R.T. -0.000 min

Lab File: VN086001.D

Acq: 18 Mar 2025 14:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion: 62 Resp: 260

Ion Ratio Lower Upper

62 100

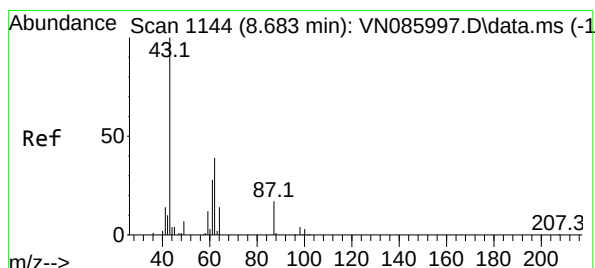
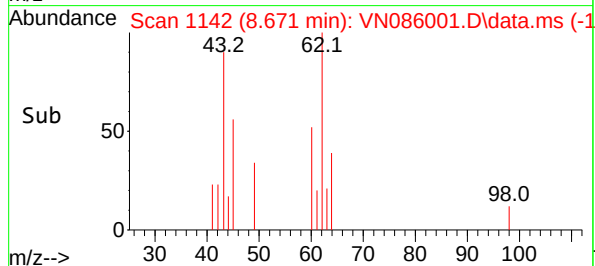
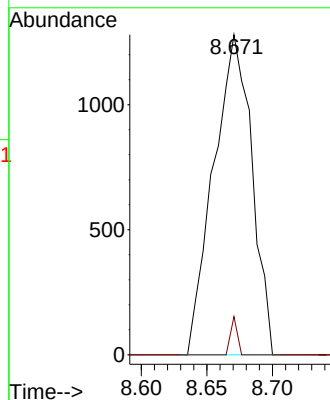
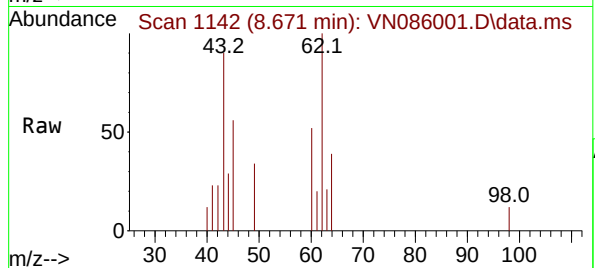
98 2.1 0.0 18.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#43

Isopropyl Acetate

Concen: 1.334 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.011 min

Lab File: VN086001.D

Acq: 18 Mar 2025 14:09

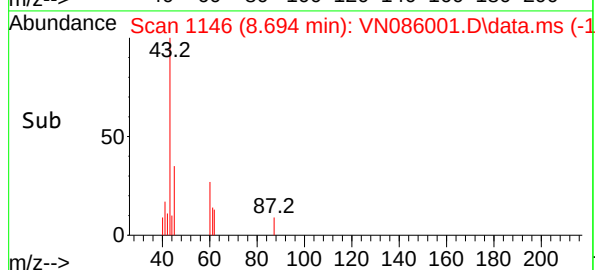
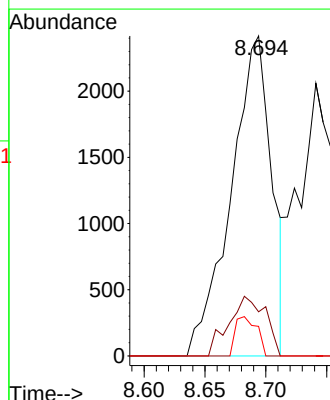
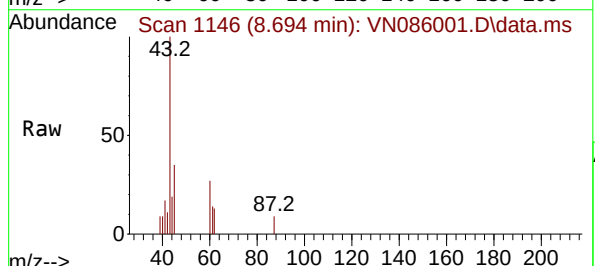
Tgt Ion: 43 Resp: 5607

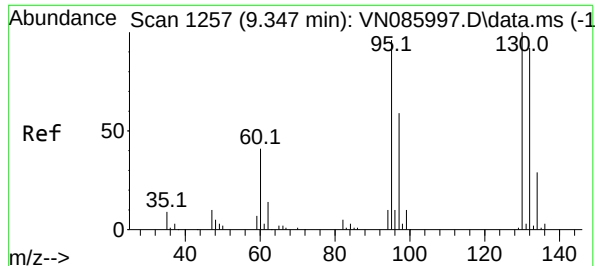
Ion Ratio Lower Upper

43 100

61 16.8 25.0 37.6#

87 6.5 13.0 19.4#





#44

Trichloroethene

Concen: 1.164 ug/l

RT: 9.347 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN086001.D

Acq: 18 Mar 2025 14:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion:130 Resp: 217

Ion Ratio Lower Upper

130 100

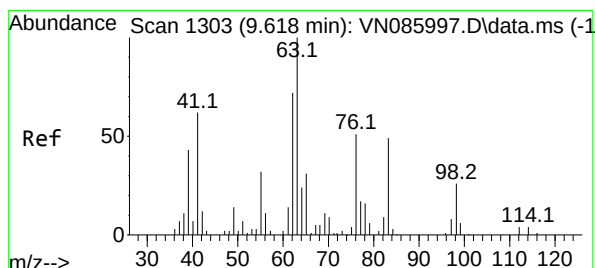
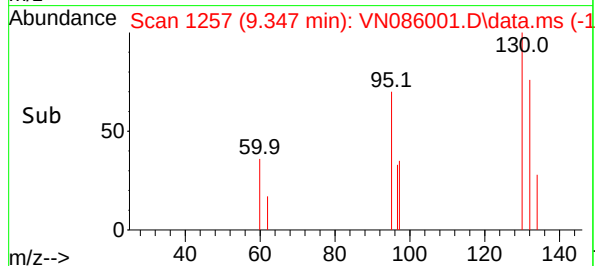
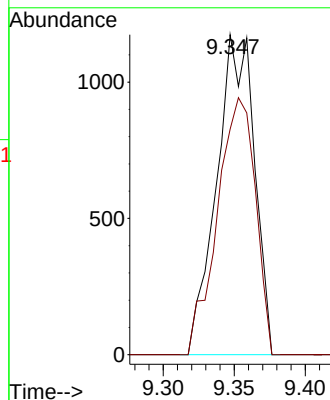
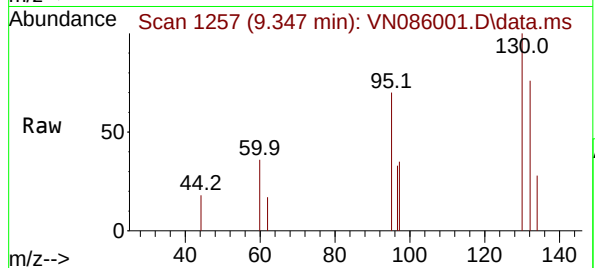
95 70.4 0.0 191.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#45

1,2-Dichloropropane

Concen: 0.941 ug/l

RT: 9.623 min Scan# 1304

Delta R.T. 0.006 min

Lab File: VN086001.D

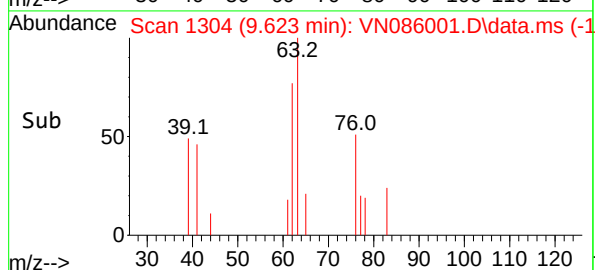
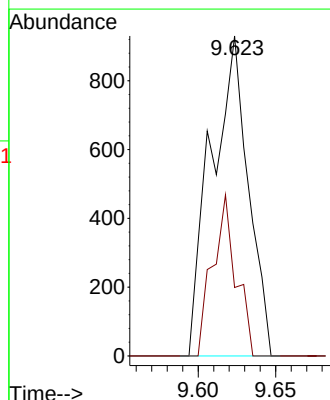
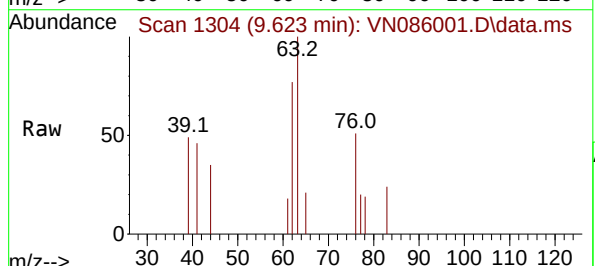
Acq: 18 Mar 2025 14:09

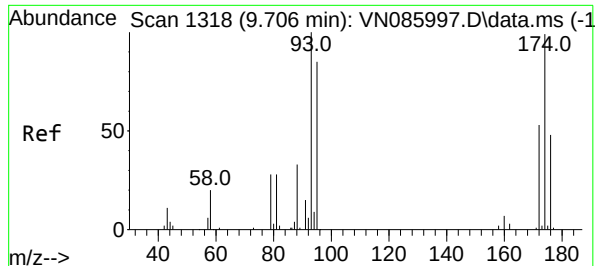
Tgt Ion: 63 Resp: 1541

Ion Ratio Lower Upper

63 100

65 21.4 24.7 37.1#





#46

Dibromomethane

Concen: 1.064 ug/l

RT: 9.700 min Scan# 1318

Delta R.T. -0.006 min

Lab File: VN086001.D

Acq: 18 Mar 2025 14:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion: 93 Resp: 1370

Ion Ratio Lower Upper

93 100

95 76.1 66.2 99.2

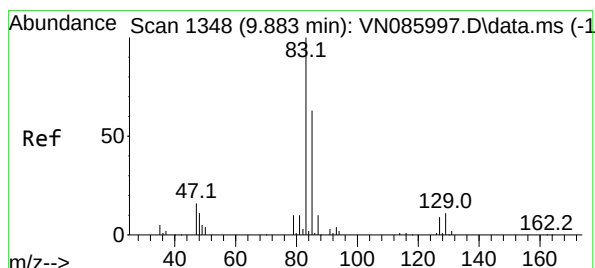
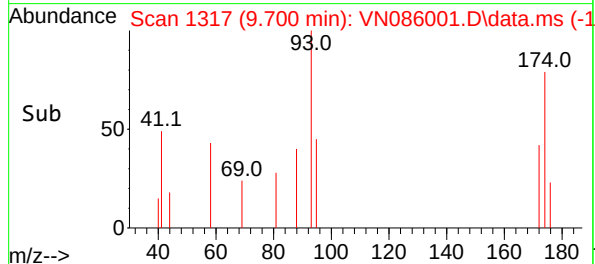
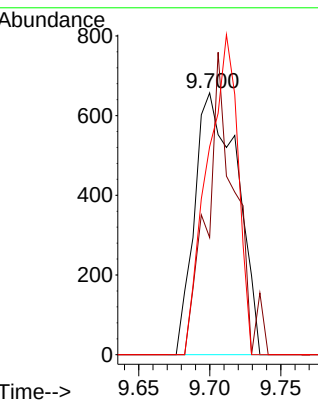
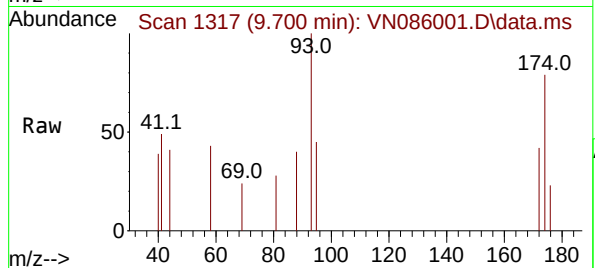
174 88.2 80.1 120.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#47

Bromodichloromethane

Concen: 0.995 ug/l

RT: 9.882 min Scan# 1348

Delta R.T. -0.000 min

Lab File: VN086001.D

Acq: 18 Mar 2025 14:09

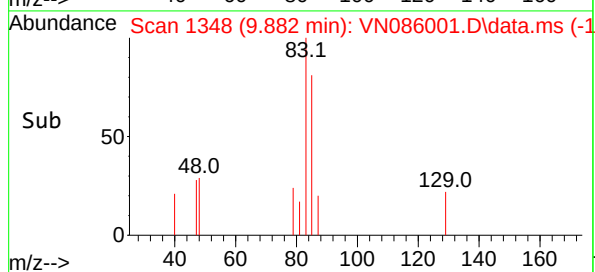
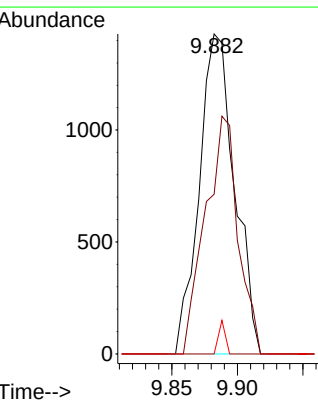
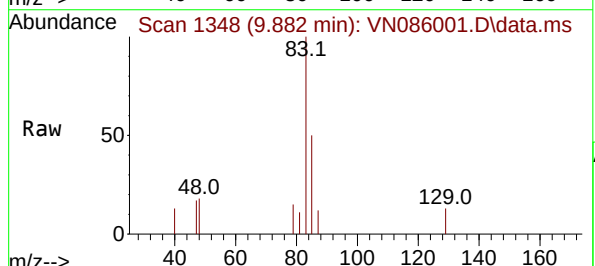
Tgt Ion: 83 Resp: 2680

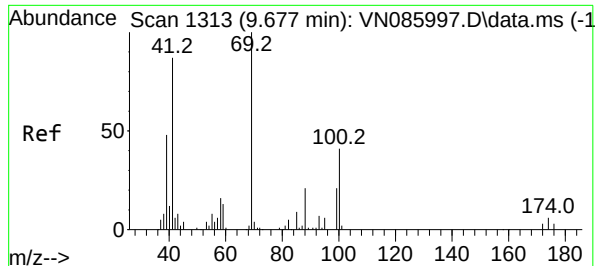
Ion Ratio Lower Upper

83 100

85 49.9 50.2 75.2#

127 0.0 7.1 10.7#





#48

Methyl methacrylate

Concen: 0.921 ug/l

RT: 9.682 min Scan# 1314

Delta R.T. 0.006 min

Lab File: VN086001.D

Acq: 18 Mar 2025 14:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

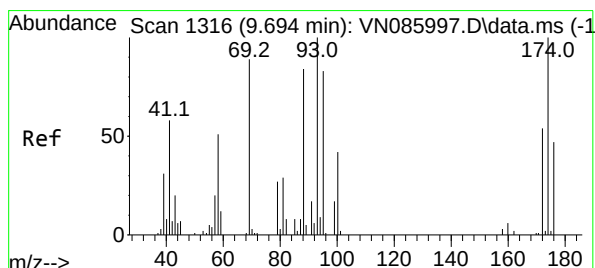
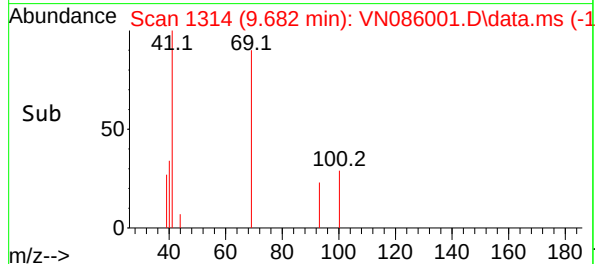
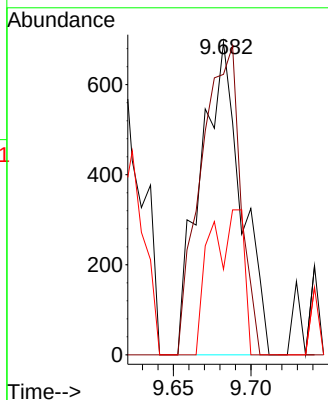
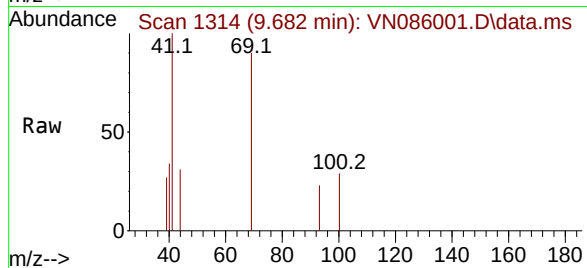
Tgt Ion:	41	Resp:	127
Ion	Ratio	Lower	Upper
41	100		
69	95.1	83.1	124.7
39	20.2	45.6	68.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#49

1,4-Dioxane

Concen: 13.999 ug/l

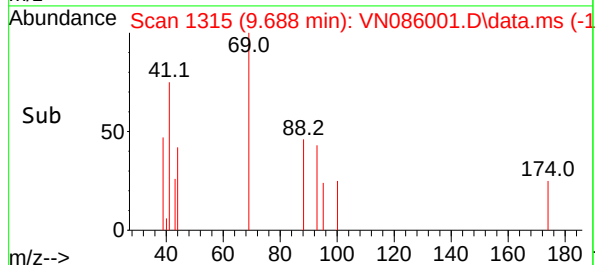
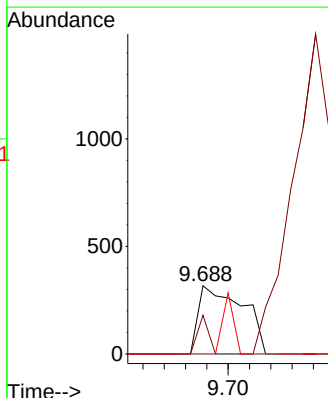
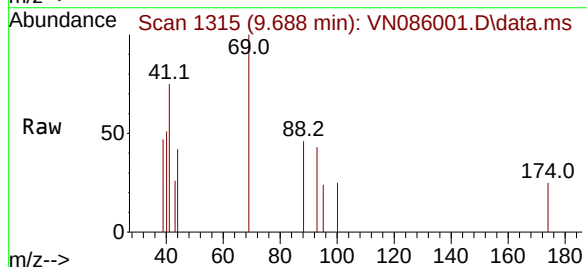
RT: 9.688 min Scan# 1315

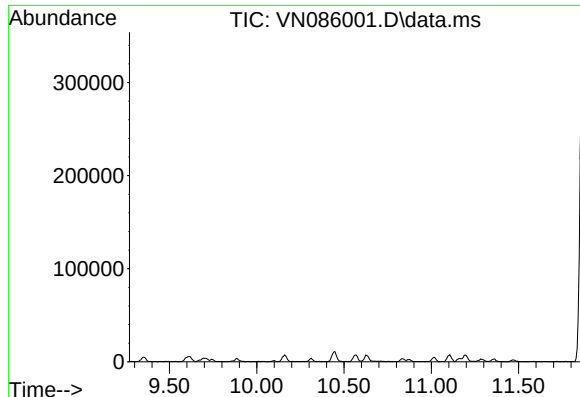
Delta R.T. -0.006 min

Lab File: VN086001.D

Acq: 18 Mar 2025 14:09

Tgt Ion:	88	Resp:	458
Ion	Ratio	Lower	Upper
88	100		
43	0.0	21.7	32.5#
58	21.8	50.4	75.6#





#50
Toluene-d8
Concen: 0.000 ug/l
Expected RT: 10.56 min

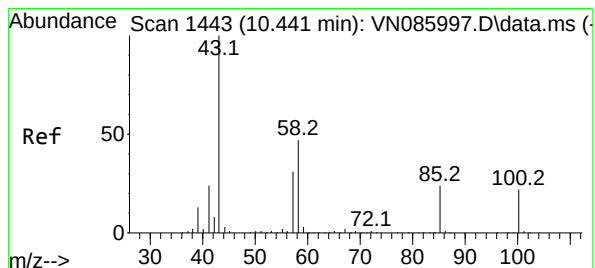
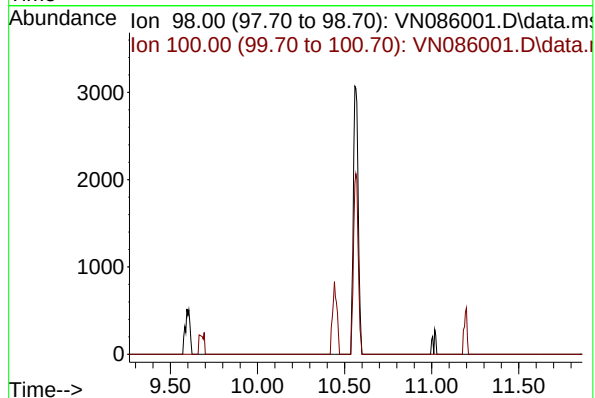
Lab File: VN086001.D
Acq: 18 Mar 2025 14:09

Tgt Ion: 98
Sig Exp Ratio
98 100
100 66.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

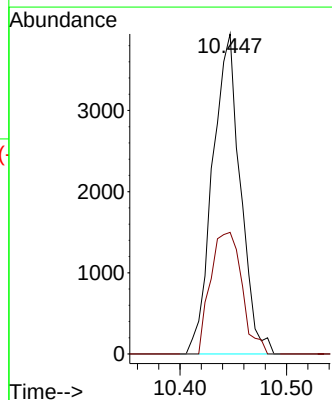
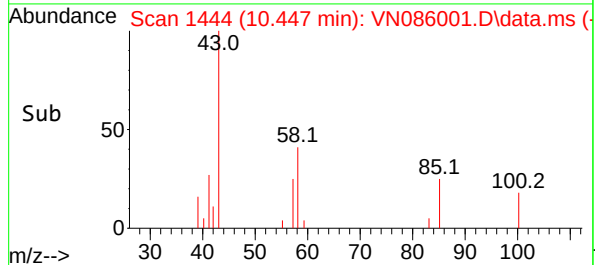
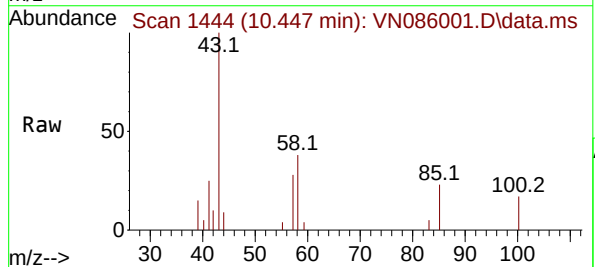
Manual Integrations
APPROVED

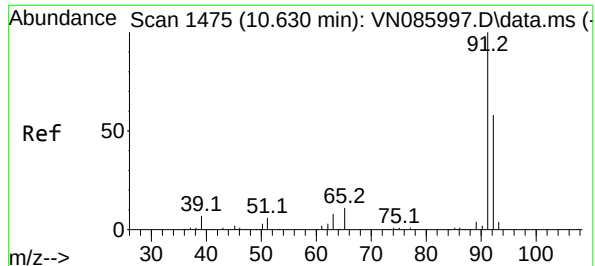
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#51
4-Methyl-2-Pentanone
Concen: 3.868 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.006 min
Lab File: VN086001.D
Acq: 18 Mar 2025 14:09

Tgt Ion: 43 Resp: 7154
Ion Ratio Lower Upper
43 100
58 42.8 37.4 56.0





#52

Toluene

Concen: 0.821 ug/l

RT: 10.629 min Scan# 1475

Delta R.T. -0.000 min

Lab File: VN086001.D

Acq: 18 Mar 2025 14:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion: 92 Resp: 363

Ion Ratio Lower Upper

92 100

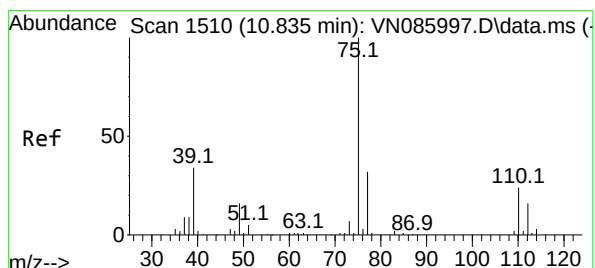
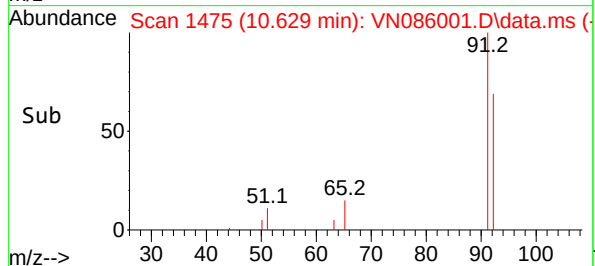
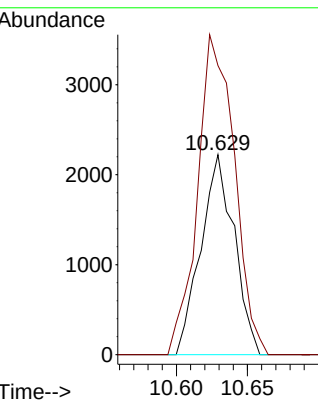
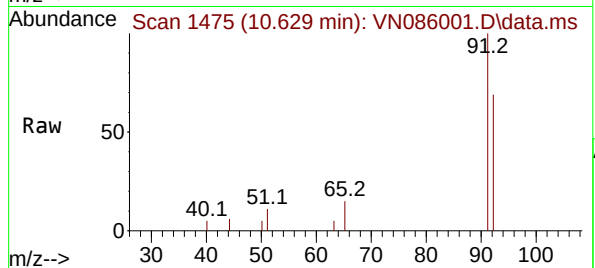
91 176.5 136.2 204.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#53

t-1,3-Dichloropropene

Concen: 0.851 ug/l

RT: 10.835 min Scan# 1510

Delta R.T. -0.000 min

Lab File: VN086001.D

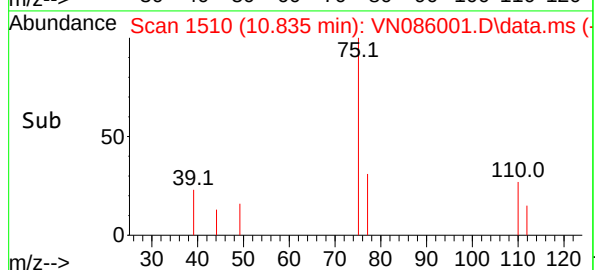
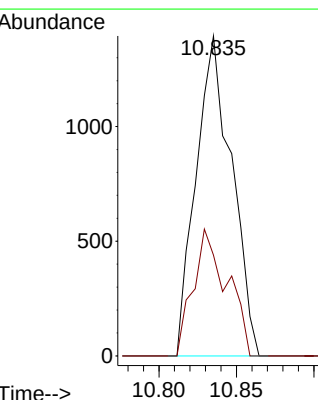
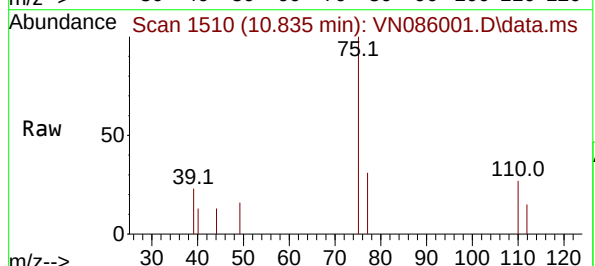
Acq: 18 Mar 2025 14:09

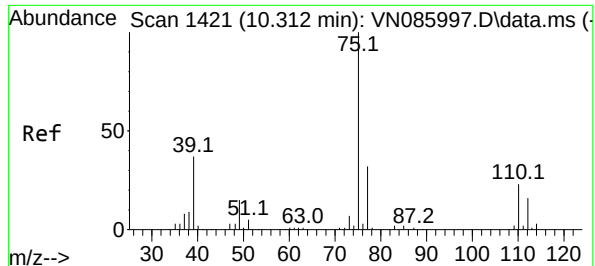
Tgt Ion: 75 Resp: 2225

Ion Ratio Lower Upper

75 100

77 31.5 25.3 37.9





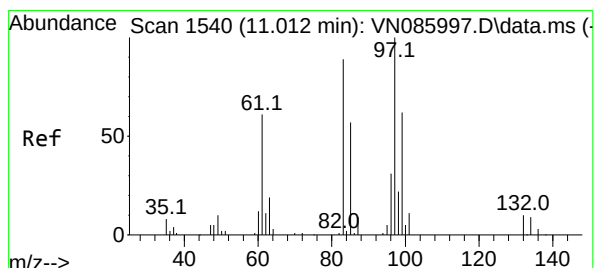
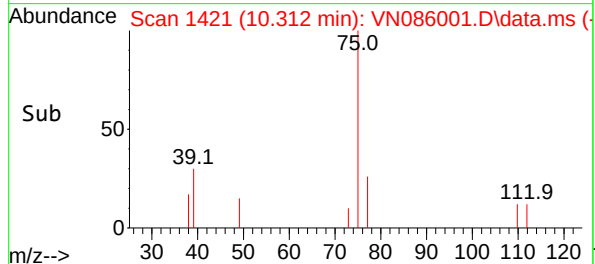
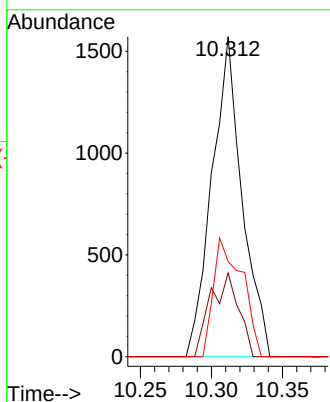
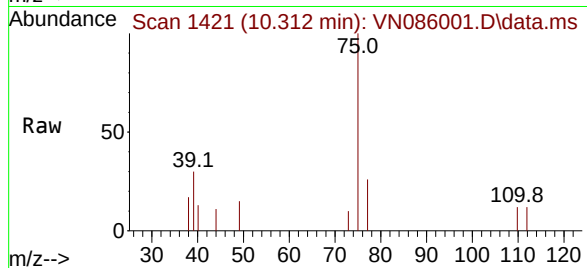
#54
cis-1,3-Dichloropropene
Concen: 0.840 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. -0.000 min
Lab File: VN086001.D
Acq: 18 Mar 2025 14:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 75 Resp: 2318
Ion Ratio Lower Upper
75 100
77 26.1 25.3 37.9
39 29.8 29.6 44.4

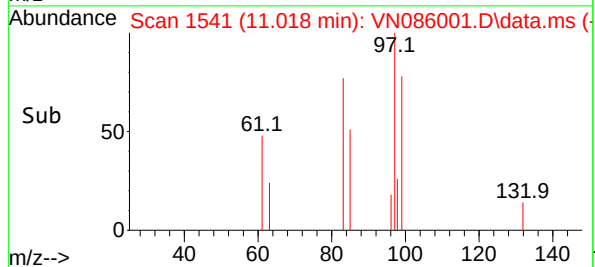
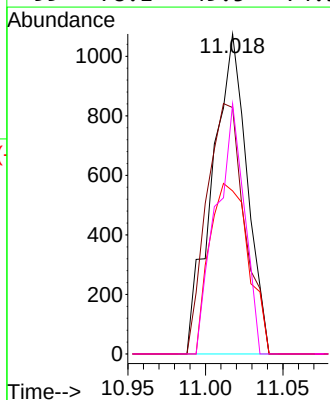
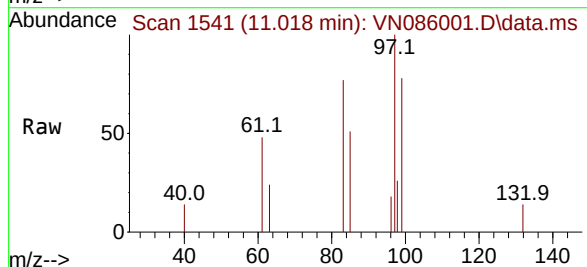
Manual Integrations
APPROVED

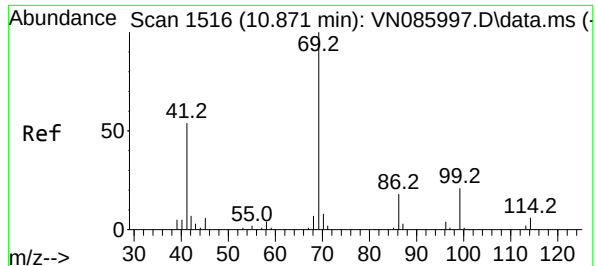
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#55
1,1,2-Trichloroethane
Concen: 0.990 ug/l
RT: 11.018 min Scan# 1541
Delta R.T. 0.006 min
Lab File: VN086001.D
Acq: 18 Mar 2025 14:09

Tgt Ion: 97 Resp: 1670
Ion Ratio Lower Upper
97 100
83 77.0 71.2 106.8
85 51.0 45.4 68.0
99 78.1 49.5 74.3#





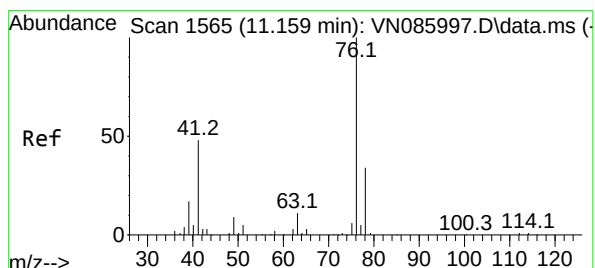
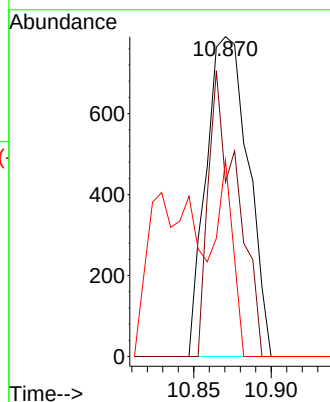
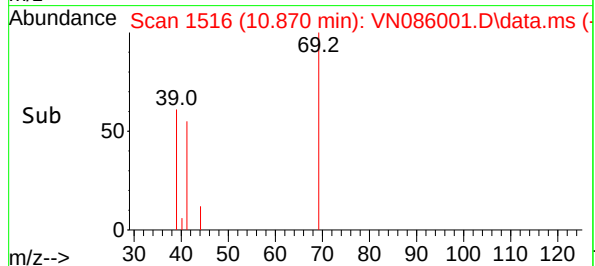
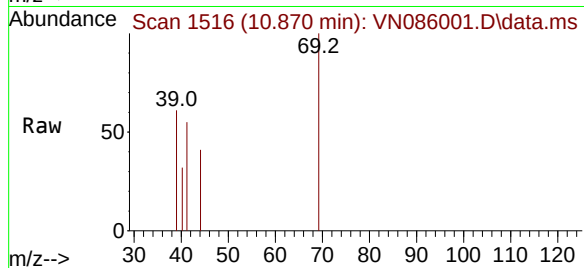
#56
Ethyl methacrylate
Concen: 0.886 ug/l
RT: 10.870 min Scan# 1516
Delta R.T. -0.001 min
Lab File: VN086001.D
Acq: 18 Mar 2025 14:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 69 Resp: 148
Ion Ratio Lower Upper
69 100
41 60.8 41.6 62.4
39 24.2 21.8 32.8

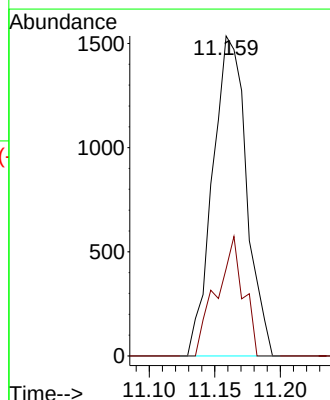
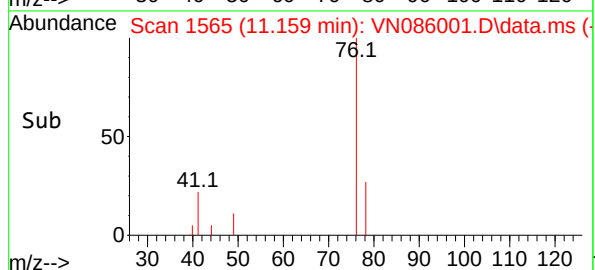
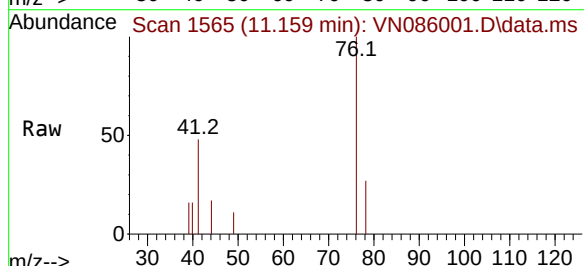
Manual Integrations
APPROVED

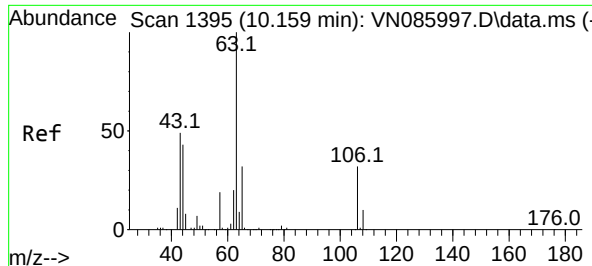
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#57
1,3-Dichloropropane
Concen: 0.960 ug/l
RT: 11.159 min Scan# 1565
Delta R.T. -0.000 min
Lab File: VN086001.D
Acq: 18 Mar 2025 14:09

Tgt Ion: 76 Resp: 2752
Ion Ratio Lower Upper
76 100
78 29.9 25.8 38.6





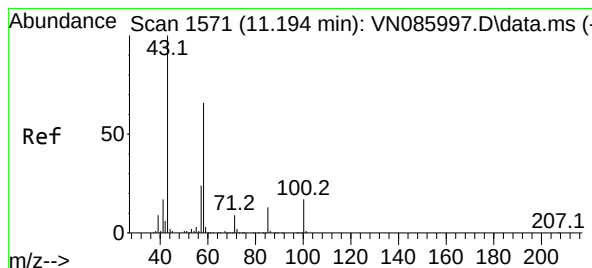
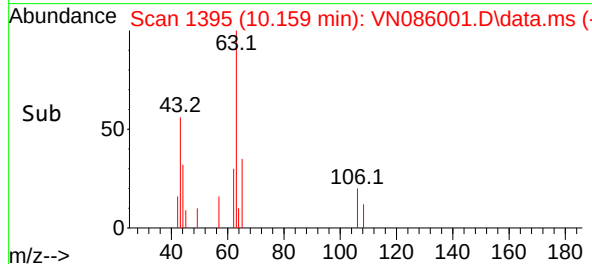
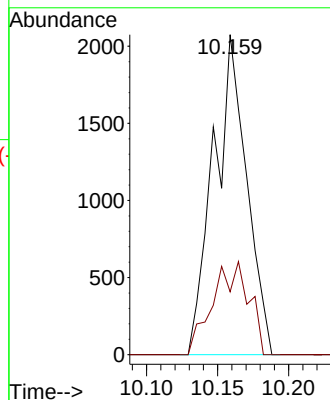
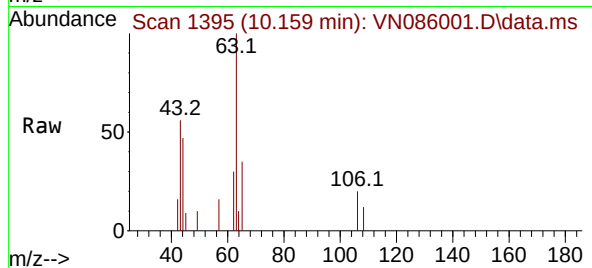
#58
2-Chloroethyl Vinyl ether
Concen: 7.514 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VN086001.D
Acq: 18 Mar 2025 14:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 63 Resp: 335
Ion Ratio Lower Upper
63 100
106 31.8 25.0 37.6

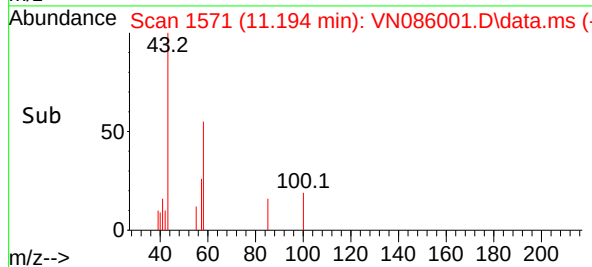
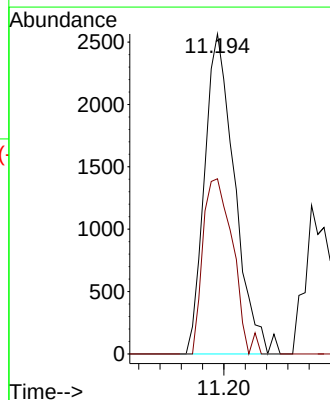
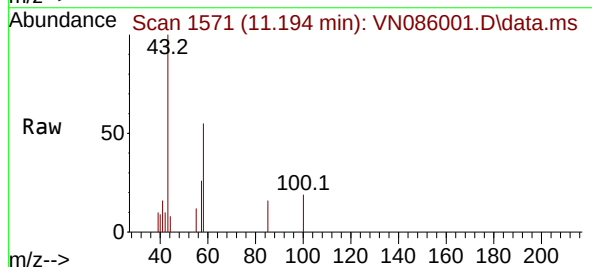
Manual Integrations
APPROVED

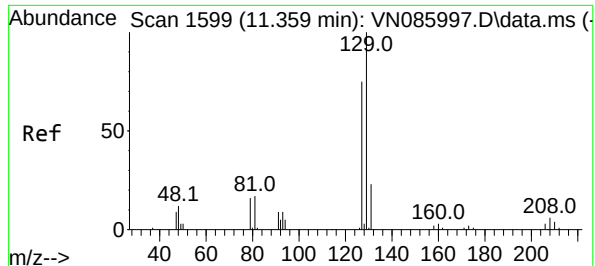
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#59
2-Hexanone
Concen: 3.734 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. -0.000 min
Lab File: VN086001.D
Acq: 18 Mar 2025 14:09

Tgt Ion: 43 Resp: 5032
Ion Ratio Lower Upper
43 100
58 54.2 32.4 97.2





#60

Dibromochloromethane

Concen: 0.954 ug/l

RT: 11.359 min Scan# 1599

Delta R.T. -0.000 min

Lab File: VN086001.D

Acq: 18 Mar 2025 14:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Tgt Ion:129 Resp: 207

Ion Ratio Lower Upper

129 100

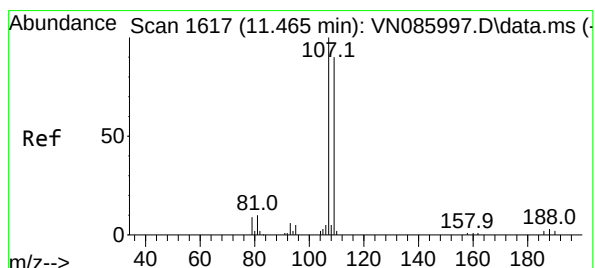
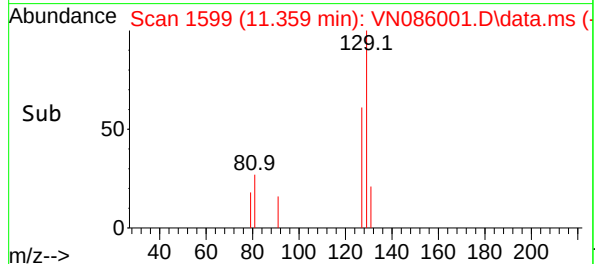
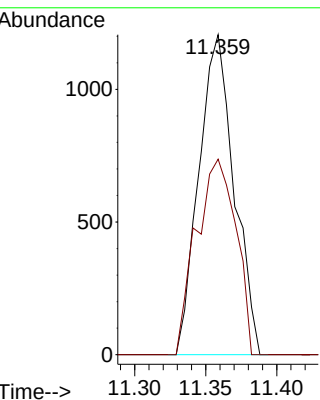
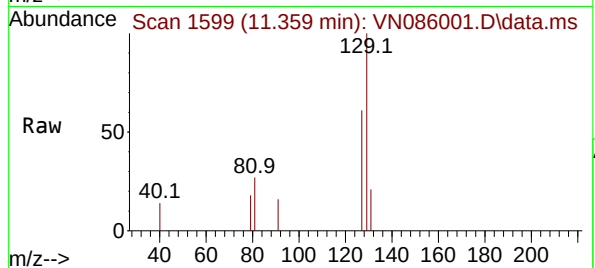
127 69.0 37.8 113.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#61

1,2-Dibromoethane

Concen: 0.938 ug/l

RT: 11.465 min Scan# 1617

Delta R.T. -0.000 min

Lab File: VN086001.D

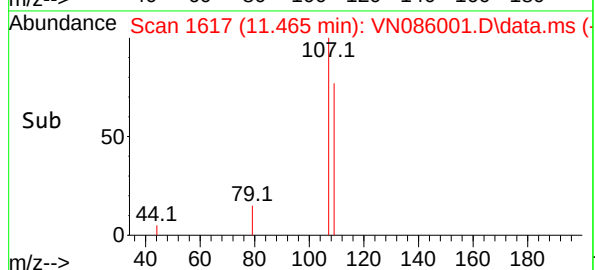
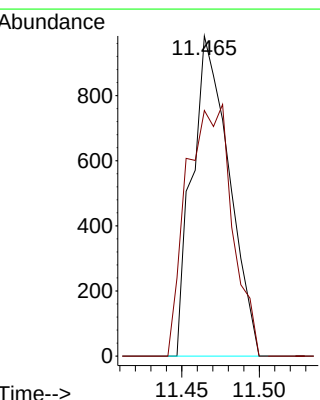
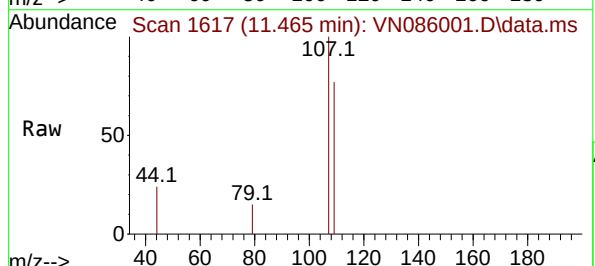
Acq: 18 Mar 2025 14:09

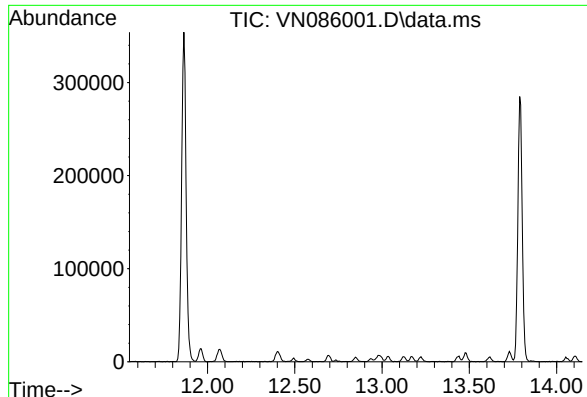
Tgt Ion:107 Resp: 1624

Ion Ratio Lower Upper

107 100

109 97.2 73.3 109.9





#62
4-Bromofluorobenzene
Concen: 0.000 ug/l
Expected RT: 12.85 min

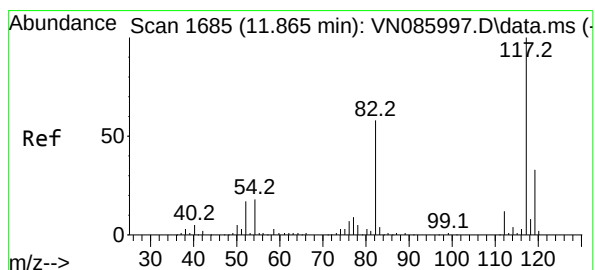
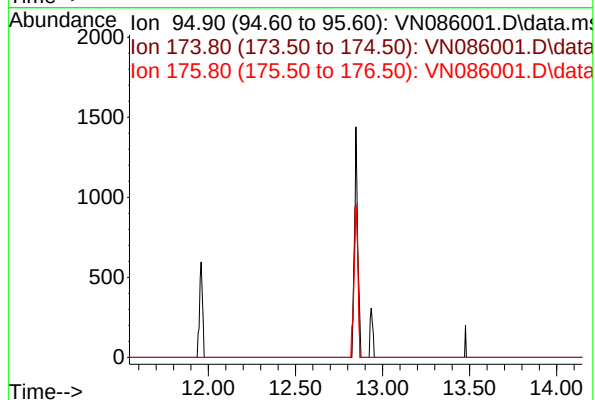
Lab File: VN086001.D
Acq: 18 Mar 2025 14:09

Tgt Ion: 95
Sig Exp Ratio
95 100
174 78.4
176 76.1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

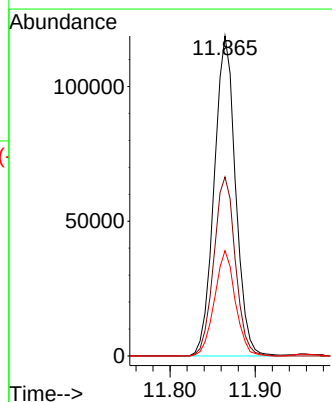
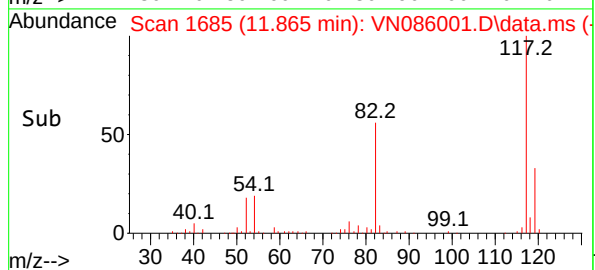
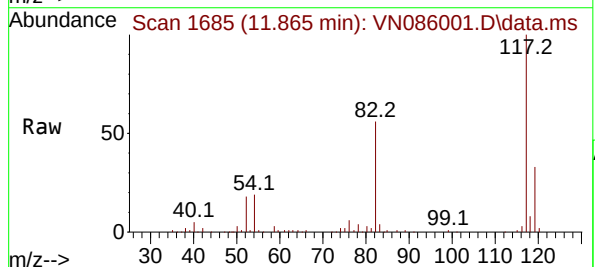
Manual Integrations
APPROVED

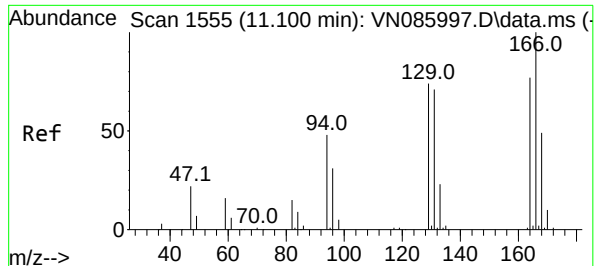
Reviewed By : John Carlone 03/19/2025
Supervised By : Mahesh Dadoda 03/19/2025



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086001.D
Acq: 18 Mar 2025 14:09

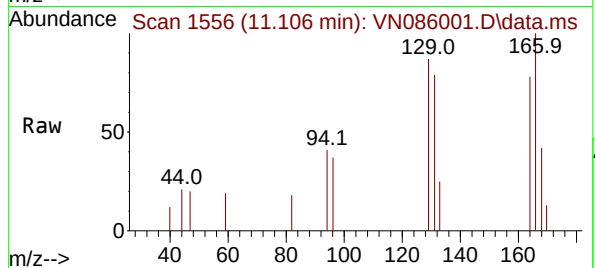
Tgt Ion: 117 Resp: 206893
Ion Ratio Lower Upper
117 100
82 56.0 46.7 70.1
119 32.9 26.5 39.7





#64
Tetrachloroethene
Concen: 1.086 ug/l
RT: 11.106 min Scan# 1555
Delta R.T. 0.006 min
Lab File: VN086001.D
Acq: 18 Mar 2025 14:09

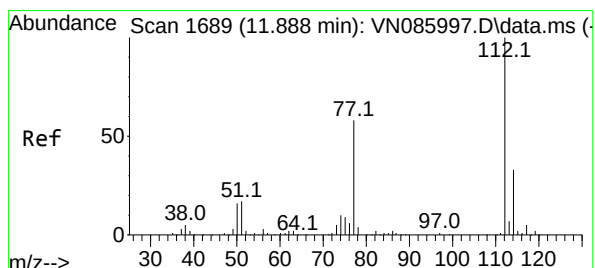
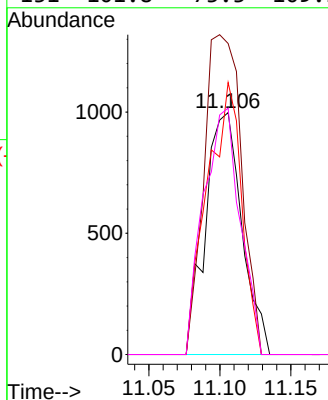
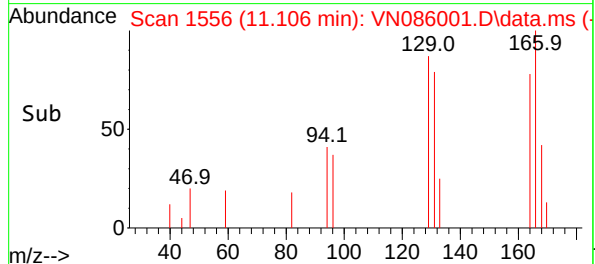
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001



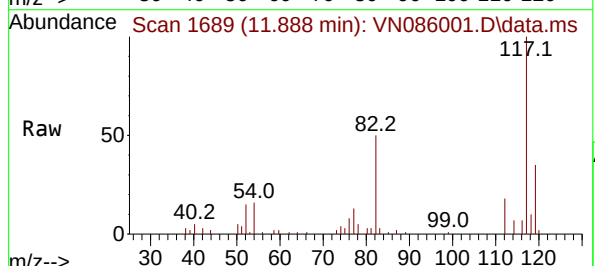
Tgt Ion:164 Resp: 179
Ion Ratio Lower Upper
164 100
166 128.6 103.7 155.5
129 112.4 77.1 115.7
131 101.8 73.3 109.9

Manual Integrations
APPROVED

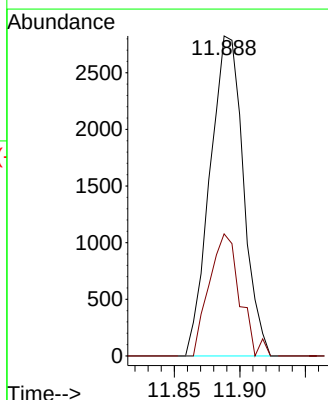
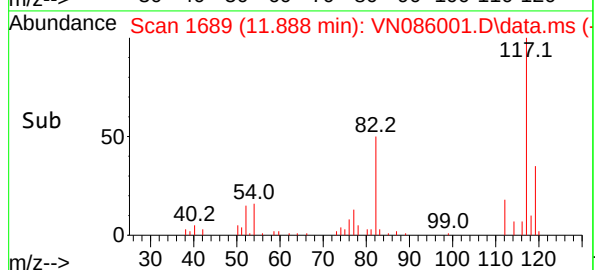
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025

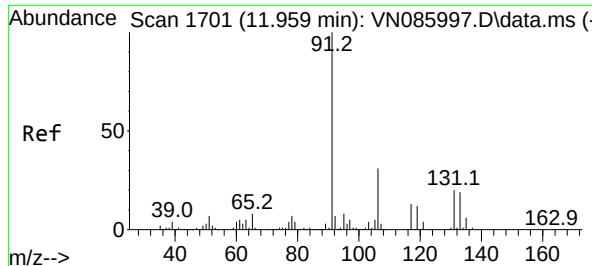


#65
Chlorobenzene
Concen: 1.056 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. -0.000 min
Lab File: VN086001.D
Acq: 18 Mar 2025 14:09



Tgt Ion:112 Resp: 5000
Ion Ratio Lower Upper
112 100
114 38.1 26.3 39.5





#66

1,1,1,2-Tetrachloroethane

Concen: 1.047 ug/l

RT: 11.953 min Scan# 1700

Delta R.T. -0.006 min

Lab File: VN086001.D

Acq: 18 Mar 2025 14:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

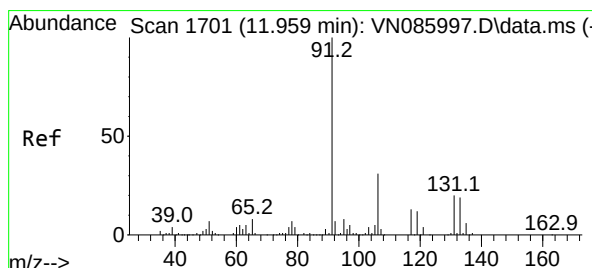
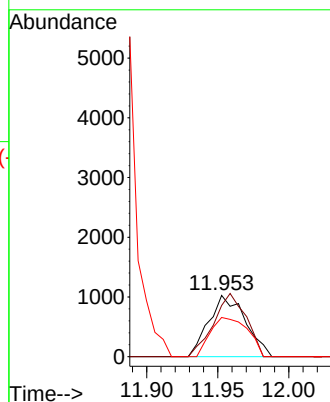
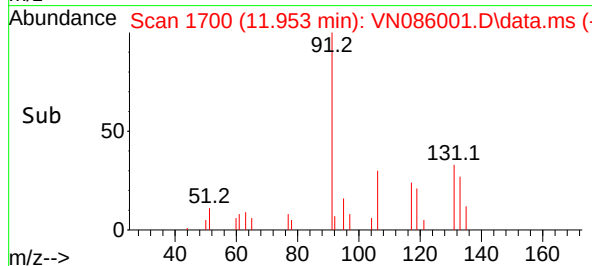
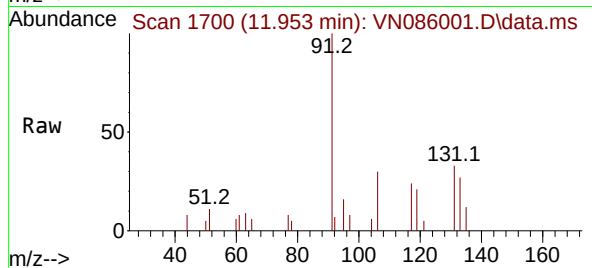
Tgt Ion	Ratio	Lower	Upper
131	100		
133	91.5	47.0	141.0
119	0.0	31.4	94.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#67

Ethyl Benzene

Concen: 0.866 ug/l

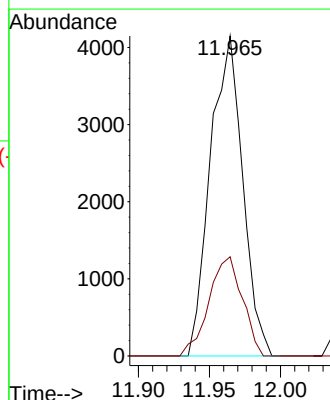
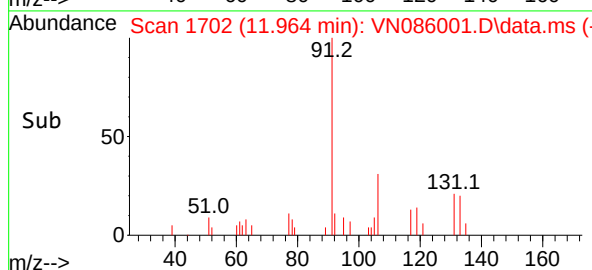
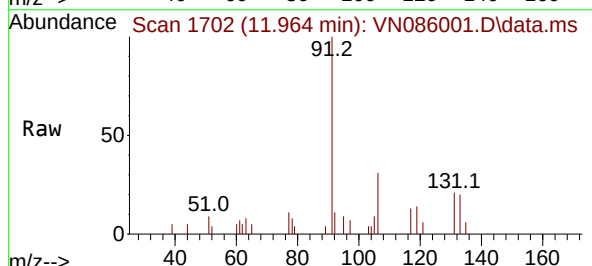
RT: 11.964 min Scan# 1702

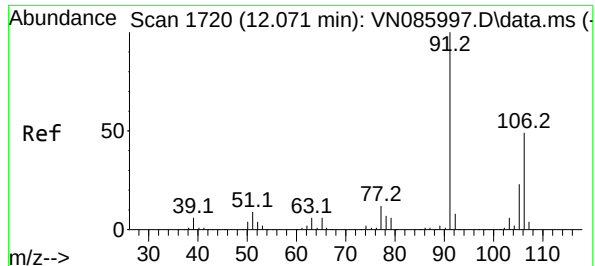
Delta R.T. 0.006 min

Lab File: VN086001.D

Acq: 18 Mar 2025 14:09

Tgt Ion	Ratio	Lower	Upper
91	100		
106	31.0	24.5	36.7





#68

m/p-Xylenes

Concen: 1.787 ug/l

RT: 12.070 min Scan# 1720

Delta R.T. -0.000 min

Lab File: VN086001.D

Acq: 18 Mar 2025 14:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion:106 Resp: 5319

Ion Ratio Lower Upper

106 100

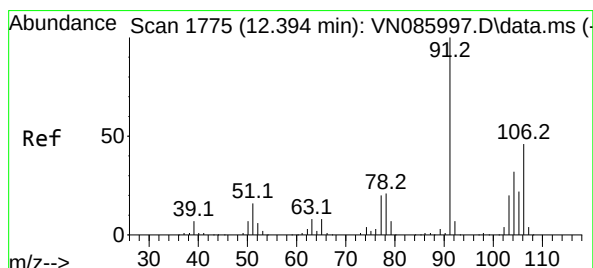
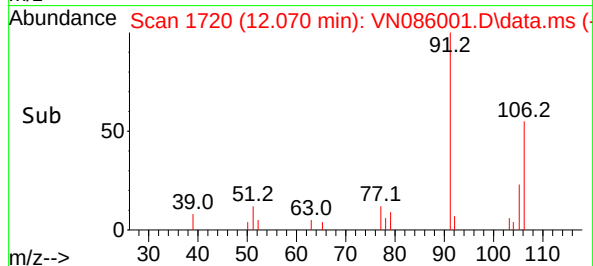
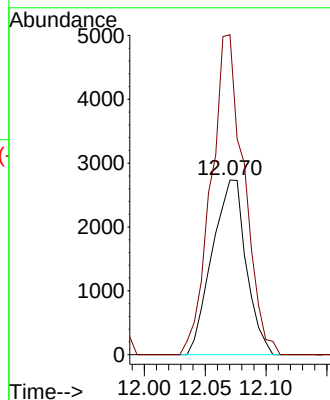
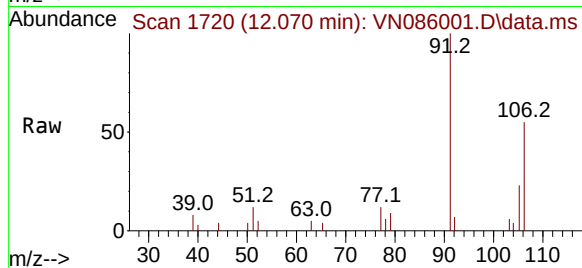
91 177.4 163.9 245.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#69

o-Xylene

Concen: 0.805 ug/l

RT: 12.400 min Scan# 1776

Delta R.T. 0.006 min

Lab File: VN086001.D

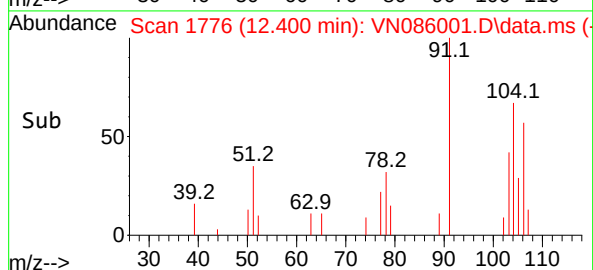
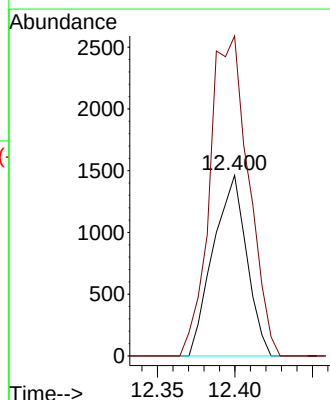
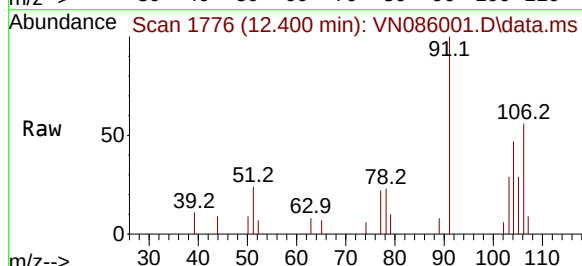
Acq: 18 Mar 2025 14:09

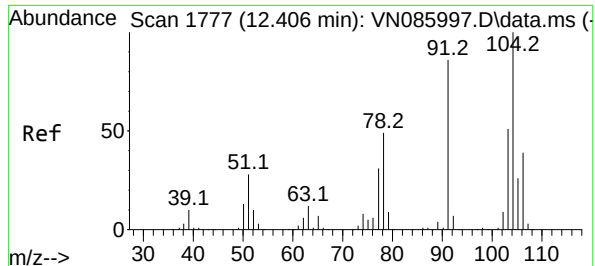
Tgt Ion:106 Resp: 2200

Ion Ratio Lower Upper

106 100

91 205.0 109.1 327.2





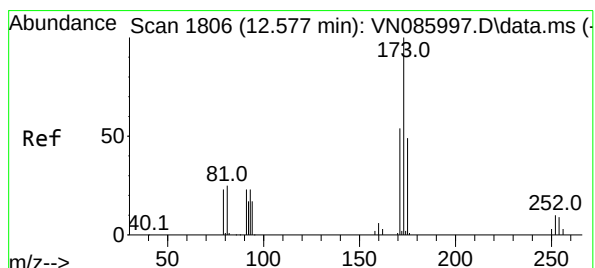
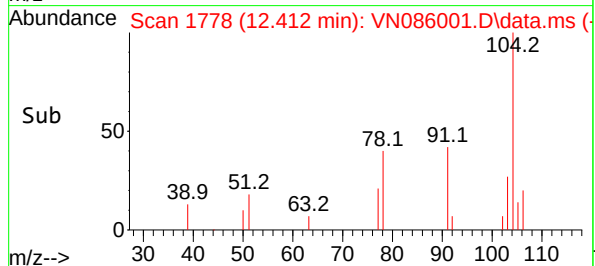
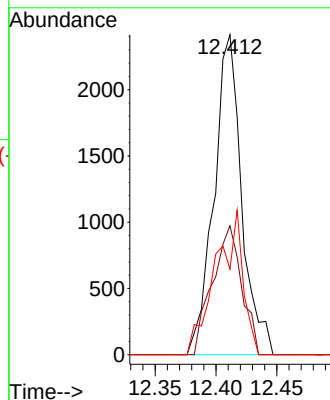
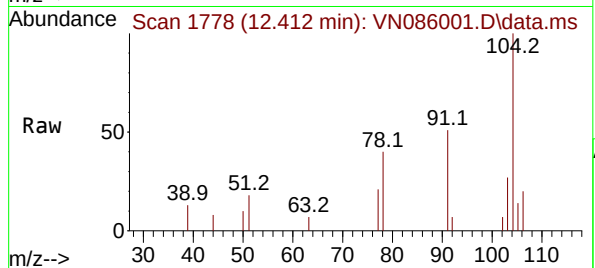
#70
Styrene
Concen: 0.819 ug/l
RT: 12.412 min Scan# 1777
Delta R.T. 0.006 min
Lab File: VN086001.D
Acq: 18 Mar 2025 14:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

Tgt Ion:104 Resp: 382
Ion Ratio Lower Upper
104 100
78 42.7 41.4 62.2
103 44.5 42.9 64.3

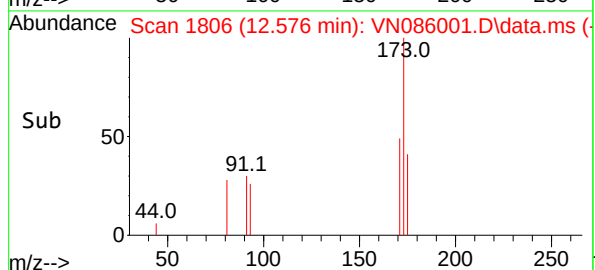
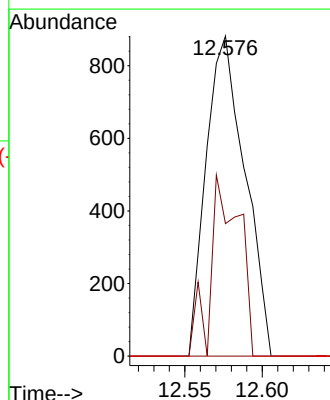
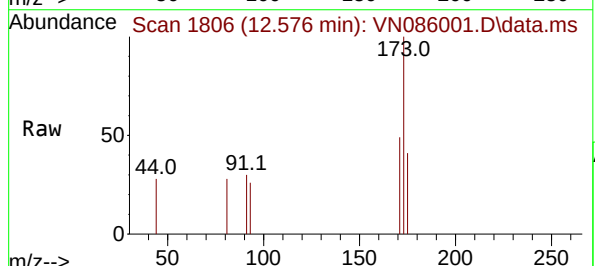
Manual Integrations
APPROVED

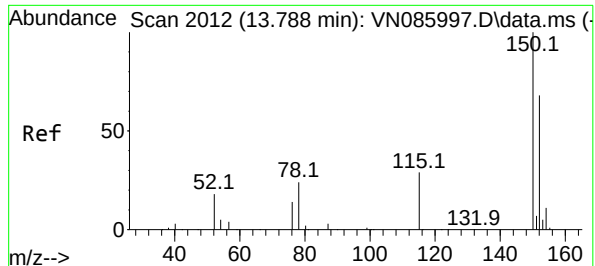
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#71
Bromoform
Concen: 1.044 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. -0.000 min
Lab File: VN086001.D
Acq: 18 Mar 2025 14:09

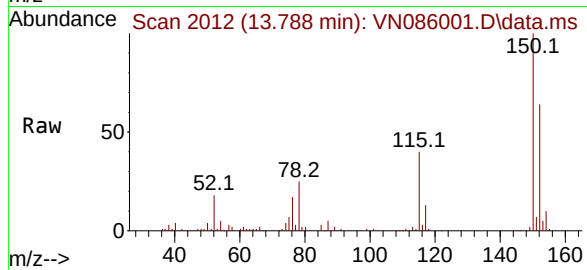
Tgt Ion:173 Resp: 1536
Ion Ratio Lower Upper
173 100
175 42.3 24.3 73.0
254 0.0 0.0 0.0





#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN086001.D
Acq: 18 Mar 2025 14:09

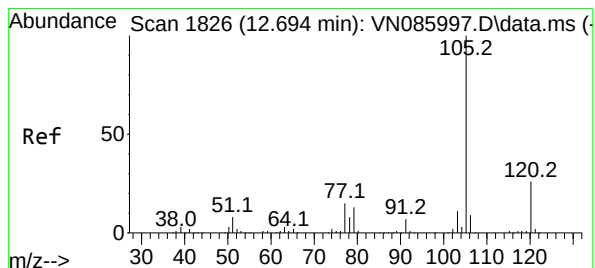
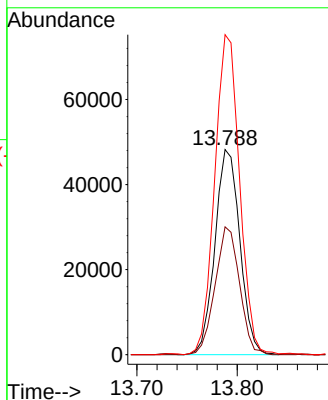
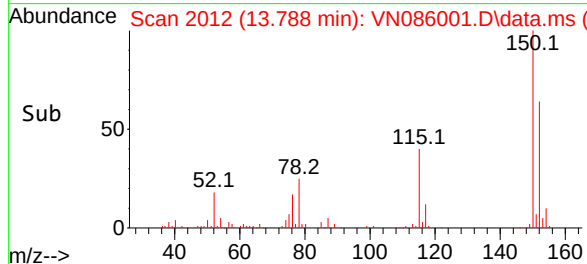
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001



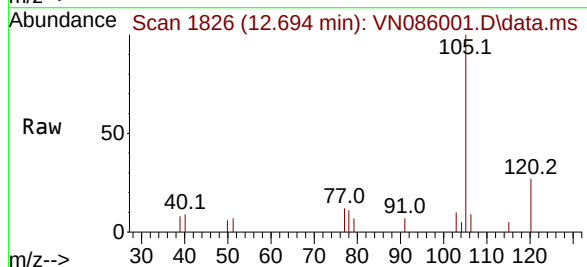
Tgt Ion:152 Resp: 83272
Ion Ratio Lower Upper
152 100
115 61.0 31.1 93.2
150 155.9 0.0 359.6

Manual Integrations
APPROVED

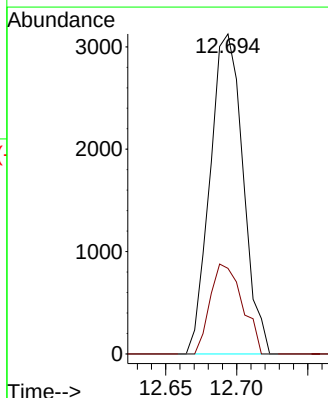
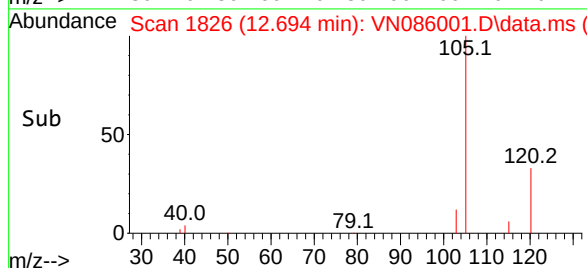
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025

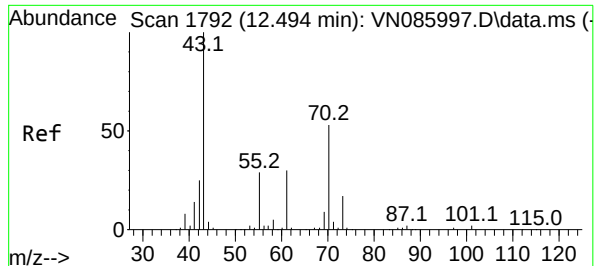


#73
Isopropylbenzene
Concen: 0.890 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. -0.000 min
Lab File: VN086001.D
Acq: 18 Mar 2025 14:09



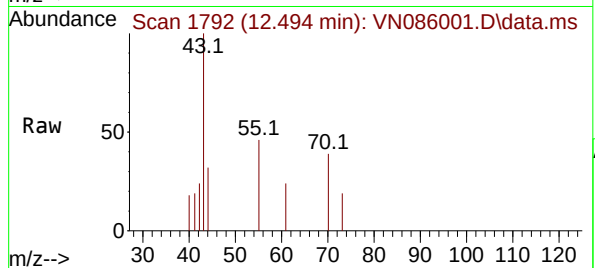
Tgt Ion:105 Resp: 5061
Ion Ratio Lower Upper
105 100
120 27.4 13.0 39.0





#74
N-amy1 acetate
Concen: 0.861 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. -0.000 min
Lab File: VN086001.D
Acq: 18 Mar 2025 14:09

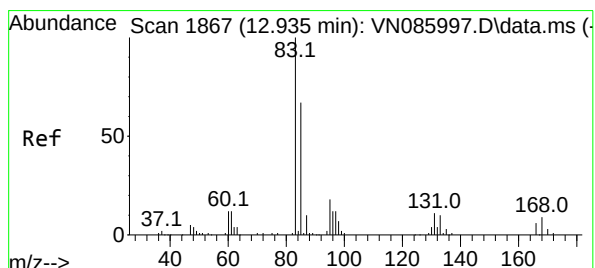
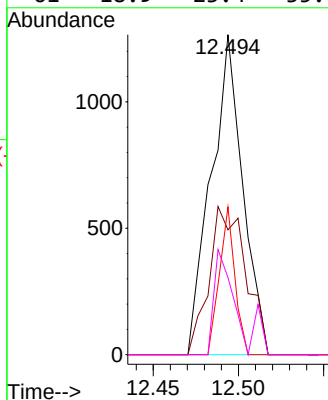
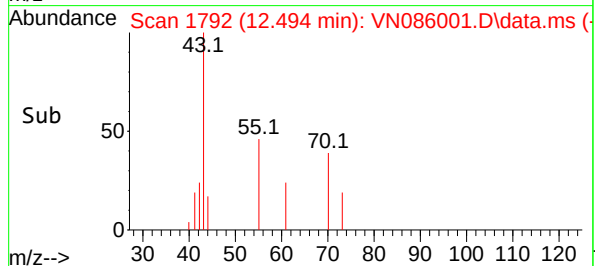
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001



Tgt Ion: 43 Resp: 1639
Ion Ratio Lower Upper
43 100
70 53.4 43.0 64.4
55 22.5 23.8 35.8
61 18.9 23.4 35.0#

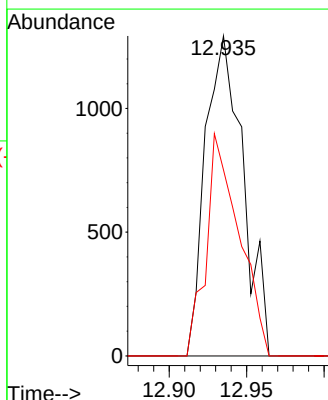
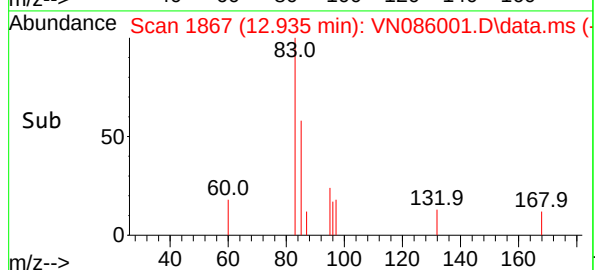
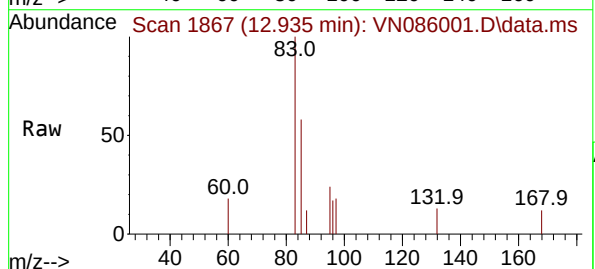
Manual Integrations
APPROVED

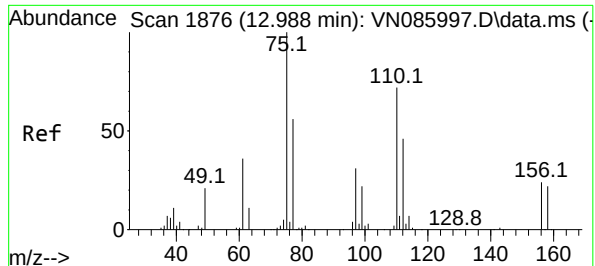
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#75
1,1,2,2-Tetrachloroethane
Concen: 1.135 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. -0.000 min
Lab File: VN086001.D
Acq: 18 Mar 2025 14:09

Tgt Ion: 83 Resp: 2184
Ion Ratio Lower Upper
83 100
131 0.0 5.5 16.5#
85 60.7 32.6 97.8





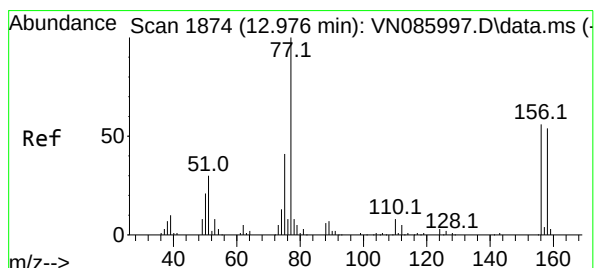
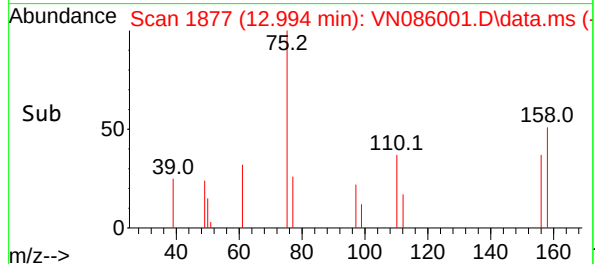
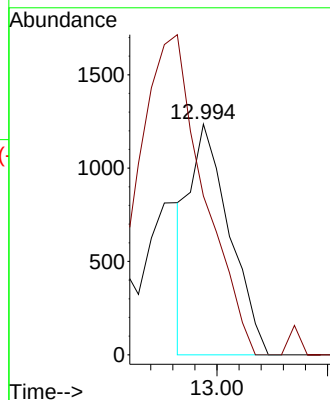
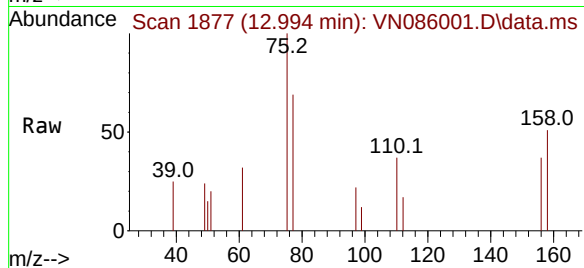
#76
1,2,3-Trichloropropane
Concen: 0.812 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. 0.006 min
Lab File: VN086001.D
Acq: 18 Mar 2025 14:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 75 Resp: 154
Ion Ratio Lower Upper
75 100
77 228.0 83.7 251.0

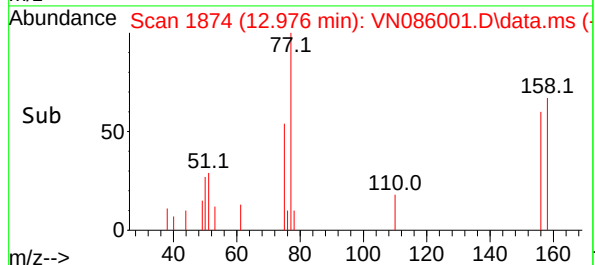
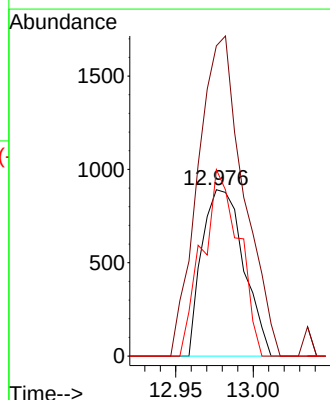
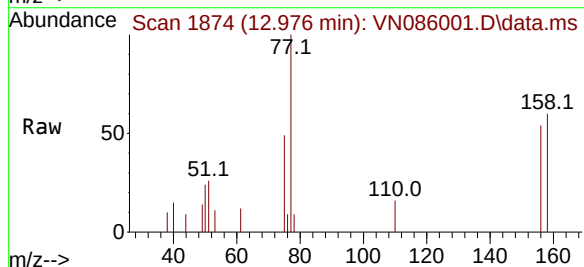
Manual Integrations
APPROVED

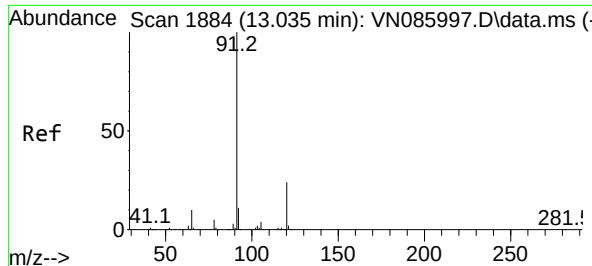
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#77
Bromobenzene
Concen: 1.051 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. -0.000 min
Lab File: VN086001.D
Acq: 18 Mar 2025 14:09

Tgt Ion:156 Resp: 1666
Ion Ratio Lower Upper
156 100
77 210.9 104.1 312.3
158 99.8 49.0 147.0





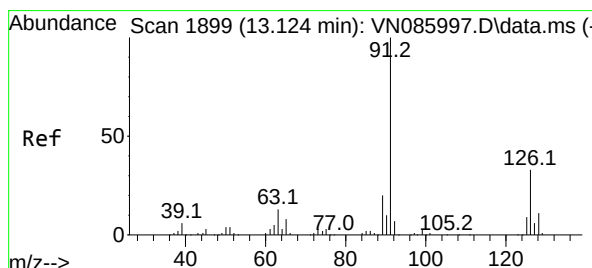
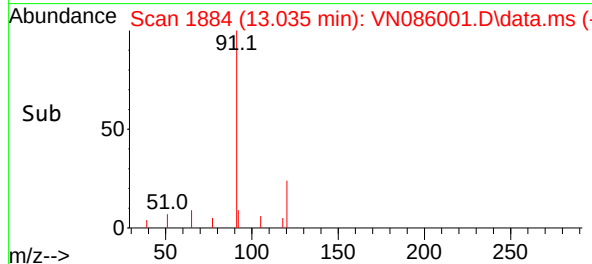
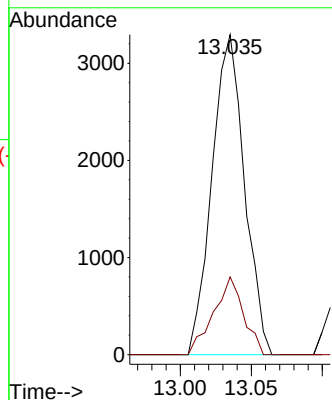
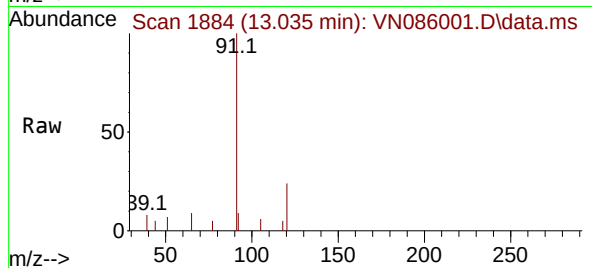
#78
n-propylbenzene
Concen: 0.814 ug/l
RT: 13.035 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086001.D
Acq: 18 Mar 2025 14:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 91 Resp: 524
Ion Ratio Lower Upper
91 100
120 22.4 11.7 35.0

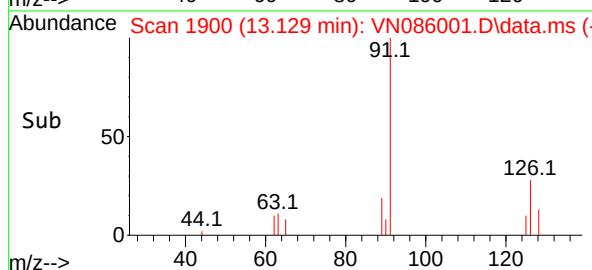
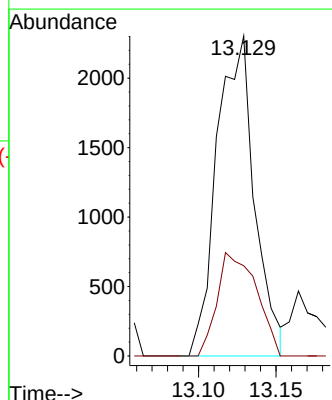
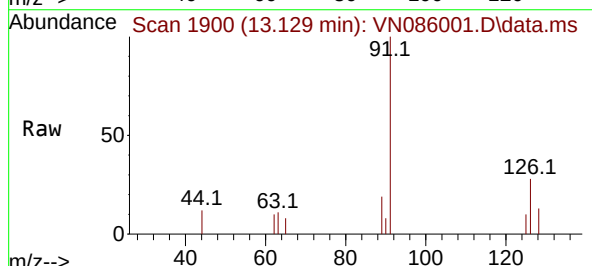
Manual Integrations
APPROVED

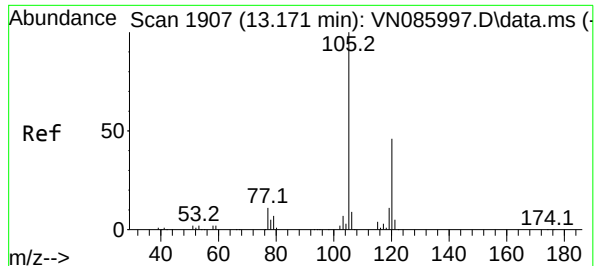
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#79
2-Chlorotoluene
Concen: 0.909 ug/l
RT: 13.129 min Scan# 1900
Delta R.T. 0.006 min
Lab File: VN086001.D
Acq: 18 Mar 2025 14:09

Tgt Ion: 91 Resp: 3888
Ion Ratio Lower Upper
91 100
126 33.7 16.4 49.2





#80

1,3,5-Trimethylbenzene

Concen: 0.830 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VN086001.D

Acq: 18 Mar 2025 14:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion:105 Resp: 3984

Ion Ratio Lower Upper

105 100

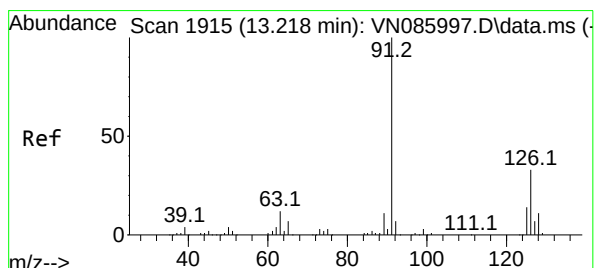
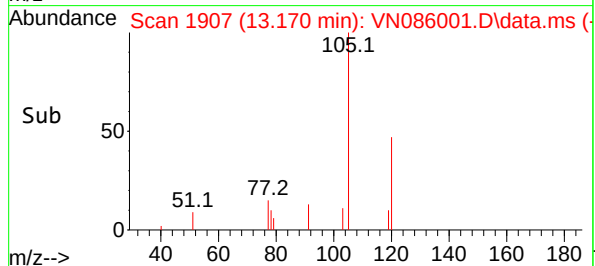
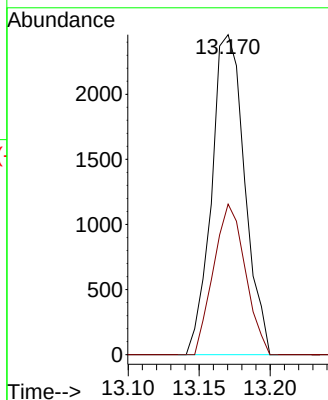
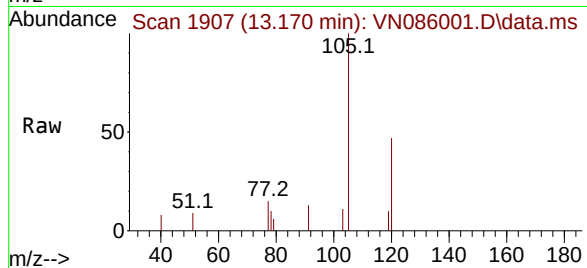
120 45.1 23.7 71.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#82

4-Chlorotoluene

Concen: 0.925 ug/l

RT: 13.223 min Scan# 1916

Delta R.T. 0.006 min

Lab File: VN086001.D

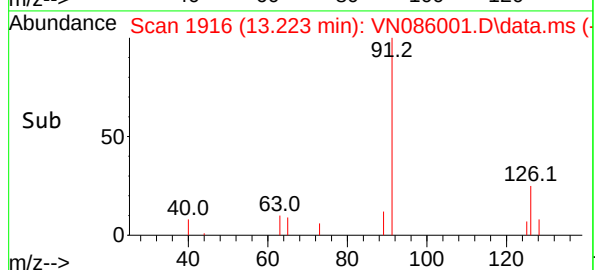
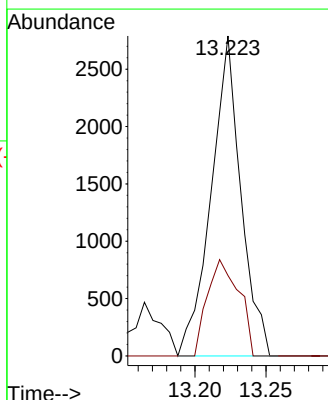
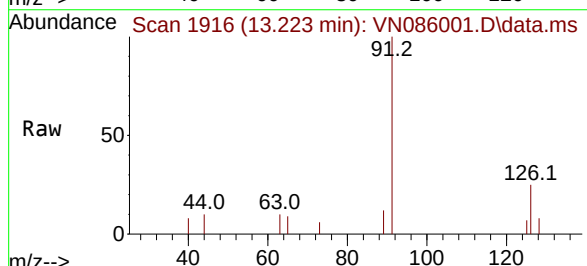
Acq: 18 Mar 2025 14:09

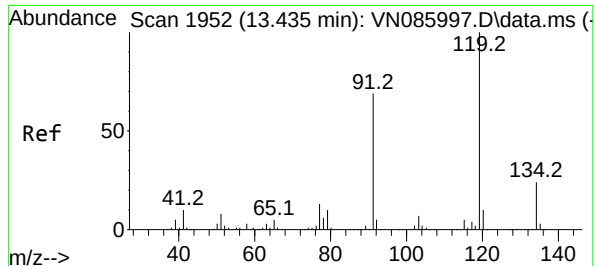
Tgt Ion: 91 Resp: 4068

Ion Ratio Lower Upper

91 100

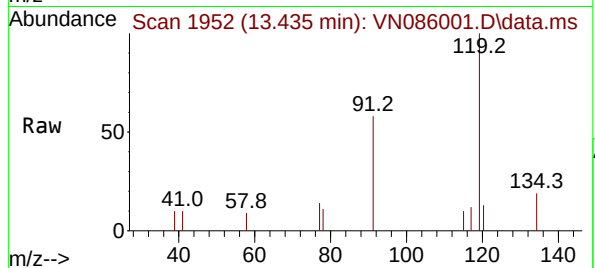
126 32.0 16.1 48.2





#83
tert-Butylbenzene
Concen: 0.965 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. -0.000 min
Lab File: VN086001.D
Acq: 18 Mar 2025 14:09

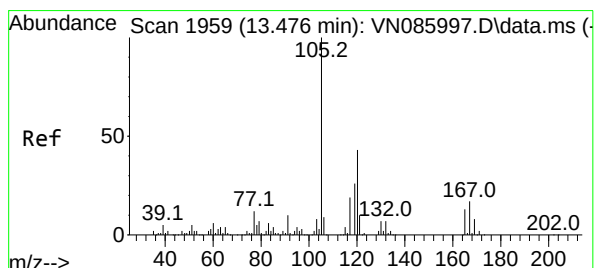
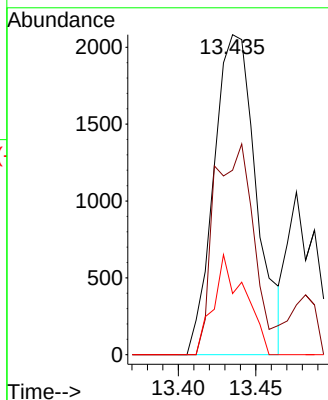
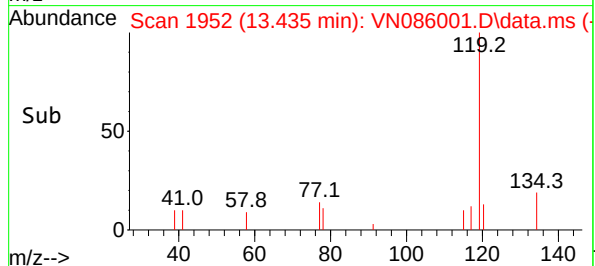
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001



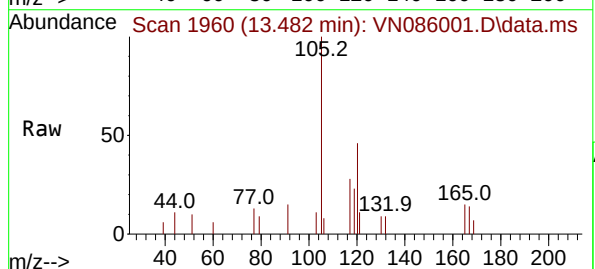
Tgt Ion:119 Resp: 396
Ion Ratio Lower Upper
119 100
91 62.0 34.3 102.9
134 23.1 13.5 40.5

Manual Integrations
APPROVED

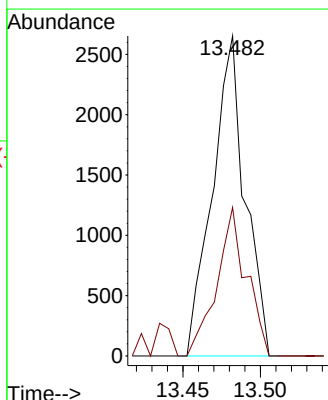
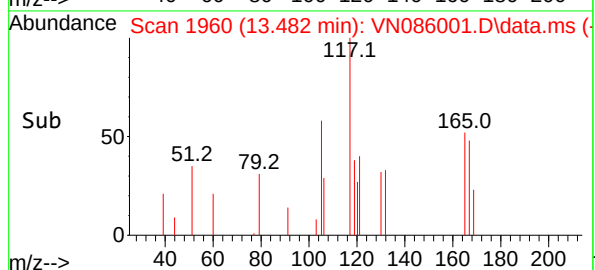
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025

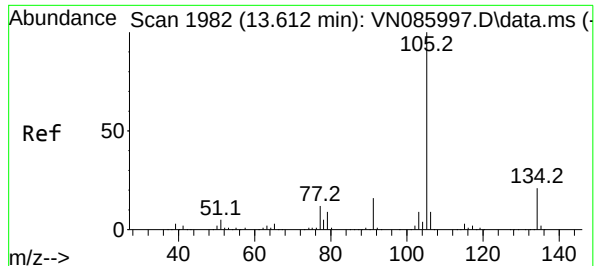


#84
1,2,4-Trimethylbenzene
Concen: 0.801 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.006 min
Lab File: VN086001.D
Acq: 18 Mar 2025 14:09



Tgt Ion:105 Resp: 3881
Ion Ratio Lower Upper
105 100
120 42.2 21.9 65.8





#85

sec-Butylbenzene

Concen: 0.753 ug/l

RT: 13.617 min Scan# 1982

Delta R.T. 0.006 min

Lab File: VN086001.D

Acq: 18 Mar 2025 14:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

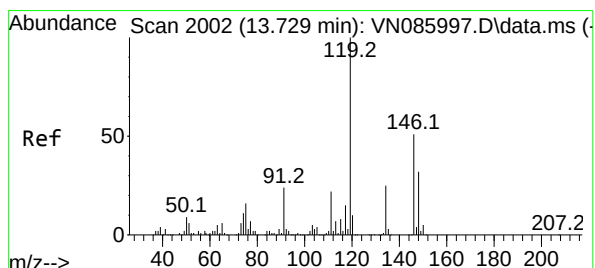
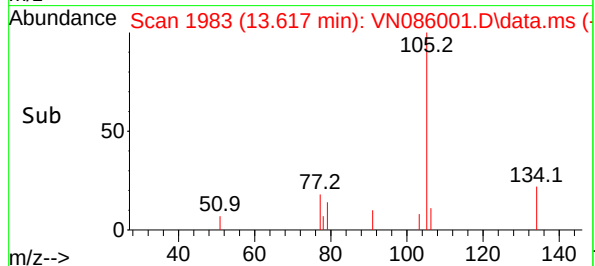
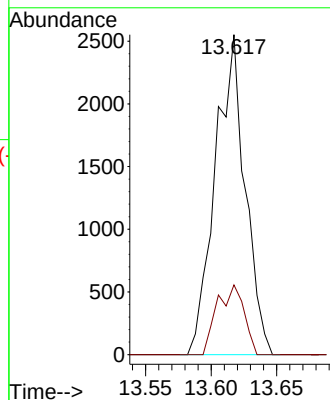
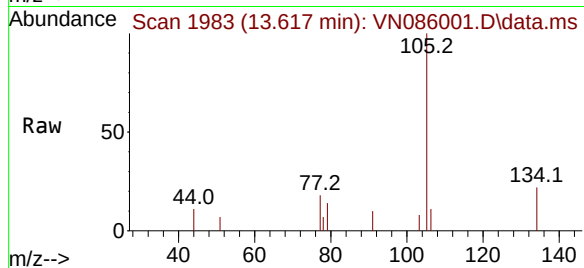
Tgt Ion:	105	Resp:	403
Ion Ratio	Lower	Upper	
105	100		
134	19.7	10.1	30.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#86

p-Isopropyltoluene

Concen: 0.767 ug/l

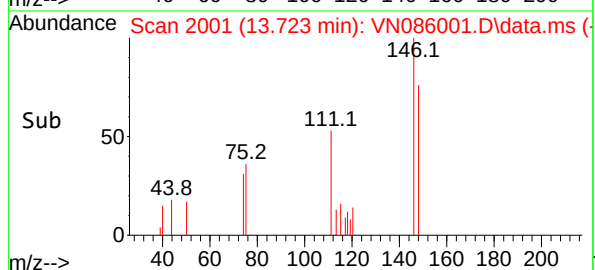
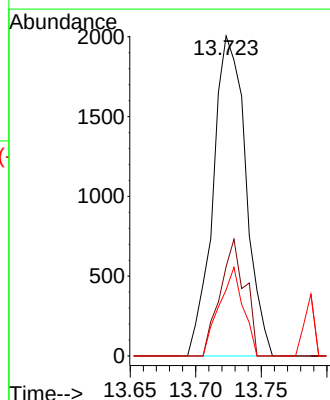
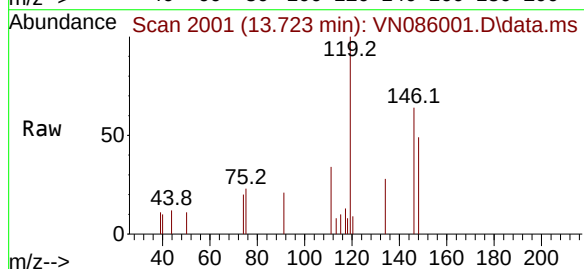
RT: 13.723 min Scan# 2001

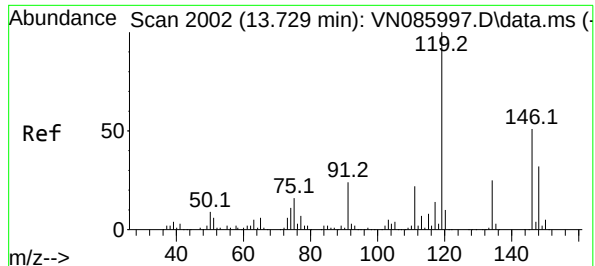
Delta R.T. -0.006 min

Lab File: VN086001.D

Acq: 18 Mar 2025 14:09

Tgt Ion:	119	Resp:	3477
Ion Ratio	Lower	Upper	
119	100		
134	27.7	12.6	37.8
91	20.2	12.3	36.8





#87

1,3-Dichlorobenzene

Concen: 0.984 ug/l

RT: 13.735 min Scan# 2002

Delta R.T. 0.006 min

Lab File: VN086001.D

Acq: 18 Mar 2025 14:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

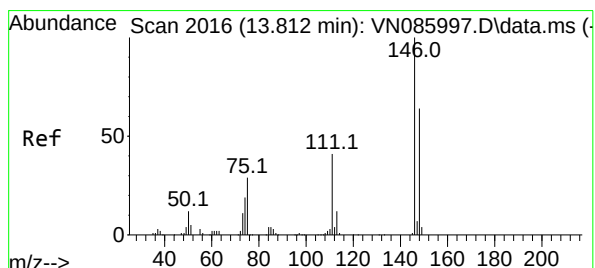
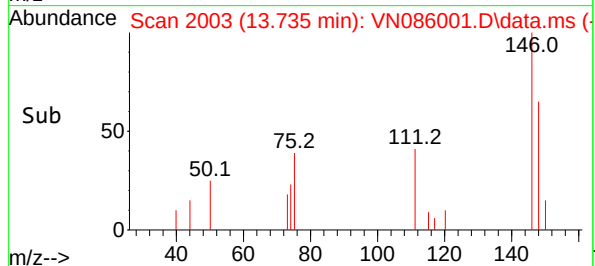
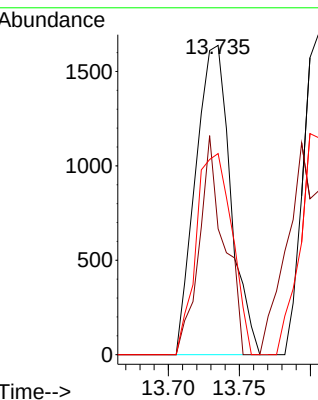
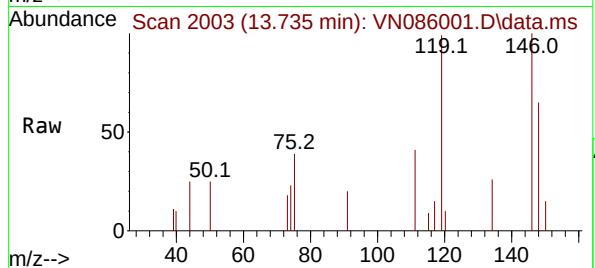
Tgt Ion:146	Resp:	281
Ion Ratio	Lower	Upper
146	100	
111	50.4	21.2 63.6
148	66.9	31.8 95.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#88

1,4-Dichlorobenzene

Concen: 1.133 ug/l m

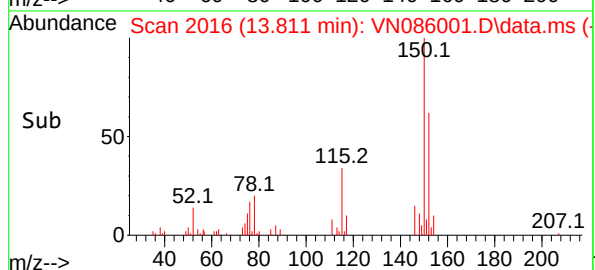
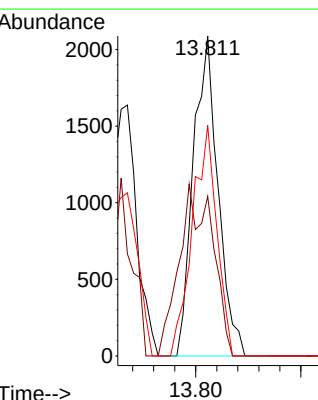
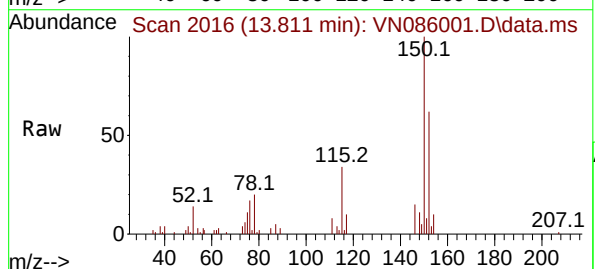
RT: 13.811 min Scan# 2016

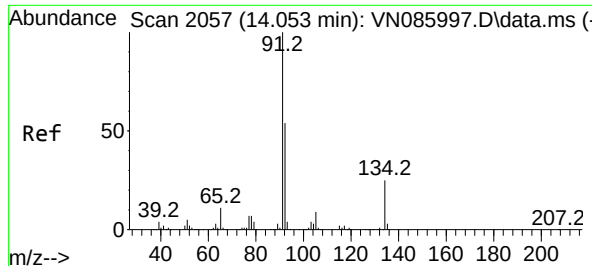
Delta R.T. -0.000 min

Lab File: VN086001.D

Acq: 18 Mar 2025 14:09

Tgt Ion:146	Resp:	3403
Ion Ratio	Lower	Upper
146	100	
111	41.7	20.4 61.3
148	55.3	32.1 96.5





#89

n-Butylbenzene

Concen: 0.846 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.000 min

Lab File: VN086001.D

Acq: 18 Mar 2025 14:09

Instrument :

MSVOA_N

ClientSampleId :

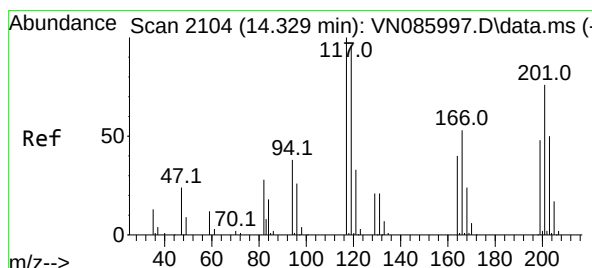
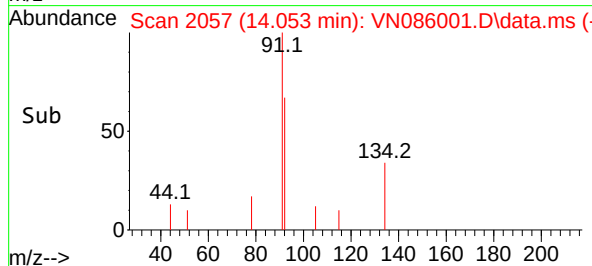
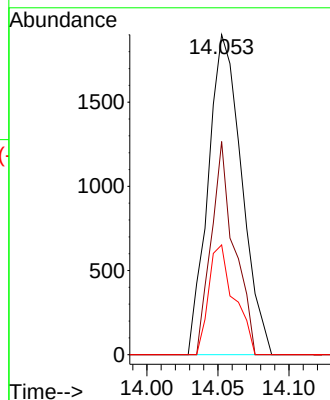
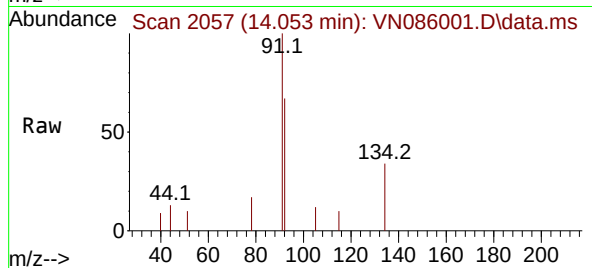
VSTDIC001

Tgt Ion:	91	Resp:	3124
Ion	Ratio	Lower	Upper
91	100		
92	46.0	26.9	80.6
134	26.3	13.0	39.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#90

Hexachloroethane

Concen: 1.220 ug/l

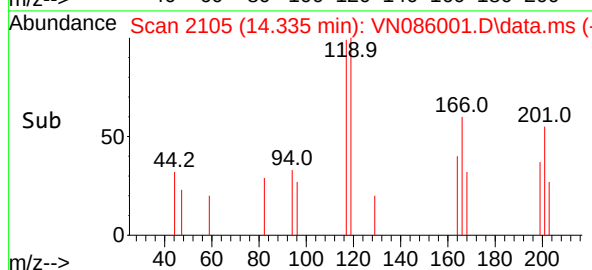
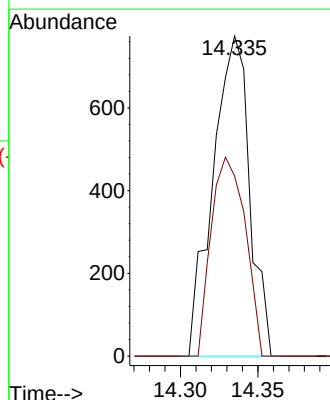
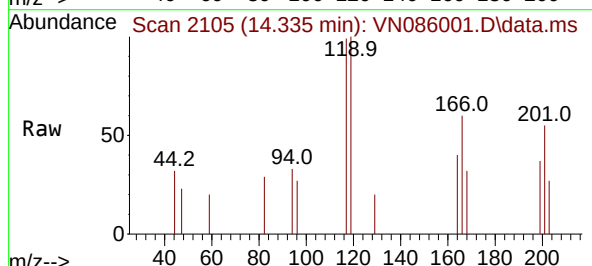
RT: 14.335 min Scan# 2105

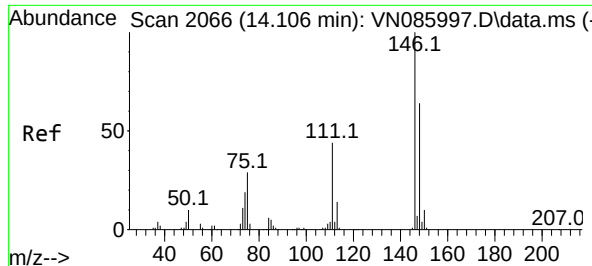
Delta R.T. 0.006 min

Lab File: VN086001.D

Acq: 18 Mar 2025 14:09

Tgt Ion:	117	Resp:	1276
Ion	Ratio	Lower	Upper
117	100		
201	57.6	39.1	117.3





#91

1,2-Dichlorobenzene

Concen: 1.174 ug/l

RT: 14.100 min Scan# 2066

Delta R.T. -0.006 min

Lab File: VN086001.D

Acq: 18 Mar 2025 14:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion:146 Resp: 333

Ion Ratio Lower Upper

146 100

111 43.8 22.3 66.8

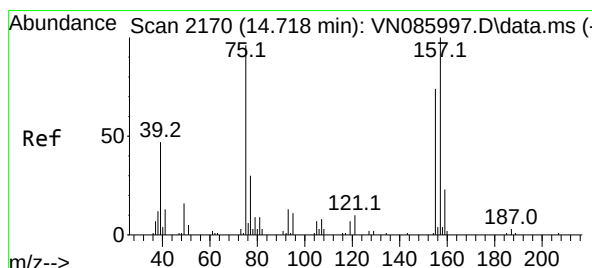
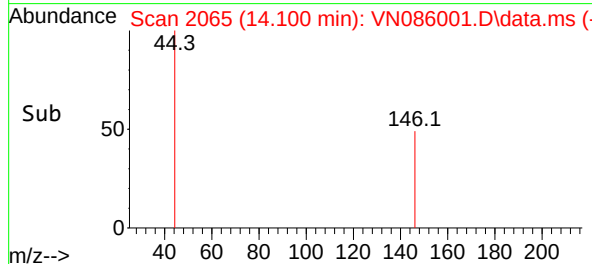
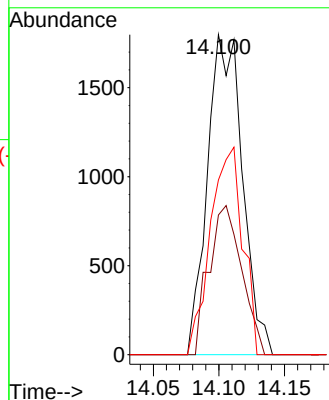
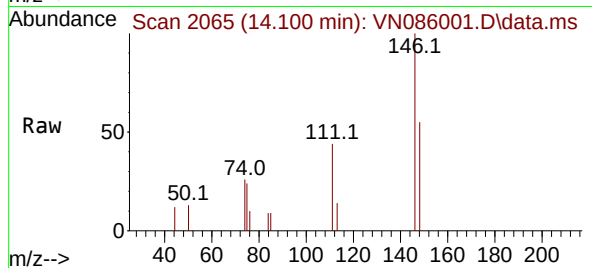
148 59.7 32.1 96.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.831 ug/l

RT: 14.723 min Scan# 2171

Delta R.T. 0.006 min

Lab File: VN086001.D

Acq: 18 Mar 2025 14:09

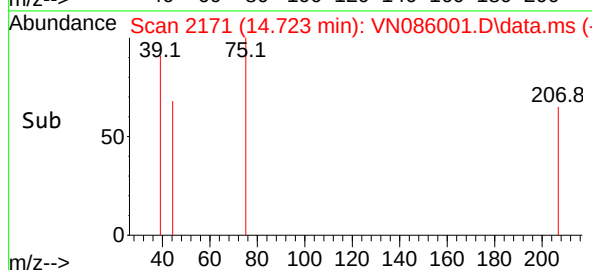
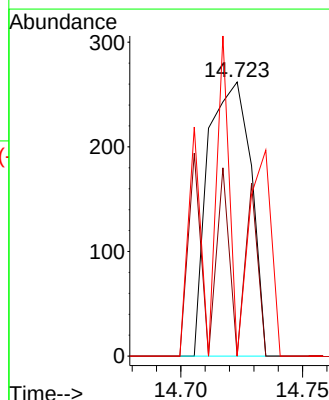
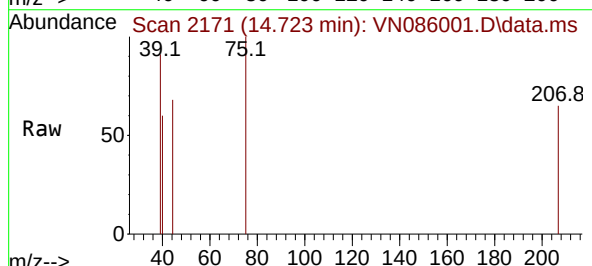
Tgt Ion: 75 Resp: 319

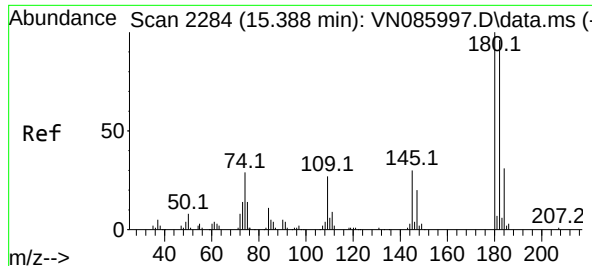
Ion Ratio Lower Upper

75 100

155 0.0 41.0 123.0#

157 33.9 53.7 161.1#





#93

1,2,4-Trichlorobenzene

Concen: 1.048 ug/l

RT: 15.388 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN086001.D

Acq: 18 Mar 2025 14:09

Instrument :

MSVOA_N

ClientSampleId :

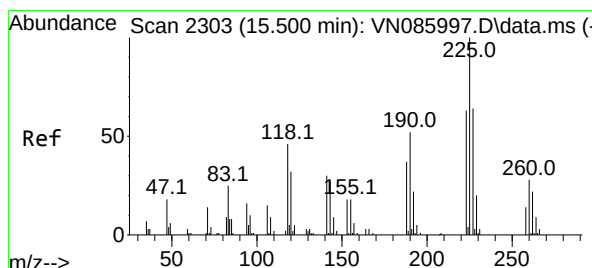
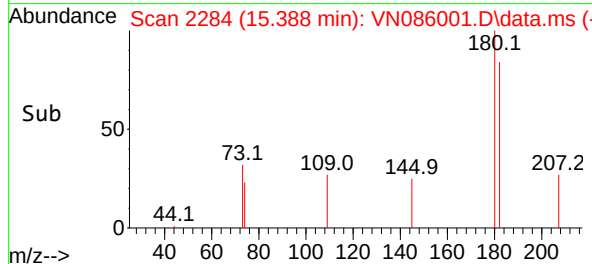
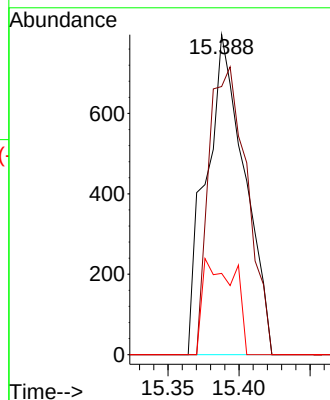
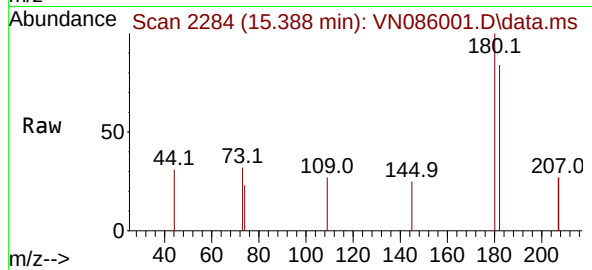
VSTDIC001

Tgt Ion:	180	Resp:	149
Ion Ratio	Lower	Upper	
180	100		
182	89.6	47.0	141.0
145	24.4	15.5	46.5

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#94

Hexachlorobutadiene

Concen: 1.164 ug/l

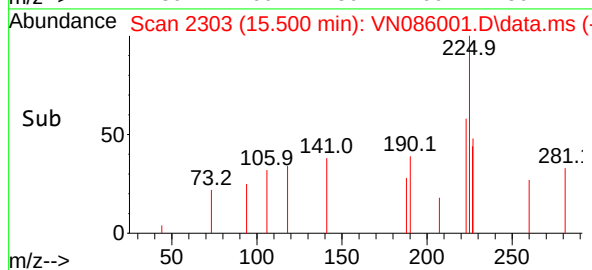
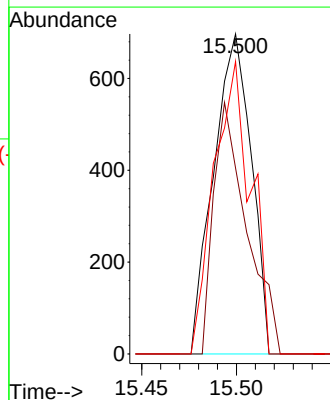
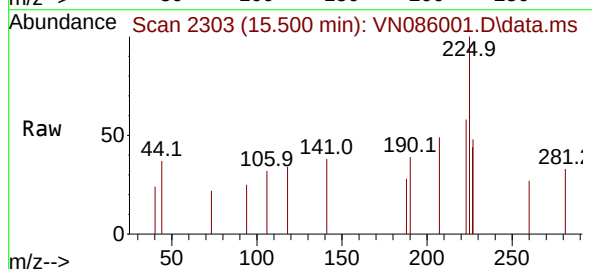
RT: 15.500 min Scan# 2303

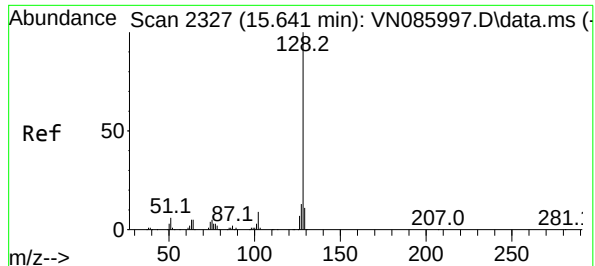
Delta R.T. -0.000 min

Lab File: VN086001.D

Acq: 18 Mar 2025 14:09

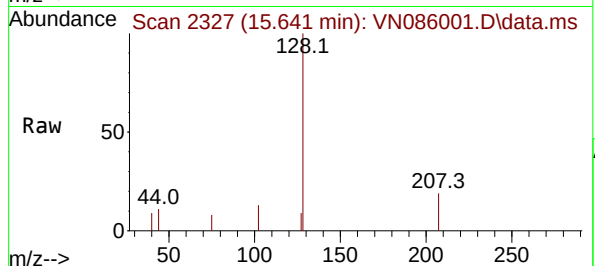
Tgt Ion:	225	Resp:	965
Ion Ratio	Lower	Upper	
225	100		
223	69.1	31.3	93.9
227	88.8	32.1	96.3





#95
Naphthalene
Concen: 1.006 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. -0.000 min
Lab File: VN086001.D
Acq: 18 Mar 2025 14:09

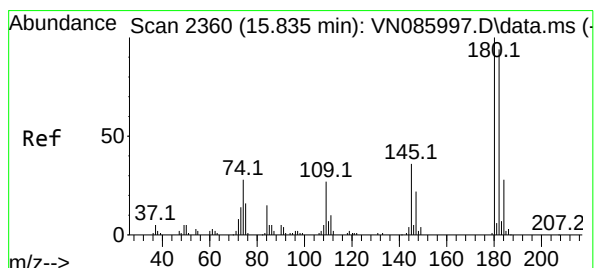
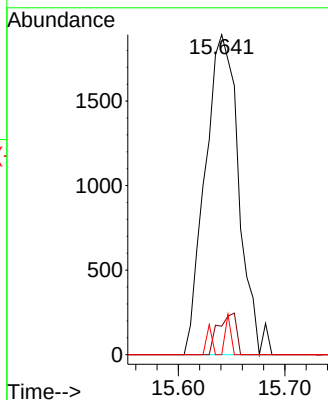
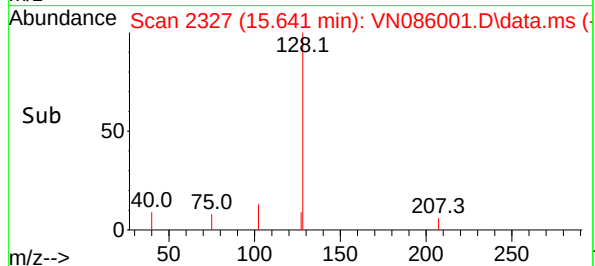
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001



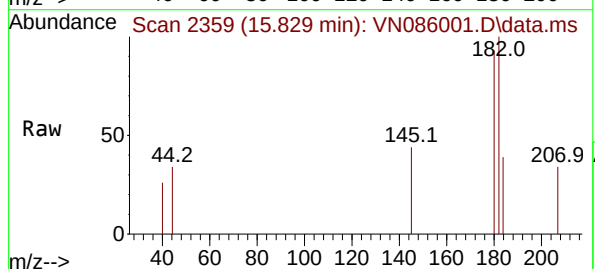
Tgt Ion:128 Resp: 4162
Ion Ratio Lower Upper
128 100
127 6.9 10.2 15.4
129 2.0 9.0 13.6

Manual Integrations
APPROVED

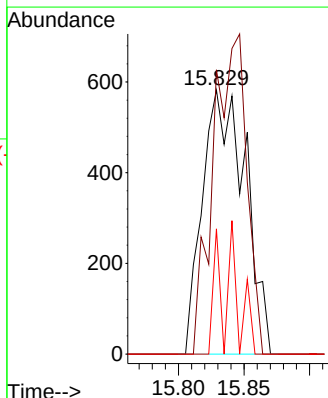
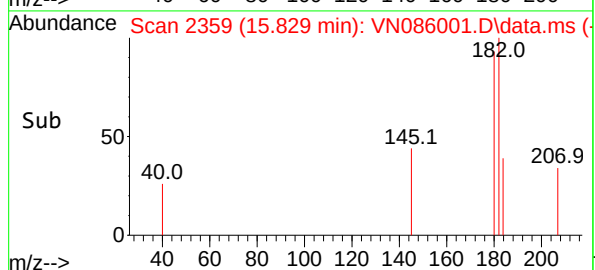
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#96
1,2,3-Trichlorobenzene
Concen: 0.980 ug/l
RT: 15.829 min Scan# 2359
Delta R.T. -0.006 min
Lab File: VN086001.D
Acq: 18 Mar 2025 14:09



Tgt Ion:180 Resp: 1329
Ion Ratio Lower Upper
180 100
182 94.1 47.5 142.5
145 7.3 17.7 53.1



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031825\
 Data File : VN086003.D
 Acq On : 18 Mar 2025 16:49
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN031825

Quant Time: Mar 19 03:39:56 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 19 03:20:56 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

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

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

Internal Standards						
1) Pentafluorobenzene	8.218	168	185181	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	294426	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.859	117	272136	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	140427	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.577	65	125581	49.524	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	99.040%
35) Dibromofluoromethane	8.165	113	100012	48.666	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	97.340%
50) Toluene-d8	10.565	98	385868	51.736	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	103.480%
62) 4-Bromofluorobenzene	12.847	95	141589	53.231	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	106.460%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.124	85	137956	56.232	ug/l	99
3) Chloromethane	2.359	50	112934	52.508	ug/l	99
4) Vinyl Chloride	2.512	62	123086	55.971	ug/l	98
5) Bromomethane	2.948	94	77255	51.574	ug/l	97
6) Chloroethane	3.112	64	70967	51.154	ug/l	90
7) Trichlorofluoromethane	3.495	101	209962	53.112	ug/l	97
8) Diethyl Ether	3.953	74	68372	56.496	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.365	101	111303	52.975	ug/l	100
10) Methyl Iodide	4.583	142	155175	56.682	ug/l	94
11) Tert butyl alcohol	5.512	59	85582	238.378	ug/l	99
12) 1,1-Dichloroethene	4.336	96	108747	57.321	ug/l	97
13) Acrolein	4.177	56	104529	272.978	ug/l	100
14) Allyl chloride	5.012	41	133855	56.555	ug/l	98
15) Acrylonitrile	5.712	53	246595	260.076	ug/l	98
16) Acetone	4.418	43	183647	237.056	ug/l	98
17) Carbon Disulfide	4.712	76	317235	50.845	ug/l	98
18) Methyl Acetate	5.012	43	95164	49.649	ug/l	100
19) Methyl tert-butyl Ether	5.789	73	363920	58.538	ug/l	97
20) Methylene Chloride	5.271	84	121113	53.440	ug/l	94
21) trans-1,2-Dichloroethene	5.783	96	115247	55.586	ug/l	97
22) Diisopropyl ether	6.665	45	300680	59.615	ug/l	97
23) Vinyl Acetate	6.600	43	1129550	295.428	ug/l	100
24) 1,1-Dichloroethane	6.565	63	203556	54.884	ug/l	99
25) 2-Butanone	7.477	43	283608	253.710	ug/l	99
26) 2,2-Dichloropropane	7.483	77	198771	55.667	ug/l	100
27) cis-1,2-Dichloroethene	7.483	96	134668	57.158	ug/l	98
28) Bromochloromethane	7.812	49	68612	43.664	ug/l	98
29) Tetrahydrofuran	7.836	42	185823	269.263	ug/l	99
30) Chloroform	7.959	83	222991	54.394	ug/l	99
31) Cyclohexane	8.253	56	172895	54.721	ug/l	97
32) 1,1,1-Trichloroethane	8.165	97	215524	55.539	ug/l	98
36) 1,1-Dichloropropene	8.371	75	155704	57.540	ug/l	100
37) Ethyl Acetate	7.559	43	115871	50.756	ug/l	97
38) Carbon Tetrachloride	8.359	117	201085	56.517	ug/l	95
39) Methylcyclohexane	9.600	83	163279	60.818	ug/l	98
40) Benzene	8.600	78	483089	56.869	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031825\
 Data File : VN086003.D
 Acq On : 18 Mar 2025 16:49
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN031825

Quant Time: Mar 19 03:39:56 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 19 03:20:56 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

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

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	63723	58.457	ug/l	94
42) 1,2-Dichloroethane	8.665	62	162271	54.822	ug/l	100
43) Isopropyl Acetate	8.683	43	203943	41.226	ug/l	99
44) Trichloroethene	9.347	130	117248	53.255	ug/l	96
45) 1,2-Dichloropropane	9.618	63	111560	57.740	ug/l	97
46) Dibromomethane	9.706	93	85108	56.012	ug/l	98
47) Bromodichloromethane	9.882	83	177051	55.753	ug/l	95
48) Methyl methacrylate	9.677	41	94275	57.751	ug/l	98
49) 1,4-Dioxane	9.688	88	40821	1057.815	ug/l	97
51) 4-Methyl-2-Pentanone	10.441	43	607531	278.467	ug/l	99
52) Toluene	10.629	92	314632	60.348	ug/l	100
53) t-1,3-Dichloropropene	10.829	75	184084	59.689	ug/l	99
54) cis-1,3-Dichloropropene	10.306	75	194976	59.921	ug/l	99
55) 1,1,2-Trichloroethane	11.012	97	111563	56.064	ug/l	97
56) Ethyl methacrylate	10.871	69	174971	55.208	ug/l	99
57) 1,3-Dichloropropane	11.159	76	194964	57.684	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.153	63	382073	306.978	ug/l	99
59) 2-Hexanone	11.194	43	448560	282.228	ug/l	98
60) Dibromochloromethane	11.353	129	147588	57.477	ug/l	98
61) 1,2-Dibromoethane	11.465	107	117559	57.545	ug/l	99
64) Tetrachloroethene	11.100	164	114717	52.844	ug/l	97
65) Chlorobenzene	11.888	112	334921	53.783	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.959	131	126196	54.515	ug/l	98
67) Ethyl Benzene	11.959	91	593609	59.592	ug/l	99
68) m/p-Xylenes	12.065	106	472258	120.622	ug/l	99
69) o-Xylene	12.394	106	223040	62.069	ug/l	100
70) Styrene	12.406	104	378434	61.658	ug/l	99
71) Bromoform	12.576	173	103943	53.714	ug/l #	99
73) Isopropylbenzene	12.694	105	562565	58.664	ug/l	100
74) N-amyl acetate	12.488	43	182359	56.839	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.935	83	160871	49.586	ug/l	99
76) 1,2,3-Trichloropropane	12.988	75	153873m	48.944	ug/l	
77) Bromobenzene	12.976	156	142234	53.193	ug/l	98
78) n-propylbenzene	13.035	91	660295	60.807	ug/l	100
79) 2-Chlorotoluene	13.123	91	414442	57.461	ug/l	99
80) 1,3,5-Trimethylbenzene	13.171	105	491547	60.712	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.735	75	68481	57.589	ug/l	93
82) 4-Chlorotoluene	13.218	91	422016	56.898	ug/l	99
83) tert-Butylbenzene	13.435	119	405831	58.608	ug/l	97
84) 1,2,4-Trimethylbenzene	13.476	105	503636	61.674	ug/l	99
85) sec-Butylbenzene	13.612	105	567954	62.874	ug/l	99
86) p-Isopropyltoluene	13.723	119	488020	63.821	ug/l	100
87) 1,3-Dichlorobenzene	13.729	146	267129	55.423	ug/l	100
88) 1,4-Dichlorobenzene	13.806	146	262223	51.782	ug/l	99
89) n-Butylbenzene	14.053	91	393994	63.272	ug/l	99
90) Hexachloroethane	14.329	117	93033	52.727	ug/l	99
91) 1,2-Dichlorobenzene	14.100	146	254035	53.019	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	33218	51.293	ug/l	94
93) 1,2,4-Trichlorobenzene	15.388	180	131782	54.700	ug/l	98
94) Hexachlorobutadiene	15.494	225	70418	50.380	ug/l	99
95) Naphthalene	15.635	128	378782	54.297	ug/l	99
96) 1,2,3-Trichlorobenzene	15.835	180	127760	55.887	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031825\
Data File : VN086003.D
Acq On : 18 Mar 2025 16:49
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN031825

Manual Integrations
APPROVED

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

Quant Time: Mar 19 03:39:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 19 03:20:56 2025
Response via : Initial Calibration

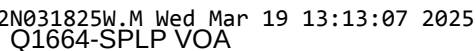
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

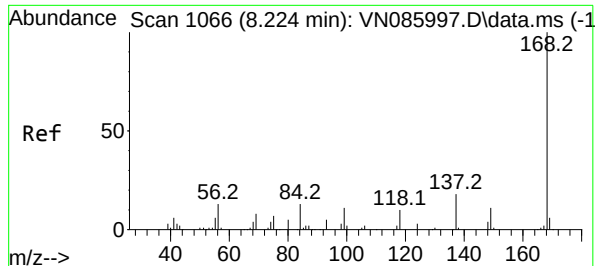
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_N
ClientSampleId :
ICVVN031825

Manual Integrations

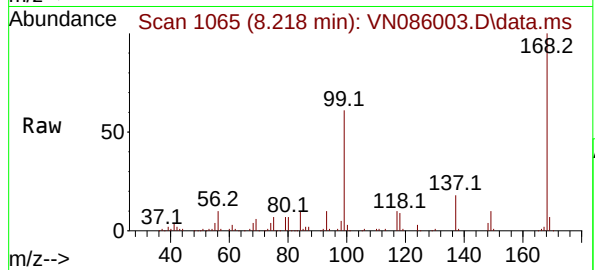
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.006 min
Lab File: VN086003.D
Acq: 18 Mar 2025 16:49

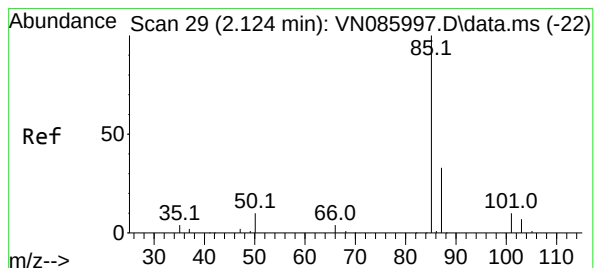
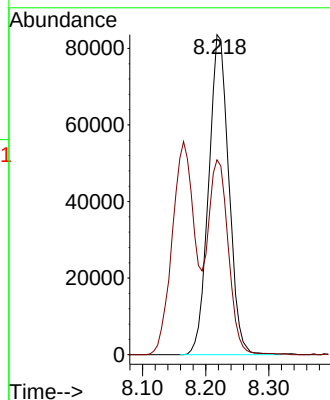
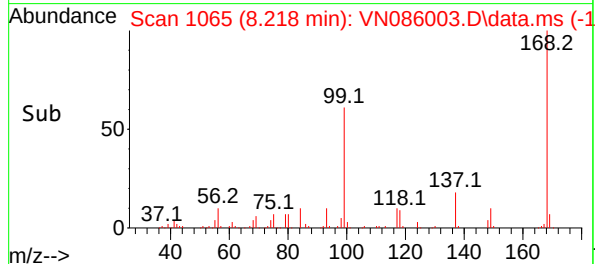
Instrument :
MSVOA_N
Client Sample Id :
ICV031825



Tgt Ion: 168 Resp: 18518
Ion Ratio Lower Upper
168 100
99 60.7 49.4 74.2

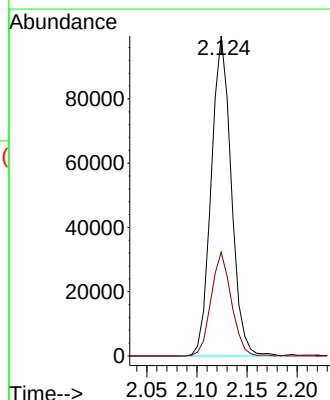
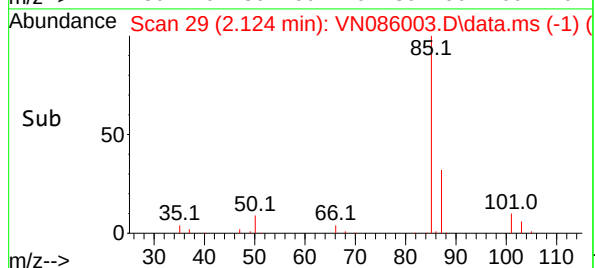
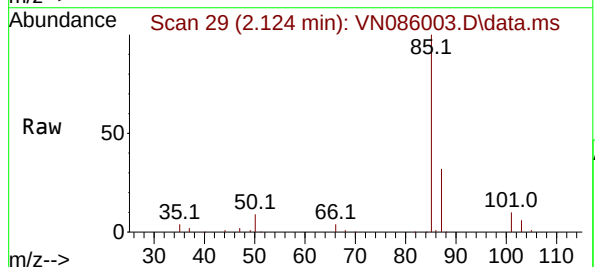
Manual Integrations
APPROVED

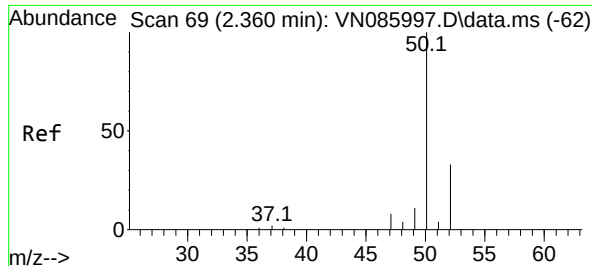
Reviewed By : John Carlone 03/19/2025
Supervised By : Mahesh Dadoda 03/19/2025



#2
Dichlorodifluoromethane
Concen: 56.232 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN086003.D
Acq: 18 Mar 2025 16:49

Tgt Ion: 85 Resp: 137956
Ion Ratio Lower Upper
85 100
87 32.4 16.5 49.5





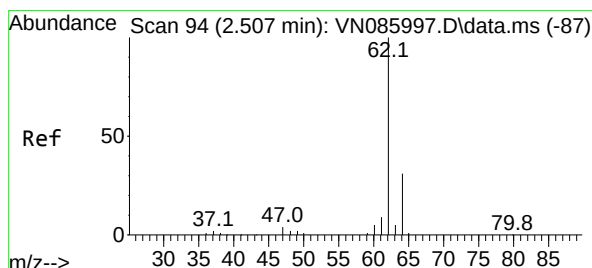
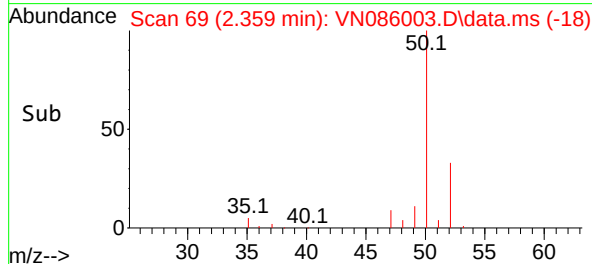
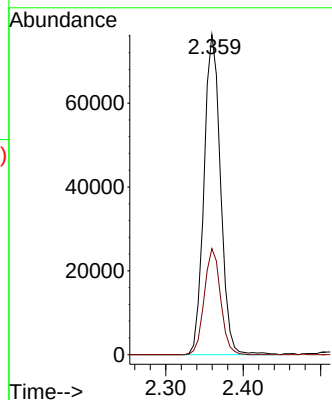
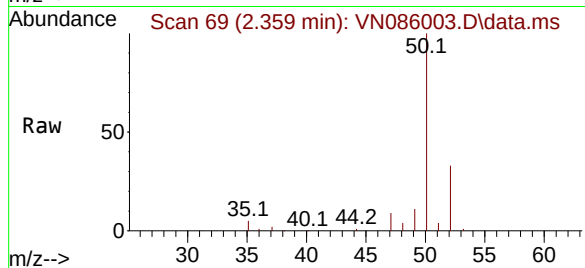
#3
Chloromethane
Concen: 52.508 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN086003.D
Acq: 18 Mar 2025 16:49

Instrument :
MSVOA_N
ClientSampleId :
ICVVN031825

Tgt Ion: 50 Resp: 112934
Ion Ratio Lower Upper
50 100
52 33.2 26.0 39.0

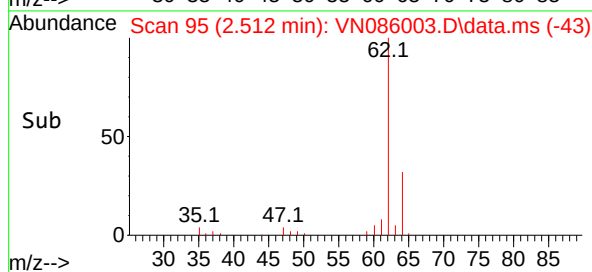
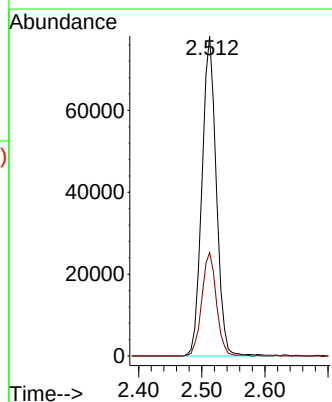
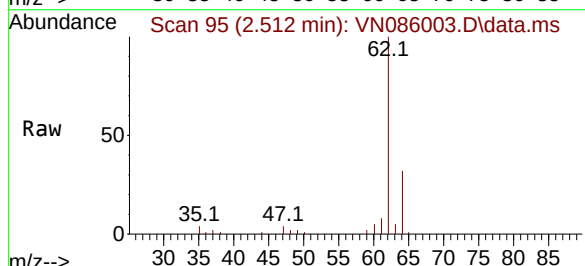
Manual Integrations
APPROVED

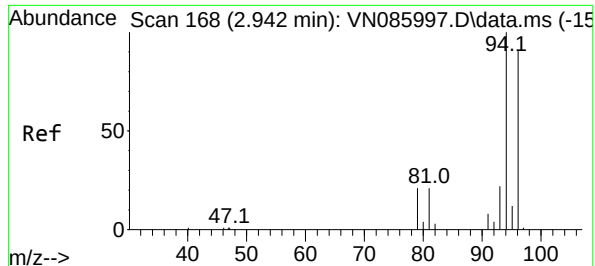
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#4
Vinyl Chloride
Concen: 55.971 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.006 min
Lab File: VN086003.D
Acq: 18 Mar 2025 16:49

Tgt Ion: 62 Resp: 123086
Ion Ratio Lower Upper
62 100
64 32.3 25.2 37.8





#5

Bromomethane

Concen: 51.574 ug/l

RT: 2.948 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN086003.D

Acq: 18 Mar 2025 16:49

Instrument :

MSVOA_N

ClientSampleId :

ICVNVN031825

Tgt Ion: 94 Resp: 7725

Ion Ratio Lower Upper

94 100

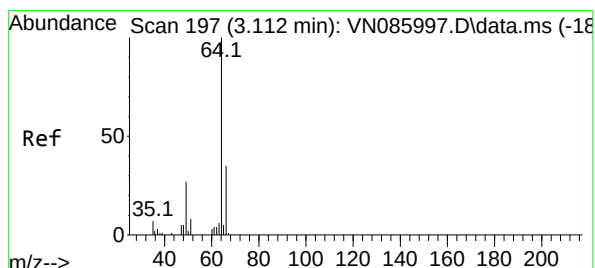
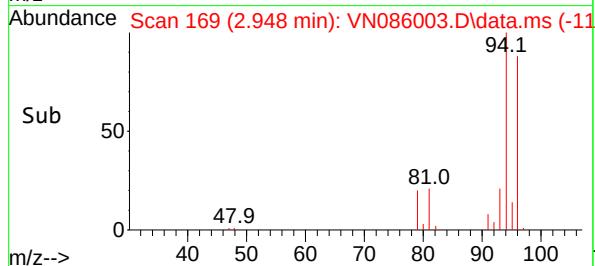
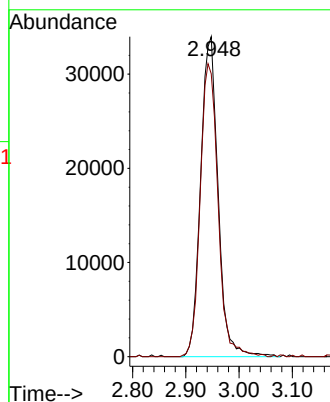
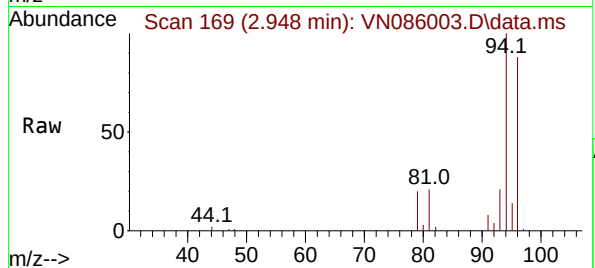
96 88.4 72.8 109.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#6

Chloroethane

Concen: 51.154 ug/l

RT: 3.112 min Scan# 197

Delta R.T. -0.000 min

Lab File: VN086003.D

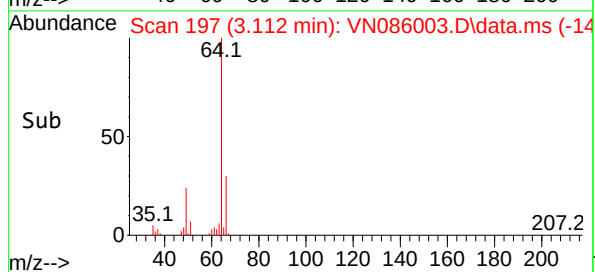
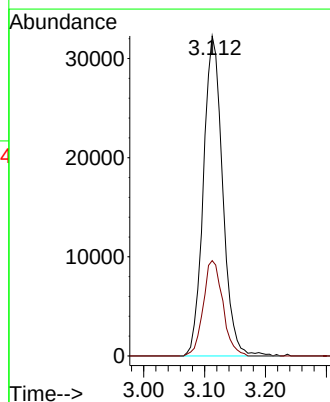
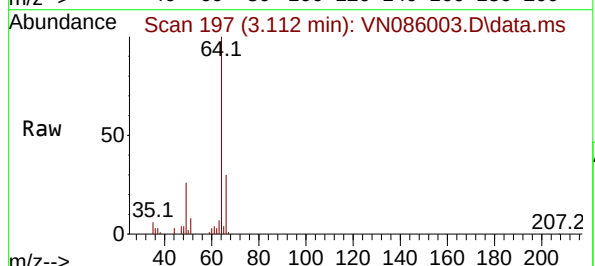
Acq: 18 Mar 2025 16:49

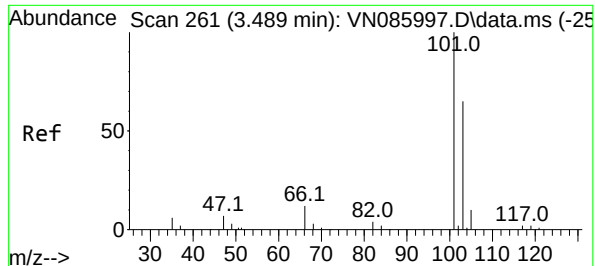
Tgt Ion: 64 Resp: 70967

Ion Ratio Lower Upper

64 100

66 29.8 28.3 42.5





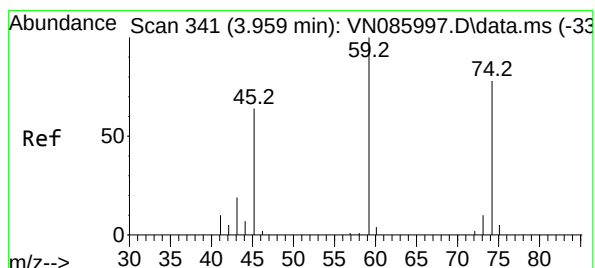
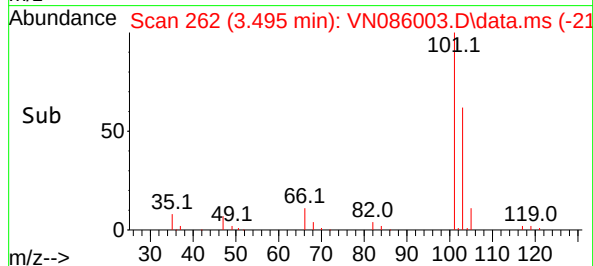
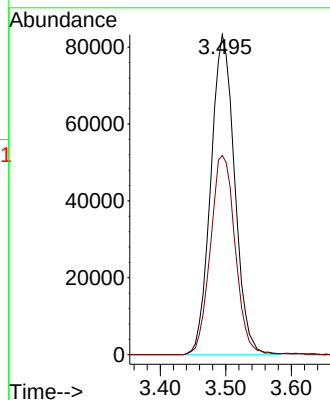
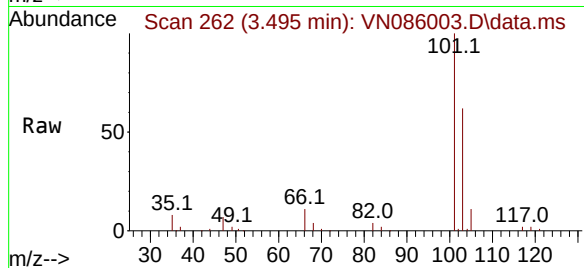
#7
Trichlorofluoromethane
Concen: 53.112 ug/l
RT: 3.495 min Scan# 20996
Delta R.T. 0.006 min
Lab File: VN086003.D
Acq: 18 Mar 2025 16:49

Instrument :
MSVOA_N
ClientSampleId :
ICV031825

Tgt Ion:101 Resp: 20996
Ion Ratio Lower Upper
101 100
103 62.2 51.7 77.5

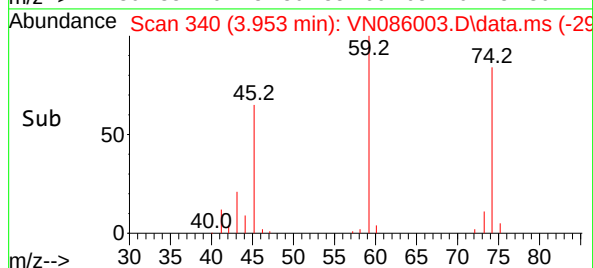
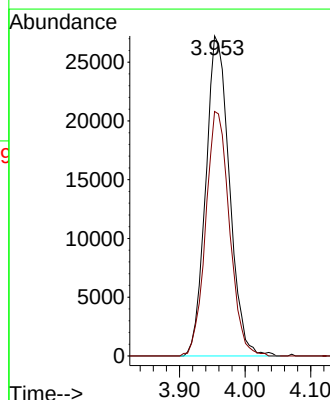
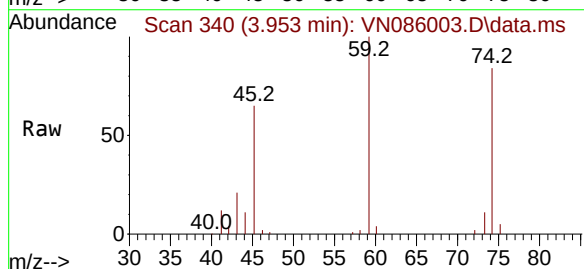
Manual Integrations
APPROVED

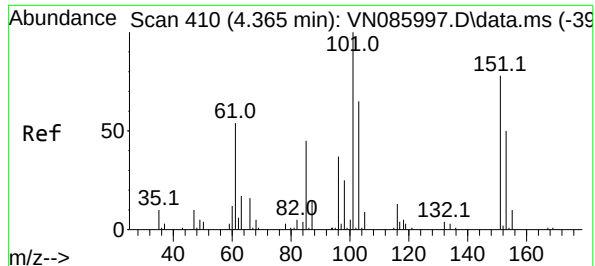
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#8
Diethyl Ether
Concen: 56.496 ug/l
RT: 3.953 min Scan# 340
Delta R.T. -0.006 min
Lab File: VN086003.D
Acq: 18 Mar 2025 16:49

Tgt Ion: 74 Resp: 68372
Ion Ratio Lower Upper
74 100
45 76.7 38.0 113.9





#9

1,1,2-Trichlorotrifluoroethane

Concen: 52.975 ug/l

RT: 4.365 min Scan# 410

Delta R.T. -0.000 min

Lab File: VN086003.D

Acq: 18 Mar 2025 16:49

Instrument :

MSVOA_N

ClientSampleId :

ICVVN031825

Tgt Ion:101 Resp: 11130

Ion Ratio Lower Upper

101 100

85 45.3 36.5 54.7

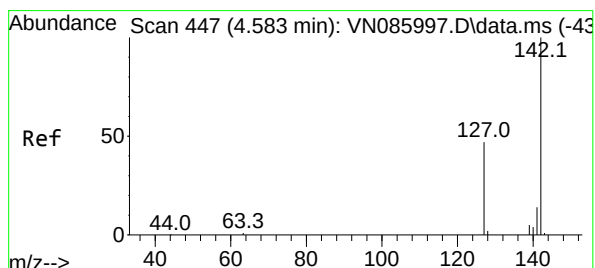
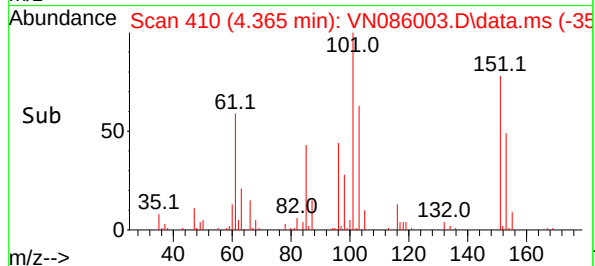
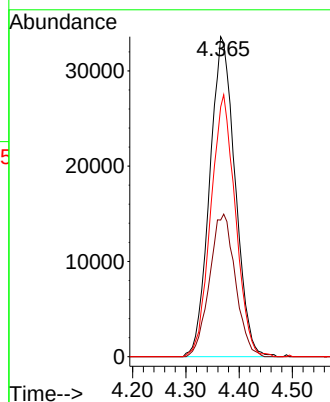
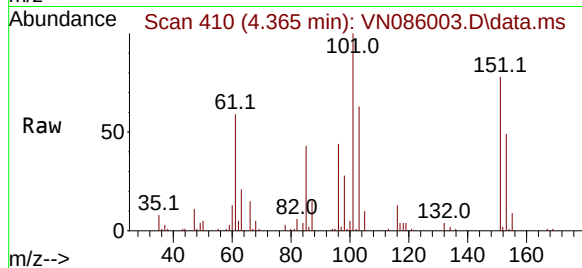
151 79.5 63.4 95.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#10

Methyl Iodide

Concen: 56.682 ug/l

RT: 4.583 min Scan# 447

Delta R.T. -0.000 min

Lab File: VN086003.D

Acq: 18 Mar 2025 16:49

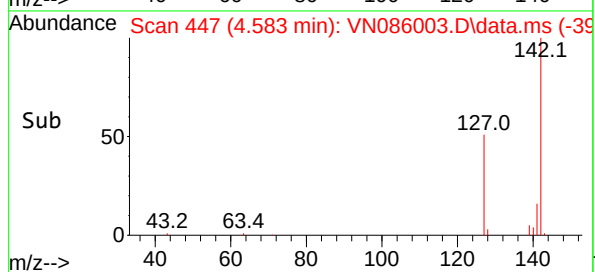
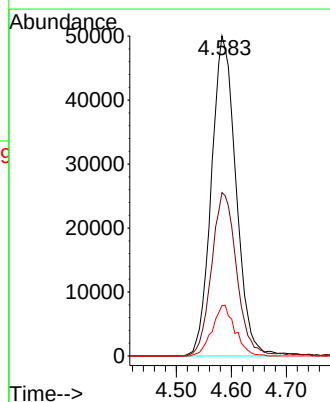
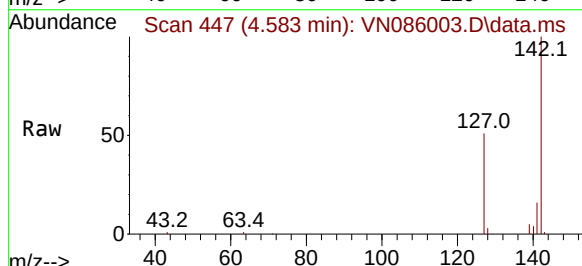
Tgt Ion:142 Resp: 155175

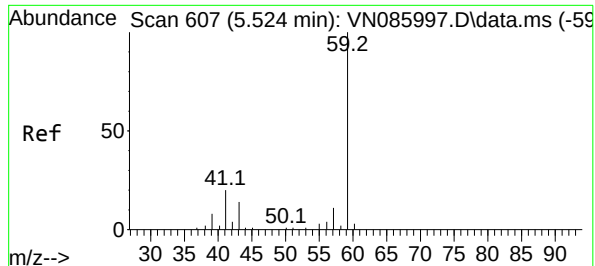
Ion Ratio Lower Upper

142 100

127 51.1 37.5 56.3

141 15.7 11.0 16.6





#11

Tert butyl alcohol

Concen: 238.378 ug/l

RT: 5.512 min Scan# 607

Delta R.T. -0.012 min

Lab File: VN086003.D

Acq: 18 Mar 2025 16:49

Instrument :

MSVOA_N

ClientSampleId :

ICV031825

Tgt Ion: 59 Resp: 8558

Ion Ratio Lower Upper

59 100

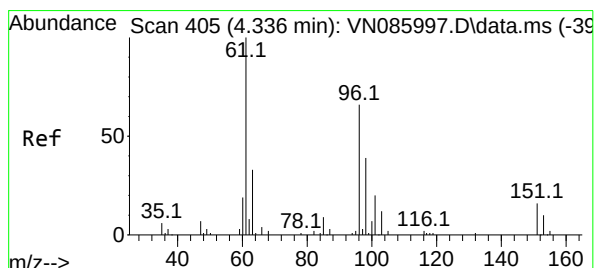
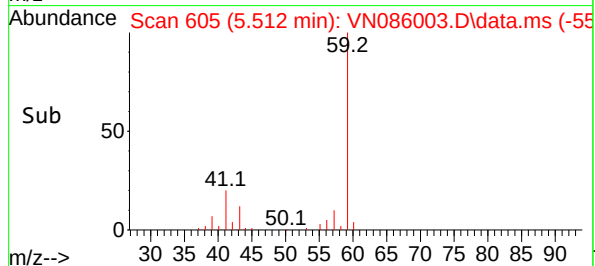
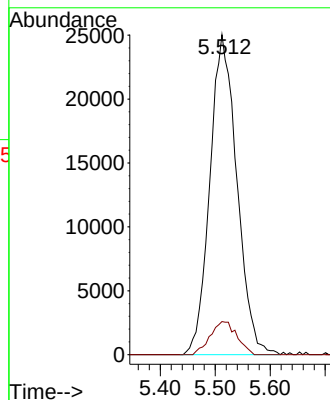
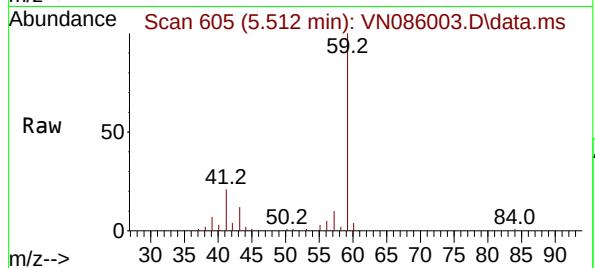
57 10.2 7.9 11.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#12

1,1-Dichloroethene

Concen: 57.321 ug/l

RT: 4.336 min Scan# 405

Delta R.T. -0.000 min

Lab File: VN086003.D

Acq: 18 Mar 2025 16:49

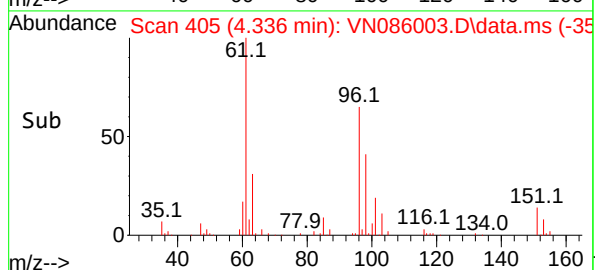
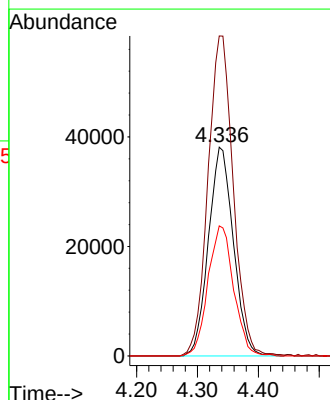
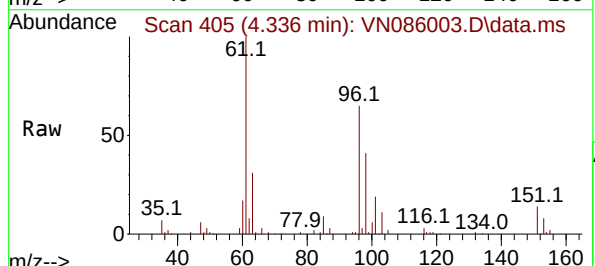
Tgt Ion: 96 Resp: 108747

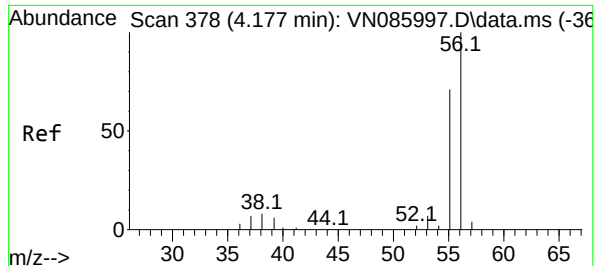
Ion Ratio Lower Upper

96 100

61 153.3 120.5 180.7

98 62.3 47.4 71.0





#13

Acrolein

Concen: 272.978 ug/l

RT: 4.177 min Scan# 31

Delta R.T. -0.000 min

Lab File: VN086003.D

Acq: 18 Mar 2025 16:49

Instrument :

MSVOA_N

ClientSampleId :

ICVNV031825

Tgt Ion: 56 Resp: 104529

Ion Ratio Lower Upper

56 100

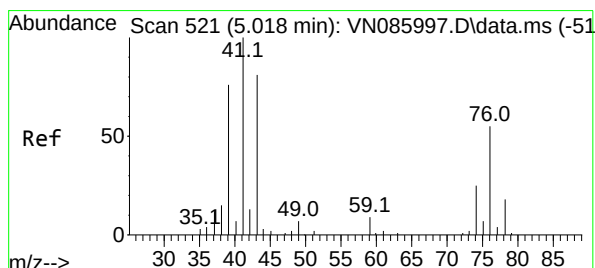
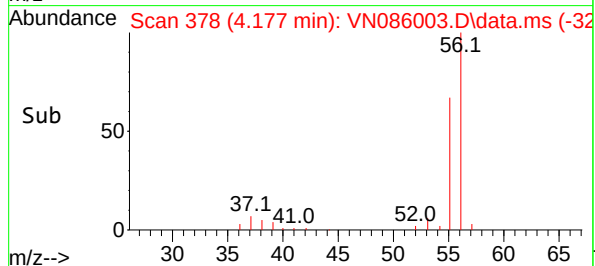
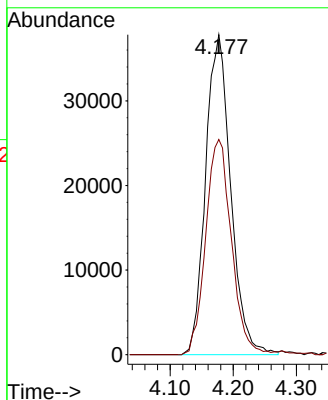
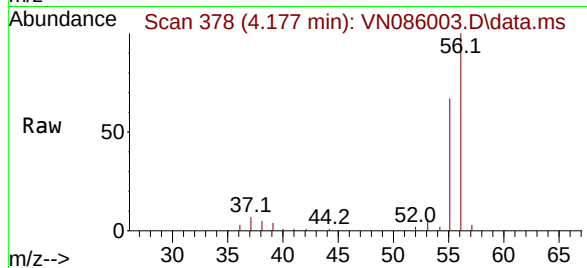
55 68.8 55.1 82.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#14

Allyl chloride

Concen: 56.555 ug/l

RT: 5.012 min Scan# 520

Delta R.T. -0.006 min

Lab File: VN086003.D

Acq: 18 Mar 2025 16:49

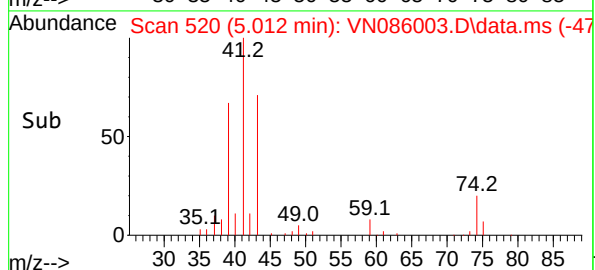
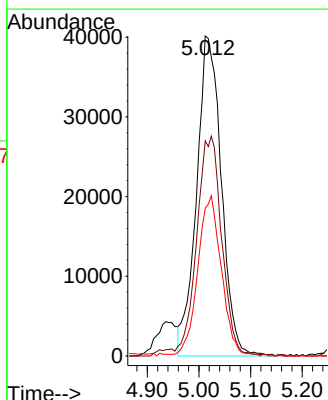
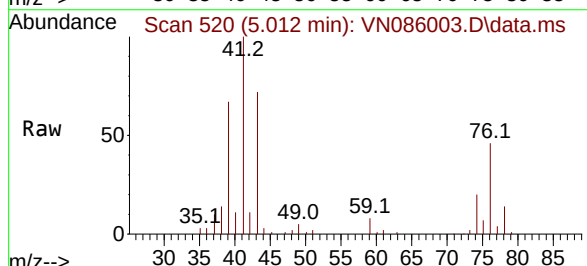
Tgt Ion: 41 Resp: 133855

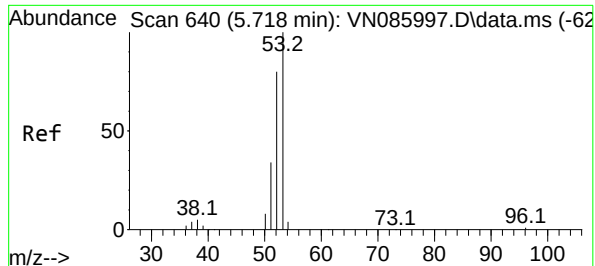
Ion Ratio Lower Upper

41 100

39 70.7 55.5 83.3

76 47.6 39.1 58.7





#15

Acrylonitrile

Concen: 260.076 ug/l

RT: 5.712 min Scan# 61

Delta R.T. -0.006 min

Lab File: VN086003.D

Acq: 18 Mar 2025 16:49

Instrument :

MSVOA_N

ClientSampleId :

ICVVN031825

Tgt Ion: 53 Resp: 24659

Ion Ratio Lower Upper

53 100

52 80.9 63.9 95.9

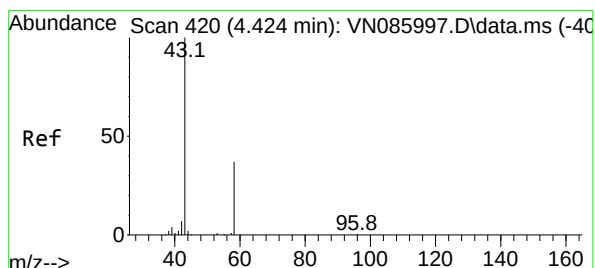
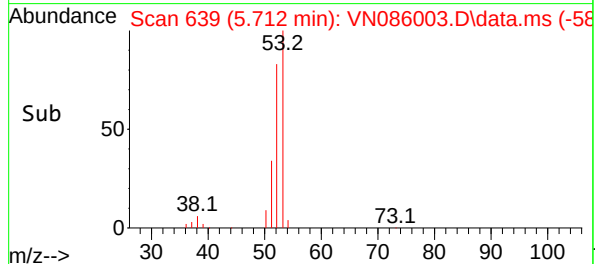
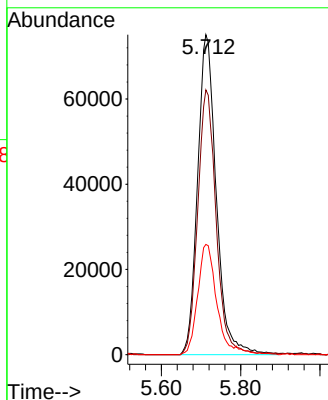
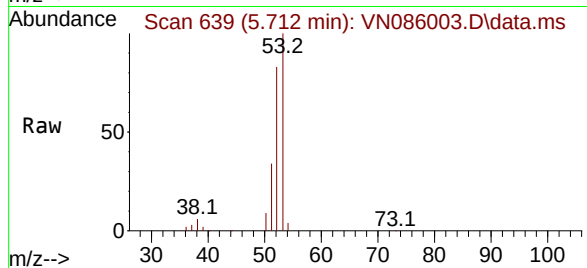
51 35.5 27.1 40.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#16

Acetone

Concen: 237.056 ug/l

RT: 4.418 min Scan# 419

Delta R.T. -0.006 min

Lab File: VN086003.D

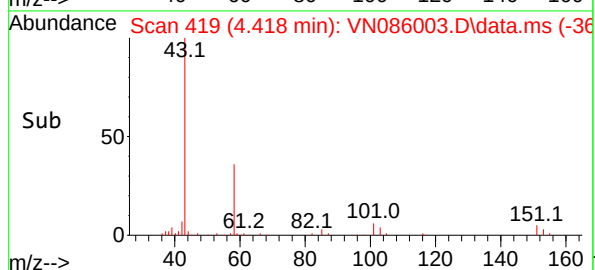
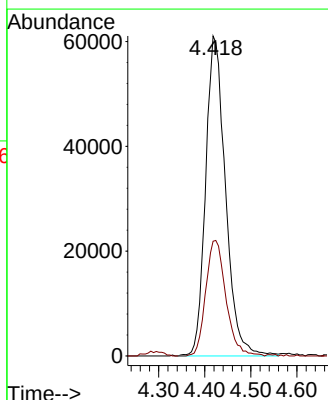
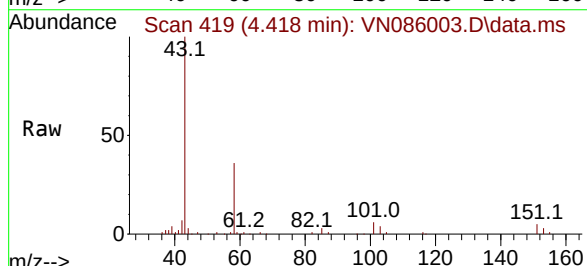
Acq: 18 Mar 2025 16:49

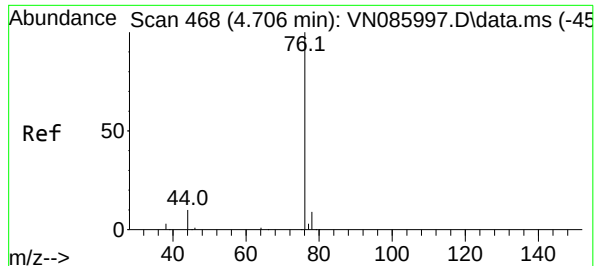
Tgt Ion: 43 Resp: 183647

Ion Ratio Lower Upper

43 100

58 35.8 29.4 44.2





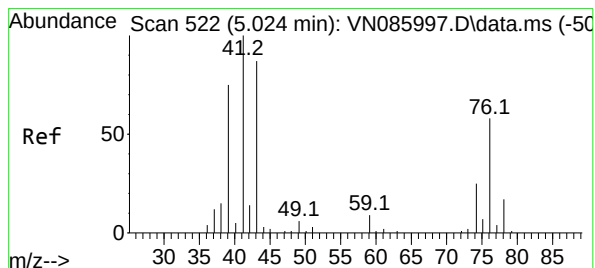
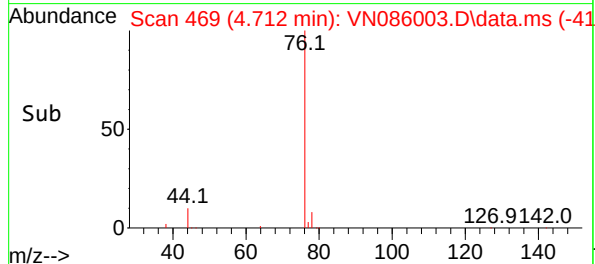
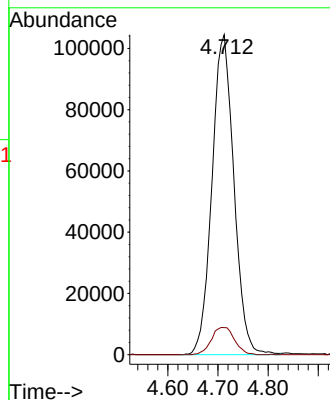
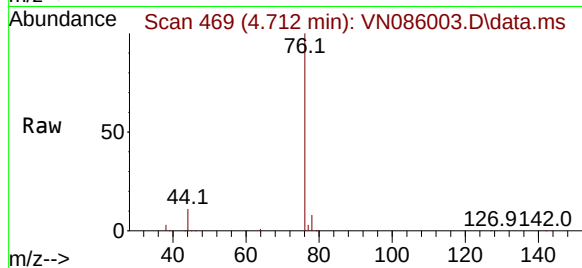
#17
Carbon Disulfide
Concen: 50.845 ug/l
RT: 4.712 min Scan# 40
Delta R.T. 0.006 min
Lab File: VN086003.D
Acq: 18 Mar 2025 16:49

Instrument :
MSVOA_N
Client Sample Id :
ICVVN031825

Tgt Ion: 76 Resp: 31723
Ion Ratio Lower Upper
76 100
78 8.4 7.4 11.2

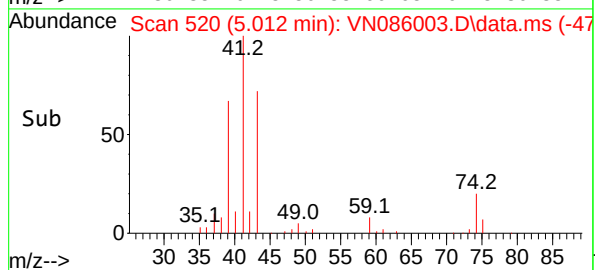
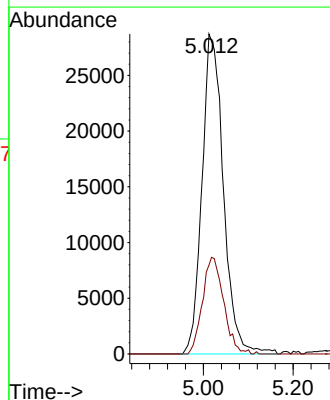
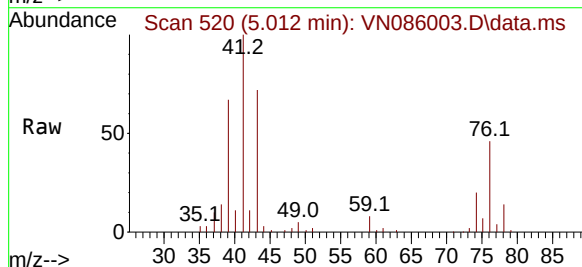
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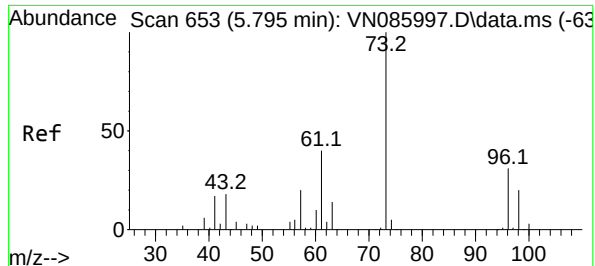
Reviewed By : John Carlone 03/19/2025
Supervised By : Mahesh Dadoda 03/19/2025



#18
Methyl Acetate
Concen: 49.649 ug/l
RT: 5.012 min Scan# 520
Delta R.T. -0.012 min
Lab File: VN086003.D
Acq: 18 Mar 2025 16:49

Tgt Ion: 43 Resp: 95164
Ion Ratio Lower Upper
43 100
74 29.7 23.9 35.9





#19

Methyl tert-butyl Ether

Concen: 58.538 ug/l

RT: 5.789 min Scan# 61

Delta R.T. -0.006 min

Lab File: VN086003.D

Acq: 18 Mar 2025 16:49

Instrument :

MSVOA_N

ClientSampleId :

ICVNV031825

Tgt Ion: 73 Resp: 363920

Ion Ratio Lower Upper

73 100

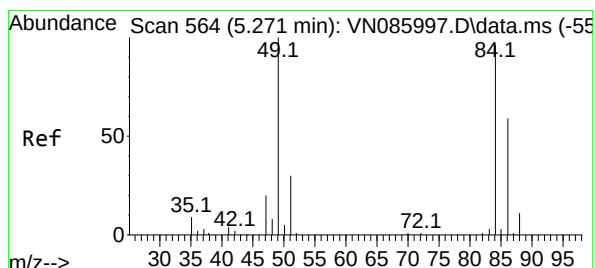
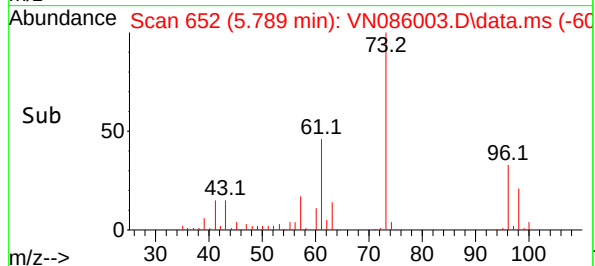
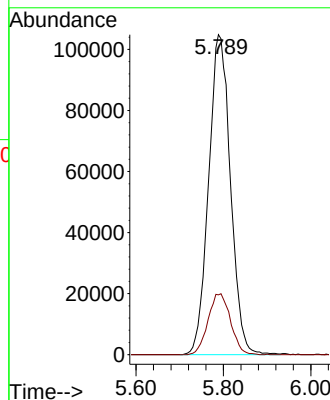
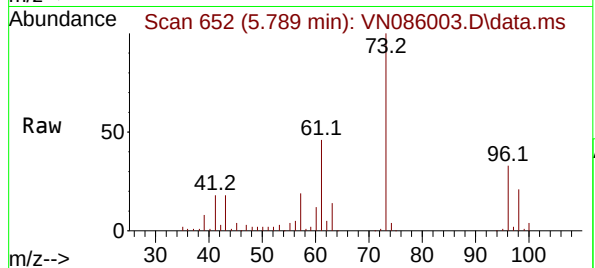
57 18.7 16.1 24.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#20

Methylene Chloride

Concen: 53.440 ug/l

RT: 5.271 min Scan# 564

Delta R.T. -0.000 min

Lab File: VN086003.D

Acq: 18 Mar 2025 16:49

Tgt Ion: 84 Resp: 121113

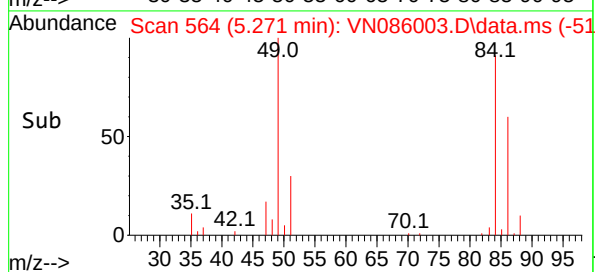
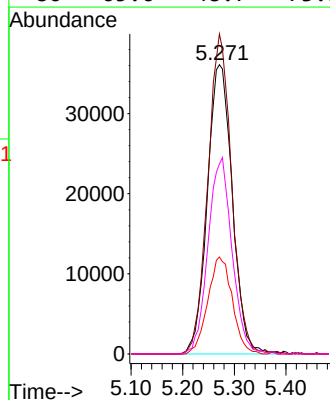
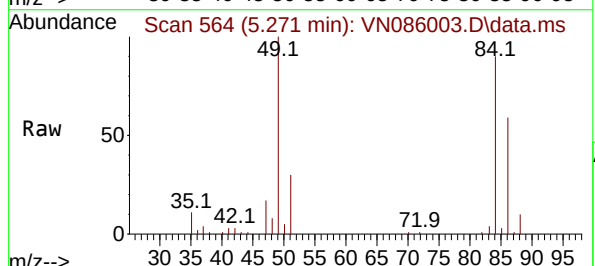
Ion Ratio Lower Upper

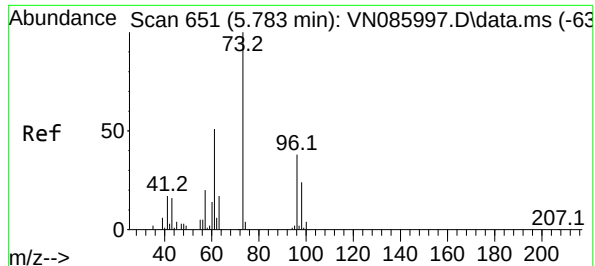
84 100

49 110.6 83.3 124.9

51 33.5 24.8 37.2

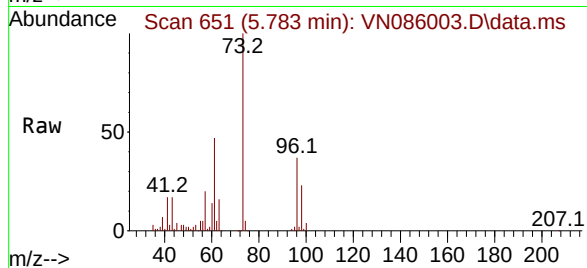
86 65.6 48.7 73.1





#21
trans-1,2-Dichloroethene
Concen: 55.586 ug/l
RT: 5.783 min Scan# 61
Delta R.T. -0.000 min
Lab File: VN086003.D
Acq: 18 Mar 2025 16:49

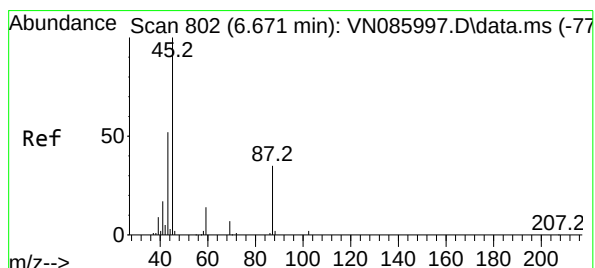
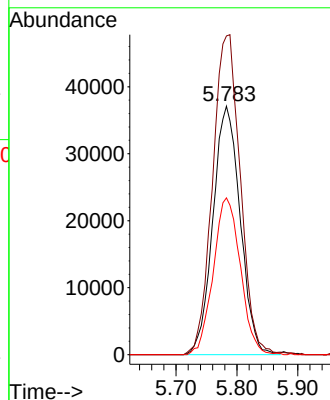
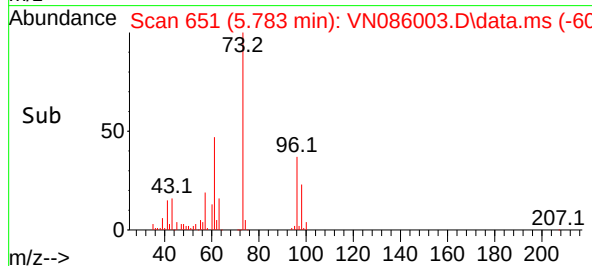
Instrument :
MSVOA_N
ClientSampleId :
ICVVN031825



Tgt Ion: 96 Resp: 11524
Ion Ratio Lower Upper
96 100
61 128.3 106.6 160.0
98 63.1 50.0 75.0

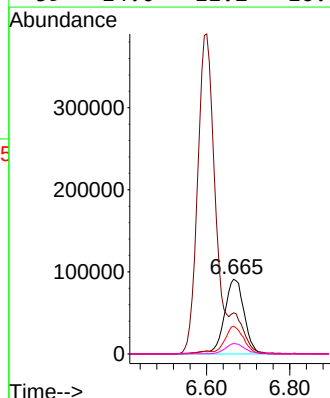
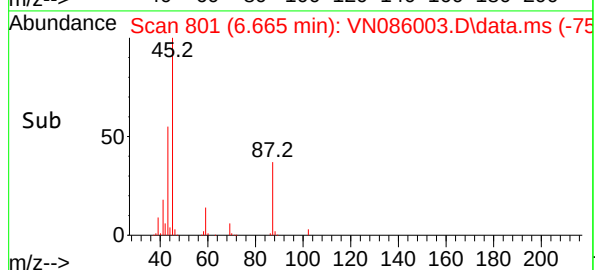
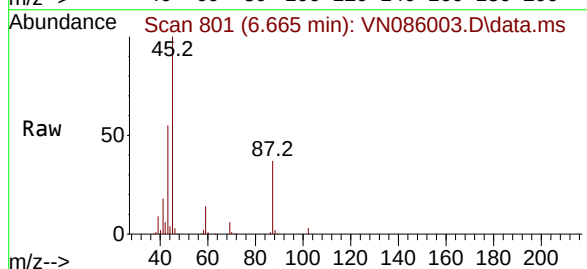
Manual Integrations
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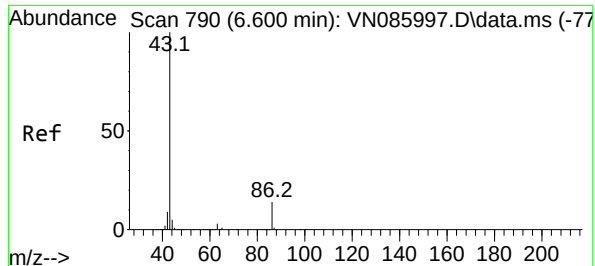
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#22
Diisopropyl ether
Concen: 59.615 ug/l
RT: 6.665 min Scan# 801
Delta R.T. -0.006 min
Lab File: VN086003.D
Acq: 18 Mar 2025 16:49

Tgt Ion: 45 Resp: 300680
Ion Ratio Lower Upper
45 100
43 54.3 41.2 61.8
87 37.0 28.5 42.7
59 14.0 11.2 16.8





#23

Vinyl Acetate

Concen: 295.428 ug/l

RT: 6.600 min Scan# 790

Delta R.T. -0.000 min

Lab File: VN086003.D

Acq: 18 Mar 2025 16:49

Instrument :

MSVOA_N

ClientSampleId :

ICVVN031825

Tgt Ion: 43 Resp: 1129550

Ion Ratio Lower Upper

43

100

86

14.0

11.2

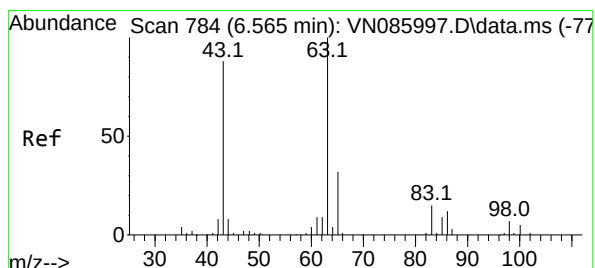
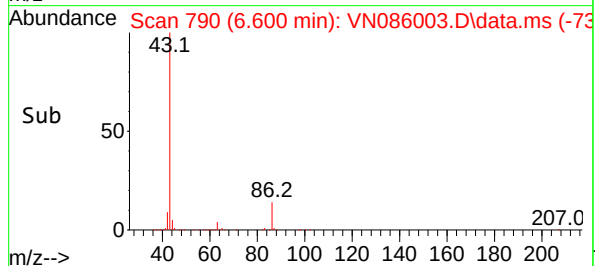
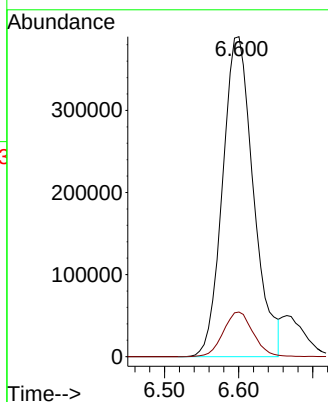
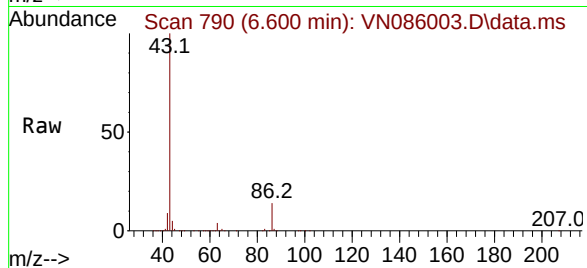
16.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#24

1,1-Dichloroethane

Concen: 54.884 ug/l

RT: 6.565 min Scan# 784

Delta R.T. -0.000 min

Lab File: VN086003.D

Acq: 18 Mar 2025 16:49

Tgt Ion: 63 Resp: 203556

Ion Ratio Lower Upper

63

100

98

7.5

3.6

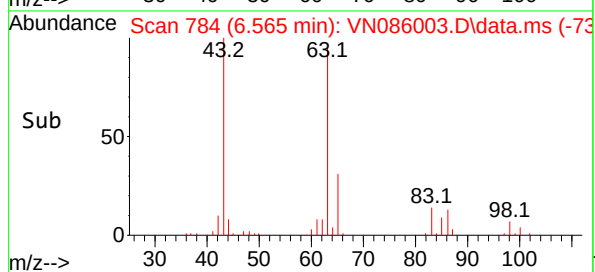
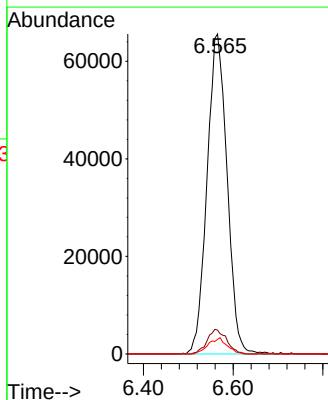
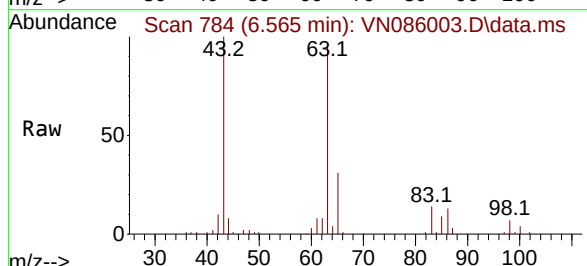
10.9

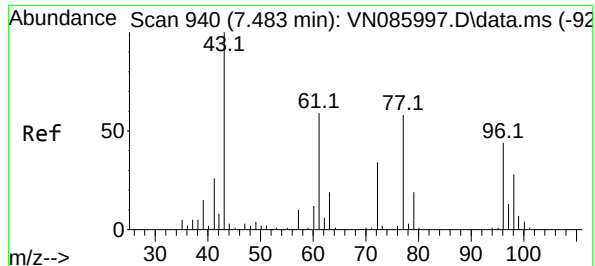
100

4.5

2.5

7.5





#25

2-Butanone

Concen: 253.710 ug/l

RT: 7.477 min Scan# 91

Delta R.T. -0.006 min

Lab File: VN086003.D

Acq: 18 Mar 2025 16:49

Instrument :

MSVOA_N

ClientSampleId :

ICV031825

Tgt Ion: 43 Resp: 283608

Ion Ratio Lower Upper

43 100

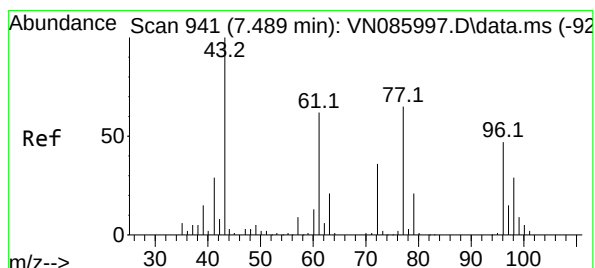
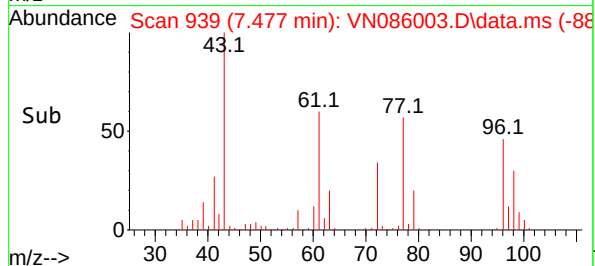
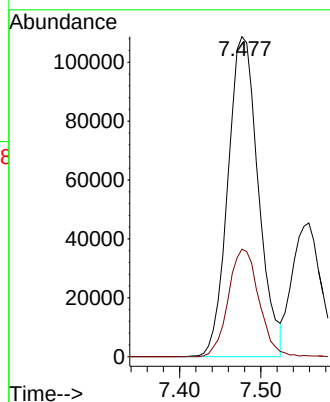
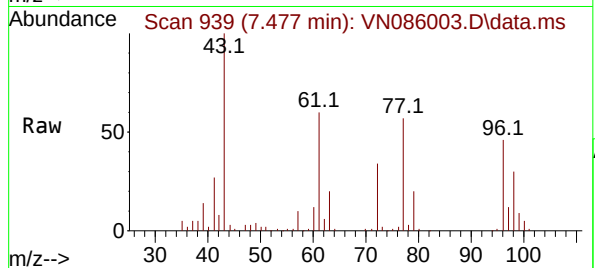
72 33.6 27.4 41.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#26

2,2-Dichloropropane

Concen: 55.667 ug/l

RT: 7.483 min Scan# 940

Delta R.T. -0.006 min

Lab File: VN086003.D

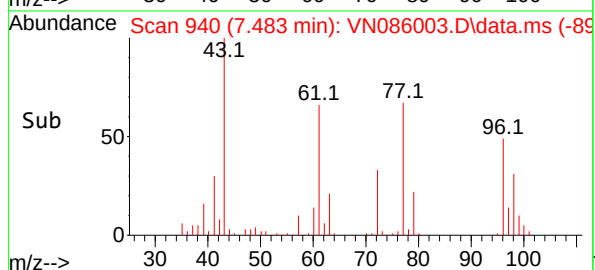
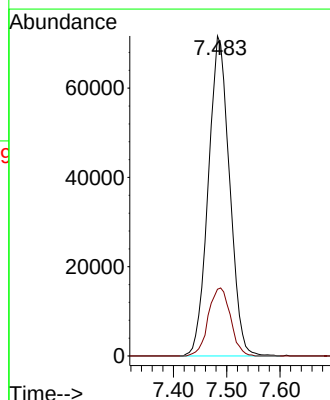
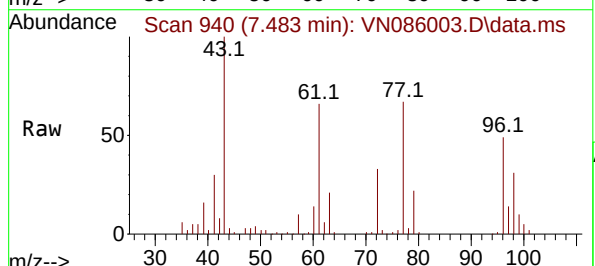
Acq: 18 Mar 2025 16:49

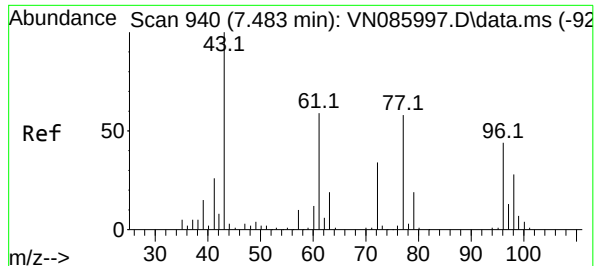
Tgt Ion: 77 Resp: 198771

Ion Ratio Lower Upper

77 100

97 22.1 11.2 33.5





#27

cis-1,2-Dichloroethene

Concen: 57.158 ug/l

RT: 7.483 min Scan# 940

Delta R.T. -0.000 min

Lab File: VN086003.D

Acq: 18 Mar 2025 16:49

Instrument :

MSVOA_N

ClientSampleId :

ICVVN031825

Tgt Ion: 96 Resp: 13466

Ion Ratio Lower Upper

96 100

61 138.1 0.0 272.8

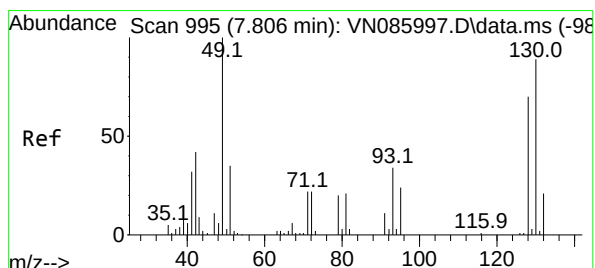
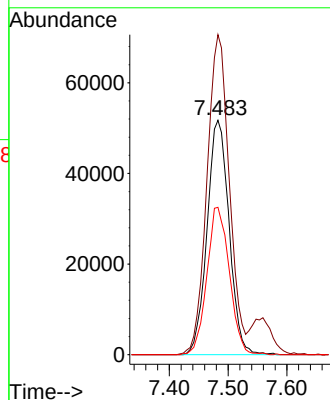
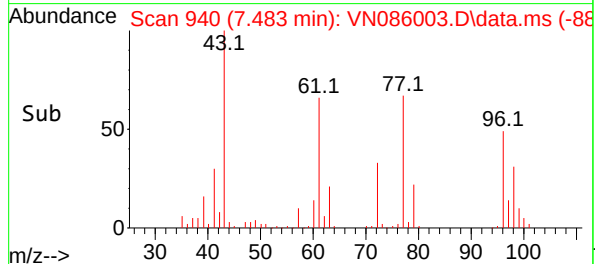
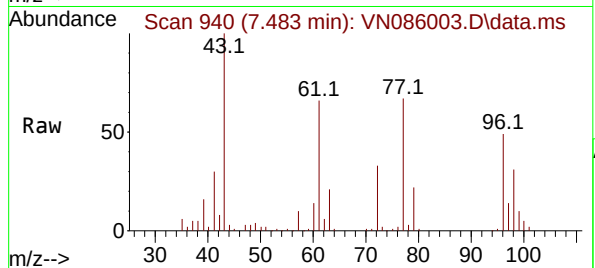
98 64.3 0.0 124.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#28

Bromochloromethane

Concen: 43.664 ug/l

RT: 7.812 min Scan# 996

Delta R.T. 0.006 min

Lab File: VN086003.D

Acq: 18 Mar 2025 16:49

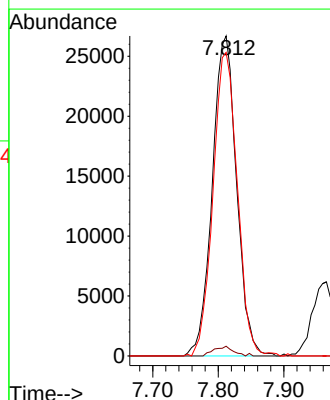
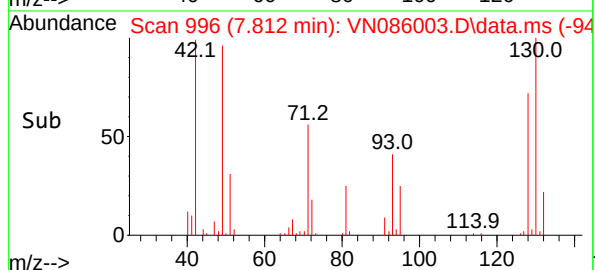
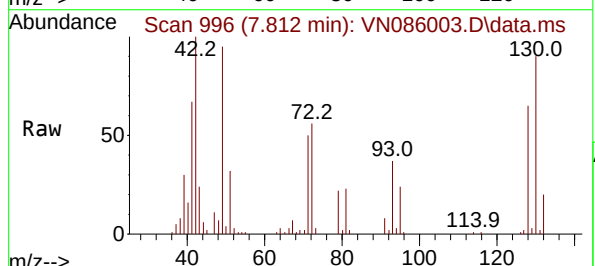
Tgt Ion: 49 Resp: 68612

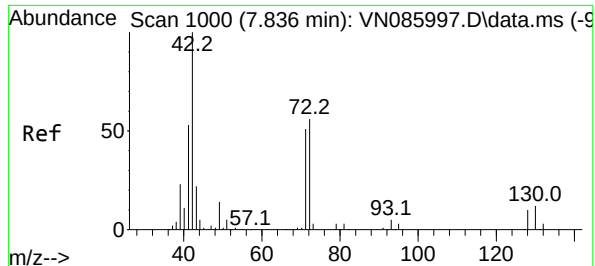
Ion Ratio Lower Upper

49 100

129 2.4 0.0 4.2

130 95.0 74.2 111.4





#29

Tetrahydrofuran

Concen: 269.263 ug/l

RT: 7.836 min Scan# 1000

Delta R.T. -0.000 min

Lab File: VN086003.D

Acq: 18 Mar 2025 16:49

Instrument :

MSVOA_N

ClientSampleId :

ICVVN031825

Tgt Ion: 42 Resp: 18582

Ion Ratio Lower Upper

42 100

72 57.2 45.0 67.4

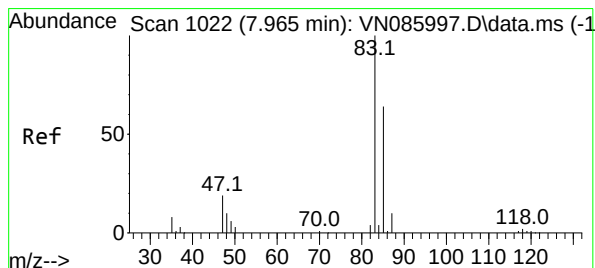
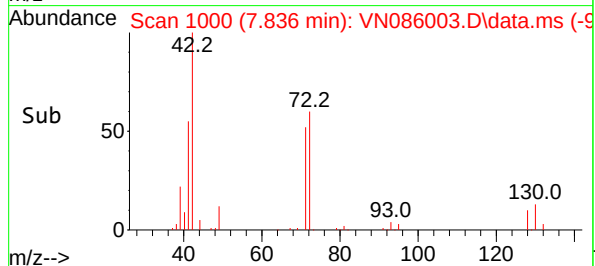
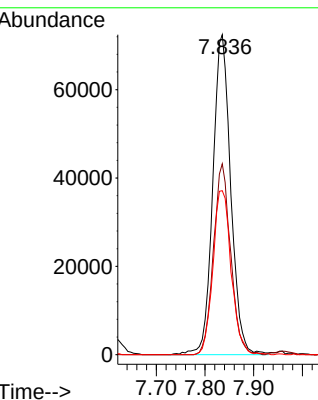
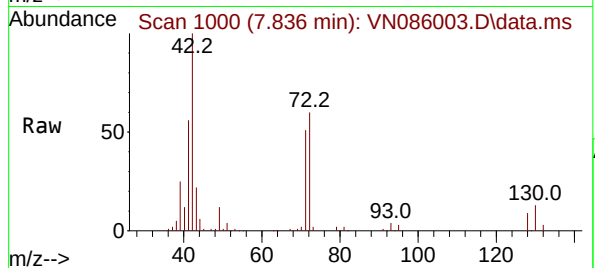
71 52.3 41.9 62.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#30

Chloroform

Concen: 54.394 ug/l

RT: 7.959 min Scan# 1021

Delta R.T. -0.006 min

Lab File: VN086003.D

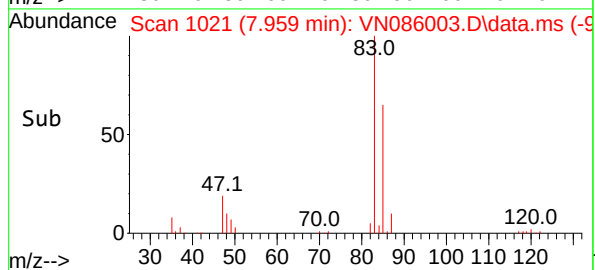
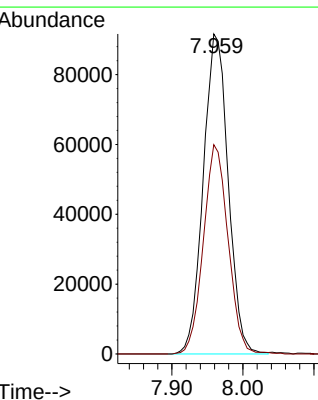
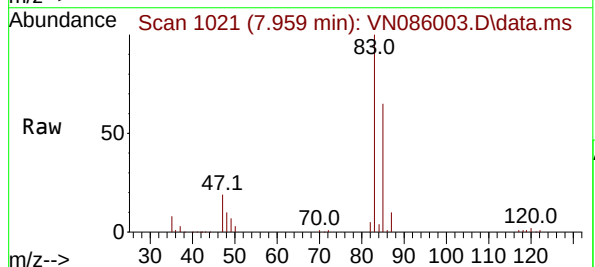
Acq: 18 Mar 2025 16:49

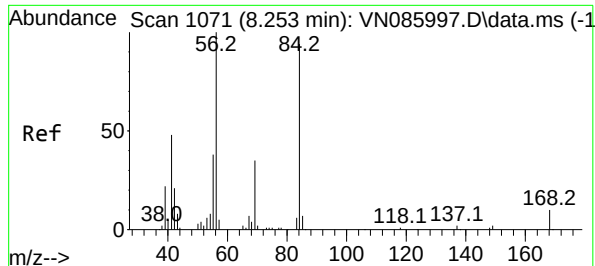
Tgt Ion: 83 Resp: 222991

Ion Ratio Lower Upper

83 100

85 65.4 51.5 77.3





#31

Cyclohexane

Concen: 54.721 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. -0.000 min

Lab File: VN086003.D

Acq: 18 Mar 2025 16:49

Instrument :

MSVOA_N

ClientSampleId :

ICV031825

Tgt Ion: 56 Resp: 17289

Ion Ratio Lower Upper

56 100

69 32.4 28.0 42.0

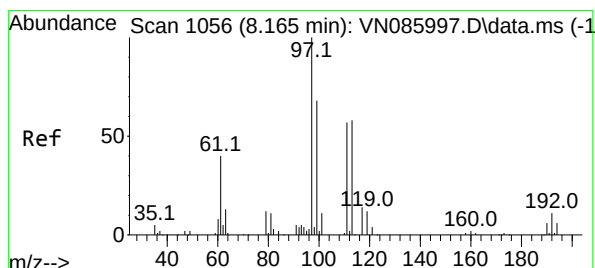
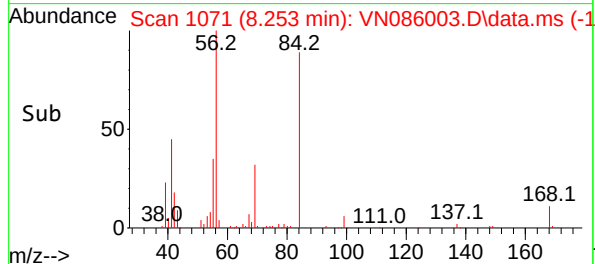
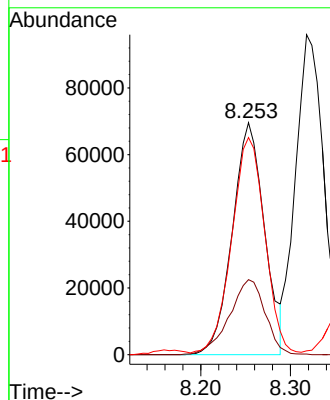
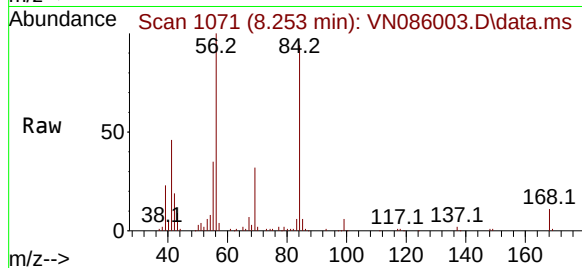
84 92.0 75.0 112.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#32

1,1,1-Trichloroethane

Concen: 55.539 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086003.D

Acq: 18 Mar 2025 16:49

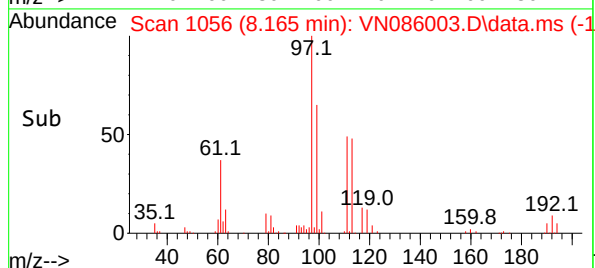
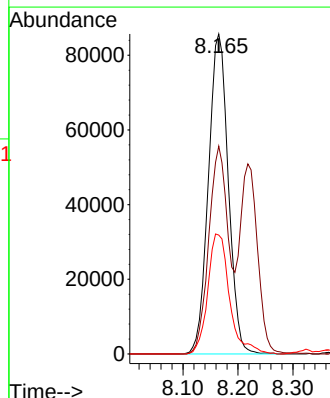
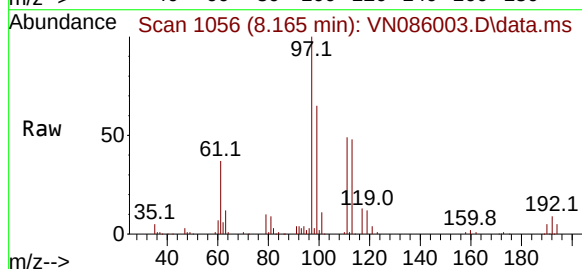
Tgt Ion: 97 Resp: 215524

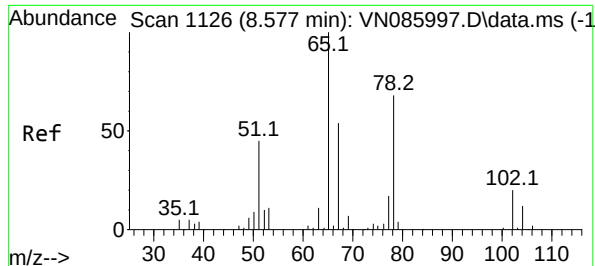
Ion Ratio Lower Upper

97 100

99 64.6 52.8 79.2

61 41.0 33.6 50.4





#33

1,2-Dichloroethane-d4

Concen: 49.524 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN086003.D

Acq: 18 Mar 2025 16:49

Instrument :

MSVOA_N

ClientSampleId :

ICVVN031825

Tgt Ion: 65 Resp: 12558

Ion Ratio Lower Upper

65 100

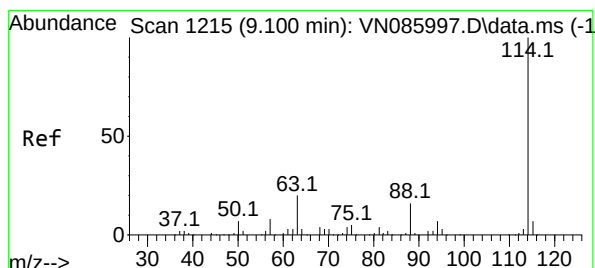
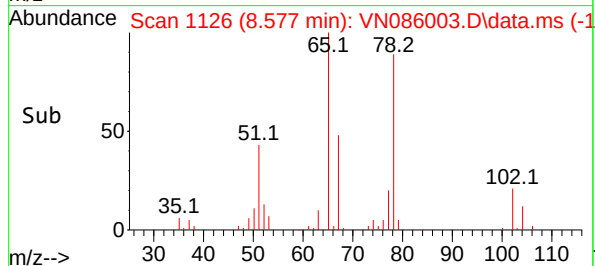
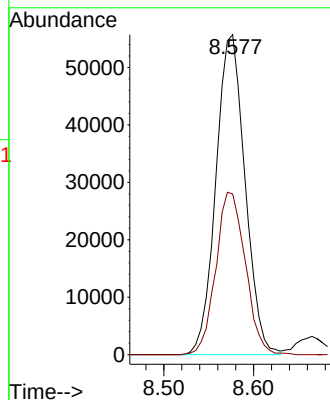
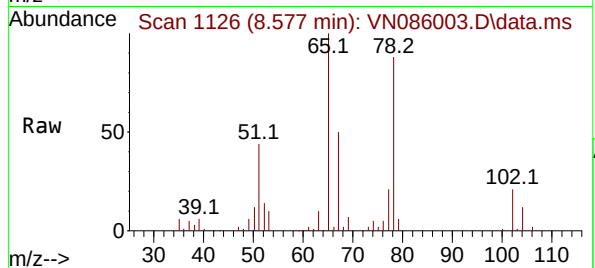
67 51.5 0.0 102.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN086003.D

Acq: 18 Mar 2025 16:49

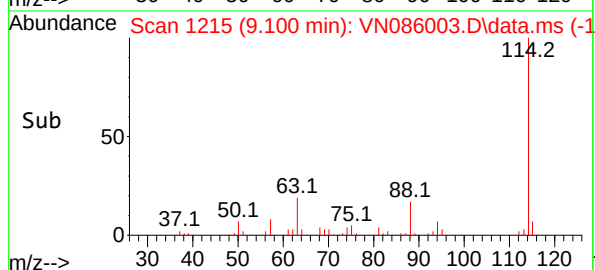
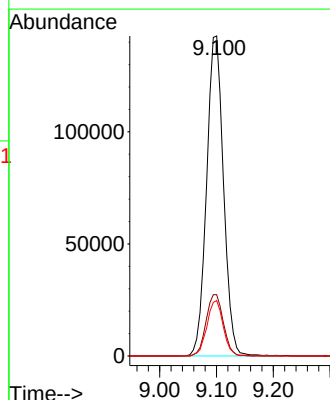
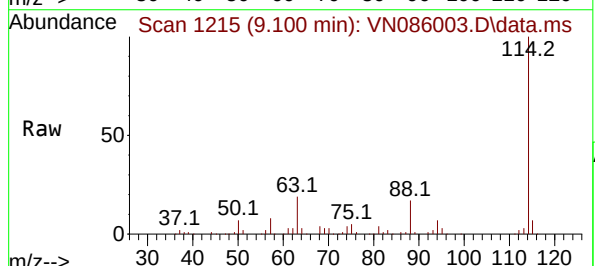
Tgt Ion:114 Resp: 294426

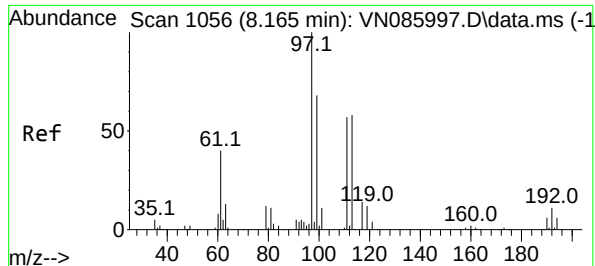
Ion Ratio Lower Upper

114 100

63 19.2 0.0 39.6

88 17.3 0.0 32.6





#35

Dibromofluoromethane

Concen: 48.666 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086003.D

Acq: 18 Mar 2025 16:49

Instrument :

MSVOA_N

ClientSampleId :

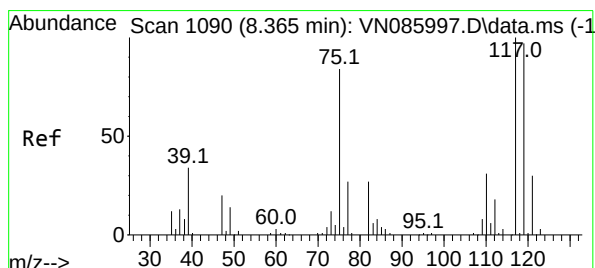
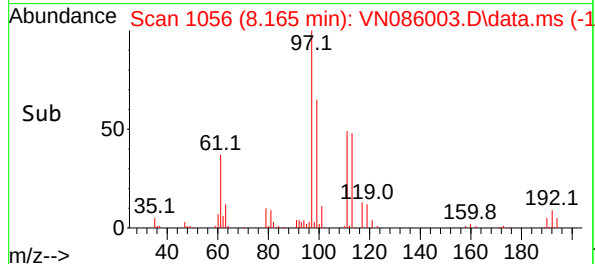
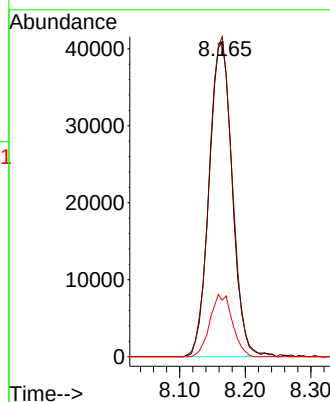
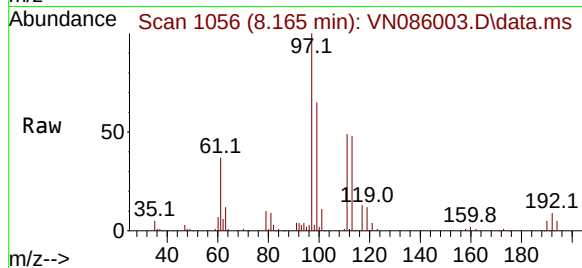
ICVNV031825

Tgt Ion:	113	Resp:	10001
Ion	Ratio	Lower	Upper
113	100		
111	101.5	81.8	122.8
192	19.2	15.9	23.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#36

1,1-Dichloropropene

Concen: 57.540 ug/l

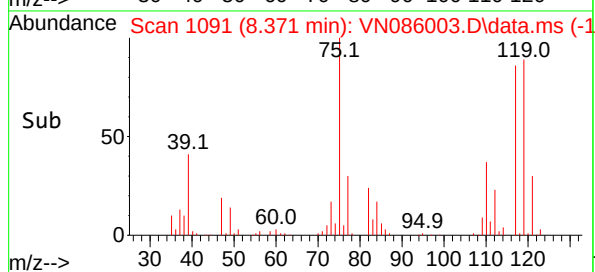
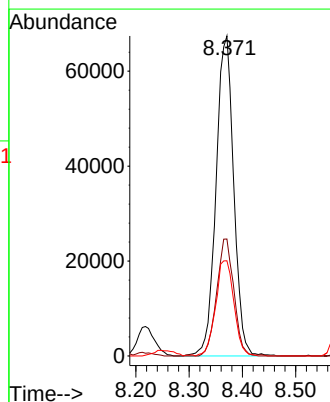
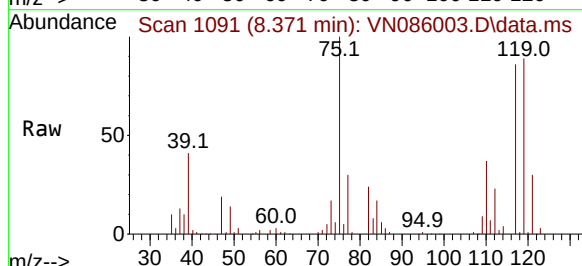
RT: 8.371 min Scan# 1091

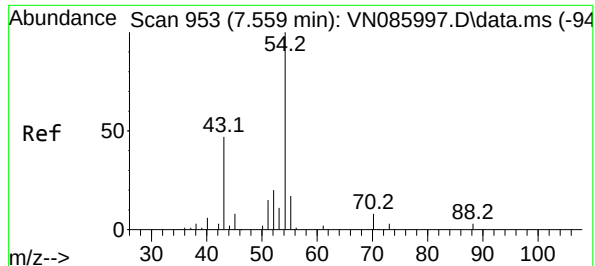
Delta R.T. 0.006 min

Lab File: VN086003.D

Acq: 18 Mar 2025 16:49

Tgt Ion:	75	Resp:	155704
Ion	Ratio	Lower	Upper
75	100		
110	35.5	17.8	53.3
77	30.9	25.0	37.4





#37

Ethyl Acetate

Concen: 50.756 ug/l

RT: 7.559 min Scan# 91

Delta R.T. -0.000 min

Lab File: VN086003.D

Acq: 18 Mar 2025 16:49

Instrument :

MSVOA_N

ClientSampleId :

ICVFN031825

Tgt Ion: 43 Resp: 11587

Ion Ratio Lower Upper

43 100

61 17.7 13.0 19.4

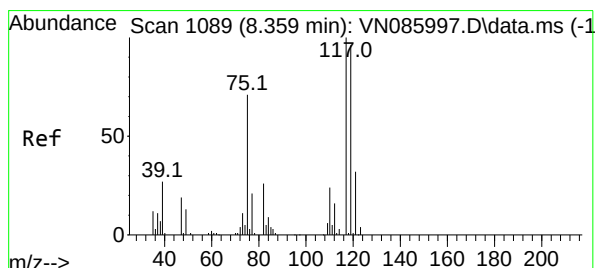
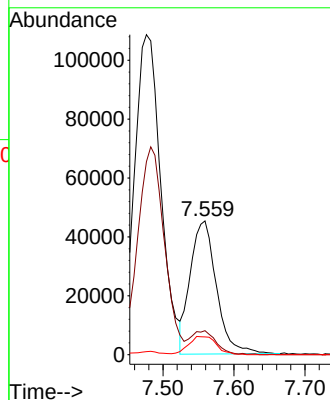
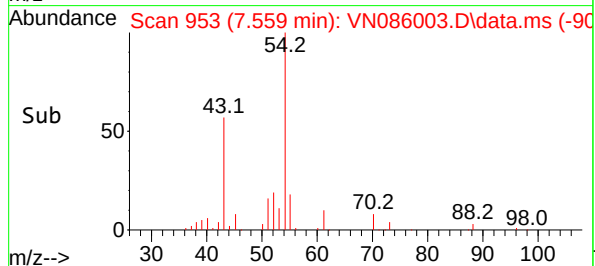
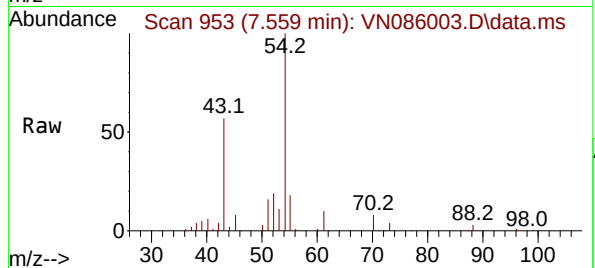
70 14.5 11.0 16.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#38

Carbon Tetrachloride

Concen: 56.517 ug/l

RT: 8.359 min Scan# 1089

Delta R.T. -0.000 min

Lab File: VN086003.D

Acq: 18 Mar 2025 16:49

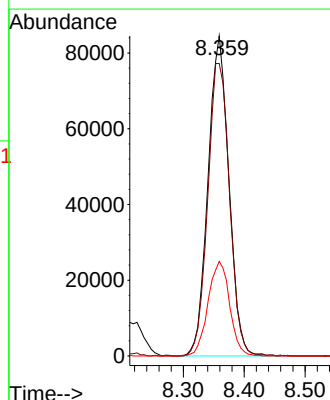
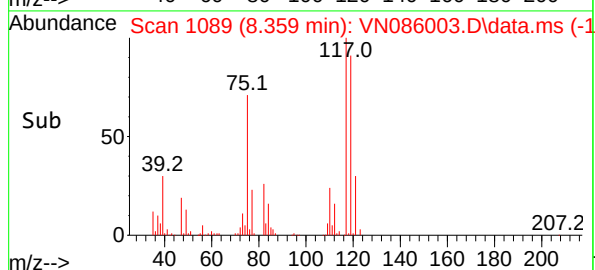
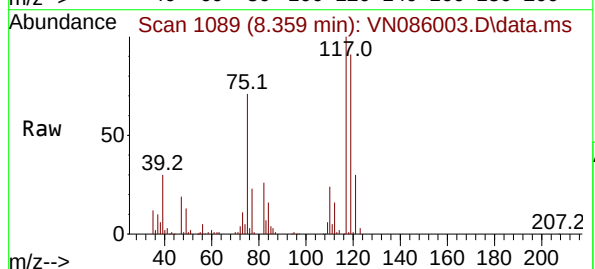
Tgt Ion:117 Resp: 201085

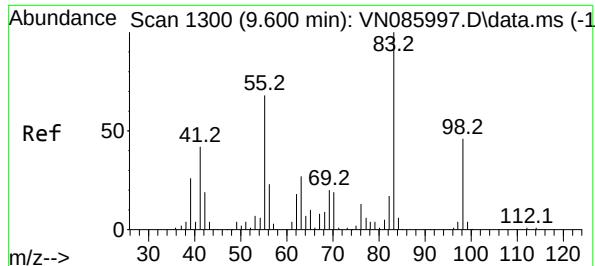
Ion Ratio Lower Upper

117 100

119 91.4 77.0 115.4

121 29.5 25.6 38.4





#39

Methylcyclohexane

Concen: 60.818 ug/l

RT: 9.600 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN086003.D

Acq: 18 Mar 2025 16:49

Instrument :

MSVOA_N

ClientSampleId :

ICVVN031825

Tgt Ion: 83 Resp: 163279

Ion Ratio Lower Upper

83 100

55 68.3 54.2 81.2

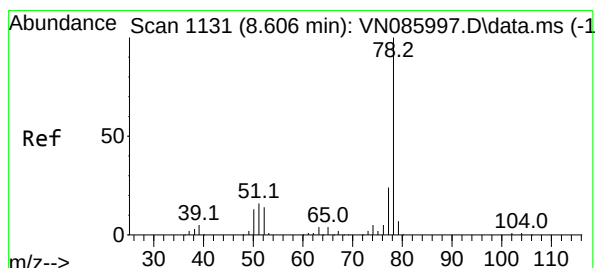
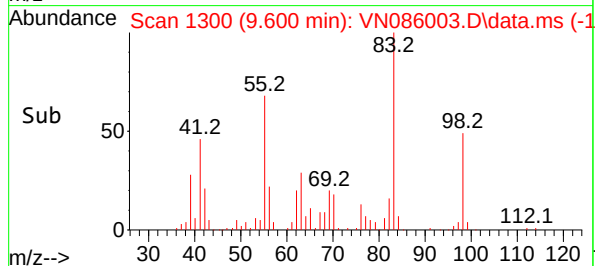
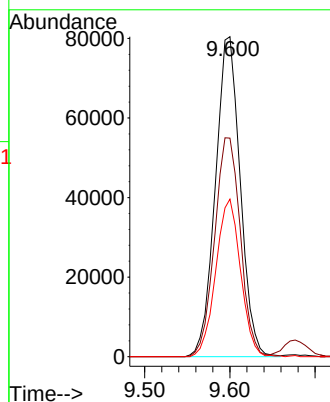
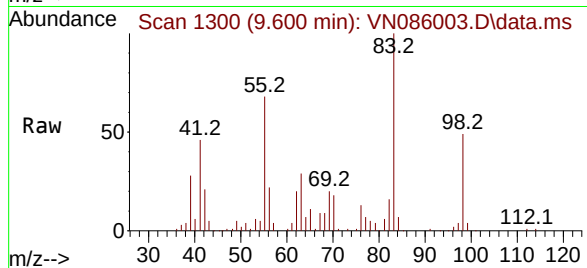
98 49.3 37.1 55.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#40

Benzene

Concen: 56.869 ug/l

RT: 8.600 min Scan# 1130

Delta R.T. -0.006 min

Lab File: VN086003.D

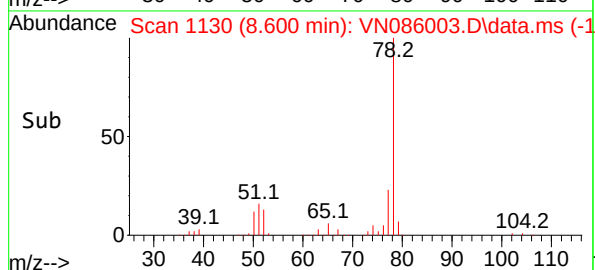
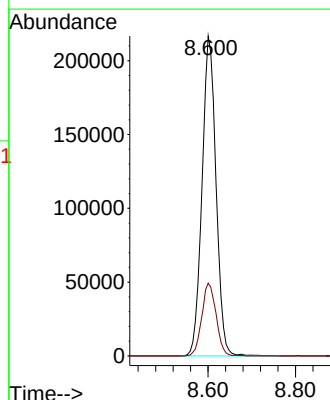
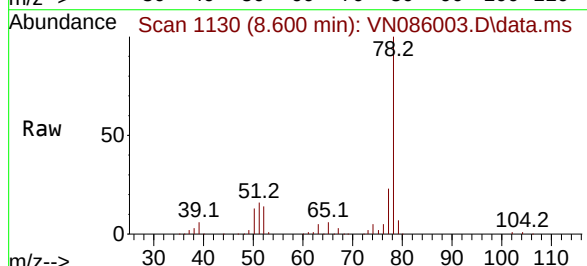
Acq: 18 Mar 2025 16:49

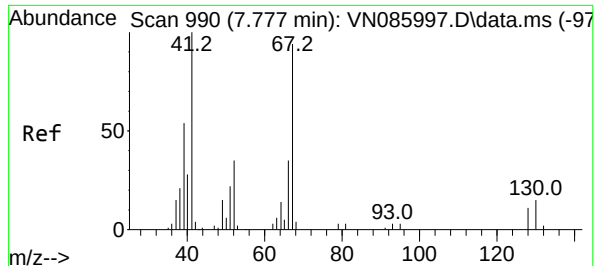
Tgt Ion: 78 Resp: 483089

Ion Ratio Lower Upper

78 100

77 22.7 18.9 28.3





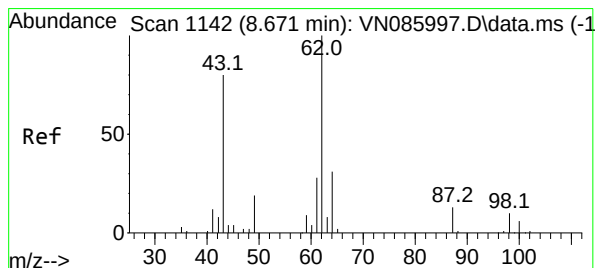
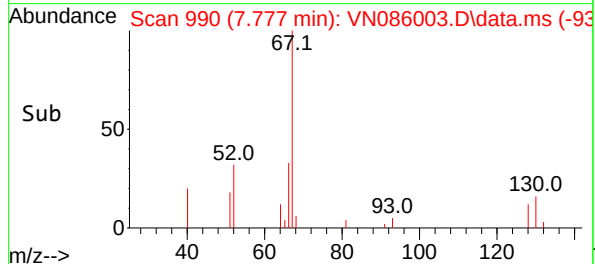
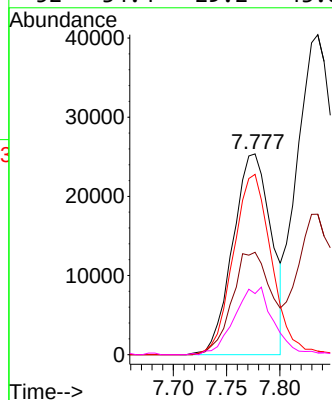
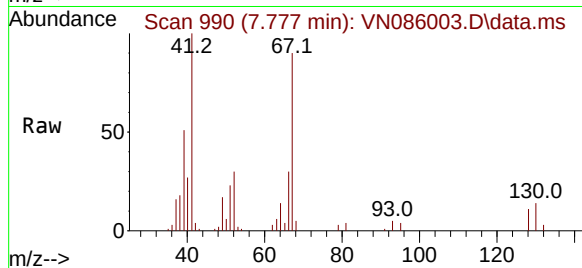
#41
Methacrylonitrile
Concen: 58.457 ug/l
RT: 7.777 min Scan# 990
Delta R.T. -0.000 min
Lab File: VN086003.D
Acq: 18 Mar 2025 16:49

Instrument :
MSVOA_N
ClientSampleId :
ICNVN031825

Tgt Ion:	41	Resp:	6372
Ion Ratio	Lower	Upper	
41	100		
39	51.7	46.2	69.2
67	89.4	75.9	113.9
52	34.4	29.2	43.8

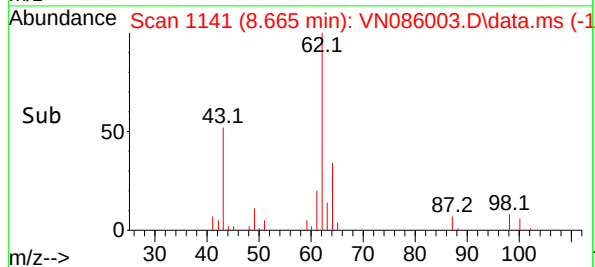
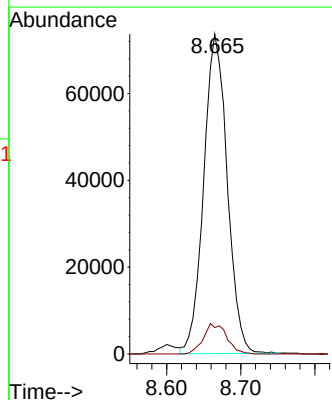
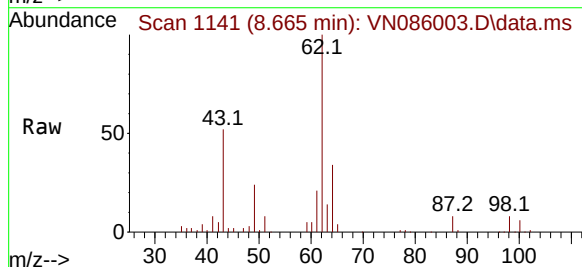
Manual Integrations
APPROVED

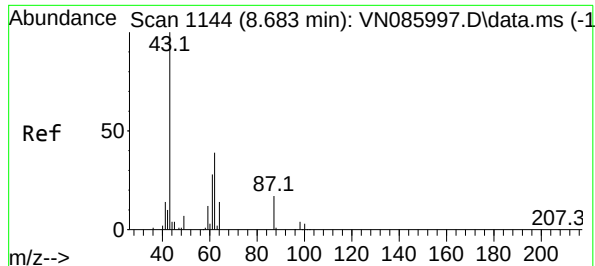
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#42
1,2-Dichloroethane
Concen: 54.822 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. -0.006 min
Lab File: VN086003.D
Acq: 18 Mar 2025 16:49

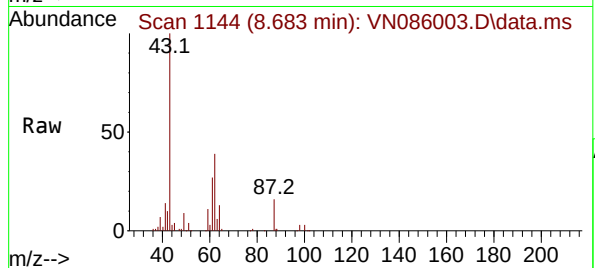
Tgt Ion:	62	Resp:	162271
Ion Ratio	Lower	Upper	
62	100		
98	9.4	0.0	18.6





#43
Isopropyl Acetate
Concen: 41.226 ug/l
RT: 8.683 min Scan# 1144
Delta R.T. -0.000 min
Lab File: VN086003.D
Acq: 18 Mar 2025 16:49

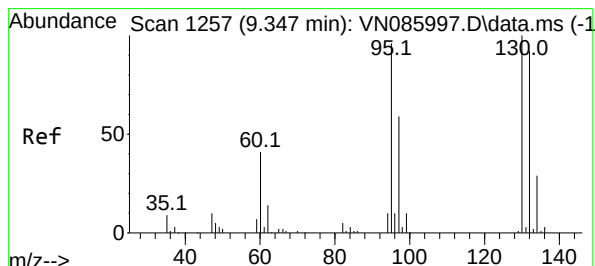
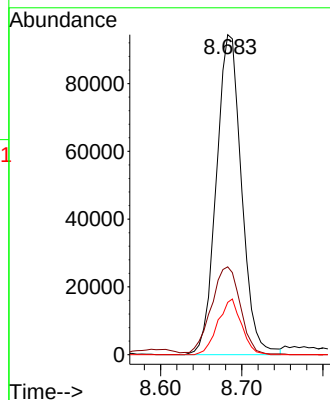
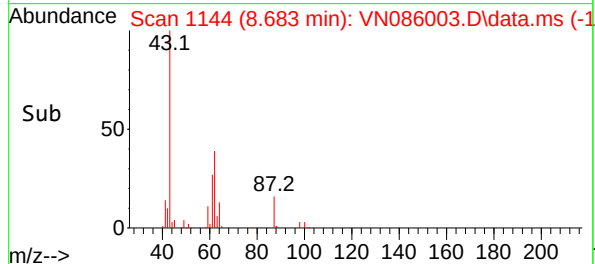
Instrument :
MSVOA_N
ClientSampleId :
ICVVN031825



Tgt Ion: 43 Resp: 20394
Ion Ratio Lower Upper
43 100
61 31.7 25.0 37.6
87 16.3 13.0 19.4

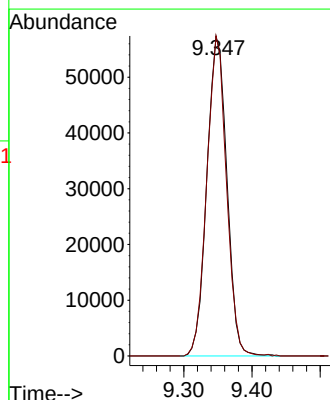
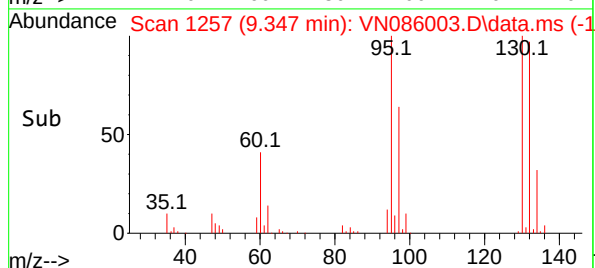
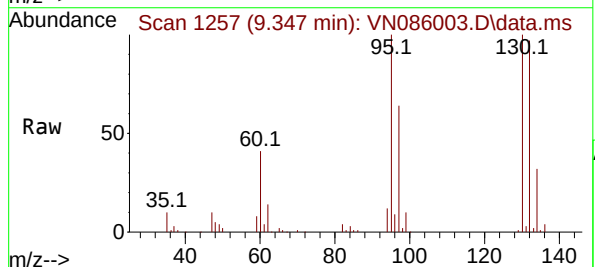
Manual Integrations
APPROVED

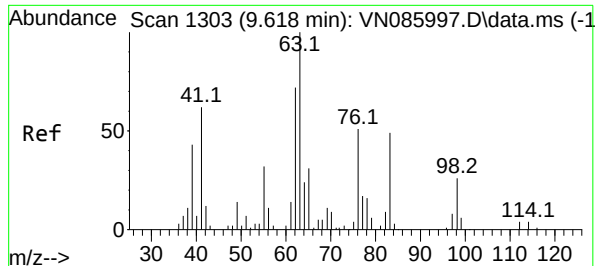
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#44
Trichloroethene
Concen: 53.255 ug/l
RT: 9.347 min Scan# 1257
Delta R.T. -0.000 min
Lab File: VN086003.D
Acq: 18 Mar 2025 16:49

Tgt Ion:130 Resp: 117248
Ion Ratio Lower Upper
130 100
95 100.1 0.0 191.6





#45

1,2-Dichloropropane

Concen: 57.740 ug/l

RT: 9.618 min Scan# 11156

Delta R.T. -0.000 min

Lab File: VN086003.D

Acq: 18 Mar 2025 16:49

Instrument :

MSVOA_N

ClientSampleId :

ICVVN031825

Tgt Ion: 63 Resp: 11156

Ion Ratio Lower Upper

63 100

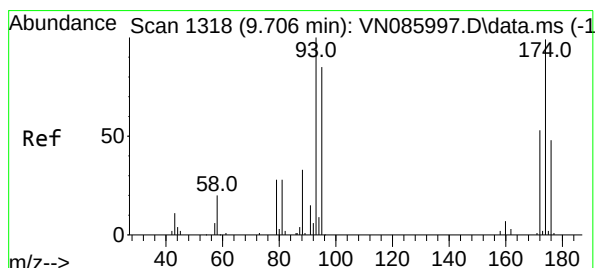
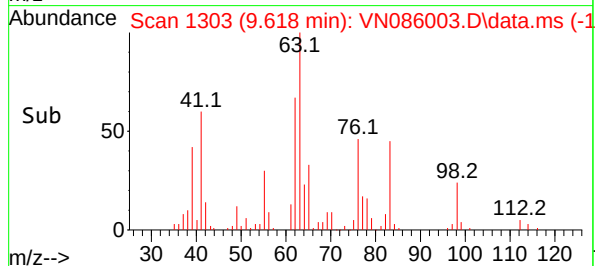
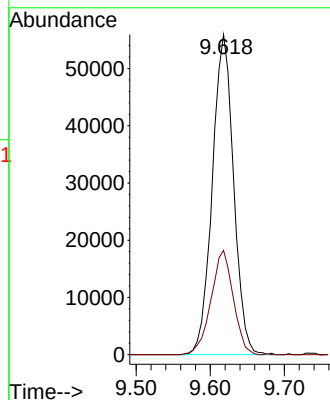
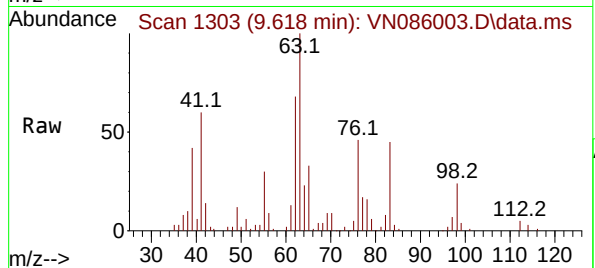
65 32.6 24.7 37.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#46

Dibromomethane

Concen: 56.012 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. -0.000 min

Lab File: VN086003.D

Acq: 18 Mar 2025 16:49

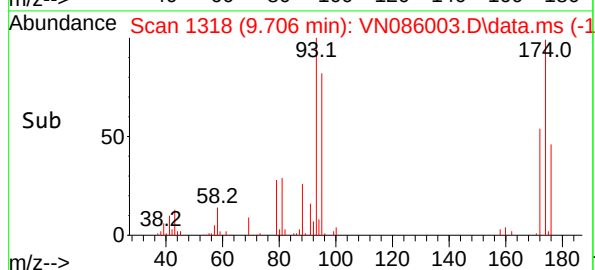
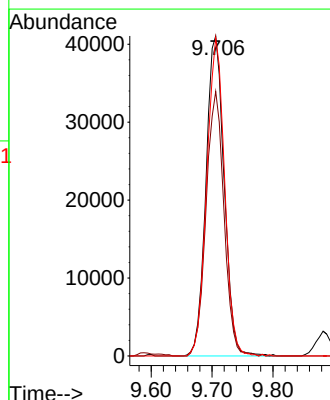
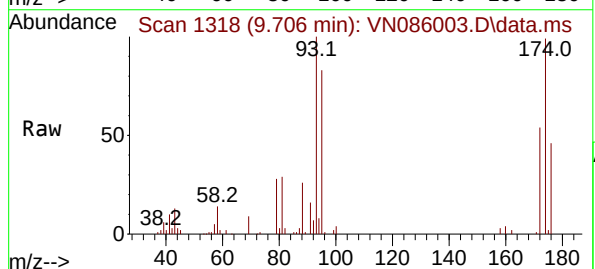
Tgt Ion: 93 Resp: 85108

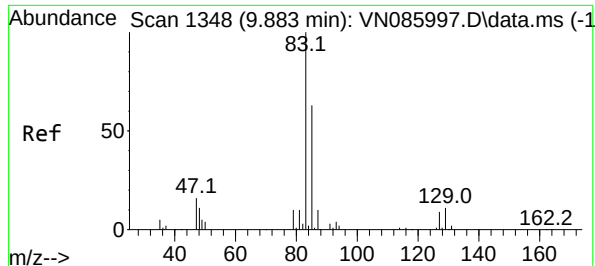
Ion Ratio Lower Upper

93 100

95 81.6 66.2 99.2

174 97.3 80.1 120.1





#47

Bromodichloromethane

Concen: 55.753 ug/l

RT: 9.882 min Scan# 1348

Delta R.T. -0.000 min

Lab File: VN086003.D

Acq: 18 Mar 2025 16:49

Instrument :

MSVOA_N

ClientSampleId :

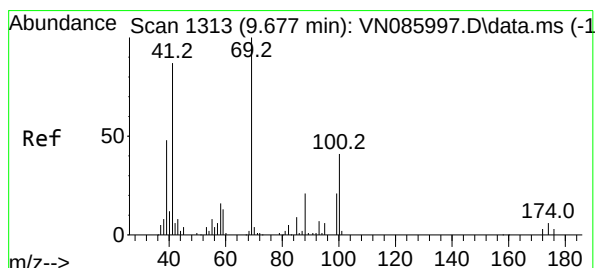
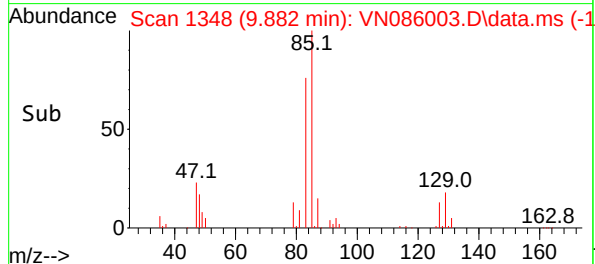
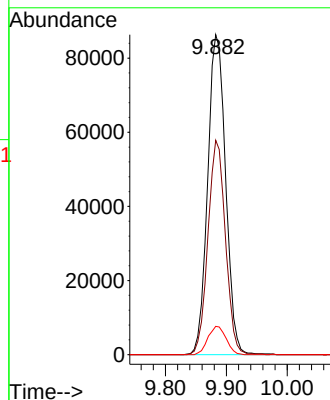
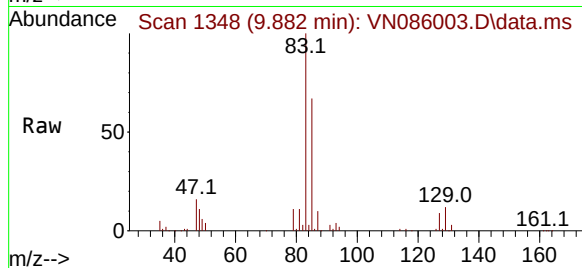
ICV031825

Tgt Ion:	83	Resp:	17705
Ion	Ratio	Lower	Upper
83	100		
85	67.0	50.2	75.2
127	8.9	7.1	10.7

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#48

Methyl methacrylate

Concen: 57.751 ug/l

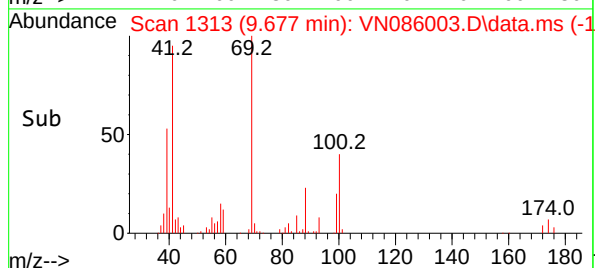
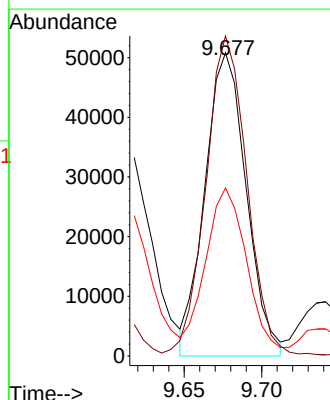
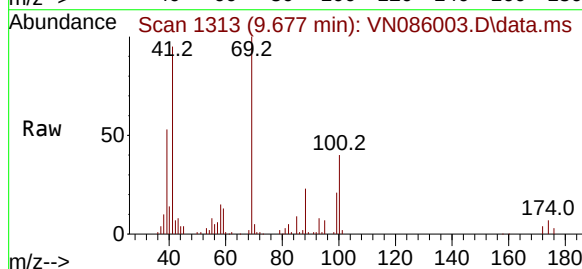
RT: 9.677 min Scan# 1313

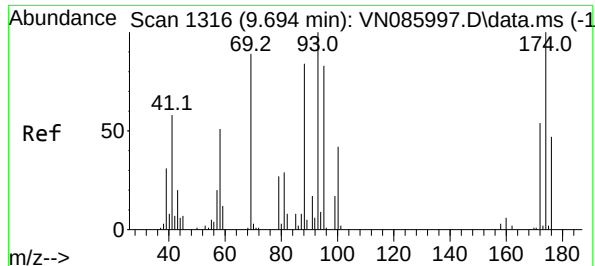
Delta R.T. -0.000 min

Lab File: VN086003.D

Acq: 18 Mar 2025 16:49

Tgt Ion:	41	Resp:	94275
Ion	Ratio	Lower	Upper
41	100		
69	105.3	83.1	124.7
39	55.7	45.6	68.4





#49

1,4-Dioxane

Concen: 1057.815 ug/l

RT: 9.688 min Scan# 11

Delta R.T. -0.006 min

Lab File: VN086003.D

Acq: 18 Mar 2025 16:49

Instrument :

MSVOA_N

ClientSampleId :

ICVVN031825

Tgt Ion: 88 Resp: 4082

Ion Ratio Lower Upper

88 100

43 25.1 21.7 32.5

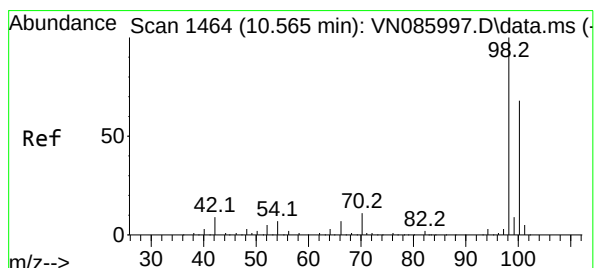
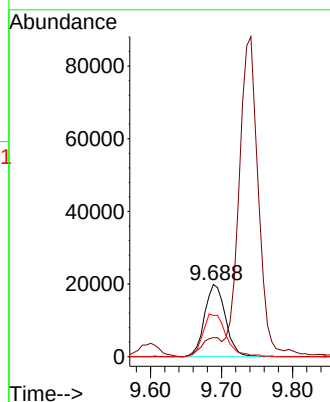
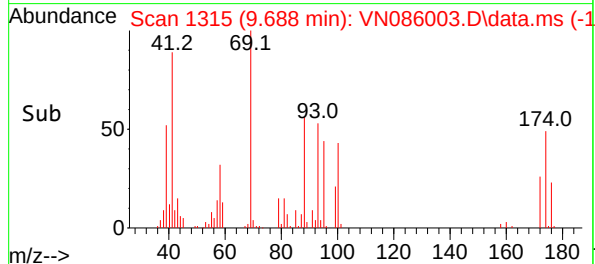
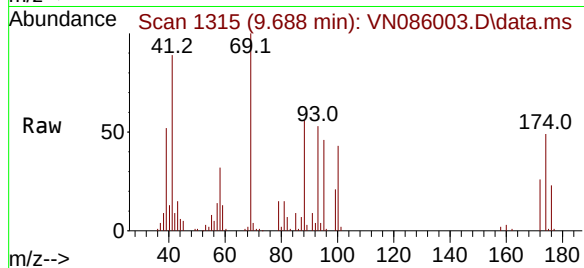
58 65.5 50.4 75.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#50

Toluene-d8

Concen: 51.736 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN086003.D

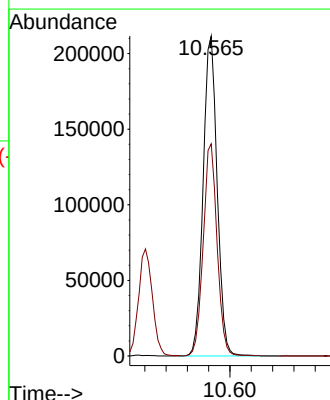
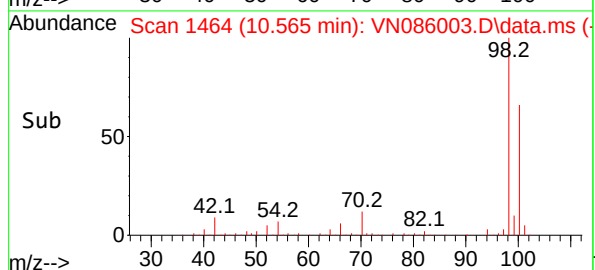
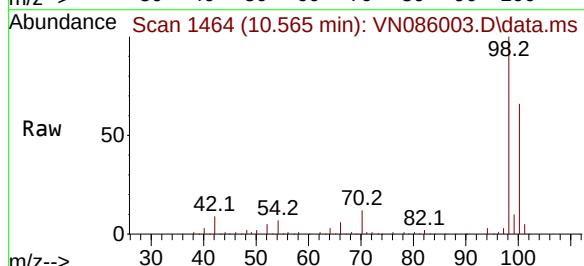
Acq: 18 Mar 2025 16:49

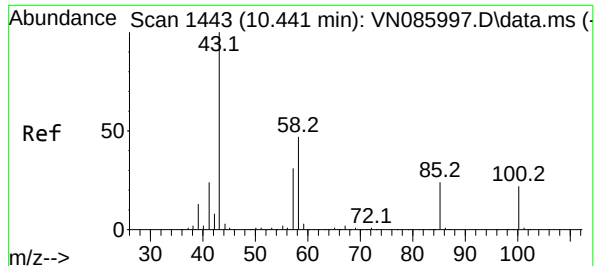
Tgt Ion: 98 Resp: 385868

Ion Ratio Lower Upper

98 100

100 65.6 53.1 79.7





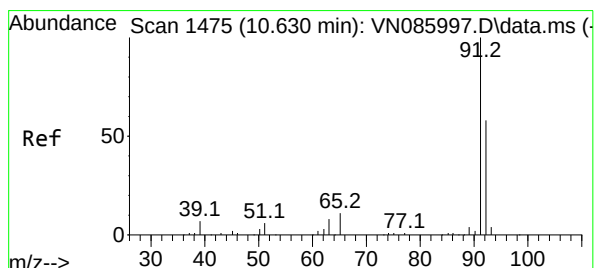
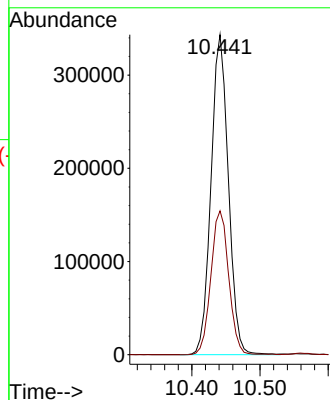
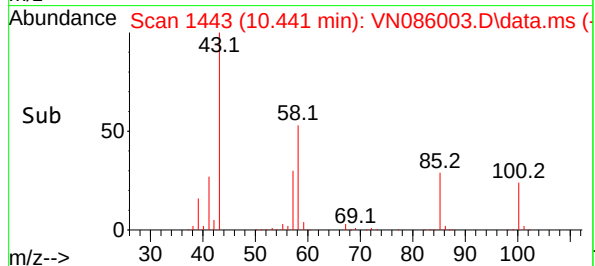
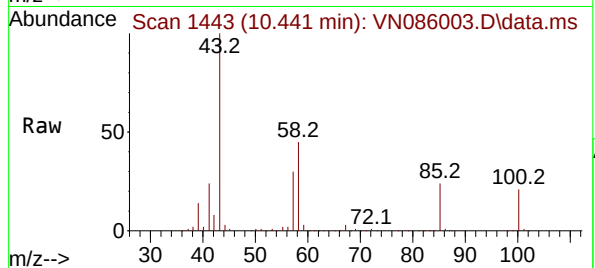
#51
4-Methyl-2-Pentanone
Concen: 278.467 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN086003.D
Acq: 18 Mar 2025 16:49

Instrument :
MSVOA_N
ClientSampleId :
ICVNVN031825

Tgt Ion: 43 Resp: 60753
Ion Ratio Lower Upper
43 100
58 46.2 37.4 56.0

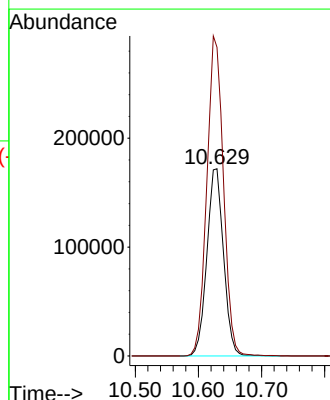
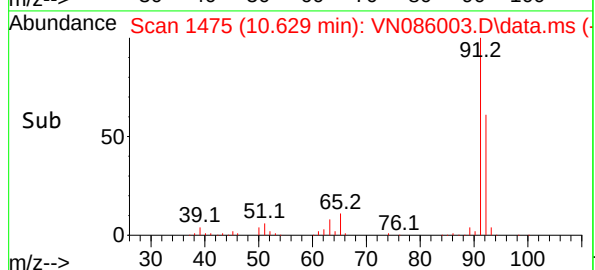
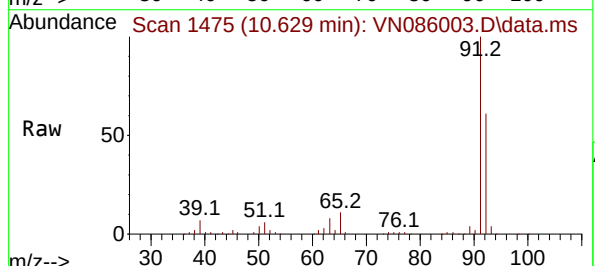
Manual Integrations
APPROVED

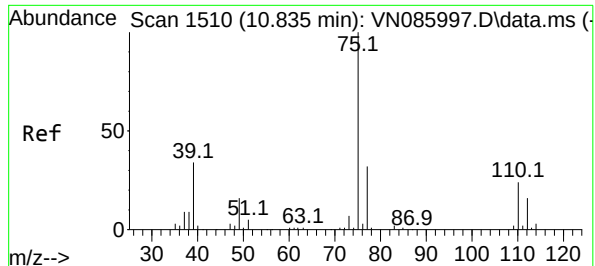
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#52
Toluene
Concen: 60.348 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN086003.D
Acq: 18 Mar 2025 16:49

Tgt Ion: 92 Resp: 314632
Ion Ratio Lower Upper
92 100
91 169.9 136.2 204.4





#53

t-1,3-Dichloropropene

Concen: 59.689 ug/l

RT: 10.829 min Scan# 11

Delta R.T. -0.006 min

Lab File: VN086003.D

Acq: 18 Mar 2025 16:49

Instrument :

MSVOA_N

ClientSampleId :

ICVVN031825

Tgt Ion: 75 Resp: 184084

Ion Ratio Lower Upper

75 100

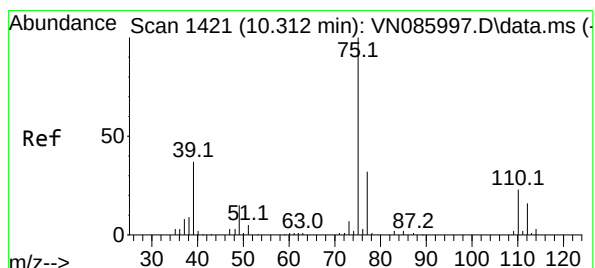
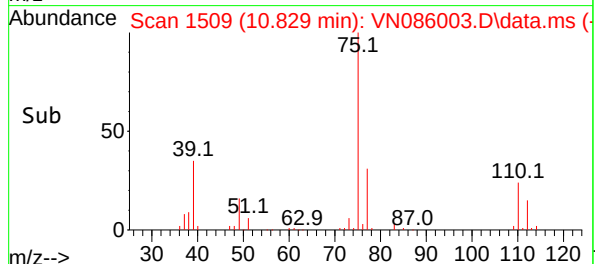
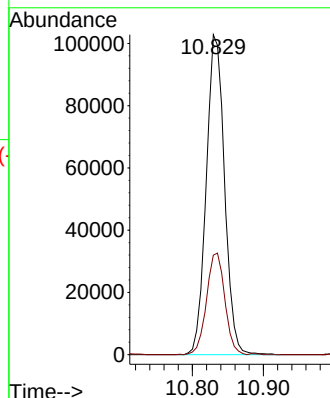
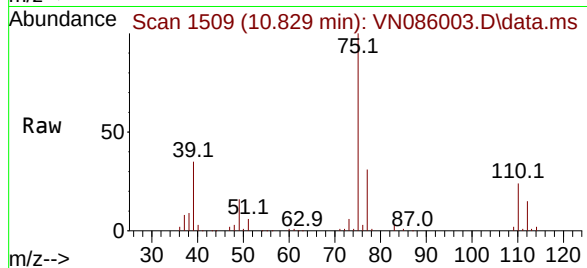
77 31.1 25.3 37.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#54

cis-1,3-Dichloropropene

Concen: 59.921 ug/l

RT: 10.306 min Scan# 1420

Delta R.T. -0.006 min

Lab File: VN086003.D

Acq: 18 Mar 2025 16:49

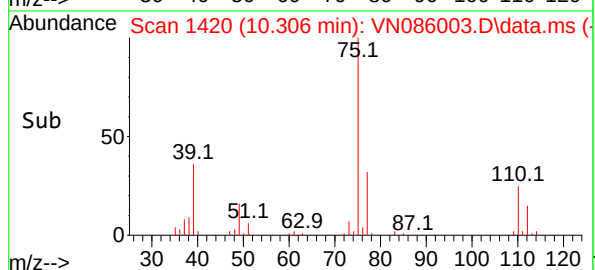
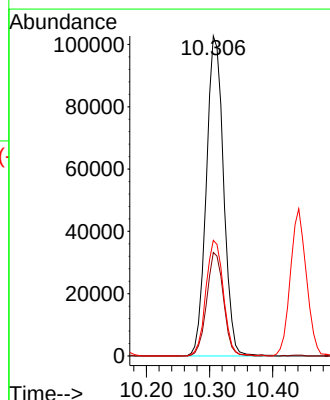
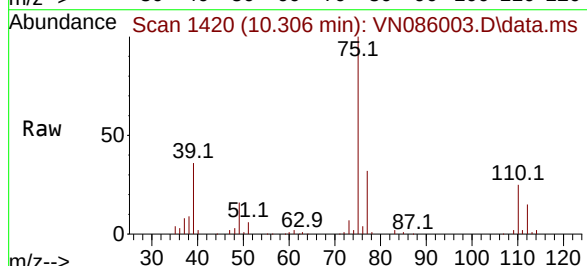
Tgt Ion: 75 Resp: 194976

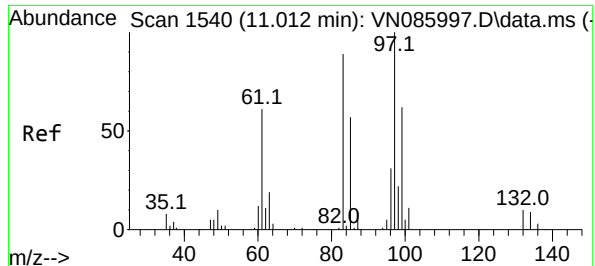
Ion Ratio Lower Upper

75 100

77 32.3 25.3 37.9

39 36.2 29.6 44.4





#55

1,1,2-Trichloroethane

Concen: 56.064 ug/l

RT: 11.012 min Scan# 11156

Delta R.T. -0.000 min

Lab File: VN086003.D

Acq: 18 Mar 2025 16:49

Instrument :

MSVOA_N

ClientSampleId :

ICVVN031825

Tgt Ion: 97 Resp: 11156

Ion Ratio Lower Upper

97 100

83 83.8 71.2 106.8

85 54.4 45.4 68.0

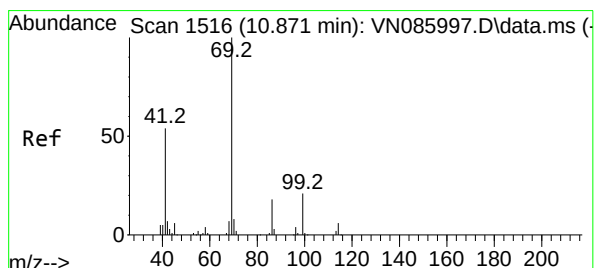
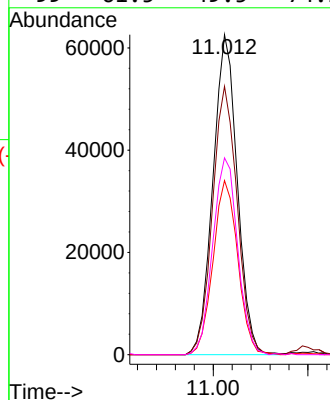
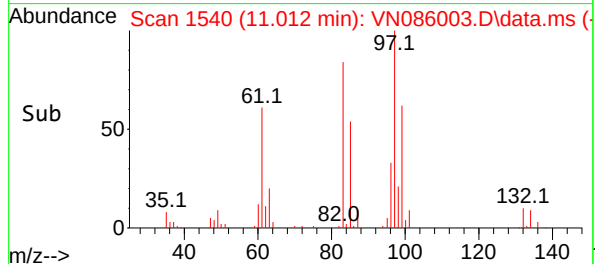
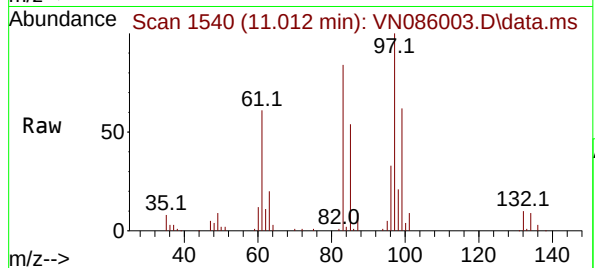
99 61.5 49.5 74.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#56

Ethyl methacrylate

Concen: 55.208 ug/l

RT: 10.871 min Scan# 1516

Delta R.T. -0.000 min

Lab File: VN086003.D

Acq: 18 Mar 2025 16:49

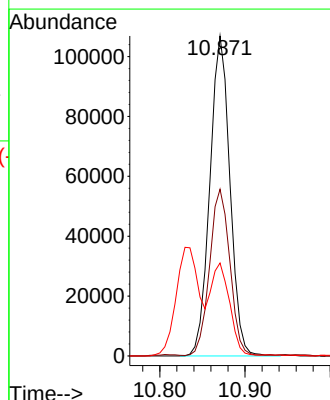
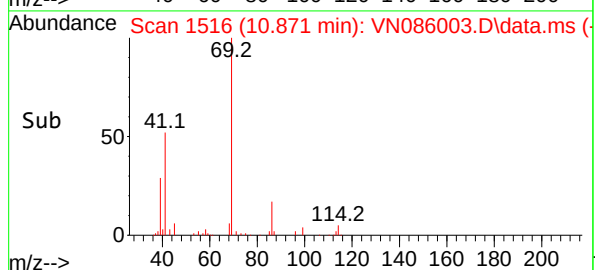
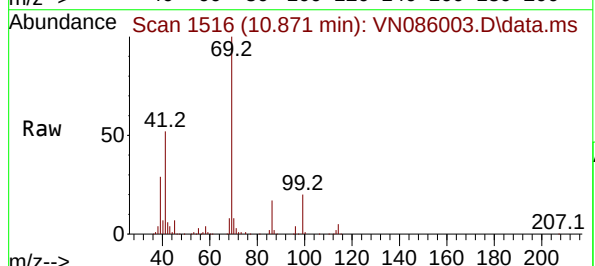
Tgt Ion: 69 Resp: 174971

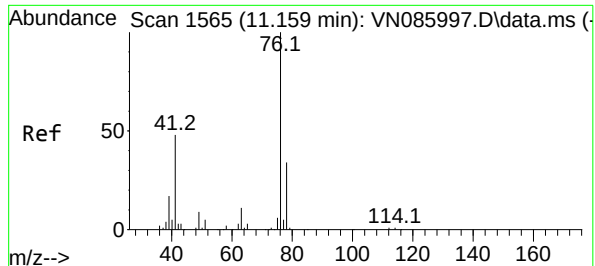
Ion Ratio Lower Upper

69 100

41 52.3 41.6 62.4

39 26.9 21.8 32.8





#57

1,3-Dichloropropane

Concen: 57.684 ug/l

RT: 11.159 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN086003.D

Acq: 18 Mar 2025 16:49

Instrument :

MSVOA_N

ClientSampleId :

ICVVN031825

Tgt Ion: 76 Resp: 194964

Ion Ratio Lower Upper

76 100

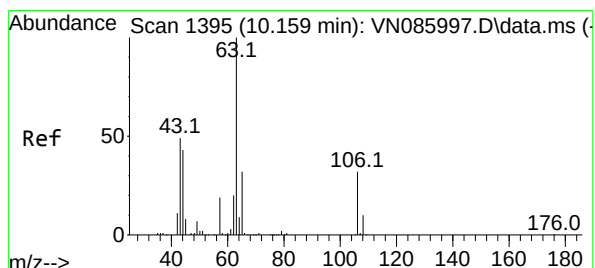
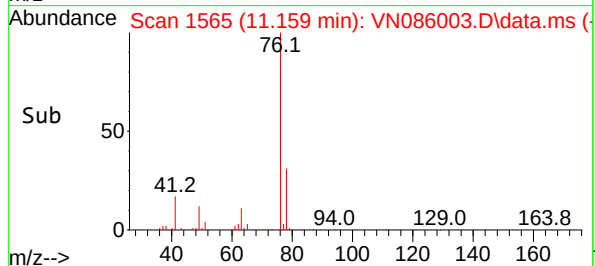
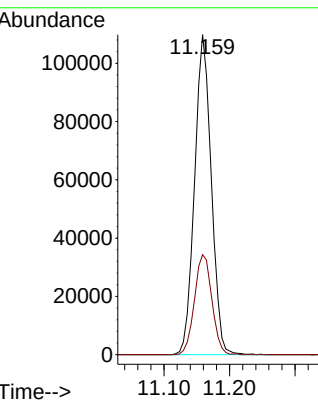
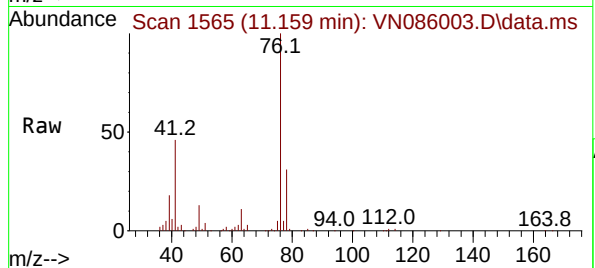
78 32.5 25.8 38.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#58

2-Chloroethyl Vinyl ether

Concen: 306.978 ug/l

RT: 10.153 min Scan# 1394

Delta R.T. -0.006 min

Lab File: VN086003.D

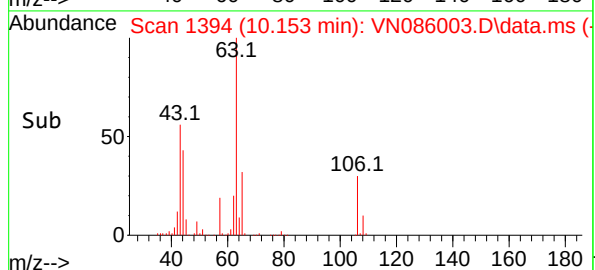
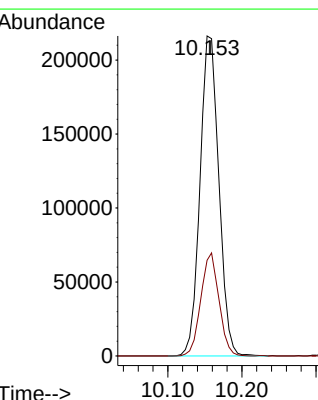
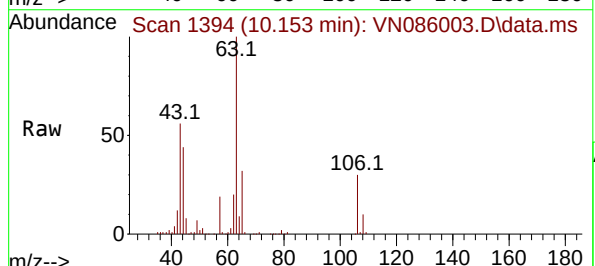
Acq: 18 Mar 2025 16:49

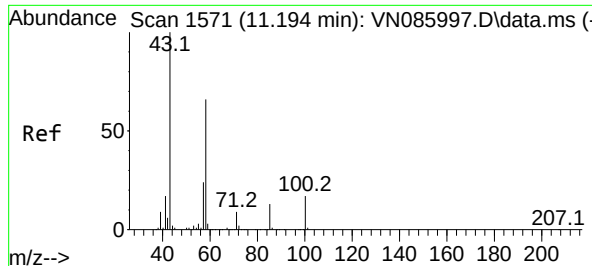
Tgt Ion: 63 Resp: 382073

Ion Ratio Lower Upper

63 100

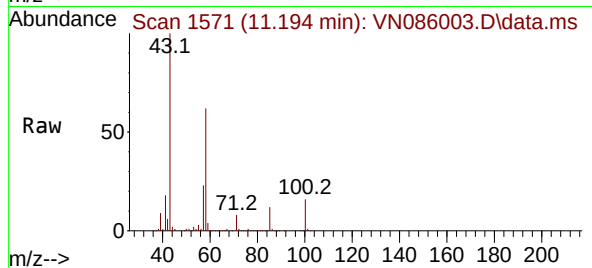
106 30.9 25.0 37.6





#59
2-Hexanone
Concen: 282.228 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. -0.000 min
Lab File: VN086003.D
Acq: 18 Mar 2025 16:49

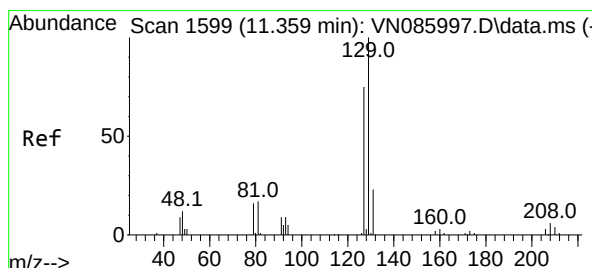
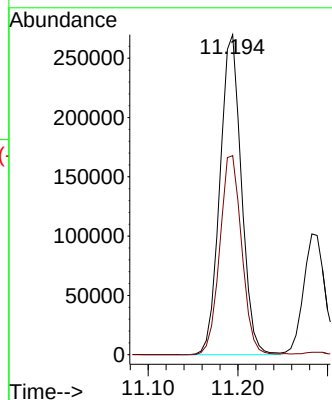
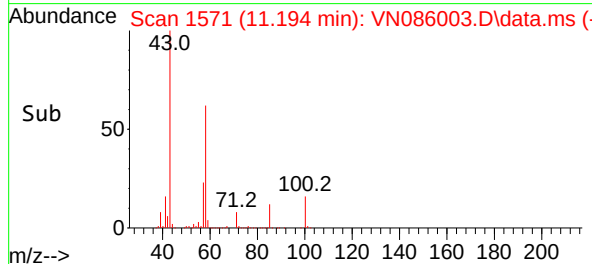
Instrument :
MSVOA_N
ClientSampleId :
ICVVN031825



Tgt Ion: 43 Resp: 448560
Ion Ratio Lower Upper
43 100
58 63.5 32.4 97.2

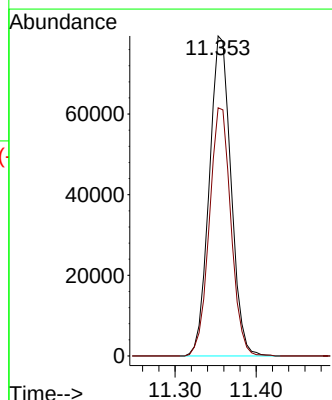
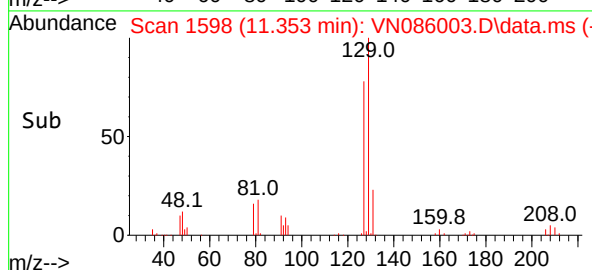
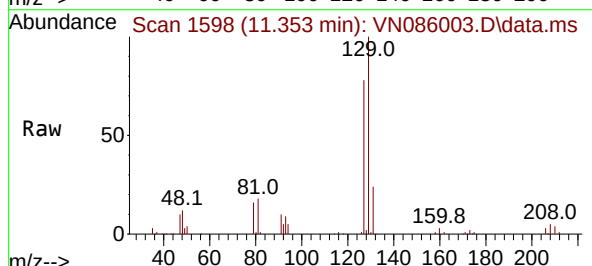
Manual Integrations
APPROVED

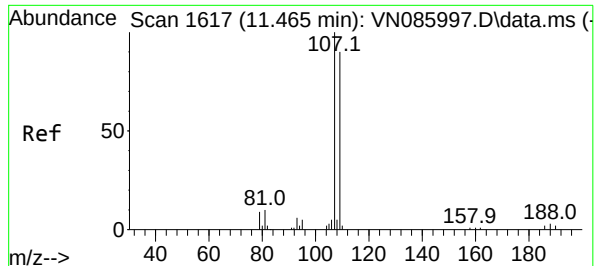
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#60
Dibromochloromethane
Concen: 57.477 ug/l
RT: 11.353 min Scan# 1598
Delta R.T. -0.006 min
Lab File: VN086003.D
Acq: 18 Mar 2025 16:49

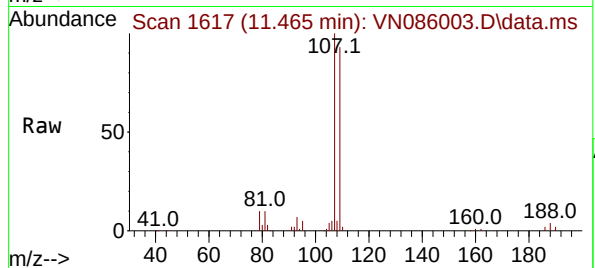
Tgt Ion:129 Resp: 147588
Ion Ratio Lower Upper
129 100
127 77.0 37.8 113.4





#61
1,2-Dibromoethane
Concen: 57.545 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VN086003.D
Acq: 18 Mar 2025 16:49

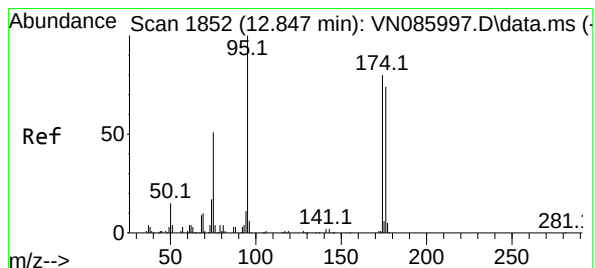
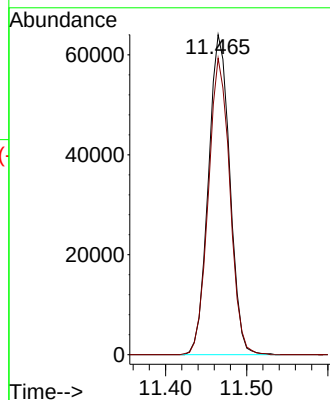
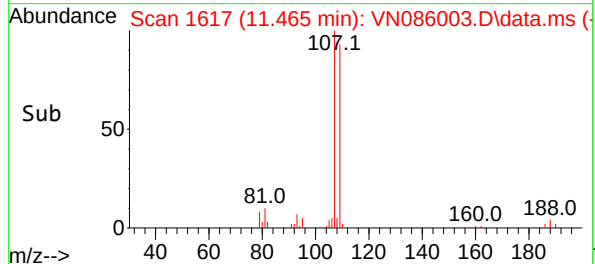
Instrument :
MSVOA_N
ClientSampleId :
ICVVN031825



Tgt Ion:107 Resp: 117559
Ion Ratio Lower Upper
107 100
109 92.7 73.3 109.9

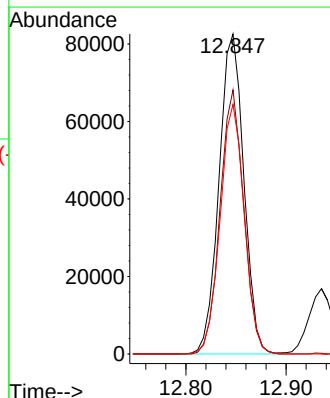
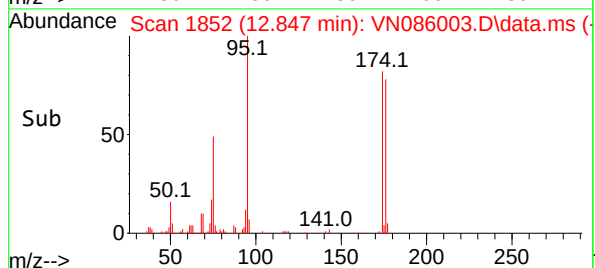
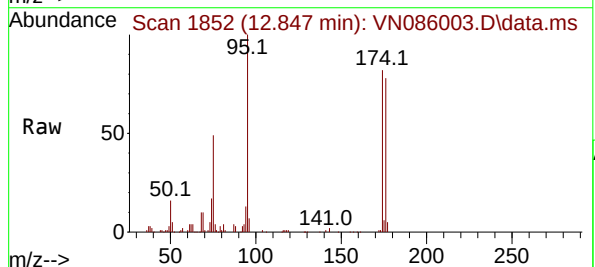
Manual Integrations
APPROVED

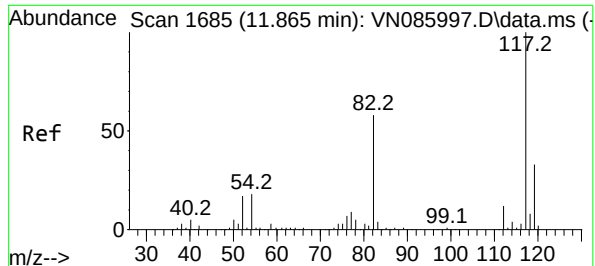
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#62
4-Bromofluorobenzene
Concen: 53.231 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086003.D
Acq: 18 Mar 2025 16:49

Tgt Ion: 95 Resp: 141589
Ion Ratio Lower Upper
95 100
174 78.6 0.0 156.8
176 76.5 0.0 152.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.859 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN086003.D

Acq: 18 Mar 2025 16:49

Instrument :

MSVOA_N

ClientSampleId :

ICVVN031825

Tgt Ion:117 Resp: 27213

Ion Ratio Lower Upper

117 100

82 54.8 46.7 70.1

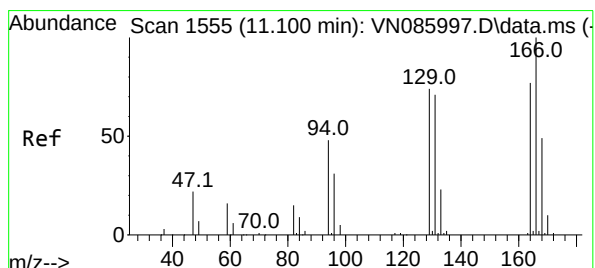
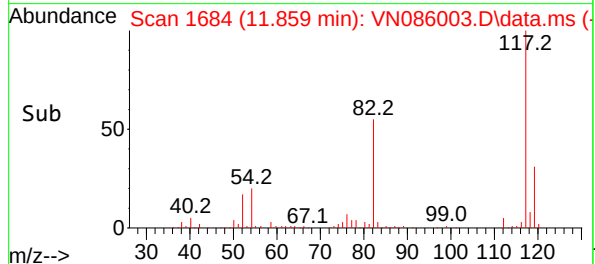
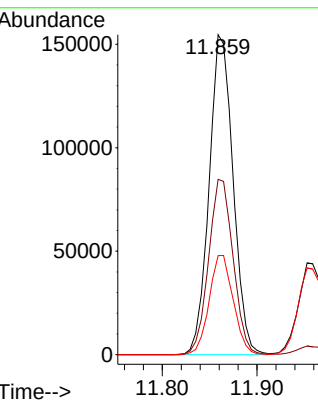
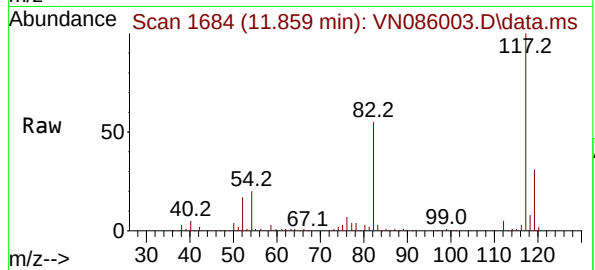
119 31.0 26.5 39.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#64

Tetrachloroethene

Concen: 52.844 ug/l

RT: 11.100 min Scan# 1555

Delta R.T. -0.000 min

Lab File: VN086003.D

Acq: 18 Mar 2025 16:49

Tgt Ion:164 Resp: 114717

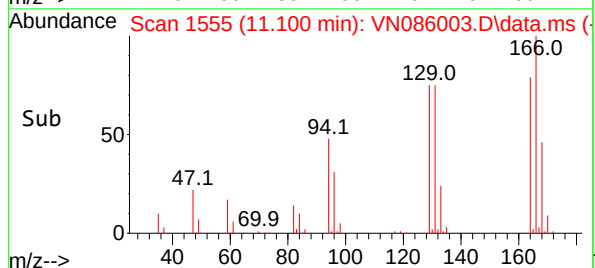
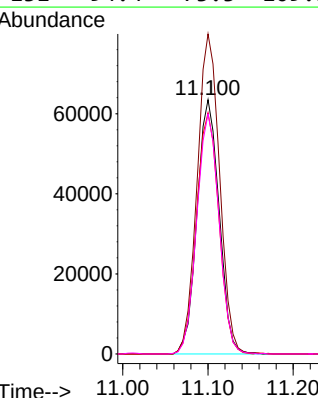
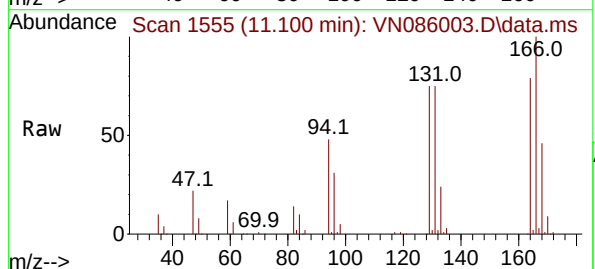
Ion Ratio Lower Upper

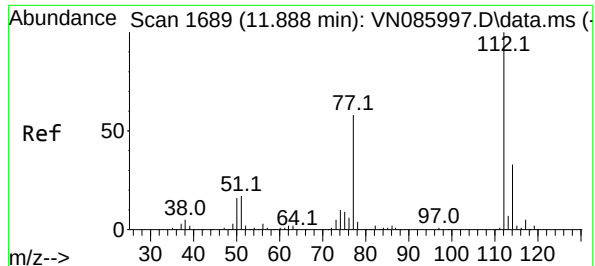
164 100

166 125.8 103.7 155.5

129 94.8 77.1 115.7

131 94.4 73.3 109.9





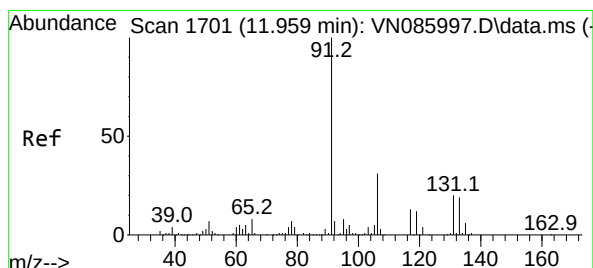
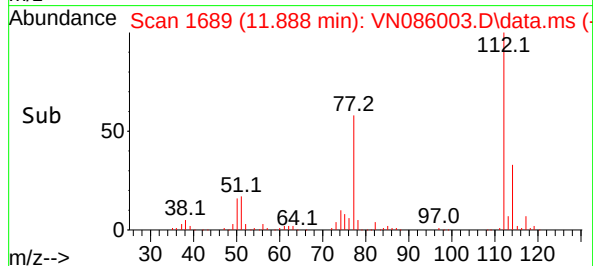
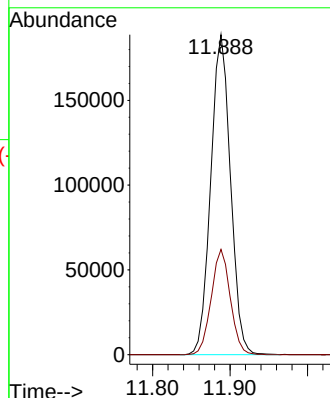
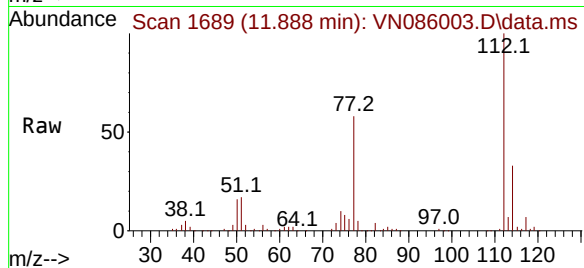
#65
Chlorobenzene
Concen: 53.783 ug/l
RT: 11.888 min Scan# 1112
Delta R.T. -0.000 min
Lab File: VN086003.D
Acq: 18 Mar 2025 16:49

Instrument :
MSVOA_N
ClientSampleId :
ICVVN031825

Tgt Ion:112 Resp: 33492
Ion Ratio Lower Upper
112 100
114 32.9 26.3 39.5

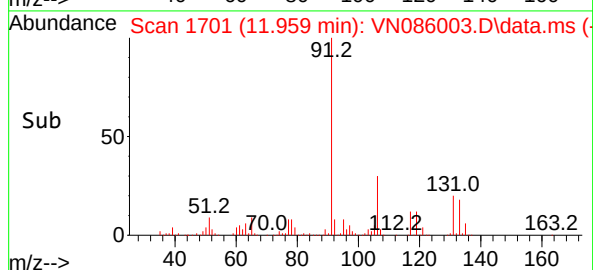
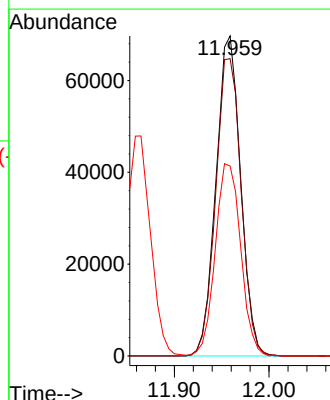
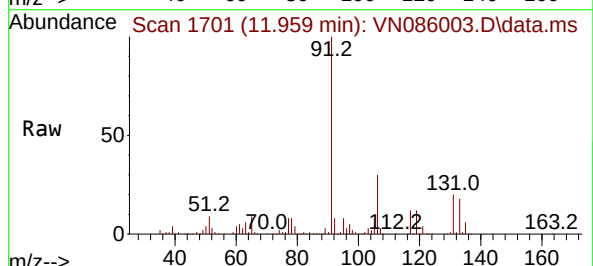
Manual Integrations
APPROVED

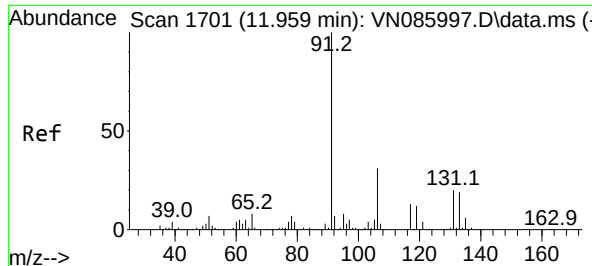
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 54.515 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN086003.D
Acq: 18 Mar 2025 16:49

Tgt Ion:131 Resp: 126196
Ion Ratio Lower Upper
131 100
133 96.1 47.0 141.0
119 62.1 31.4 94.0





#67

Ethyl Benzene

Concen: 59.592 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VN086003.D

Acq: 18 Mar 2025 16:49

Instrument :

MSVOA_N

ClientSampleId :

ICVNVN031825

Tgt Ion: 91 Resp: 593609

Ion Ratio Lower Upper

91 100

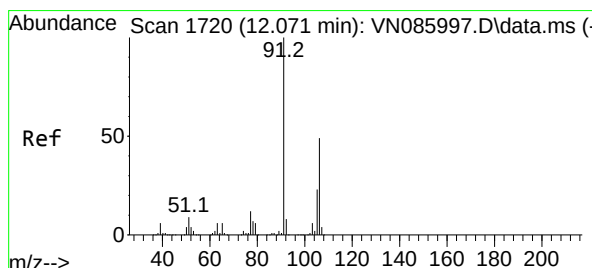
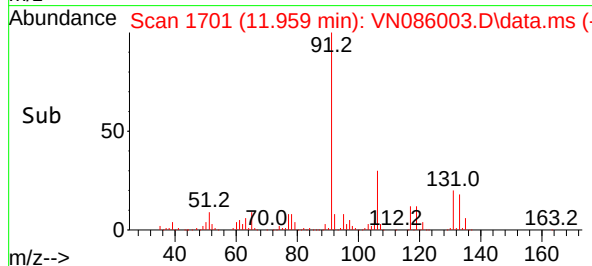
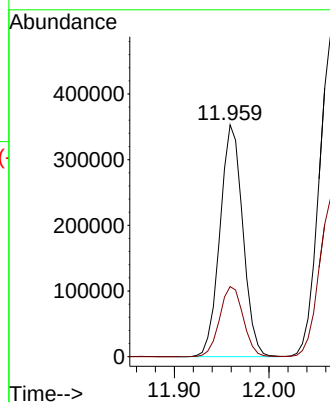
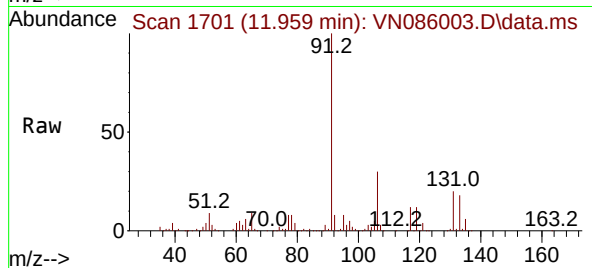
106 30.2 24.5 36.7

Manual Integrations

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Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#68

m/p-Xylenes

Concen: 120.622 ug/l

RT: 12.065 min Scan# 1719

Delta R.T. -0.006 min

Lab File: VN086003.D

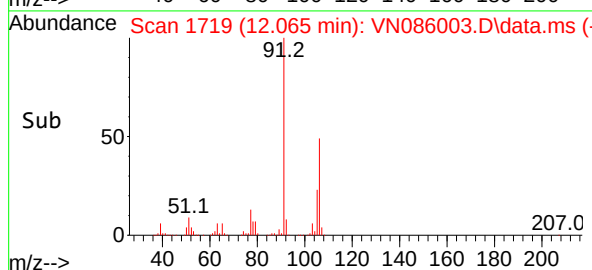
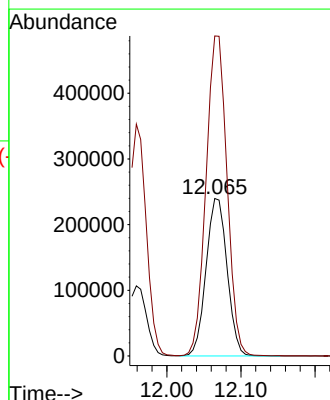
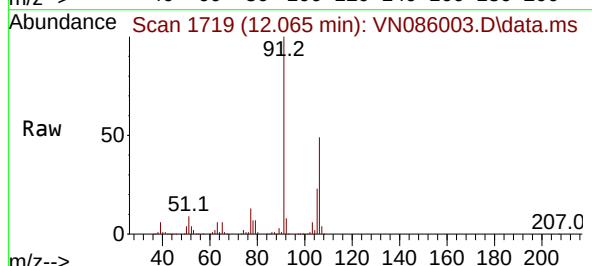
Acq: 18 Mar 2025 16:49

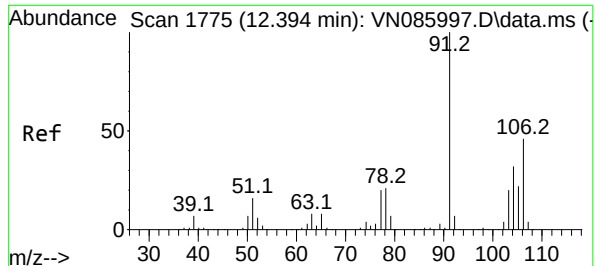
Tgt Ion:106 Resp: 472258

Ion Ratio Lower Upper

106 100

91 203.2 163.9 245.9





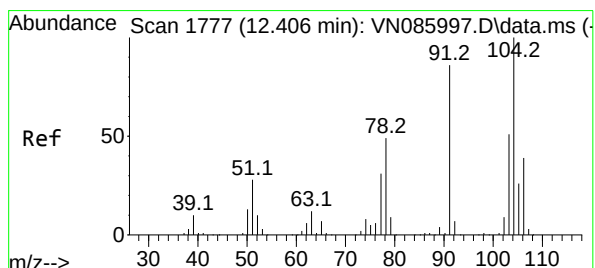
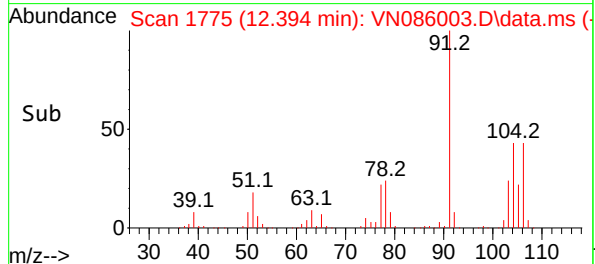
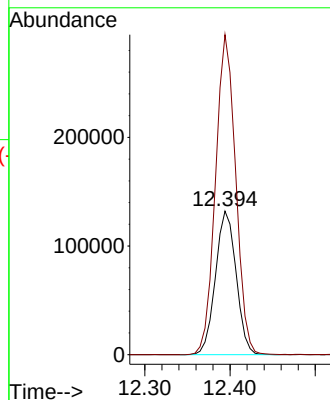
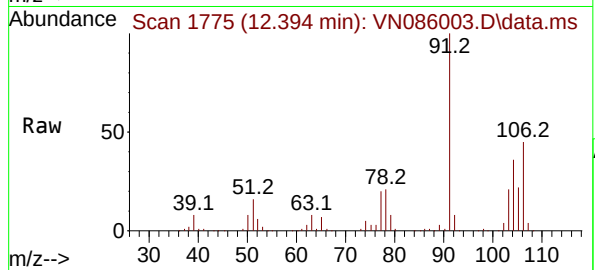
#69
o-Xylene
Concen: 62.069 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. -0.000 min
Lab File: VN086003.D
Acq: 18 Mar 2025 16:49

Instrument :
MSVOA_N
ClientSampleId :
ICVVN031825

Tgt Ion:106 Resp: 223040
Ion Ratio Lower Upper
106 100
91 218.1 109.1 327.2

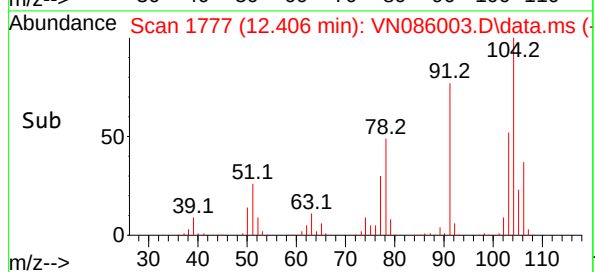
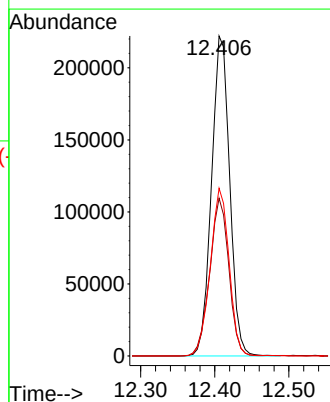
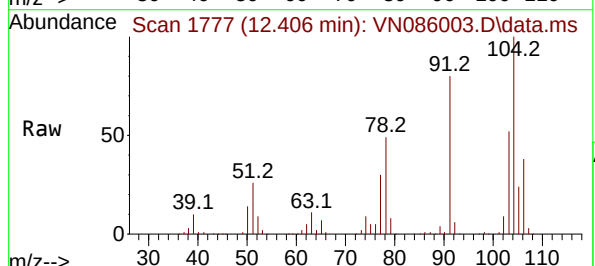
Manual Integrations
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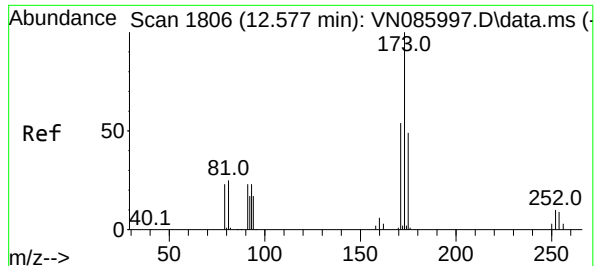
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#70
Styrene
Concen: 61.658 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VN086003.D
Acq: 18 Mar 2025 16:49

Tgt Ion:104 Resp: 378434
Ion Ratio Lower Upper
104 100
78 51.9 41.4 62.2
103 54.2 42.9 64.3





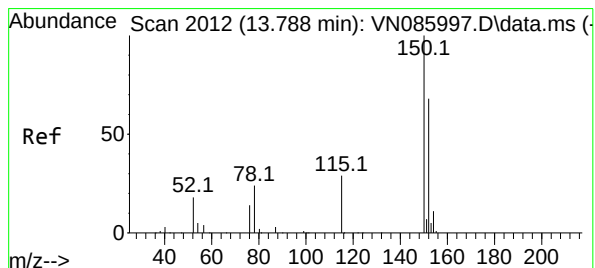
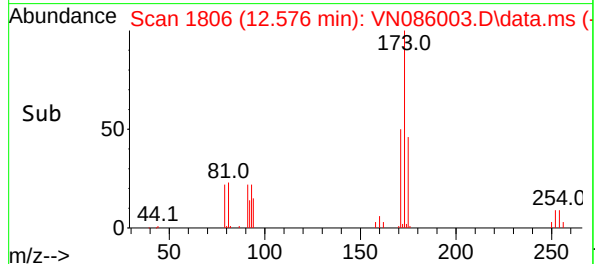
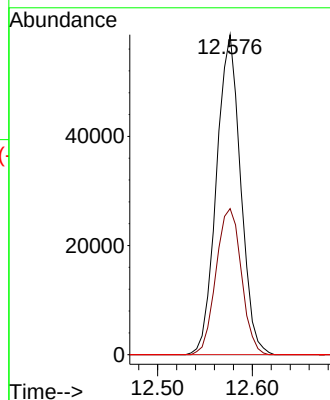
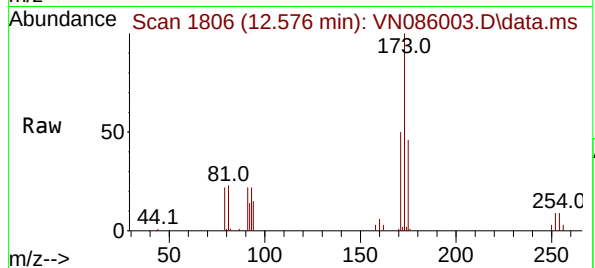
#71
Bromoform
Concen: 53.714 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. -0.000 min
Lab File: VN086003.D
Acq: 18 Mar 2025 16:49

Instrument :
MSVOA_N
ClientSampleId :
ICVVN031825

Tgt Ion:173 Resp: 10394
Ion Ratio Lower Upper
173 100
175 47.9 24.3 73.0
254 0.0 0.0 0.0

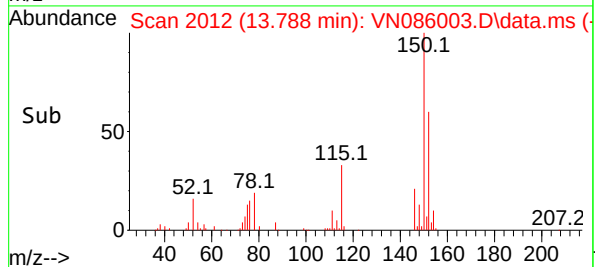
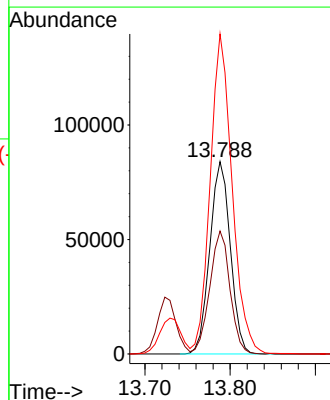
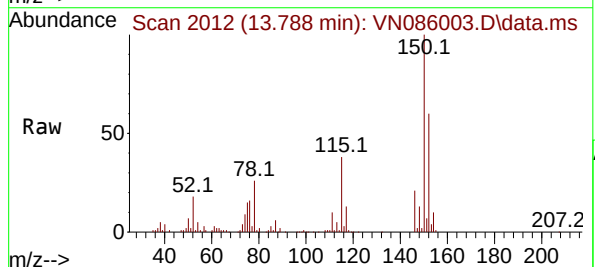
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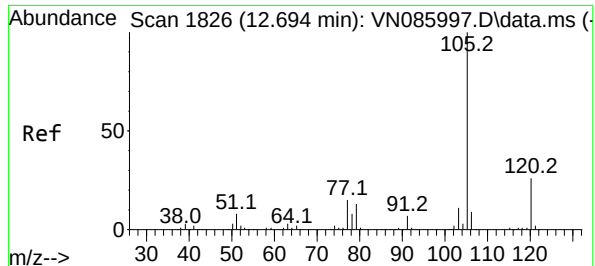
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 1212
Delta R.T. -0.000 min
Lab File: VN086003.D
Acq: 18 Mar 2025 16:49

Tgt Ion:152 Resp: 140427
Ion Ratio Lower Upper
152 100
115 62.9 31.1 93.2
150 178.0 0.0 359.6





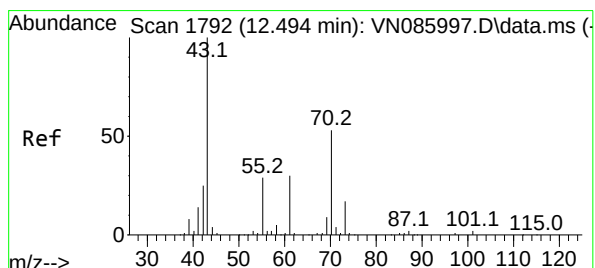
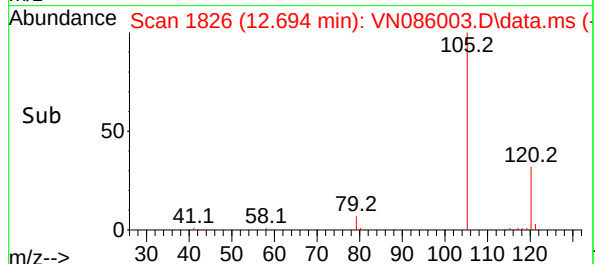
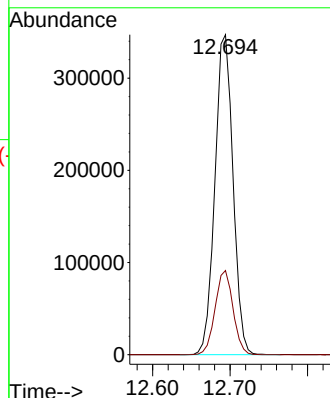
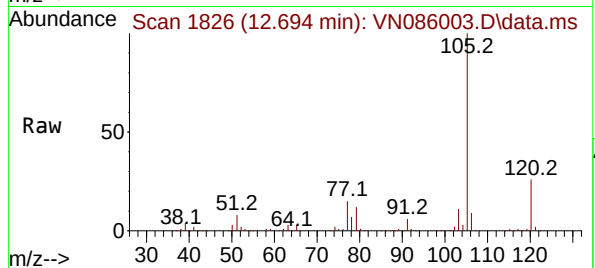
#73
Isopropylbenzene
Concen: 58.664 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. -0.000 min
Lab File: VN086003.D
Acq: 18 Mar 2025 16:49

Instrument :
MSVOA_N
ClientSampleId :
ICVVN031825

Tgt Ion:105 Resp: 56256
Ion Ratio Lower Upper
105 100
120 26.0 13.0 39.0

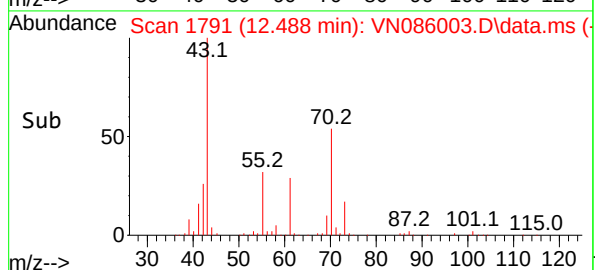
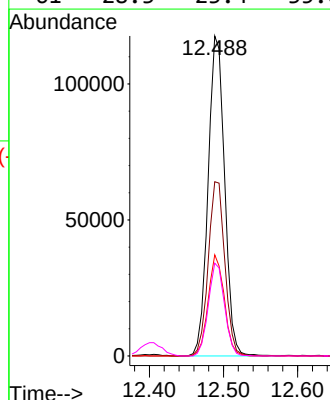
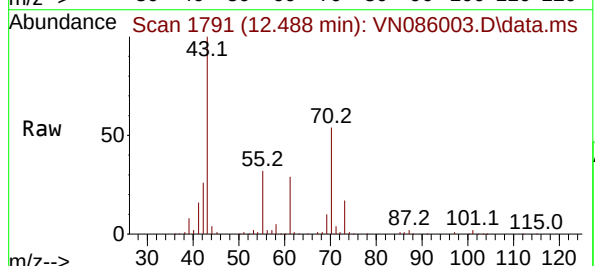
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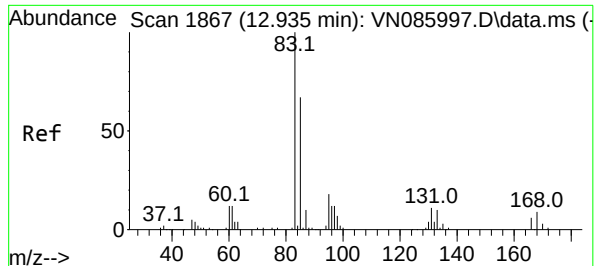
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#74
N-ethyl acetate
Concen: 56.839 ug/l
RT: 12.488 min Scan# 1791
Delta R.T. -0.006 min
Lab File: VN086003.D
Acq: 18 Mar 2025 16:49

Tgt Ion: 43 Resp: 182359
Ion Ratio Lower Upper
43 100
70 54.7 43.0 64.4
55 30.9 23.8 35.8
61 28.3 23.4 35.0





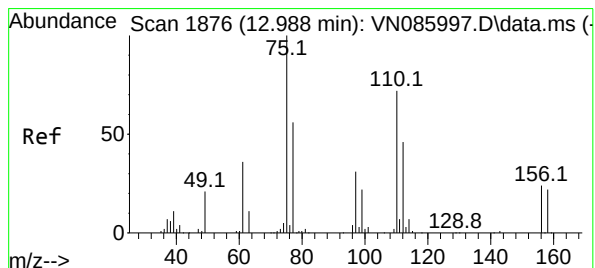
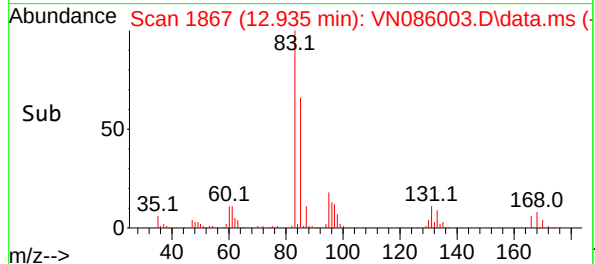
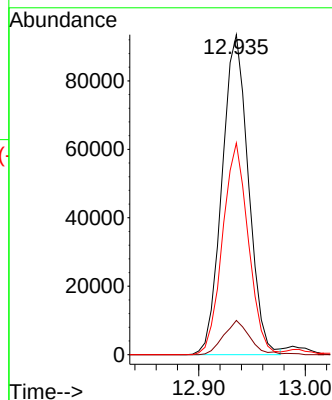
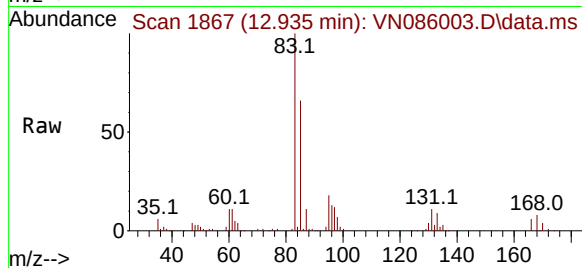
#75
1,1,2,2-Tetrachloroethane
Concen: 49.586 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. -0.000 min
Lab File: VN086003.D
Acq: 18 Mar 2025 16:49

Instrument :
MSVOA_N
ClientSampleId :
ICVVN031825

Tgt Ion: 83 Resp: 16087
Ion Ratio Lower Upper
83 100
131 10.7 5.5 16.5
85 64.7 32.6 97.8

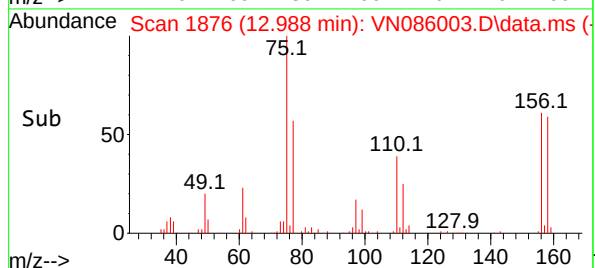
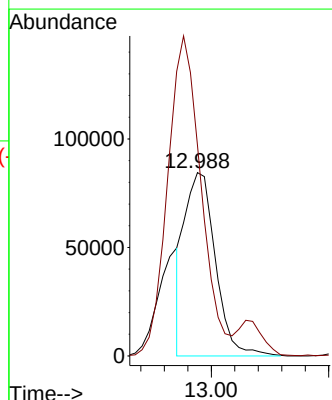
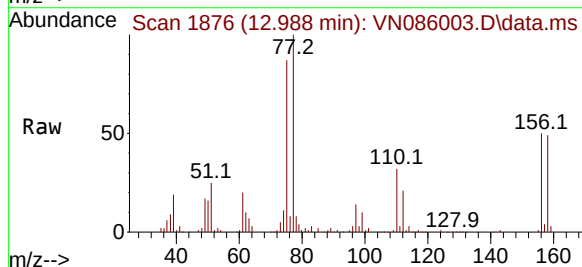
Manual Integrations
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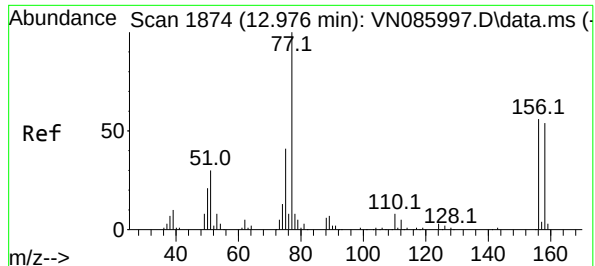
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#76
1,2,3-Trichloropropane
Concen: 48.944 ug/l m
RT: 12.988 min Scan# 1876
Delta R.T. -0.000 min
Lab File: VN086003.D
Acq: 18 Mar 2025 16:49

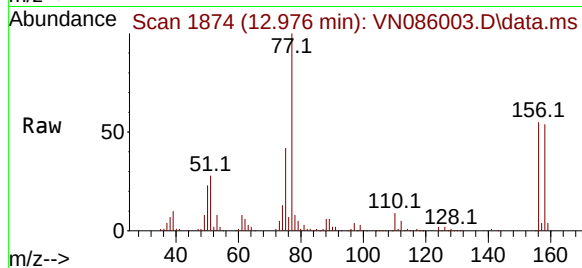
Tgt Ion: 75 Resp: 153873
Ion Ratio Lower Upper
75 100
77 189.6 83.7 251.0





#77
Bromobenzene
Concen: 53.193 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. -0.000 min
Lab File: VN086003.D
Acq: 18 Mar 2025 16:49

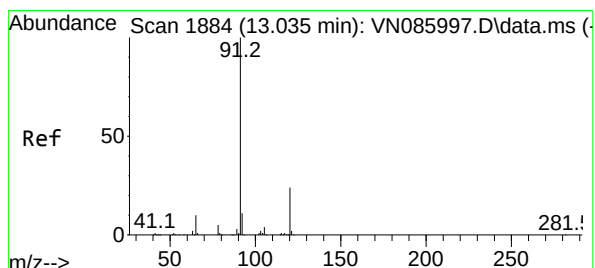
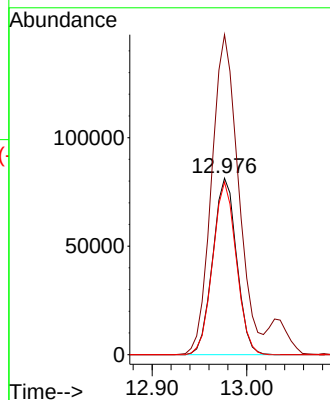
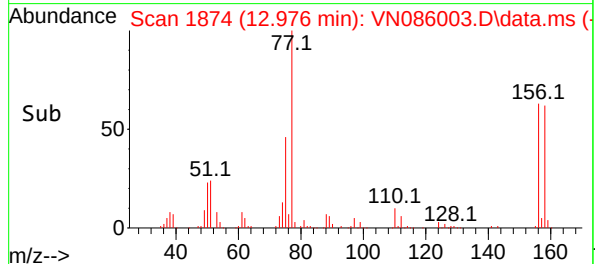
Instrument :
MSVOA_N
ClientSampleId :
ICV031825



Tgt Ion:156 Resp: 142234
Ion Ratio Lower Upper
156 100
77 205.1 104.1 312.3
158 96.8 49.0 147.0

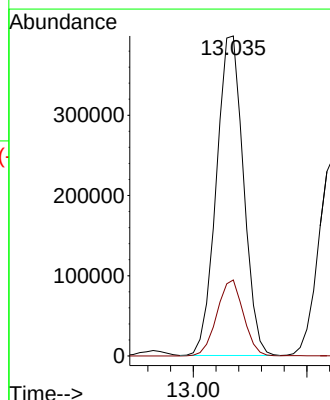
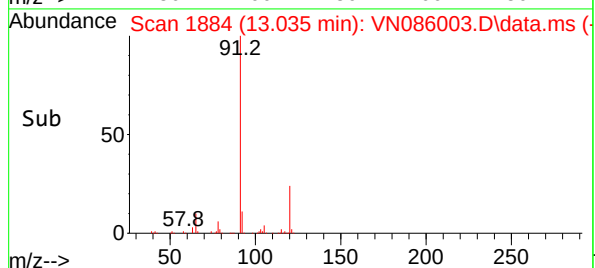
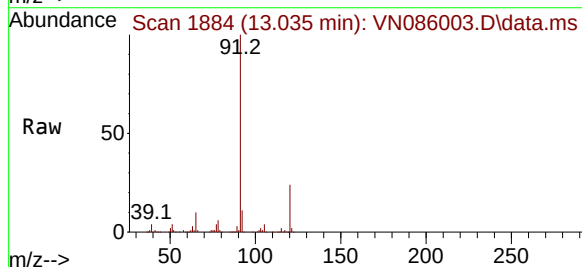
Manual Integrations
APPROVED

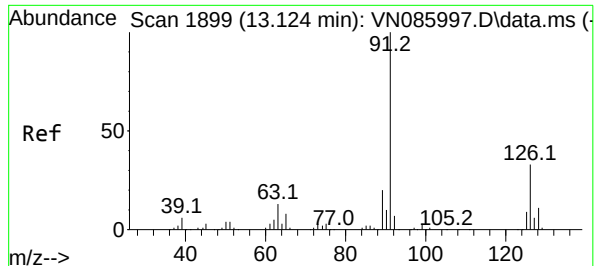
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#78
n-propylbenzene
Concen: 60.807 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN086003.D
Acq: 18 Mar 2025 16:49

Tgt Ion: 91 Resp: 660295
Ion Ratio Lower Upper
91 100
120 23.2 11.7 35.0





#79

2-Chlorotoluene

Concen: 57.461 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. -0.000 min

Lab File: VN086003.D

Acq: 18 Mar 2025 16:49

Instrument :

MSVOA_N

ClientSampleId :

ICVVN031825

Tgt Ion: 91 Resp: 41444

Ion Ratio Lower Upper

91 100

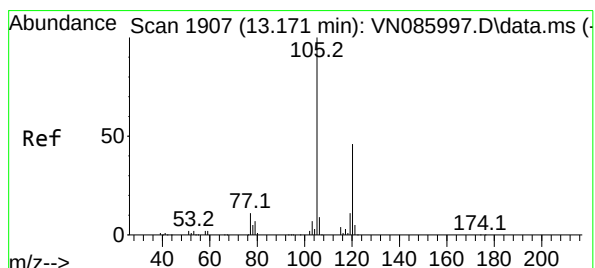
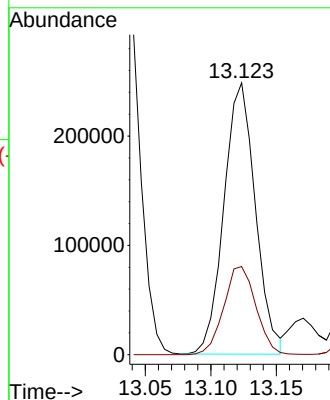
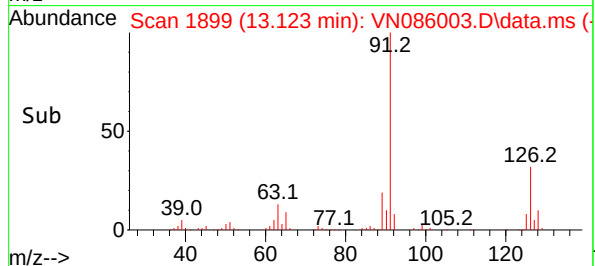
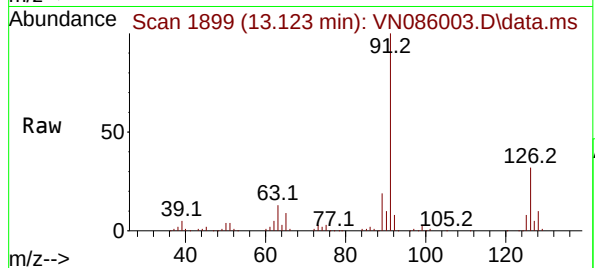
126 33.3 16.4 49.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#80

1,3,5-Trimethylbenzene

Concen: 60.712 ug/l

RT: 13.171 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VN086003.D

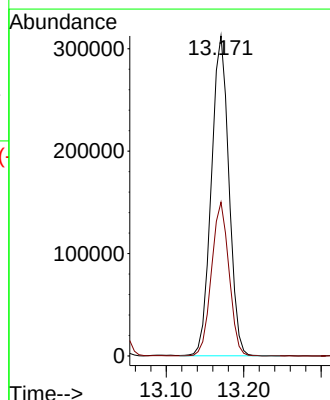
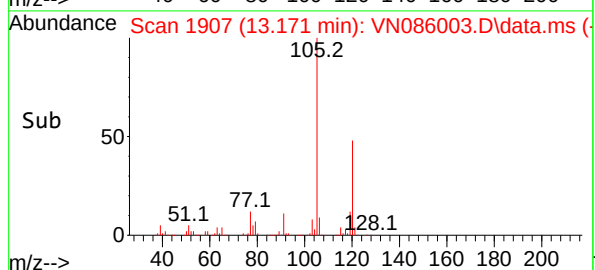
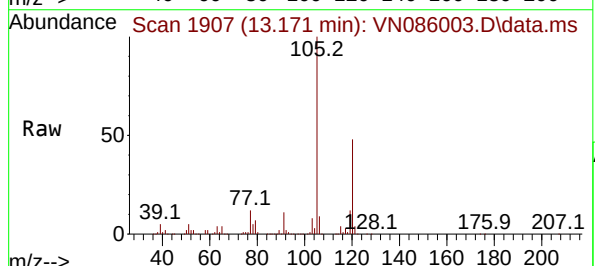
Acq: 18 Mar 2025 16:49

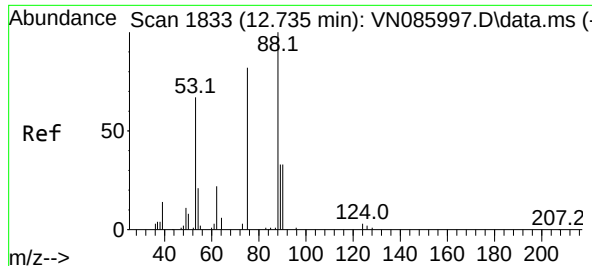
Tgt Ion:105 Resp: 491547

Ion Ratio Lower Upper

105 100

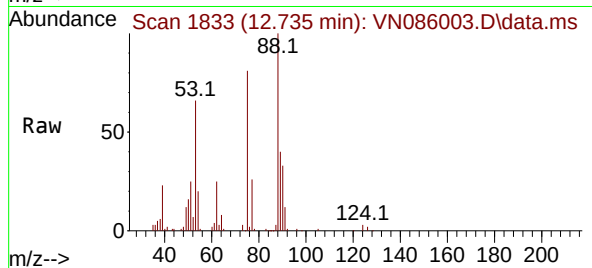
120 47.9 23.7 71.1





#81
trans-1,4-Dichloro-2-butene
Concen: 57.589 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. -0.000 min
Lab File: VN086003.D
Acq: 18 Mar 2025 16:49

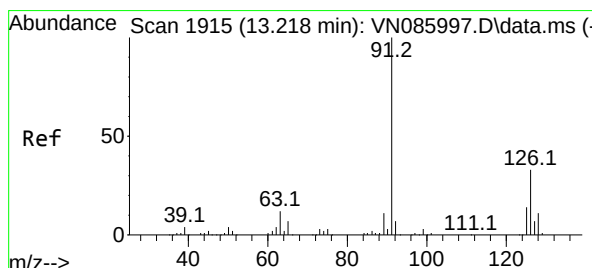
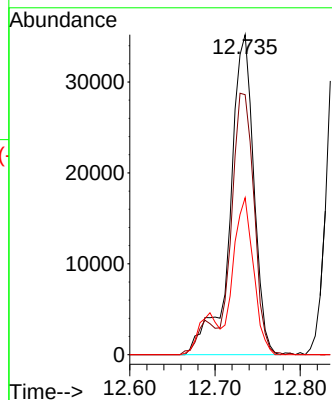
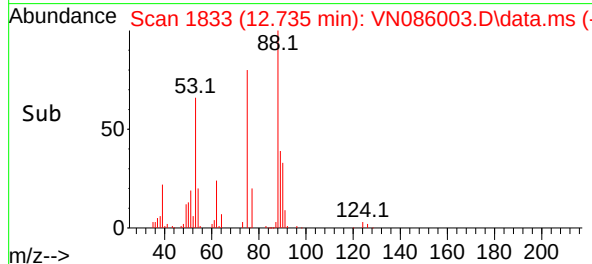
Instrument :
MSVOA_N
ClientSampleId :
ICVVN031825



Tgt Ion: 75 Resp: 6848
Ion Ratio Lower Upper
75 100
53 76.5 66.0 99.0
89 41.9 36.9 55.3

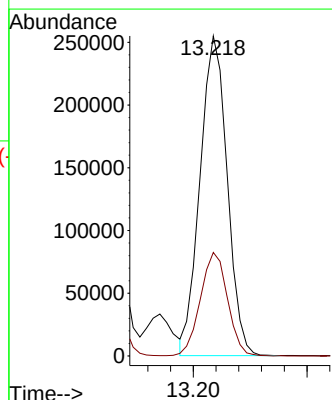
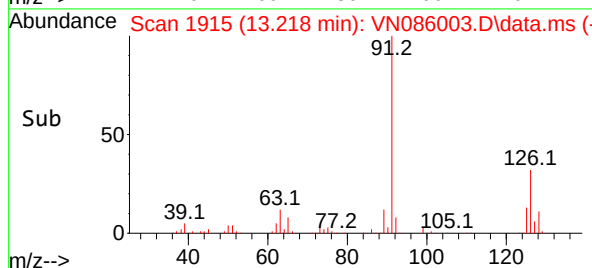
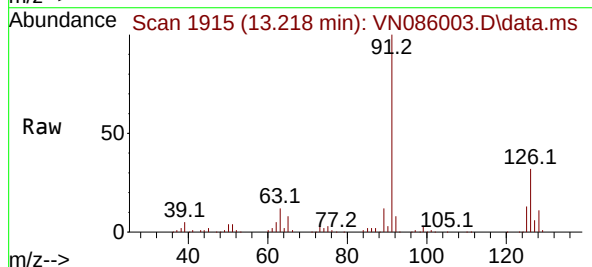
Manual Integrations
APPROVED

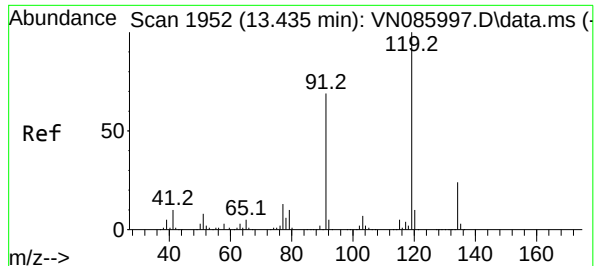
Reviewed By :John Carlone 03/19/2025
Supervised By :Mahesh Dadoda 03/19/2025



#82
4-Chlorotoluene
Concen: 56.898 ug/l
RT: 13.218 min Scan# 1915
Delta R.T. -0.000 min
Lab File: VN086003.D
Acq: 18 Mar 2025 16:49

Tgt Ion: 91 Resp: 422016
Ion Ratio Lower Upper
91 100
126 32.4 16.1 48.2





#83

tert-Butylbenzene

Concen: 58.608 ug/l

RT: 13.435 min Scan# 1952

Delta R.T. -0.000 min

Lab File: VN086003.D

Acq: 18 Mar 2025 16:49

Instrument :

MSVOA_N

ClientSampleId :

ICVVN031825

Tgt Ion:119 Resp: 40583

Ion Ratio Lower Upper

119 100

91 69.7 34.3 102.9

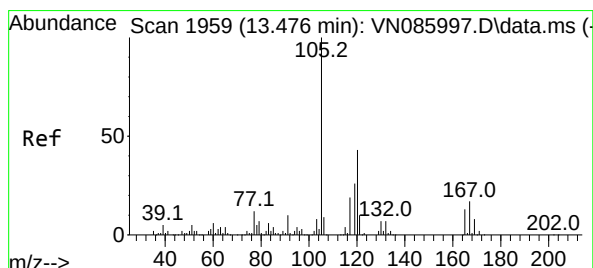
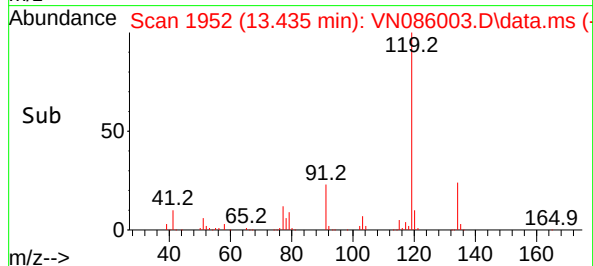
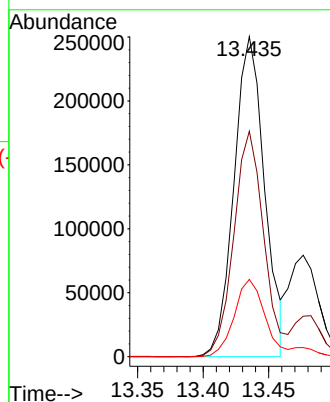
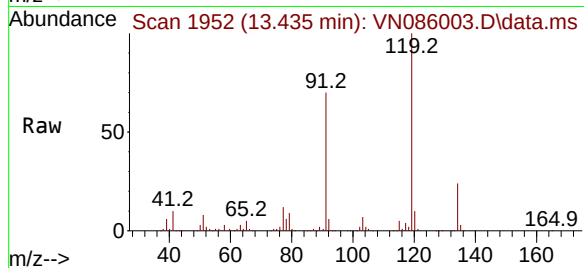
134 24.2 13.5 40.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#84

1,2,4-Trimethylbenzene

Concen: 61.674 ug/l

RT: 13.476 min Scan# 1959

Delta R.T. -0.000 min

Lab File: VN086003.D

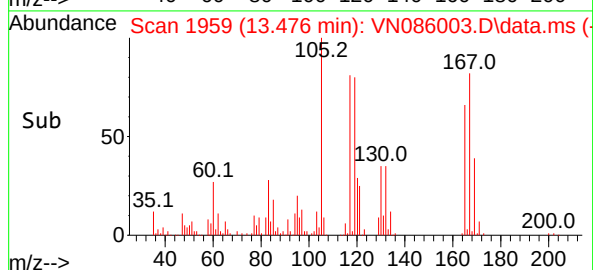
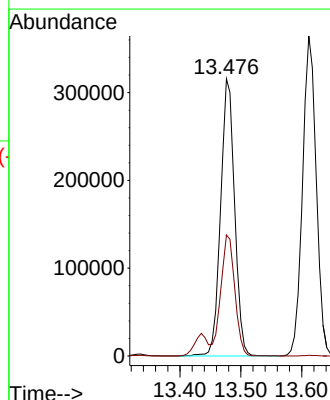
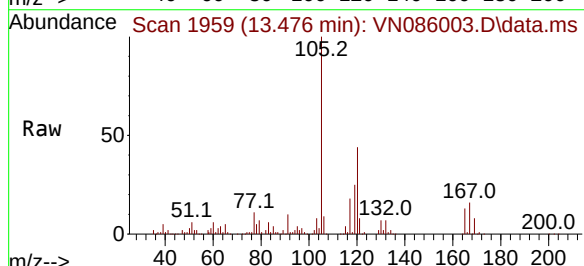
Acq: 18 Mar 2025 16:49

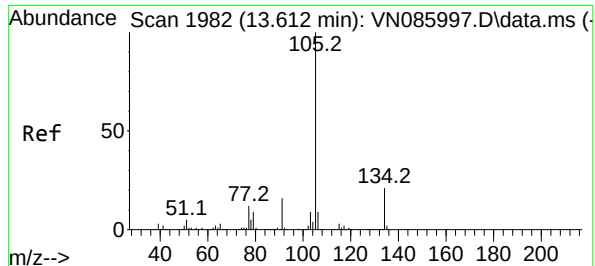
Tgt Ion:105 Resp: 503636

Ion Ratio Lower Upper

105 100

120 44.2 21.9 65.8





#85

sec-Butylbenzene

Concen: 62.874 ug/l

RT: 13.612 min Scan# 1982

Delta R.T. -0.000 min

Lab File: VN086003.D

Acq: 18 Mar 2025 16:49

Instrument :

MSVOA_N

ClientSampleId :

ICVVN031825

Tgt Ion:105 Resp: 567954

Ion Ratio Lower Upper

105 100

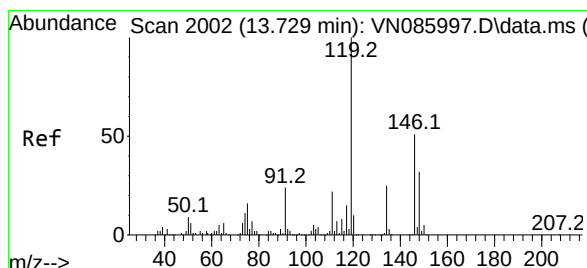
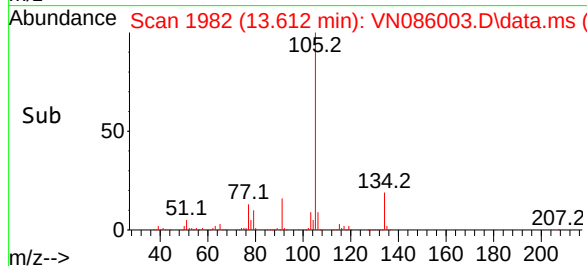
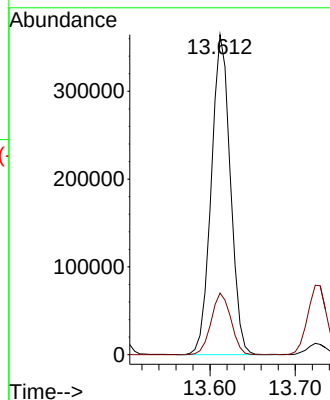
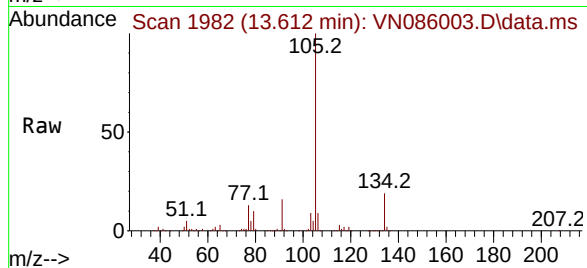
134 19.9 10.1 30.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#86

p-Isopropyltoluene

Concen: 63.821 ug/l

RT: 13.723 min Scan# 2001

Delta R.T. -0.006 min

Lab File: VN086003.D

Acq: 18 Mar 2025 16:49

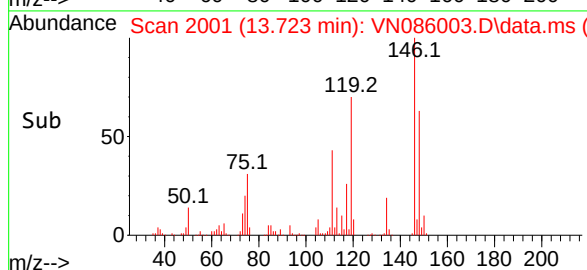
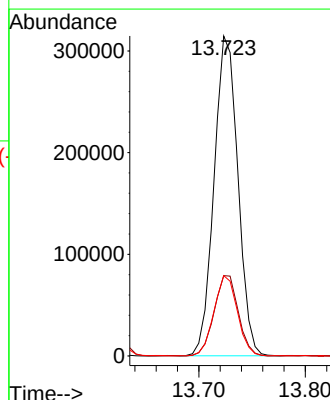
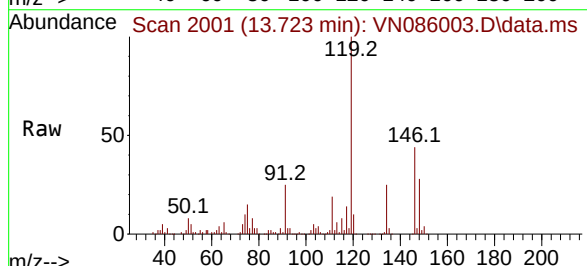
Tgt Ion:119 Resp: 488020

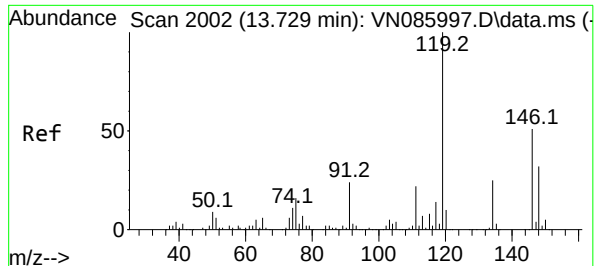
Ion Ratio Lower Upper

119 100

134 25.6 12.6 37.8

91 24.6 12.3 36.8





#87

1,3-Dichlorobenzene

Concen: 55.423 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.000 min

Lab File: VN086003.D

Acq: 18 Mar 2025 16:49

Instrument :

MSVOA_N

ClientSampleId :

ICV031825

Tgt Ion:146 Resp: 267129

Ion Ratio Lower Upper

146 100

111 42.3 21.2 63.6

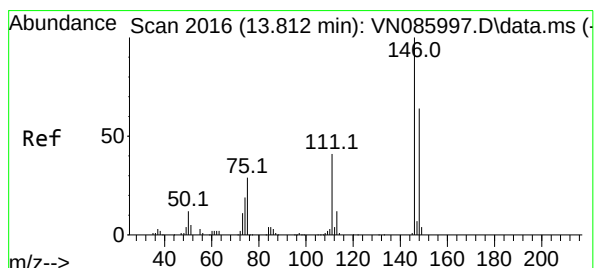
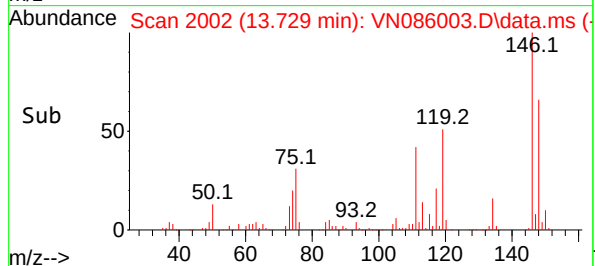
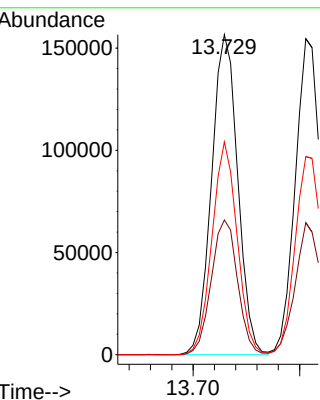
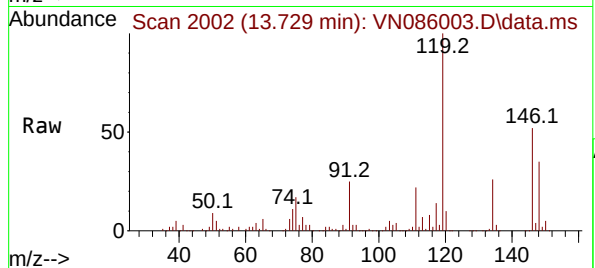
148 63.9 31.8 95.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#88

1,4-Dichlorobenzene

Concen: 51.782 ug/l

RT: 13.806 min Scan# 2015

Delta R.T. -0.006 min

Lab File: VN086003.D

Acq: 18 Mar 2025 16:49

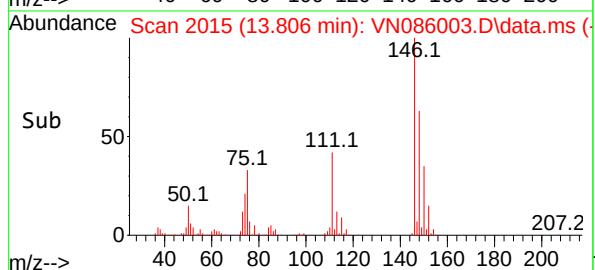
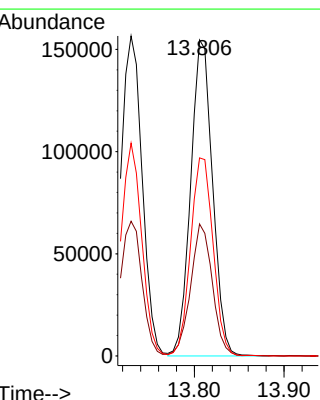
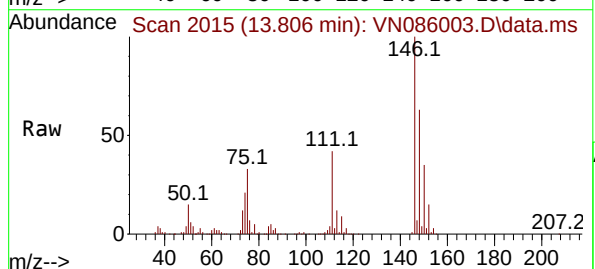
Tgt Ion:146 Resp: 262223

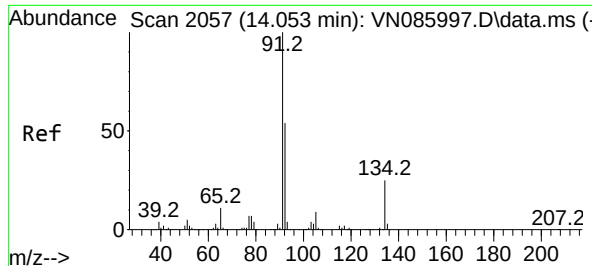
Ion Ratio Lower Upper

146 100

111 41.7 20.4 61.3

148 64.6 32.1 96.5





#89

n-Butylbenzene

Concen: 63.272 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.000 min

Lab File: VN086003.D

Acq: 18 Mar 2025 16:49

Instrument :

MSVOA_N

ClientSampleId :

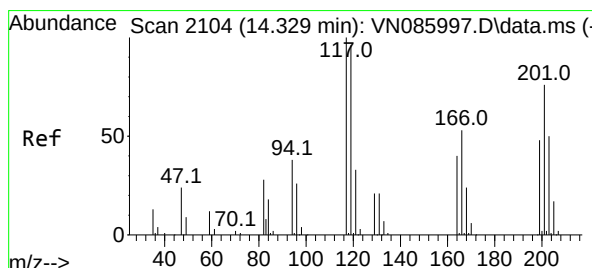
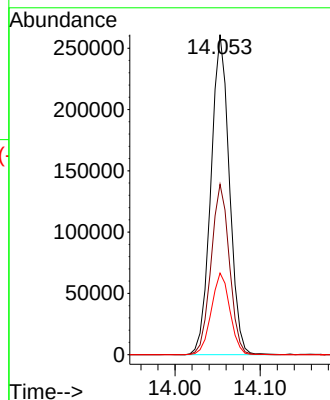
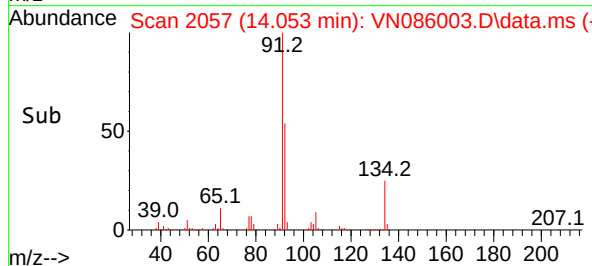
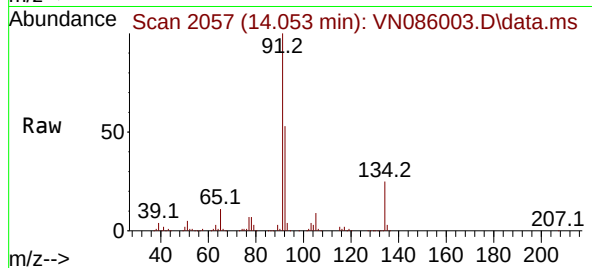
ICVVN031825

Tgt Ion:	91	Resp:	393994
Ion	Ratio	Lower	Upper
91	100		
92	52.7	26.9	80.6
134	25.6	13.0	39.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#90

Hexachloroethane

Concen: 52.727 ug/l

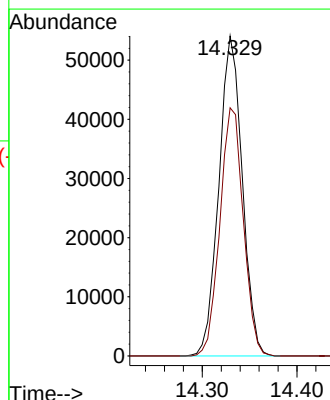
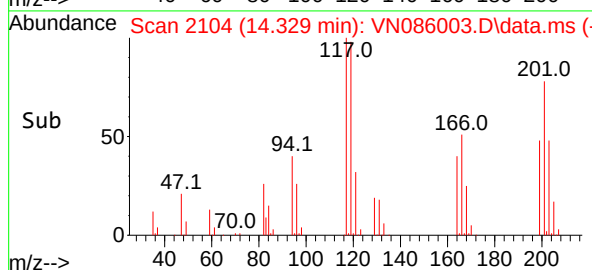
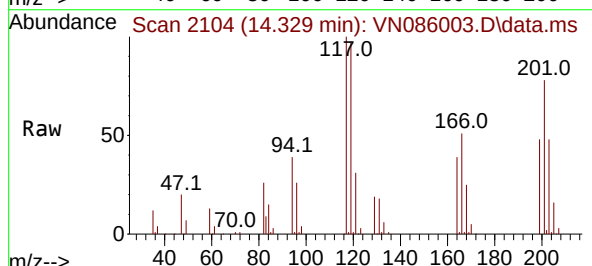
RT: 14.329 min Scan# 2104

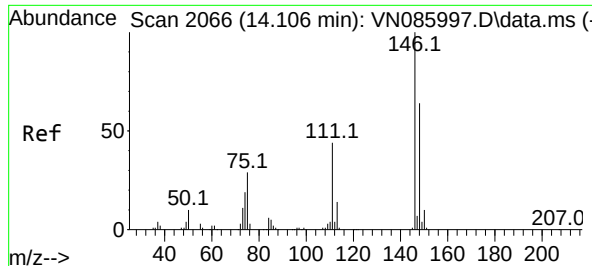
Delta R.T. -0.000 min

Lab File: VN086003.D

Acq: 18 Mar 2025 16:49

Tgt Ion:	117	Resp:	93033
Ion	Ratio	Lower	Upper
117	100		
201	77.5	39.1	117.3





#91

1,2-Dichlorobenzene

Concen: 53.019 ug/l

RT: 14.100 min Scan# 2066

Delta R.T. -0.006 min

Lab File: VN086003.D

Acq: 18 Mar 2025 16:49

Instrument :

MSVOA_N

ClientSampleId :

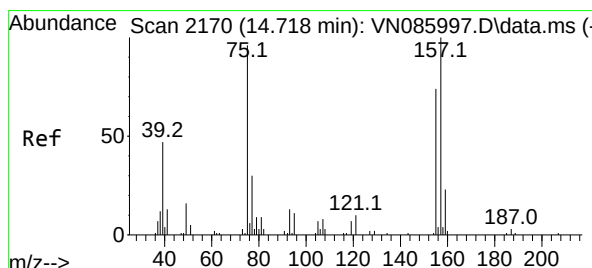
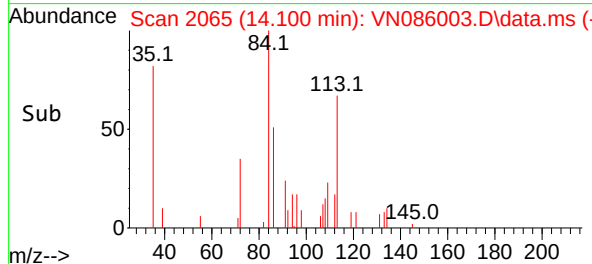
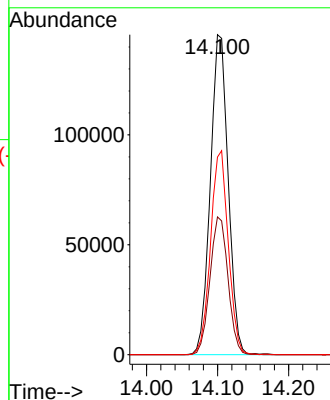
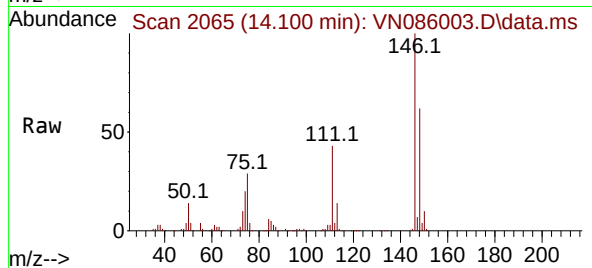
ICV031825

Tgt Ion:	146	Resp:	25403
Ion Ratio	Lower	Upper	
146	100		
111	43.6	22.3	66.8
148	63.3	32.1	96.5

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#92

1,2-Dibromo-3-Chloropropane

Concen: 51.293 ug/l

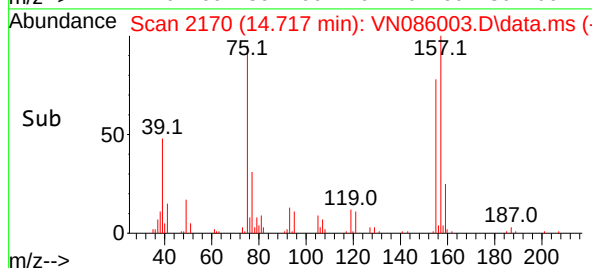
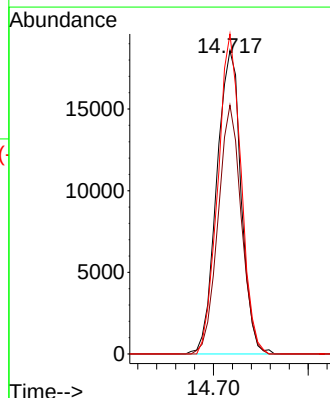
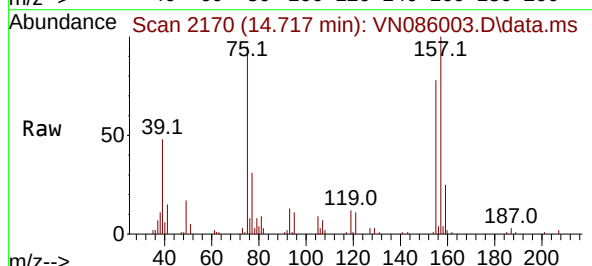
RT: 14.717 min Scan# 2170

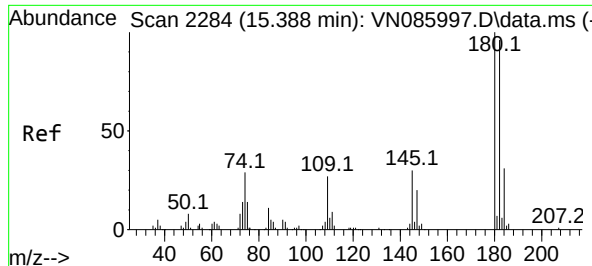
Delta R.T. -0.000 min

Lab File: VN086003.D

Acq: 18 Mar 2025 16:49

Tgt Ion:	75	Resp:	33218
Ion Ratio	Lower	Upper	
75	100		
155	78.3	41.0	123.0
157	100.3	53.7	161.1





#93

1,2,4-Trichlorobenzene

Concen: 54.700 ug/l

RT: 15.388 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN086003.D

Acq: 18 Mar 2025 16:49

Instrument :

MSVOA_N

ClientSampleId :

ICVNV031825

Tgt Ion:180 Resp: 13178

Ion Ratio Lower Upper

180 100

182 95.6 47.0 141.0

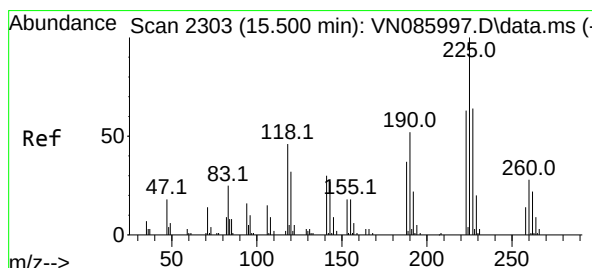
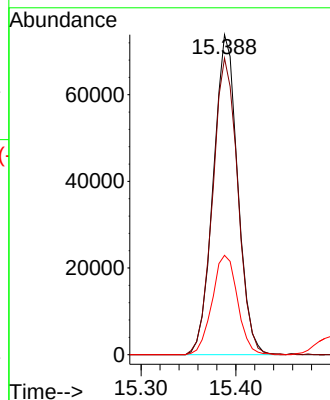
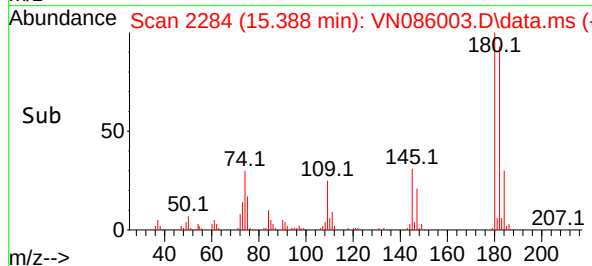
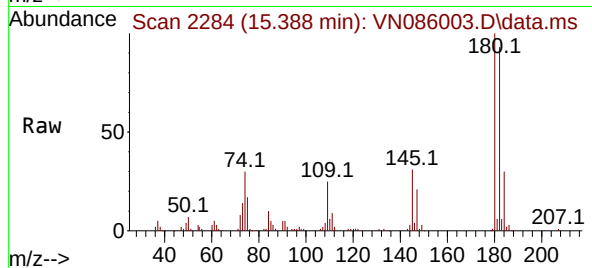
145 32.4 15.5 46.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/19/2025

Supervised By :Mahesh Dadoda 03/19/2025



#94

Hexachlorobutadiene

Concen: 50.380 ug/l

RT: 15.494 min Scan# 2302

Delta R.T. -0.006 min

Lab File: VN086003.D

Acq: 18 Mar 2025 16:49

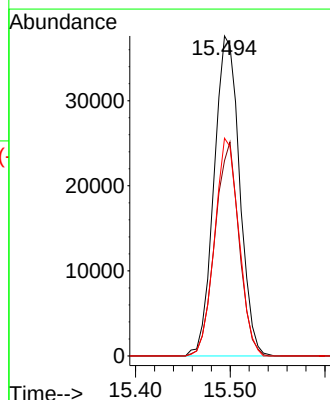
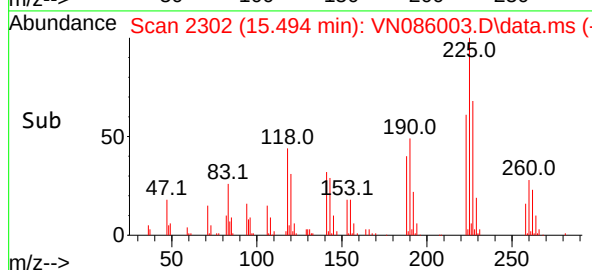
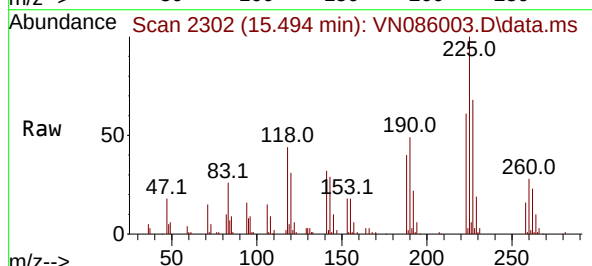
Tgt Ion:225 Resp: 70418

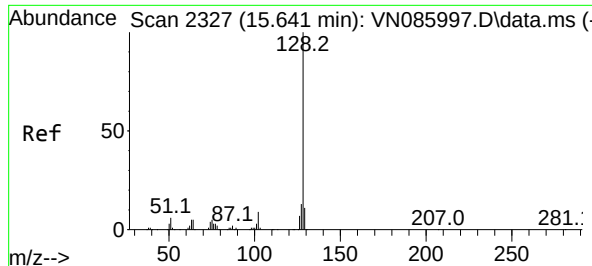
Ion Ratio Lower Upper

225 100

223 63.3 31.3 93.9

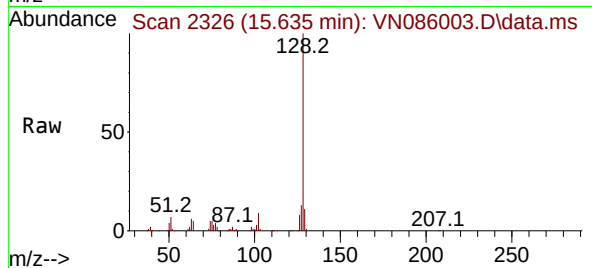
227 64.9 32.1 96.3





#95
Naphthalene
Concen: 54.297 ug/l
RT: 15.635 min Scan# 2327
Delta R.T. -0.006 min
Lab File: VN086003.D
Acq: 18 Mar 2025 16:49

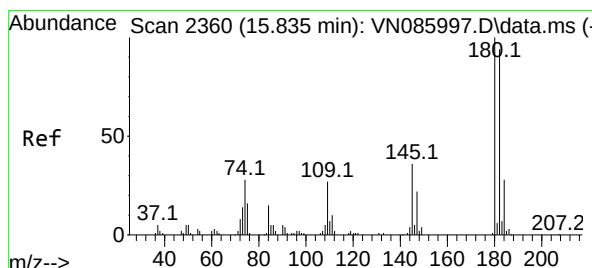
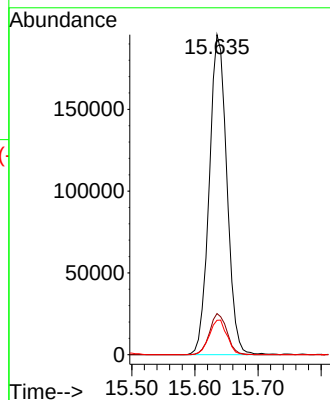
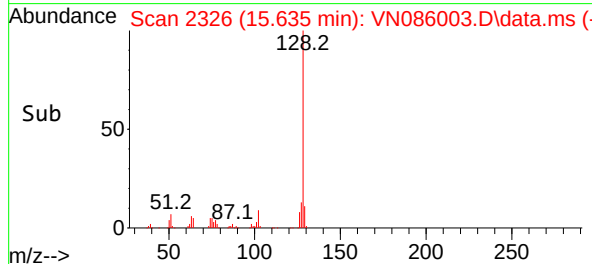
Instrument :
MSVOA_N
ClientSampleId :
ICVVN031825



Tgt Ion:128 Resp: 378782
Ion Ratio Lower Upper
128 100
127 12.8 10.2 15.4
129 10.9 9.0 13.6

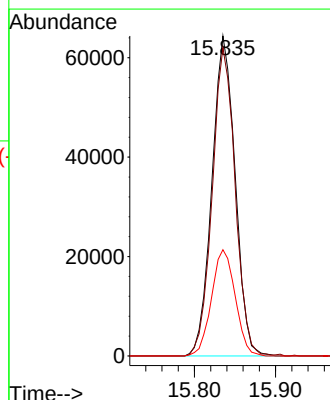
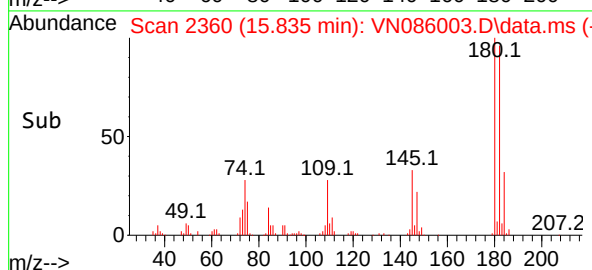
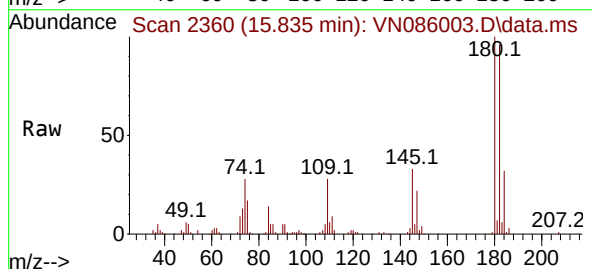
Manual Integrations
APPROVED

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



#96
1,2,3-Trichlorobenzene
Concen: 55.887 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VN086003.D
Acq: 18 Mar 2025 16:49

Tgt Ion:180 Resp: 127760
Ion Ratio Lower Upper
180 100
182 95.3 47.5 142.5
145 33.9 17.7 53.1



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031825\
Data File : VN086003.D
Acq On : 18 Mar 2025 16:49
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN031825

Quant Time: Mar 19 03:39:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 19 03:20:56 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	1.000	1.000	0.0	97	0.00
2 T	Dichlorodifluoromethane	0.662	0.745	-12.5	112	0.00
3 P	Chloromethane	0.581	0.610	-5.0	106	0.00
4 C	Vinyl Chloride	0.594	0.665	-12.0#	109	0.00
5 T	Bromomethane	0.404	0.417	-3.2	106	0.00
6 T	Chloroethane	0.375	0.383	-2.1	113	0.00
7 T	Trichlorofluoromethane	1.067	1.134	-6.3	112	0.00
8 T	Diethyl Ether	0.327	0.369	-12.8	110	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.567	0.601	-6.0	113	0.00
10 T	Methyl Iodide	0.739	0.838	-13.4	112	0.00
11 T	Tert butyl alcohol	0.097	0.092	5.2	95	-0.01
12 CM	1,1-Dichloroethene	0.512	0.587	-14.6#	110	0.00
13 T	Acrolein	0.103	0.113	-9.7	110	0.00
14 T	Allyl chloride	0.639	0.723	-13.1	114	0.00
15 T	Acrylonitrile	0.256	0.266	-3.9	104	0.00
16 T	Acetone	0.209	0.198	5.3	99	0.00
17 T	Carbon Disulfide	1.685	1.713	-1.7	110	0.00
18 T	Methyl Acetate	0.518	0.514	0.8	106	-0.01
19 T	Methyl tert-butyl Ether	1.679	1.965	-17.0	113	0.00
20 T	Methylene Chloride	0.612	0.654	-6.9	112	0.00
21 T	trans-1,2-Dichloroethene	0.560	0.622	-11.1	113	0.00
22 T	Diisopropyl ether	1.362	1.624	-19.2	114	0.00
23 T	Vinyl Acetate	1.032	1.220	-18.2	111	0.00
24 P	1,1-Dichloroethane	1.001	1.099	-9.8	112	0.00
25 T	2-Butanone	0.302	0.306	-1.3	102	0.00
26 T	2,2-Dichloropropane	0.964	1.073	-11.3	112	0.00
27 T	cis-1,2-Dichloroethene	0.636	0.727	-14.3	111	0.00
28 T	Bromochloromethane	0.424	0.371	12.5	92	0.00
29 T	Tetrahydrofuran	0.186	0.201	-8.1	100	0.00
30 C	Chloroform	1.107	1.204	-8.8#	115	0.00
31 T	Cyclohexane	0.853	0.934	-9.5	113	0.00
32 T	1,1,1-Trichloroethane	1.048	1.164	-11.1	114	0.00
33 S	1,2-Dichloroethane-d4	0.685	0.678	1.0	99	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	97	0.00
35 S	Dibromofluoromethane	0.349	0.340	2.6	98	0.00
36 T	1,1-Dichloropropene	0.460	0.529	-15.0	113	0.00
37 T	Ethyl Acetate	0.388	0.394	-1.5	104	0.00
38 T	Carbon Tetrachloride	0.604	0.683	-13.1	114	0.00
39 T	Methylcyclohexane	0.456	0.555	-21.7	113	0.00
40 TM	Benzene	1.443	1.641	-13.7	114	0.00
41 T	Methacrylonitrile	0.185	0.216	-16.8	109	0.00
42 TM	1,2-Dichloroethane	0.503	0.551	-9.5	112	0.00
43 T	Isopropyl Acetate	0.840	0.693	17.5	98	0.00
44 TM	Trichloroethene	0.374	0.398	-6.4	112	0.00
45 C	1,2-Dichloropropane	0.328	0.379	-15.5#	115	0.00
46 T	Dibromomethane	0.258	0.289	-12.0	115	0.00
47 T	Bromodichloromethane	0.539	0.601	-11.5	113	0.00
48 T	Methyl methacrylate	0.277	0.320	-15.5	107	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031825\
Data File : VN086003.D
Acq On : 18 Mar 2025 16:49
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN031825

Quant Time: Mar 19 03:39:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 19 03:20:56 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	0.007	0.007	0.0	98	0.00
50 S	Toluene-d8	1.267	1.311	-3.5	100	0.00
51 T	4-Methyl-2-Pentanone	0.371	0.413	-11.3	104	0.00
52 CM	Toluene	0.885	1.069	-20.8#	113	0.00
53 T	t-1,3-Dichloropropene	0.524	0.625	-19.3	112	0.00
54 T	cis-1,3-Dichloropropene	0.553	0.662	-19.7	113	0.00
55 T	1,1,2-Trichloroethane	0.338	0.379	-12.1	112	0.00
56 T	Ethyl methacrylate	0.463	0.594	-28.3#	109	0.00
57 T	1,3-Dichloropropane	0.574	0.662	-15.3	113	0.00
58 T	2-Chloroethyl Vinyl ether	0.183	0.260	-42.1#	118	0.00
59 T	2-Hexanone	0.270	0.305	-13.0	104	0.00
60 T	Dibromochloromethane	0.436	0.501	-14.9	112	0.00
61 T	1,2-Dibromoethane	0.347	0.399	-15.0	110	0.00
62 S	4-Bromofluorobenzene	0.452	0.481	-6.4	100	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	99	0.00
64 T	Tetrachloroethene	0.399	0.422	-5.8	113	0.00
65 PM	Chlorobenzene	1.144	1.231	-7.6	113	0.00
66 T	1,1,1,2-Tetrachloroethane	0.425	0.464	-9.2	113	0.00
67 C	Ethyl Benzene	1.830	2.181	-19.2#	113	0.00
68 T	m/p-Xylenes	0.719	0.868	-20.7	114	0.00
69 T	o-Xylene	0.660	0.820	-24.2	114	0.00
70 T	Styrene	1.128	1.391	-23.3	113	0.00
71 P	Bromoform	0.356	0.382	-7.3	110	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	102	0.00
73 T	Isopropylbenzene	3.414	4.006	-17.3	113	0.00
74 T	N-amyl acetate	1.142	1.299	-13.7	108	0.00
75 P	1,1,2,2-Tetrachloroethane	1.155	1.146	0.8	111	0.00
76 T	1,2,3-Trichloropropane	1.119	1.096	2.1	96	0.00
77 T	Bromobenzene	0.952	1.013	-6.4	113	0.00
78 T	n-propylbenzene	3.866	4.702	-21.6	114	0.00
79 T	2-Chlorotoluene	2.568	2.951	-14.9	115	0.00
80 T	1,3,5-Trimethylbenzene	2.883	3.500	-21.4	114	0.00
81 T	trans-1,4-Dichloro-2-butene	0.423	0.488	-15.4	120	0.00
82 T	4-Chlorotoluene	2.641	3.005	-13.8	114	0.00
83 T	tert-Butylbenzene	2.466	2.890	-17.2	116	0.00
84 T	1,2,4-Trimethylbenzene	2.908	3.586	-23.3	117	0.00
85 T	sec-Butylbenzene	3.216	4.044	-25.7#	117	0.00
86 T	p-Isopropyltoluene	2.723	3.475	-27.6#	117	0.00
87 T	1,3-Dichlorobenzene	1.716	1.902	-10.8	115	0.00
88 T	1,4-Dichlorobenzene	1.803	1.867	-3.5	114	0.00
89 T	n-Butylbenzene	2.217	2.806	-26.6#	118	0.00
90 T	Hexachloroethane	0.628	0.663	-5.6	116	0.00
91 T	1,2-Dichlorobenzene	1.706	1.809	-6.0	115	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.231	0.237	-2.6	109	0.00
93 T	1,2,4-Trichlorobenzene	0.858	0.938	-9.3	112	0.00
94 T	Hexachlorobutadiene	0.498	0.501	-0.6	115	0.00
95 T	Naphthalene	2.484	2.697	-8.6	105	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031825\
Data File : VN086003.D
Acq On : 18 Mar 2025 16:49
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN031825

Quant Time: Mar 19 03:39:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 19 03:20:56 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	0.814	0.910	-11.8	112	0.00

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031825\
Data File : VN086003.D
Acq On : 18 Mar 2025 16:49
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN031825

Quant Time: Mar 19 03:39:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 19 03:20:56 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	50.000	50.000	0.0	97	0.00
2 T	Dichlorodifluoromethane	50.000	56.232	-12.5	112	0.00
3 P	Chloromethane	50.000	52.508	-5.0	106	0.00
4 C	Vinyl Chloride	50.000	55.971	-11.9#	109	0.00
5 T	Bromomethane	50.000	51.574	-3.1	106	0.00
6 T	Chloroethane	50.000	51.154	-2.3	113	0.00
7 T	Trichlorofluoromethane	50.000	53.112	-6.2	112	0.00
8 T	Diethyl Ether	50.000	56.496	-13.0	110	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	52.975	-6.0	113	0.00
10 T	Methyl Iodide	50.000	56.682	-13.4	112	0.00
11 T	Tert butyl alcohol	250.000	238.378	4.6	95	-0.01
12 CM	1,1-Dichloroethene	50.000	57.321	-14.6#	110	0.00
13 T	Acrolein	250.000	272.978	-9.2	110	0.00
14 T	Allyl chloride	50.000	56.555	-13.1	114	0.00
15 T	Acrylonitrile	250.000	260.076	-4.0	104	0.00
16 T	Acetone	250.000	237.056	5.2	99	0.00
17 T	Carbon Disulfide	50.000	50.845	-1.7	110	0.00
18 T	Methyl Acetate	50.000	49.649	0.7	106	-0.01
19 T	Methyl tert-butyl Ether	50.000	58.538	-17.1	113	0.00
20 T	Methylene Chloride	50.000	53.440	-6.9	112	0.00
21 T	trans-1,2-Dichloroethene	50.000	55.586	-11.2	113	0.00
22 T	Diisopropyl ether	50.000	59.615	-19.2	114	0.00
23 T	Vinyl Acetate	250.000	295.428	-18.2	111	0.00
24 P	1,1-Dichloroethane	50.000	54.884	-9.8	112	0.00
25 T	2-Butanone	250.000	253.710	-1.5	102	0.00
26 T	2,2-Dichloropropane	50.000	55.667	-11.3	112	0.00
27 T	cis-1,2-Dichloroethene	50.000	57.158	-14.3	111	0.00
28 T	Bromochloromethane	50.000	43.664	12.7	92	0.00
29 T	Tetrahydrofuran	250.000	269.263	-7.7	100	0.00
30 C	Chloroform	50.000	54.394	-8.8#	115	0.00
31 T	Cyclohexane	50.000	54.721	-9.4	113	0.00
32 T	1,1,1-Trichloroethane	50.000	55.539	-11.1	114	0.00
33 S	1,2-Dichloroethane-d4	50.000	49.524	1.0	99	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	97	0.00
35 S	Dibromofluoromethane	50.000	48.666	2.7	98	0.00
36 T	1,1-Dichloropropene	50.000	57.540	-15.1	113	0.00
37 T	Ethyl Acetate	50.000	50.756	-1.5	104	0.00
38 T	Carbon Tetrachloride	50.000	56.517	-13.0	114	0.00
39 T	Methylcyclohexane	50.000	60.818	-21.6	113	0.00
40 TM	Benzene	50.000	56.869	-13.7	114	0.00
41 T	Methacrylonitrile	50.000	58.457	-16.9	109	0.00
42 TM	1,2-Dichloroethane	50.000	54.822	-9.6	112	0.00
43 T	Isopropyl Acetate	50.000	41.226	17.5	98	0.00
44 TM	Trichloroethene	50.000	53.255	-6.5	112	0.00
45 C	1,2-Dichloropropane	50.000	57.740	-15.5#	115	0.00
46 T	Dibromomethane	50.000	56.012	-12.0	115	0.00
47 T	Bromodichloromethane	50.000	55.753	-11.5	113	0.00
48 T	Methyl methacrylate	50.000	57.751	-15.5	107	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031825\
Data File : VN086003.D
Acq On : 18 Mar 2025 16:49
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN031825

Quant Time: Mar 19 03:39:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 19 03:20:56 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	1057.815	-5.8	98	0.00
50 S	Toluene-d8	50.000	51.736	-3.5	100	0.00
51 T	4-Methyl-2-Pentanone	250.000	278.467	-11.4	104	0.00
52 CM	Toluene	50.000	60.348	-20.7#	113	0.00
53 T	t-1,3-Dichloropropene	50.000	59.689	-19.4	112	0.00
54 T	cis-1,3-Dichloropropene	50.000	59.921	-19.8	113	0.00
55 T	1,1,2-Trichloroethane	50.000	56.064	-12.1	112	0.00
56 T	Ethyl methacrylate	50.000	55.208	-10.4	109	0.00
57 T	1,3-Dichloropropane	50.000	57.684	-15.4	113	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	306.978	-22.8	118	0.00
59 T	2-Hexanone	250.000	282.228	-12.9	104	0.00
60 T	Dibromochloromethane	50.000	57.477	-15.0	112	0.00
61 T	1,2-Dibromoethane	50.000	57.545	-15.1	110	0.00
62 S	4-Bromofluorobenzene	50.000	53.231	-6.5	100	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	99	0.00
64 T	Tetrachloroethene	50.000	52.844	-5.7	113	0.00
65 PM	Chlorobenzene	50.000	53.783	-7.6	113	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	54.515	-9.0	113	0.00
67 C	Ethyl Benzene	50.000	59.592	-19.2#	113	0.00
68 T	m/p-Xylenes	100.000	120.622	-20.6	114	0.00
69 T	o-Xylene	50.000	62.069	-24.1	114	0.00
70 T	Styrene	50.000	61.658	-23.3	113	0.00
71 P	Bromoform	50.000	53.714	-7.4	110	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	102	0.00
73 T	Isopropylbenzene	50.000	58.664	-17.3	113	0.00
74 T	N-amyl acetate	50.000	56.839	-13.7	108	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	49.586	0.8	111	0.00
76 T	1,2,3-Trichloropropane	50.000	48.944	2.1	96	0.00
77 T	Bromobenzene	50.000	53.193	-6.4	113	0.00
78 T	n-propylbenzene	50.000	60.807	-21.6	114	0.00
79 T	2-Chlorotoluene	50.000	57.461	-14.9	115	0.00
80 T	1,3,5-Trimethylbenzene	50.000	60.712	-21.4	114	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	57.589	-15.2	120	0.00
82 T	4-Chlorotoluene	50.000	56.898	-13.8	114	0.00
83 T	tert-Butylbenzene	50.000	58.608	-17.2	116	0.00
84 T	1,2,4-Trimethylbenzene	50.000	61.674	-23.3	117	0.00
85 T	sec-Butylbenzene	50.000	62.874	-25.7#	117	0.00
86 T	p-Isopropyltoluene	50.000	63.821	-27.6#	117	0.00
87 T	1,3-Dichlorobenzene	50.000	55.423	-10.8	115	0.00
88 T	1,4-Dichlorobenzene	50.000	51.782	-3.6	114	0.00
89 T	n-Butylbenzene	50.000	63.272	-26.5#	118	0.00
90 T	Hexachloroethane	50.000	52.727	-5.5	116	0.00
91 T	1,2-Dichlorobenzene	50.000	53.019	-6.0	115	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	51.293	-2.6	109	0.00
93 T	1,2,4-Trichlorobenzene	50.000	54.700	-9.4	112	0.00
94 T	Hexachlorobutadiene	50.000	50.380	-0.8	115	0.00
95 T	Naphthalene	50.000	54.297	-8.6	105	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031825\
Data File : VN086003.D
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Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN031825

Quant Time: Mar 19 03:39:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 19 03:20:56 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	55.887	-11.8	112	0.00

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



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: ROYF02

Lab Code: CHEM Case No.: Q1664 SAS No.: Q1664 SDG No.: Q1664

Instrument ID: MSVOA_N Calibration Date/Time: 03/28/2025 10:44

Lab File ID: VN086140.D Init. Calib. Date(s): 03/18/2025 03/18/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:44 14:09

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.662	0.585		-11.63	20
Chloromethane	0.581	0.578	0.1	-0.52	20
Vinyl Chloride	0.594	0.629		5.89	20
Bromomethane	0.404	0.391		-3.22	20
Chloroethane	0.375	0.394		5.07	20
Trichlorofluoromethane	1.067	0.977		-8.44	20
1,1,2-Trichlorotrifluoroethane	0.567	0.579		2.12	20
1,1-Dichloroethene	0.512	0.500		-2.34	20
Acetone	0.209	0.199		-4.78	20
Carbon Disulfide	1.685	1.453		-13.77	20
Methyl tert-butyl Ether	1.679	1.680		0.06	20
Methyl Acetate	0.518	0.614		18.53	20
Methylene Chloride	0.612	0.616		0.65	20
trans-1,2-Dichloroethene	0.560	0.561		0.18	20
1,1-Dichloroethane	1.001	1.018	0.1	1.7	20
Cyclohexane	0.853	0.825		-3.28	20
2-Butanone	0.302	0.323		6.95	20
Carbon Tetrachloride	0.604	0.595		-1.49	20
cis-1,2-Dichloroethene	0.636	0.652		2.52	20
Bromochloromethane	0.424	0.430		1.41	20
Chloroform	1.107	1.110		0.27	20
1,1,1-Trichloroethane	1.048	1.006		-4.01	20
Methylcyclohexane	0.456	0.480		5.26	20
Benzene	1.443	1.525		5.68	20
1,2-Dichloroethane	0.503	0.493		-1.99	20
Trichloroethene	0.374	0.359		-4.01	20
1,2-Dichloropropane	0.328	0.368		12.19	20
Bromodichloromethane	0.539	0.559		3.71	20
4-Methyl-2-Pentanone	0.371	0.447		20.49	20
Toluene	0.885	1.009		14.01	20
t-1,3-Dichloropropene	0.524	0.555		5.92	20
cis-1,3-Dichloropropene	0.553	0.597		7.96	20
1,1,2-Trichloroethane	0.338	0.379		12.13	20
2-Hexanone	0.270	0.335		24.07	20
Dibromochloromethane	0.436	0.468		7.34	20
1,2-Dibromoethane	0.347	0.376		8.36	20
Tetrachloroethene	0.399	0.389		-2.51	20
Chlorobenzene	1.144	1.146	0.3	0.17	20

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



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: ROYF02

Lab Code: CHEM Case No.: Q1664 SAS No.: Q1664 SDG No.: Q1664

Instrument ID: MSVOA_N Calibration Date/Time: 03/28/2025 10:44

Lab File ID: VN086140.D Init. Calib. Date(s): 03/18/2025 03/18/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:44 14:09

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.830	1.951		6.61	20
m/p-Xylenes	0.719	0.796		10.71	20
o-Xylene	0.660	0.739		11.97	20
Styrene	1.128	1.296		14.89	20
Bromoform	0.356	0.351	0.1	-1.4	20
Isopropylbenzene	3.414	3.326		-2.58	20
1,1,2,2-Tetrachloroethane	1.155	1.068	0.3	-7.53	20
1,3-Dichlorobenzene	1.716	1.676		-2.33	20
1,4-Dichlorobenzene	1.803	1.622		-10.04	20
1,2-Dichlorobenzene	1.706	1.594		-6.57	20
1,2-Dibromo-3-Chloropropane	0.231	0.206		-10.82	20
1,2,4-Trichlorobenzene	0.858	0.763		-11.07	20
1,2,3-Trichlorobenzene	0.814	0.754		-7.37	20
1,2-Dichloroethane-d4	0.685	0.616		-10.07	20
Dibromofluoromethane	0.349	0.328		-6.02	20
Toluene-d8	1.267	1.250		-1.34	20
4-Bromofluorobenzene	0.452	0.459		1.55	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\VN032825\
 Data File : VN086140.D
 Acq On : 28 Mar 2025 10:44
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations APPROVED

Reviewed By : John Carlone 03/31/2025
 Supervised By : Mahesh Dadoda 03/31/2025

Quant Time: Mar 28 23:36:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 19 03:20:56 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	218266	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	341726	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	321573	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	177687	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.577	65	134346	44.950	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	89.900%
35) Dibromofluoromethane	8.165	113	112230	47.053	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	94.100%
50) Toluene-d8	10.565	98	427108	49.339	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	98.680%
62) 4-Bromofluorobenzene	12.847	95	156781	50.784	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	101.560%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.124	85	127792	44.193	ug/l	97
3) Chloromethane	2.359	50	126147	49.761	ug/l	97
4) Vinyl Chloride	2.512	62	137241	52.948	ug/l	100
5) Bromomethane	2.942	94	85411	48.375	ug/l	99
6) Chloroethane	3.112	64	85977	52.579	ug/l	91
7) Trichlorofluoromethane	3.495	101	213341	45.786	ug/l	98
8) Diethyl Ether	3.959	74	68358	47.923	ug/l	91
9) 1,1,2-Trichlorotrifluo...	4.371	101	126471	51.070	ug/l	98
10) Methyl Iodide	4.583	142	155966	48.335	ug/l	100
11) Tert butyl alcohol	5.524	59	96684	228.480	ug/l	98
12) 1,1-Dichloroethene	4.336	96	109233	48.849	ug/l	98
13) Acrolein	4.183	56	79514	176.175	ug/l	96
14) Allyl chloride	5.018	41	134804	48.322	ug/l	97
15) Acrylonitrile	5.718	53	301308	269.611	ug/l	98
16) Acetone	4.424	43	217644	238.355	ug/l	98
17) Carbon Disulfide	4.712	76	317078	43.117	ug/l	97
18) Methyl Acetate	5.018	43	133940	59.287	ug/l	98
19) Methyl tert-butyl Ether	5.794	73	366744	50.050	ug/l	96
20) Methylene Chloride	5.271	84	134442	50.330	ug/l	94
21) trans-1,2-Dichloroethene	5.783	96	122521	50.136	ug/l	95
22) Diisopropyl ether	6.671	45	334371	56.246	ug/l	98
23) Vinyl Acetate	6.600	43	1219974	270.712	ug/l	98
24) 1,1-Dichloroethane	6.565	63	222267	50.844	ug/l	98
25) 2-Butanone	7.483	43	351958	267.129	ug/l	94
26) 2,2-Dichloropropane	7.488	77	200348	47.604	ug/l	99
27) cis-1,2-Dichloroethene	7.483	96	142345	51.259	ug/l	98
28) Bromochloromethane	7.812	49	93838	50.665	ug/l	96
29) Tetrahydrofuran	7.835	42	237361	291.808	ug/l	95
30) Chloroform	7.965	83	242183	50.121	ug/l	100
31) Cyclohexane	8.253	56	180052	48.348	ug/l	98
32) 1,1,1-Trichloroethane	8.165	97	219467	47.982	ug/l	99
36) 1,1-Dichloropropene	8.371	75	163082	51.925	ug/l	99
37) Ethyl Acetate	7.559	43	140827	53.149	ug/l	99
38) Carbon Tetrachloride	8.359	117	203489	49.277	ug/l	99
39) Methylcyclohexane	9.600	83	163933	52.610	ug/l	94
40) Benzene	8.606	78	521201	52.863	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032825\
 Data File : VN086140.D
 Acq On : 28 Mar 2025 10:44
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/31/2025

Supervised By :Mahesh Dadoda 03/31/2025

Quant Time: Mar 28 23:36:59 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M

Quant Title : SW846 8260

QLast Update : Wed Mar 19 03:20:56 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	72271	57.121	ug/l	96
42) 1,2-Dichloroethane	8.665	62	168370	49.009	ug/l	98
43) Isopropyl Acetate	8.682	43	233419	40.654	ug/l	98
44) Trichloroethene	9.353	130	122575	47.968	ug/l	99
45) 1,2-Dichloropropane	9.618	63	125621	56.019	ug/l	97
46) Dibromomethane	9.706	93	94345	53.497	ug/l	98
47) Bromodichloromethane	9.882	83	191158	51.864	ug/l	99
48) Methyl methacrylate	9.677	41	108367	57.195	ug/l	98
49) 1,4-Dioxane	9.688	88	53208	1187.958	ug/l	93
51) 4-Methyl-2-Pentanone	10.441	43	764611	301.956	ug/l	98
52) Toluene	10.629	92	344803	56.980	ug/l	97
53) t-1,3-Dichloropropene	10.835	75	189701	52.997	ug/l	98
54) cis-1,3-Dichloropropene	10.312	75	204166	54.061	ug/l	99
55) 1,1,2-Trichloroethane	11.012	97	129344	56.002	ug/l	95
56) Ethyl methacrylate	10.871	69	189636	52.177	ug/l	98
57) 1,3-Dichloropropane	11.159	76	214007	54.554	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.159	63	407237	286.551	ug/l	97
59) 2-Hexanone	11.194	43	572758	310.491	ug/l	97
60) Dibromochloromethane	11.359	129	160006	53.688	ug/l	97
61) 1,2-Dibromoethane	11.471	107	128563	54.221	ug/l	98
64) Tetrachloroethene	11.100	164	125011	48.733	ug/l	98
65) Chlorobenzene	11.888	112	368410	50.066	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.959	131	137086	50.116	ug/l	97
67) Ethyl Benzene	11.959	91	627394	53.301	ug/l	99
68) m/p-Xylenes	12.070	106	511977	110.663	ug/l	98
69) o-Xylene	12.394	106	237775	55.997	ug/l	97
70) Styrene	12.412	104	416893	57.481	ug/l	98
71) Bromoform	12.576	173	112868	49.359	ug/l #	99
73) Isopropylbenzene	12.694	105	590904	48.698	ug/l	98
74) N-amyl acetate	12.494	43	207590	51.135	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.935	83	189713	46.214	ug/l	99
76) 1,2,3-Trichloropropane	12.994	75	180572m	45.392	ug/l	
77) Bromobenzene	12.976	156	158851	46.950	ug/l	99
78) n-propylbenzene	13.035	91	712397	51.848	ug/l	100
79) 2-Chlorotoluene	13.123	91	447666	49.052	ug/l	99
80) 1,3,5-Trimethylbenzene	13.170	105	532182	51.948	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.735	75	70514	46.864	ug/l	98
82) 4-Chlorotoluene	13.217	91	462335	49.263	ug/l	98
83) tert-Butylbenzene	13.435	119	420738	48.020	ug/l	99
84) 1,2,4-Trimethylbenzene	13.482	105	540255	52.285	ug/l	99
85) sec-Butylbenzene	13.612	105	602307	52.695	ug/l	100
86) p-Isopropyltoluene	13.729	119	517398	53.474	ug/l	98
87) 1,3-Dichlorobenzene	13.729	146	297823	48.834	ug/l	99
88) 1,4-Dichlorobenzene	13.812	146	288219	44.981	ug/l	99
89) n-Butylbenzene	14.053	91	399115	50.654	ug/l	100
90) Hexachloroethane	14.329	117	102546	45.931	ug/l	96
91) 1,2-Dichlorobenzene	14.106	146	283182	46.709	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	36644	44.718	ug/l	97
93) 1,2,4-Trichlorobenzene	15.388	180	135530	44.459	ug/l	100
94) Hexachlorobutadiene	15.500	225	72323	40.893	ug/l	100
95) Naphthalene	15.641	128	397897	45.076	ug/l	99
96) 1,2,3-Trichlorobenzene	15.841	180	134039	46.339	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032825\
Data File : VN086140.D
Acq On : 28 Mar 2025 10:44
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025

Quant Time: Mar 28 23:36:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 19 03:20:56 2025
Response via : Initial Calibration

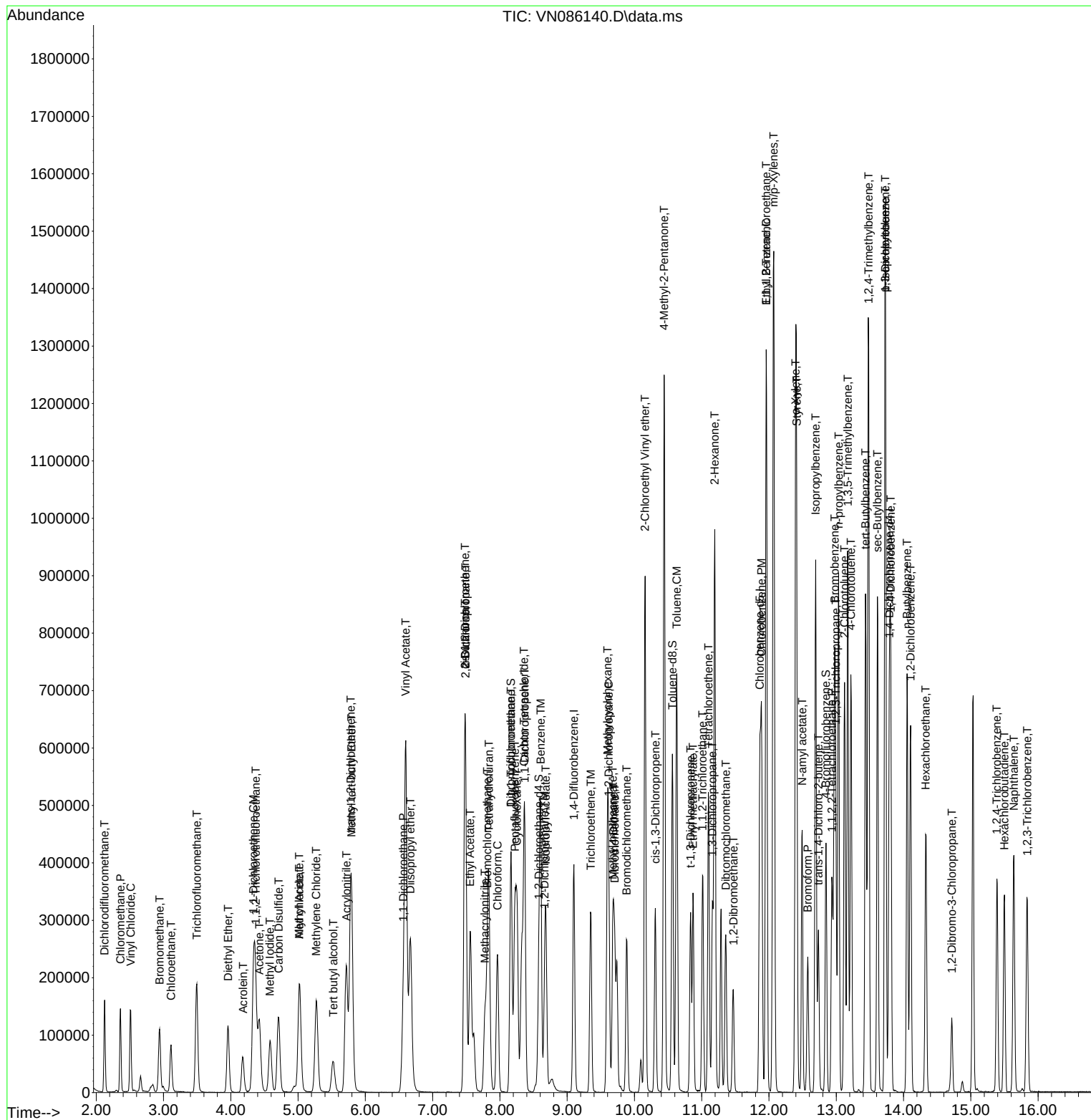
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

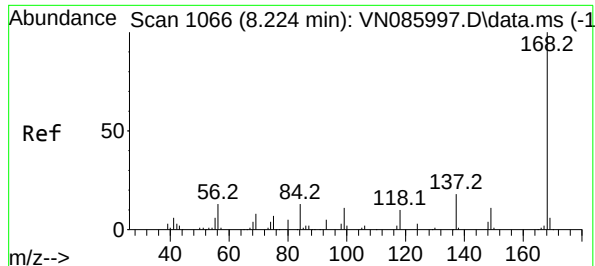
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

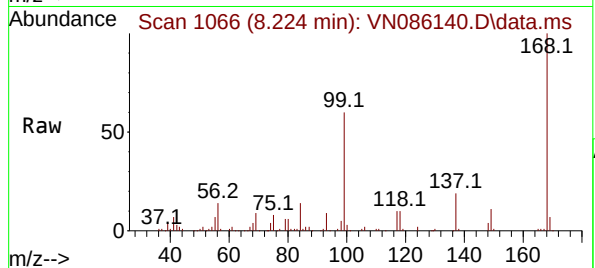
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN086140.D
Acq: 28 Mar 2025 10:44

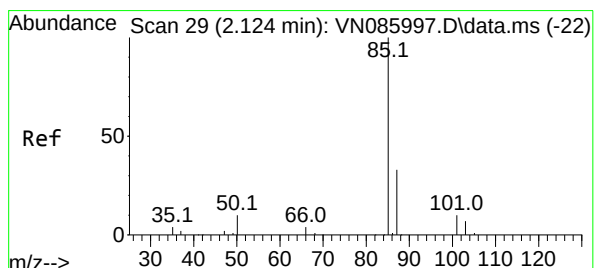
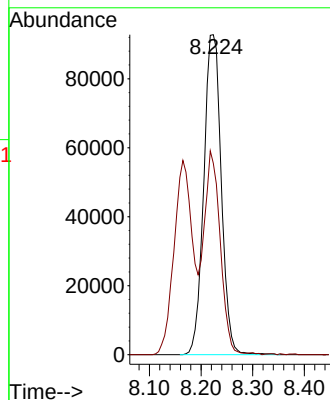
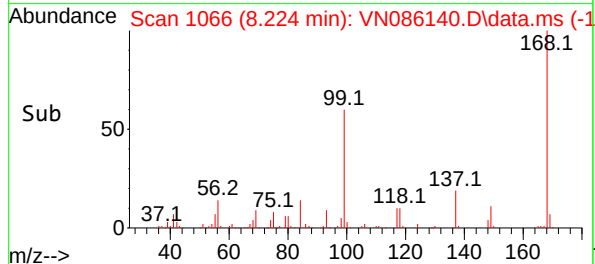
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion:168 Resp: 218260
Ion Ratio Lower Upper
168 100
99 59.5 49.4 74.2

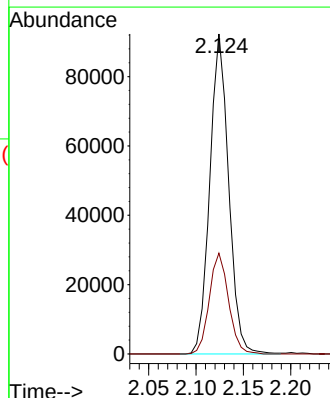
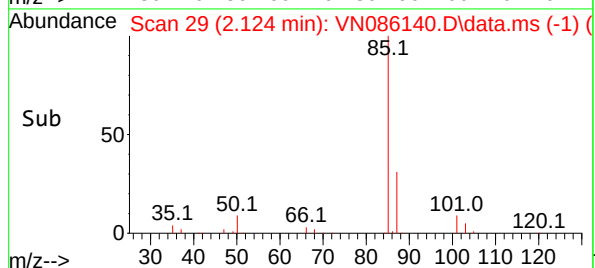
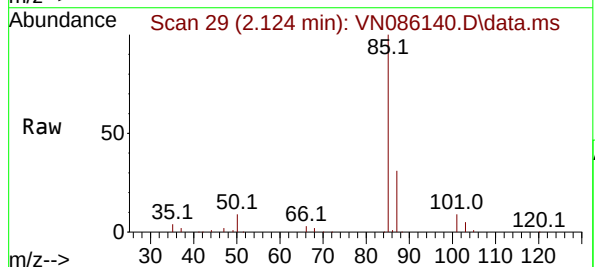
Manual Integrations
APPROVED

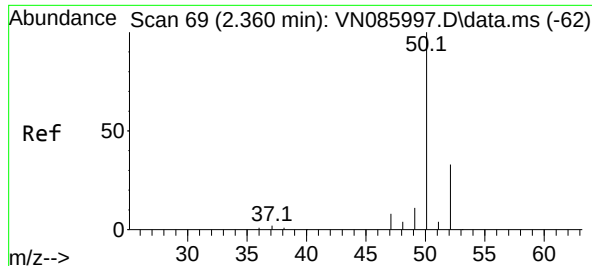
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#2
Dichlorodifluoromethane
Concen: 44.193 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN086140.D
Acq: 28 Mar 2025 10:44

Tgt Ion: 85 Resp: 127792
Ion Ratio Lower Upper
85 100
87 31.5 16.5 49.5





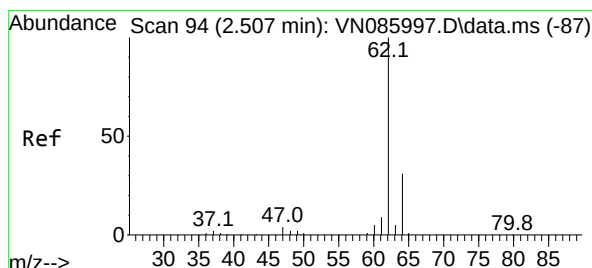
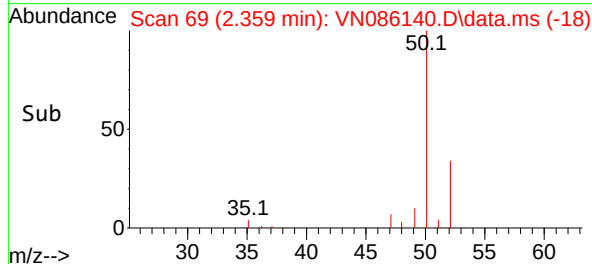
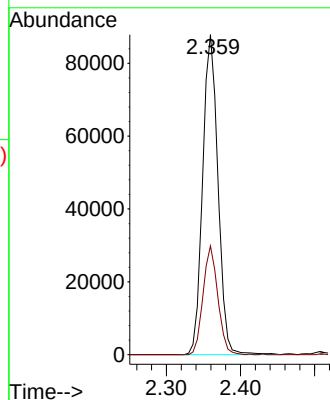
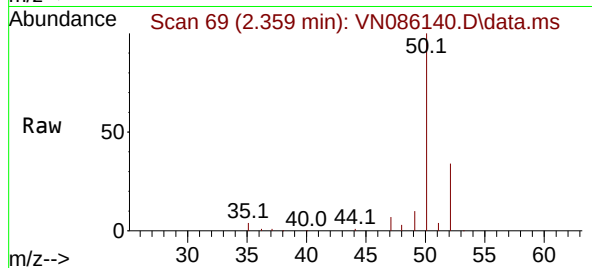
#3
Chloromethane
Concen: 49.761 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN086140.D
Acq: 28 Mar 2025 10:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 50 Resp: 12614
Ion Ratio Lower Upper
50 100
52 34.0 26.0 39.0

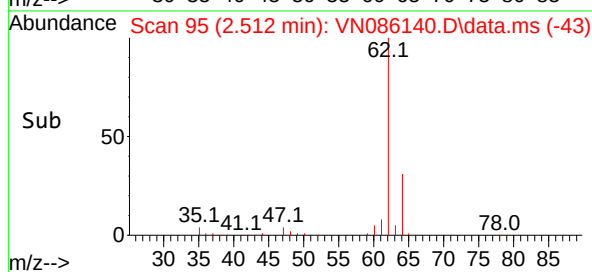
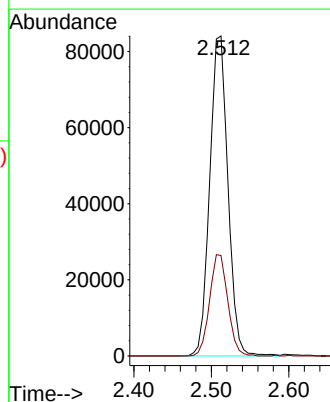
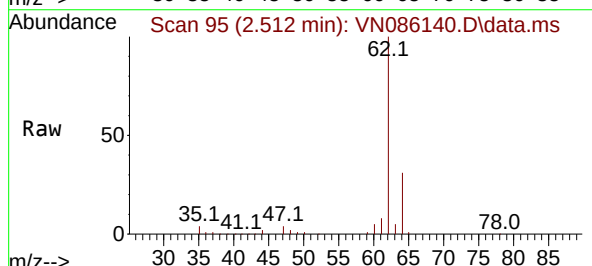
Manual Integrations
APPROVED

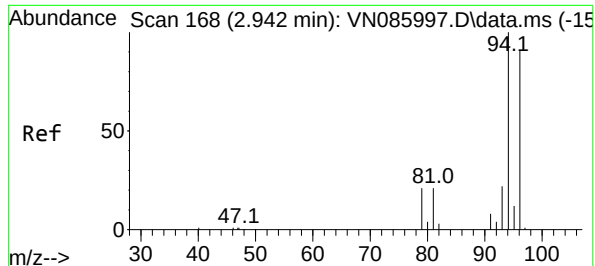
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#4
Vinyl Chloride
Concen: 52.948 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.006 min
Lab File: VN086140.D
Acq: 28 Mar 2025 10:44

Tgt Ion: 62 Resp: 137241
Ion Ratio Lower Upper
62 100
64 31.4 25.2 37.8





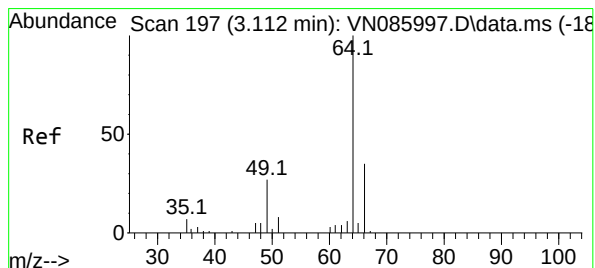
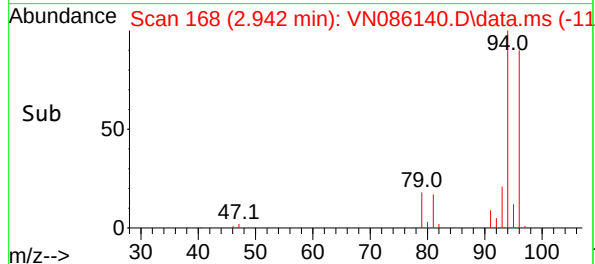
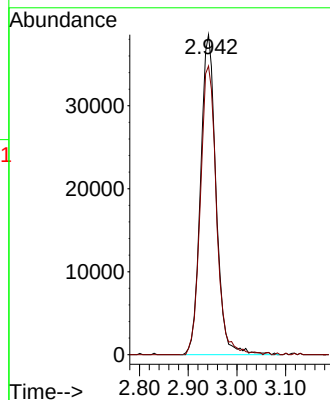
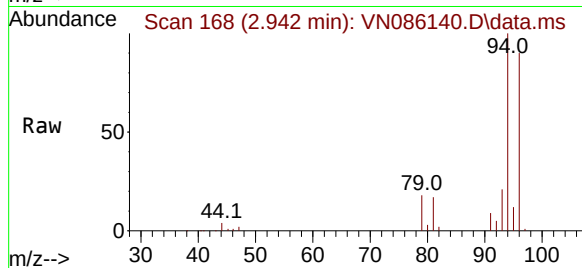
#5
Bromomethane
Concen: 48.375 ug/l
RT: 2.942 min Scan# 168
Delta R.T. -0.000 min
Lab File: VN086140.D
Acq: 28 Mar 2025 10:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 94 Resp: 8541
Ion Ratio Lower Upper
94 100
96 90.2 72.8 109.2

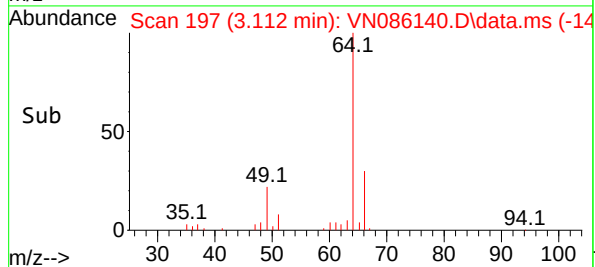
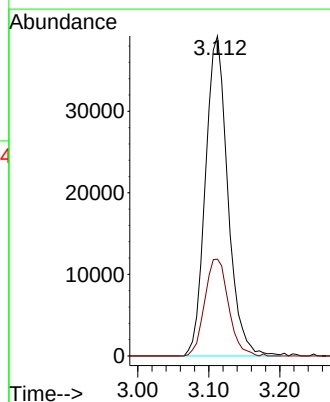
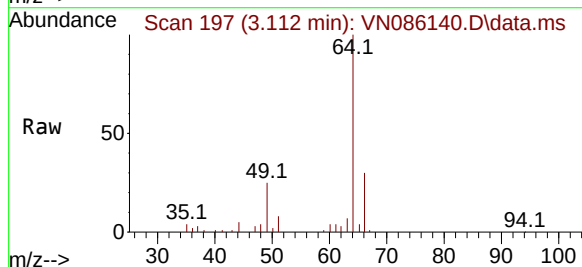
Manual Integrations
APPROVED

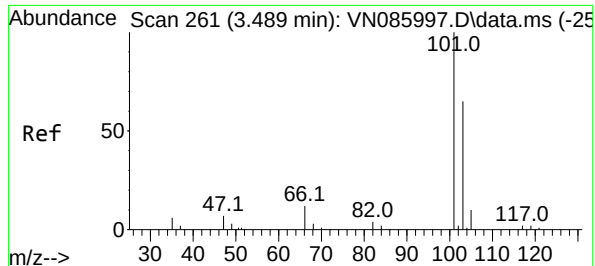
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#6
Chloroethane
Concen: 52.579 ug/l
RT: 3.112 min Scan# 197
Delta R.T. -0.000 min
Lab File: VN086140.D
Acq: 28 Mar 2025 10:44

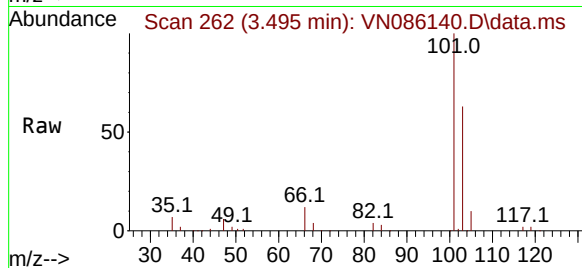
Tgt Ion: 64 Resp: 85977
Ion Ratio Lower Upper
64 100
66 30.3 28.3 42.5





#7
Trichlorofluoromethane
Concen: 45.786 ug/l
RT: 3.495 min Scan# 261
Delta R.T. 0.006 min
Lab File: VN086140.D
Acq: 28 Mar 2025 10:44

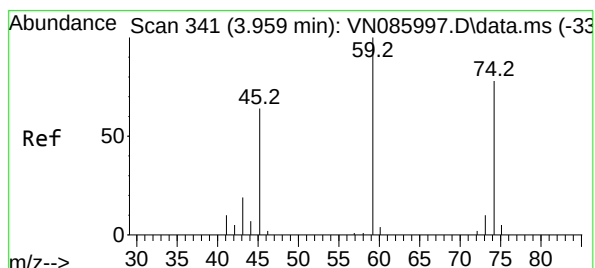
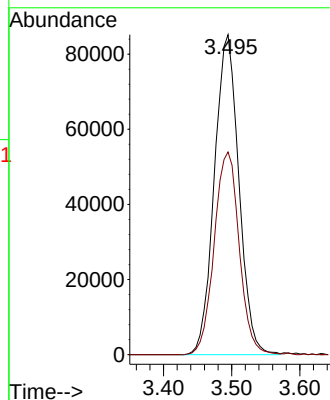
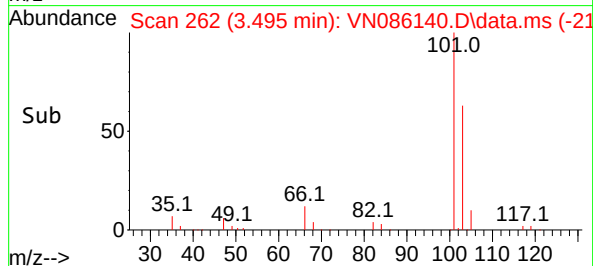
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 101 Resp: 21334
Ion Ratio Lower Upper
101 100
103 63.3 51.7 77.5

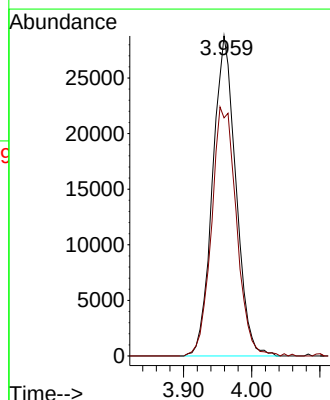
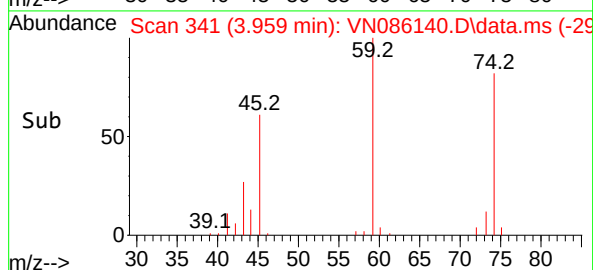
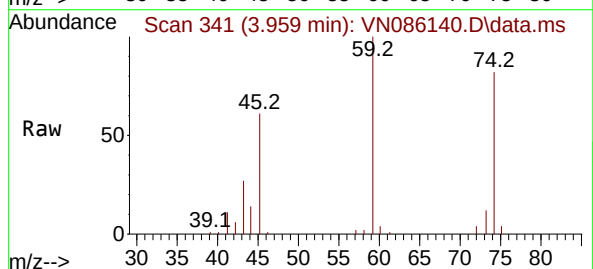
Manual Integrations
APPROVED

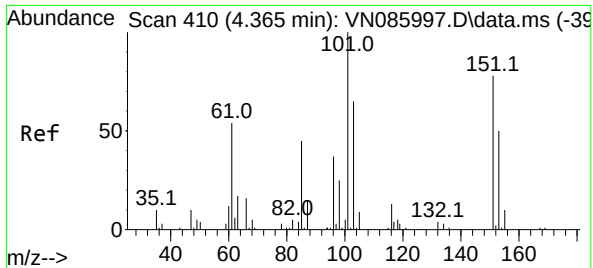
Reviewed By : John Carlone 03/31/2025
Supervised By : Mahesh Dadoda 03/31/2025



#8
Diethyl Ether
Concen: 47.923 ug/l
RT: 3.959 min Scan# 341
Delta R.T. -0.000 min
Lab File: VN086140.D
Acq: 28 Mar 2025 10:44

Tgt Ion: 74 Resp: 68358
Ion Ratio Lower Upper
74 100
45 83.3 38.0 113.9





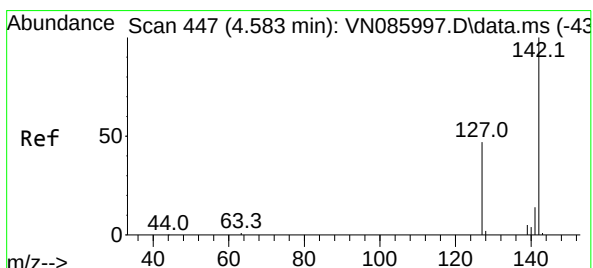
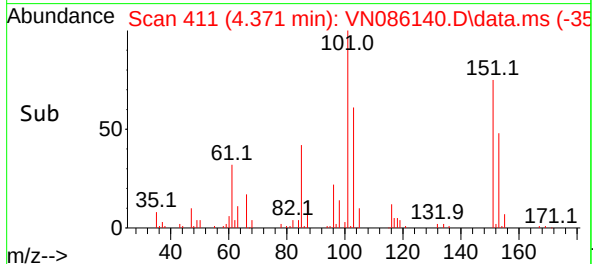
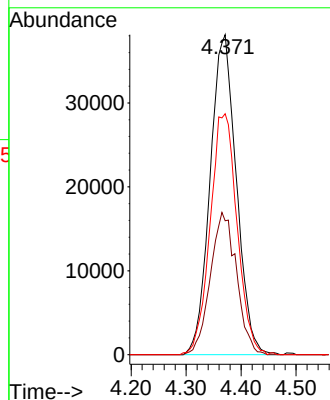
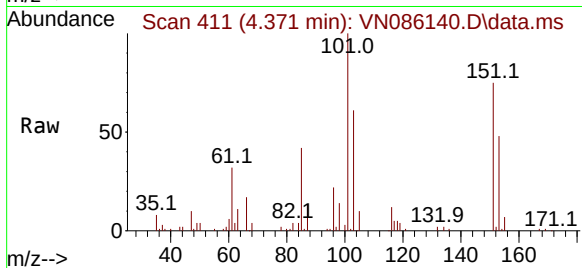
#9
1,1,2-Trichlorotrifluoroethane
Concen: 51.070 ug/l
RT: 4.371 min Scan# 411
Delta R.T. 0.006 min
Lab File: VN086140.D
Acq: 28 Mar 2025 10:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDC050

Tgt Ion:101 Resp: 12647
Ion Ratio Lower Upper
101 100
85 44.3 36.5 54.7
151 77.3 63.4 95.0

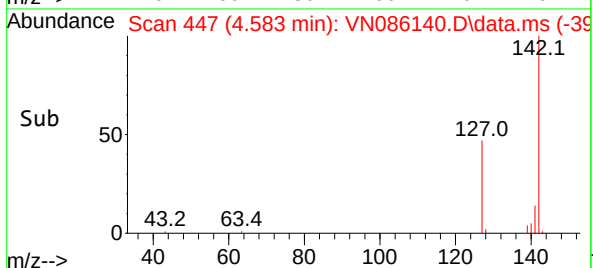
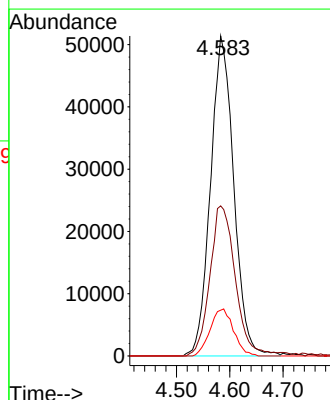
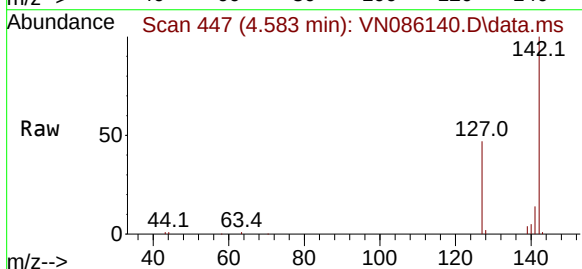
Manual Integrations
APPROVED

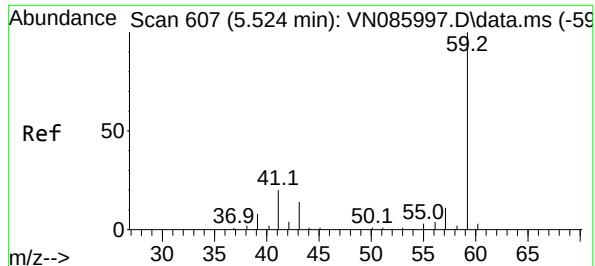
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#10
Methyl Iodide
Concen: 48.335 ug/l
RT: 4.583 min Scan# 447
Delta R.T. -0.000 min
Lab File: VN086140.D
Acq: 28 Mar 2025 10:44

Tgt Ion:142 Resp: 155966
Ion Ratio Lower Upper
142 100
127 46.9 37.5 56.3
141 14.3 11.0 16.6





#11

Tert butyl alcohol

Concen: 228.480 ug/l

RT: 5.524 min Scan# 607

Delta R.T. -0.000 min

Lab File: VN086140.D

Acq: 28 Mar 2025 10:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 59 Resp: 96684

Ion Ratio Lower Upper

59 100

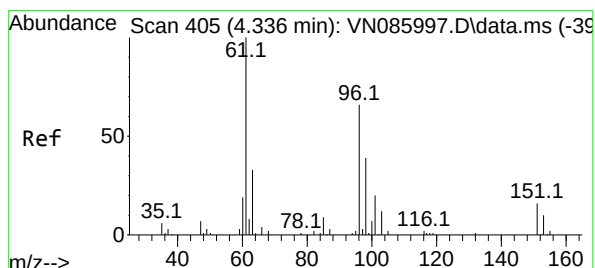
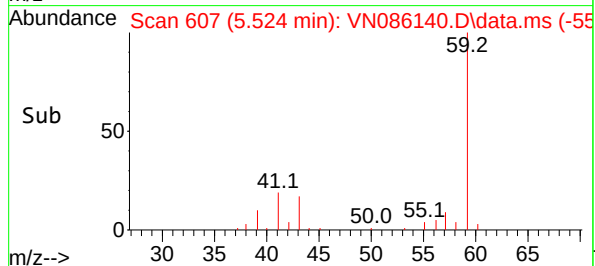
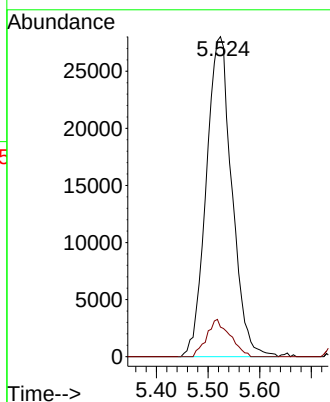
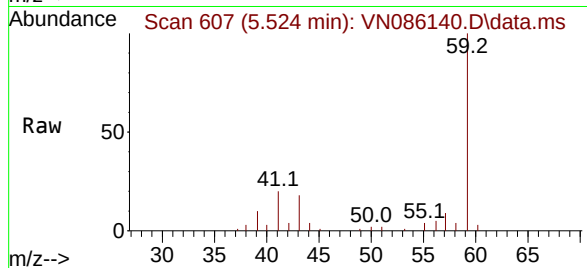
57 10.5 7.9 11.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/31/2025

Supervised By :Mahesh Dadoda 03/31/2025



#12

1,1-Dichloroethene

Concen: 48.849 ug/l

RT: 4.336 min Scan# 405

Delta R.T. -0.000 min

Lab File: VN086140.D

Acq: 28 Mar 2025 10:44

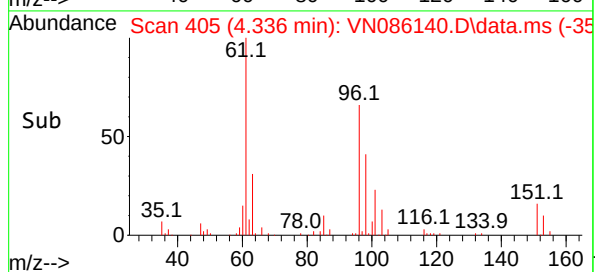
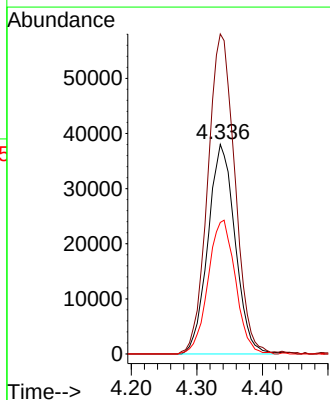
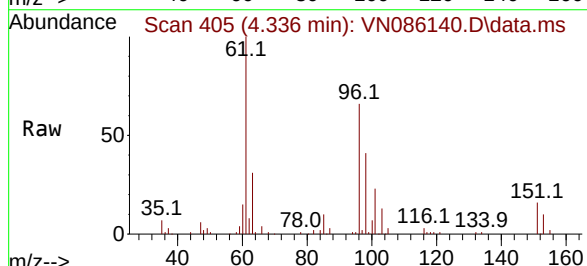
Tgt Ion: 96 Resp: 109233

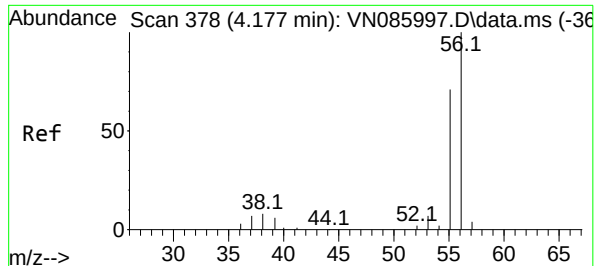
Ion Ratio Lower Upper

96 100

61 152.6 120.5 180.7

98 62.7 47.4 71.0





#13

Acrolein

Concen: 176.175 ug/l

RT: 4.183 min Scan# 379

Delta R.T. 0.006 min

Lab File: VN086140.D

Acq: 28 Mar 2025 10:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 56 Resp: 79514

Ion Ratio Lower Upper

56 100

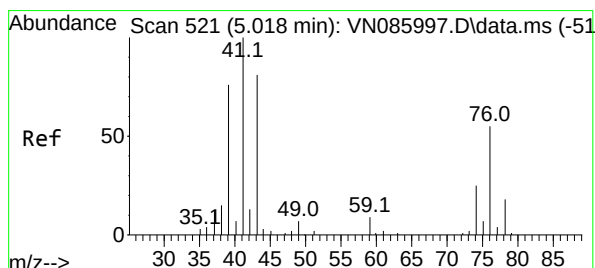
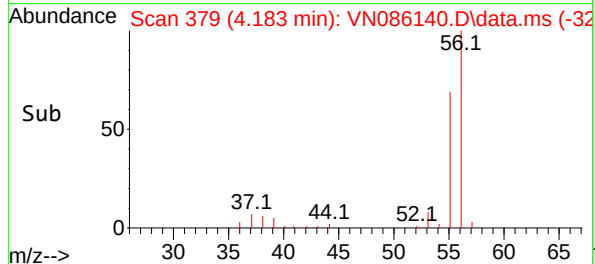
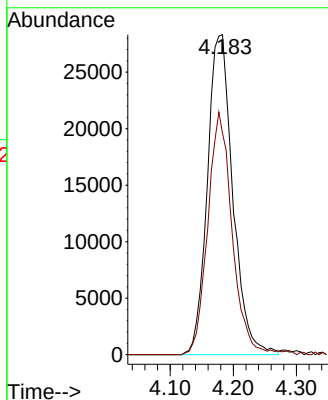
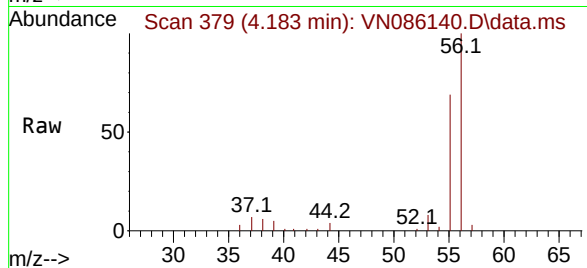
55 72.2 55.1 82.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/31/2025

Supervised By :Mahesh Dadoda 03/31/2025



#14

Allyl chloride

Concen: 48.322 ug/l

RT: 5.018 min Scan# 521

Delta R.T. -0.000 min

Lab File: VN086140.D

Acq: 28 Mar 2025 10:44

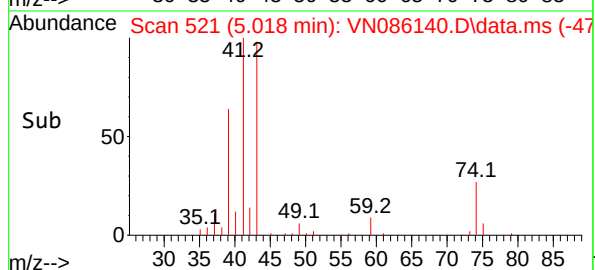
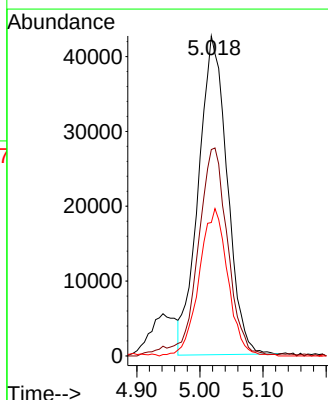
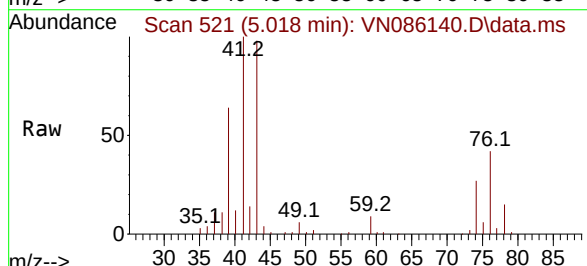
Tgt Ion: 41 Resp: 134804

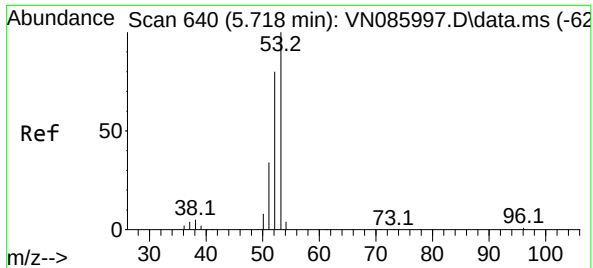
Ion Ratio Lower Upper

41 100

39 67.9 55.5 83.3

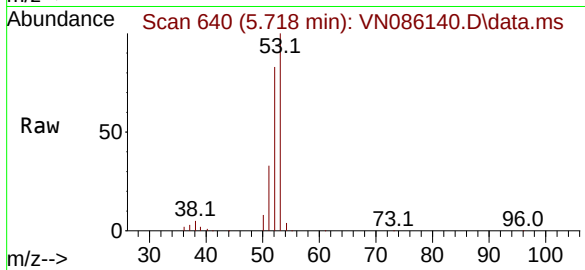
76 46.0 39.1 58.7





#15
Acrylonitrile
Concen: 269.611 ug/l
RT: 5.718 min Scan# 640
Delta R.T. -0.000 min
Lab File: VN086140.D
Acq: 28 Mar 2025 10:44

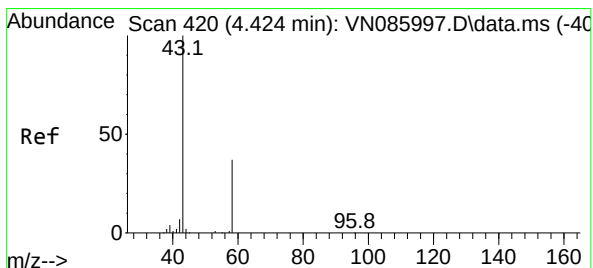
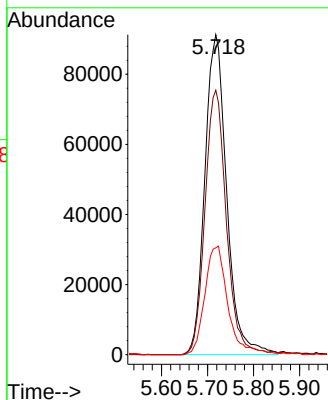
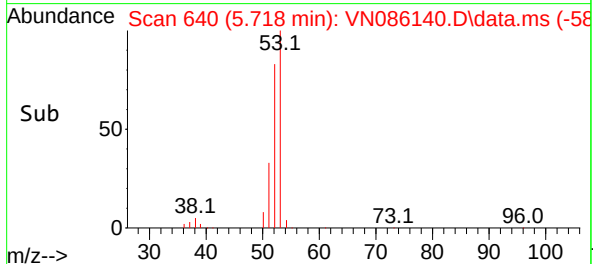
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 53 Resp: 301308
Ion Ratio Lower Upper
53 100
52 80.8 63.9 95.9
51 35.9 27.1 40.7

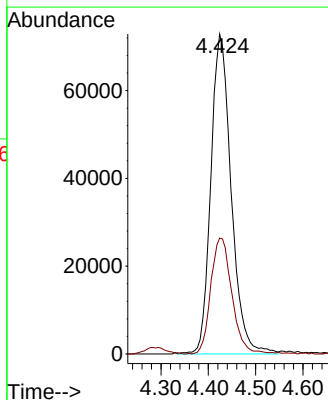
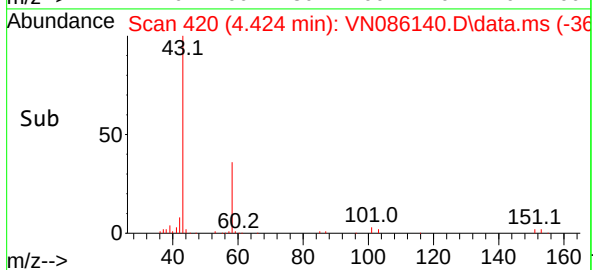
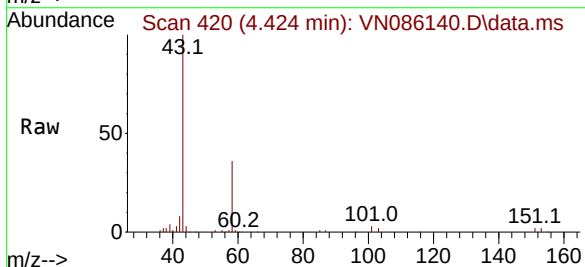
Manual Integrations
APPROVED

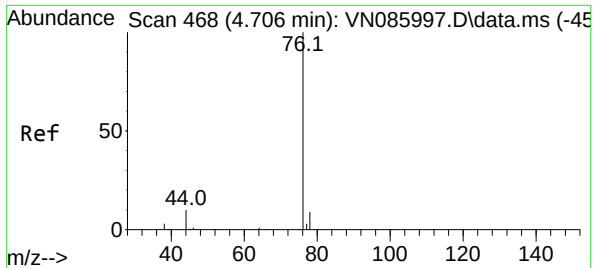
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#16
Acetone
Concen: 238.355 ug/l
RT: 4.424 min Scan# 420
Delta R.T. -0.000 min
Lab File: VN086140.D
Acq: 28 Mar 2025 10:44

Tgt Ion: 43 Resp: 217644
Ion Ratio Lower Upper
43 100
58 35.8 29.4 44.2





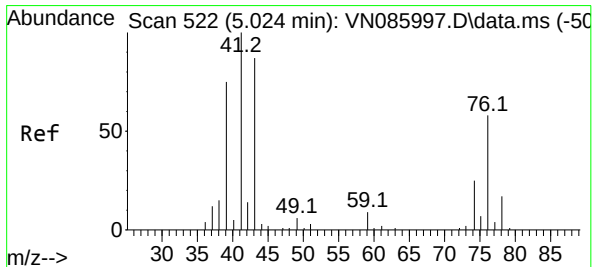
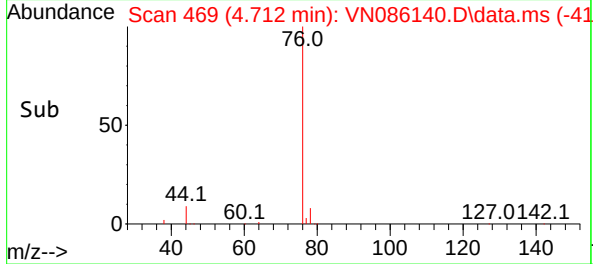
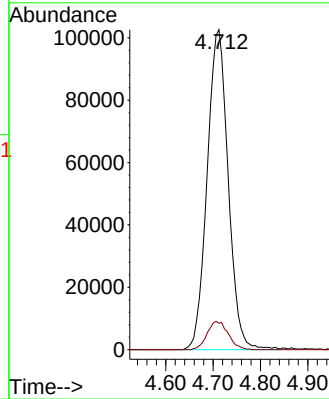
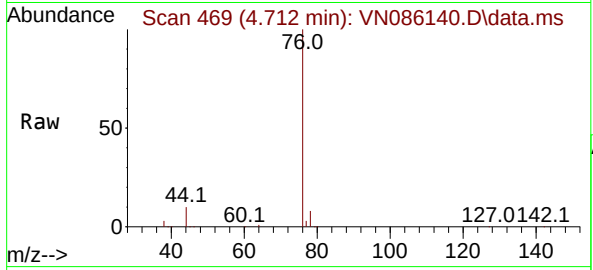
#17
Carbon Disulfide
Concen: 43.117 ug/l
RT: 4.712 min Scan# 409
Delta R.T. 0.006 min
Lab File: VN086140.D
Acq: 28 Mar 2025 10:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 317078
Ion Ratio Lower Upper
76 100
78 8.3 7.4 11.2

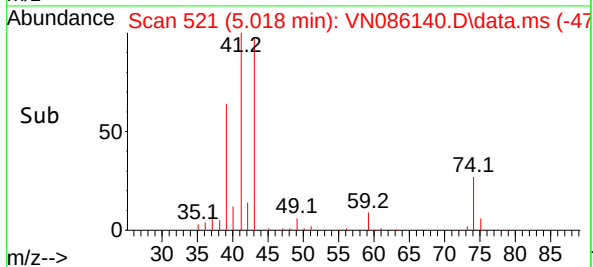
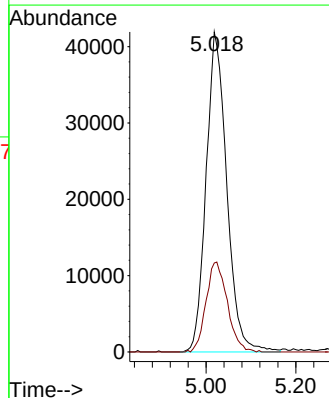
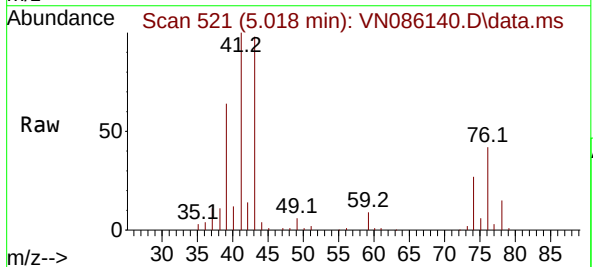
Manual Integrations
APPROVED

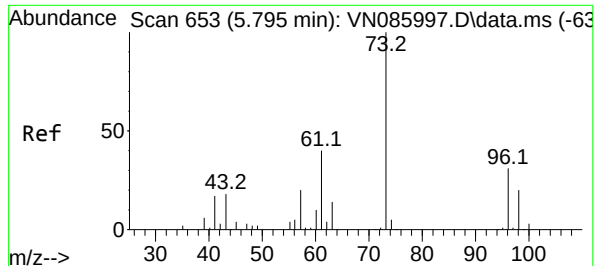
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#18
Methyl Acetate
Concen: 59.287 ug/l
RT: 5.018 min Scan# 521
Delta R.T. -0.006 min
Lab File: VN086140.D
Acq: 28 Mar 2025 10:44

Tgt Ion: 43 Resp: 133940
Ion Ratio Lower Upper
43 100
74 29.0 23.9 35.9





#19

Methyl tert-butyl Ether

Concen: 50.050 ug/l

RT: 5.794 min Scan# 61

Delta R.T. -0.000 min

Lab File: VN086140.D

Acq: 28 Mar 2025 10:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 73 Resp: 366744

Ion Ratio Lower Upper

73 100

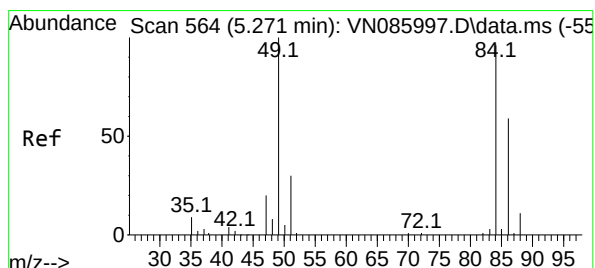
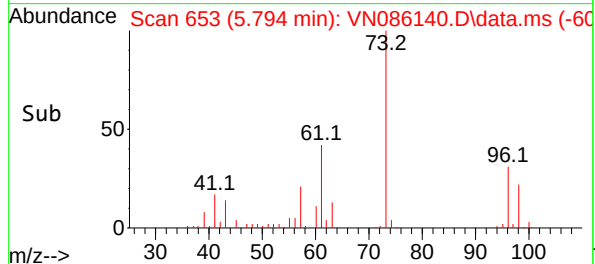
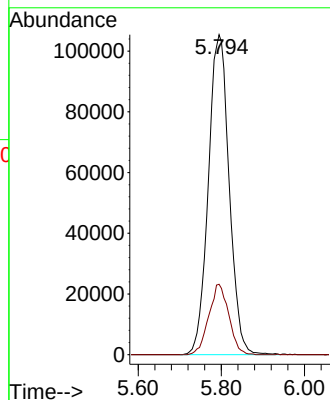
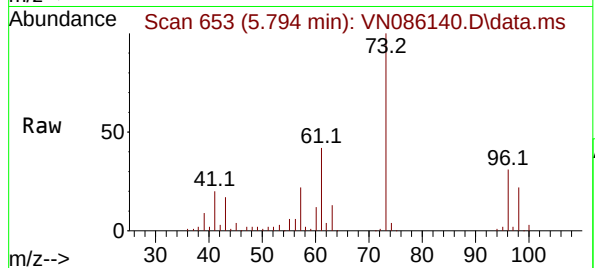
57 22.0 16.1 24.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/31/2025

Supervised By :Mahesh Dadoda 03/31/2025



#20

Methylene Chloride

Concen: 50.330 ug/l

RT: 5.271 min Scan# 564

Delta R.T. -0.000 min

Lab File: VN086140.D

Acq: 28 Mar 2025 10:44

Tgt Ion: 84 Resp: 134442

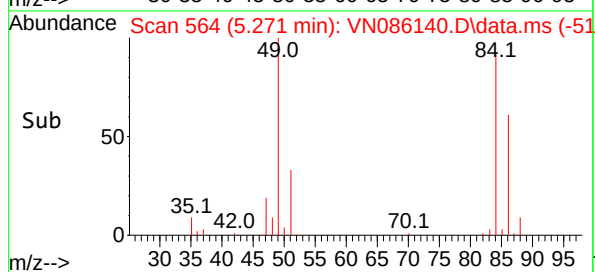
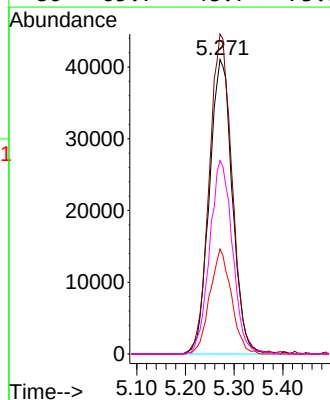
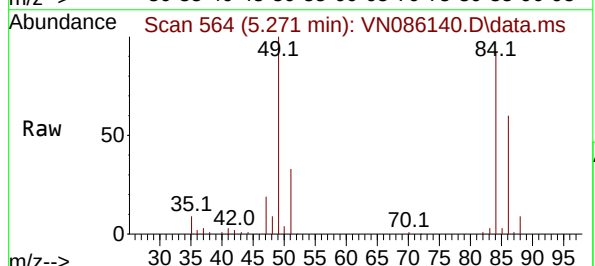
Ion Ratio Lower Upper

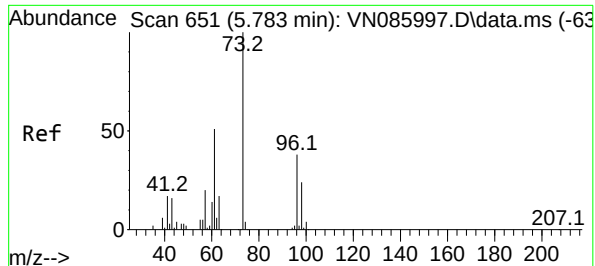
84 100

49 108.7 83.3 124.9

51 35.7 24.8 37.2

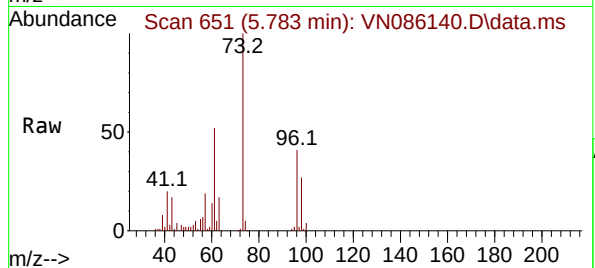
86 65.7 48.7 73.1





#21
trans-1,2-Dichloroethene
Concen: 50.136 ug/l
RT: 5.783 min Scan# 651
Delta R.T. -0.000 min
Lab File: VN086140.D
Acq: 28 Mar 2025 10:44

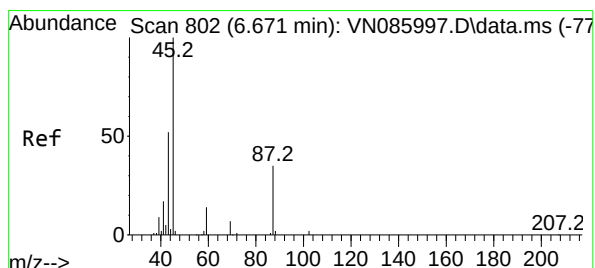
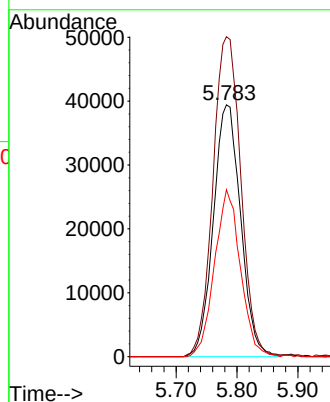
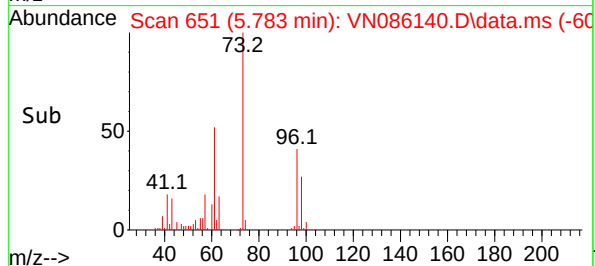
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 96 Resp: 12252
Ion Ratio Lower Upper
96 100
61 127.1 106.6 160.0
98 66.3 50.0 75.0

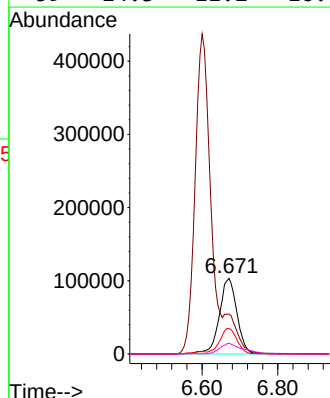
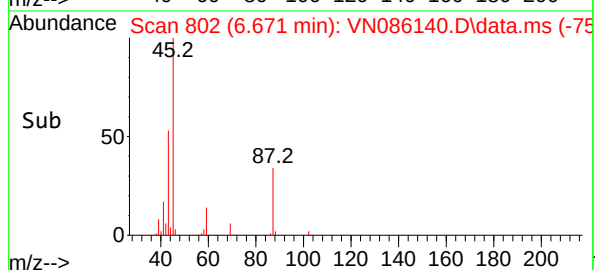
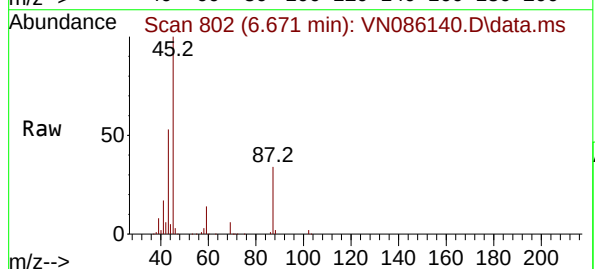
Manual Integrations
APPROVED

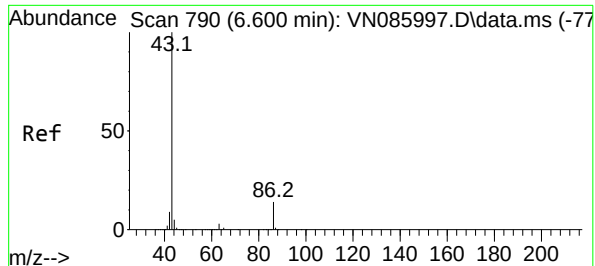
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#22
Diisopropyl ether
Concen: 56.246 ug/l
RT: 6.671 min Scan# 802
Delta R.T. -0.000 min
Lab File: VN086140.D
Acq: 28 Mar 2025 10:44

Tgt Ion: 45 Resp: 334371
Ion Ratio Lower Upper
45 100
43 52.1 41.2 61.8
87 33.7 28.5 42.7
59 14.3 11.2 16.8





#23

Vinyl Acetate

Concen: 270.712 ug/l

RT: 6.600 min Scan# 790

Delta R.T. -0.000 min

Lab File: VN086140.D

Acq: 28 Mar 2025 10:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 1219974

Ion Ratio Lower Upper

43

100

86

13.1

11.2

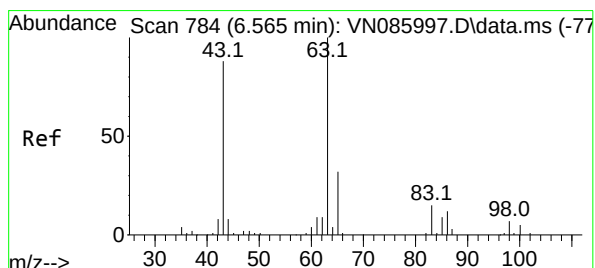
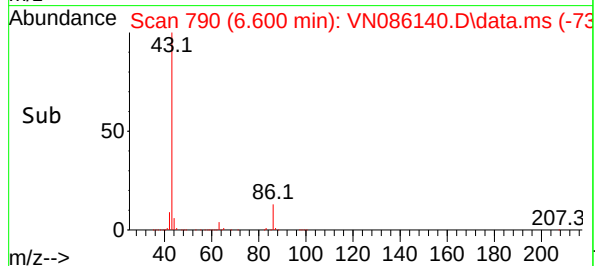
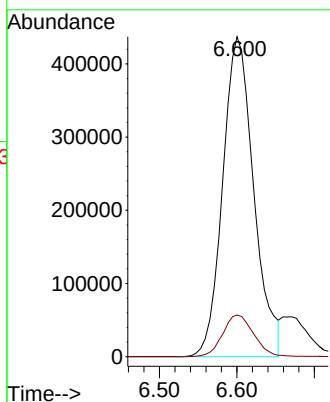
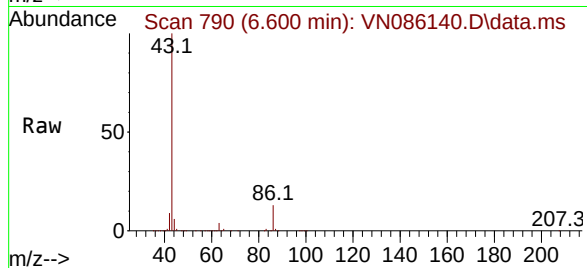
16.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/31/2025

Supervised By :Mahesh Dadoda 03/31/2025



#24

1,1-Dichloroethane

Concen: 50.844 ug/l

RT: 6.565 min Scan# 784

Delta R.T. -0.000 min

Lab File: VN086140.D

Acq: 28 Mar 2025 10:44

Tgt Ion: 63 Resp: 222267

Ion Ratio Lower Upper

63

100

98

8.0

3.6

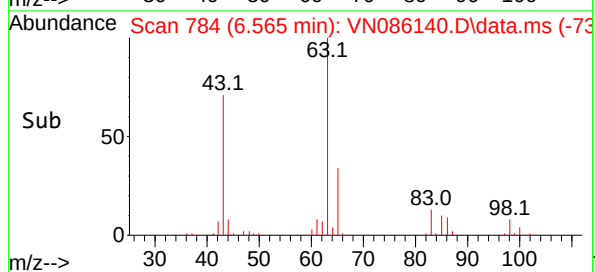
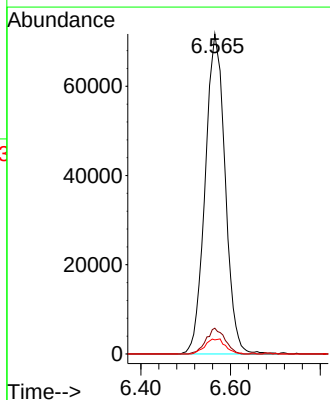
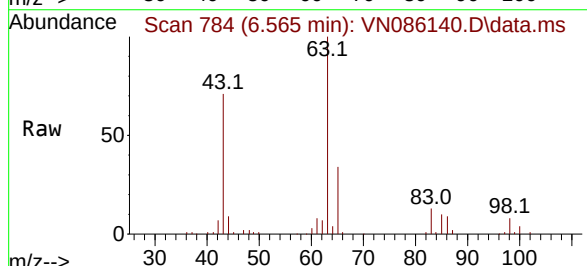
10.9

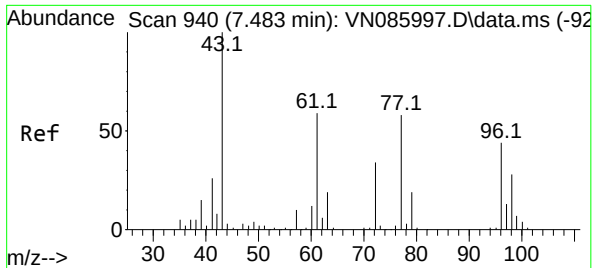
100

4.4

2.5

7.5





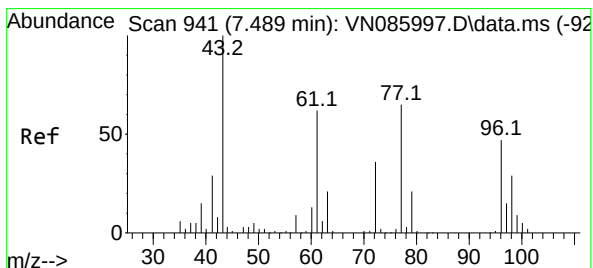
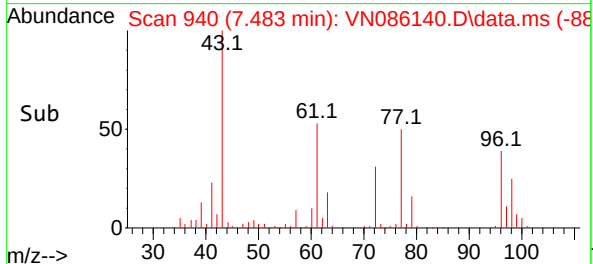
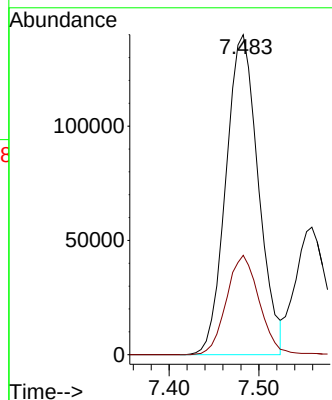
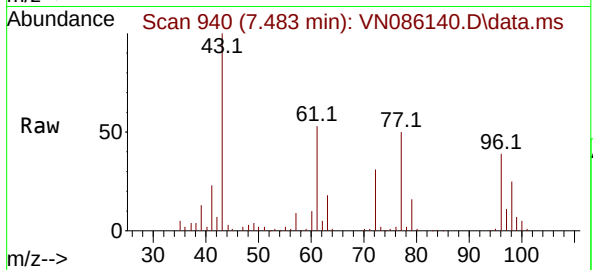
#25
2-Butanone
Concen: 267.129 ug/l
RT: 7.483 min Scan# 940
Delta R.T. -0.000 min
Lab File: VN086140.D
Acq: 28 Mar 2025 10:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 351958
Ion Ratio Lower Upper
43 100
72 31.0 27.4 41.0

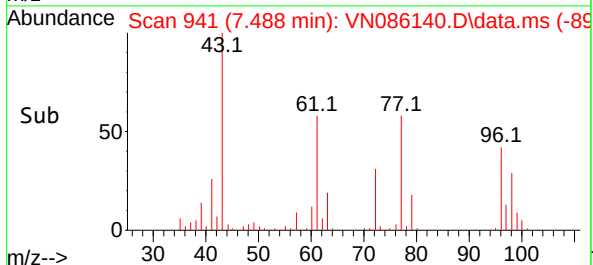
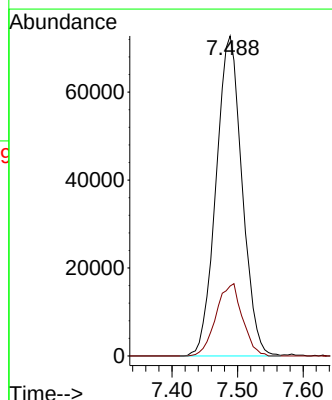
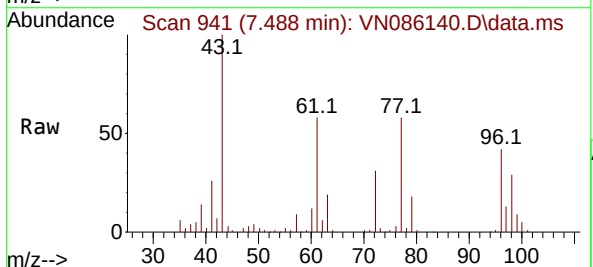
Manual Integrations
APPROVED

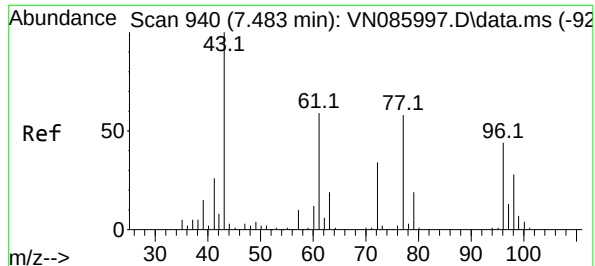
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#26
2,2-Dichloropropane
Concen: 47.604 ug/l
RT: 7.488 min Scan# 941
Delta R.T. -0.000 min
Lab File: VN086140.D
Acq: 28 Mar 2025 10:44

Tgt Ion: 77 Resp: 200348
Ion Ratio Lower Upper
77 100
97 22.8 11.2 33.5





#27

cis-1,2-Dichloroethene

Concen: 51.259 ug/l

RT: 7.483 min Scan# 940

Delta R.T. -0.000 min

Lab File: VN086140.D

Acq: 28 Mar 2025 10:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 96 Resp: 142349

Ion Ratio Lower Upper

96 100

61 137.6 0.0 272.8

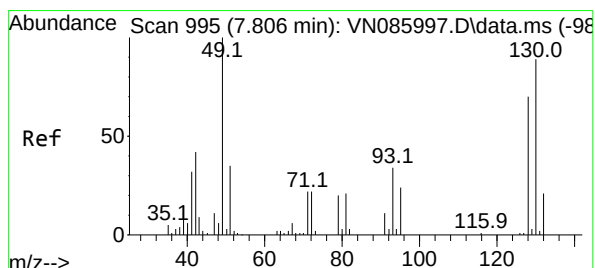
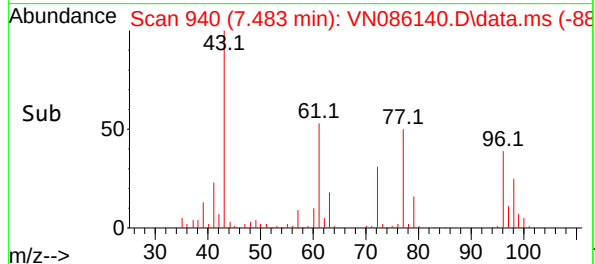
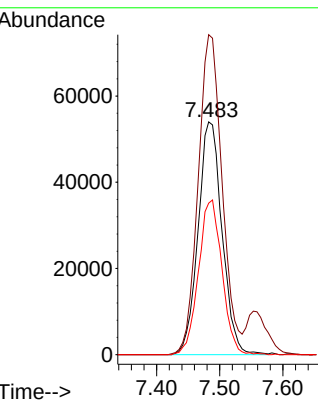
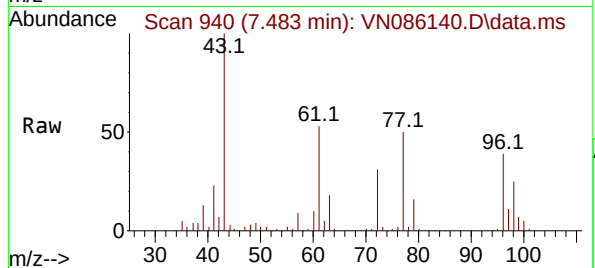
98 65.2 0.0 124.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/31/2025

Supervised By :Mahesh Dadoda 03/31/2025



#28

Bromochloromethane

Concen: 50.665 ug/l

RT: 7.812 min Scan# 996

Delta R.T. 0.006 min

Lab File: VN086140.D

Acq: 28 Mar 2025 10:44

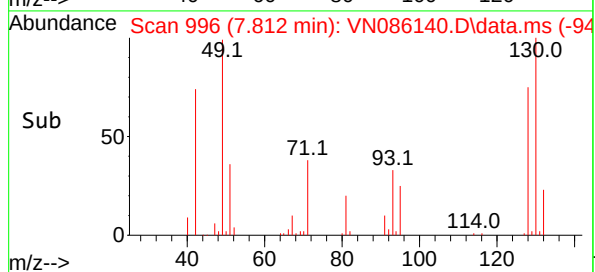
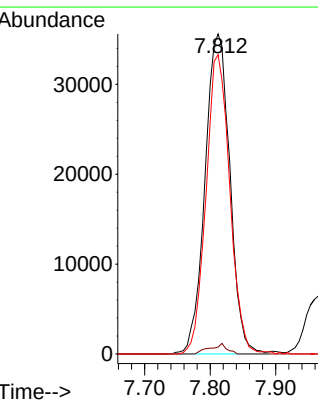
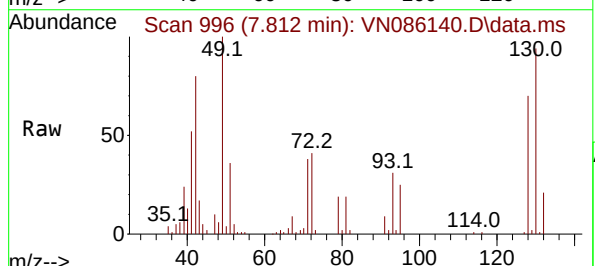
Tgt Ion: 49 Resp: 93838

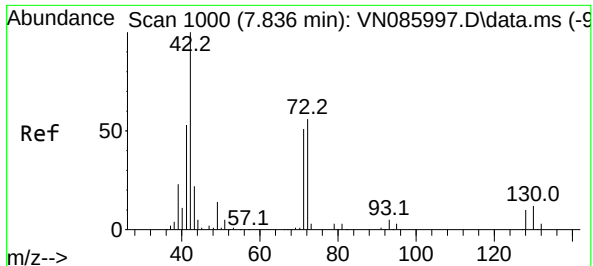
Ion Ratio Lower Upper

49 100

129 2.2 0.0 4.2

130 89.3 74.2 111.4





#29

Tetrahydrofuran

Concen: 291.808 ug/l

RT: 7.835 min Scan# 1000

Delta R.T. -0.000 min

Lab File: VN086140.D

Acq: 28 Mar 2025 10:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 42 Resp: 23736

Ion Ratio Lower Upper

42 100

72 52.6 45.0 67.4

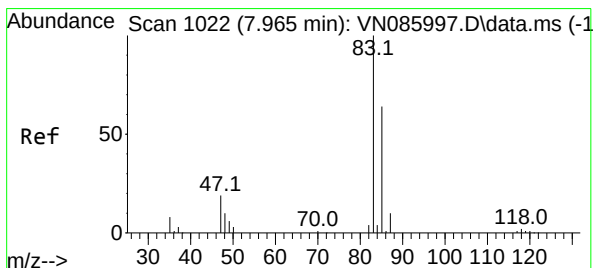
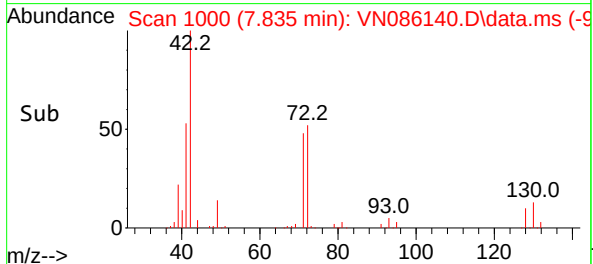
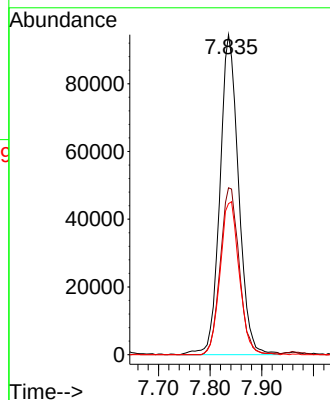
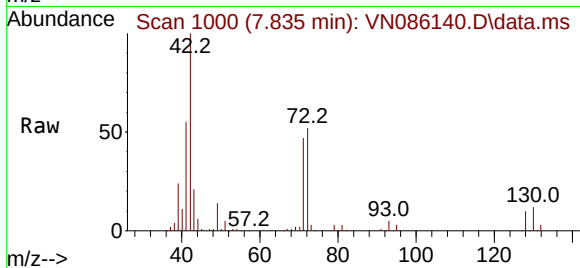
71 48.9 41.9 62.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/31/2025

Supervised By :Mahesh Dadoda 03/31/2025



#30

Chloroform

Concen: 50.121 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. -0.000 min

Lab File: VN086140.D

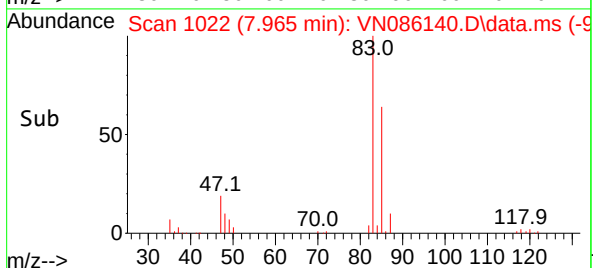
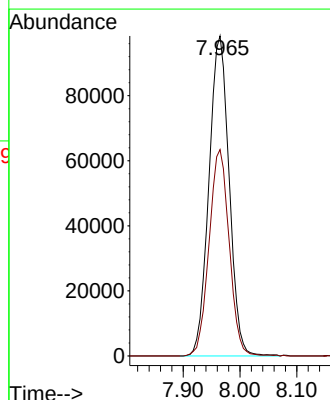
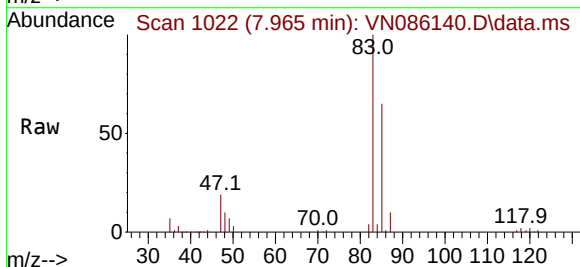
Acq: 28 Mar 2025 10:44

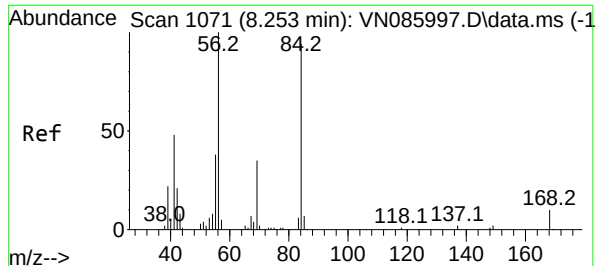
Tgt Ion: 83 Resp: 242183

Ion Ratio Lower Upper

83 100

85 64.5 51.5 77.3





#31

Cyclohexane

Concen: 48.348 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. -0.000 min

Lab File: VN086140.D

Acq: 28 Mar 2025 10:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 56 Resp: 18005

Ion Ratio Lower Upper

56 100

69 32.9 28.0 42.0

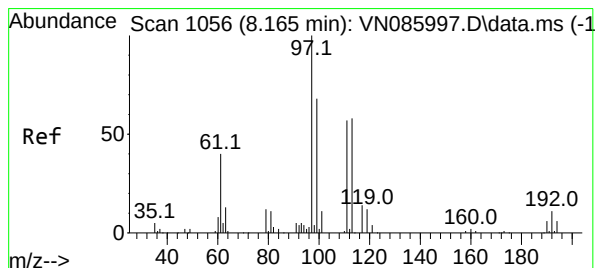
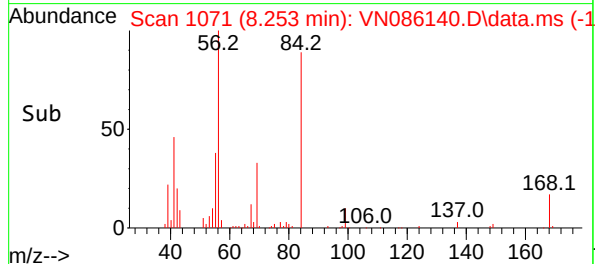
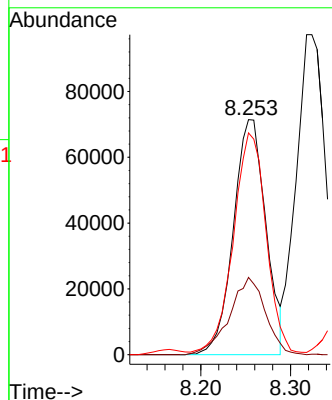
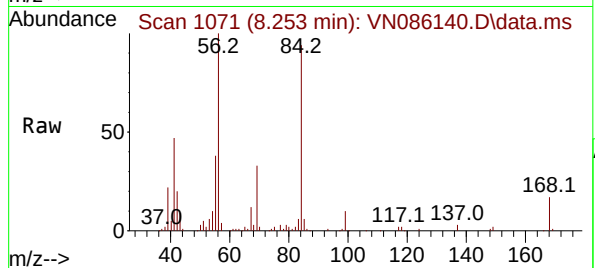
84 92.9 75.0 112.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/31/2025

Supervised By :Mahesh Dadoda 03/31/2025



#32

1,1,1-Trichloroethane

Concen: 47.982 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086140.D

Acq: 28 Mar 2025 10:44

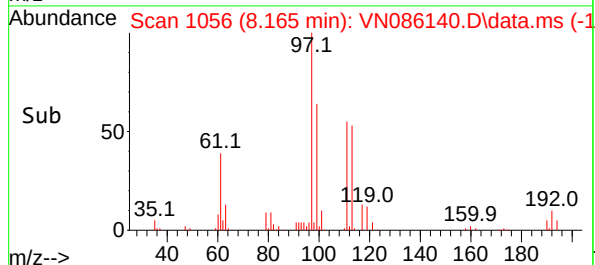
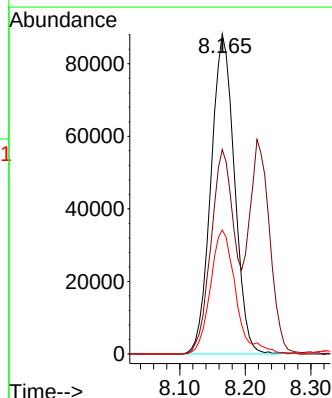
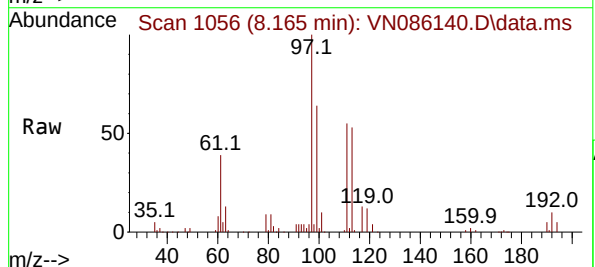
Tgt Ion: 97 Resp: 219467

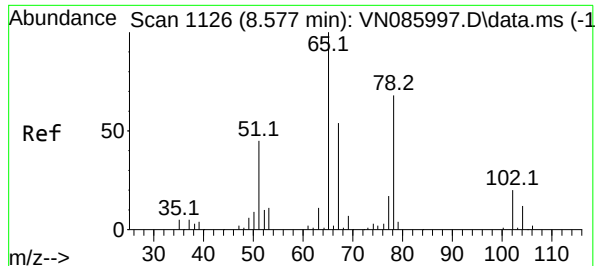
Ion Ratio Lower Upper

97 100

99 64.5 52.8 79.2

61 41.7 33.6 50.4





#33

1,2-Dichloroethane-d4

Concen: 44.950 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN086140.D

Acq: 28 Mar 2025 10:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 65 Resp: 134340

Ion Ratio Lower Upper

65 100

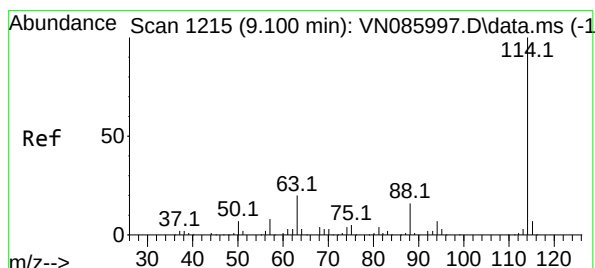
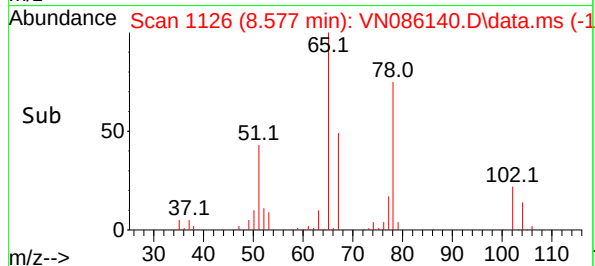
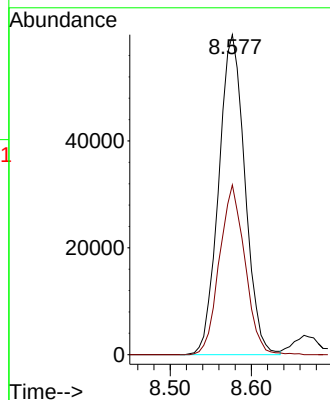
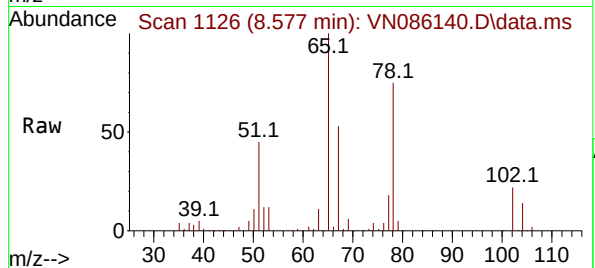
67 51.7 0.0 102.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/31/2025

Supervised By :Mahesh Dadoda 03/31/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN086140.D

Acq: 28 Mar 2025 10:44

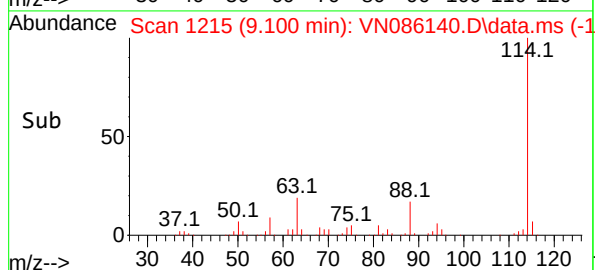
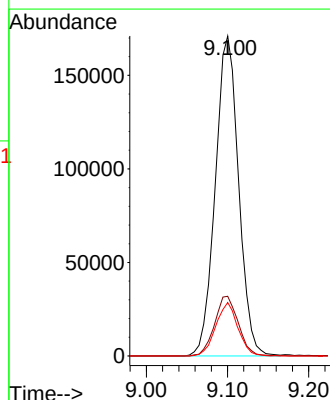
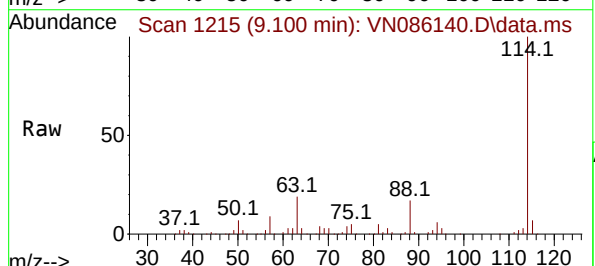
Tgt Ion:114 Resp: 341726

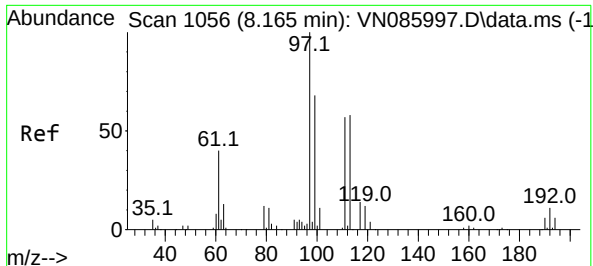
Ion Ratio Lower Upper

114 100

63 18.6 0.0 39.6

88 16.7 0.0 32.6





#35

Dibromofluoromethane

Concen: 47.053 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086140.D

Acq: 28 Mar 2025 10:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion:113 Resp: 112230

Ion Ratio Lower Upper

113 100

111 102.4 81.8 122.8

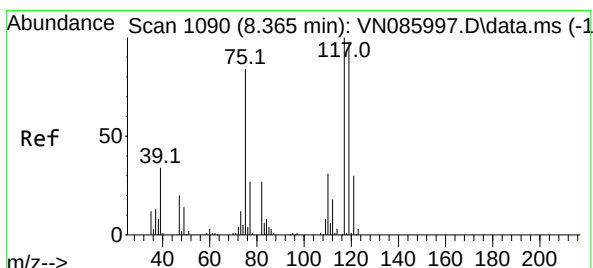
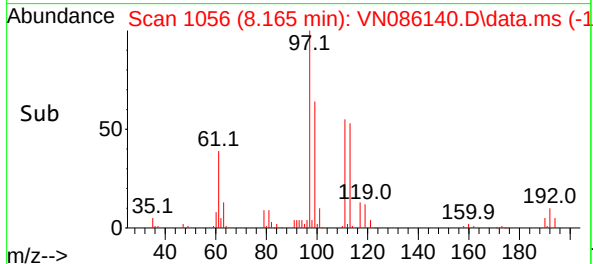
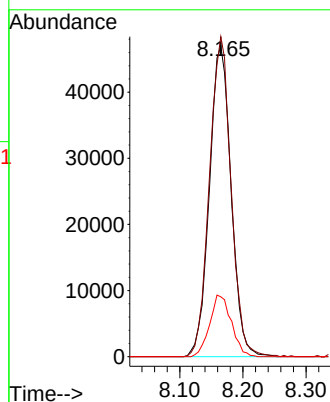
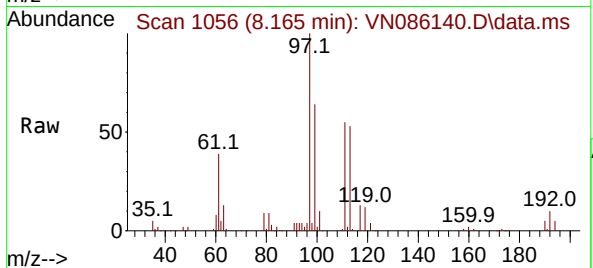
192 19.8 15.9 23.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/31/2025

Supervised By :Mahesh Dadoda 03/31/2025



#36

1,1-Dichloropropene

Concen: 51.925 ug/l

RT: 8.371 min Scan# 1091

Delta R.T. 0.006 min

Lab File: VN086140.D

Acq: 28 Mar 2025 10:44

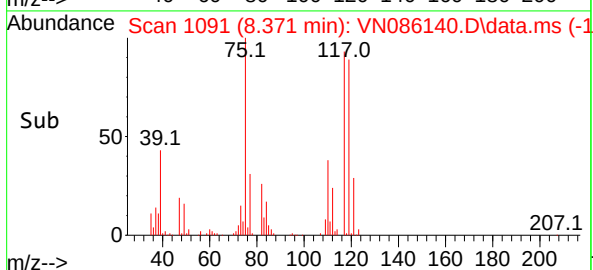
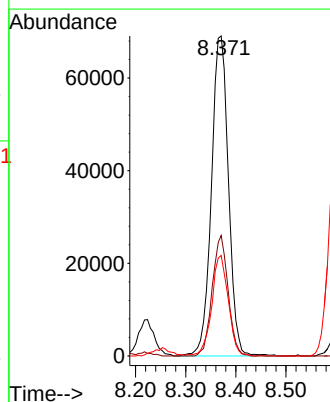
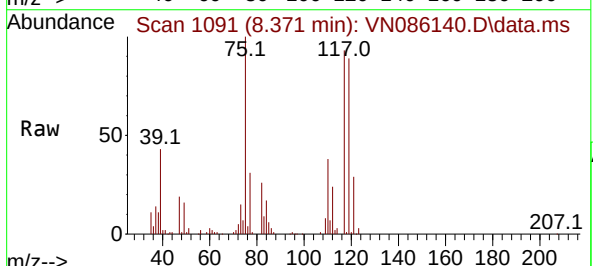
Tgt Ion: 75 Resp: 163082

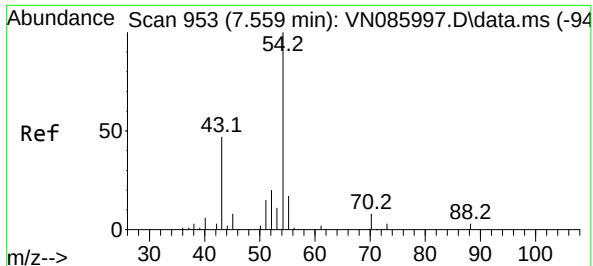
Ion Ratio Lower Upper

75 100

110 35.0 17.8 53.3

77 30.6 25.0 37.4





#37

Ethyl Acetate

Concen: 53.149 ug/l

RT: 7.559 min Scan# 91

Delta R.T. -0.000 min

Lab File: VN086140.D

Acq: 28 Mar 2025 10:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 14082

Ion Ratio Lower Upper

43 100

61 16.1 13.0 19.4

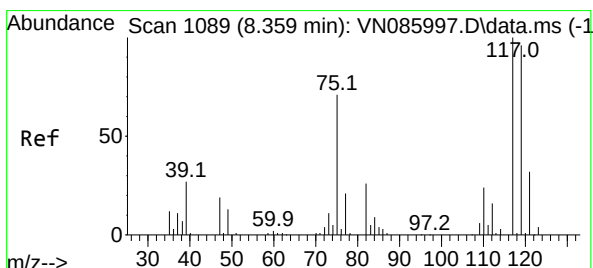
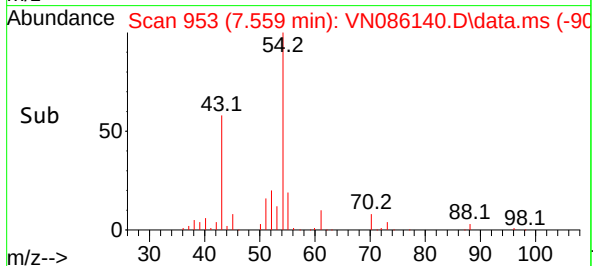
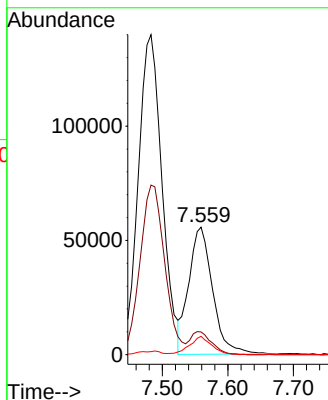
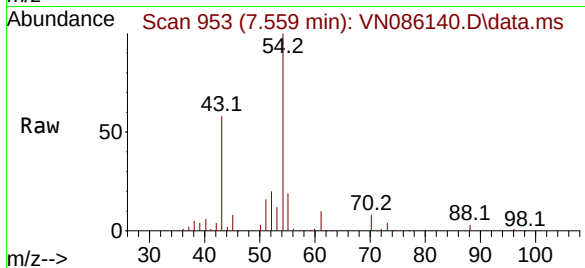
70 13.4 11.0 16.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/31/2025

Supervised By :Mahesh Dadoda 03/31/2025



#38

Carbon Tetrachloride

Concen: 49.277 ug/l

RT: 8.359 min Scan# 1089

Delta R.T. -0.000 min

Lab File: VN086140.D

Acq: 28 Mar 2025 10:44

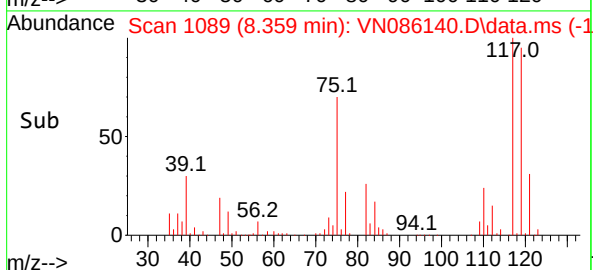
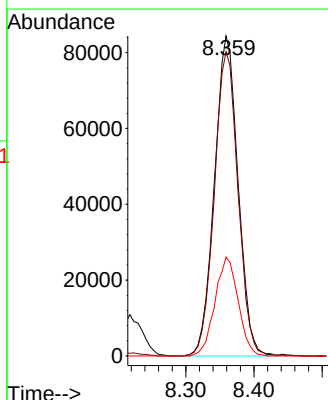
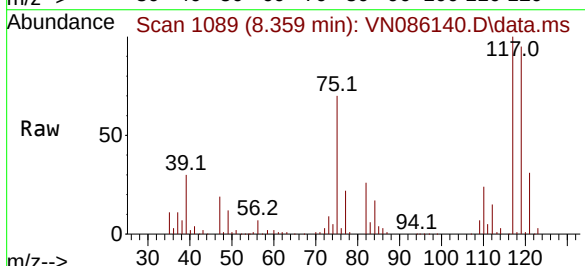
Tgt Ion:117 Resp: 203489

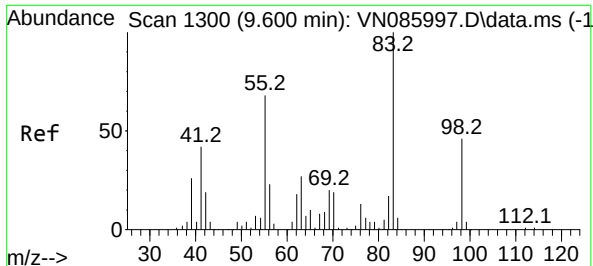
Ion Ratio Lower Upper

117 100

119 95.1 77.0 115.4

121 30.9 25.6 38.4





#39

Methylcyclohexane

Concen: 52.610 ug/l

RT: 9.600 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN086140.D

Acq: 28 Mar 2025 10:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 83 Resp: 16393

Ion Ratio Lower Upper

83 100

55 72.1 54.2 81.2

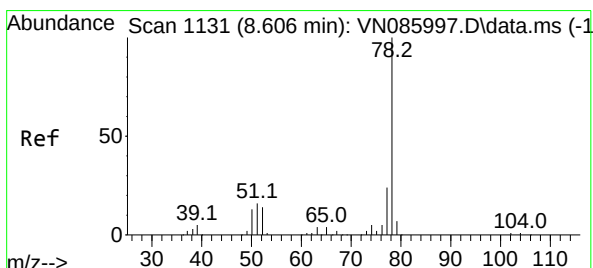
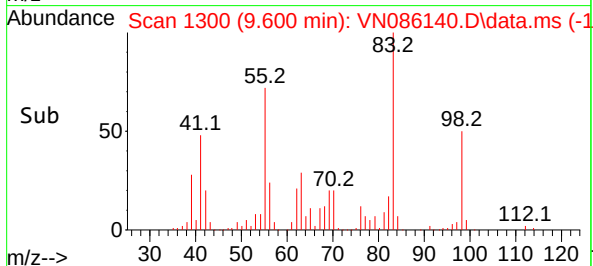
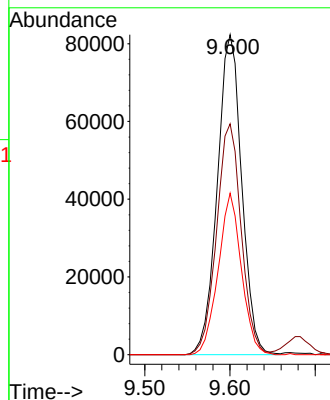
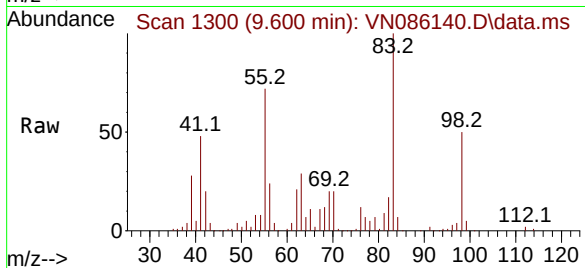
98 50.5 37.1 55.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/31/2025

Supervised By :Mahesh Dadoda 03/31/2025



#40

Benzene

Concen: 52.863 ug/l

RT: 8.606 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VN086140.D

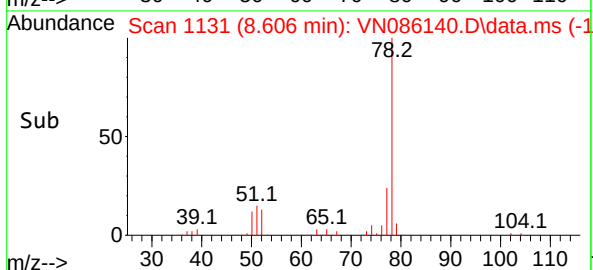
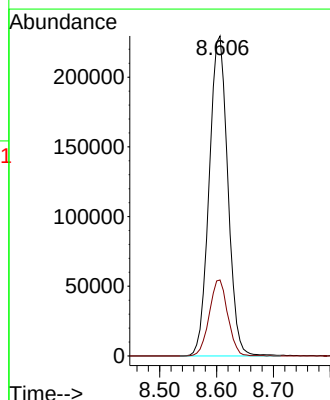
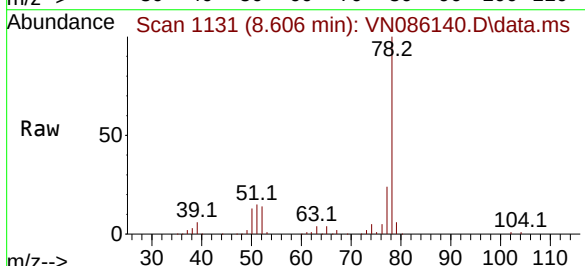
Acq: 28 Mar 2025 10:44

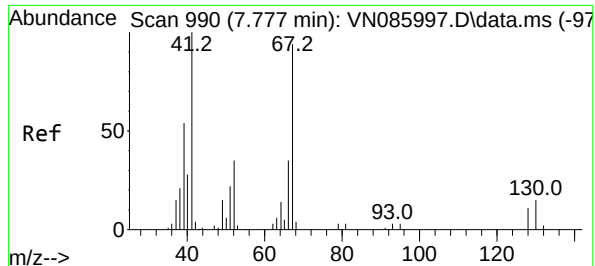
Tgt Ion: 78 Resp: 521201

Ion Ratio Lower Upper

78 100

77 23.7 18.9 28.3





#41

Methacrylonitrile

Concen: 57.121 ug/l

RT: 7.777 min Scan# 990

Delta R.T. -0.000 min

Lab File: VN086140.D

Acq: 28 Mar 2025 10:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 41 Resp: 7227

Ion Ratio Lower Upper

41 100

39 55.9 46.2 69.2

67 90.5 75.9 113.9

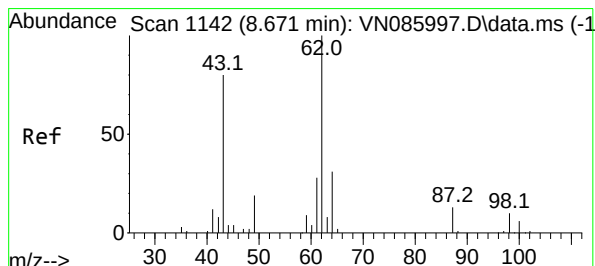
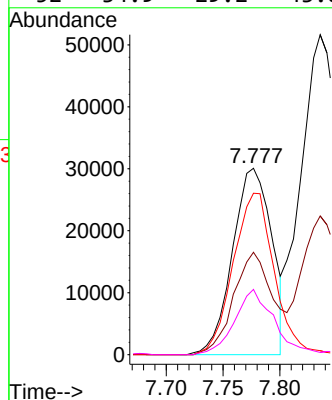
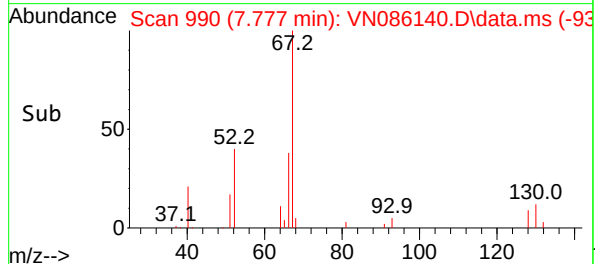
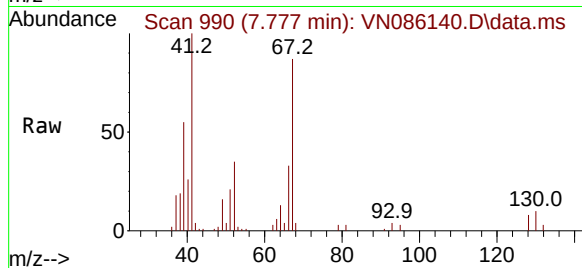
52 34.9 29.2 43.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/31/2025

Supervised By :Mahesh Dadoda 03/31/2025



#42

1,2-Dichloroethane

Concen: 49.009 ug/l

RT: 8.665 min Scan# 1141

Delta R.T. -0.006 min

Lab File: VN086140.D

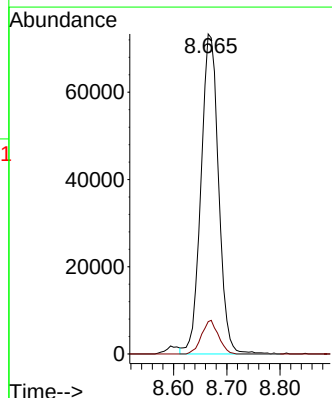
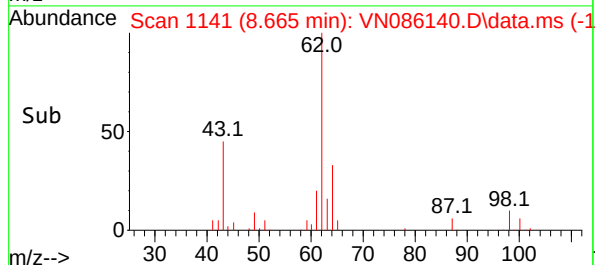
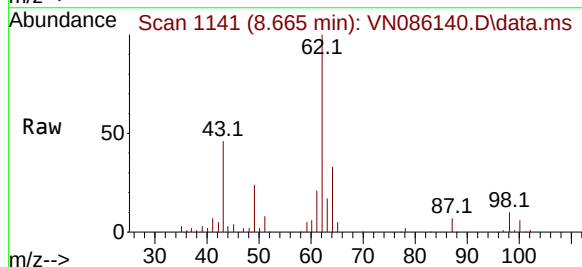
Acq: 28 Mar 2025 10:44

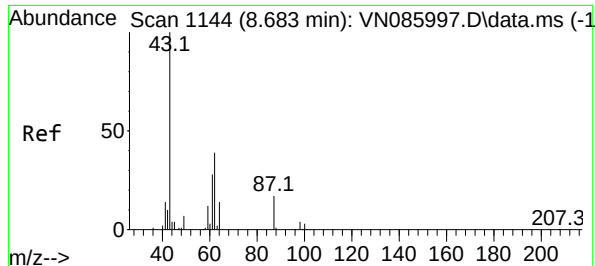
Tgt Ion: 62 Resp: 168370

Ion Ratio Lower Upper

62 100

98 10.0 0.0 18.6





#43

Isopropyl Acetate

Concen: 40.654 ug/l

RT: 8.682 min Scan# 1144

Delta R.T. -0.000 min

Lab File: VN086140.D

Acq: 28 Mar 2025 10:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 233419

Ion Ratio Lower Upper

43 100

61 30.2 25.0 37.6

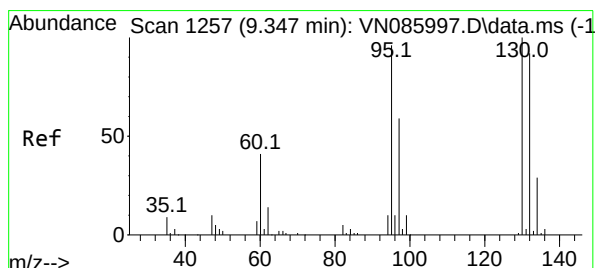
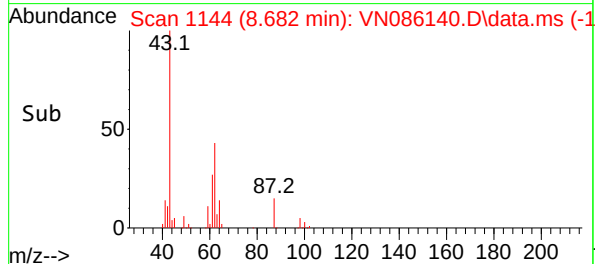
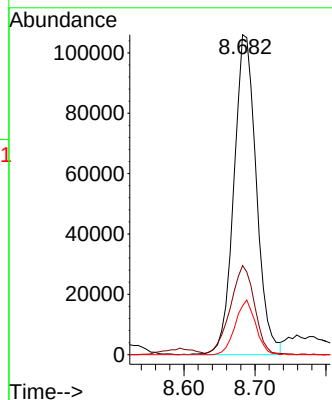
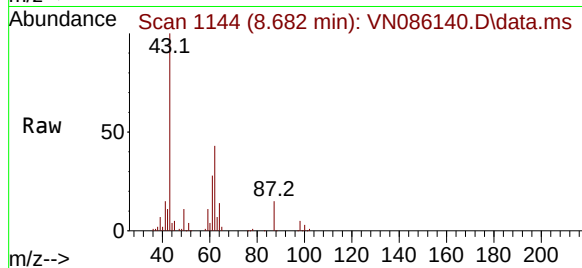
87 15.5 13.0 19.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/31/2025

Supervised By :Mahesh Dadoda 03/31/2025



#44

Trichloroethene

Concen: 47.968 ug/l

RT: 9.353 min Scan# 1258

Delta R.T. 0.006 min

Lab File: VN086140.D

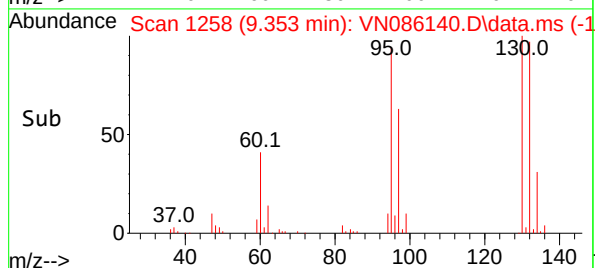
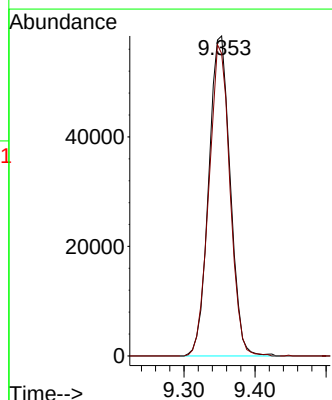
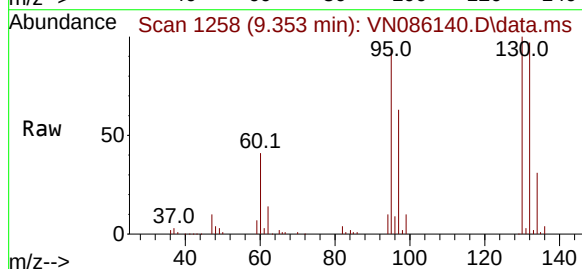
Acq: 28 Mar 2025 10:44

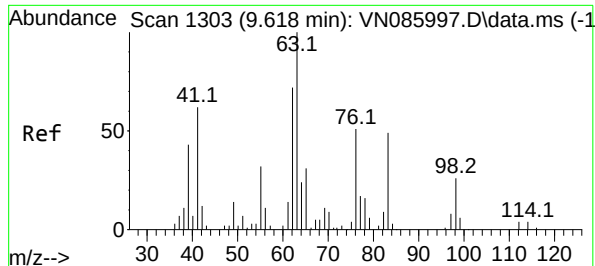
Tgt Ion:130 Resp: 122575

Ion Ratio Lower Upper

130 100

95 94.5 0.0 191.6





#45

1,2-Dichloropropane

Concen: 56.019 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. -0.000 min

Lab File: VN086140.D

Acq: 28 Mar 2025 10:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 63 Resp: 12562

Ion Ratio Lower Upper

63 100

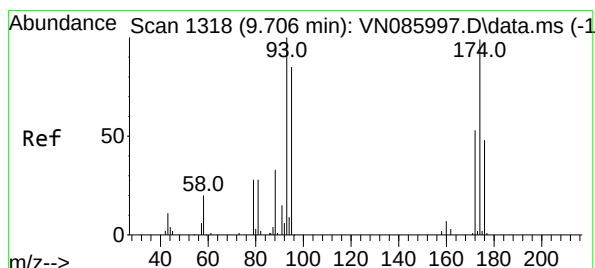
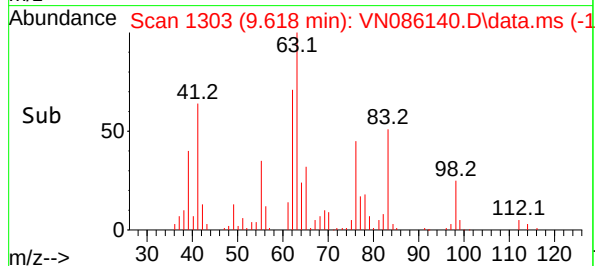
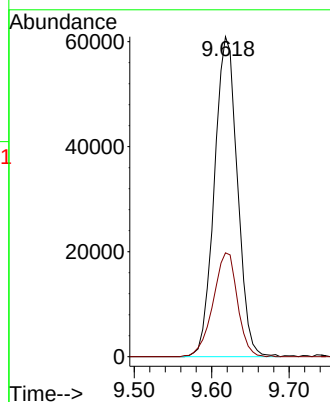
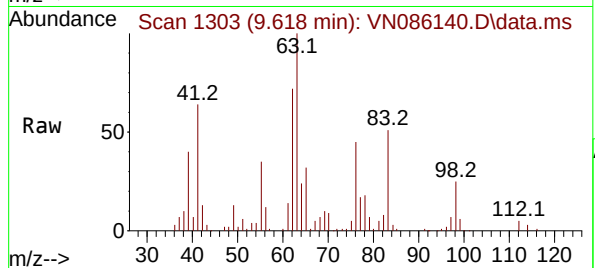
65 32.5 24.7 37.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/31/2025

Supervised By :Mahesh Dadoda 03/31/2025



#46

Dibromomethane

Concen: 53.497 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. -0.000 min

Lab File: VN086140.D

Acq: 28 Mar 2025 10:44

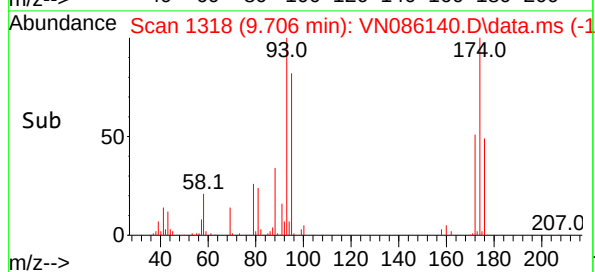
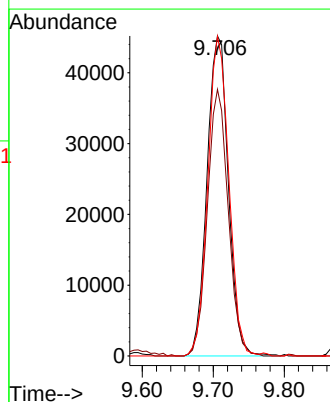
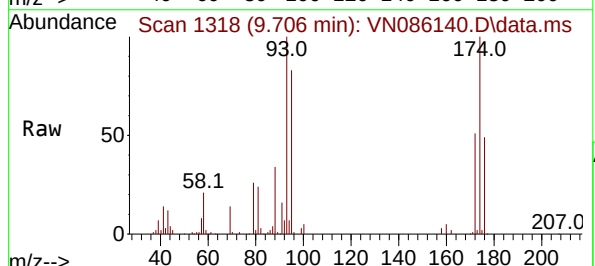
Tgt Ion: 93 Resp: 94345

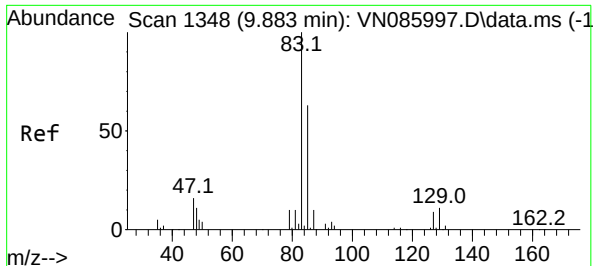
Ion Ratio Lower Upper

93 100

95 81.5 66.2 99.2

174 98.1 80.1 120.1





#47

Bromodichloromethane

Concen: 51.864 ug/l

RT: 9.882 min Scan# 1348

Delta R.T. -0.000 min

Lab File: VN086140.D

Acq: 28 Mar 2025 10:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

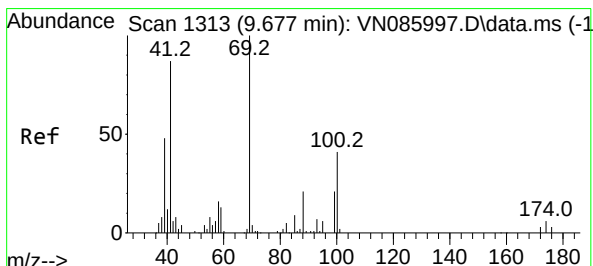
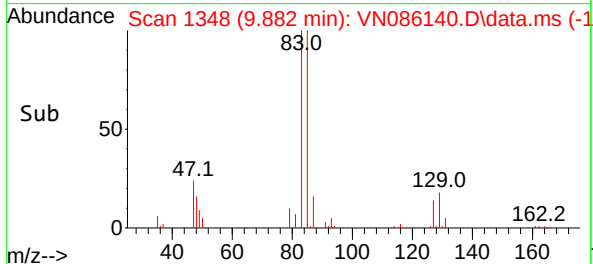
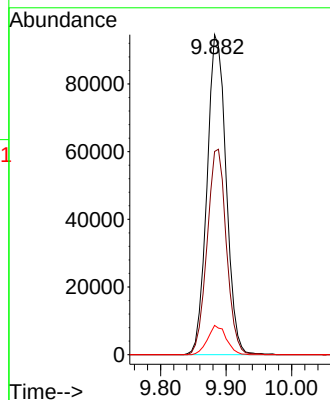
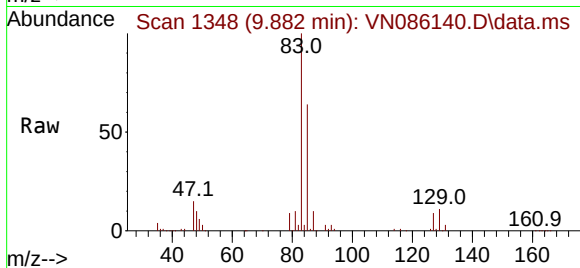
Tgt Ion:	83	Resp:	19115
Ion Ratio	Lower	Upper	
83	100		
85	63.5	50.2	75.2
127	9.1	7.1	10.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/31/2025

Supervised By :Mahesh Dadoda 03/31/2025



#48

Methyl methacrylate

Concen: 57.195 ug/l

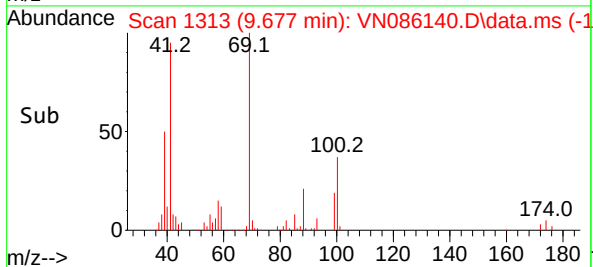
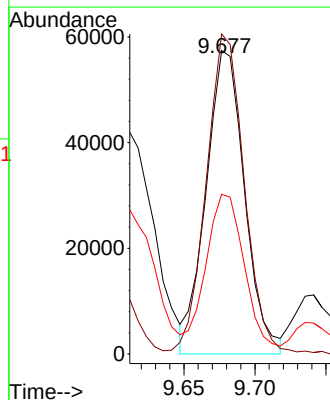
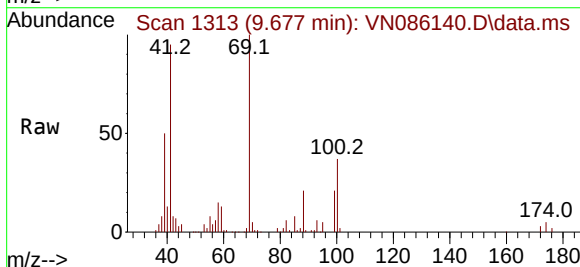
RT: 9.677 min Scan# 1313

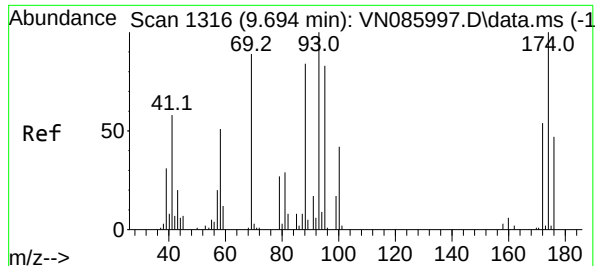
Delta R.T. -0.000 min

Lab File: VN086140.D

Acq: 28 Mar 2025 10:44

Tgt Ion:	41	Resp:	108367
Ion Ratio	Lower	Upper	
41	100		
69	104.4	83.1	124.7
39	53.7	45.6	68.4





#49

1,4-Dioxane

Concen: 1187.958 ug/l

RT: 9.688 min Scan# 1315

Delta R.T. -0.006 min

Lab File: VN086140.D

Acq: 28 Mar 2025 10:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 88 Resp: 53208

Ion Ratio Lower Upper

88 100

43 26.2 21.7 32.5

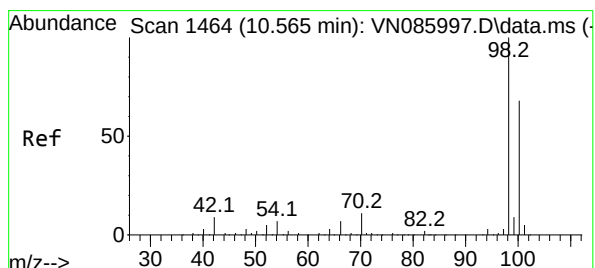
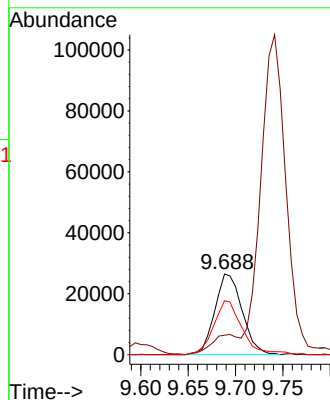
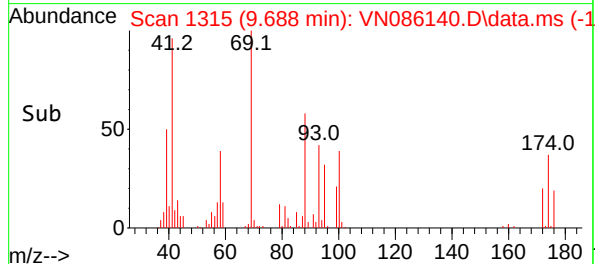
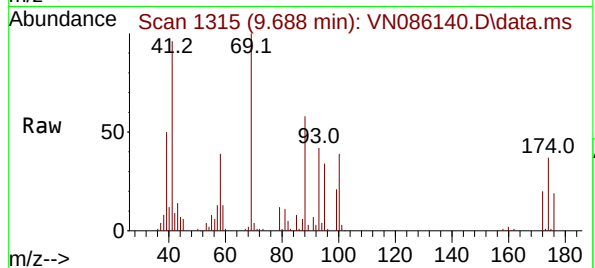
58 70.1 50.4 75.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/31/2025

Supervised By :Mahesh Dadoda 03/31/2025



#50

Toluene-d8

Concen: 49.339 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN086140.D

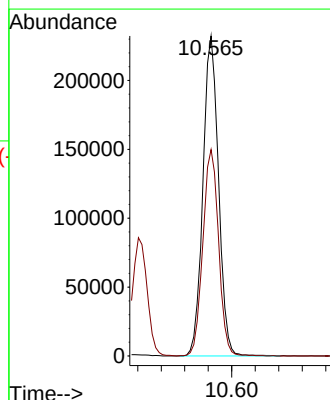
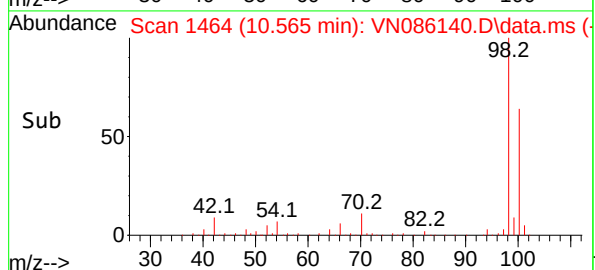
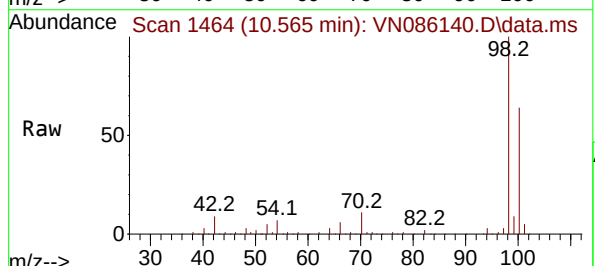
Acq: 28 Mar 2025 10:44

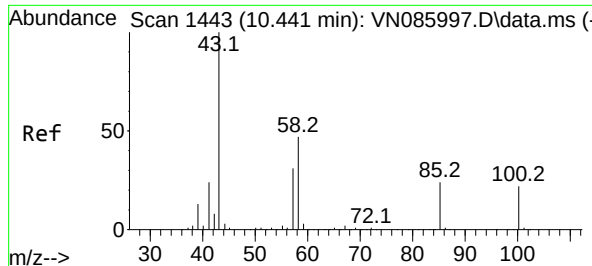
Tgt Ion: 98 Resp: 427108

Ion Ratio Lower Upper

98 100

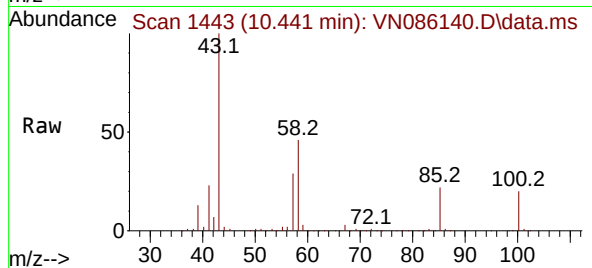
100 65.2 53.1 79.7





#51
4-Methyl-2-Pentanone
Concen: 301.956 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN086140.D
Acq: 28 Mar 2025 10:44

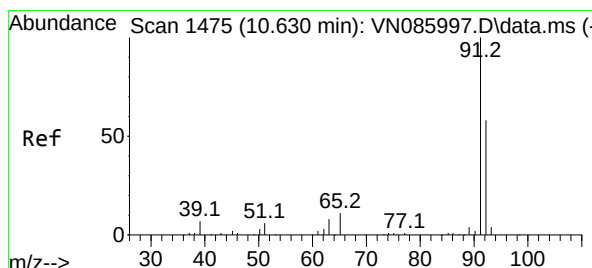
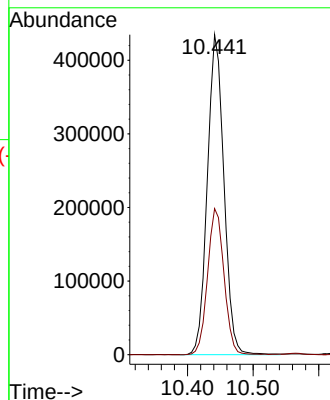
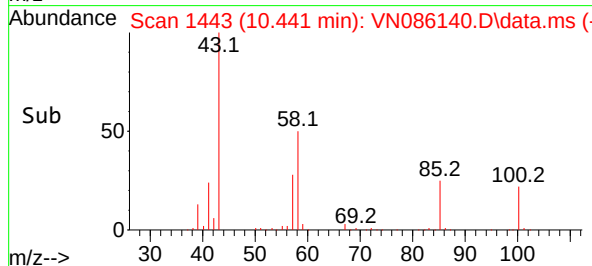
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 43 Resp: 76461
Ion Ratio Lower Upper
43 100
58 45.3 37.4 56.0

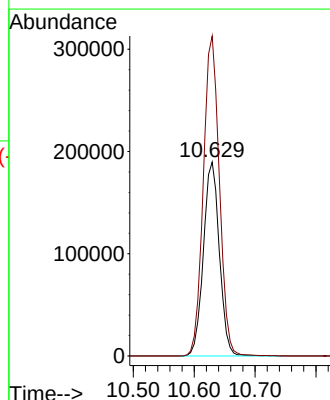
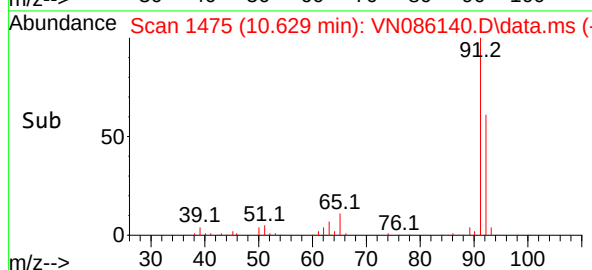
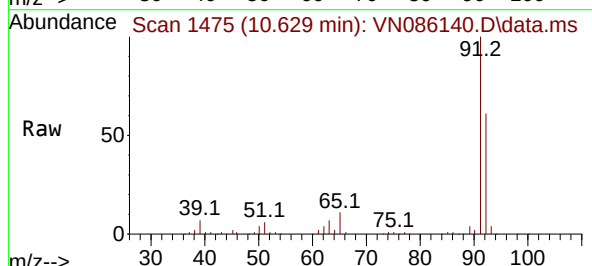
Manual Integrations
APPROVED

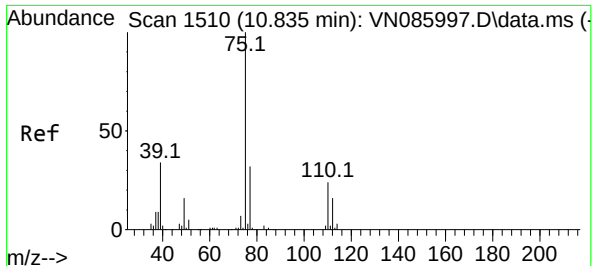
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#52
Toluene
Concen: 56.980 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN086140.D
Acq: 28 Mar 2025 10:44

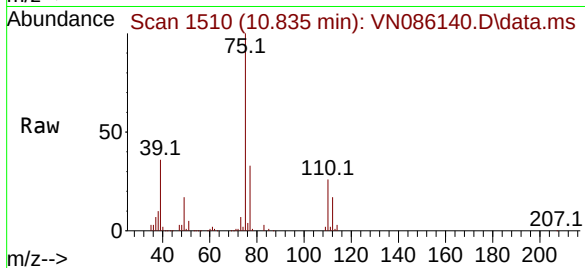
Tgt Ion: 92 Resp: 344803
Ion Ratio Lower Upper
92 100
91 166.6 136.2 204.4





#53
t-1,3-Dichloropropene
Concen: 52.997 ug/l
RT: 10.835 min Scan# 1510
Delta R.T. -0.000 min
Lab File: VN086140.D
Acq: 28 Mar 2025 10:44

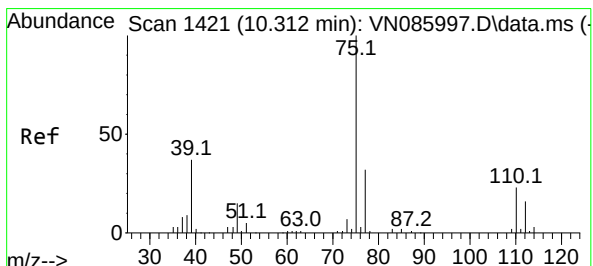
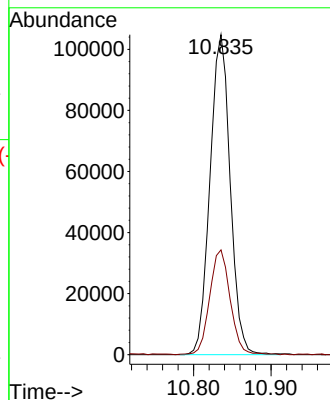
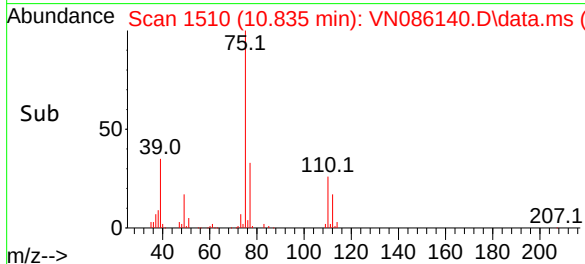
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 75 Resp: 18970
Ion Ratio Lower Upper
75 100
77 32.8 25.3 37.9

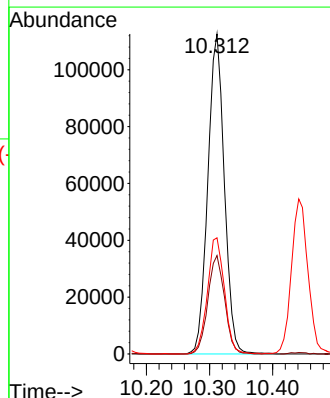
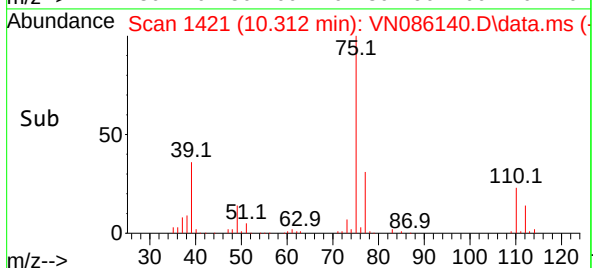
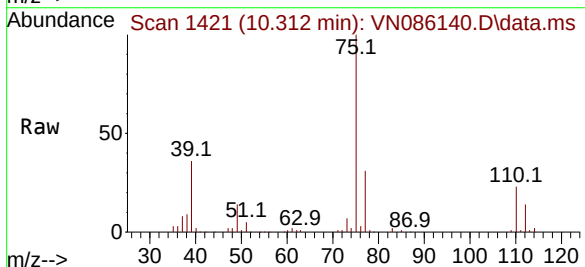
Manual Integrations
APPROVED

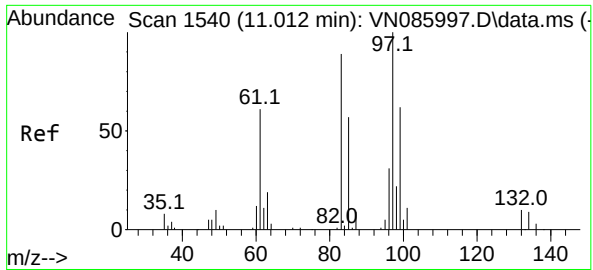
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#54
cis-1,3-Dichloropropene
Concen: 54.061 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. -0.000 min
Lab File: VN086140.D
Acq: 28 Mar 2025 10:44

Tgt Ion: 75 Resp: 204166
Ion Ratio Lower Upper
75 100
77 30.7 25.3 37.9
39 36.3 29.6 44.4





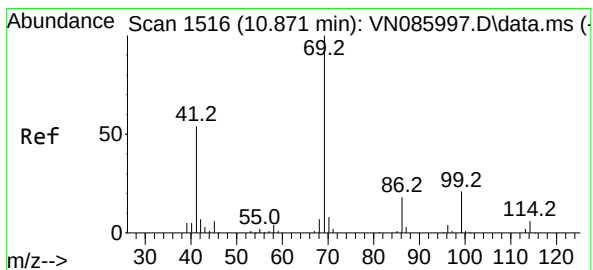
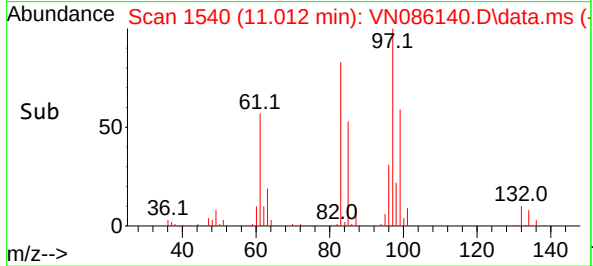
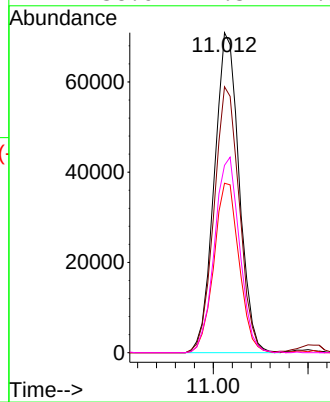
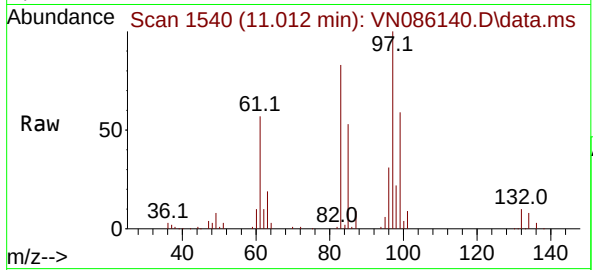
#55
1,1,2-Trichloroethane
Concen: 56.002 ug/l
RT: 11.012 min Scan# 1540
Delta R.T. -0.000 min
Lab File: VN086140.D
Acq: 28 Mar 2025 10:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:	97	Resp:	12934
Ion	Ratio	Lower	Upper
97	100		
83	83.1	71.2	106.8
85	52.9	45.4	68.0
99	58.6	49.5	74.3

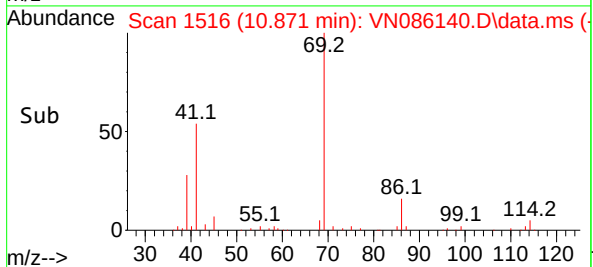
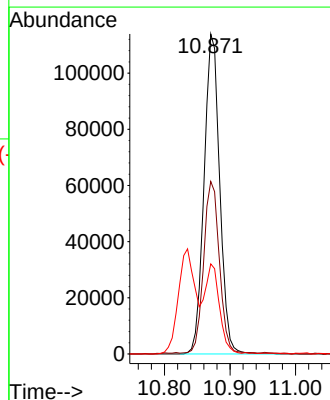
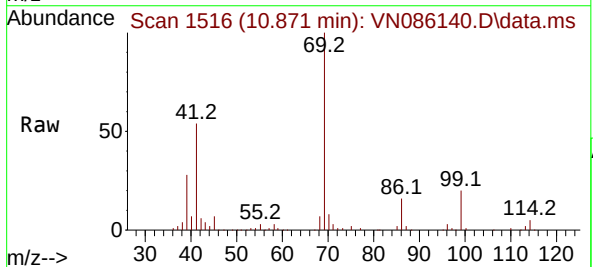
Manual Integrations
APPROVED

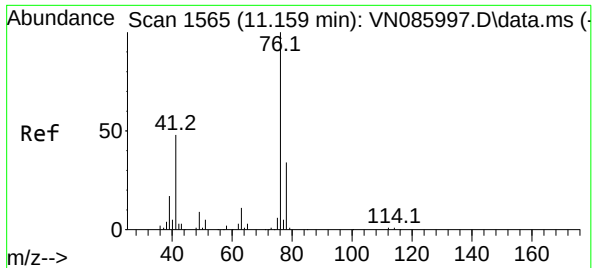
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#56
Ethyl methacrylate
Concen: 52.177 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VN086140.D
Acq: 28 Mar 2025 10:44

Tgt Ion:	69	Resp:	189636
Ion	Ratio	Lower	Upper
69	100		
41	54.0	41.6	62.4
39	26.6	21.8	32.8





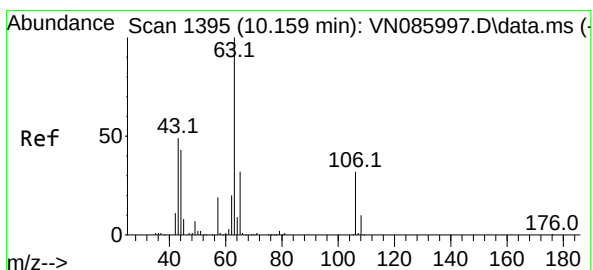
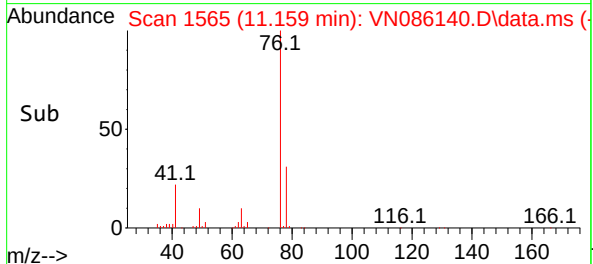
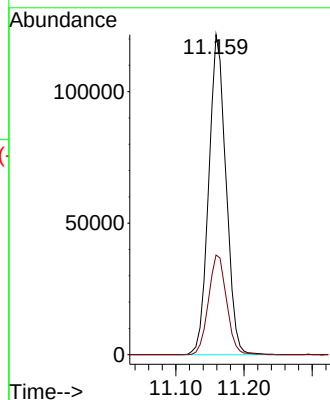
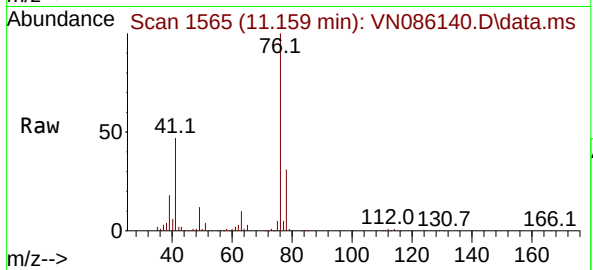
#57
1,3-Dichloropropane
Concen: 54.554 ug/l
RT: 11.159 min Scan# 1565
Delta R.T. -0.000 min
Lab File: VN086140.D
Acq: 28 Mar 2025 10:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 21400
Ion Ratio Lower Upper
76 100
78 32.7 25.8 38.6

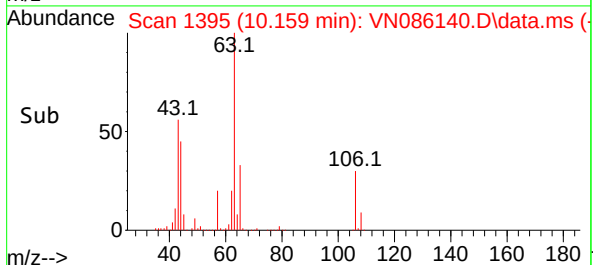
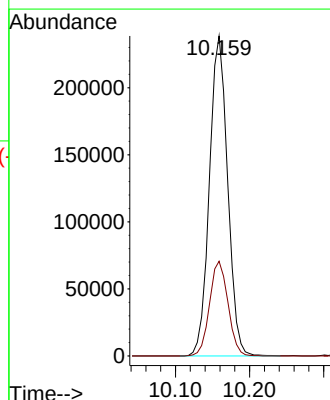
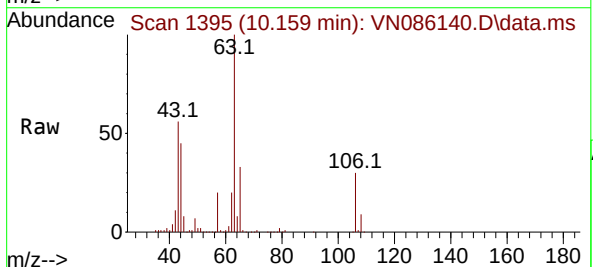
Manual Integrations
APPROVED

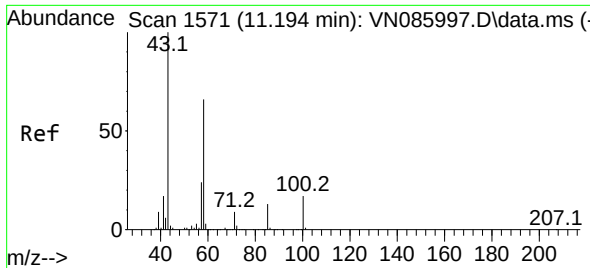
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#58
2-Chloroethyl Vinyl ether
Concen: 286.551 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VN086140.D
Acq: 28 Mar 2025 10:44

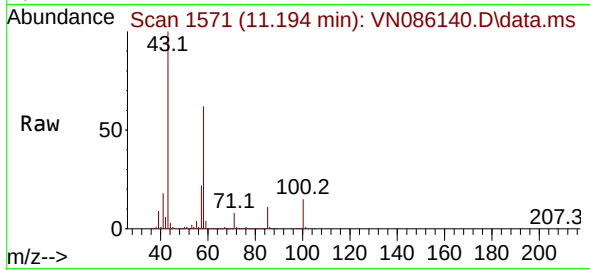
Tgt Ion: 63 Resp: 407237
Ion Ratio Lower Upper
63 100
106 29.9 25.0 37.6





#59
2-Hexanone
Concen: 310.491 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. -0.000 min
Lab File: VN086140.D
Acq: 28 Mar 2025 10:44

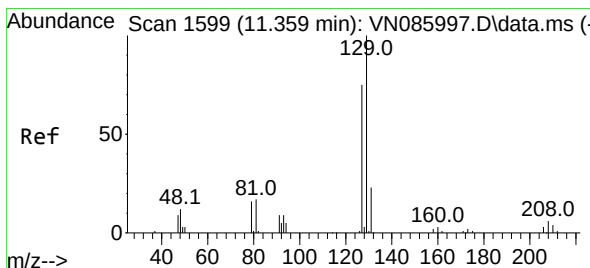
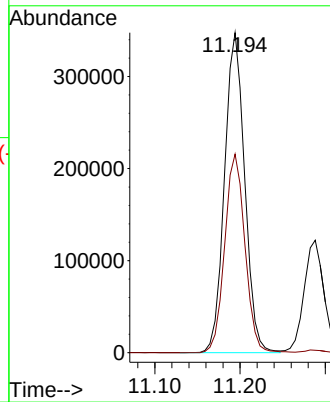
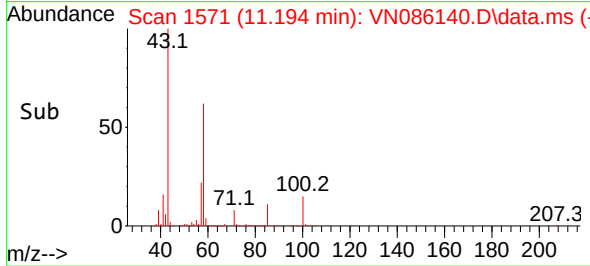
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 43 Resp: 572758
Ion Ratio Lower Upper
43 100
58 62.2 32.4 97.2

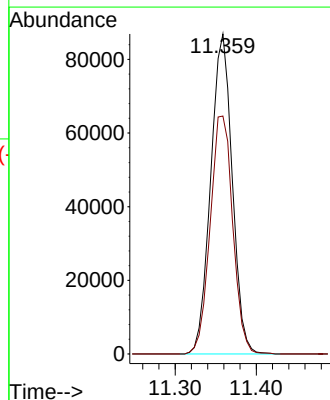
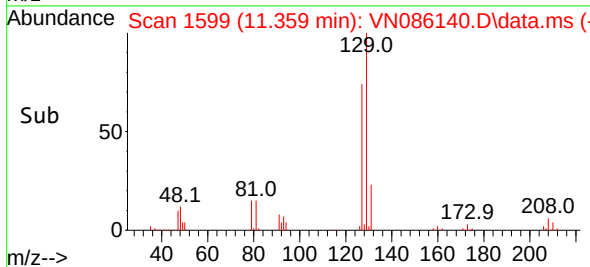
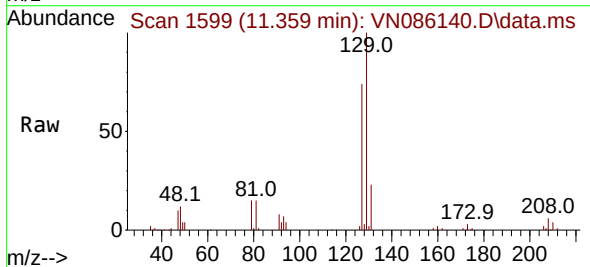
Manual Integrations
APPROVED

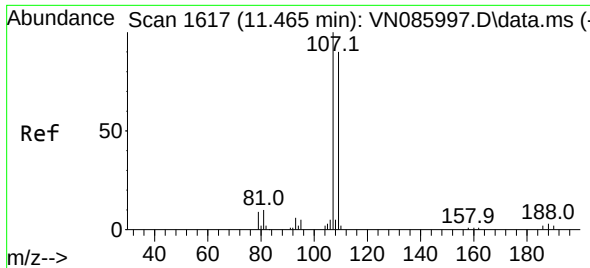
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#60
Dibromochloromethane
Concen: 53.688 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VN086140.D
Acq: 28 Mar 2025 10:44

Tgt Ion:129 Resp: 160006
Ion Ratio Lower Upper
129 100
127 78.0 37.8 113.4





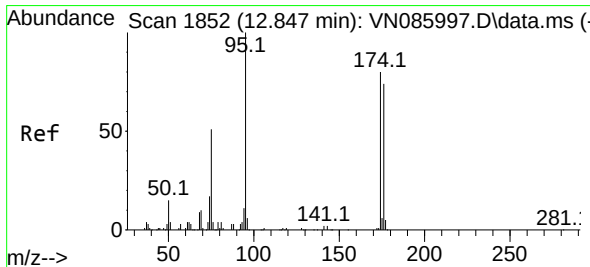
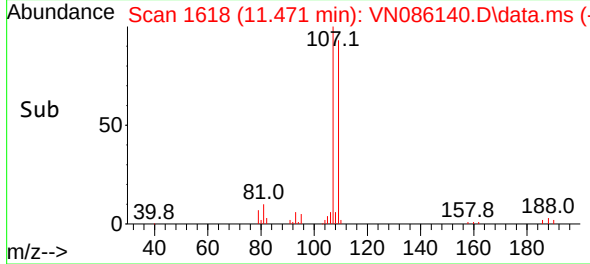
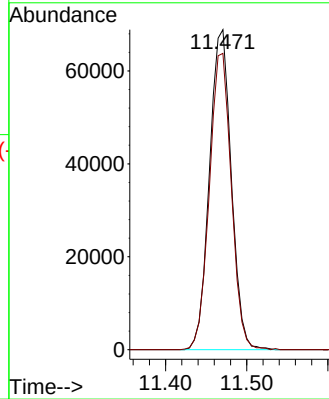
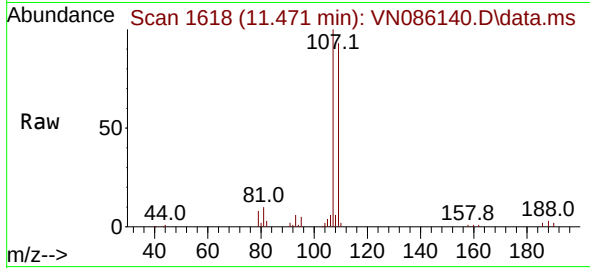
#61
1,2-Dibromoethane
Concen: 54.221 ug/l
RT: 11.471 min Scan# 1618
Delta R.T. 0.006 min
Lab File: VN086140.D
Acq: 28 Mar 2025 10:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:107 Resp: 12856
Ion Ratio Lower Upper
107 100
109 93.1 73.3 109.9

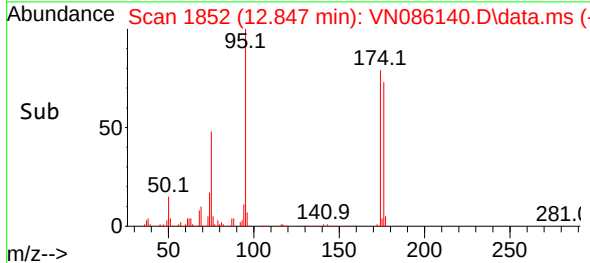
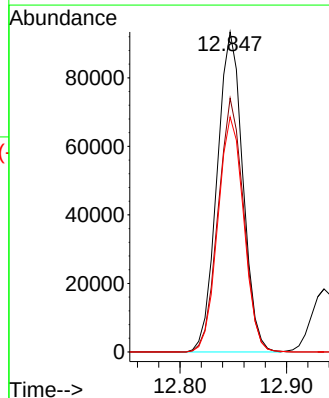
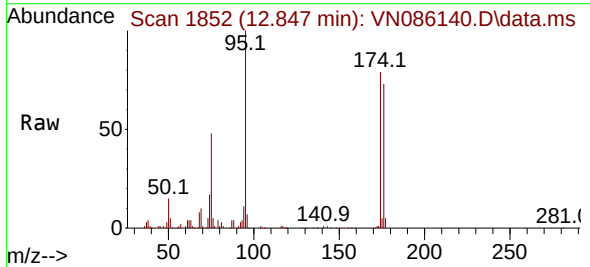
Manual Integrations
APPROVED

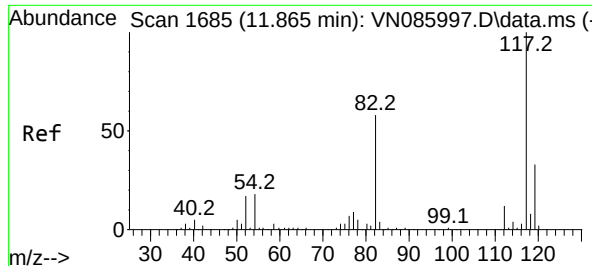
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#62
4-Bromofluorobenzene
Concen: 50.784 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086140.D
Acq: 28 Mar 2025 10:44

Tgt Ion: 95 Resp: 156781
Ion Ratio Lower Upper
95 100
174 78.3 0.0 156.8
176 73.9 0.0 152.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1685

Delta R.T. -0.000 min

Lab File: VN086140.D

Acq: 28 Mar 2025 10:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion:117 Resp: 32157

Ion Ratio Lower Upper

117 100

82 56.8 46.7 70.1

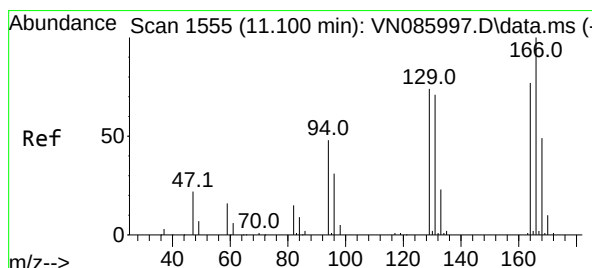
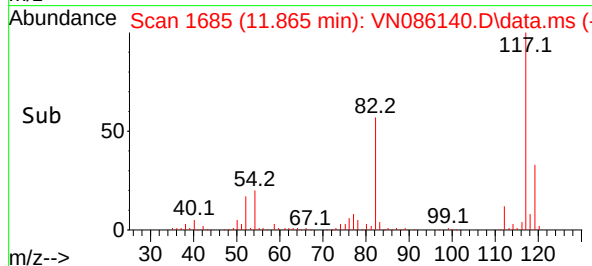
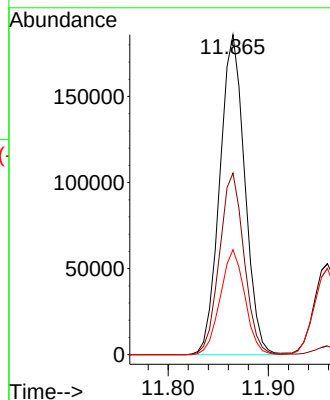
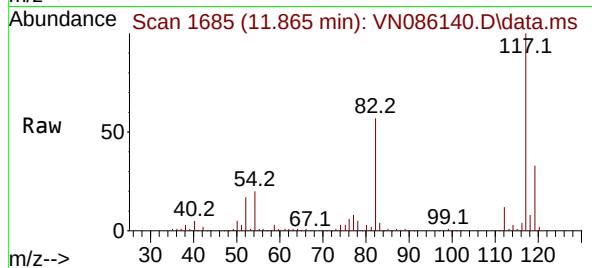
119 32.8 26.5 39.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/31/2025

Supervised By :Mahesh Dadoda 03/31/2025



#64

Tetrachloroethene

Concen: 48.733 ug/l

RT: 11.100 min Scan# 1555

Delta R.T. -0.000 min

Lab File: VN086140.D

Acq: 28 Mar 2025 10:44

Tgt Ion:164 Resp: 125011

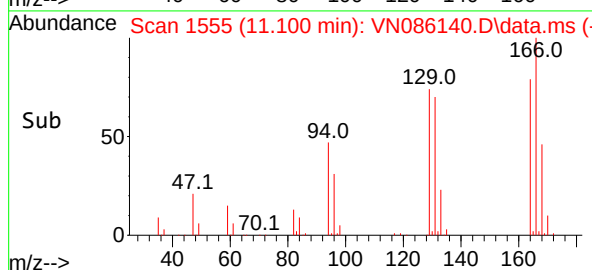
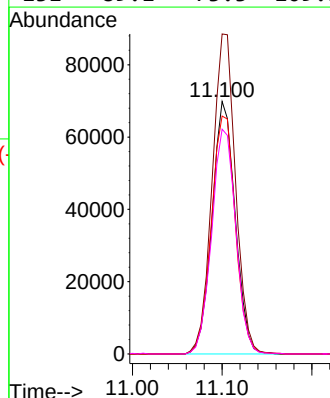
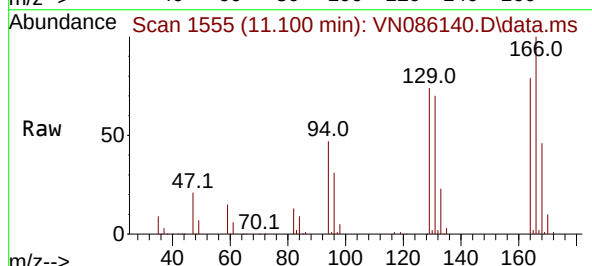
Ion Ratio Lower Upper

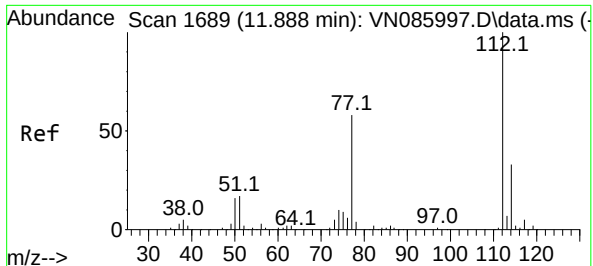
164 100

166 126.8 103.7 155.5

129 94.2 77.1 115.7

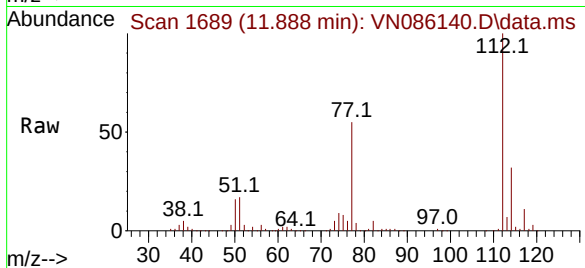
131 89.1 73.3 109.9





#65
Chlorobenzene
Concen: 50.066 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. -0.000 min
Lab File: VN086140.D
Acq: 28 Mar 2025 10:44

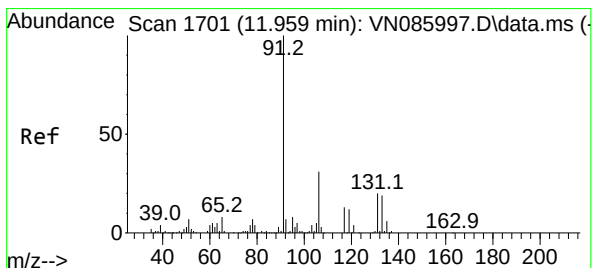
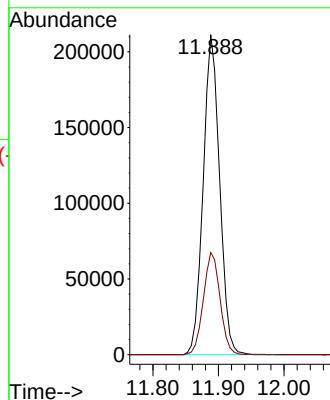
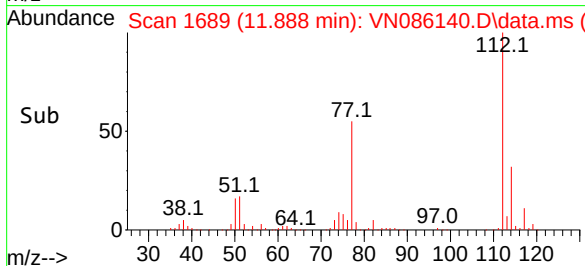
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



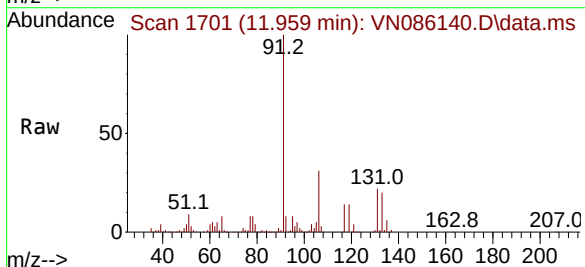
Tgt Ion:112 Resp: 368410
Ion Ratio Lower Upper
112 100
114 31.9 26.3 39.5

Manual Integrations
APPROVED

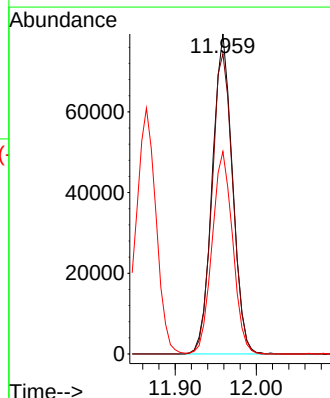
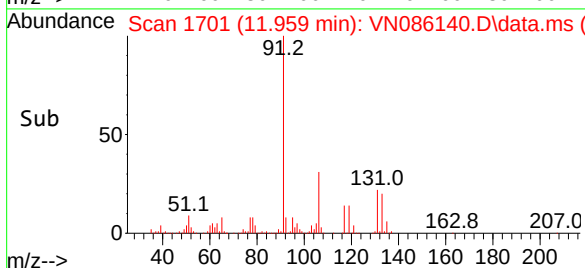
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025

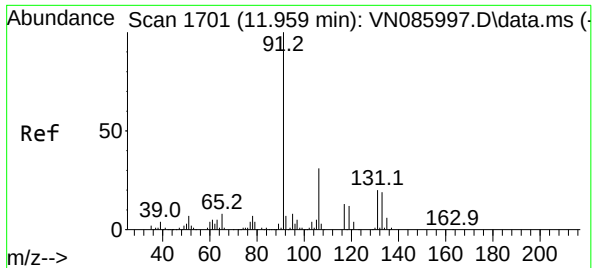


#66
1,1,1,2-Tetrachloroethane
Concen: 50.116 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN086140.D
Acq: 28 Mar 2025 10:44



Tgt Ion:131 Resp: 137086
Ion Ratio Lower Upper
131 100
133 96.7 47.0 141.0
119 64.4 31.4 94.0





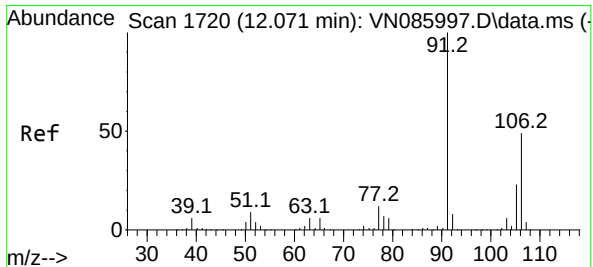
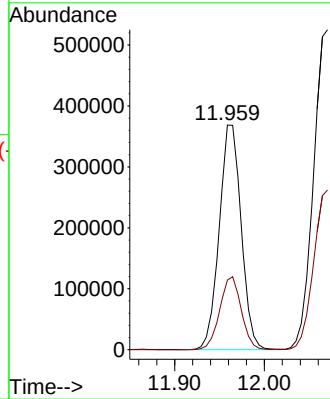
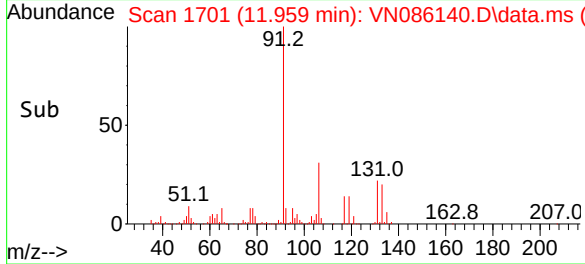
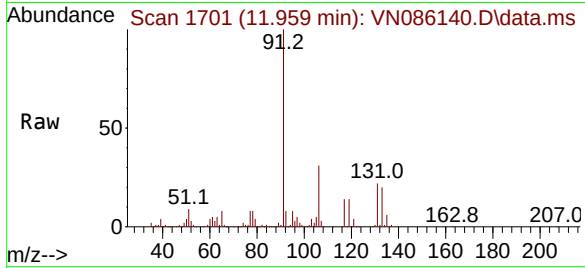
#67
Ethyl Benzene
Concen: 53.301 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN086140.D
Acq: 28 Mar 2025 10:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 627394
Ion Ratio Lower Upper
91 100
106 31.0 24.5 36.7

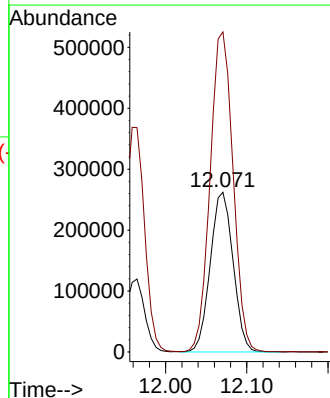
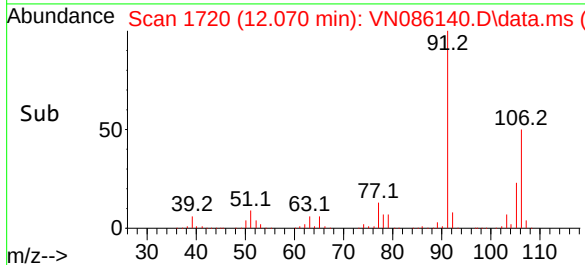
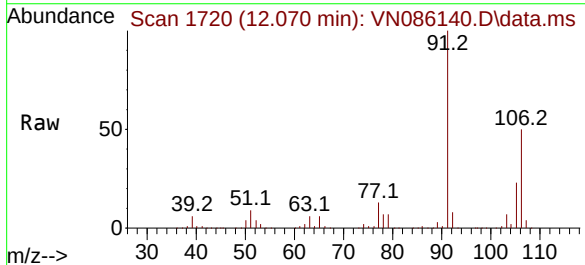
Manual Integrations
APPROVED

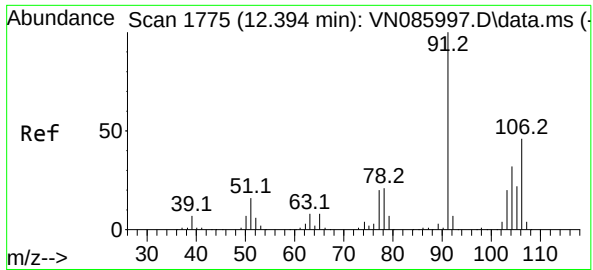
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#68
m/p-Xylenes
Concen: 110.663 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN086140.D
Acq: 28 Mar 2025 10:44

Tgt Ion:106 Resp: 511977
Ion Ratio Lower Upper
106 100
91 201.4 163.9 245.9





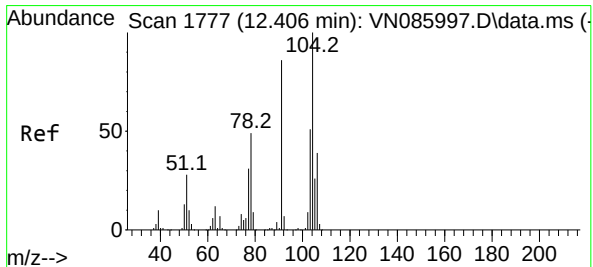
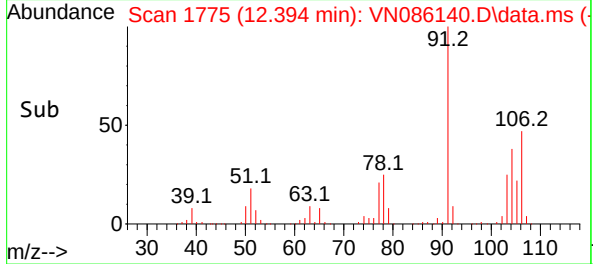
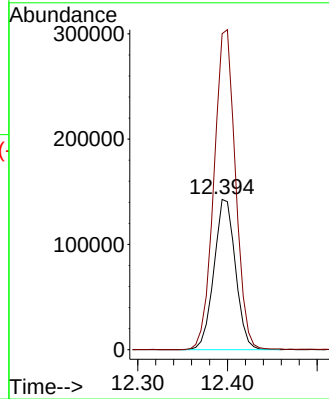
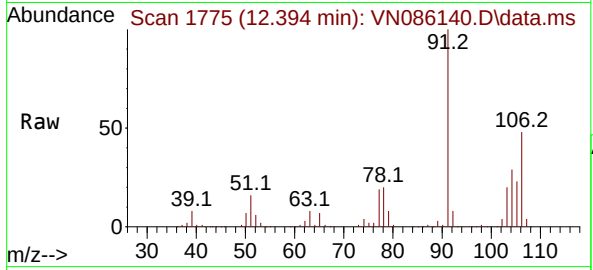
#69
o-Xylene
Concen: 55.997 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. -0.000 min
Lab File: VN086140.D
Acq: 28 Mar 2025 10:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:106 Resp: 237775
Ion Ratio Lower Upper
106 100
91 213.5 109.1 327.2

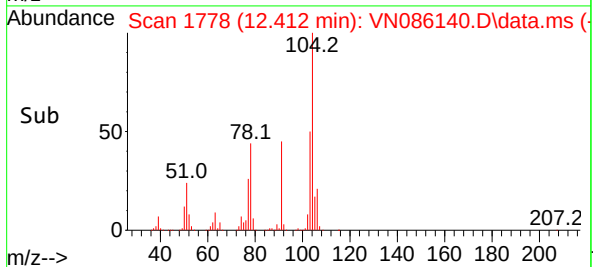
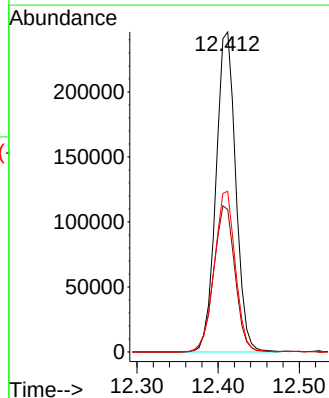
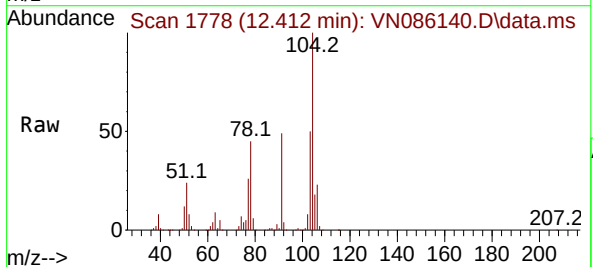
Manual Integrations
APPROVED

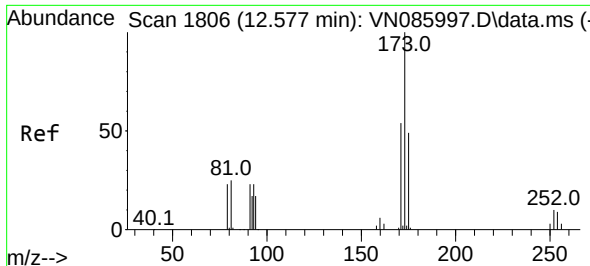
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#70
Styrene
Concen: 57.481 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. 0.006 min
Lab File: VN086140.D
Acq: 28 Mar 2025 10:44

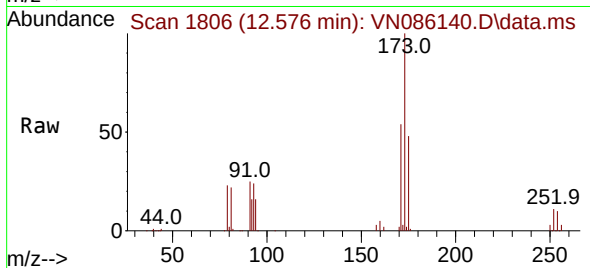
Tgt Ion:104 Resp: 416893
Ion Ratio Lower Upper
104 100
78 49.4 41.4 62.2
103 53.5 42.9 64.3





#71
Bromoform
Concen: 49.359 ug/l
RT: 12.576 min Scan# 11286
Delta R.T. -0.000 min
Lab File: VN086140.D
Acq: 28 Mar 2025 10:44

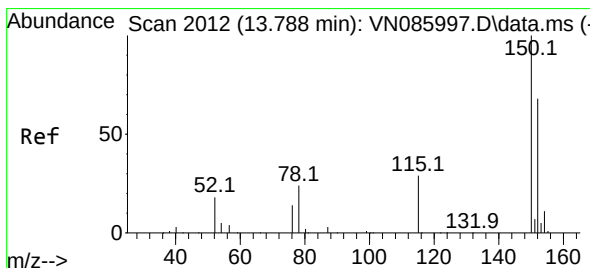
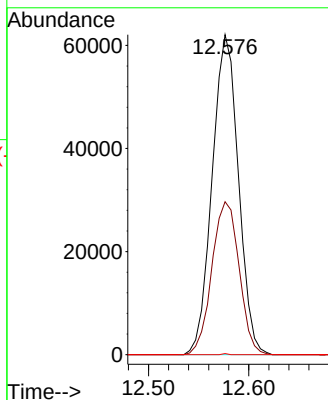
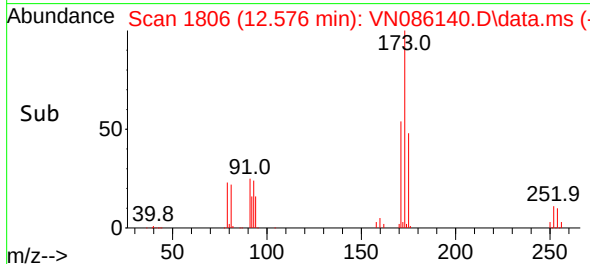
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



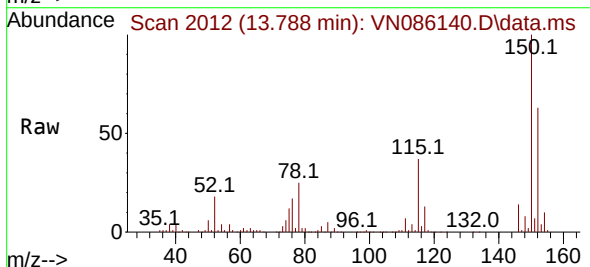
Tgt Ion:173 Resp: 11286
Ion Ratio Lower Upper
173 100
175 49.6 24.3 73.0
254 0.1 0.0 0.0

Manual Integrations
APPROVED

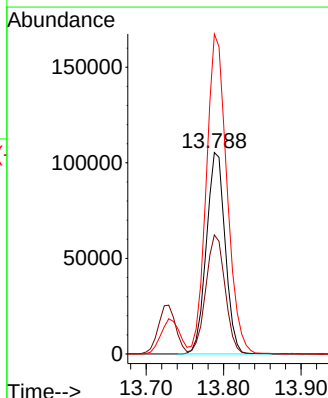
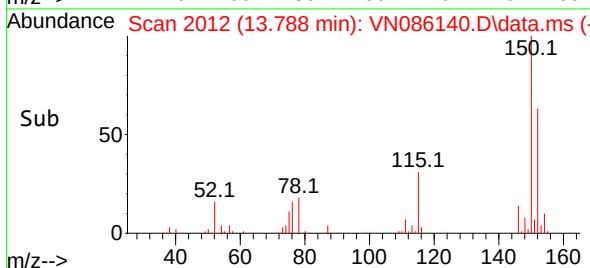
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025

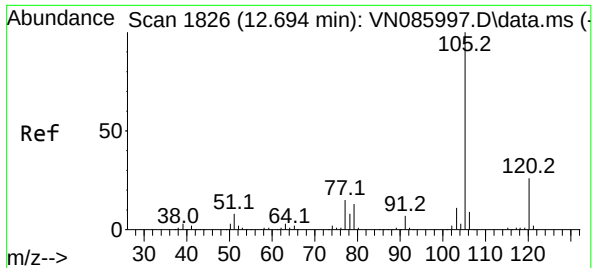


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN086140.D
Acq: 28 Mar 2025 10:44



Tgt Ion:152 Resp: 177687
Ion Ratio Lower Upper
152 100
115 60.1 31.1 93.2
150 174.1 0.0 359.6





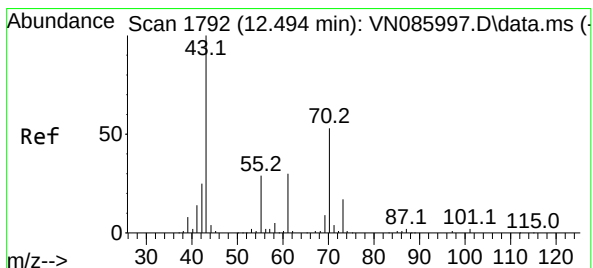
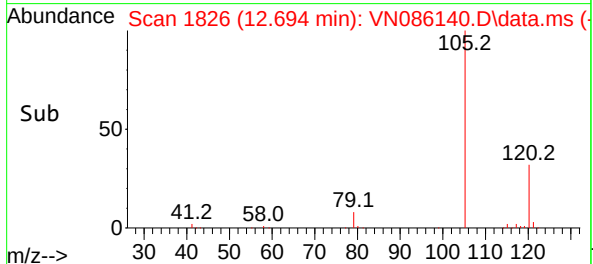
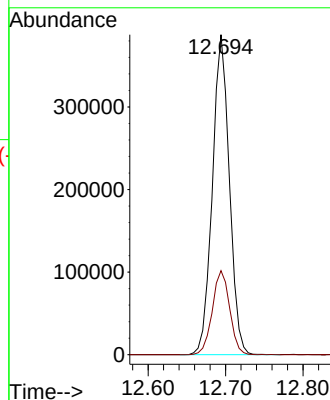
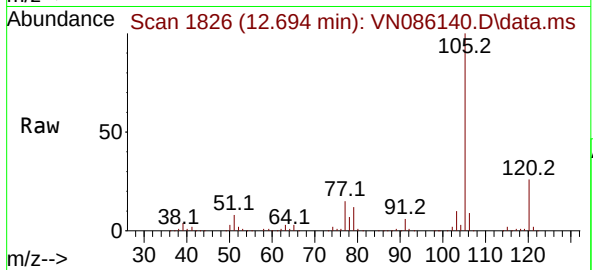
#73
Isopropylbenzene
Concen: 48.698 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. -0.000 min
Lab File: VN086140.D
Acq: 28 Mar 2025 10:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 590904
Ion Ratio Lower Upper
105 100
120 26.8 13.0 39.0

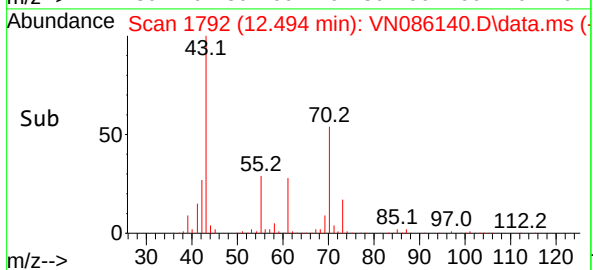
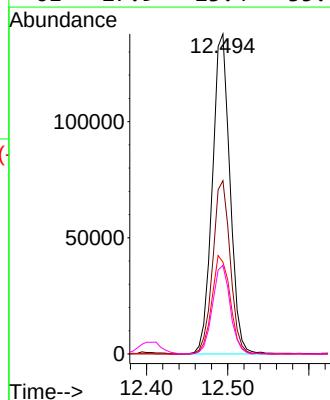
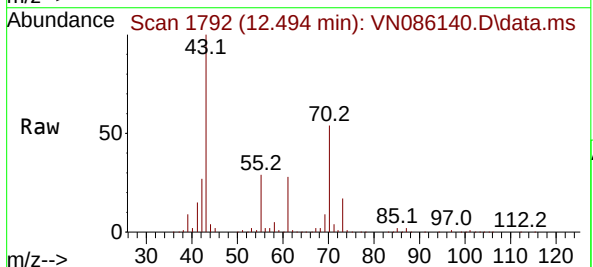
Manual Integrations
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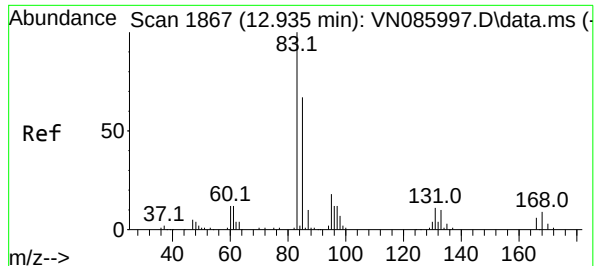
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#74
N-ethyl acetate
Concen: 51.135 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. -0.000 min
Lab File: VN086140.D
Acq: 28 Mar 2025 10:44

Tgt Ion: 43 Resp: 207590
Ion Ratio Lower Upper
43 100
70 53.7 43.0 64.4
55 32.0 23.8 35.8
61 27.9 23.4 35.0





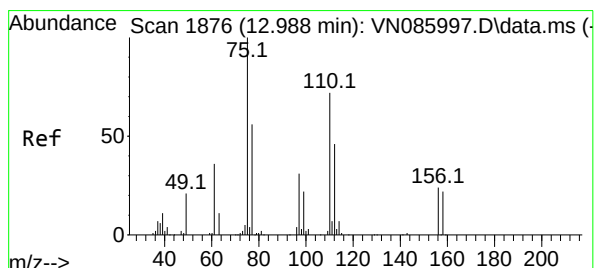
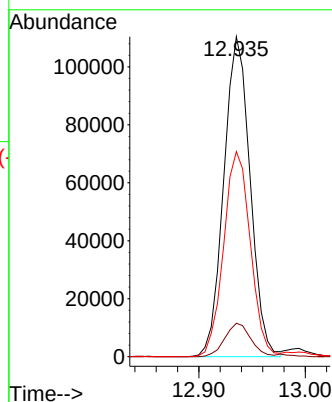
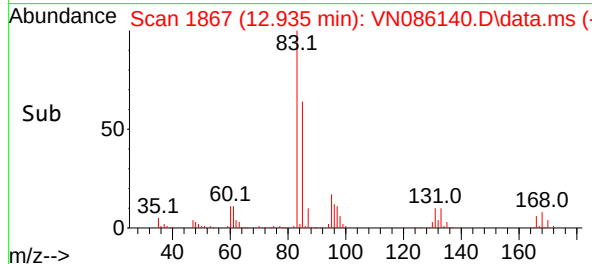
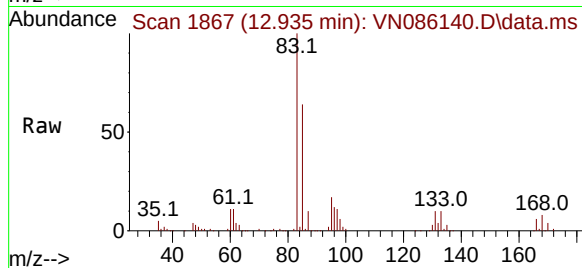
#75
1,1,2,2-Tetrachloroethane
Concen: 46.214 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. -0.000 min
Lab File: VN086140.D
Acq: 28 Mar 2025 10:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 18971
Ion Ratio Lower Upper
83 100
131 10.3 5.5 16.5
85 64.9 32.6 97.8

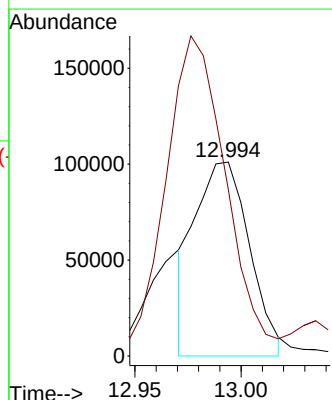
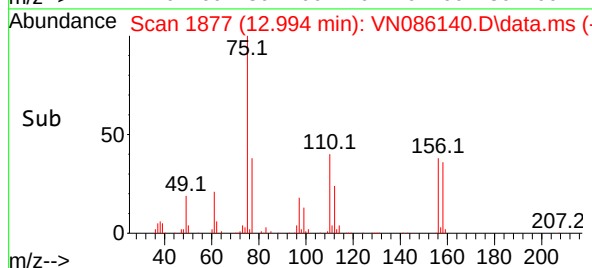
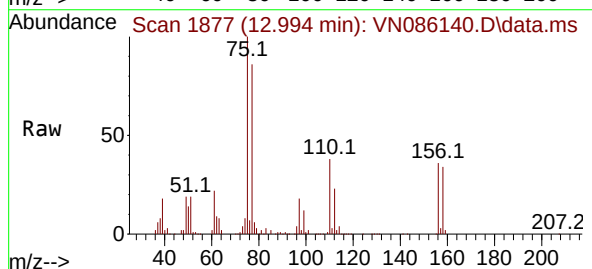
Manual Integrations
APPROVED

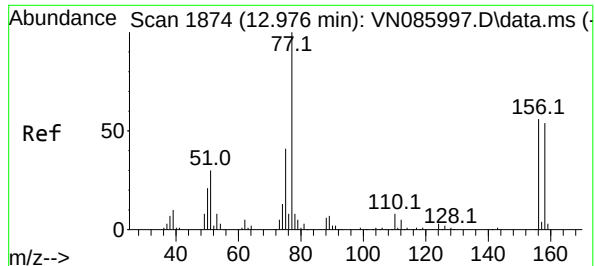
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#76
1,2,3-Trichloropropane
Concen: 45.392 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. 0.006 min
Lab File: VN086140.D
Acq: 28 Mar 2025 10:44

Tgt Ion: 75 Resp: 180572
Ion Ratio Lower Upper
75 100
77 183.1 83.7 251.0





#77

Bromobenzene

Concen: 46.950 ug/l

RT: 12.976 min Scan# 1874

Delta R.T. -0.000 min

Lab File: VN086140.D

Acq: 28 Mar 2025 10:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion:156 Resp: 15885

Ion Ratio Lower Upper

156 100

77 208.1 104.1 312.3

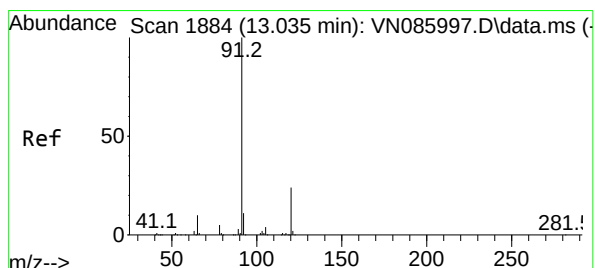
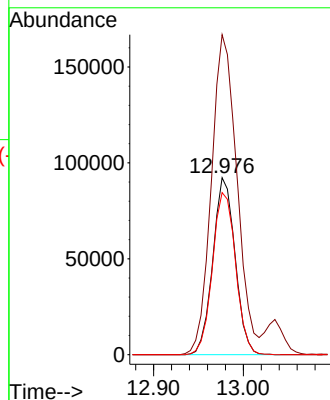
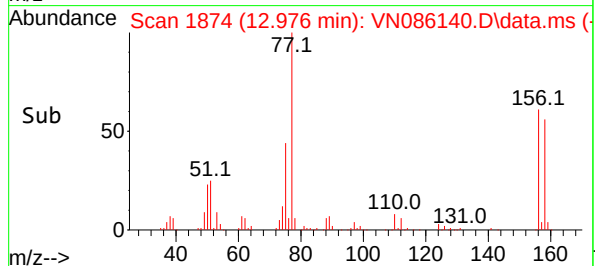
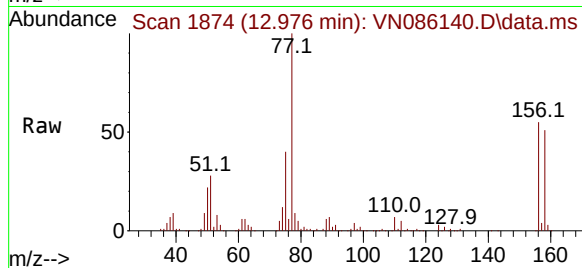
158 95.4 49.0 147.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/31/2025

Supervised By :Mahesh Dadoda 03/31/2025



#78

n-propylbenzene

Concen: 51.848 ug/l

RT: 13.035 min Scan# 1884

Delta R.T. -0.000 min

Lab File: VN086140.D

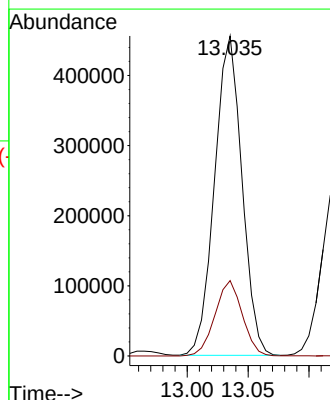
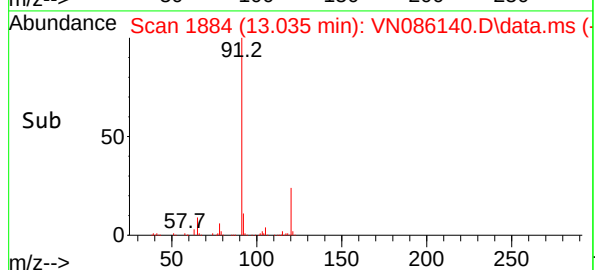
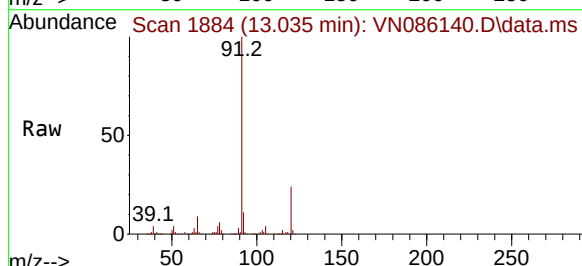
Acq: 28 Mar 2025 10:44

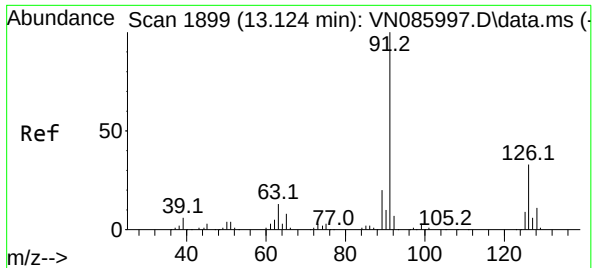
Tgt Ion: 91 Resp: 712397

Ion Ratio Lower Upper

91 100

120 23.5 11.7 35.0





#79

2-Chlorotoluene

Concen: 49.052 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. -0.000 min

Lab File: VN086140.D

Acq: 28 Mar 2025 10:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 91 Resp: 447660

Ion Ratio Lower Upper

91 100

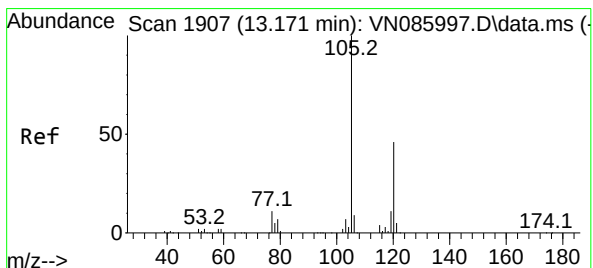
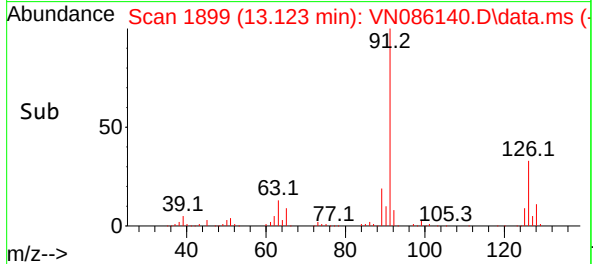
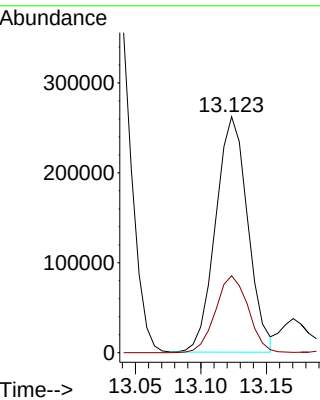
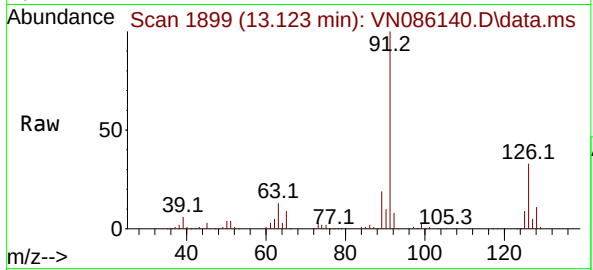
126 33.1 16.4 49.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/31/2025

Supervised By :Mahesh Dadoda 03/31/2025



#80

1,3,5-Trimethylbenzene

Concen: 51.948 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VN086140.D

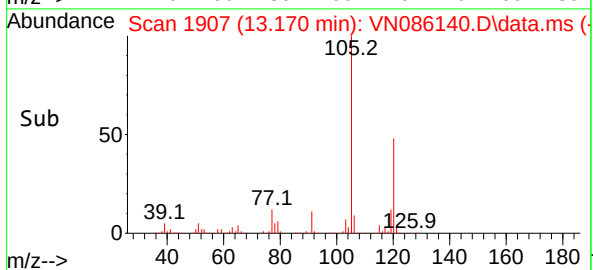
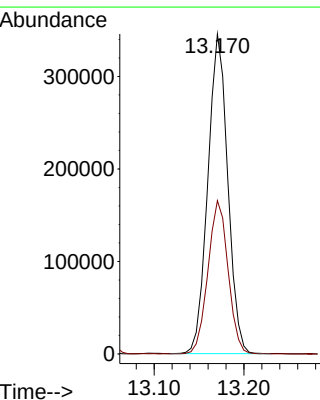
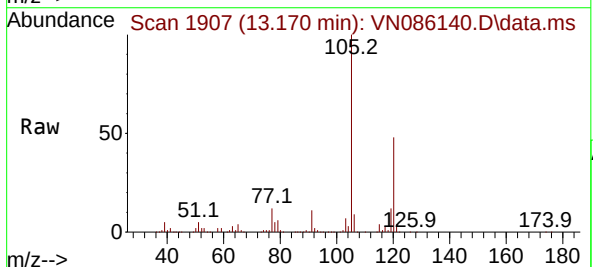
Acq: 28 Mar 2025 10:44

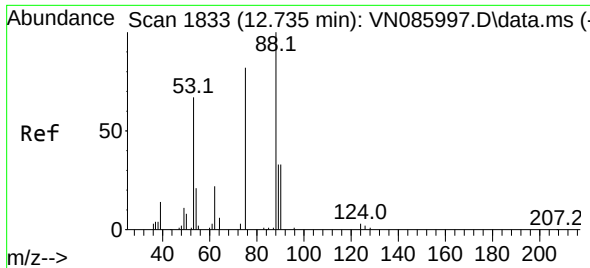
Tgt Ion:105 Resp: 532182

Ion Ratio Lower Upper

105 100

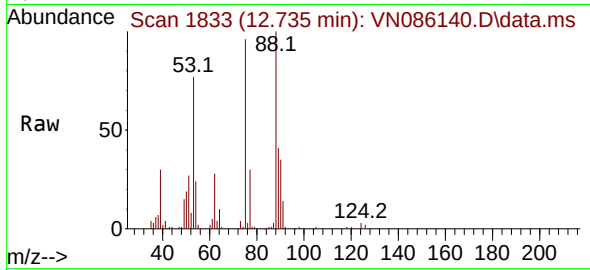
120 48.6 23.7 71.1





#81
trans-1,4-Dichloro-2-butene
Concen: 46.864 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. -0.000 min
Lab File: VN086140.D
Acq: 28 Mar 2025 10:44

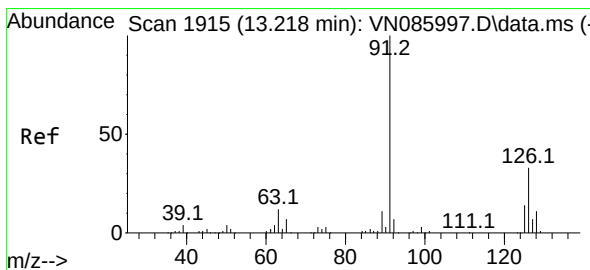
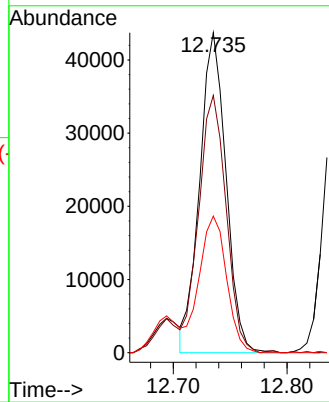
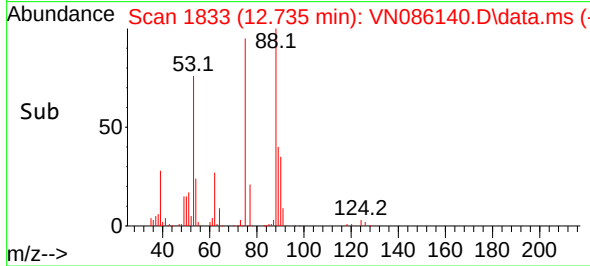
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 75 Resp: 70514
Ion Ratio Lower Upper
75 100
53 83.9 66.0 99.0
89 44.9 36.9 55.3

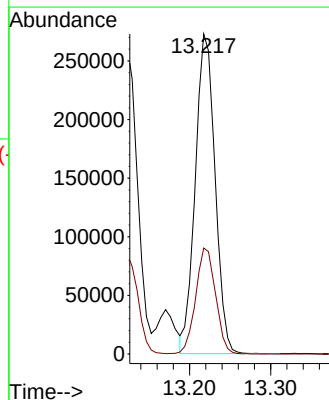
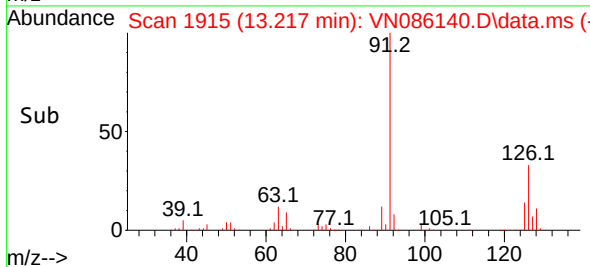
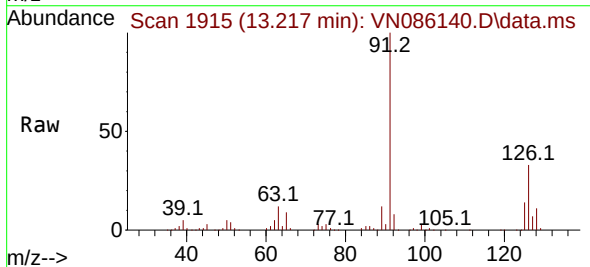
Manual Integrations
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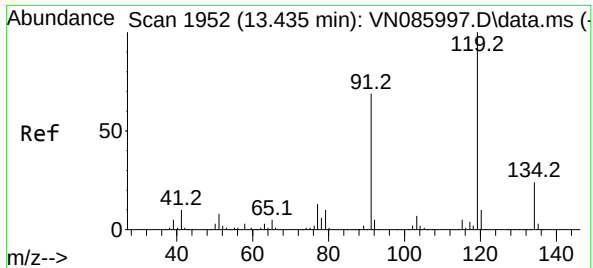
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#82
4-Chlorotoluene
Concen: 49.263 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. -0.000 min
Lab File: VN086140.D
Acq: 28 Mar 2025 10:44

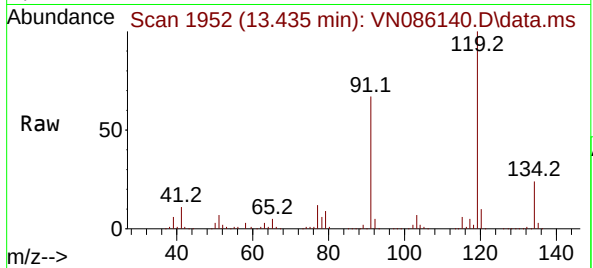
Tgt Ion: 91 Resp: 462335
Ion Ratio Lower Upper
91 100
126 33.4 16.1 48.2





#83
tert-Butylbenzene
Concen: 48.020 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. -0.000 min
Lab File: VN086140.D
Acq: 28 Mar 2025 10:44

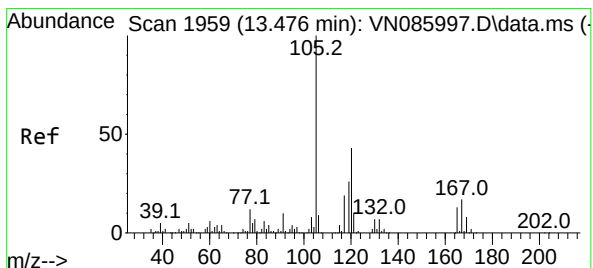
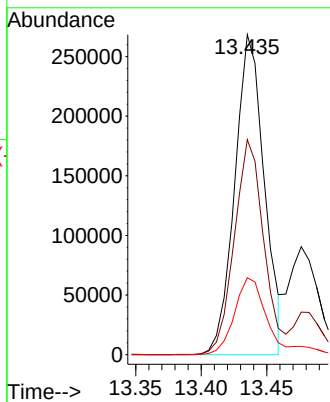
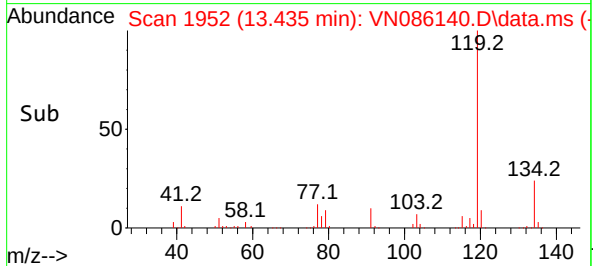
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion:119 Resp: 420738
Ion Ratio Lower Upper
119 100
91 67.4 34.3 102.9
134 27.4 13.5 40.5

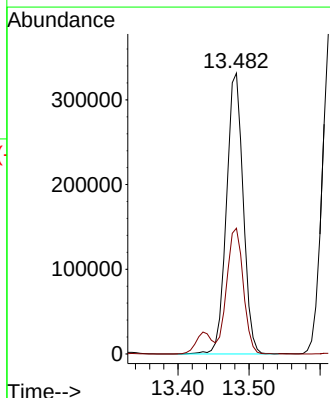
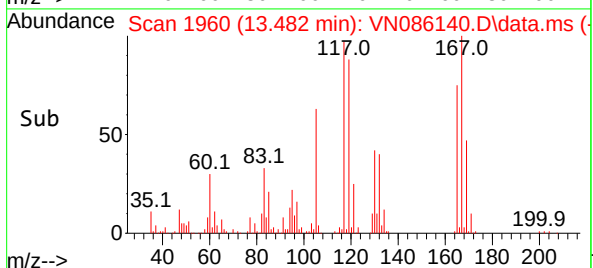
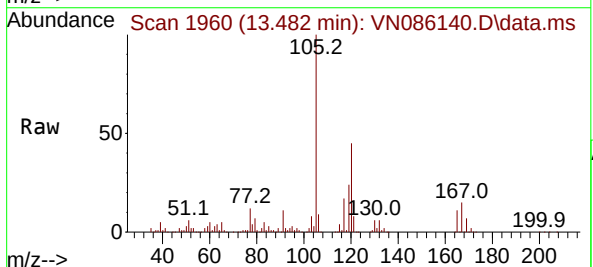
Manual Integrations
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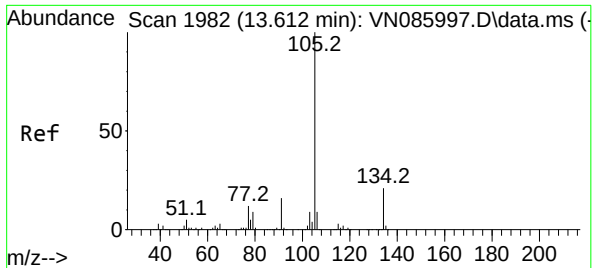
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#84
1,2,4-Trimethylbenzene
Concen: 52.285 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.006 min
Lab File: VN086140.D
Acq: 28 Mar 2025 10:44

Tgt Ion:105 Resp: 540255
Ion Ratio Lower Upper
105 100
120 44.5 21.9 65.8





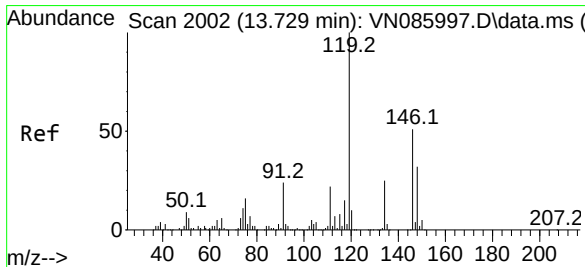
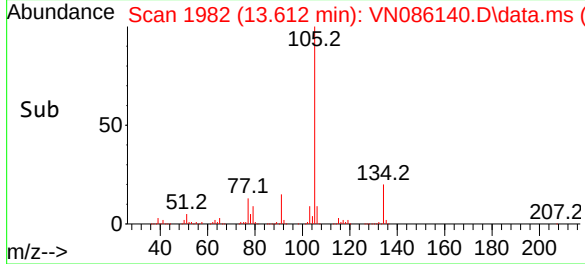
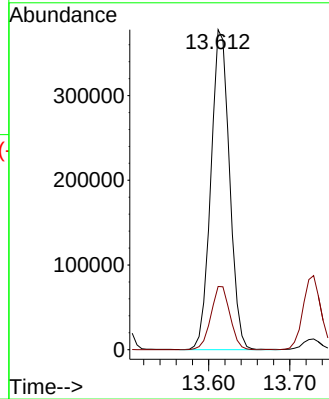
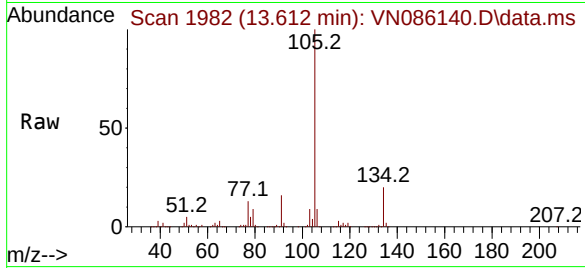
#85
sec-Butylbenzene
Concen: 52.695 ug/l
RT: 13.612 min Scan# 1982
Delta R.T. -0.000 min
Lab File: VN086140.D
Acq: 28 Mar 2025 10:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 60230
Ion Ratio Lower Upper
105 100
134 20.1 10.1 30.1

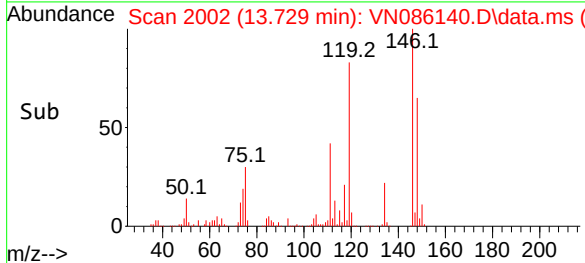
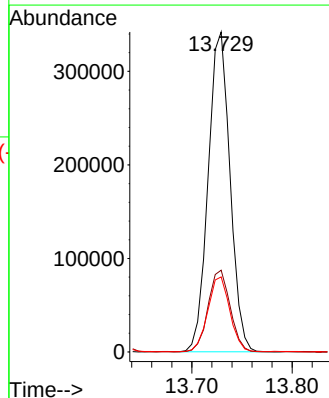
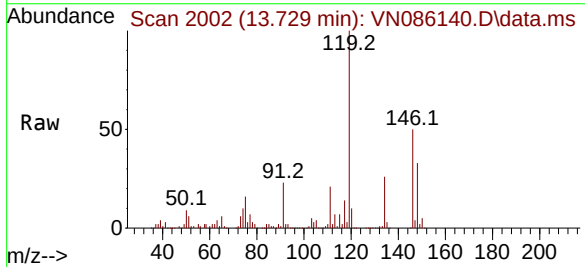
Manual Integrations
APPROVED

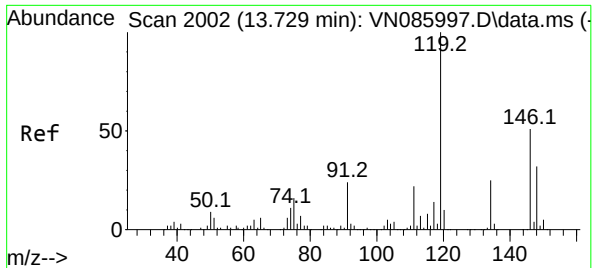
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#86
p-Isopropyltoluene
Concen: 53.474 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN086140.D
Acq: 28 Mar 2025 10:44

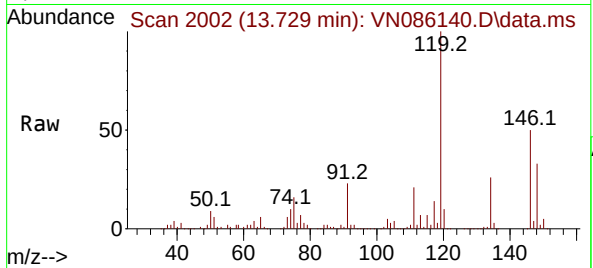
Tgt Ion:119 Resp: 517398
Ion Ratio Lower Upper
119 100
134 25.9 12.6 37.8
91 23.5 12.3 36.8





#87
1,3-Dichlorobenzene
Concen: 48.834 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN086140.D
Acq: 28 Mar 2025 10:44

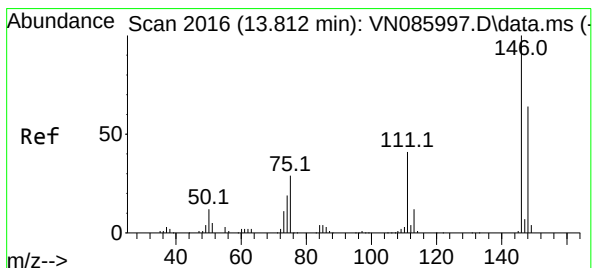
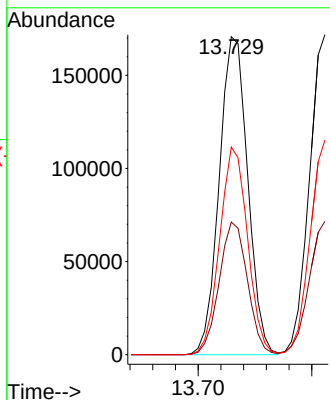
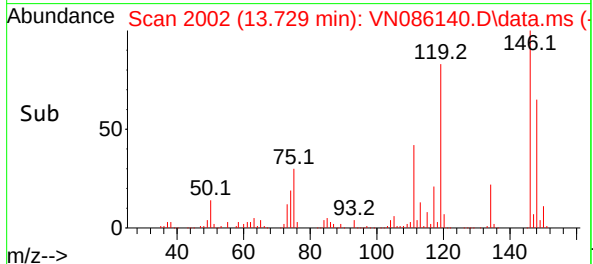
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



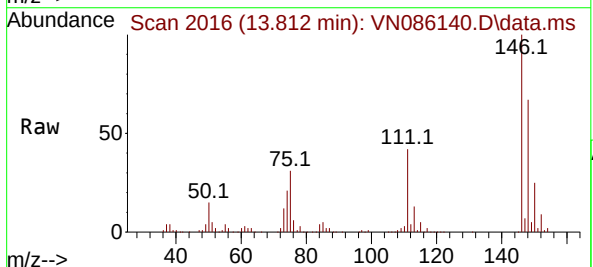
Tgt Ion:146 Resp: 297823
Ion Ratio Lower Upper
146 100
111 41.4 21.2 63.6
148 64.0 31.8 95.4

Manual Integrations
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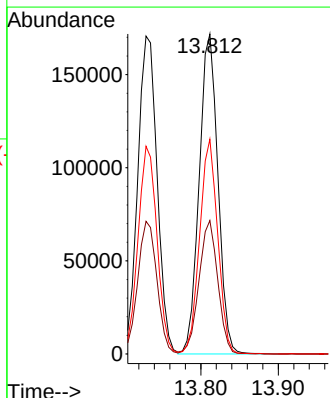
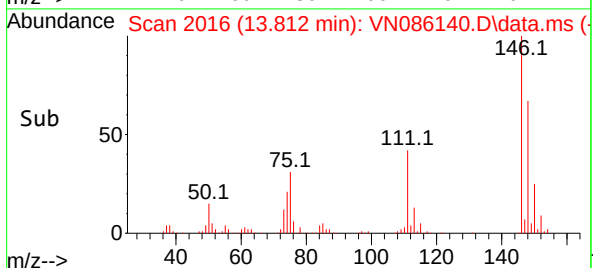
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025

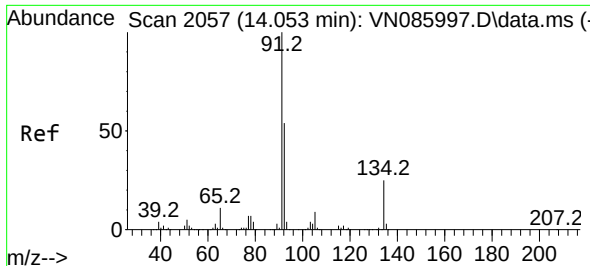


#88
1,4-Dichlorobenzene
Concen: 44.981 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN086140.D
Acq: 28 Mar 2025 10:44



Tgt Ion:146 Resp: 288219
Ion Ratio Lower Upper
146 100
111 41.8 20.4 61.3
148 64.8 32.1 96.5





#89

n-Butylbenzene

Concen: 50.654 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.000 min

Lab File: VN086140.D

Acq: 28 Mar 2025 10:44

Instrument :

MSVOA_N

ClientSampleId :

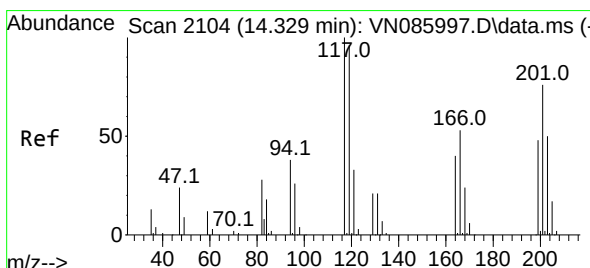
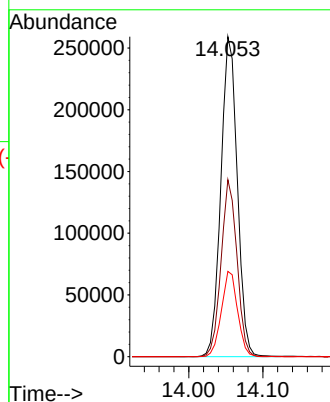
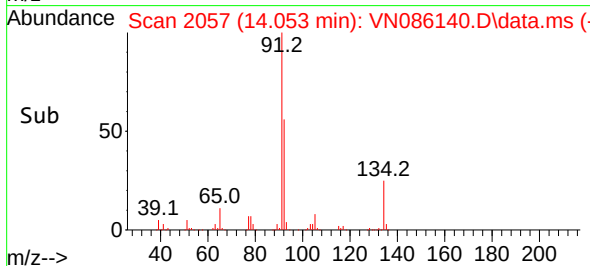
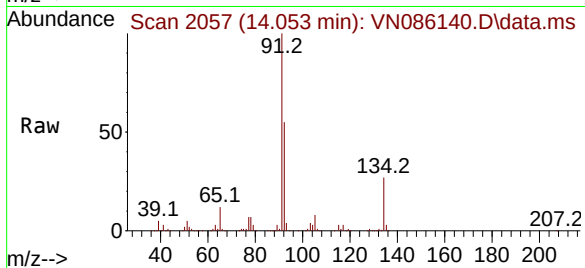
VSTDCCC050

Tgt Ion:	91	Resp:	39911
Ion	Ratio	Lower	Upper
91	100		
92	53.5	26.9	80.6
134	26.3	13.0	39.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/31/2025

Supervised By :Mahesh Dadoda 03/31/2025



#90

Hexachloroethane

Concen: 45.931 ug/l

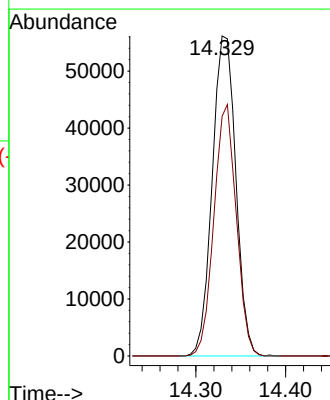
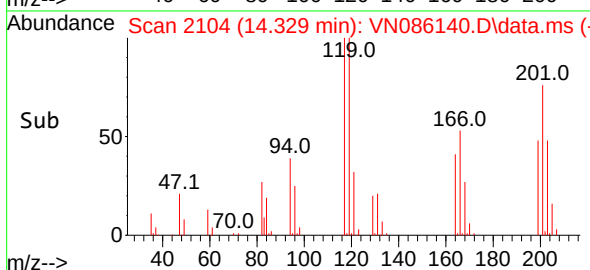
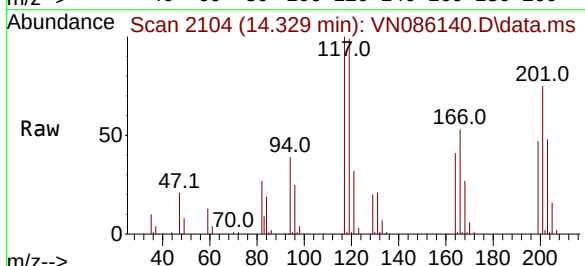
RT: 14.329 min Scan# 2104

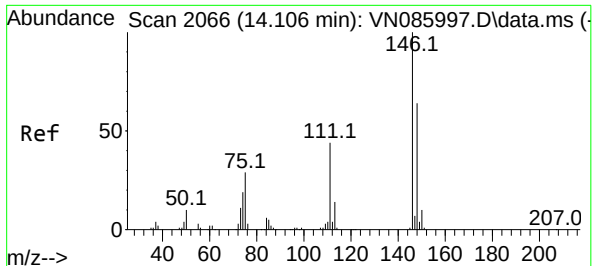
Delta R.T. -0.000 min

Lab File: VN086140.D

Acq: 28 Mar 2025 10:44

Tgt Ion:	117	Resp:	102546
Ion	Ratio	Lower	Upper
117	100		
201	74.5	39.1	117.3





#91

1,2-Dichlorobenzene

Concen: 46.709 ug/l

RT: 14.106 min Scan# 2066

Delta R.T. -0.000 min

Lab File: VN086140.D

Acq: 28 Mar 2025 10:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion:146 Resp: 28318

Ion Ratio Lower Upper

146 100

111 43.2 22.3 66.8

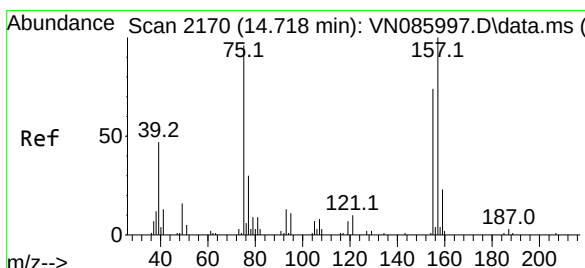
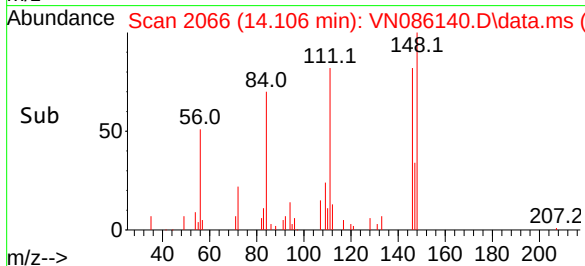
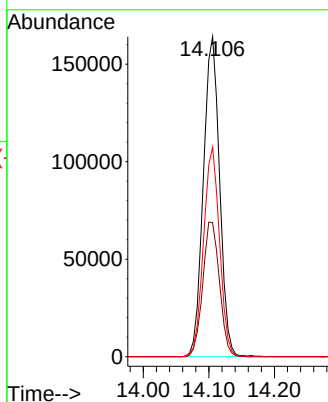
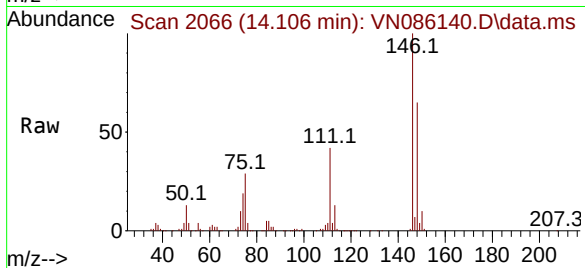
148 64.4 32.1 96.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/31/2025

Supervised By :Mahesh Dadoda 03/31/2025



#92

1,2-Dibromo-3-Chloropropane

Concen: 44.718 ug/l

RT: 14.717 min Scan# 2170

Delta R.T. -0.000 min

Lab File: VN086140.D

Acq: 28 Mar 2025 10:44

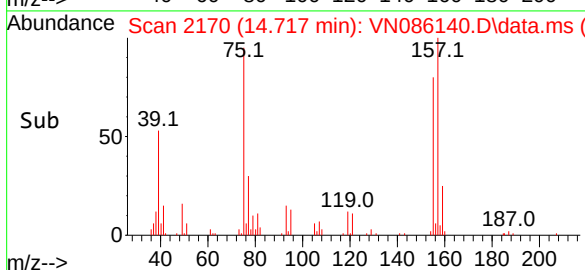
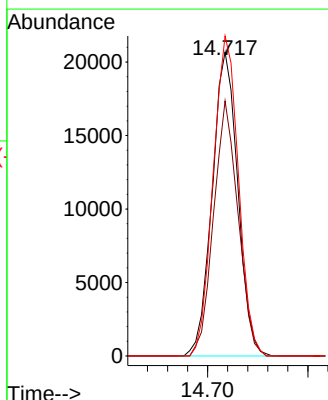
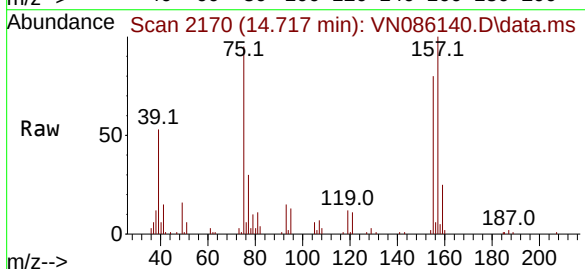
Tgt Ion: 75 Resp: 36644

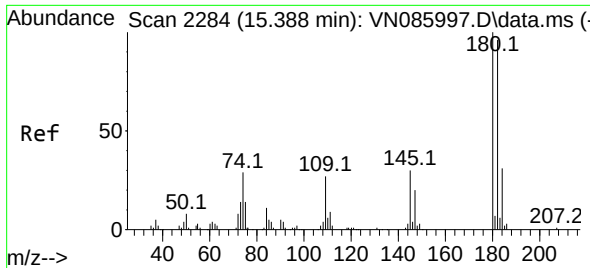
Ion Ratio Lower Upper

75 100

155 80.0 41.0 123.0

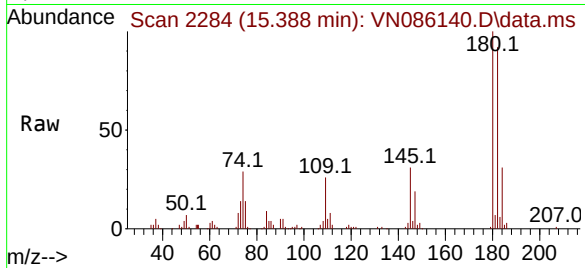
157 103.9 53.7 161.1





#93
1,2,4-Trichlorobenzene
Concen: 44.459 ug/l
RT: 15.388 min Scan# 2284
Delta R.T. -0.000 min
Lab File: VN086140.D
Acq: 28 Mar 2025 10:44

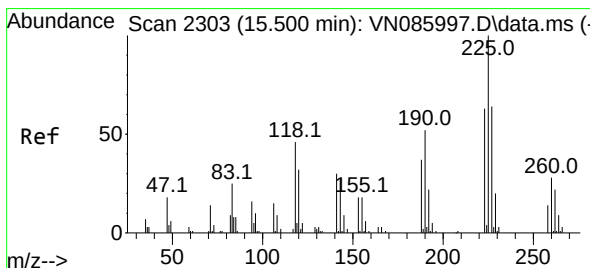
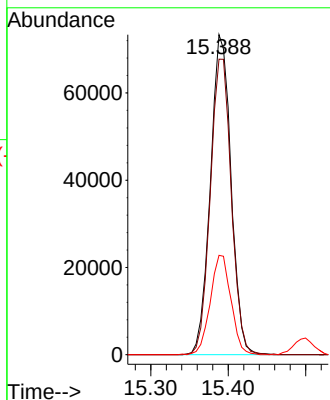
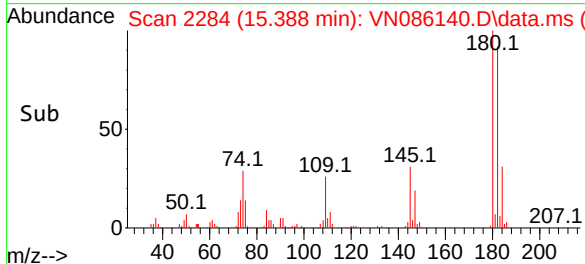
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion:180 Resp: 135530
Ion Ratio Lower Upper
180 100
182 94.1 47.0 141.0
145 31.2 15.5 46.5

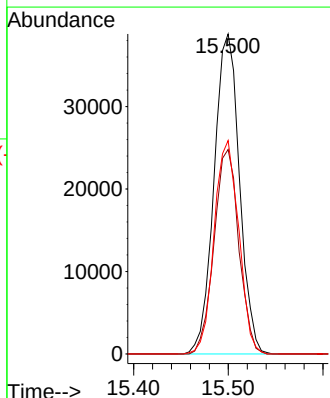
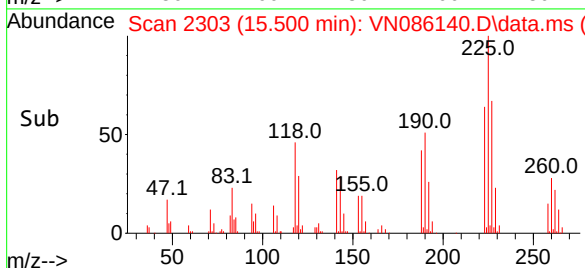
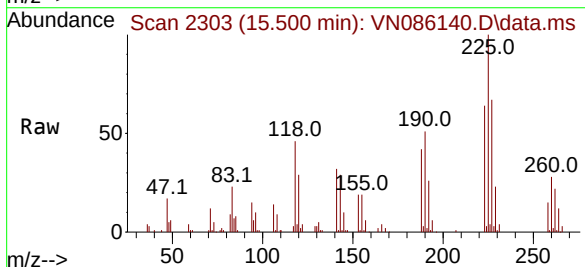
Manual Integrations
APPROVED

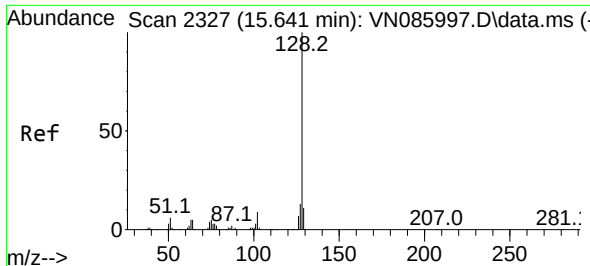
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#94
Hexachlorobutadiene
Concen: 40.893 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. -0.000 min
Lab File: VN086140.D
Acq: 28 Mar 2025 10:44

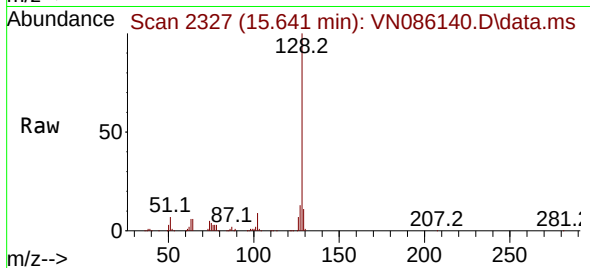
Tgt Ion:225 Resp: 72323
Ion Ratio Lower Upper
225 100
223 62.3 31.3 93.9
227 64.5 32.1 96.3





#95
Naphthalene
Concen: 45.076 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. -0.000 min
Lab File: VN086140.D
Acq: 28 Mar 2025 10:44

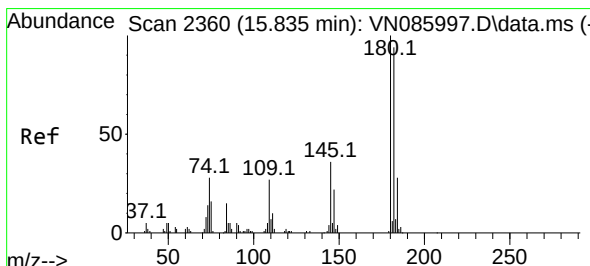
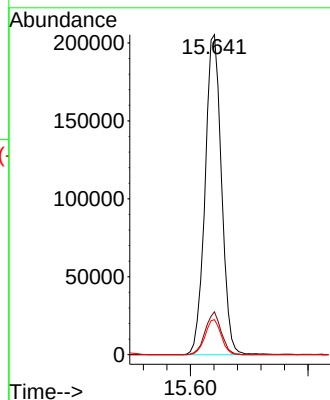
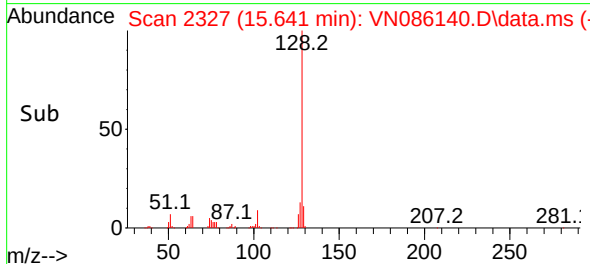
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion:128 Resp: 39789
Ion Ratio Lower Upper
128 100
127 13.0 10.2 15.4
129 10.7 9.0 13.6

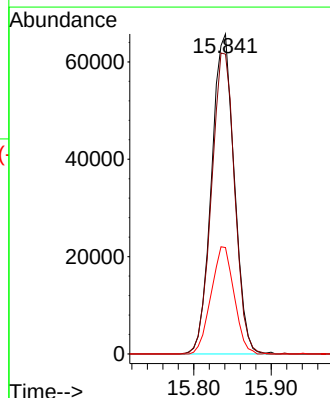
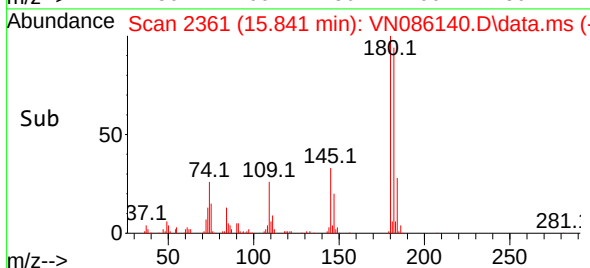
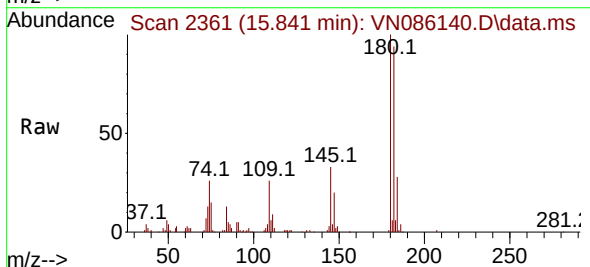
Manual Integrations
APPROVED

Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#96
1,2,3-Trichlorobenzene
Concen: 46.339 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. 0.006 min
Lab File: VN086140.D
Acq: 28 Mar 2025 10:44

Tgt Ion:180 Resp: 134039
Ion Ratio Lower Upper
180 100
182 95.6 47.5 142.5
145 33.9 17.7 53.1



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032825\
Data File : VN086140.D
Acq On : 28 Mar 2025 10:44
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Mar 28 23:36:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 19 03:20:56 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	114	0.00
2 T	Dichlorodifluoromethane	0.662	0.585	11.6	104	0.00
3 P	Chloromethane	0.581	0.578	0.5	119	0.00
4 C	Vinyl Chloride	0.594	0.629	-5.9#	121	0.00
5 T	Bromomethane	0.404	0.391	3.2	117	0.00
6 T	Chloroethane	0.375	0.394	-5.1	136	0.00
7 T	Trichlorofluoromethane	1.067	0.977	8.4	114	0.00
8 T	Diethyl Ether	0.327	0.313	4.3	110	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.567	0.579	-2.1	129	0.00
10 T	Methyl Iodide	0.739	0.715	3.2	112	0.00
11 T	Tert butyl alcohol	0.097	0.089	8.2	107	0.00
12 CM	1,1-Dichloroethene	0.512	0.500	2.3#	111	0.00
13 T	Acrolein	0.103	0.073	29.1#	83	0.00
14 T	Allyl chloride	0.639	0.618	3.3	114	0.00
15 T	Acrylonitrile	0.256	0.276	-7.8	127	0.00
16 T	Acetone	0.209	0.199	4.8	117	0.00
17 T	Carbon Disulfide	1.685	1.453	13.8	110	0.00
18 T	Methyl Acetate	0.518	0.614	-18.5	150	0.00
19 T	Methyl tert-butyl Ether	1.679	1.680	-0.1	114	0.00
20 T	Methylene Chloride	0.612	0.616	-0.7	125	0.00
21 T	trans-1,2-Dichloroethene	0.560	0.561	-0.2	120	0.00
22 T	Diisopropyl ether	1.362	1.532	-12.5	127	0.00
23 T	Vinyl Acetate	1.032	1.118	-8.3	120	0.00
24 P	1,1-Dichloroethane	1.001	1.018	-1.7	123	0.00
25 T	2-Butanone	0.302	0.323	-7.0	126	0.00
26 T	2,2-Dichloropropane	0.964	0.918	4.8	113	0.00
27 T	cis-1,2-Dichloroethene	0.636	0.652	-2.5	118	0.00
28 T	Bromochloromethane	0.424	0.430	-1.4	126	0.00
29 T	Tetrahydrofuran	0.186	0.217	-16.7	128	0.00
30 C	Chloroform	1.107	1.110	-0.3#	125	0.00
31 T	Cyclohexane	0.853	0.825	3.3	118	0.00
32 T	1,1,1-Trichloroethane	1.048	1.006	4.0	117	0.00
33 S	1,2-Dichloroethane-d4	0.685	0.616	10.1	106	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	112	0.00
35 S	Dibromofluoromethane	0.349	0.328	6.0	110	0.00
36 T	1,1-Dichloropropene	0.460	0.477	-3.7	118	0.00
37 T	Ethyl Acetate	0.388	0.412	-6.2	126	0.00
38 T	Carbon Tetrachloride	0.604	0.595	1.5	116	0.00
39 T	Methylcyclohexane	0.456	0.480	-5.3	114	0.00
40 TM	Benzene	1.443	1.525	-5.7	123	0.00
41 T	Methacrylonitrile	0.185	0.211	-14.1	123	0.00
42 TM	1,2-Dichloroethane	0.503	0.493	2.0	117	0.00
43 T	Isopropyl Acetate	0.840	0.683	18.7	112	0.00
44 TM	Trichloroethene	0.374	0.359	4.0	117	0.00
45 C	1,2-Dichloropropane	0.328	0.368	-12.2#	129	0.00
46 T	Dibromomethane	0.258	0.276	-7.0	128	0.00
47 T	Bromodichloromethane	0.539	0.559	-3.7	122	0.00
48 T	Methyl methacrylate	0.277	0.317	-14.4	123	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032825\
Data File : VN086140.D
Acq On : 28 Mar 2025 10:44
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Mar 28 23:36:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 19 03:20:56 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	0.007	0.008	-14.3	127	0.00
50 S	Toluene-d8	1.267	1.250	1.3	111	0.00
51 T	4-Methyl-2-Pentanone	0.371	0.447	-20.5	131	0.00
52 CM	Toluene	0.885	1.009	-14.0#	124	0.00
53 T	t-1,3-Dichloropropene	0.524	0.555	-5.9	116	0.00
54 T	cis-1,3-Dichloropropene	0.553	0.597	-8.0	118	0.00
55 T	1,1,2-Trichloroethane	0.338	0.379	-12.1	130	0.00
56 T	Ethyl methacrylate	0.463	0.555	-19.9	119	0.00
57 T	1,3-Dichloropropane	0.574	0.626	-9.1	124	0.00
58 T	2-Chloroethyl Vinyl ether	0.183	0.238	-30.1#	126	0.00
59 T	2-Hexanone	0.270	0.335	-24.1	133	0.00
60 T	Dibromochloromethane	0.436	0.468	-7.3	122	0.00
61 T	1,2-Dibromoethane	0.347	0.376	-8.4	121	0.00
62 S	4-Bromofluorobenzene	0.452	0.459	-1.5	111	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	118	0.00
64 T	Tetrachloroethene	0.399	0.389	2.5	123	0.00
65 PM	Chlorobenzene	1.144	1.146	-0.2	124	0.00
66 T	1,1,1,2-Tetrachloroethane	0.425	0.426	-0.2	123	0.00
67 C	Ethyl Benzene	1.830	1.951	-6.6#	120	0.00
68 T	m/p-Xylenes	0.719	0.796	-10.7	124	0.00
69 T	o-Xylene	0.660	0.739	-12.0	122	0.00
70 T	Styrene	1.128	1.296	-14.9	125	0.00
71 P	Bromoform	0.356	0.351	1.4	120	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	129	0.00
73 T	Isopropylbenzene	3.414	3.326	2.6	119	0.00
74 T	N-amyl acetate	1.142	1.168	-2.3	123	0.00
75 P	1,1,2,2-Tetrachloroethane	1.155	1.068	7.5	131	0.00
76 T	1,2,3-Trichloropropane	1.119	1.016	9.2	113	0.00
77 T	Bromobenzene	0.952	0.894	6.1	127	0.00
78 T	n-propylbenzene	3.866	4.009	-3.7	124	0.00
79 T	2-Chlorotoluene	2.568	2.519	1.9	124	0.00
80 T	1,3,5-Trimethylbenzene	2.883	2.995	-3.9	124	0.00
81 T	trans-1,4-Dichloro-2-butene	0.423	0.397	6.1	124	0.00
82 T	4-Chlorotoluene	2.641	2.602	1.5	124	0.00
83 T	tert-Butylbenzene	2.466	2.368	4.0	120	0.00
84 T	1,2,4-Trimethylbenzene	2.908	3.040	-4.5	125	0.00
85 T	sec-Butylbenzene	3.216	3.390	-5.4	124	0.00
86 T	p-Isopropyltoluene	2.723	2.912	-6.9	124	0.00
87 T	1,3-Dichlorobenzene	1.716	1.676	2.3	128	0.00
88 T	1,4-Dichlorobenzene	1.803	1.622	10.0	125	0.00
89 T	n-Butylbenzene	2.217	2.246	-1.3	119	0.00
90 T	Hexachloroethane	0.628	0.577	8.1	128	0.00
91 T	1,2-Dichlorobenzene	1.706	1.594	6.6	129	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.231	0.206	10.8	120	0.00
93 T	1,2,4-Trichlorobenzene	0.858	0.763	11.1	116	0.00
94 T	Hexachlorobutadiene	0.498	0.407	18.3	119	0.00
95 T	Naphthalene	2.484	2.239	9.9	111	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032825\
Data File : VN086140.D
Acq On : 28 Mar 2025 10:44
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Mar 28 23:36:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 19 03:20:56 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	0.814	0.754	7.4	117	0.00

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032825\
Data File : VN086140.D
Acq On : 28 Mar 2025 10:44
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Mar 28 23:36:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 19 03:20:56 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	114	0.00
2 T	Dichlorodifluoromethane	50.000	44.193	11.6	104	0.00
3 P	Chloromethane	50.000	49.761	0.5	119	0.00
4 C	Vinyl Chloride	50.000	52.948	-5.9#	121	0.00
5 T	Bromomethane	50.000	48.375	3.3	117	0.00
6 T	Chloroethane	50.000	52.579	-5.2	136	0.00
7 T	Trichlorofluoromethane	50.000	45.786	8.4	114	0.00
8 T	Diethyl Ether	50.000	47.923	4.2	110	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	51.070	-2.1	129	0.00
10 T	Methyl Iodide	50.000	48.335	3.3	112	0.00
11 T	Tert butyl alcohol	250.000	228.480	8.6	107	0.00
12 CM	1,1-Dichloroethene	50.000	48.849	2.3#	111	0.00
13 T	Acrolein	250.000	176.175	29.5#	83	0.00
14 T	Allyl chloride	50.000	48.322	3.4	114	0.00
15 T	Acrylonitrile	250.000	269.611	-7.8	127	0.00
16 T	Acetone	250.000	238.355	4.7	117	0.00
17 T	Carbon Disulfide	50.000	43.117	13.8	110	0.00
18 T	Methyl Acetate	50.000	59.287	-18.6	150	0.00
19 T	Methyl tert-butyl Ether	50.000	50.050	-0.1	114	0.00
20 T	Methylene Chloride	50.000	50.330	-0.7	125	0.00
21 T	trans-1,2-Dichloroethene	50.000	50.136	-0.3	120	0.00
22 T	Diisopropyl ether	50.000	56.246	-12.5	127	0.00
23 T	Vinyl Acetate	250.000	270.712	-8.3	120	0.00
24 P	1,1-Dichloroethane	50.000	50.844	-1.7	123	0.00
25 T	2-Butanone	250.000	267.129	-6.9	126	0.00
26 T	2,2-Dichloropropane	50.000	47.604	4.8	113	0.00
27 T	cis-1,2-Dichloroethene	50.000	51.259	-2.5	118	0.00
28 T	Bromochloromethane	50.000	50.665	-1.3	126	0.00
29 T	Tetrahydrofuran	250.000	291.808	-16.7	128	0.00
30 C	Chloroform	50.000	50.121	-0.2#	125	0.00
31 T	Cyclohexane	50.000	48.348	3.3	118	0.00
32 T	1,1,1-Trichloroethane	50.000	47.982	4.0	117	0.00
33 S	1,2-Dichloroethane-d4	50.000	44.950	10.1	106	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	112	0.00
35 S	Dibromofluoromethane	50.000	47.053	5.9	110	0.00
36 T	1,1-Dichloropropene	50.000	51.925	-3.8	118	0.00
37 T	Ethyl Acetate	50.000	53.149	-6.3	126	0.00
38 T	Carbon Tetrachloride	50.000	49.277	1.4	116	0.00
39 T	Methylcyclohexane	50.000	52.610	-5.2	114	0.00
40 TM	Benzene	50.000	52.863	-5.7	123	0.00
41 T	Methacrylonitrile	50.000	57.121	-14.2	123	0.00
42 TM	1,2-Dichloroethane	50.000	49.009	2.0	117	0.00
43 T	Isopropyl Acetate	50.000	40.654	18.7	112	0.00
44 TM	Trichloroethene	50.000	47.968	4.1	117	0.00
45 C	1,2-Dichloropropane	50.000	56.019	-12.0#	129	0.00
46 T	Dibromomethane	50.000	53.497	-7.0	128	0.00
47 T	Bromodichloromethane	50.000	51.864	-3.7	122	0.00
48 T	Methyl methacrylate	50.000	57.195	-14.4	123	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032825\
Data File : VN086140.D
Acq On : 28 Mar 2025 10:44
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Mar 28 23:36:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 19 03:20:56 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	1187.958	-18.8	127	0.00
50 S	Toluene-d8	50.000	49.339	1.3	111	0.00
51 T	4-Methyl-2-Pentanone	250.000	301.956	-20.8	131	0.00
52 CM	Toluene	50.000	56.980	-14.0#	124	0.00
53 T	t-1,3-Dichloropropene	50.000	52.997	-6.0	116	0.00
54 T	cis-1,3-Dichloropropene	50.000	54.061	-8.1	118	0.00
55 T	1,1,2-Trichloroethane	50.000	56.002	-12.0	130	0.00
56 T	Ethyl methacrylate	50.000	52.177	-4.4	119	0.00
57 T	1,3-Dichloropropane	50.000	54.554	-9.1	124	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	286.551	-14.6	126	0.00
59 T	2-Hexanone	250.000	310.491	-24.2	133	0.00
60 T	Dibromochloromethane	50.000	53.688	-7.4	122	0.00
61 T	1,2-Dibromoethane	50.000	54.221	-8.4	121	0.00
62 S	4-Bromofluorobenzene	50.000	50.784	-1.6	111	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	118	0.00
64 T	Tetrachloroethene	50.000	48.733	2.5	123	0.00
65 PM	Chlorobenzene	50.000	50.066	-0.1	124	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	50.116	-0.2	123	0.00
67 C	Ethyl Benzene	50.000	53.301	-6.6#	120	0.00
68 T	m/p-Xylenes	100.000	110.663	-10.7	124	0.00
69 T	o-Xylene	50.000	55.997	-12.0	122	0.00
70 T	Styrene	50.000	57.481	-15.0	125	0.00
71 P	Bromoform	50.000	49.359	1.3	120	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	129	0.00
73 T	Isopropylbenzene	50.000	48.698	2.6	119	0.00
74 T	N-ethyl acetate	50.000	51.135	-2.3	123	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	46.214	7.6	131	0.00
76 T	1,2,3-Trichloropropane	50.000	45.392	9.2	113	0.00
77 T	Bromobenzene	50.000	46.950	6.1	127	0.00
78 T	n-propylbenzene	50.000	51.848	-3.7	124	0.00
79 T	2-Chlorotoluene	50.000	49.052	1.9	124	0.00
80 T	1,3,5-Trimethylbenzene	50.000	51.948	-3.9	124	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	46.864	6.3	124	0.00
82 T	4-Chlorotoluene	50.000	49.263	1.5	124	0.00
83 T	tert-Butylbenzene	50.000	48.020	4.0	120	0.00
84 T	1,2,4-Trimethylbenzene	50.000	52.285	-4.6	125	0.00
85 T	sec-Butylbenzene	50.000	52.695	-5.4	124	0.00
86 T	p-Isopropyltoluene	50.000	53.474	-6.9	124	0.00
87 T	1,3-Dichlorobenzene	50.000	48.834	2.3	128	0.00
88 T	1,4-Dichlorobenzene	50.000	44.981	10.0	125	0.00
89 T	n-Butylbenzene	50.000	50.654	-1.3	119	0.00
90 T	Hexachloroethane	50.000	45.931	8.1	128	0.00
91 T	1,2-Dichlorobenzene	50.000	46.709	6.6	129	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	44.718	10.6	120	0.00
93 T	1,2,4-Trichlorobenzene	50.000	44.459	11.1	116	0.00
94 T	Hexachlorobutadiene	50.000	40.893	18.2	119	0.00
95 T	Naphthalene	50.000	45.076	9.8	111	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032825\
Data File : VN086140.D
Acq On : 28 Mar 2025 10:44
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Mar 28 23:36:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 19 03:20:56 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	46.339	7.3	117	0.00

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



QC SAMPLE DATA

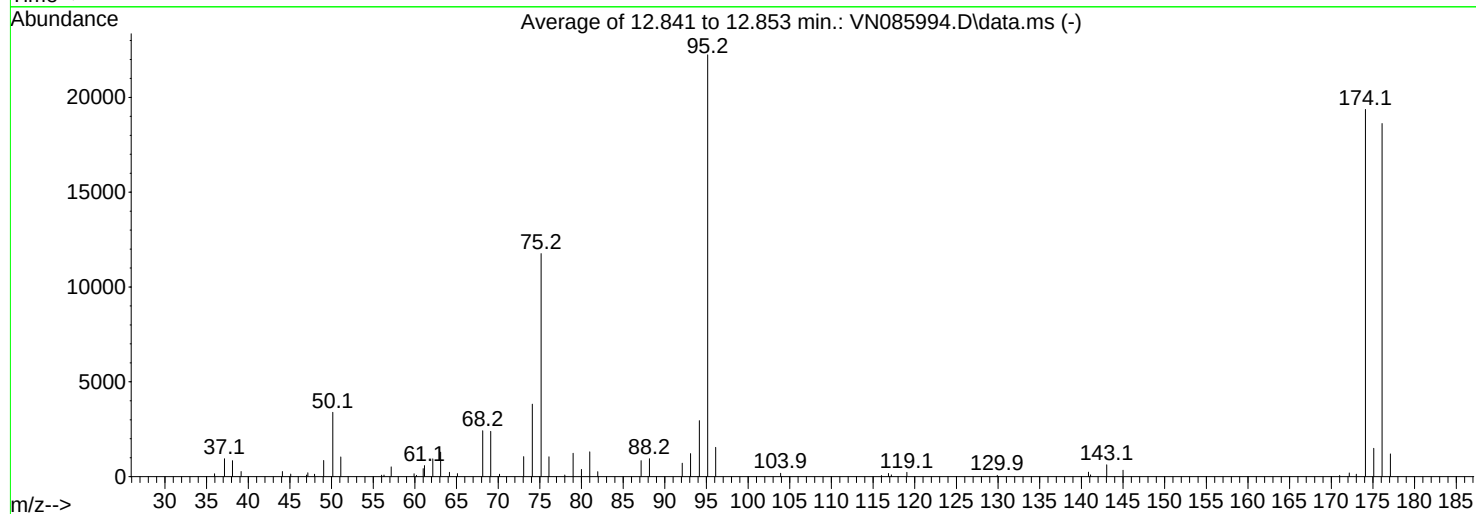
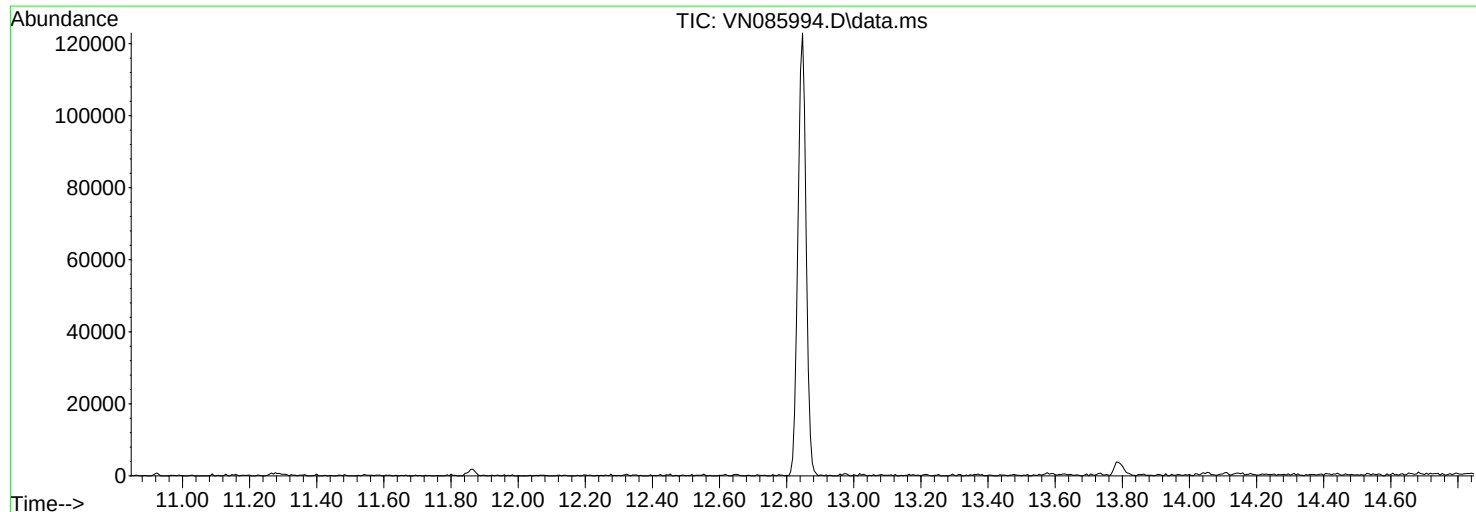
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- 2
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031825\
Data File : VN085994.D
Acq On : 18 Mar 2025 08:52
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
Title : SW846 8260
Last Update : Wed Mar 19 03:20:56 2025



AutoFind: Scans 1851, 1852, 1853; Background Corrected with Scan 1843

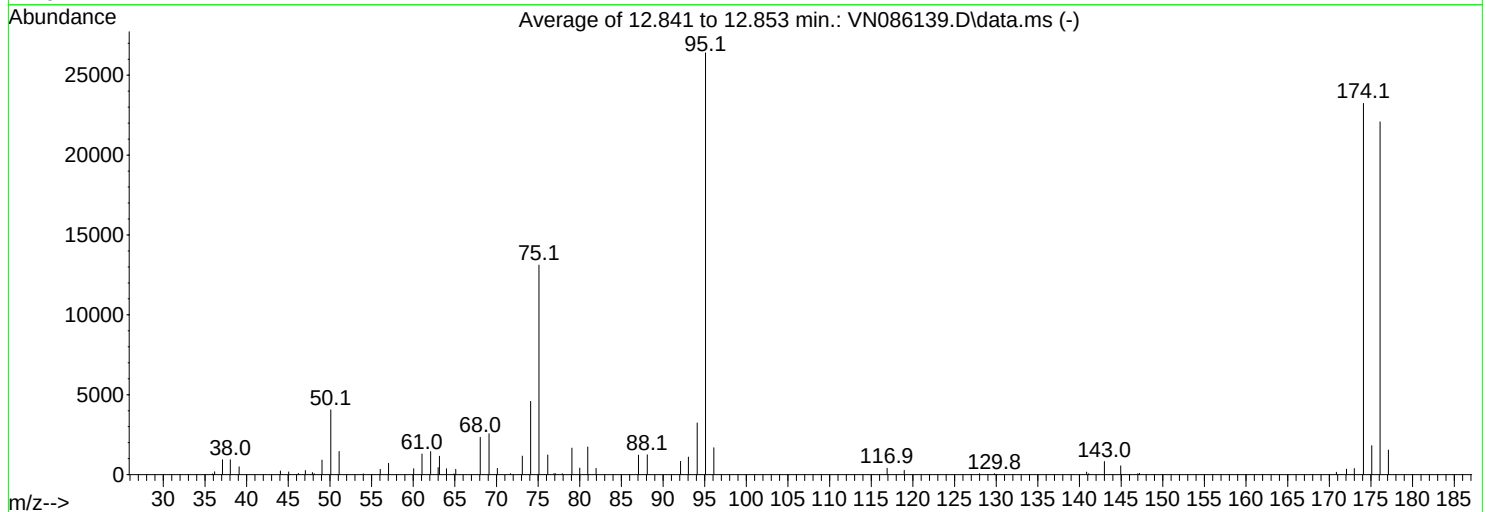
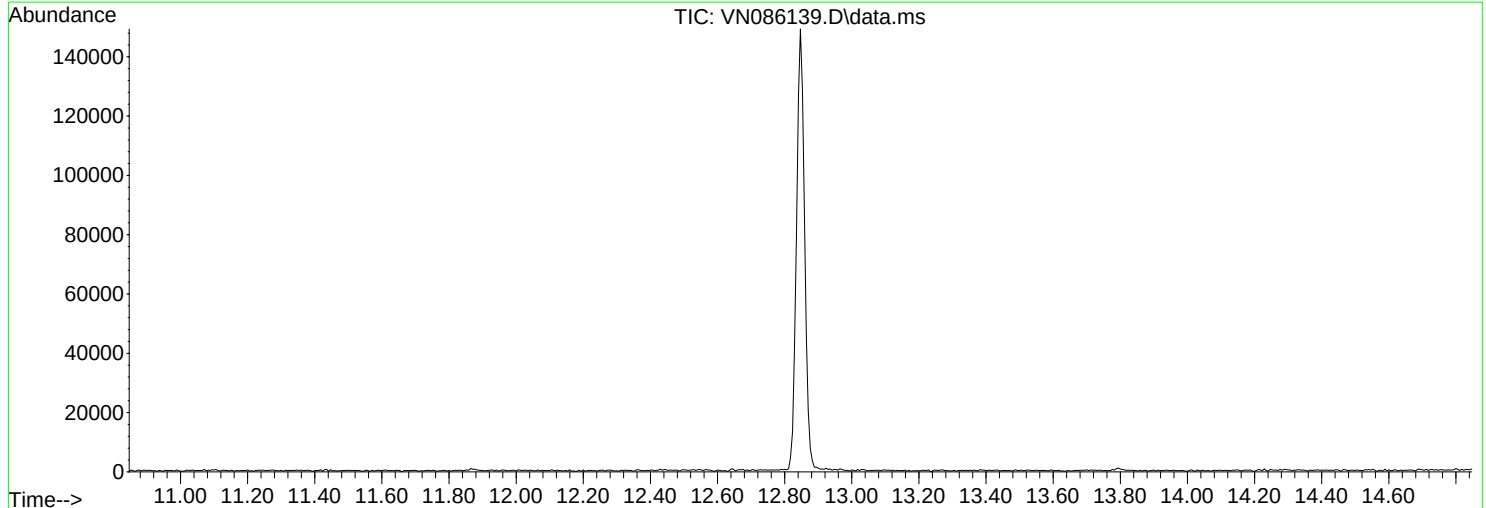
Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	15.2	3392	PASS
75	95	30	60	52.9	11766	PASS
95	95	100	100	100.0	22245	PASS
96	95	5	9	6.9	1542	PASS
173	174	0.00	2	0.7	126	PASS
174	95	50	100	87.1	19365	PASS
175	174	5	9	7.7	1497	PASS
176	174	95	101	96.2	18624	PASS
177	176	5	9	6.4	1198	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032825\
Data File : VN086139.D
Acq On : 28 Mar 2025 10:11
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
Title : SW846 8260
Last Update : Wed Mar 19 03:20:56 2025



AutoFind: Scans 1851, 1852, 1853; Background Corrected with Scan 1843

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	15.4	4056	PASS
75	95	30	60	49.7	13115	PASS
95	95	100	100	100.0	26397	PASS
96	95	5	9	6.4	1678	PASS
173	174	0.00	2	1.6	377	PASS
174	95	50	100	88.0	23235	PASS
175	174	5	9	7.8	1814	PASS
176	174	95	101	95.0	22077	PASS
177	176	5	9	7.0	1546	PASS

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	
Project:	RFP 905		Date Received:	
Client Sample ID:	VN0328WBL01		SDG No.:	Q1664
Lab Sample ID:	VN0328WBL01		Matrix:	Water
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	SPLP VOA
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086142.D	1		03/28/25 11:43	VN032825

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

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	
Project:	RFP 905		Date Received:	
Client Sample ID:	VN0328WBL01		SDG No.:	Q1664
Lab Sample ID:	VN0328WBL01		Matrix:	Water
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	SPLP VOA
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086142.D	1		03/28/25 11:43	VN032825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.17	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.16	U	0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	0.89	U	0.89	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.15	U	0.15	1.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	1.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	0.13	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	0.24	U	0.24	2.00	ug/L
95-47-6	o-Xylene	0.12	U	0.12	1.00	ug/L
100-42-5	Styrene	0.15	U	0.15	1.00	ug/L
75-25-2	Bromoform	0.19	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	0.12	U	0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.26	U	0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	57.5		74 - 125	115%	SPK: 50
1868-53-7	Dibromofluoromethane	54.0		75 - 124	108%	SPK: 50
2037-26-5	Toluene-d8	47.9		86 - 113	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	41.9		77 - 121	84%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	167000	8.224			
540-36-3	1,4-Difluorobenzene	308000	9.1			
3114-55-4	Chlorobenzene-d5	270000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	111000	13.788			

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	
Project:	RFP 905		Date Received:	
Client Sample ID:	VN0328WBL01		SDG No.:	Q1664
Lab Sample ID:	VN0328WBL01		Matrix:	Water
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	SPLP VOA
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086142.D	1		03/28/25 11:43	VN032825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032825\
Data File : VN086142.D
Acq On : 28 Mar 2025 11:43
Operator : JC\MD
Sample : VN0328WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0328WBL01

Quant Time: Mar 28 23:37:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 19 03:20:56 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	166500	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	307532	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	270205	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	111030	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	131033	57.472	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	114.940%
35) Dibromofluoromethane	8.165	113	115817	53.955	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	107.920%
50) Toluene-d8	10.565	98	373518	47.946	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	95.900%
62) 4-Bromofluorobenzene	12.847	95	116277	41.852	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	83.700%

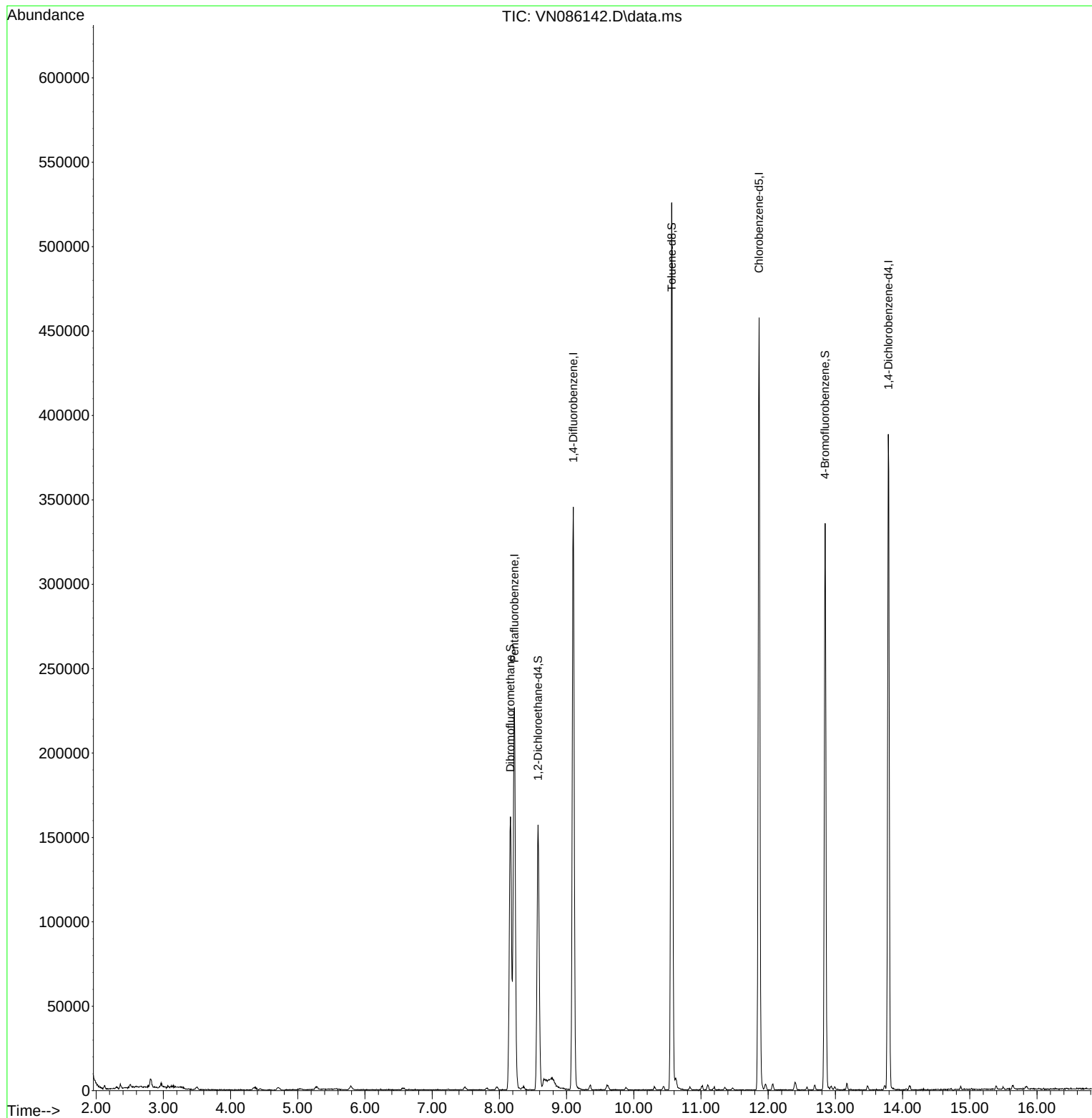
Target Compounds	Qvalue

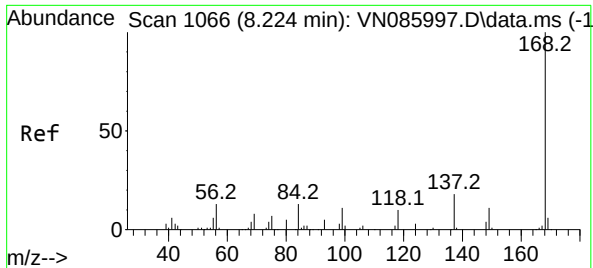
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032825\
Data File : VN086142.D
Acq On : 28 Mar 2025 11:43
Operator : JC\MD
Sample : VN0328WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0328WBL01

Quant Time: Mar 28 23:37:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 19 03:20:56 2025
Response via : Initial Calibration

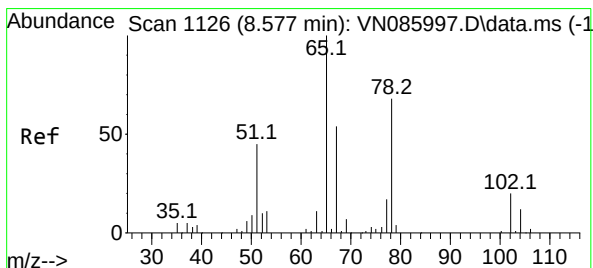
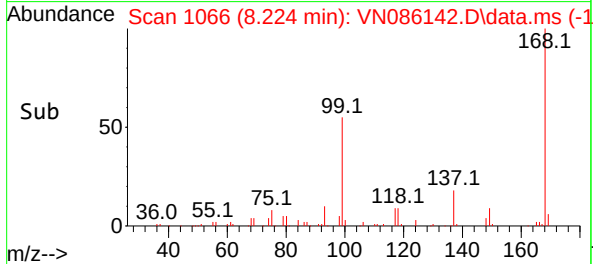
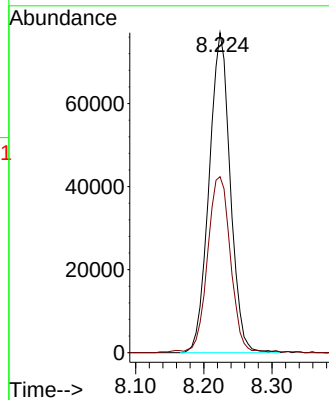
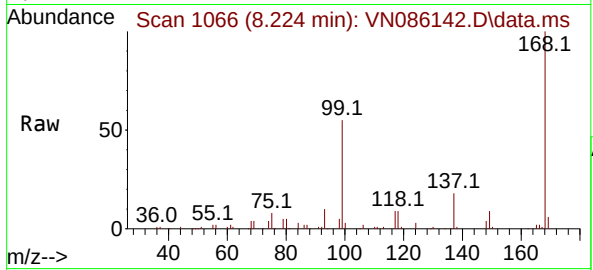




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN086142.D
Acq: 28 Mar 2025 11:43

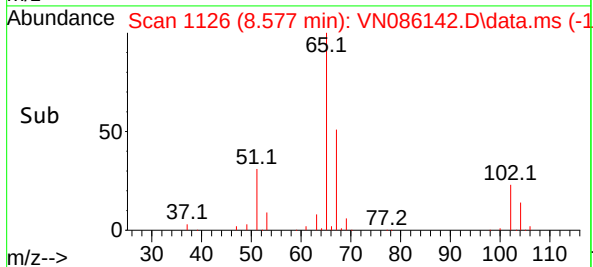
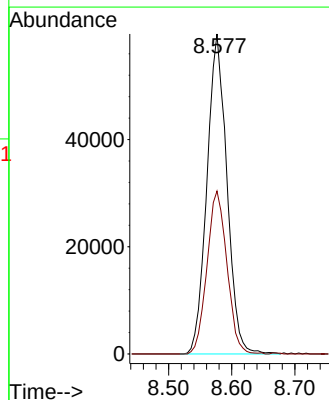
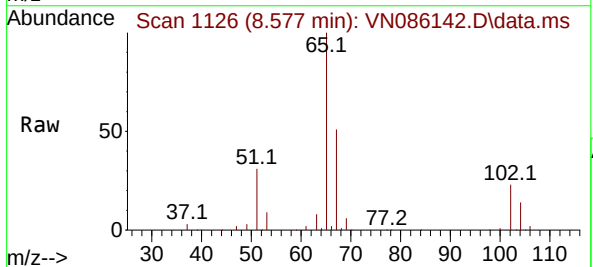
Instrument :
MSVOA_N
ClientSampleId :
VN0328WBL01

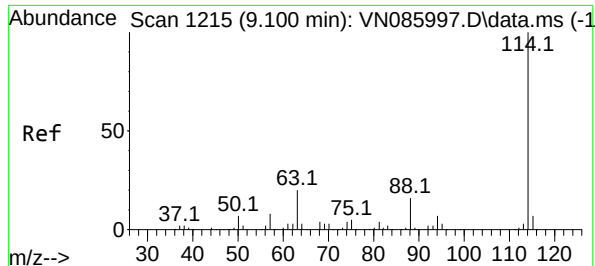
Tgt Ion:168 Resp: 166500
Ion Ratio Lower Upper
168 100
99 54.7 49.4 74.2



#33
1,2-Dichloroethane-d4
Concen: 57.472 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN086142.D
Acq: 28 Mar 2025 11:43

Tgt Ion: 65 Resp: 131033
Ion Ratio Lower Upper
65 100
67 50.8 0.0 102.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086142.D

Acq: 28 Mar 2025 11:43

Instrument :

MSVOA_N

ClientSampleId :

VN0328WBL01

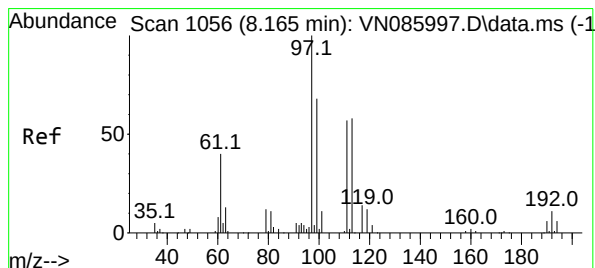
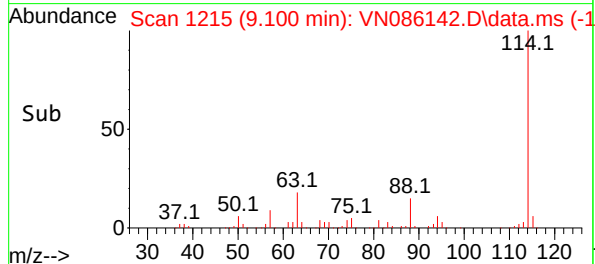
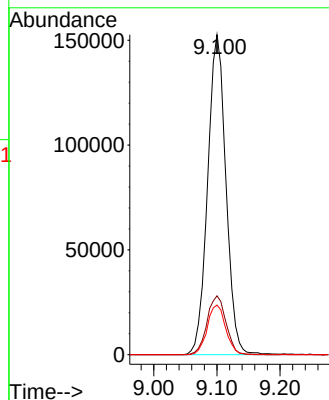
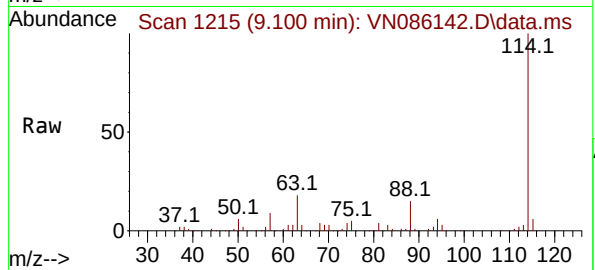
Tgt Ion:114 Resp: 307532

Ion Ratio Lower Upper

114 100

63 18.4 0.0 39.6

88 15.5 0.0 32.6



#35

Dibromofluoromethane

Concen: 53.955 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086142.D

Acq: 28 Mar 2025 11:43

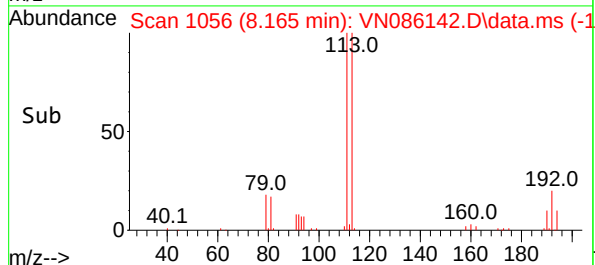
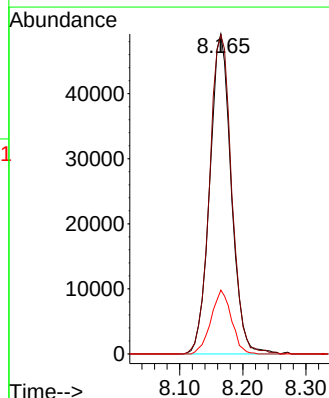
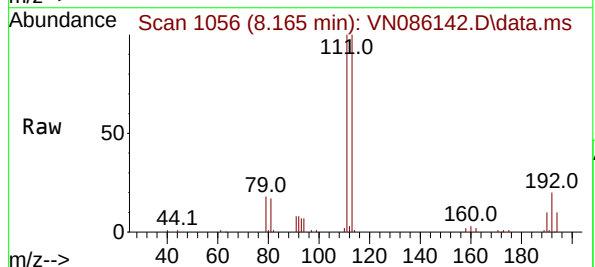
Tgt Ion:113 Resp: 115817

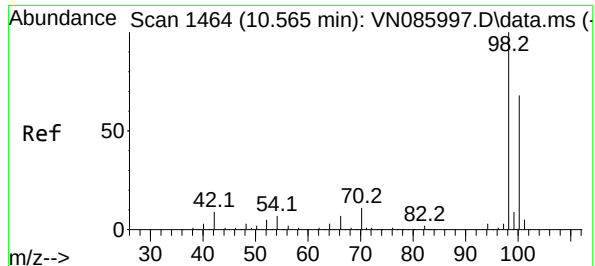
Ion Ratio Lower Upper

113 100

111 102.5 81.8 122.8

192 19.1 15.9 23.9





#50

Toluene-d8

Concen: 47.946 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN086142.D

Acq: 28 Mar 2025 11:43

Instrument :

MSVOA_N

ClientSampleId :

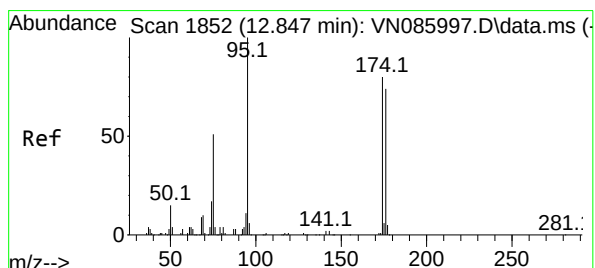
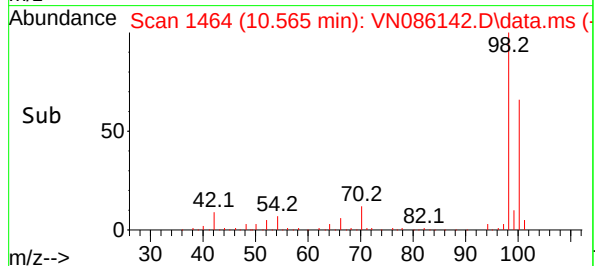
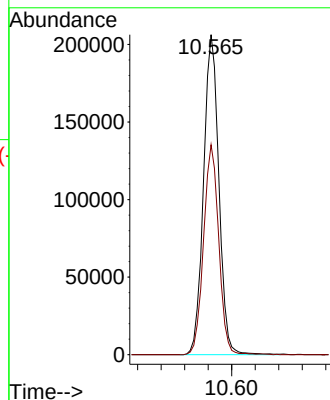
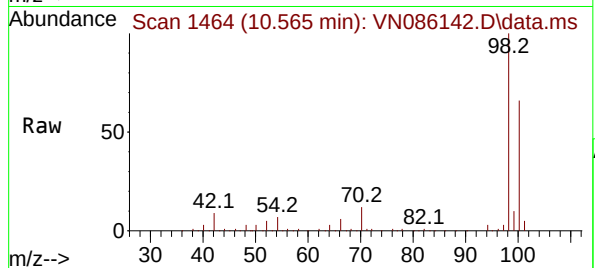
VN0328WBL01

Tgt Ion: 98 Resp: 373518

Ion Ratio Lower Upper

98 100

100 64.8 53.1 79.7



#62

4-Bromofluorobenzene

Concen: 41.852 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.000 min

Lab File: VN086142.D

Acq: 28 Mar 2025 11:43

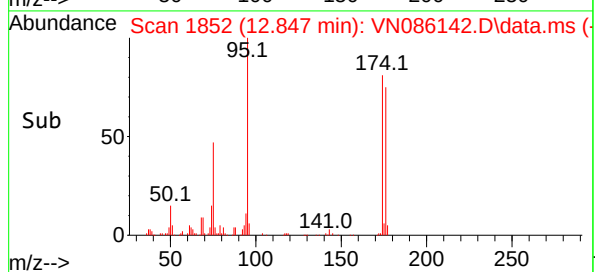
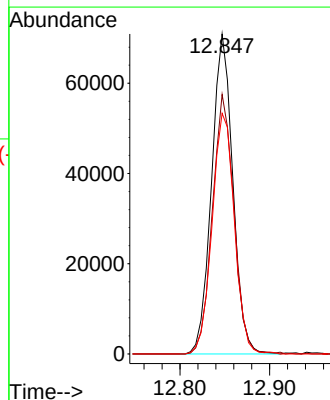
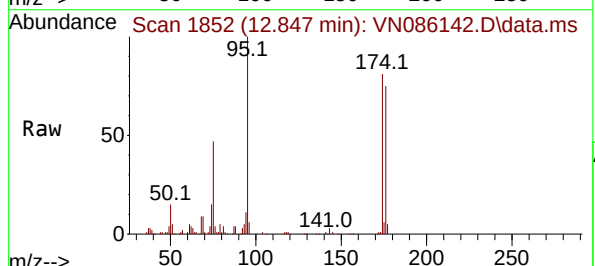
Tgt Ion: 95 Resp: 116277

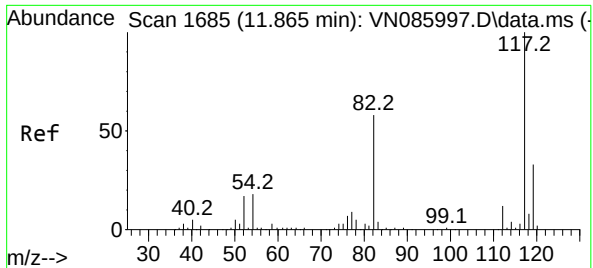
Ion Ratio Lower Upper

95 100

174 82.7 0.0 156.8

176 79.1 0.0 152.2

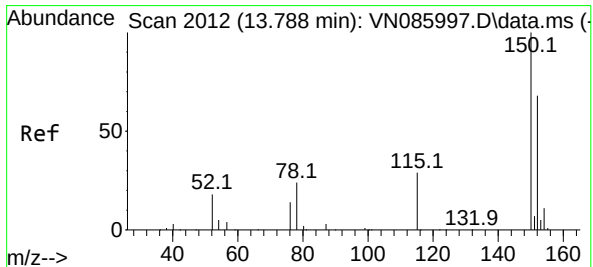
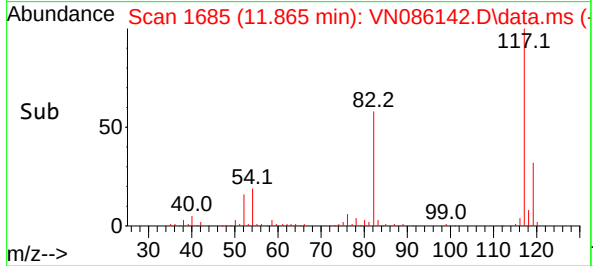
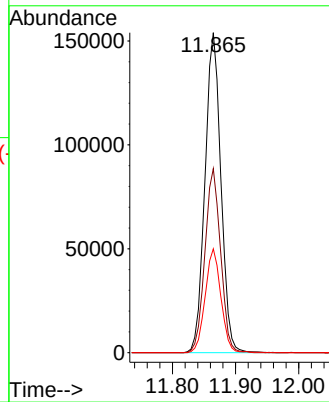
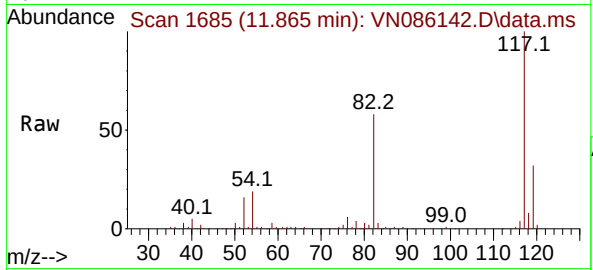




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086142.D
Acq: 28 Mar 2025 11:43

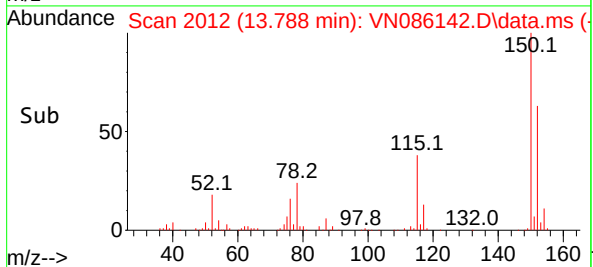
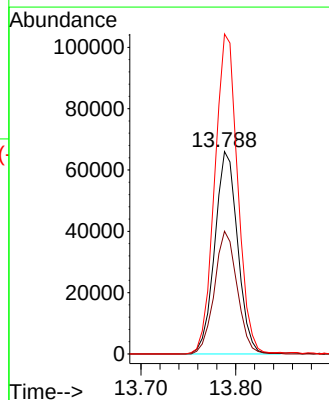
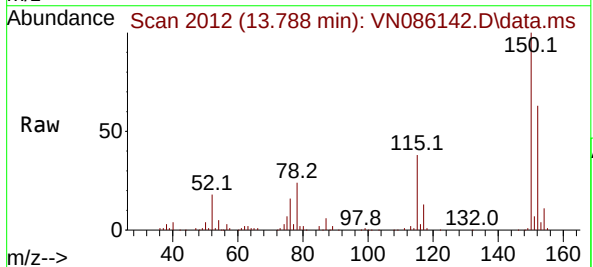
Instrument :
MSVOA_N
ClientSampleId :
VN0328WBL01

Tgt Ion:117 Resp: 270205
Ion Ratio Lower Upper
117 100
82 57.5 46.7 70.1
119 32.4 26.5 39.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN086142.D
Acq: 28 Mar 2025 11:43

Tgt Ion:152 Resp: 111030
Ion Ratio Lower Upper
152 100
115 60.2 31.1 93.2
150 159.2 0.0 359.6



Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	
Project:	RFP 905	Date Received:	
Client Sample ID:	VN0328WBS01	SDG No.:	Q1664
Lab Sample ID:	VN0328WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	SPLP VOA
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086143.D	1		03/28/25 12:07	VN032825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	16.9		0.22	1.00	ug/L
74-87-3	Chloromethane	19.4		0.32	1.00	ug/L
75-01-4	Vinyl Chloride	20.7		0.26	1.00	ug/L
74-83-9	Bromomethane	19.5		1.40	5.00	ug/L
75-00-3	Chloroethane	20.8		0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	18.1		0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	19.7		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	19.4		0.23	1.00	ug/L
67-64-1	Acetone	89.1		1.50	5.00	ug/L
75-15-0	Carbon Disulfide	16.6		0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	18.4		0.16	1.00	ug/L
79-20-9	Methyl Acetate	22.4		0.27	1.00	ug/L
75-09-2	Methylene Chloride	19.8		0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	19.2		0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	20.2		0.23	1.00	ug/L
110-82-7	Cyclohexane	19.5		1.50	5.00	ug/L
78-93-3	2-Butanone	94.4		0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.1		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.3		0.19	1.00	ug/L
74-97-5	Bromochloromethane	19.9		0.22	1.00	ug/L
67-66-3	Chloroform	20.0		0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	19.1		0.20	1.00	ug/L
108-87-2	Methylcyclohexane	17.7		0.16	1.00	ug/L
71-43-2	Benzene	20.3		0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	19.0		0.22	1.00	ug/L
79-01-6	Trichloroethene	18.5		0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	21.2		0.20	1.00	ug/L
75-27-4	Bromodichloromethane	20.1		0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	100		0.68	5.00	ug/L
108-88-3	Toluene	20.8		0.14	1.00	ug/L

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	
Project:	RFP 905		Date Received:	
Client Sample ID:	VN0328WBS01		SDG No.:	Q1664
Lab Sample ID:	VN0328WBS01		Matrix:	Water
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	SPLP VOA
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086143.D	1		03/28/25 12:07	VN032825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	19.1		0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	20.5		0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	21.4		0.21	1.00	ug/L
591-78-6	2-Hexanone	100		0.89	5.00	ug/L
124-48-1	Dibromochloromethane	19.8		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	19.6		0.15	1.00	ug/L
127-18-4	Tetrachloroethene	20.2		0.23	1.00	ug/L
108-90-7	Chlorobenzene	19.2		0.12	1.00	ug/L
100-41-4	Ethyl Benzene	19.5		0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	40.6		0.24	2.00	ug/L
95-47-6	o-Xylene	20.0		0.12	1.00	ug/L
100-42-5	Styrene	20.0		0.15	1.00	ug/L
75-25-2	Bromoform	18.8		0.19	1.00	ug/L
98-82-8	Isopropylbenzene	18.8		0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	18.8		0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	19.1		0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	17.8		0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	18.7		0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	16.8		0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	15.5		0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	16.5		0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.9		74 - 125	102%	SPK: 50
1868-53-7	Dibromofluoromethane	52.6		75 - 124	105%	SPK: 50
2037-26-5	Toluene-d8	54.8		86 - 113	110%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.7		77 - 121	103%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	239000	8.224			
540-36-3	1,4-Difluorobenzene	387000	9.1			
3114-55-4	Chlorobenzene-d5	347000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	178000	13.788			

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	
Project:	RFP 905		Date Received:	
Client Sample ID:	VN0328WBS01		SDG No.:	Q1664
Lab Sample ID:	VN0328WBS01		Matrix:	Water
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	SPLP VOA
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086143.D	1		03/28/25 12:07	VN032825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032825\
 Data File : VN086143.D
 Acq On : 28 Mar 2025 12:07
 Operator : JC\MD
 Sample : VN0328WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0328WBS01

Manual Integrations APPROVED

Reviewed By : John Carlone 03/31/2025
 Supervised By : Mahesh Dadoda 03/31/2025

Quant Time: Mar 28 23:37:47 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 19 03:20:56 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	239264	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	387346	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	347341	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	178334	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	166924	50.948	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 101.900%			
35) Dibromofluoromethane	8.165	113	142340	52.648	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.300%			
50) Toluene-d8	10.565	98	537648	54.793	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 109.580%			
62) 4-Bromofluorobenzene	12.847	95	181055	51.739	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 103.480%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	53703	16.942	ug/l	96
3) Chloromethane	2.359	50	53907	19.398	ug/l	98
4) Vinyl Chloride	2.512	62	58747	20.676	ug/l	96
5) Bromomethane	2.959	94	37652	19.454	ug/l	96
6) Chloroethane	3.118	64	37326	20.824	ug/l	95
7) Trichlorofluoromethane	3.500	101	92695	18.148	ug/l	95
8) Diethyl Ether	3.965	74	28979	18.533	ug/l	91
9) 1,1,2-Trichlorotrifluo...	4.371	101	53496	19.706	ug/l	97
10) Methyl Iodide	4.589	142	65984	18.654	ug/l	99
11) Tert butyl alcohol	5.518	59	37271	80.348	ug/l #	91
12) 1,1-Dichloroethene	4.336	96	47633	19.432	ug/l	95
13) Acrolein	4.183	56	34850	70.439	ug/l	95
14) Allyl chloride	5.024	41	57553	18.820	ug/l	95
15) Acrylonitrile	5.718	53	117970	96.296	ug/l	98
16) Acetone	4.424	43	89137	89.052	ug/l	94
17) Carbon Disulfide	4.712	76	134113	16.636	ug/l	97
18) Methyl Acetate	5.024	43	55443	22.387	ug/l	97
19) Methyl tert-butyl Ether	5.794	73	147757	18.395	ug/l	97
20) Methylene Chloride	5.271	84	57867	19.762	ug/l	98
21) trans-1,2-Dichloroethene	5.789	96	51475	19.215	ug/l	98
22) Diisopropyl ether	6.671	45	145319	22.299	ug/l	98
23) Vinyl Acetate	6.606	43	482504	97.671	ug/l	99
24) 1,1-Dichloroethane	6.571	63	96932	20.228	ug/l	97
25) 2-Butanone	7.482	43	136294	94.366	ug/l	100
26) 2,2-Dichloropropane	7.488	77	86236	18.692	ug/l	99
27) cis-1,2-Dichloroethene	7.482	96	58713	19.287	ug/l	96
28) Bromochloromethane	7.806	49	40303	19.851	ug/l	96
29) Tetrahydrofuran	7.841	42	93684	105.066	ug/l	94
30) Chloroform	7.965	83	106081	20.027	ug/l	99
31) Cyclohexane	8.259	56	79518	19.478	ug/l	96
32) 1,1,1-Trichloroethane	8.165	97	95903	19.127	ug/l	98
36) 1,1-Dichloropropene	8.371	75	67485	18.956	ug/l	98
37) Ethyl Acetate	7.559	43	60763	20.232	ug/l	97
38) Carbon Tetrachloride	8.359	117	89256	19.068	ug/l	97
39) Methylcyclohexane	9.600	83	62612	17.727	ug/l	95
40) Benzene	8.606	78	226337	20.253	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032825\
 Data File : VN086143.D
 Acq On : 28 Mar 2025 12:07
 Operator : JC\MD
 Sample : VN0328WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0328WBS01

Manual Integrations APPROVED

Reviewed By : John Carlone 03/31/2025
 Supervised By : Mahesh Dadoda 03/31/2025

Quant Time: Mar 28 23:37:47 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 19 03:20:56 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	28918	20.164	ug/l	97
42) 1,2-Dichloroethane	8.671	62	74133	19.037	ug/l	97
43) Isopropyl Acetate	8.688	43	100676	15.469	ug/l	97
44) Trichloroethene	9.347	130	53703	18.541	ug/l	99
45) 1,2-Dichloropropane	9.618	63	53884	21.199	ug/l	97
46) Dibromomethane	9.706	93	39653	19.836	ug/l	99
47) Bromodichloromethane	9.882	83	84083	20.126	ug/l	98
48) Methyl methacrylate	9.676	41	43554	20.280	ug/l	96
49) 1,4-Dioxane	9.694	88	20236	398.591	ug/l	95
51) 4-Methyl-2-Pentanone	10.441	43	300347	104.642	ug/l	97
52) Toluene	10.629	92	142366	20.756	ug/l	98
53) t-1,3-Dichloropropene	10.835	75	77526	19.108	ug/l	98
54) cis-1,3-Dichloropropene	10.312	75	87743	20.497	ug/l	97
55) 1,1,2-Trichloroethane	11.012	97	55943	21.369	ug/l	96
56) Ethyl methacrylate	10.871	69	71289	19.930	ug/l	97
57) 1,3-Dichloropropane	11.159	76	88423	19.886	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.159	63	147179	108.017	ug/l	98
59) 2-Hexanone	11.194	43	212621	101.686	ug/l	95
60) Dibromochloromethane	11.359	129	66962	19.822	ug/l	97
61) 1,2-Dibromoethane	11.465	107	52683	19.602	ug/l	96
64) Tetrachloroethene	11.100	164	55906	20.177	ug/l	98
65) Chlorobenzene	11.888	112	152763	19.220	ug/l	96
66) 1,1,1,2-Tetrachloroethane	11.959	131	57418	19.433	ug/l	96
67) Ethyl Benzene	11.965	91	247677	19.481	ug/l	97
68) m/p-Xylenes	12.070	106	202723	40.568	ug/l	96
69) o-Xylene	12.400	106	91701	19.994	ug/l	97
70) Styrene	12.412	104	156977	20.038	ug/l	97
71) Bromoform	12.576	173	46324	18.755	ug/l #	99
73) Isopropylbenzene	12.694	105	228983	18.803	ug/l	98
74) N-amyl acetate	12.494	43	78177	19.187	ug/l	95
75) 1,1,2,2-Tetrachloroethane	12.935	83	77481	18.806	ug/l	97
76) 1,2,3-Trichloropropane	12.988	75	71467m	17.900	ug/l	
77) Bromobenzene	12.976	156	63200	18.612	ug/l	99
78) n-propylbenzene	13.035	91	270846	19.641	ug/l	99
79) 2-Chlorotoluene	13.123	91	175303	19.139	ug/l	99
80) 1,3,5-Trimethylbenzene	13.170	105	200388	19.489	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.735	75	25977	17.202	ug/l	88
82) 4-Chlorotoluene	13.217	91	180075	19.118	ug/l	99
83) tert-Butylbenzene	13.435	119	160550	18.257	ug/l	97
84) 1,2,4-Trimethylbenzene	13.482	105	203809	19.653	ug/l	100
85) sec-Butylbenzene	13.612	105	225569	19.663	ug/l	99
86) p-Isopropyltoluene	13.729	119	183923	18.940	ug/l	98
87) 1,3-Dichlorobenzene	13.729	146	117095	19.130	ug/l	99
88) 1,4-Dichlorobenzene	13.806	146	114724	17.839	ug/l	100
89) n-Butylbenzene	14.053	91	139625	17.656	ug/l	98
90) Hexachloroethane	14.335	117	39502	17.629	ug/l	97
91) 1,2-Dichlorobenzene	14.106	146	113644	18.677	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.717	75	13801	16.781	ug/l	97
93) 1,2,4-Trichlorobenzene	15.388	180	47341	15.473	ug/l	97
94) Hexachlorobutadiene	15.500	225	27945	15.743	ug/l	99
95) Naphthalene	15.641	128	126634	14.294	ug/l	99
96) 1,2,3-Trichlorobenzene	15.835	180	47837	16.478	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032825\
Data File : VN086143.D
Acq On : 28 Mar 2025 12:07
Operator : JC\MD
Sample : VN0328WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0328WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025

Quant Time: Mar 28 23:37:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 19 03:20:56 2025
Response via : Initial Calibration

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

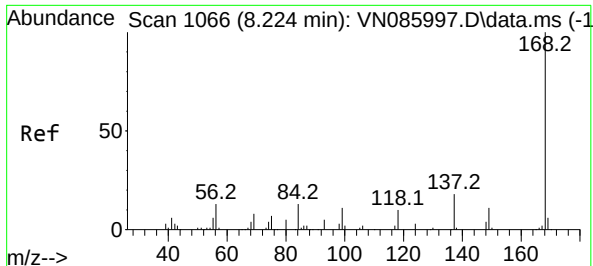
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_N
ClientSampleId :
VN0328WBS01

Manual Integrations

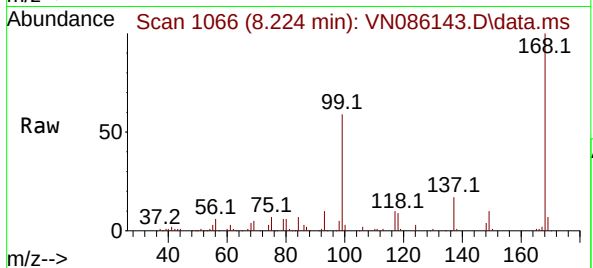
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN086143.D
Acq: 28 Mar 2025 12:07

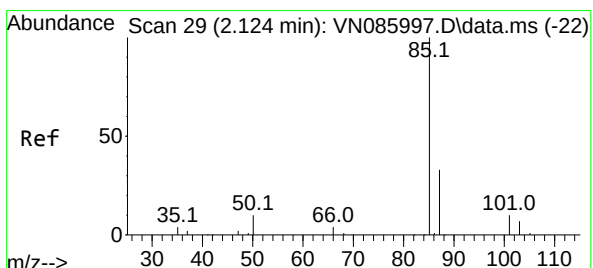
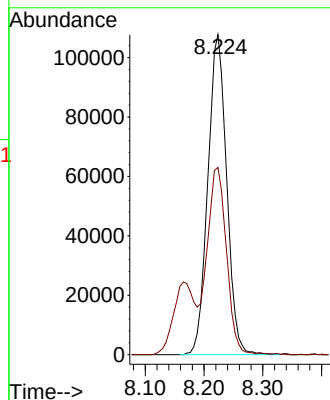
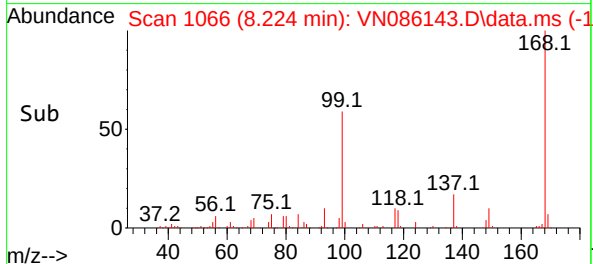
Instrument :
MSVOA_N
ClientSampleId :
VN0328WBS01



Tgt Ion:168 Resp: 239264
Ion Ratio Lower Upper
168 100
99 58.4 49.4 74.2

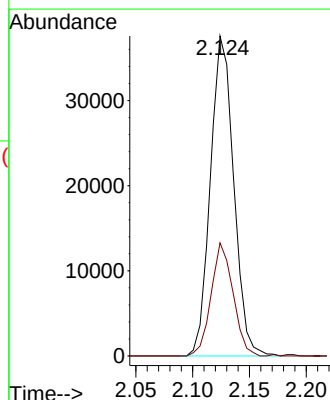
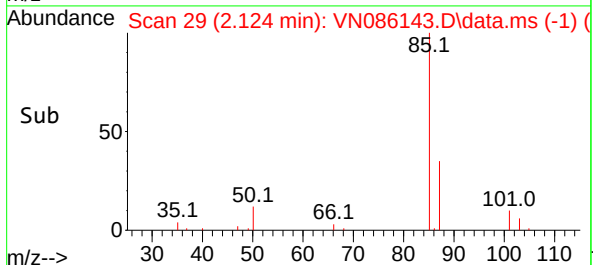
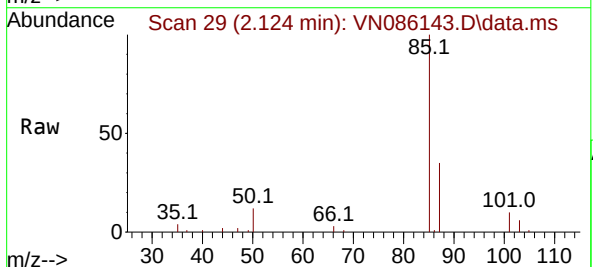
Manual Integrations
APPROVED

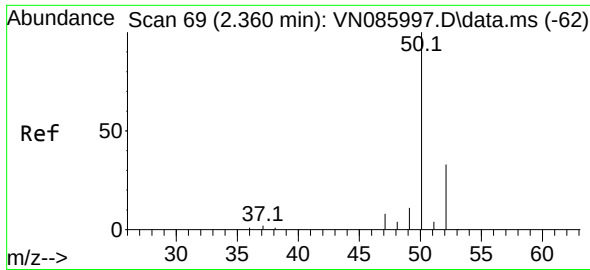
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#2
Dichlorodifluoromethane
Concen: 16.942 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN086143.D
Acq: 28 Mar 2025 12:07

Tgt Ion: 85 Resp: 53703
Ion Ratio Lower Upper
85 100
87 35.4 16.5 49.5





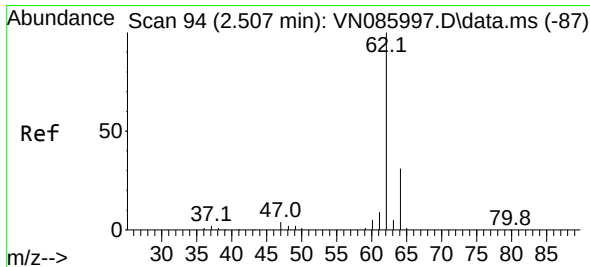
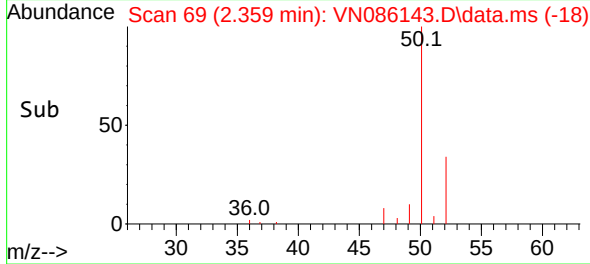
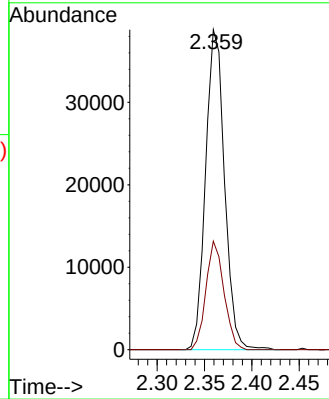
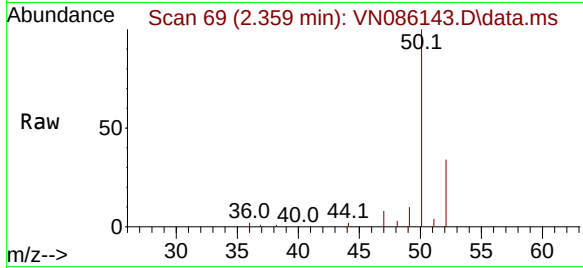
#3
Chloromethane
Concen: 19.398 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN086143.D
Acq: 28 Mar 2025 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0328WBS01

Tgt Ion: 50 Resp: 5390
Ion Ratio Lower Upper
50 100
52 33.9 26.0 39.0

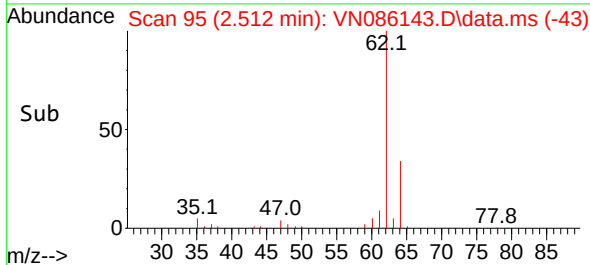
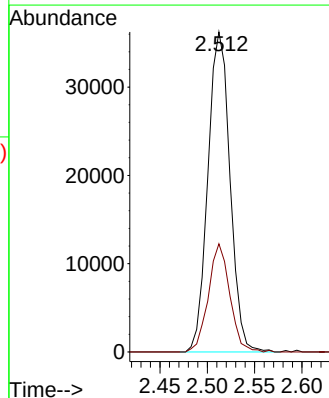
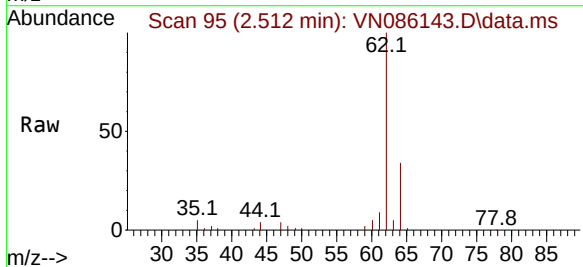
Manual Integrations
APPROVED

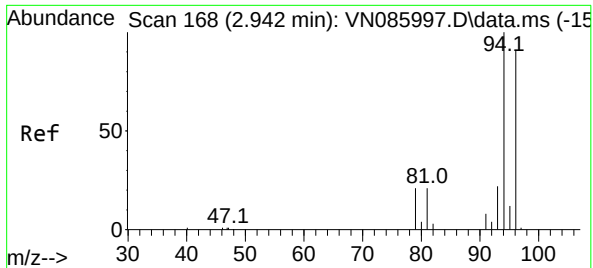
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#4
Vinyl Chloride
Concen: 20.676 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.006 min
Lab File: VN086143.D
Acq: 28 Mar 2025 12:07

Tgt Ion: 62 Resp: 58747
Ion Ratio Lower Upper
62 100
64 33.8 25.2 37.8





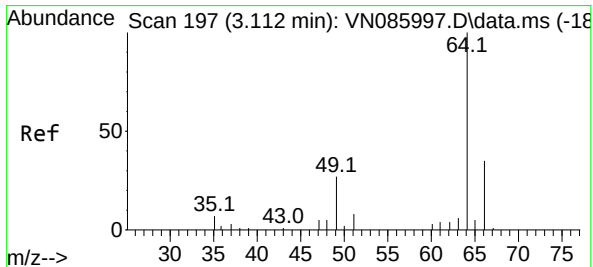
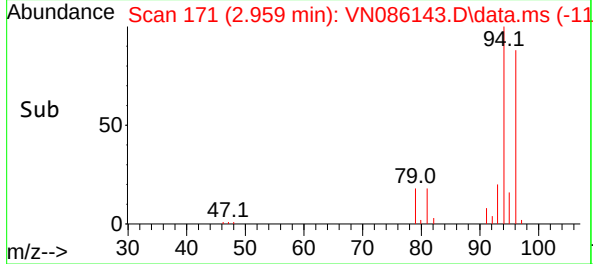
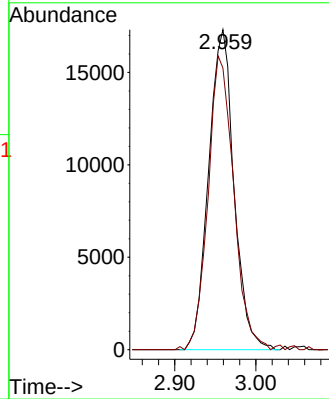
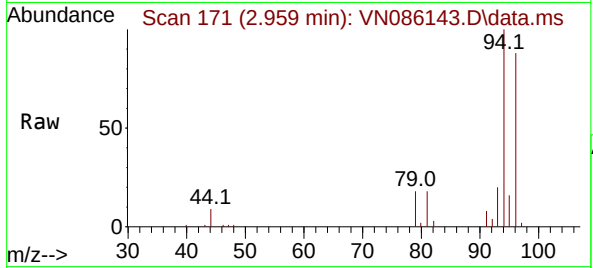
#5
Bromomethane
Concen: 19.454 ug/l
RT: 2.959 min Scan# 11
Delta R.T. 0.017 min
Lab File: VN086143.D
Acq: 28 Mar 2025 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0328WBS01

Tgt Ion: 94 Resp: 37652
Ion Ratio Lower Upper
94 100
96 87.0 72.8 109.2

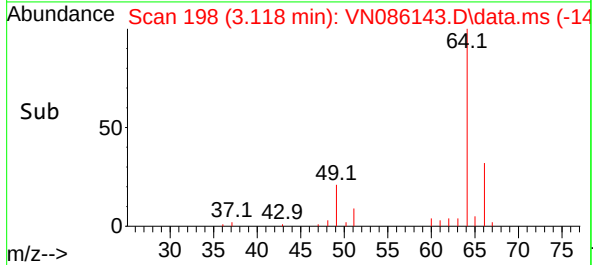
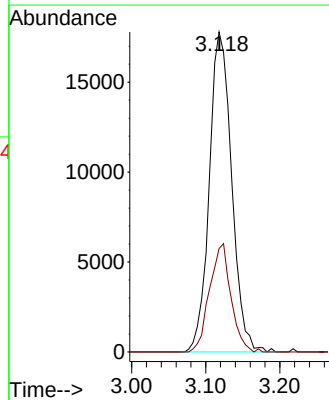
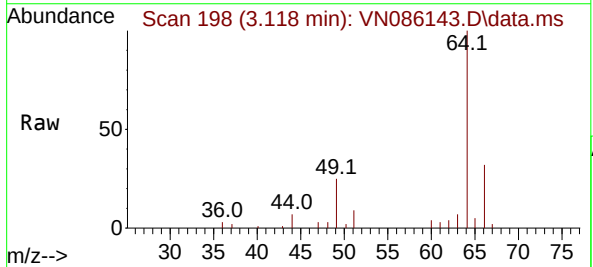
Manual Integrations
APPROVED

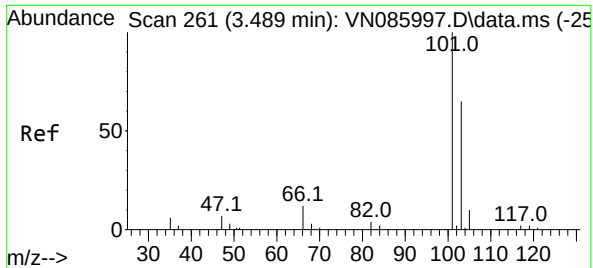
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#6
Chloroethane
Concen: 20.824 ug/l
RT: 3.118 min Scan# 198
Delta R.T. 0.006 min
Lab File: VN086143.D
Acq: 28 Mar 2025 12:07

Tgt Ion: 64 Resp: 37326
Ion Ratio Lower Upper
64 100
66 32.3 28.3 42.5





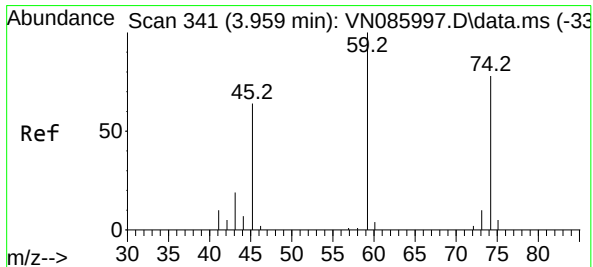
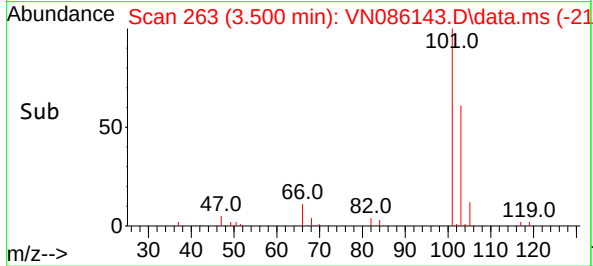
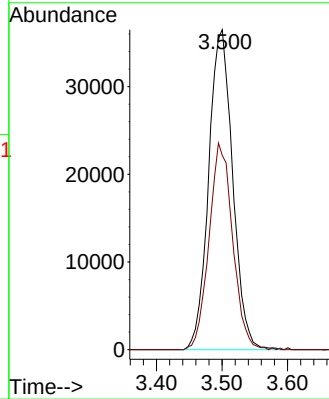
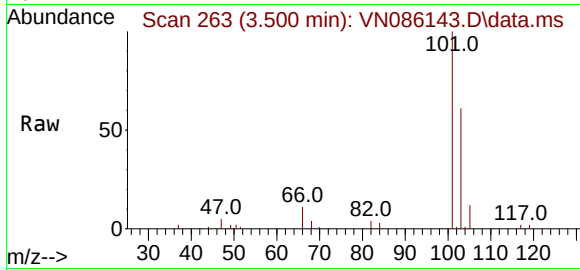
#7
Trichlorofluoromethane
Concen: 18.148 ug/l
RT: 3.500 min Scan# 20
Delta R.T. 0.012 min
Lab File: VN086143.D
Acq: 28 Mar 2025 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0328WBS01

Tgt Ion:101 Resp: 9269
Ion Ratio Lower Upper
101 100
103 60.7 51.7 77.5

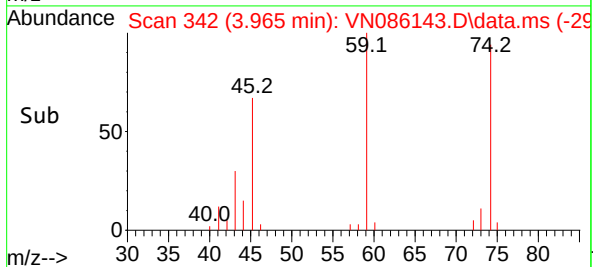
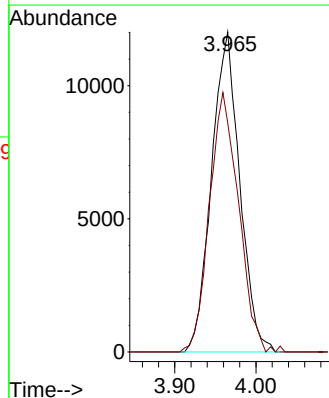
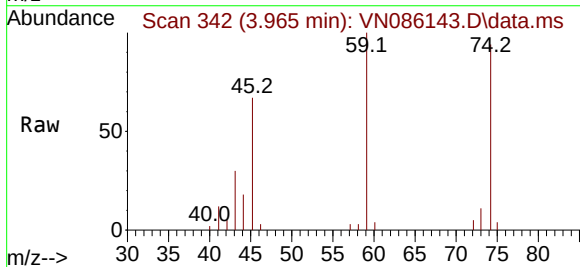
Manual Integrations
APPROVED

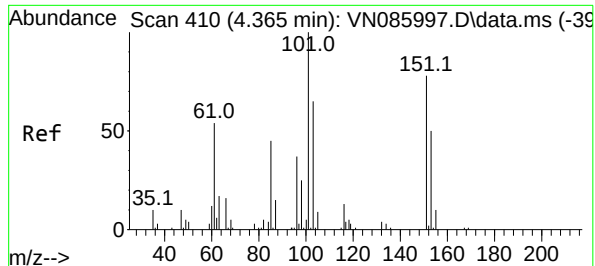
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#8
Diethyl Ether
Concen: 18.533 ug/l
RT: 3.965 min Scan# 342
Delta R.T. 0.006 min
Lab File: VN086143.D
Acq: 28 Mar 2025 12:07

Tgt Ion: 74 Resp: 28979
Ion Ratio Lower Upper
74 100
45 83.8 38.0 113.9





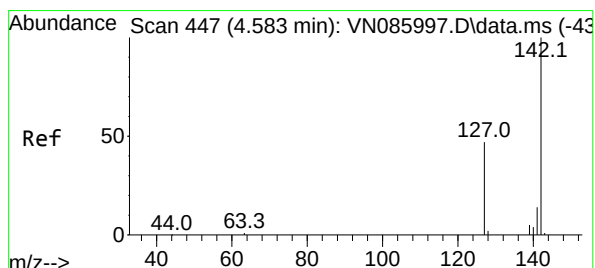
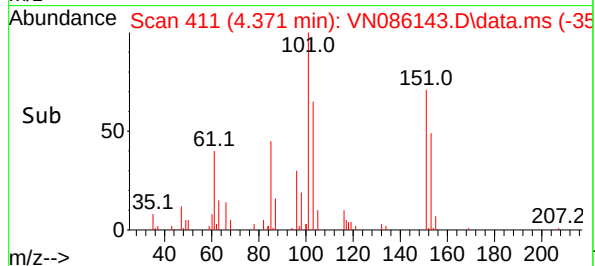
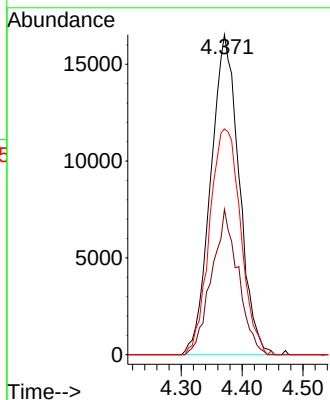
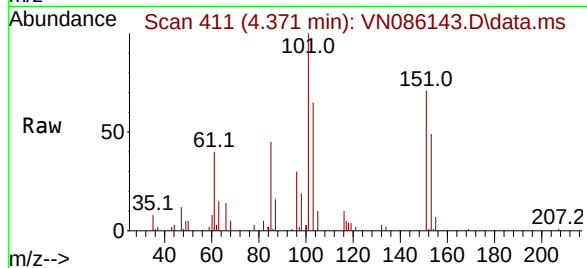
#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.706 ug/l
RT: 4.371 min Scan# 410
Delta R.T. 0.006 min
Lab File: VN086143.D
Acq: 28 Mar 2025 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0328WBS01

Tgt Ion:101 Resp: 53490
Ion Ratio Lower Upper
101 100
85 42.4 36.5 54.7
151 77.1 63.4 95.0

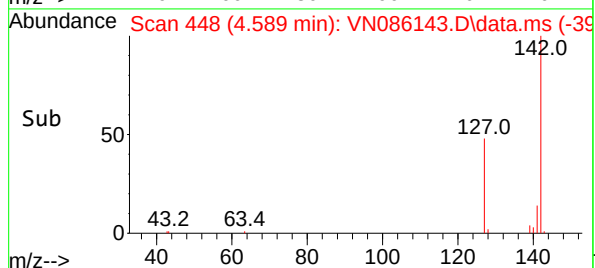
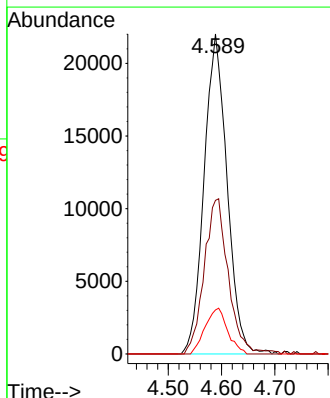
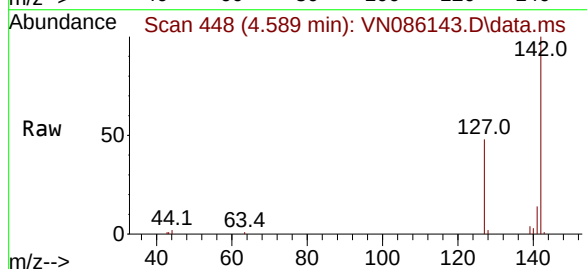
Manual Integrations
APPROVED

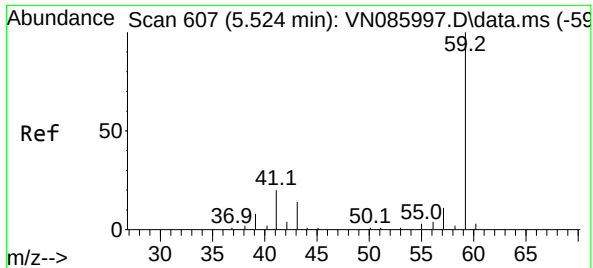
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#10
Methyl Iodide
Concen: 18.654 ug/l
RT: 4.589 min Scan# 448
Delta R.T. 0.006 min
Lab File: VN086143.D
Acq: 28 Mar 2025 12:07

Tgt Ion:142 Resp: 65984
Ion Ratio Lower Upper
142 100
127 48.0 37.5 56.3
141 13.8 11.0 16.6





#11

Tert butyl alcohol

Concen: 80.348 ug/l

RT: 5.518 min Scan# 607

Delta R.T. -0.006 min

Lab File: VN086143.D

Acq: 28 Mar 2025 12:07

Instrument :

MSVOA_N

ClientSampleId :

VN0328WBS01

Tgt Ion: 59 Resp: 3727

Ion Ratio Lower Upper

59 100

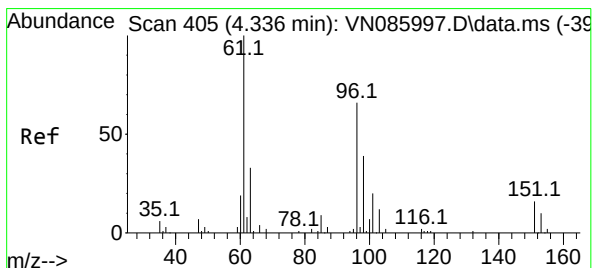
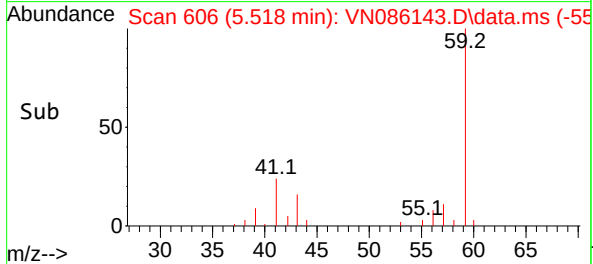
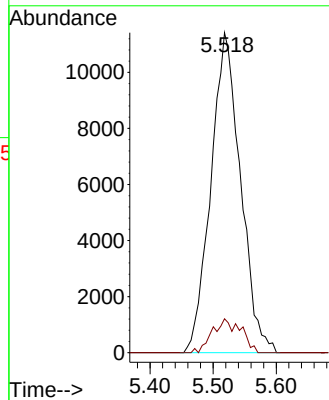
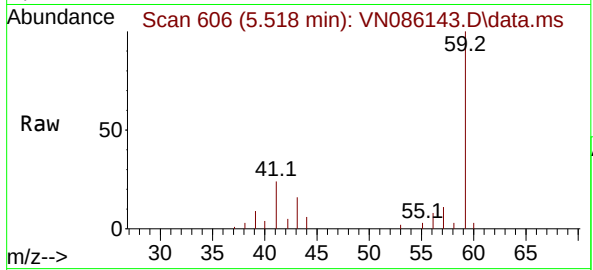
57 6.7 7.9 11.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/31/2025

Supervised By :Mahesh Dadoda 03/31/2025



#12

1,1-Dichloroethene

Concen: 19.432 ug/l

RT: 4.336 min Scan# 405

Delta R.T. -0.000 min

Lab File: VN086143.D

Acq: 28 Mar 2025 12:07

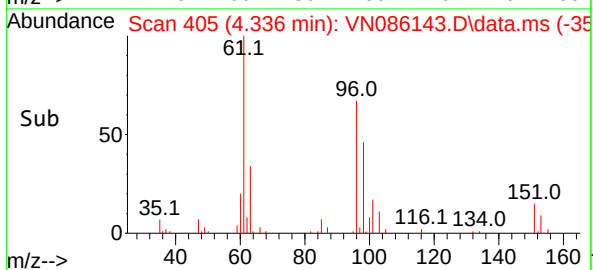
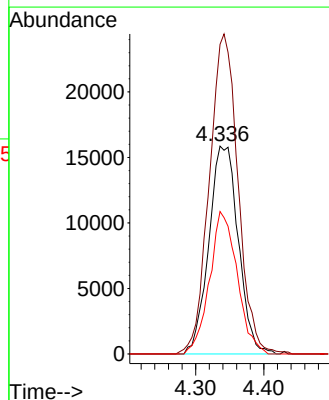
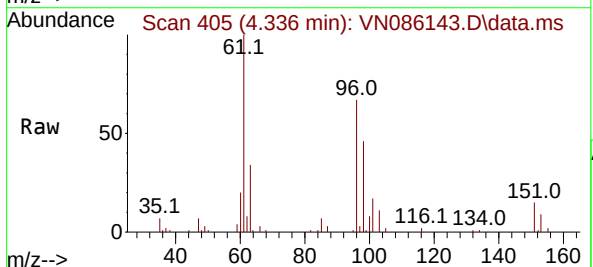
Tgt Ion: 96 Resp: 47633

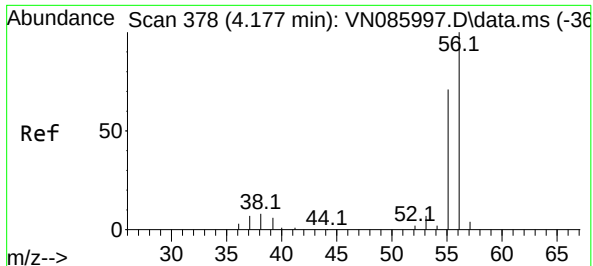
Ion Ratio Lower Upper

96 100

61 147.9 120.5 180.7

98 68.5 47.4 71.0





#13

Acrolein

Concen: 70.439 ug/l

RT: 4.183 min Scan# 31

Delta R.T. 0.006 min

Lab File: VN086143.D

Acq: 28 Mar 2025 12:07

Instrument :

MSVOA_N

ClientSampleId :

VN0328WBS01

Tgt Ion: 56 Resp: 34850

Ion Ratio Lower Upper

56 100

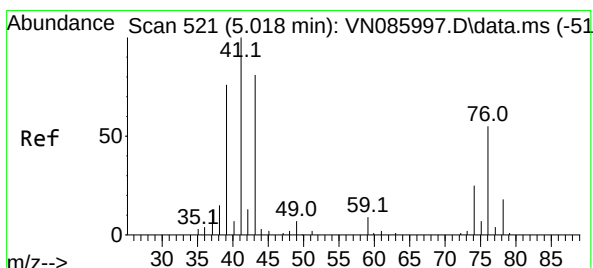
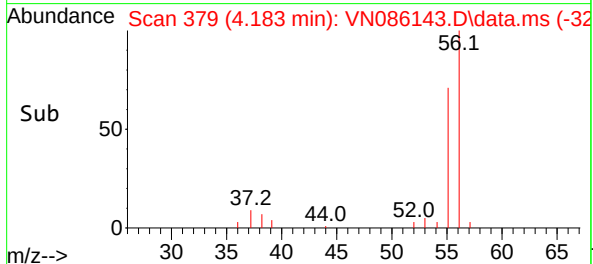
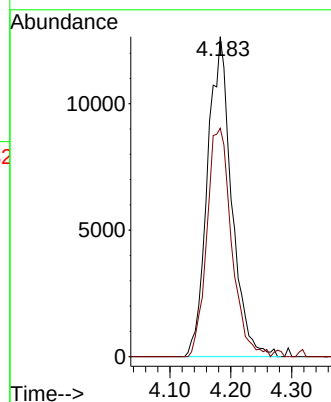
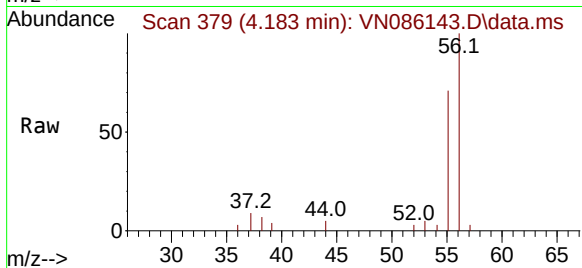
55 73.0 55.1 82.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/31/2025

Supervised By :Mahesh Dadoda 03/31/2025



#14

Allyl chloride

Concen: 18.820 ug/l

RT: 5.024 min Scan# 522

Delta R.T. 0.006 min

Lab File: VN086143.D

Acq: 28 Mar 2025 12:07

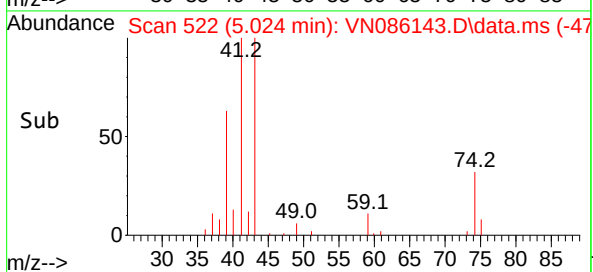
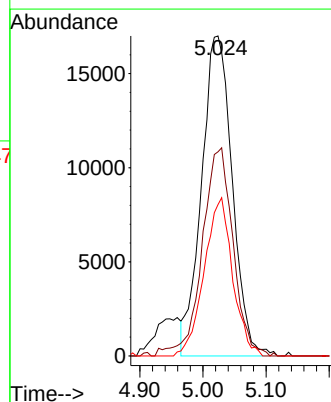
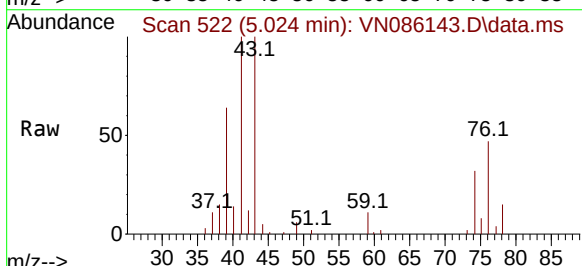
Tgt Ion: 41 Resp: 57553

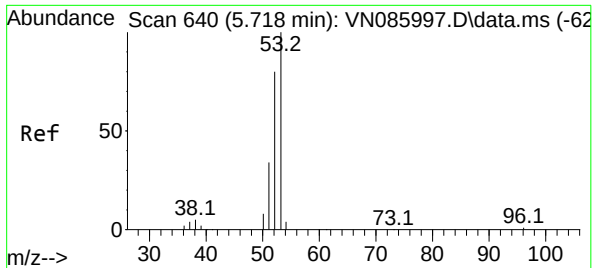
Ion Ratio Lower Upper

41 100

39 65.5 55.5 83.3

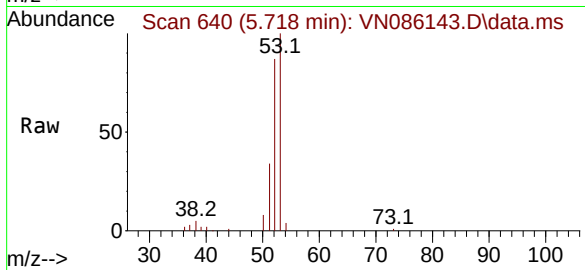
76 45.7 39.1 58.7





#15
Acrylonitrile
Concen: 96.296 ug/l
RT: 5.718 min Scan# 640
Delta R.T. -0.000 min
Lab File: VN086143.D
Acq: 28 Mar 2025 12:07

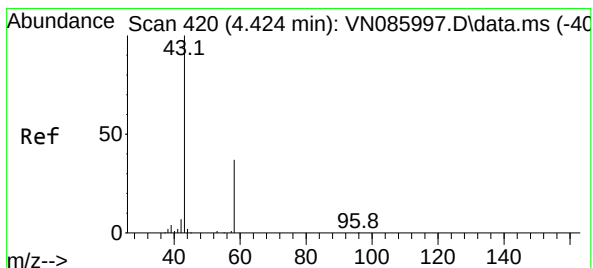
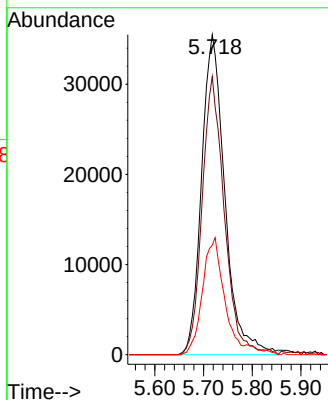
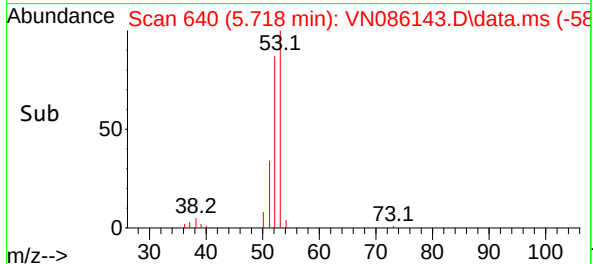
Instrument :
MSVOA_N
ClientSampleId :
VN0328WBS01



Tgt Ion: 53 Resp: 117970
Ion Ratio Lower Upper
53 100
52 82.7 63.9 95.9
51 33.8 27.1 40.7

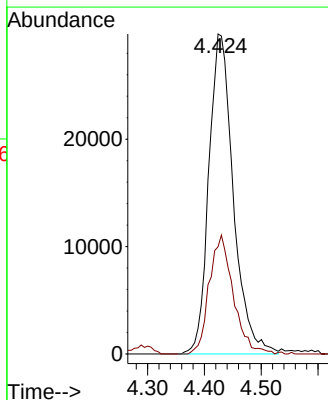
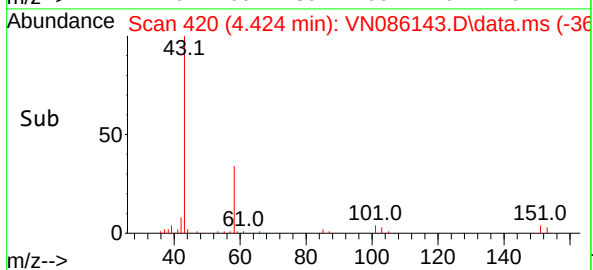
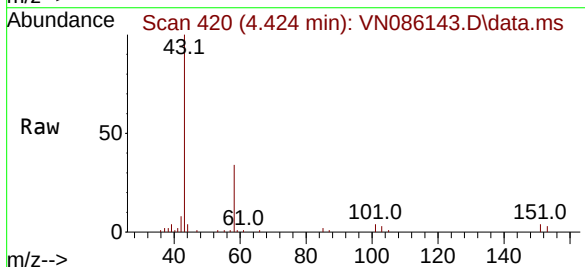
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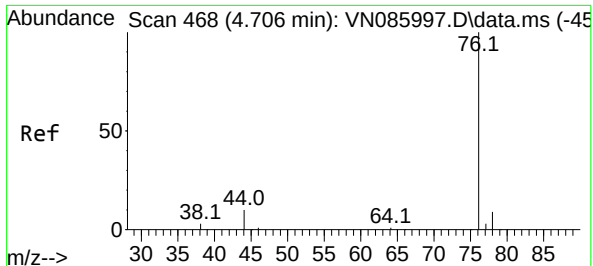
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#16
Acetone
Concen: 89.052 ug/l
RT: 4.424 min Scan# 420
Delta R.T. -0.000 min
Lab File: VN086143.D
Acq: 28 Mar 2025 12:07

Tgt Ion: 43 Resp: 89137
Ion Ratio Lower Upper
43 100
58 33.5 29.4 44.2





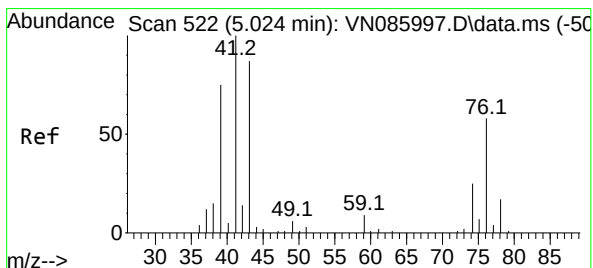
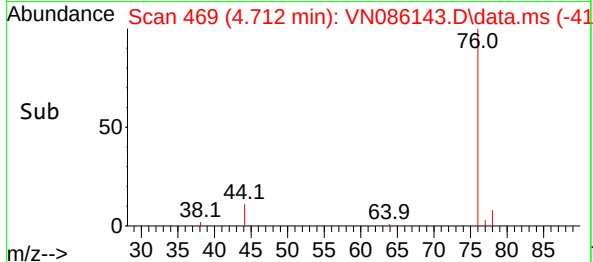
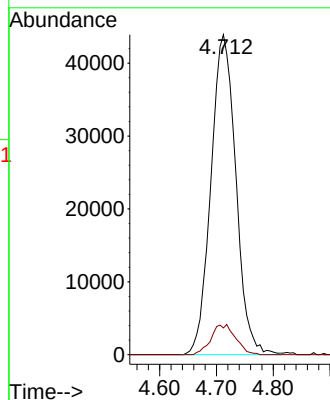
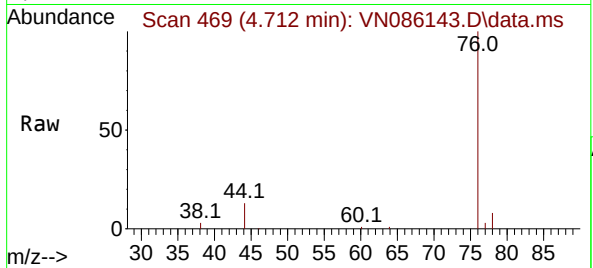
#17
Carbon Disulfide
Concen: 16.636 ug/l
RT: 4.712 min Scan# 469
Delta R.T. 0.006 min
Lab File: VN086143.D
Acq: 28 Mar 2025 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0328WBS01

Tgt Ion: 76 Resp: 13411
Ion Ratio Lower Upper
76 100
78 8.3 7.4 11.2

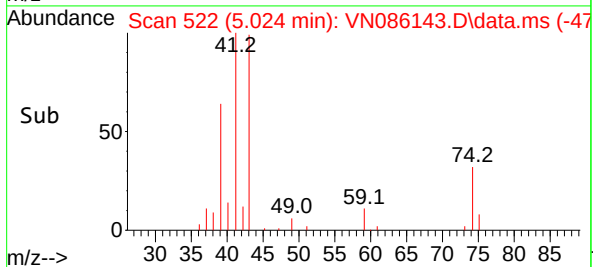
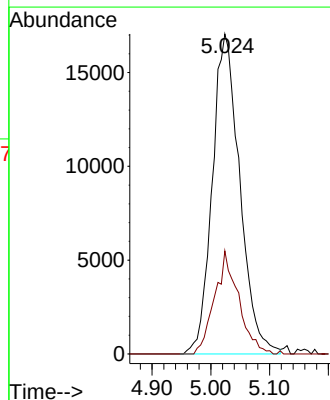
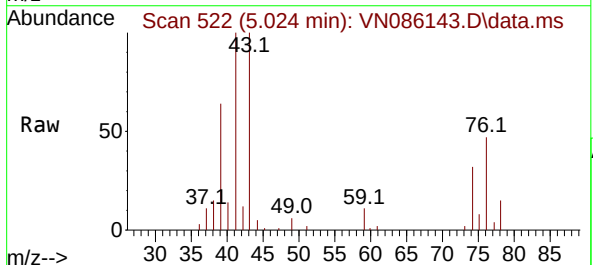
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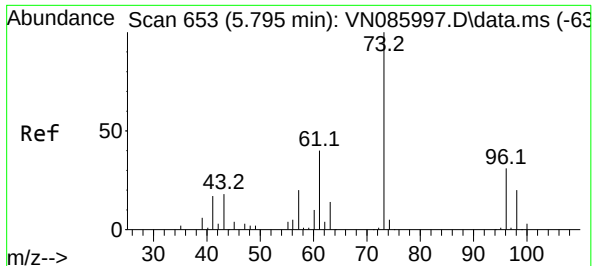
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#18
Methyl Acetate
Concen: 22.387 ug/l
RT: 5.024 min Scan# 522
Delta R.T. -0.000 min
Lab File: VN086143.D
Acq: 28 Mar 2025 12:07

Tgt Ion: 43 Resp: 55443
Ion Ratio Lower Upper
43 100
74 28.1 23.9 35.9





#19

Methyl tert-butyl Ether

Concen: 18.395 ug/l

RT: 5.794 min Scan# 61

Delta R.T. -0.000 min

Lab File: VN086143.D

Acq: 28 Mar 2025 12:07

Instrument :

MSVOA_N

ClientSampleId :

VN0328WBS01

Tgt Ion: 73 Resp: 14775

Ion Ratio Lower Upper

73 100

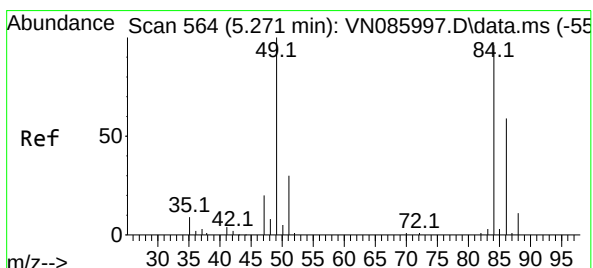
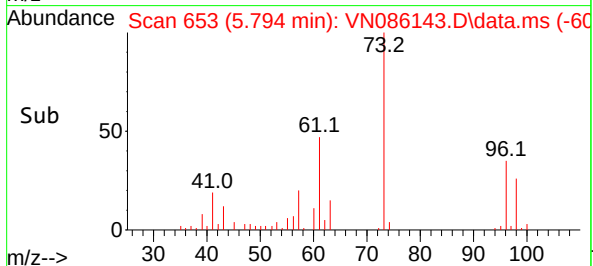
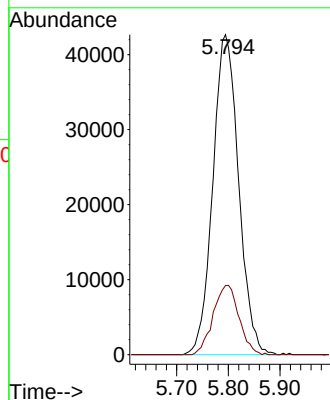
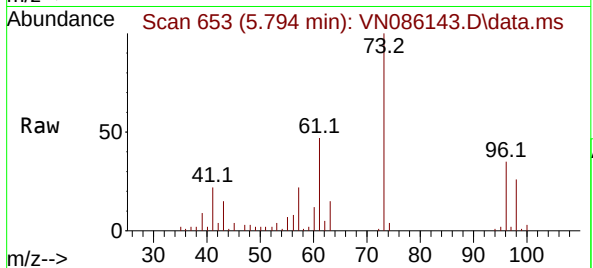
57 21.6 16.1 24.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/31/2025

Supervised By :Mahesh Dadoda 03/31/2025



#20

Methylene Chloride

Concen: 19.762 ug/l

RT: 5.271 min Scan# 564

Delta R.T. -0.000 min

Lab File: VN086143.D

Acq: 28 Mar 2025 12:07

Tgt Ion: 84 Resp: 57867

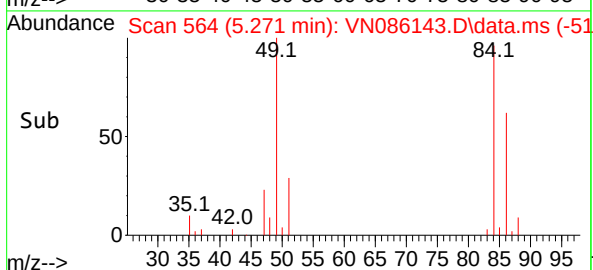
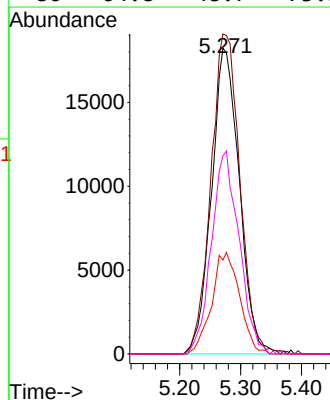
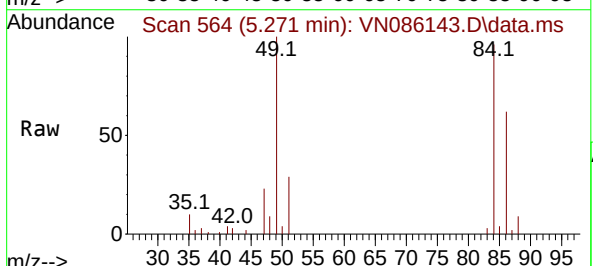
Ion Ratio Lower Upper

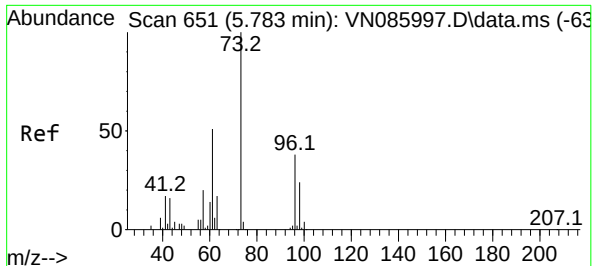
84 100

49 104.7 83.3 124.9

51 30.7 24.8 37.2

86 64.8 48.7 73.1





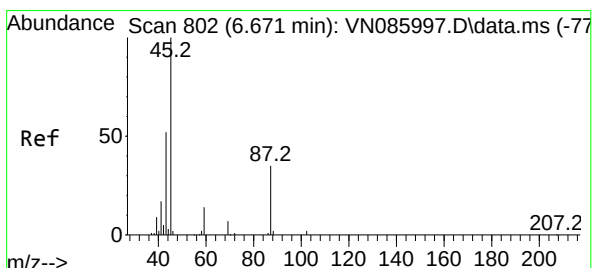
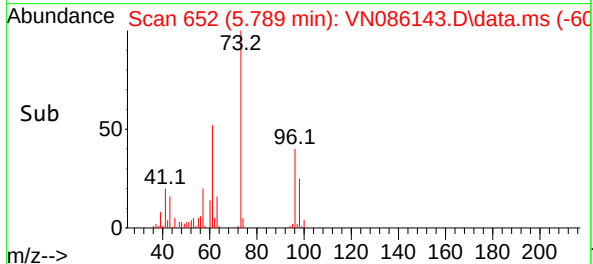
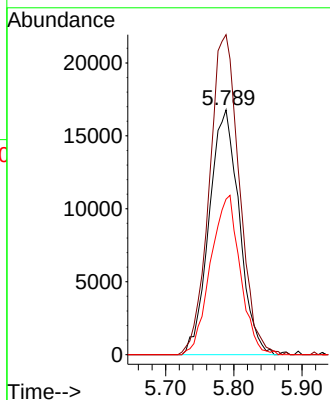
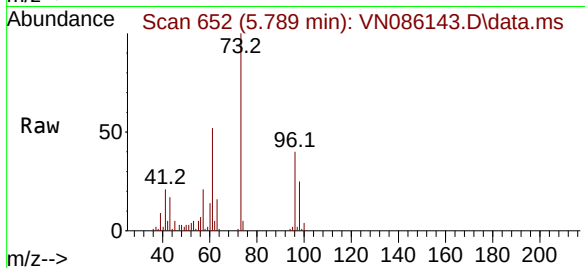
#21
trans-1,2-Dichloroethene
Concen: 19.215 ug/l
RT: 5.789 min Scan# 61
Delta R.T. 0.006 min
Lab File: VN086143.D
Acq: 28 Mar 2025 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0328WBS01

Tgt Ion: 96 Resp: 5147
Ion Ratio Lower Upper
96 100
61 130.7 106.6 160.0
98 63.5 50.0 75.0

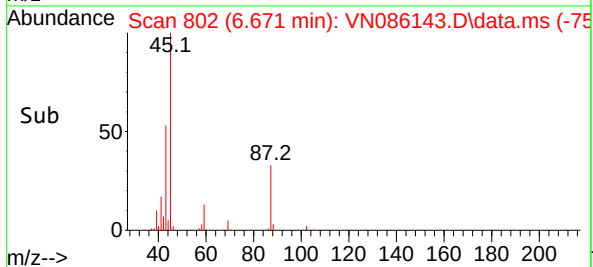
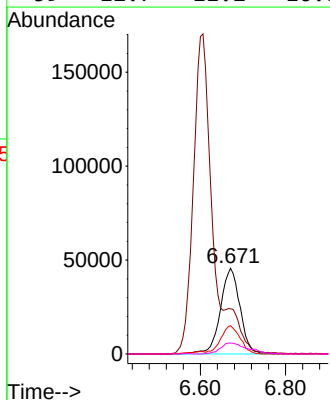
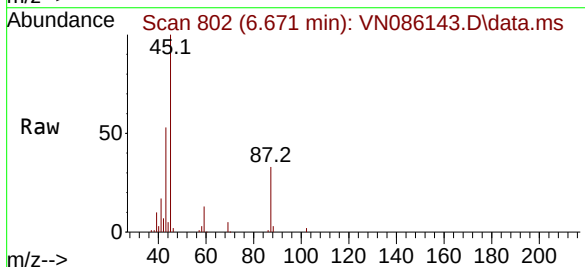
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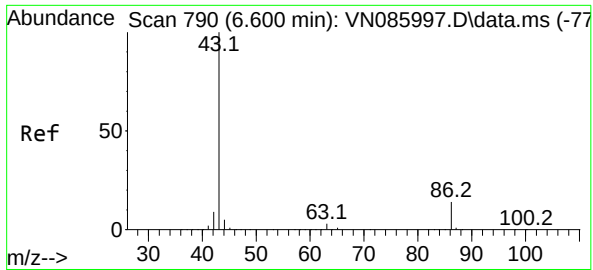
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#22
Diisopropyl ether
Concen: 22.299 ug/l
RT: 6.671 min Scan# 802
Delta R.T. -0.000 min
Lab File: VN086143.D
Acq: 28 Mar 2025 12:07

Tgt Ion: 45 Resp: 145319
Ion Ratio Lower Upper
45 100
43 51.7 41.2 61.8
87 33.0 28.5 42.7
59 12.7 11.2 16.8





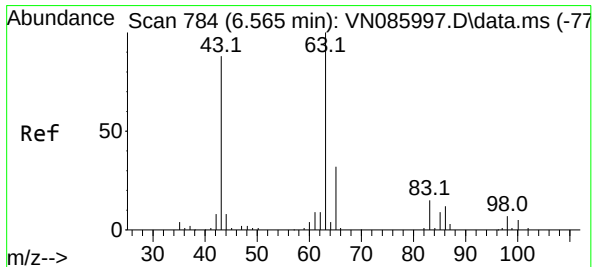
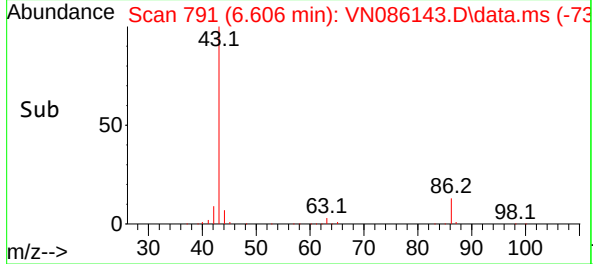
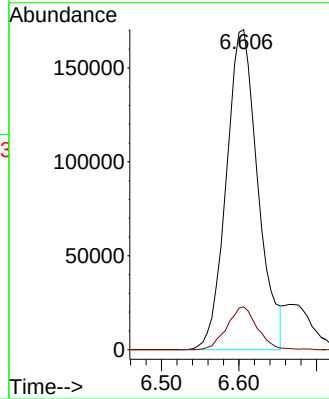
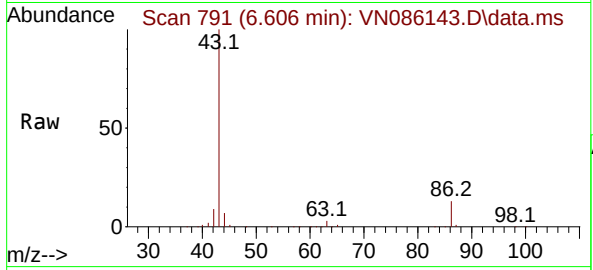
#23
Vinyl Acetate
Concen: 97.671 ug/l
RT: 6.606 min Scan# 791
Delta R.T. 0.006 min
Lab File: VN086143.D
Acq: 28 Mar 2025 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0328WBS01

Tgt Ion: 43 Resp: 482504
Ion Ratio Lower Upper
43 100
86 13.4 11.2 16.8

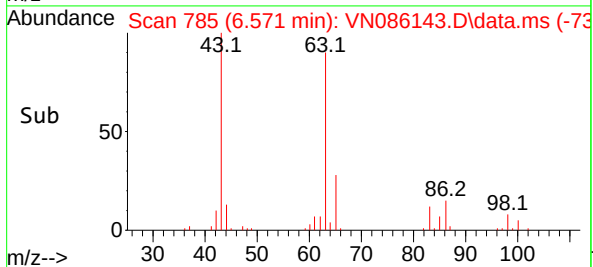
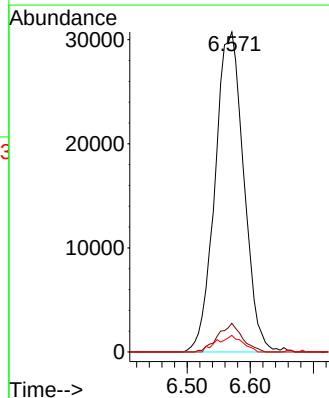
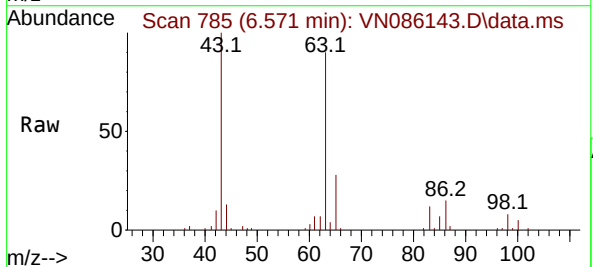
Manual Integrations
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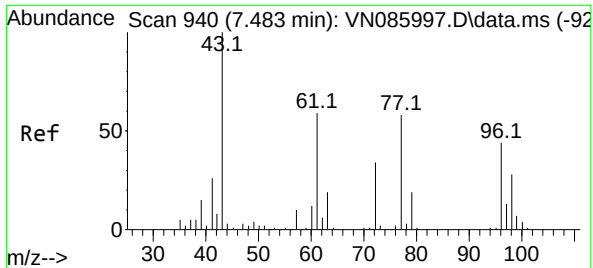
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#24
1,1-Dichloroethane
Concen: 20.228 ug/l
RT: 6.571 min Scan# 785
Delta R.T. 0.006 min
Lab File: VN086143.D
Acq: 28 Mar 2025 12:07

Tgt Ion: 63 Resp: 96932
Ion Ratio Lower Upper
63 100
98 9.0 3.6 10.9
100 5.2 2.5 7.5





#25

2-Butanone

Concen: 94.366 ug/l

RT: 7.482 min Scan# 940

Delta R.T. -0.000 min

Lab File: VN086143.D

Acq: 28 Mar 2025 12:07

Instrument :

MSVOA_N

ClientSampleId :

VN0328WBS01

Tgt Ion: 43 Resp: 136294

Ion Ratio Lower Upper

43 100

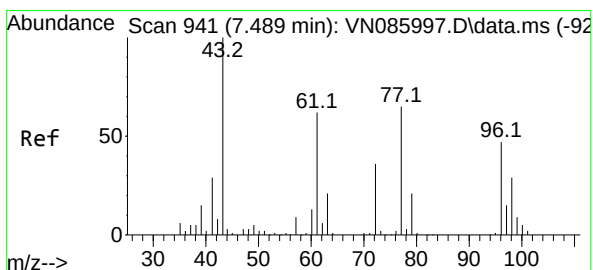
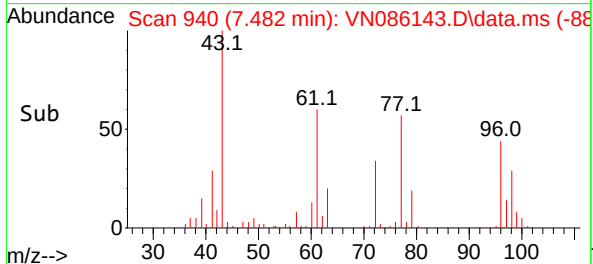
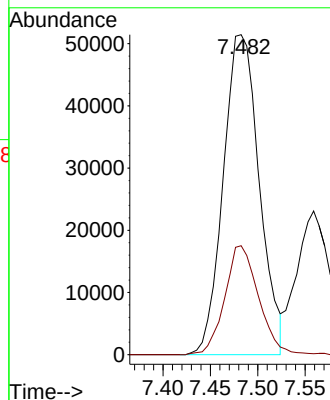
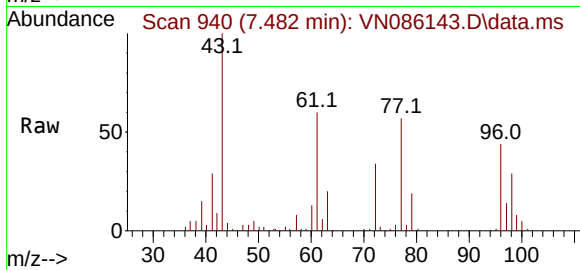
72 34.0 27.4 41.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/31/2025

Supervised By :Mahesh Dadoda 03/31/2025



#26

2,2-Dichloropropane

Concen: 18.692 ug/l

RT: 7.488 min Scan# 941

Delta R.T. -0.000 min

Lab File: VN086143.D

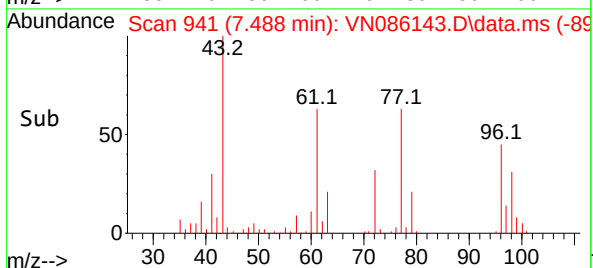
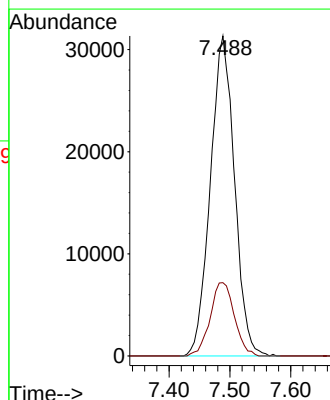
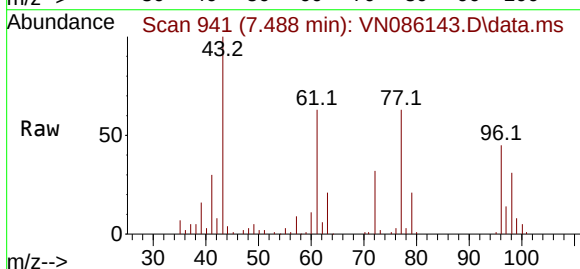
Acq: 28 Mar 2025 12:07

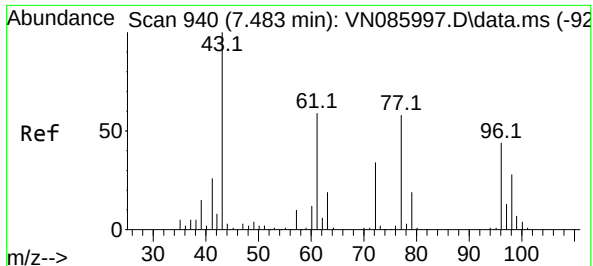
Tgt Ion: 77 Resp: 86236

Ion Ratio Lower Upper

77 100

97 23.0 11.2 33.5





#27

cis-1,2-Dichloroethene

Concen: 19.287 ug/l

RT: 7.482 min Scan# 940

Delta R.T. -0.000 min

Lab File: VN086143.D

Acq: 28 Mar 2025 12:07

Instrument :

MSVOA_N

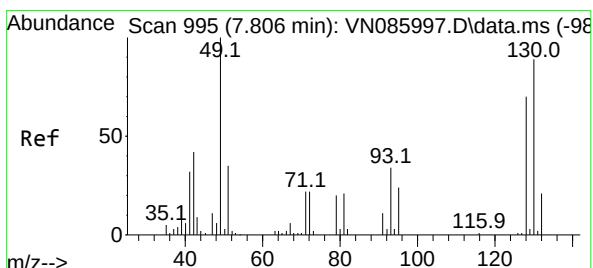
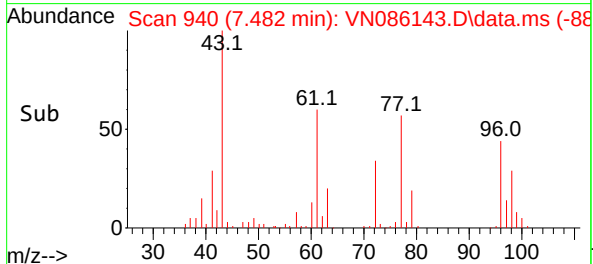
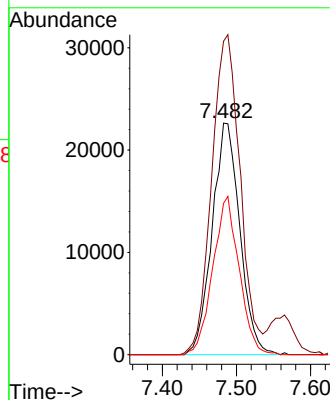
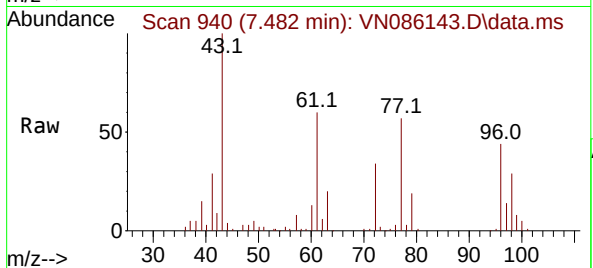
ClientSampleId :

VN0328WBS01

Tgt Ion:	96	Resp:	5871
Ion	Ratio	Lower	Upper
96	100		
61	142.3	0.0	272.8
98	65.0	0.0	124.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#28

Bromochloromethane

Concen: 19.851 ug/l

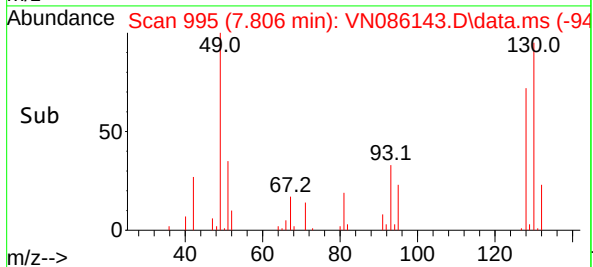
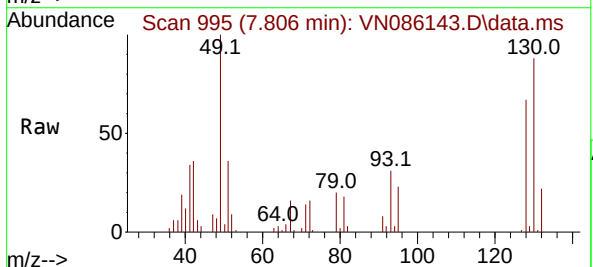
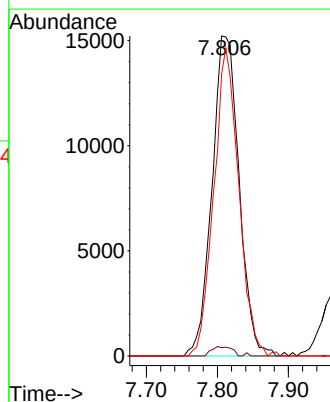
RT: 7.806 min Scan# 995

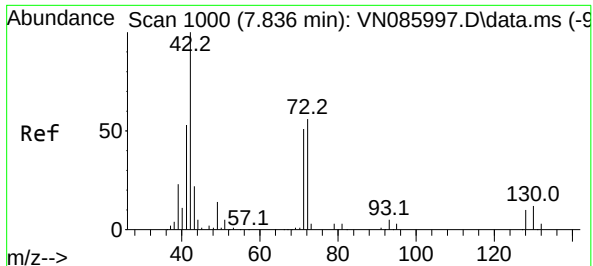
Delta R.T. -0.000 min

Lab File: VN086143.D

Acq: 28 Mar 2025 12:07

Tgt Ion:	49	Resp:	40303
Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	4.2
130	88.7	74.2	111.4





#29

Tetrahydrofuran

Concen: 105.066 ug/l

RT: 7.841 min Scan# 1001

Delta R.T. 0.006 min

Lab File: VN086143.D

Acq: 28 Mar 2025 12:07

Instrument :

MSVOA_N

ClientSampleId :

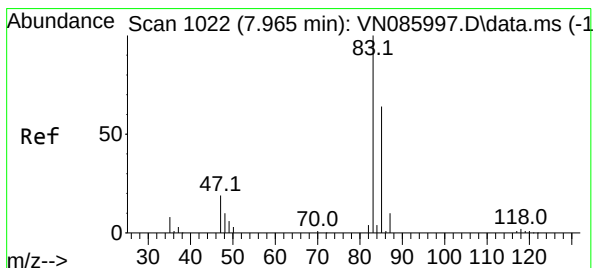
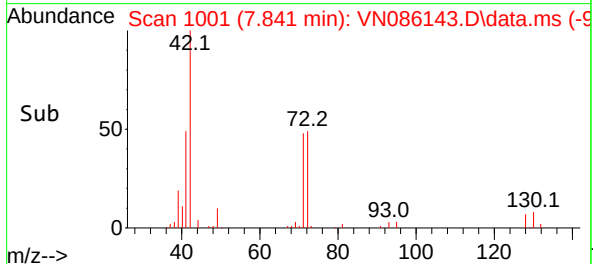
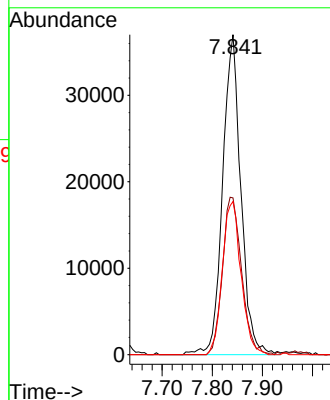
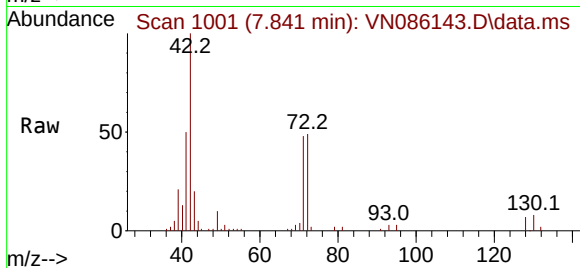
VN0328WBS01

Tgt Ion:	42	Resp:	93684
Ion	Ratio	Lower	Upper
42	100		
72	51.4	45.0	67.4
71	49.0	41.9	62.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/31/2025

Supervised By :Mahesh Dadoda 03/31/2025



#30

Chloroform

Concen: 20.027 ug/l

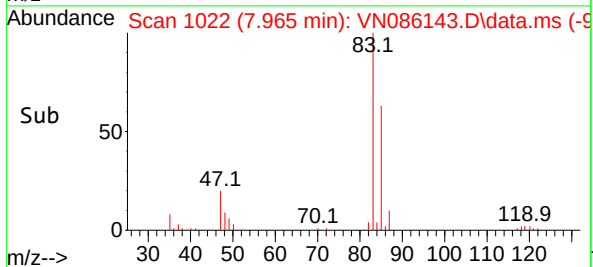
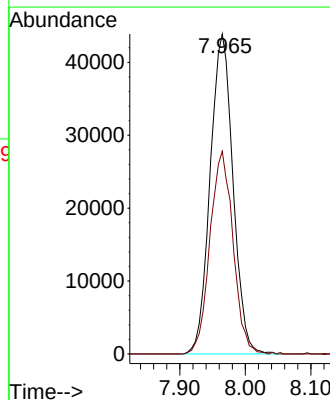
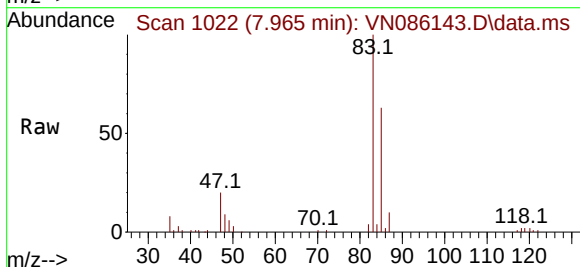
RT: 7.965 min Scan# 1022

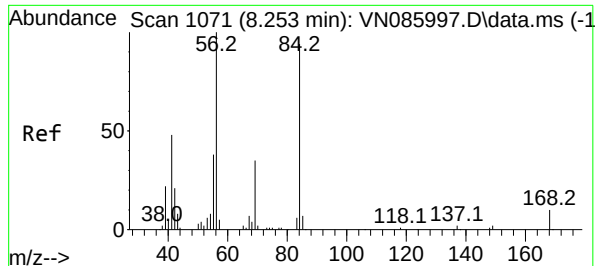
Delta R.T. -0.000 min

Lab File: VN086143.D

Acq: 28 Mar 2025 12:07

Tgt Ion:	83	Resp:	106081
Ion	Ratio	Lower	Upper
83	100		
85	63.4	51.5	77.3





#31

Cyclohexane

Concen: 19.478 ug/l

RT: 8.259 min Scan# 1071

Delta R.T. 0.006 min

Lab File: VN086143.D

Acq: 28 Mar 2025 12:07

Instrument :

MSVOA_N

ClientSampleId :

VN0328WBS01

Tgt Ion: 56 Resp: 79518

Ion Ratio Lower Upper

56 100

69 33.0 28.0 42.0

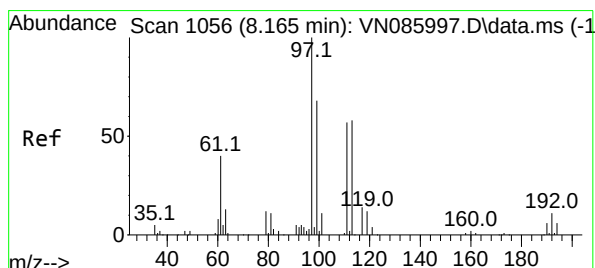
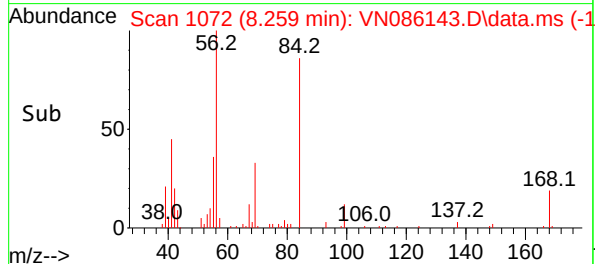
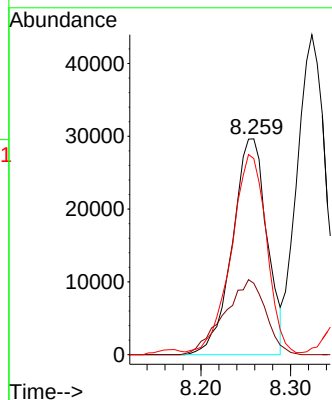
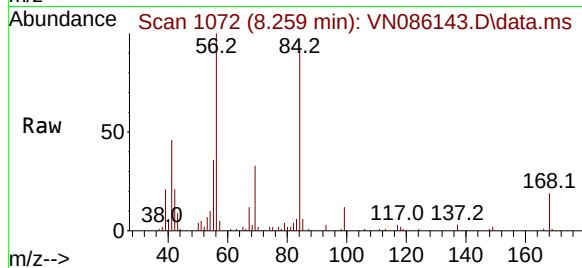
84 89.2 75.0 112.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/31/2025

Supervised By :Mahesh Dadoda 03/31/2025



#32

1,1,1-Trichloroethane

Concen: 19.127 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086143.D

Acq: 28 Mar 2025 12:07

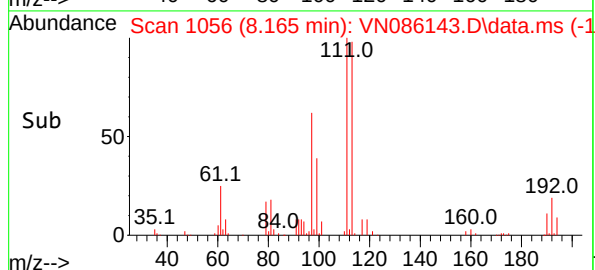
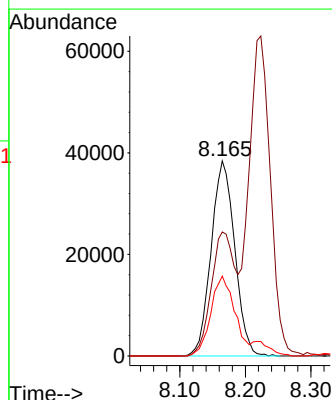
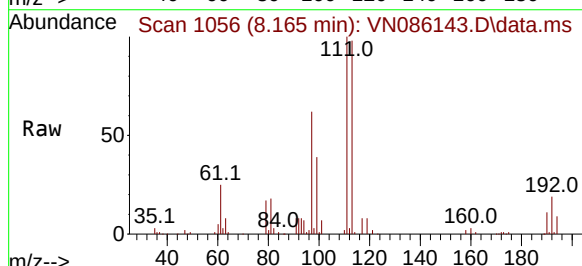
Tgt Ion: 97 Resp: 95903

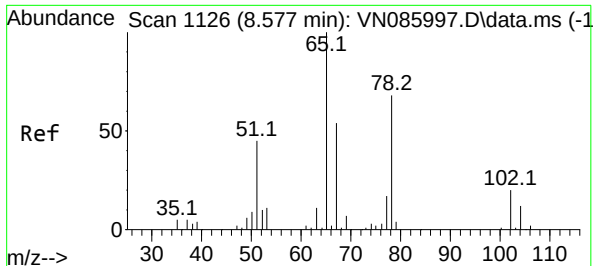
Ion Ratio Lower Upper

97 100

99 63.6 52.8 79.2

61 41.7 33.6 50.4





#33

1,2-Dichloroethane-d4

Concen: 50.948 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN086143.D

Acq: 28 Mar 2025 12:07

Instrument :

MSVOA_N

ClientSampleId :

VN0328WBS01

Tgt Ion: 65 Resp: 166924

Ion Ratio Lower Upper

65 100

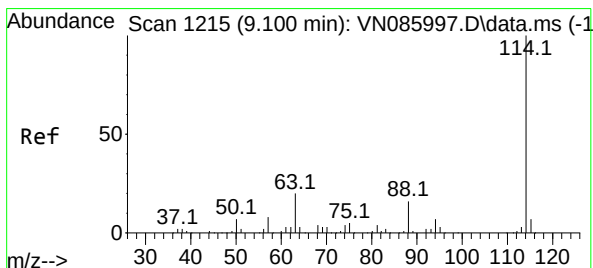
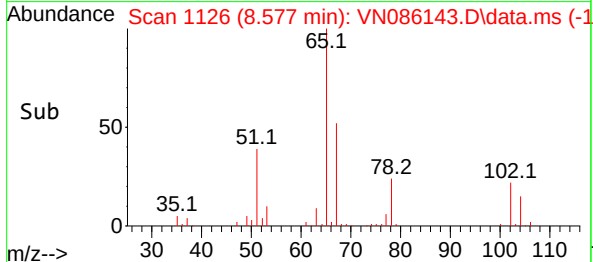
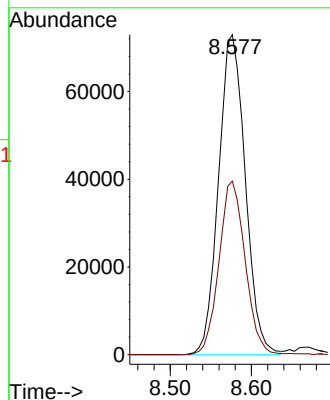
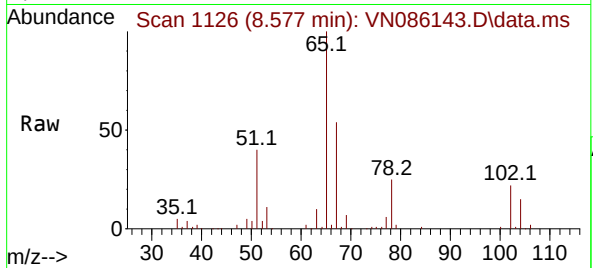
67 53.0 0.0 102.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/31/2025

Supervised By :Mahesh Dadoda 03/31/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN086143.D

Acq: 28 Mar 2025 12:07

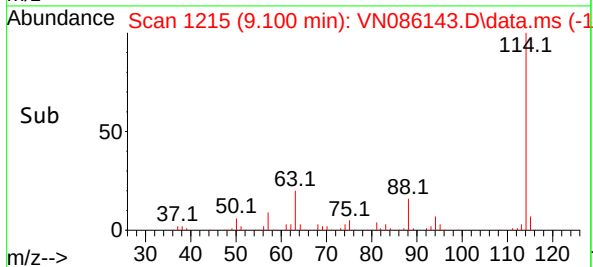
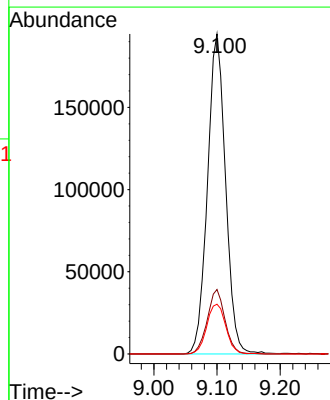
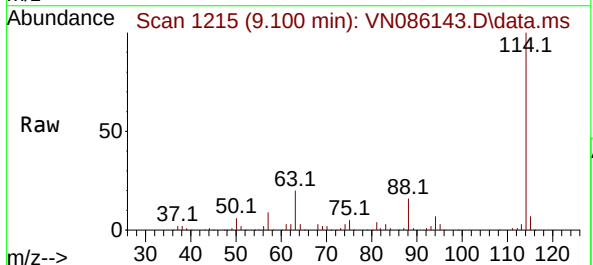
Tgt Ion:114 Resp: 387346

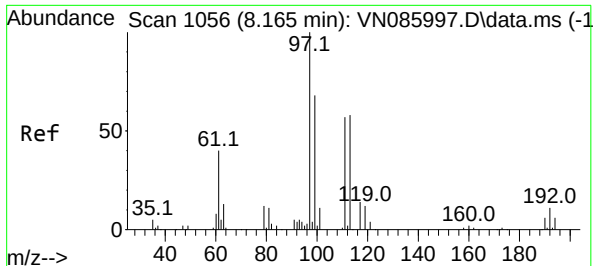
Ion Ratio Lower Upper

114 100

63 20.2 0.0 39.6

88 15.6 0.0 32.6





#35

Dibromofluoromethane

Concen: 52.648 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086143.D

Acq: 28 Mar 2025 12:07

Instrument :

MSVOA_N

ClientSampleId :

VN0328WBS01

Tgt Ion:113 Resp: 142340

Ion Ratio Lower Upper

113 100

111 102.4 81.8 122.8

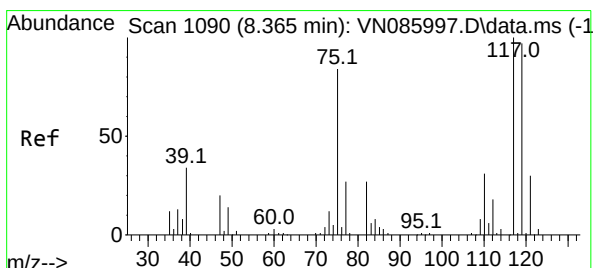
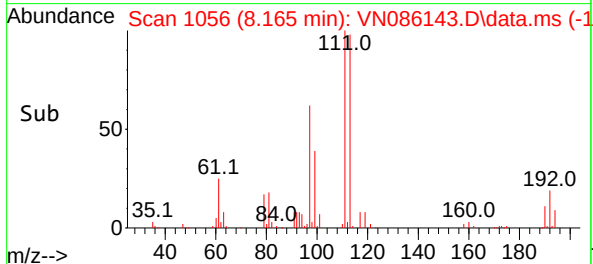
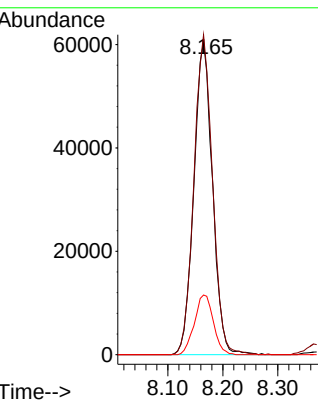
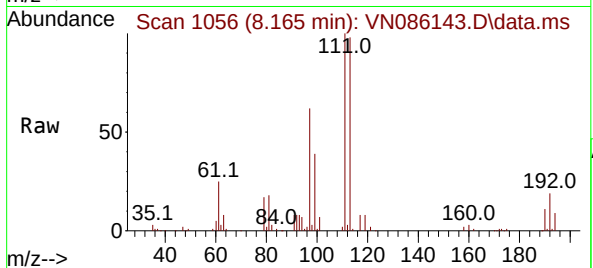
192 19.4 15.9 23.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/31/2025

Supervised By :Mahesh Dadoda 03/31/2025



#36

1,1-Dichloropropene

Concen: 18.956 ug/l

RT: 8.371 min Scan# 1091

Delta R.T. 0.006 min

Lab File: VN086143.D

Acq: 28 Mar 2025 12:07

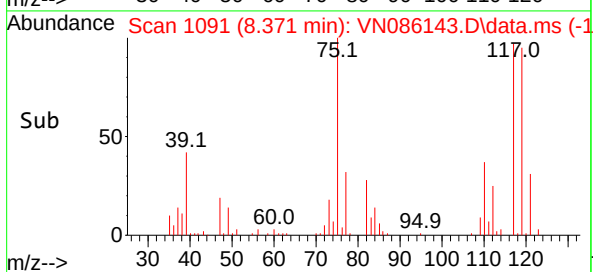
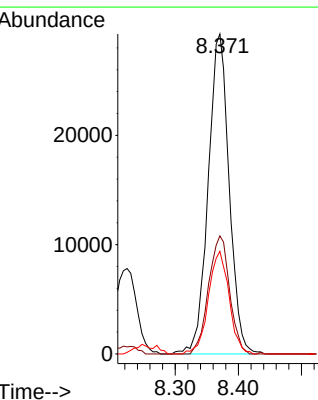
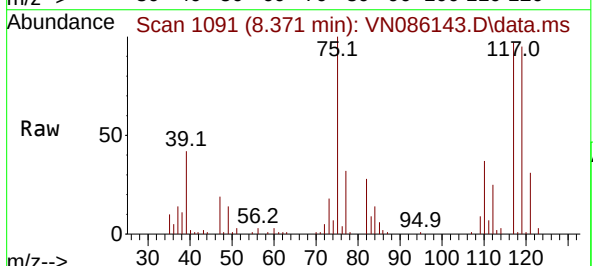
Tgt Ion: 75 Resp: 67485

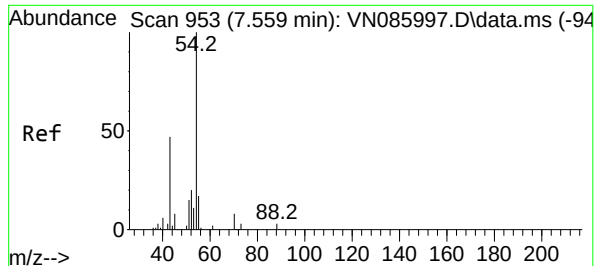
Ion Ratio Lower Upper

75 100

110 37.0 17.8 53.3

77 31.6 25.0 37.4





#37

Ethyl Acetate

Concen: 20.232 ug/l

RT: 7.559 min Scan# 91

Delta R.T. -0.000 min

Lab File: VN086143.D

Acq: 28 Mar 2025 12:07

Instrument :

MSVOA_N

ClientSampleId :

VN0328WBS01

Tgt Ion: 43 Resp: 6076

Ion Ratio Lower Upper

43 100

61 14.9 13.0 19.4

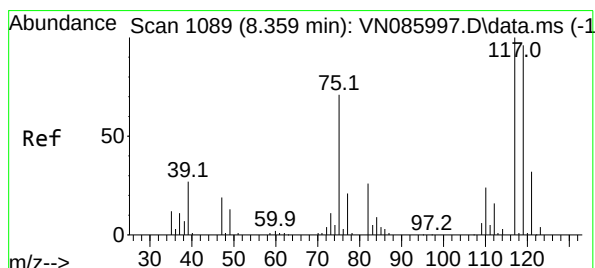
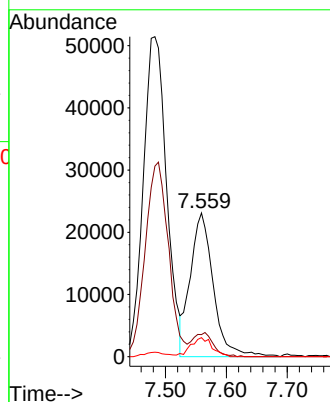
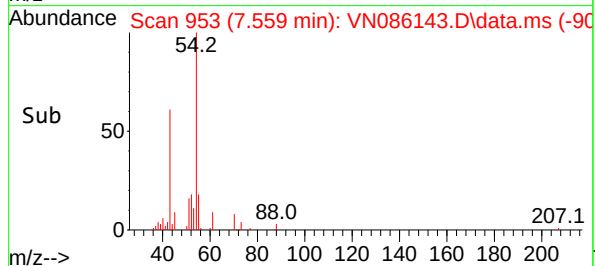
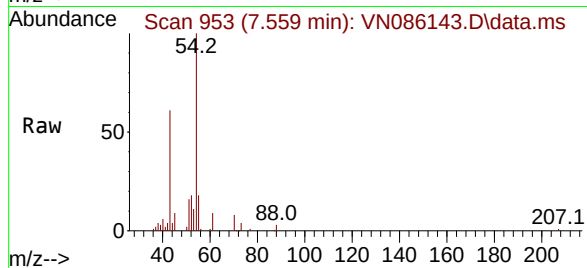
70 12.2 11.0 16.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/31/2025

Supervised By :Mahesh Dadoda 03/31/2025



#38

Carbon Tetrachloride

Concen: 19.068 ug/l

RT: 8.359 min Scan# 1089

Delta R.T. -0.000 min

Lab File: VN086143.D

Acq: 28 Mar 2025 12:07

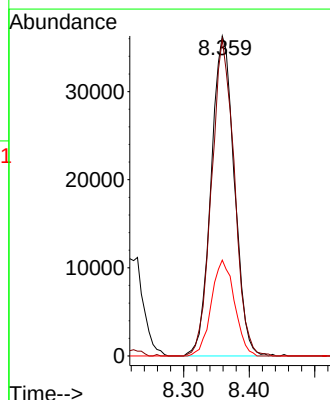
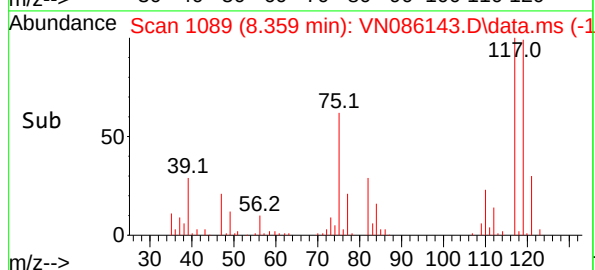
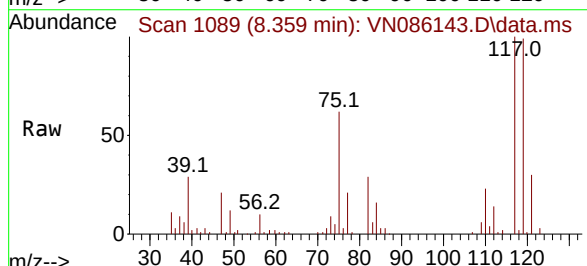
Tgt Ion:117 Resp: 89256

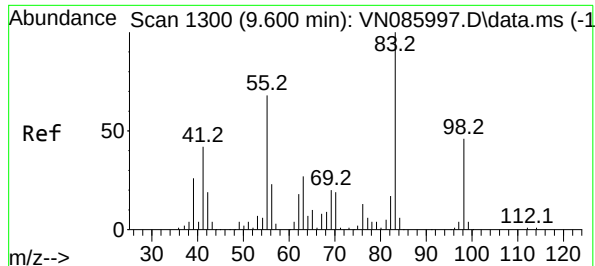
Ion Ratio Lower Upper

117 100

119 99.0 77.0 115.4

121 30.0 25.6 38.4





#39

Methylcyclohexane

Concen: 17.727 ug/l

RT: 9.600 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN086143.D

Acq: 28 Mar 2025 12:07

Instrument :

MSVOA_N

ClientSampleId :

VN0328WBS01

Tgt Ion: 83 Resp: 6261

Ion Ratio Lower Upper

83 100

55 74.0 54.2 81.2

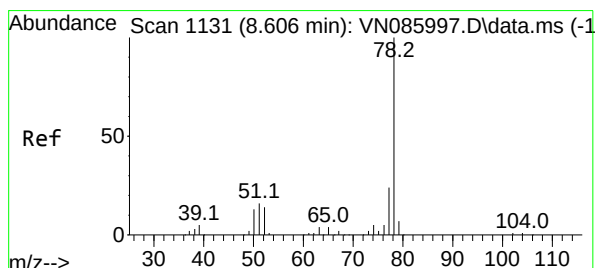
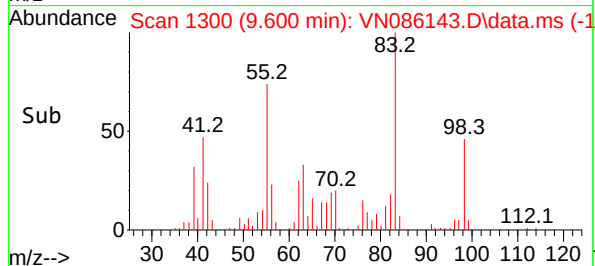
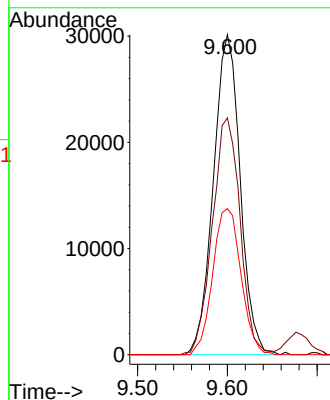
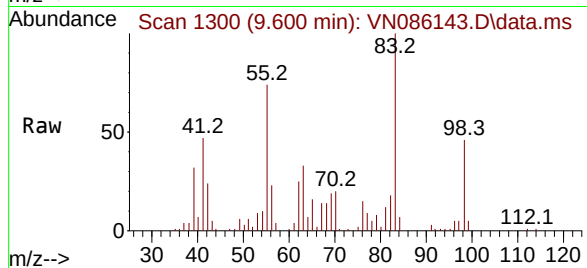
98 45.7 37.1 55.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/31/2025

Supervised By :Mahesh Dadoda 03/31/2025



#40

Benzene

Concen: 20.253 ug/l

RT: 8.606 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VN086143.D

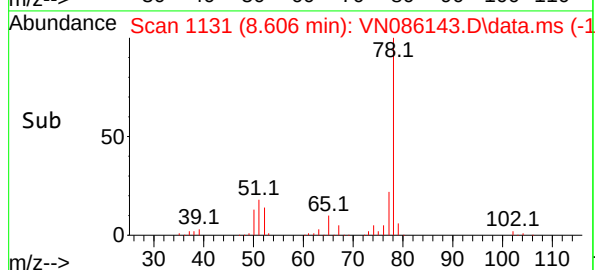
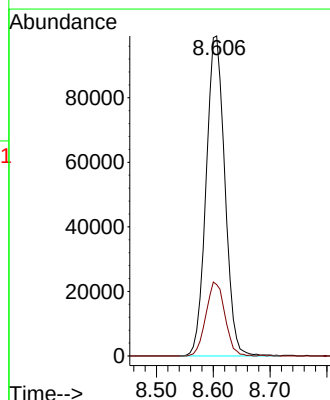
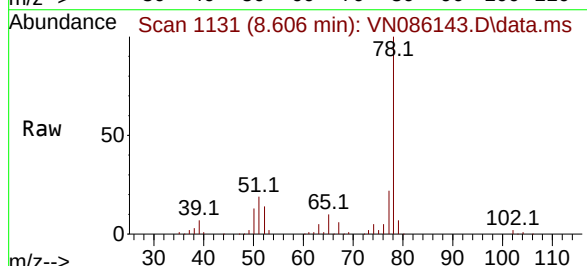
Acq: 28 Mar 2025 12:07

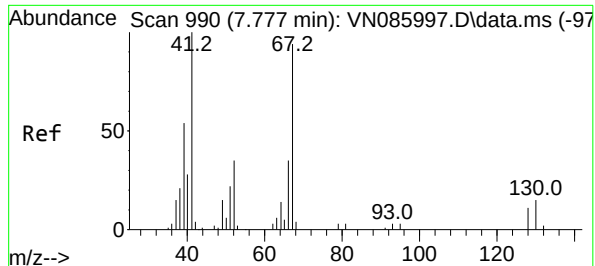
Tgt Ion: 78 Resp: 226337

Ion Ratio Lower Upper

78 100

77 22.3 18.9 28.3





#41

Methacrylonitrile

Concen: 20.164 ug/l

RT: 7.777 min Scan# 990

Delta R.T. -0.000 min

Lab File: VN086143.D

Acq: 28 Mar 2025 12:07

Instrument :

MSVOA_N

ClientSampleId :

VN0328WBS01

Tgt Ion: 41 Resp: 28918

Ion Ratio Lower Upper

41 100

39 51.5 46.2 69.2

67 93.5 75.9 113.9

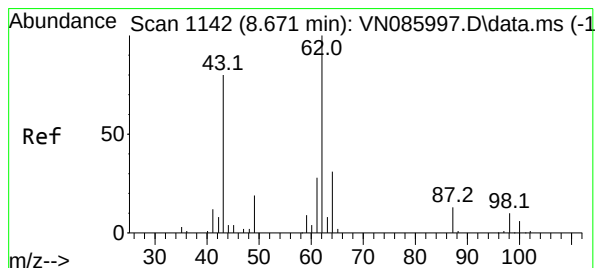
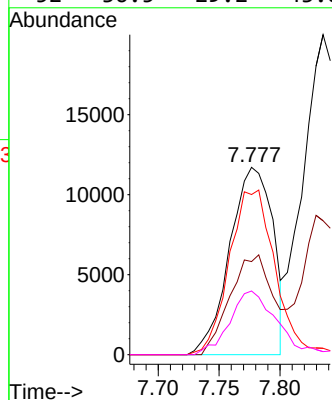
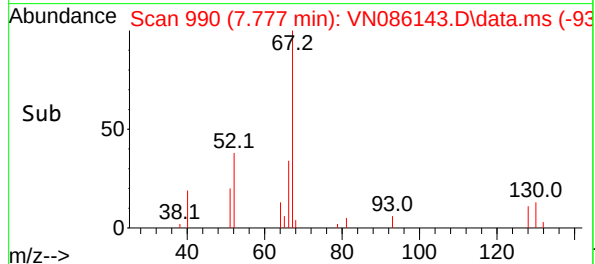
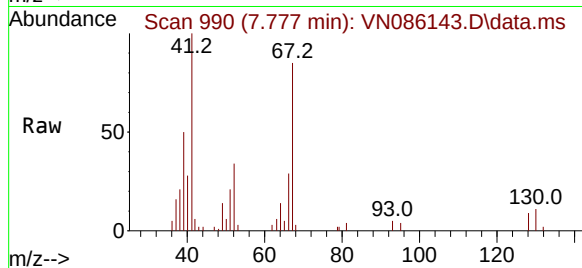
52 36.5 29.2 43.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/31/2025

Supervised By :Mahesh Dadoda 03/31/2025



#42

1,2-Dichloroethane

Concen: 19.037 ug/l

RT: 8.671 min Scan# 1142

Delta R.T. -0.000 min

Lab File: VN086143.D

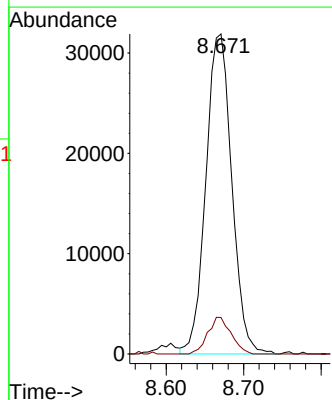
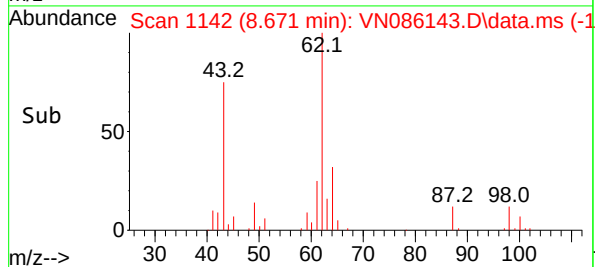
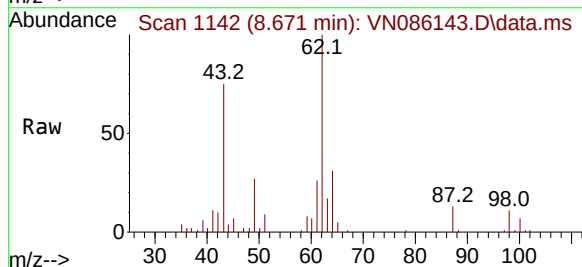
Acq: 28 Mar 2025 12:07

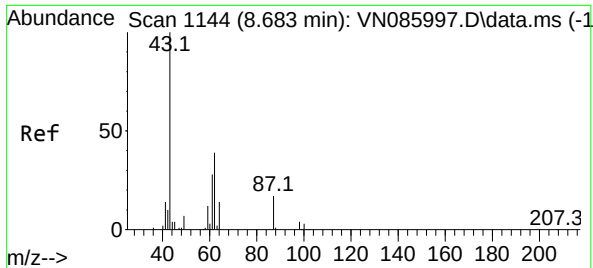
Tgt Ion: 62 Resp: 74133

Ion Ratio Lower Upper

62 100

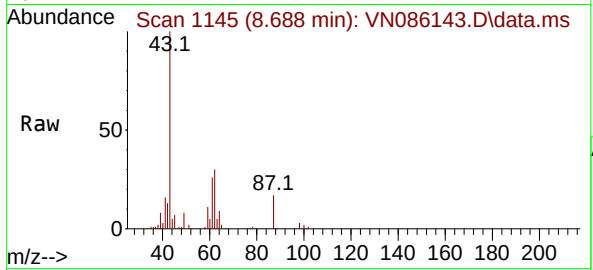
98 10.3 0.0 18.6





#43
Isopropyl Acetate
Concen: 15.469 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.006 min
Lab File: VN086143.D
Acq: 28 Mar 2025 12:07

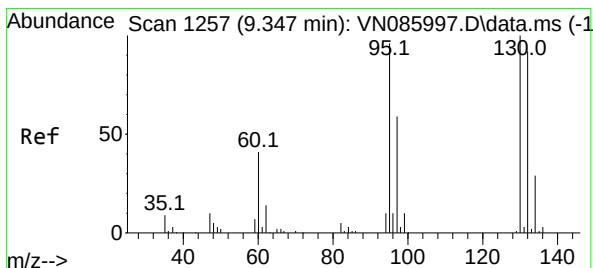
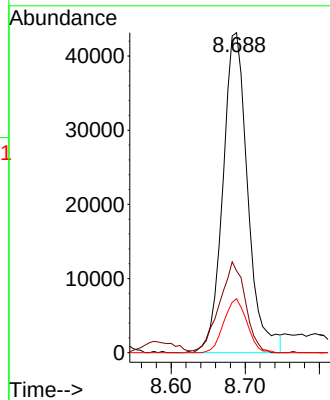
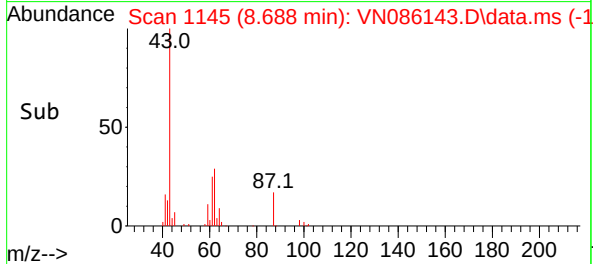
Instrument :
MSVOA_N
ClientSampleId :
VN0328WBS01



Tgt Ion: 43 Resp: 100670
Ion Ratio Lower Upper
43 100
61 29.6 25.0 37.6
87 15.6 13.0 19.4

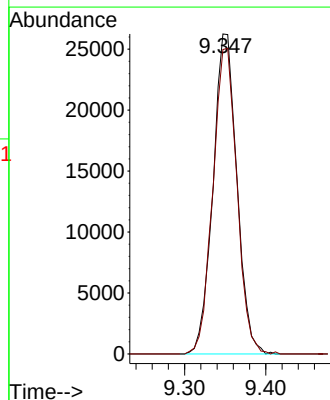
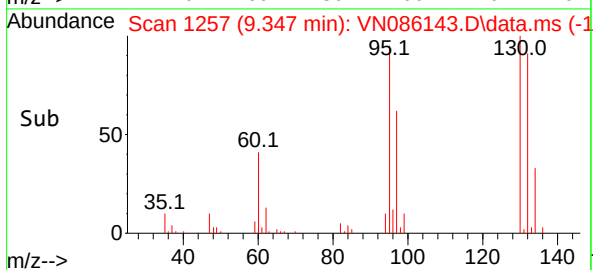
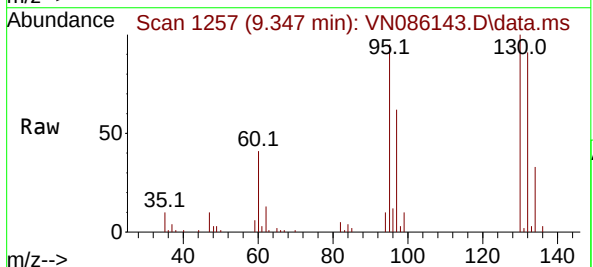
Manual Integrations
APPROVED

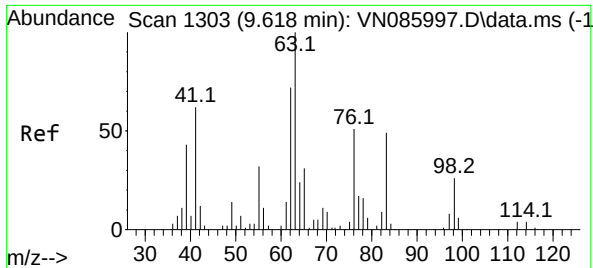
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#44
Trichloroethene
Concen: 18.541 ug/l
RT: 9.347 min Scan# 1257
Delta R.T. -0.000 min
Lab File: VN086143.D
Acq: 28 Mar 2025 12:07

Tgt Ion:130 Resp: 53703
Ion Ratio Lower Upper
130 100
95 95.2 0.0 191.6





#45

1,2-Dichloropropane

Concen: 21.199 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. -0.000 min

Lab File: VN086143.D

Acq: 28 Mar 2025 12:07

Instrument :

MSVOA_N

ClientSampleId :

VN0328WBS01

Tgt Ion: 63 Resp: 5388

Ion Ratio Lower Upper

63 100

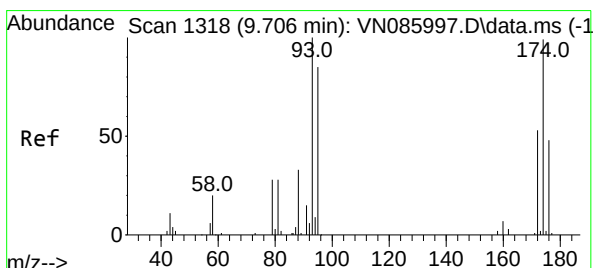
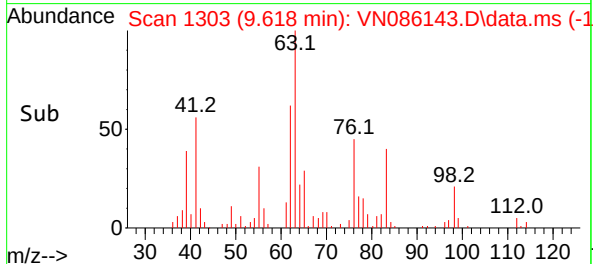
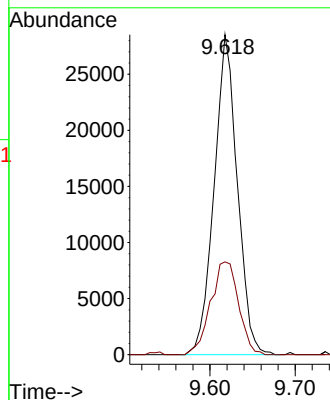
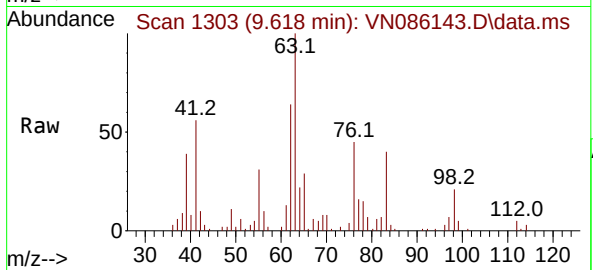
65 29.0 24.7 37.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/31/2025

Supervised By :Mahesh Dadoda 03/31/2025



#46

Dibromomethane

Concen: 19.836 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. -0.000 min

Lab File: VN086143.D

Acq: 28 Mar 2025 12:07

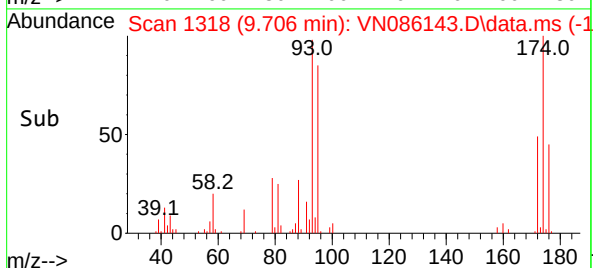
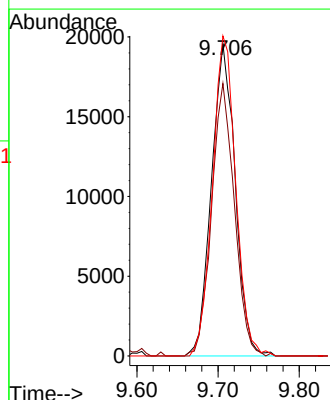
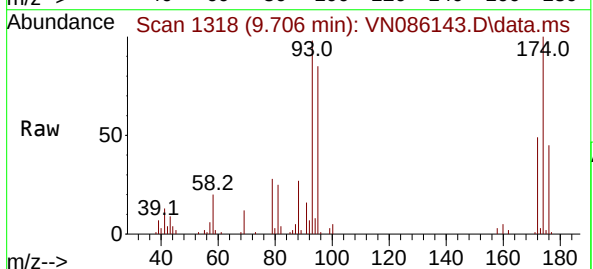
Tgt Ion: 93 Resp: 39653

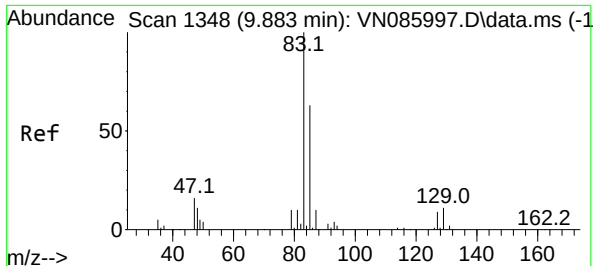
Ion Ratio Lower Upper

93 100

95 84.3 66.2 99.2

174 100.8 80.1 120.1





#47

Bromodichloromethane

Concen: 20.126 ug/l

RT: 9.882 min Scan# 1348

Delta R.T. -0.000 min

Lab File: VN086143.D

Acq: 28 Mar 2025 12:07

Instrument :

MSVOA_N

ClientSampleId :

VN0328WBS01

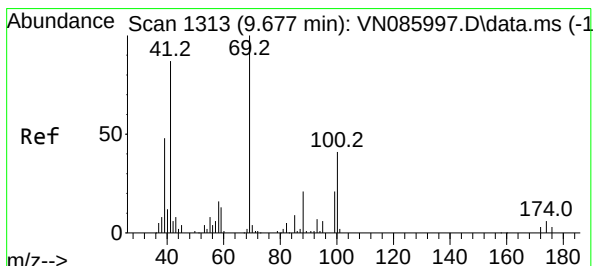
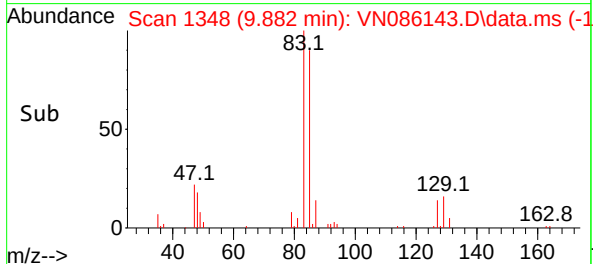
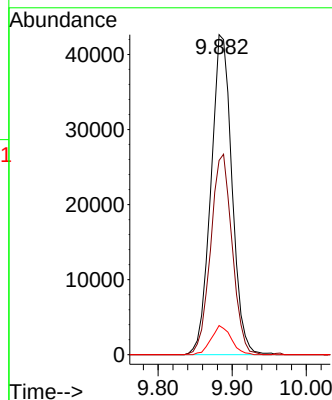
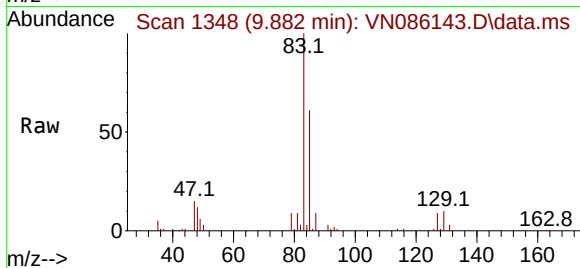
Tgt Ion:	83	Resp:	8408
Ion	Ratio	Lower	Upper
83	100		
85	60.7	50.2	75.2
127	9.1	7.1	10.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/31/2025

Supervised By :Mahesh Dadoda 03/31/2025



#48

Methyl methacrylate

Concen: 20.280 ug/l

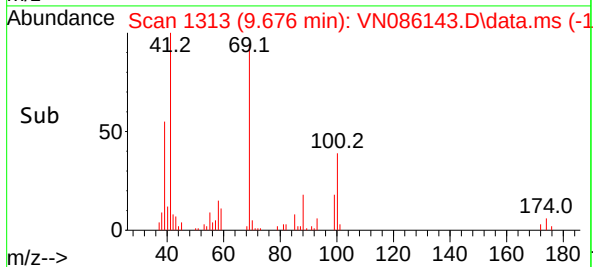
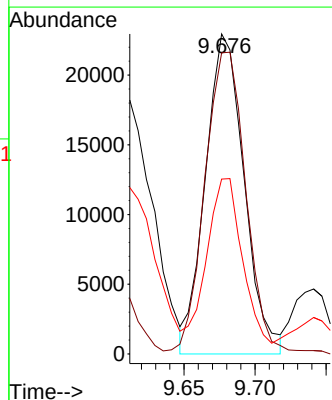
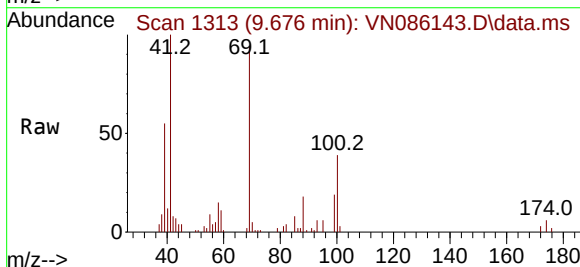
RT: 9.676 min Scan# 1313

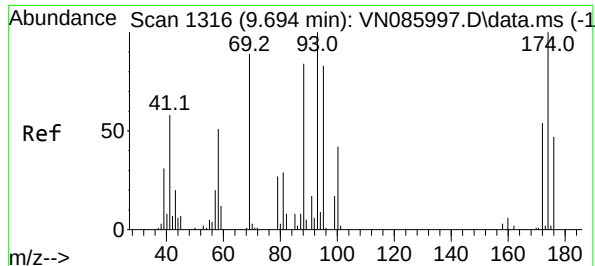
Delta R.T. -0.000 min

Lab File: VN086143.D

Acq: 28 Mar 2025 12:07

Tgt Ion:	41	Resp:	43554
Ion	Ratio	Lower	Upper
41	100		
69	100.3	83.1	124.7
39	52.8	45.6	68.4





#49

1,4-Dioxane

Concen: 398.591 ug/l

RT: 9.694 min Scan# 1316

Delta R.T. -0.000 min

Lab File: VN086143.D

Acq: 28 Mar 2025 12:07

Instrument :

MSVOA_N

ClientSampleId :

VN0328WBS01

Tgt Ion: 88 Resp: 20230

Ion Ratio Lower Upper

88 100

43 25.5 21.7 32.5

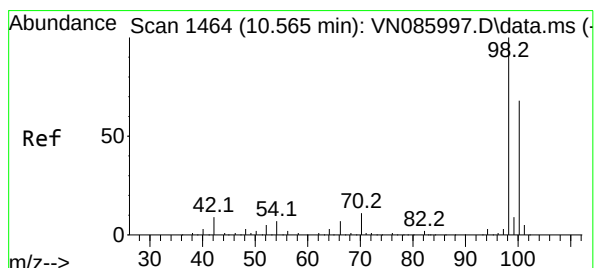
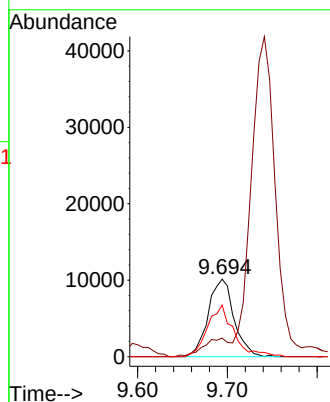
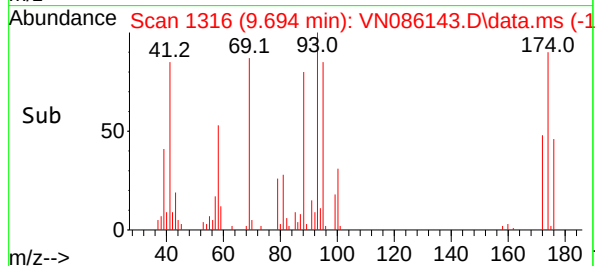
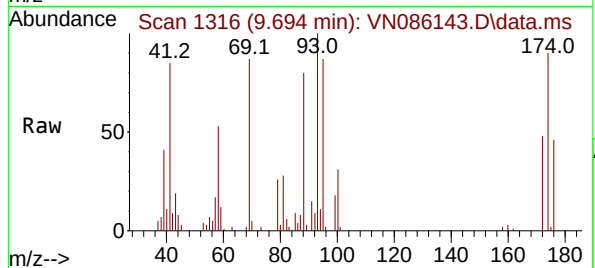
58 68.0 50.4 75.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/31/2025

Supervised By :Mahesh Dadoda 03/31/2025



#50

Toluene-d8

Concen: 54.793 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN086143.D

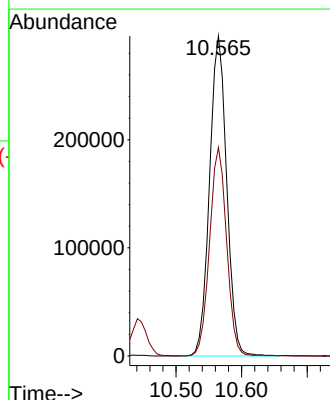
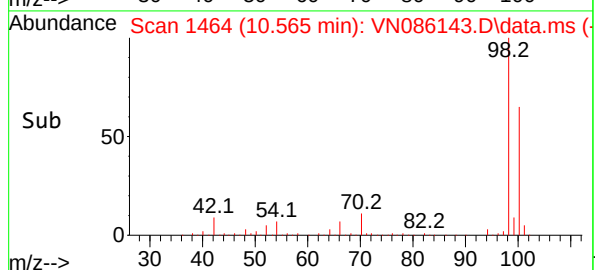
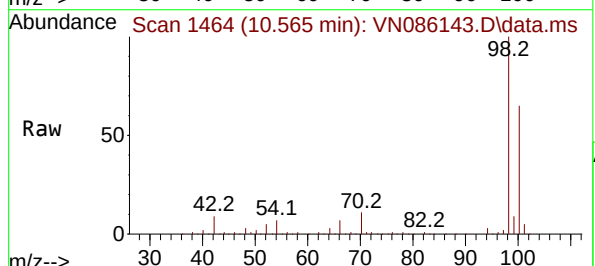
Acq: 28 Mar 2025 12:07

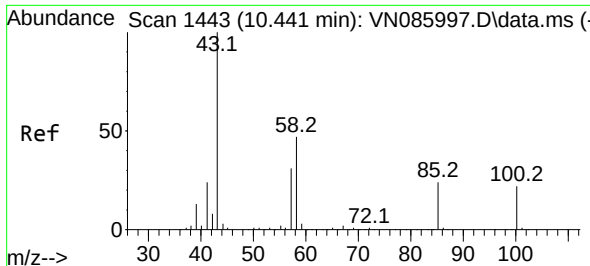
Tgt Ion: 98 Resp: 537648

Ion Ratio Lower Upper

98 100

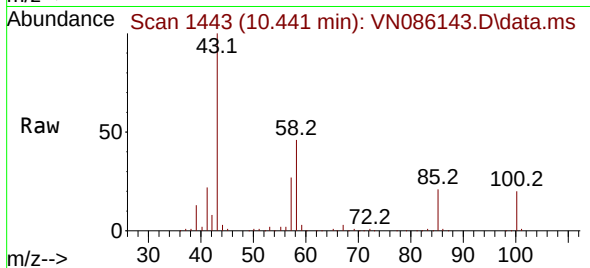
100 64.8 53.1 79.7





#51
4-Methyl-2-Pentanone
Concen: 104.642 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN086143.D
Acq: 28 Mar 2025 12:07

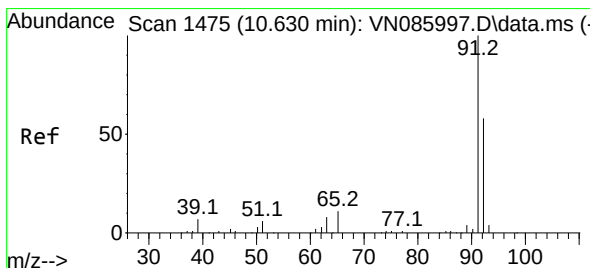
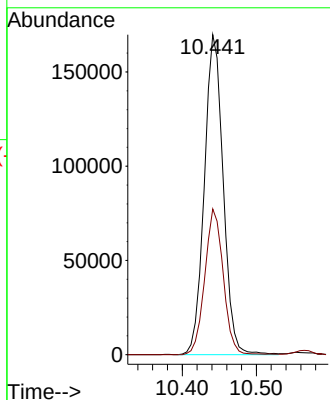
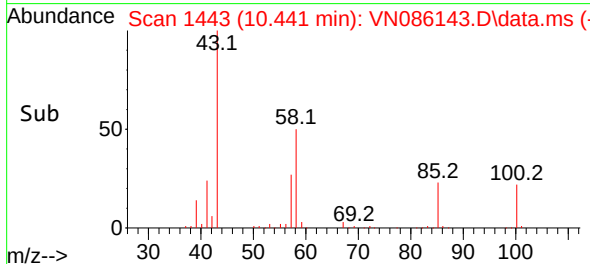
Instrument :
MSVOA_N
ClientSampleId :
VN0328WBS01



Tgt Ion: 43 Resp: 30034
Ion Ratio Lower Upper
43 100
58 44.5 37.4 56.0

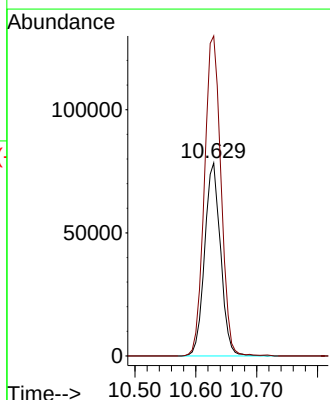
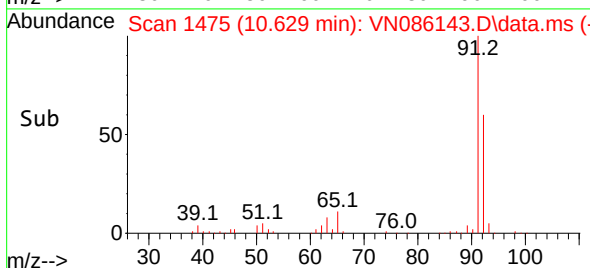
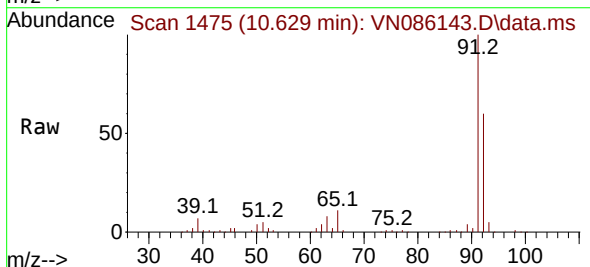
Manual Integrations
APPROVED

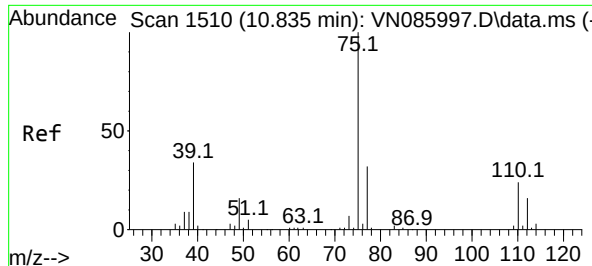
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#52
Toluene
Concen: 20.756 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN086143.D
Acq: 28 Mar 2025 12:07

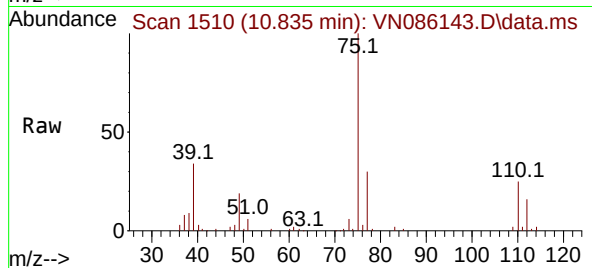
Tgt Ion: 92 Resp: 142366
Ion Ratio Lower Upper
92 100
91 172.4 136.2 204.4





#53
t-1,3-Dichloropropene
Concen: 19.108 ug/l
RT: 10.835 min Scan# 1510
Delta R.T. -0.000 min
Lab File: VN086143.D
Acq: 28 Mar 2025 12:07

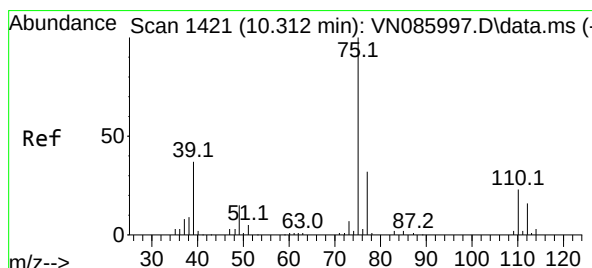
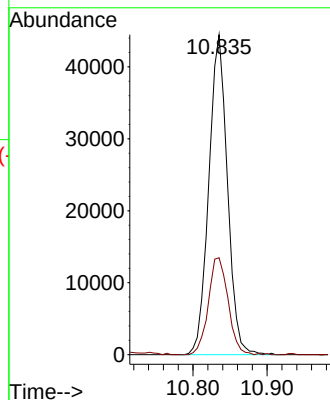
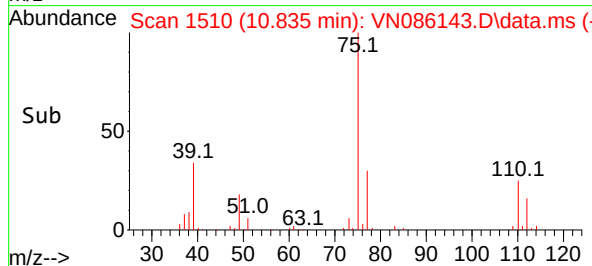
Instrument :
MSVOA_N
ClientSampleId :
VN0328WBS01



Tgt Ion: 75 Resp: 77520
Ion Ratio Lower Upper
75 100
77 30.3 25.3 37.9

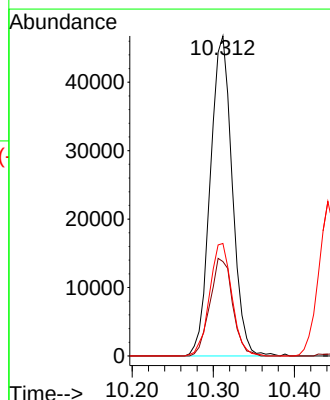
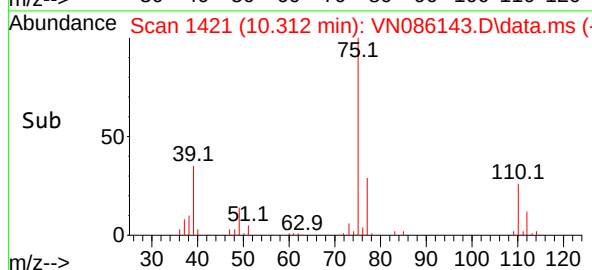
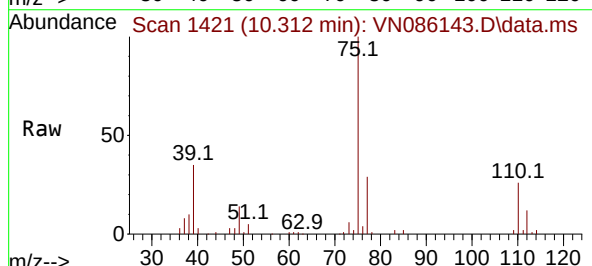
Manual Integrations
APPROVED

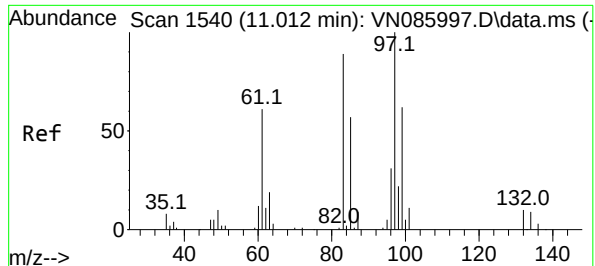
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#54
cis-1,3-Dichloropropene
Concen: 20.497 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. -0.000 min
Lab File: VN086143.D
Acq: 28 Mar 2025 12:07

Tgt Ion: 75 Resp: 87743
Ion Ratio Lower Upper
75 100
77 29.5 25.3 37.9
39 35.2 29.6 44.4





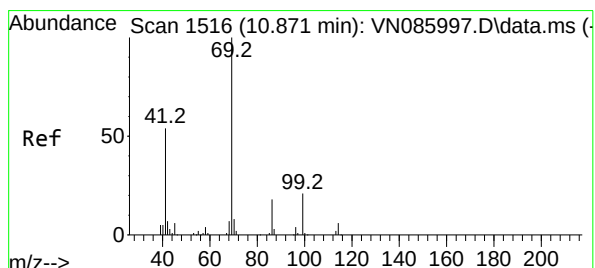
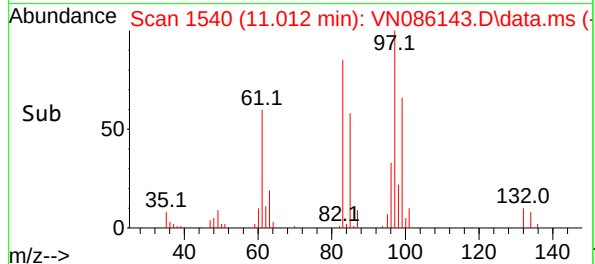
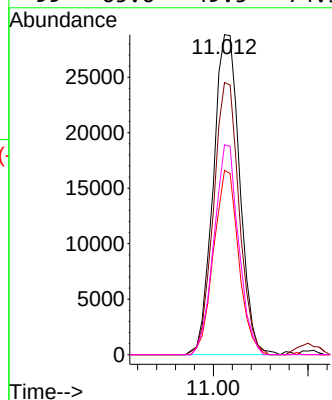
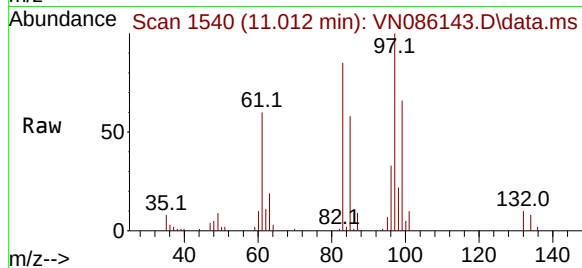
#55
1,1,2-Trichloroethane
Concen: 21.369 ug/l
RT: 11.012 min Scan# 1540
Delta R.T. -0.000 min
Lab File: VN086143.D
Acq: 28 Mar 2025 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0328WBS01

Tgt Ion	Ratio	Lower	Upper
97	100		
83	85.0	71.2	106.8
85	57.6	45.4	68.0
99	65.6	49.5	74.3

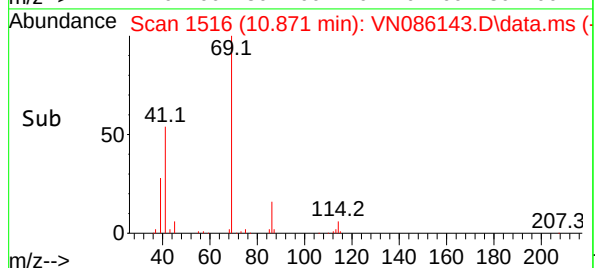
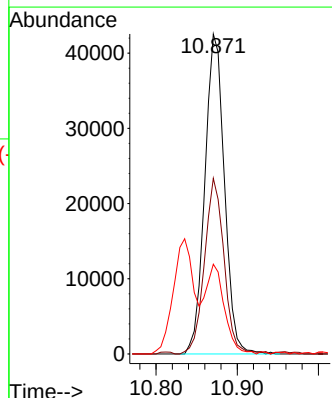
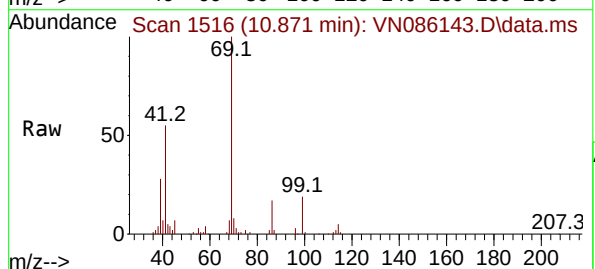
Manual Integrations
APPROVED

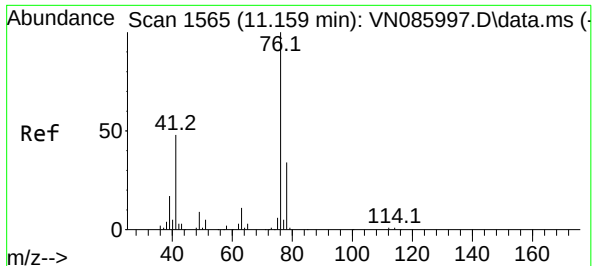
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#56
Ethyl methacrylate
Concen: 19.930 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VN086143.D
Acq: 28 Mar 2025 12:07

Tgt Ion	Ratio	Lower	Upper
69	100		
41	54.9	41.6	62.4
39	27.3	21.8	32.8





#57

1,3-Dichloropropane

Concen: 19.886 ug/l

RT: 11.159 min Scan# 1565

Delta R.T. -0.000 min

Lab File: VN086143.D

Acq: 28 Mar 2025 12:07

Instrument :

MSVOA_N

ClientSampleId :

VN0328WBS01

Tgt Ion: 76 Resp: 8842

Ion Ratio Lower Upper

76 100

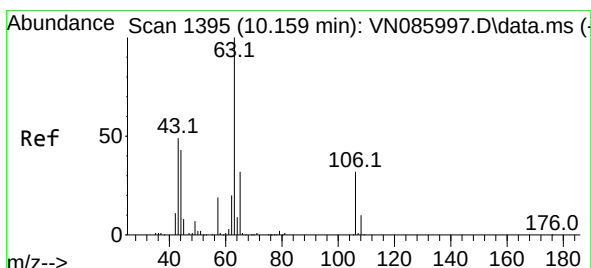
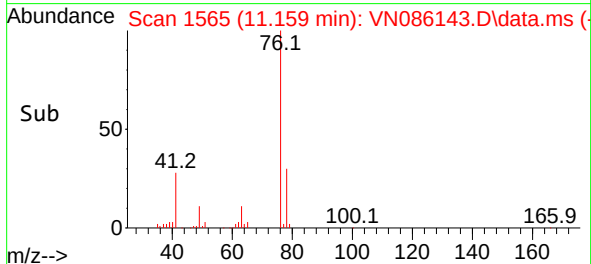
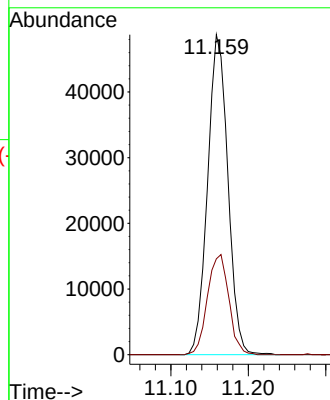
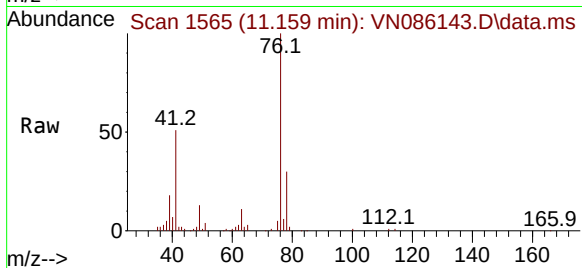
78 32.9 25.8 38.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/31/2025

Supervised By :Mahesh Dadoda 03/31/2025



#58

2-Chloroethyl Vinyl ether

Concen: 108.017 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. -0.000 min

Lab File: VN086143.D

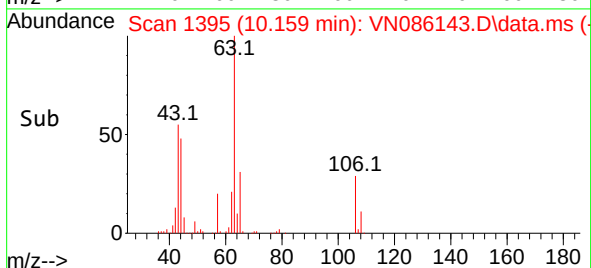
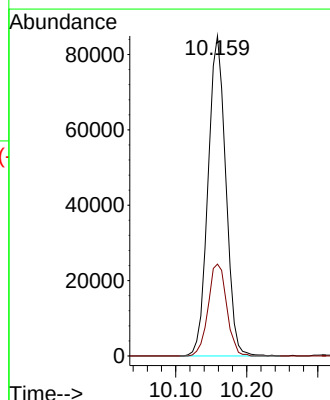
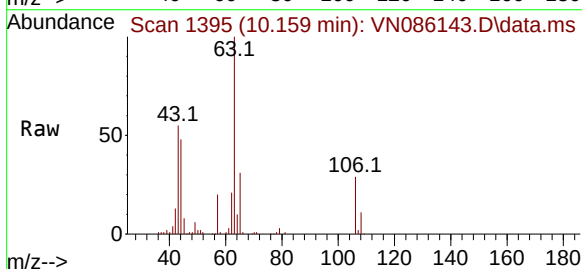
Acq: 28 Mar 2025 12:07

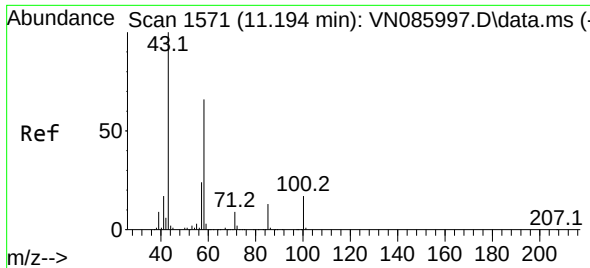
Tgt Ion: 63 Resp: 147179

Ion Ratio Lower Upper

63 100

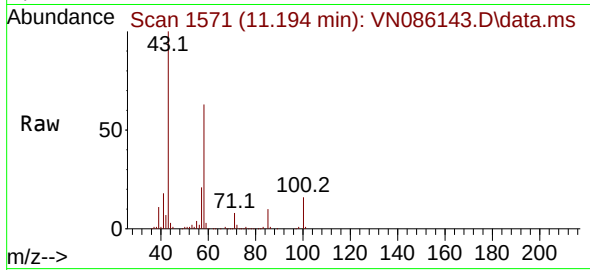
106 30.0 25.0 37.6





#59
2-Hexanone
Concen: 101.686 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. -0.000 min
Lab File: VN086143.D
Acq: 28 Mar 2025 12:07

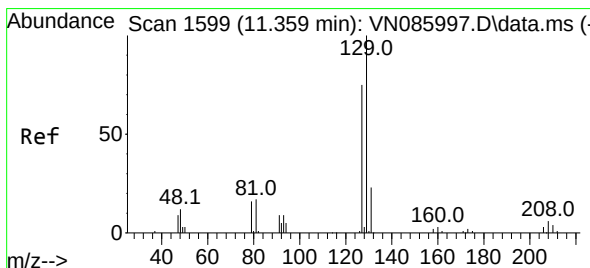
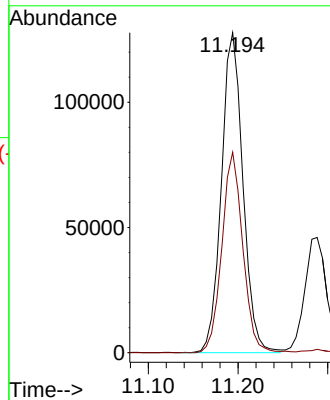
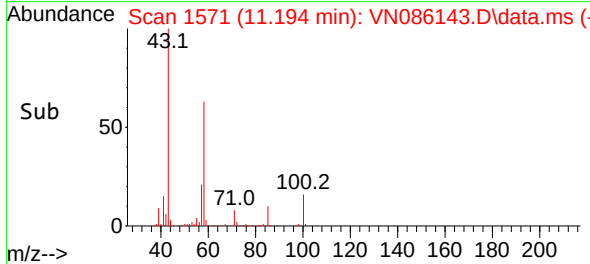
Instrument :
MSVOA_N
ClientSampleId :
VN0328WBS01



Tgt Ion: 43 Resp: 21262
Ion Ratio Lower Upper
43 100
58 61.0 32.4 97.2

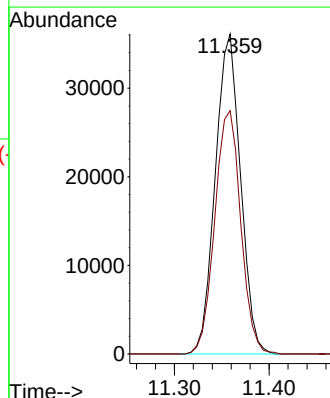
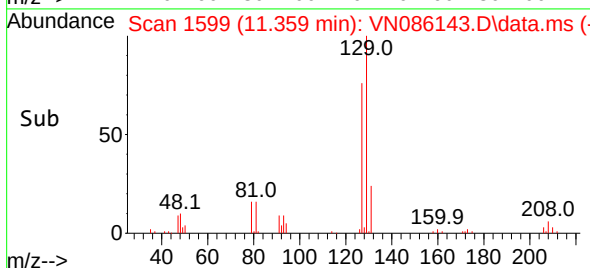
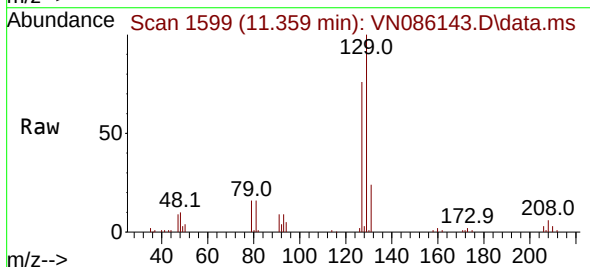
Manual Integrations
APPROVED

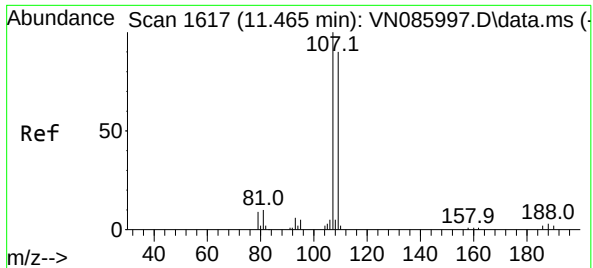
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#60
Dibromochloromethane
Concen: 19.822 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VN086143.D
Acq: 28 Mar 2025 12:07

Tgt Ion:129 Resp: 66962
Ion Ratio Lower Upper
129 100
127 78.1 37.8 113.4





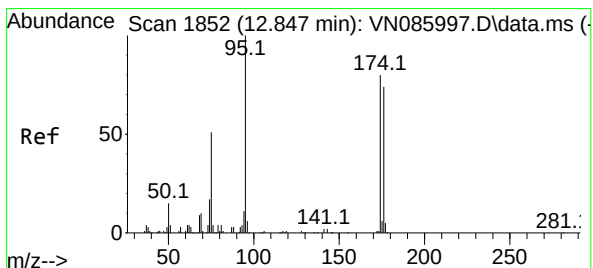
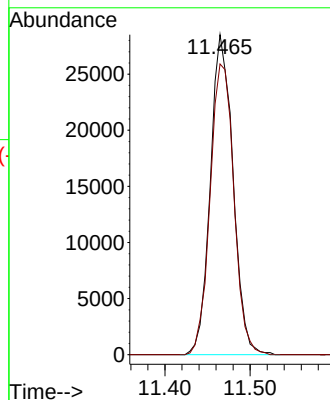
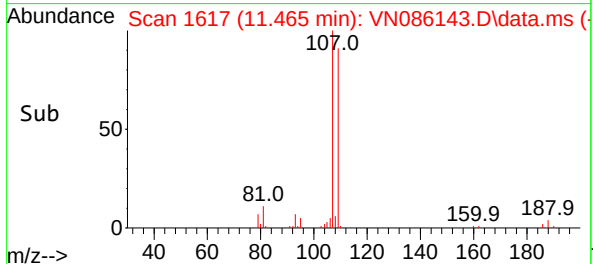
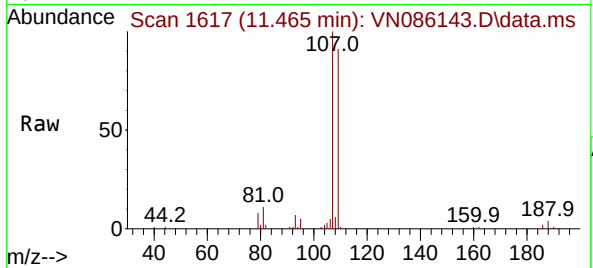
#61
1,2-Dibromoethane
Concen: 19.602 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VN086143.D
Acq: 28 Mar 2025 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0328WBS01

Tgt Ion:107 Resp: 5268
Ion Ratio Lower Upper
107 100
109 95.1 73.3 109.9

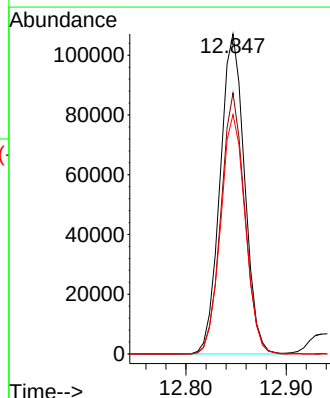
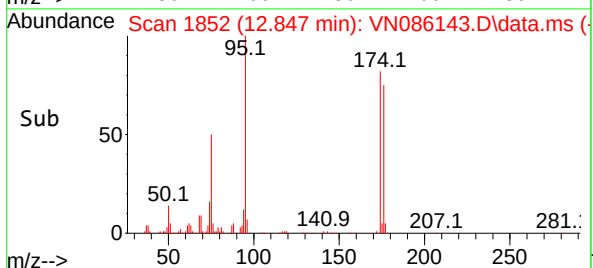
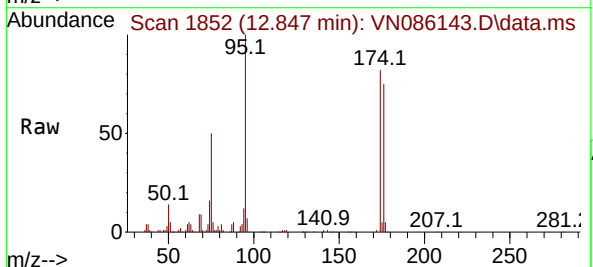
Manual Integrations
APPROVED

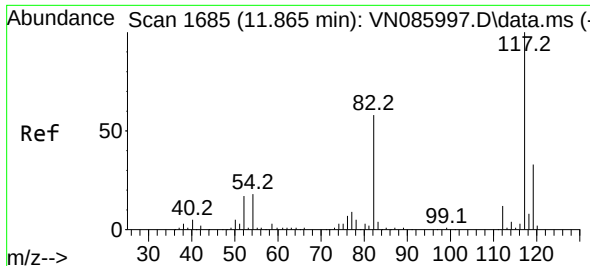
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#62
4-Bromofluorobenzene
Concen: 51.739 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086143.D
Acq: 28 Mar 2025 12:07

Tgt Ion: 95 Resp: 181055
Ion Ratio Lower Upper
95 100
174 79.3 0.0 156.8
176 75.3 0.0 152.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086143.D

Acq: 28 Mar 2025 12:07

Instrument :

MSVOA_N

ClientSampleId :

VN0328WBS01

Tgt Ion:117 Resp: 34734

Ion Ratio Lower Upper

117 100

82 57.3 46.7 70.1

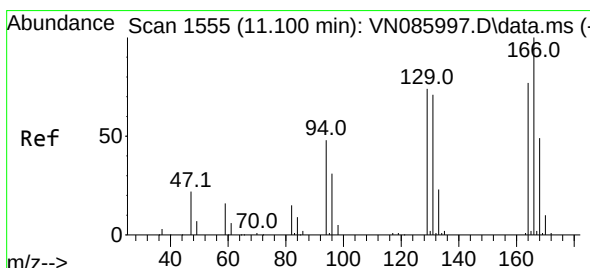
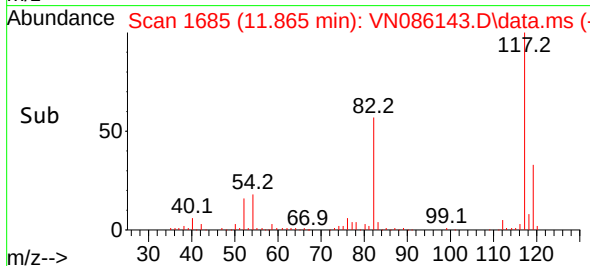
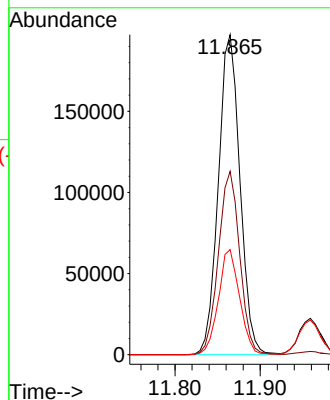
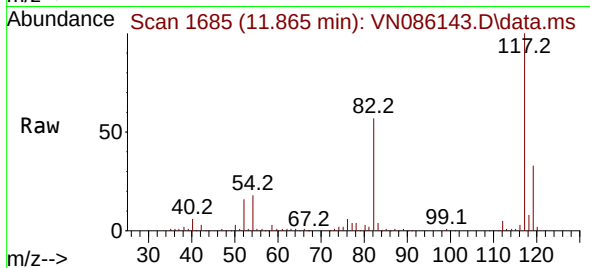
119 32.8 26.5 39.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/31/2025

Supervised By :Mahesh Dadoda 03/31/2025



#64

Tetrachloroethene

Concen: 20.177 ug/l

RT: 11.100 min Scan# 1555

Delta R.T. -0.000 min

Lab File: VN086143.D

Acq: 28 Mar 2025 12:07

Tgt Ion:164 Resp: 55906

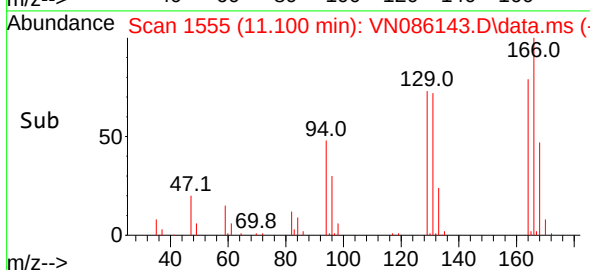
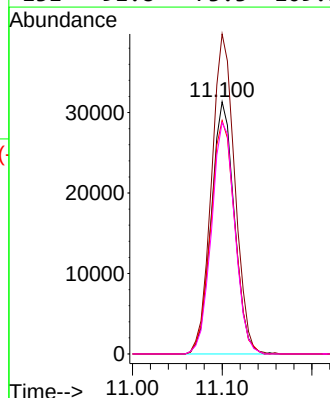
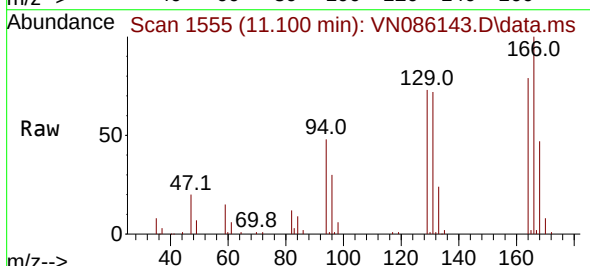
Ion Ratio Lower Upper

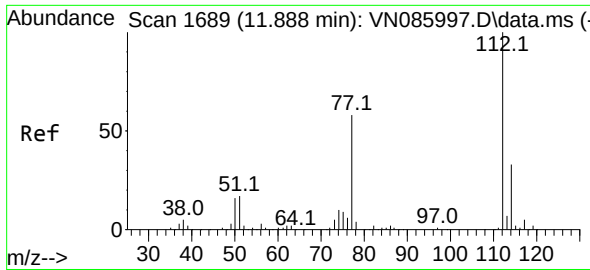
164 100

166 126.9 103.7 155.5

129 92.6 77.1 115.7

131 91.8 73.3 109.9





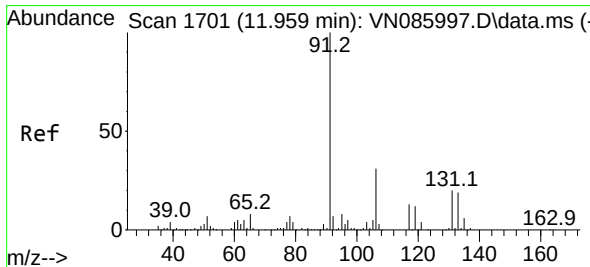
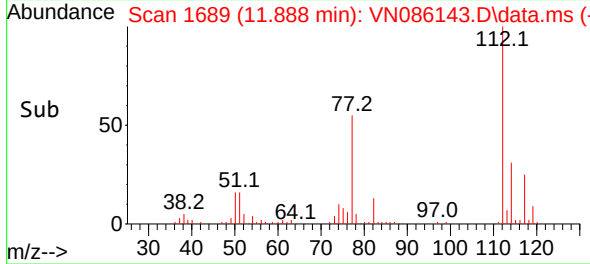
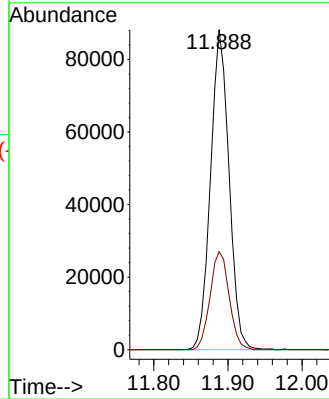
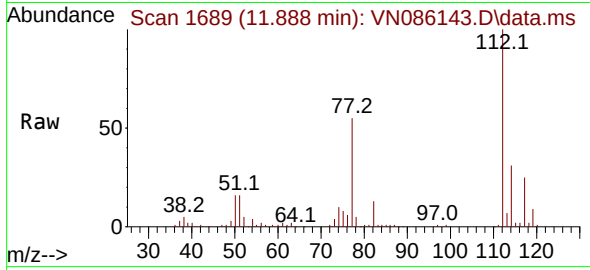
#65
Chlorobenzene
Concen: 19.220 ug/l
RT: 11.888 min Scan# 110
Delta R.T. -0.000 min
Lab File: VN086143.D
Acq: 28 Mar 2025 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0328WBS01

Tgt Ion:112 Resp: 15276
Ion Ratio Lower Upper
112 100
114 30.6 26.3 39.5

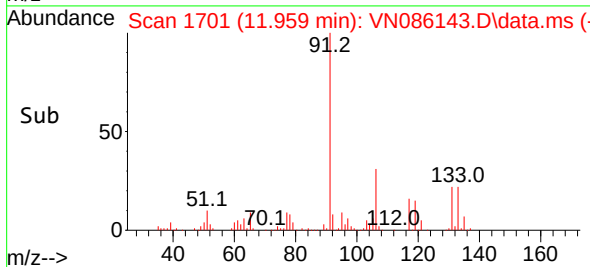
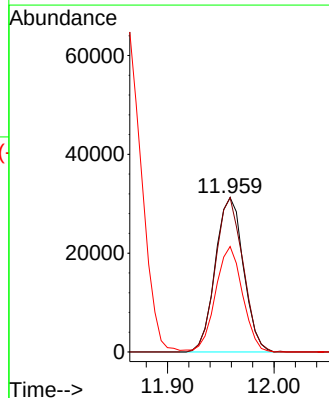
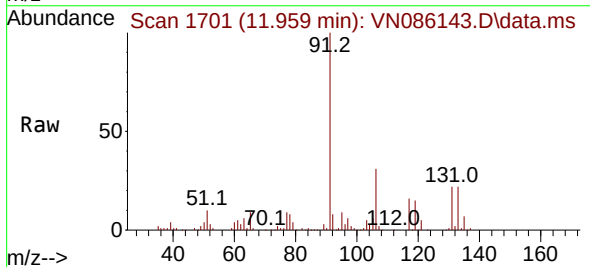
Manual Integrations
APPROVED

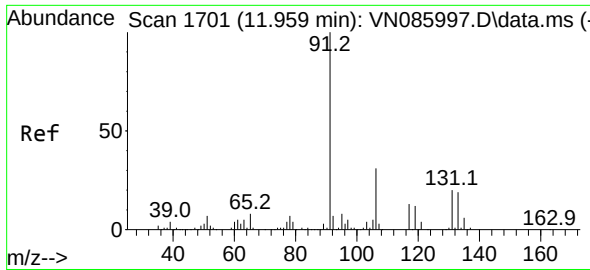
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 19.433 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN086143.D
Acq: 28 Mar 2025 12:07

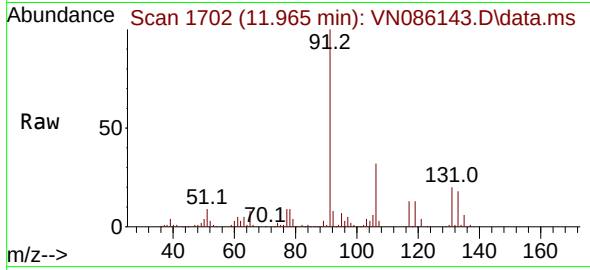
Tgt Ion:131 Resp: 57418
Ion Ratio Lower Upper
131 100
133 98.2 47.0 141.0
119 65.8 31.4 94.0





#67
Ethyl Benzene
Concen: 19.481 ug/l
RT: 11.965 min Scan# 1701
Delta R.T. 0.006 min
Lab File: VN086143.D
Acq: 28 Mar 2025 12:07

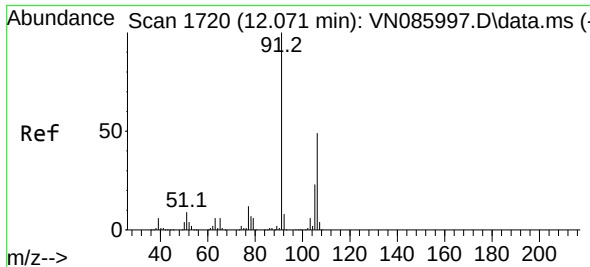
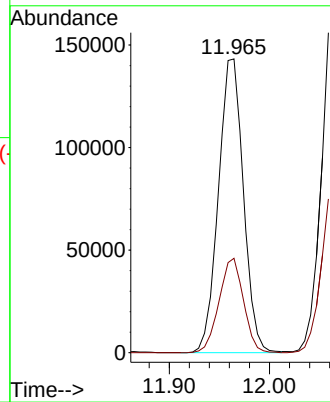
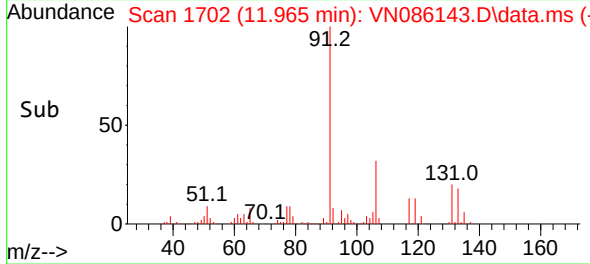
Instrument :
MSVOA_N
ClientSampleId :
VN0328WBS01



Tgt Ion: 91 Resp: 24767
Ion Ratio Lower Upper
91 100
106 32.2 24.5 36.7

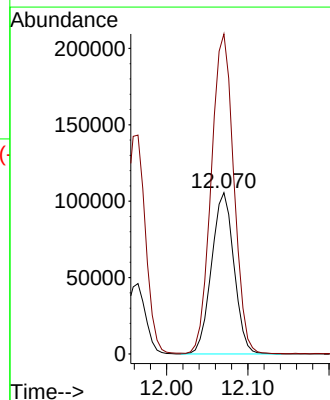
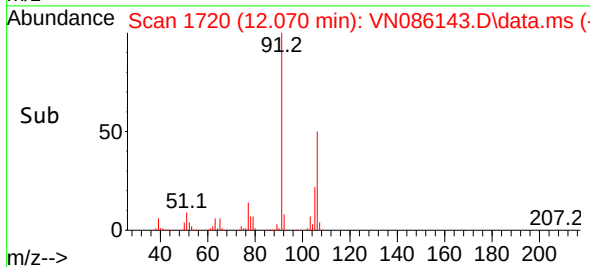
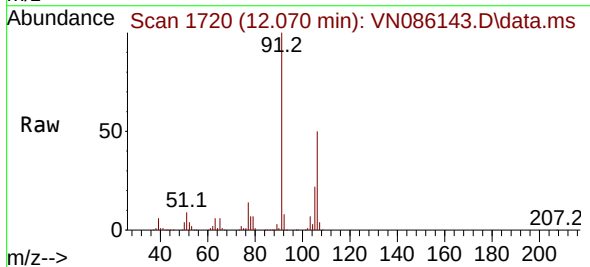
Manual Integrations
APPROVED

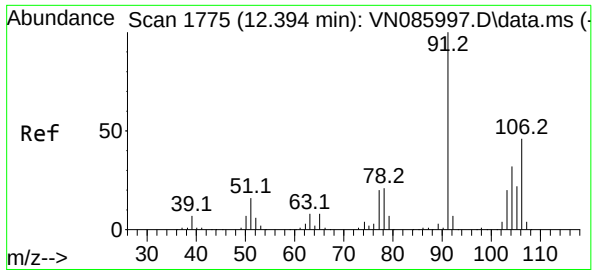
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#68
m/p-Xylenes
Concen: 40.568 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN086143.D
Acq: 28 Mar 2025 12:07

Tgt Ion:106 Resp: 202723
Ion Ratio Lower Upper
106 100
91 199.1 163.9 245.9





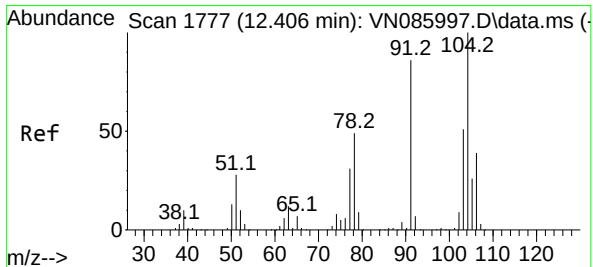
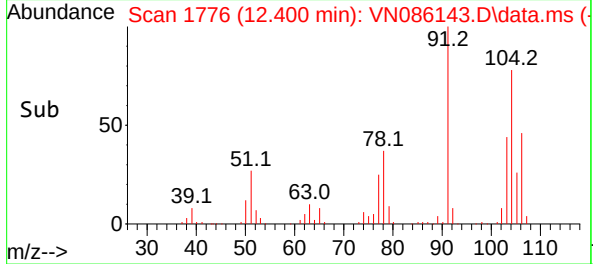
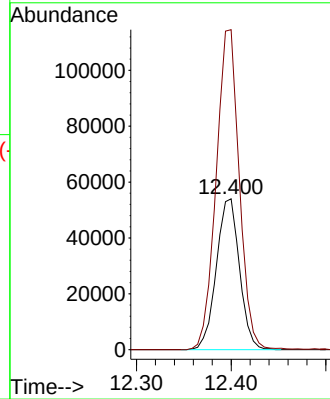
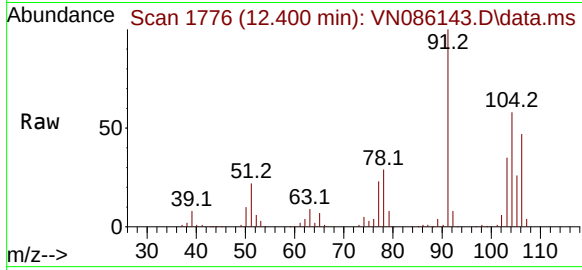
#69
o-Xylene
Concen: 19.994 ug/l
RT: 12.400 min Scan# 1776
Delta R.T. 0.006 min
Lab File: VN086143.D
Acq: 28 Mar 2025 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0328WBS01

Tgt Ion:106 Resp: 9170
Ion Ratio Lower Upper
106 100
91 212.6 109.1 327.2

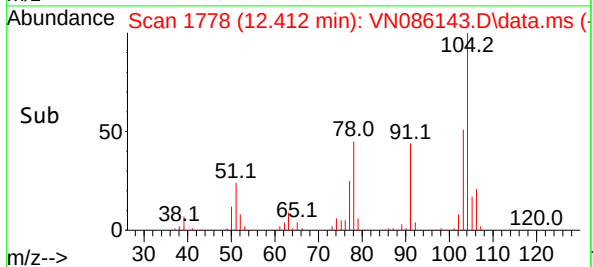
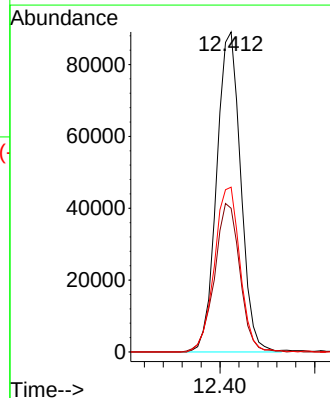
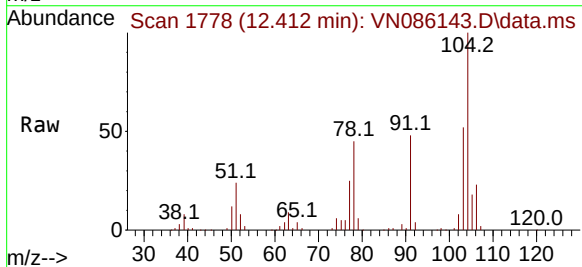
Manual Integrations
APPROVED

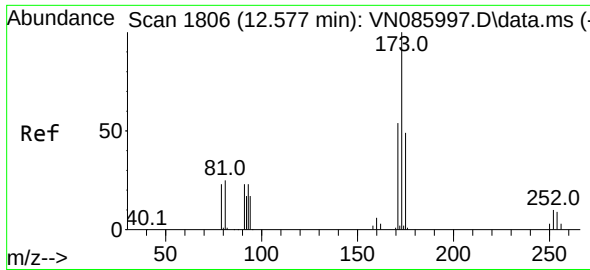
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#70
Styrene
Concen: 20.038 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. 0.006 min
Lab File: VN086143.D
Acq: 28 Mar 2025 12:07

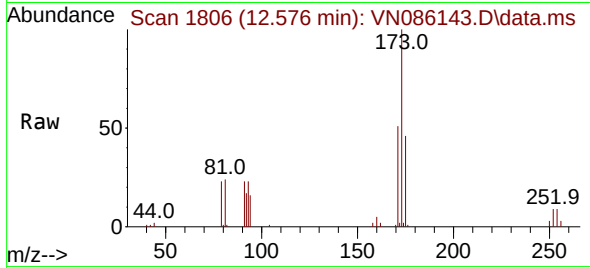
Tgt Ion:104 Resp: 156977
Ion Ratio Lower Upper
104 100
78 48.9 41.4 62.2
103 54.9 42.9 64.3





#71
Bromoform
Concen: 18.755 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. -0.000 min
Lab File: VN086143.D
Acq: 28 Mar 2025 12:07

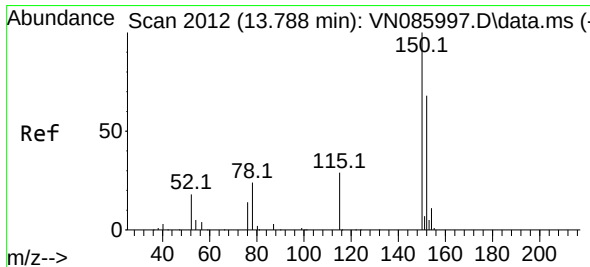
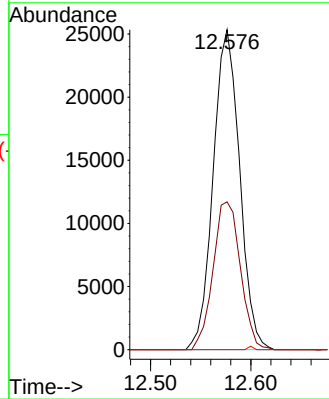
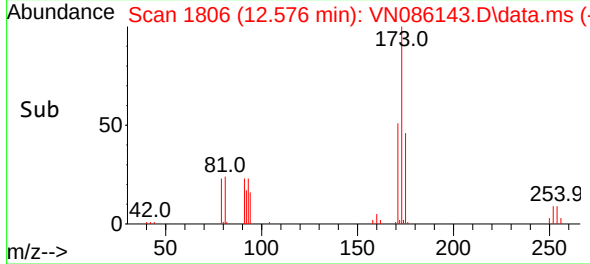
Instrument :
MSVOA_N
ClientSampleId :
VN0328WBS01



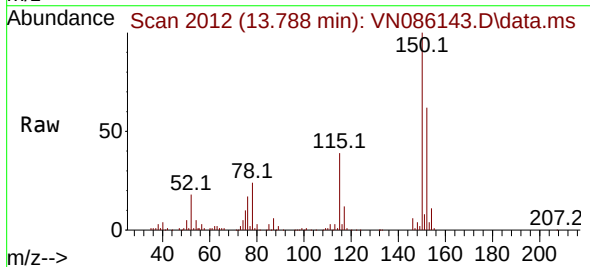
Tgt Ion:173 Resp: 46324
Ion Ratio Lower Upper
173 100
175 47.8 24.3 73.0
254 0.0 0.0 0.0

Manual Integrations
APPROVED

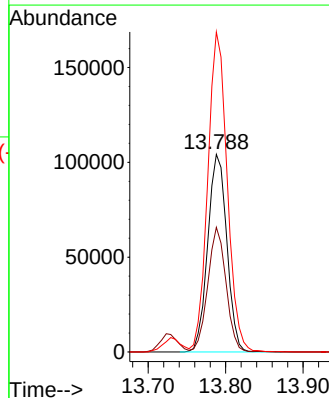
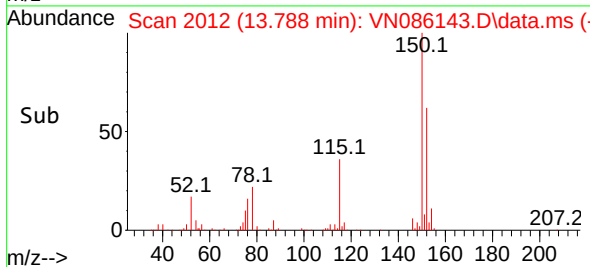
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025

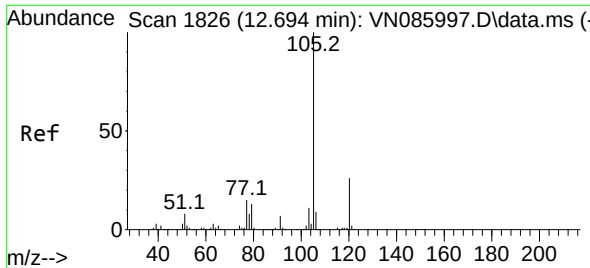


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN086143.D
Acq: 28 Mar 2025 12:07



Tgt Ion:152 Resp: 178334
Ion Ratio Lower Upper
152 100
115 59.7 31.1 93.2
150 164.7 0.0 359.6





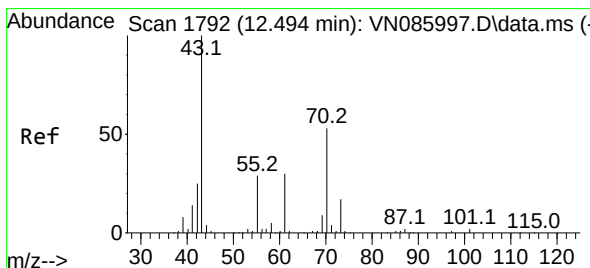
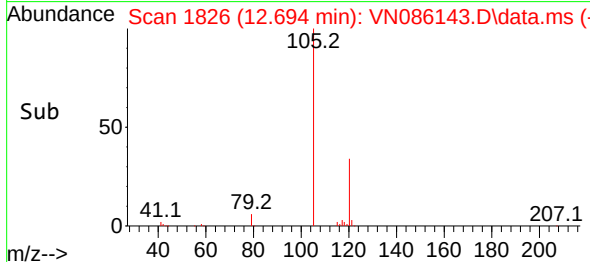
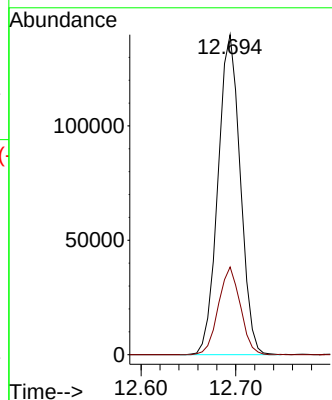
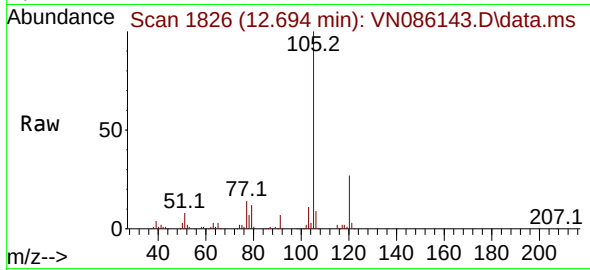
#73
Isopropylbenzene
Concen: 18.803 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. -0.000 min
Lab File: VN086143.D
Acq: 28 Mar 2025 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0328WBS01

Tgt Ion: 105 Resp: 22898
Ion Ratio Lower Upper
105 100
120 26.9 13.0 39.0

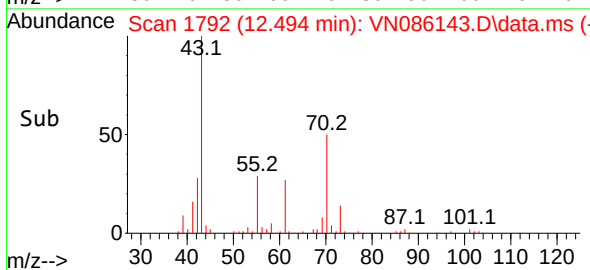
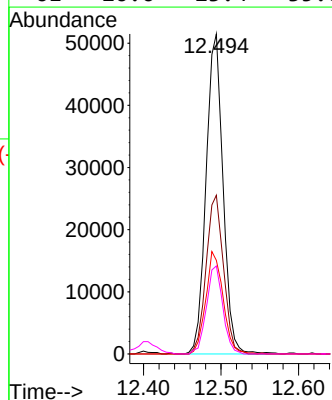
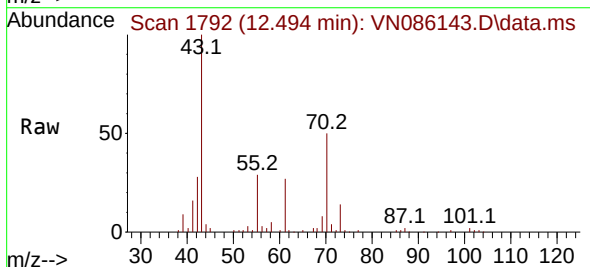
Manual Integrations
APPROVED

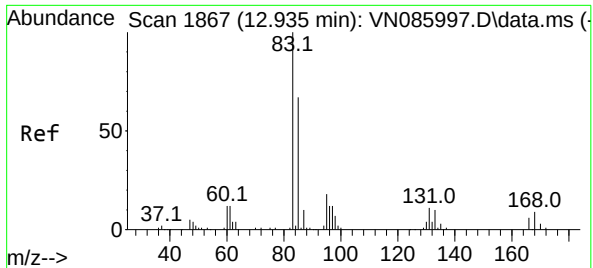
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#74
N-ethyl acetate
Concen: 19.187 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. -0.000 min
Lab File: VN086143.D
Acq: 28 Mar 2025 12:07

Tgt Ion: 43 Resp: 78177
Ion Ratio Lower Upper
43 100
70 50.8 43.0 64.4
55 32.8 23.8 35.8
61 26.6 23.4 35.0





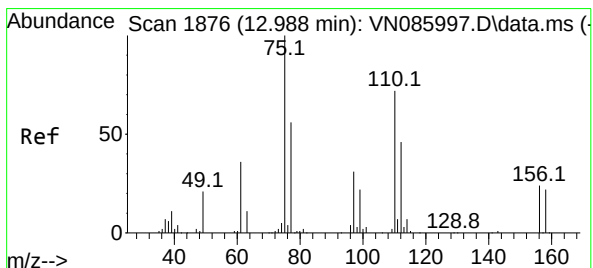
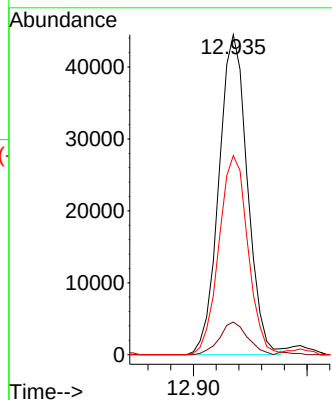
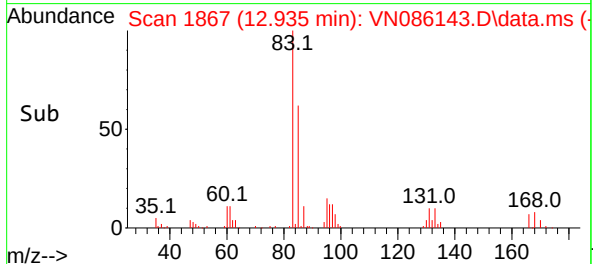
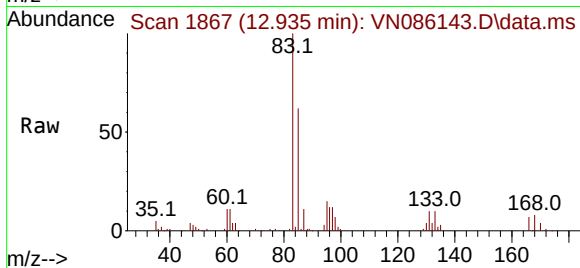
#75
1,1,2-Tetrachloroethane
Concen: 18.806 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. -0.000 min
Lab File: VN086143.D
Acq: 28 Mar 2025 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0328WBS01

Tgt Ion: 83 Resp: 7748
Ion Ratio Lower Upper
83 100
131 10.0 5.5 16.5
85 63.1 32.6 97.8

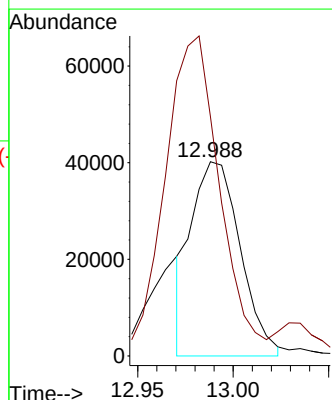
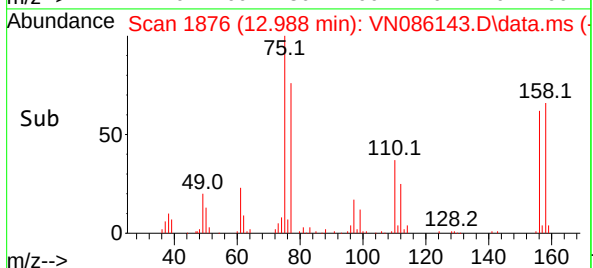
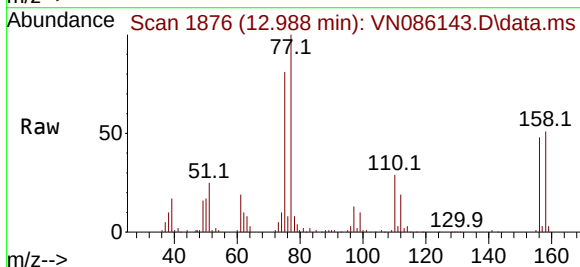
Manual Integrations
APPROVED

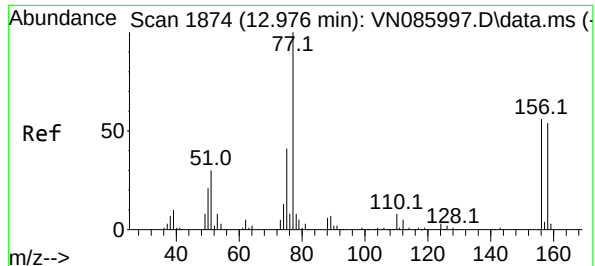
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#76
1,2,3-Trichloropropane
Concen: 17.900 ug/l m
RT: 12.988 min Scan# 1876
Delta R.T. -0.000 min
Lab File: VN086143.D
Acq: 28 Mar 2025 12:07

Tgt Ion: 75 Resp: 71467
Ion Ratio Lower Upper
75 100
77 184.9 83.7 251.0





#77

Bromobenzene

Concen: 18.612 ug/l

RT: 12.976 min Scan# 1874

Delta R.T. -0.000 min

Lab File: VN086143.D

Acq: 28 Mar 2025 12:07

Instrument :

MSVOA_N

ClientSampleId :

VN0328WBS01

Tgt Ion:156 Resp: 63200

Ion Ratio Lower Upper

156 100

77 209.1 104.1 312.3

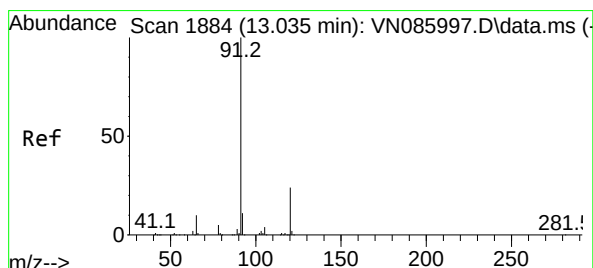
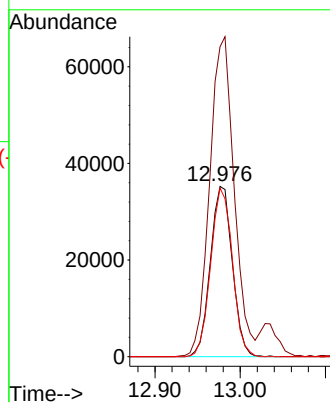
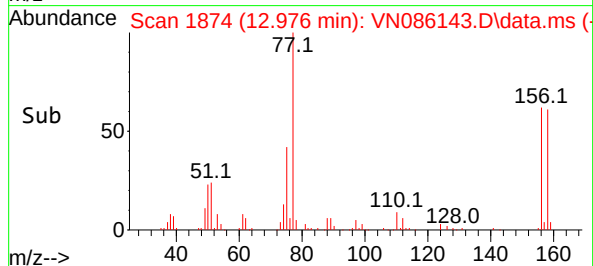
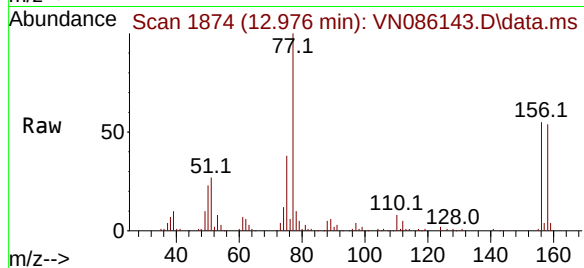
158 97.6 49.0 147.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/31/2025

Supervised By :Mahesh Dadoda 03/31/2025



#78

n-propylbenzene

Concen: 19.641 ug/l

RT: 13.035 min Scan# 1884

Delta R.T. -0.000 min

Lab File: VN086143.D

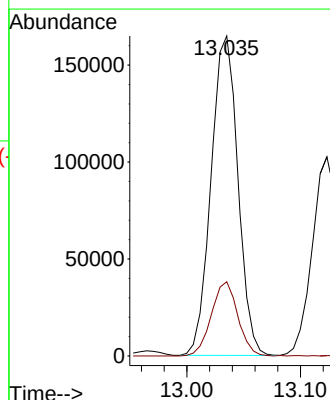
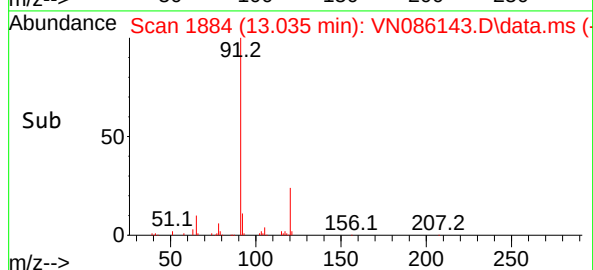
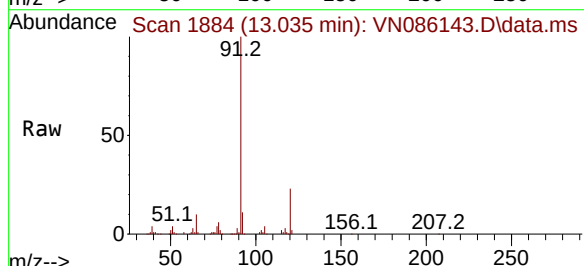
Acq: 28 Mar 2025 12:07

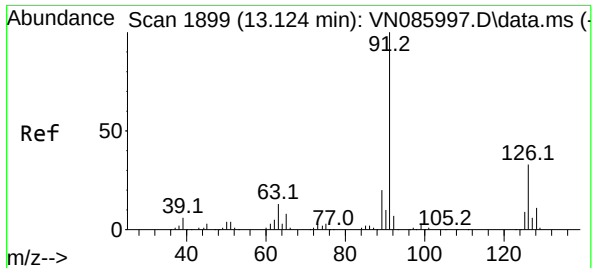
Tgt Ion: 91 Resp: 270846

Ion Ratio Lower Upper

91 100

120 22.8 11.7 35.0





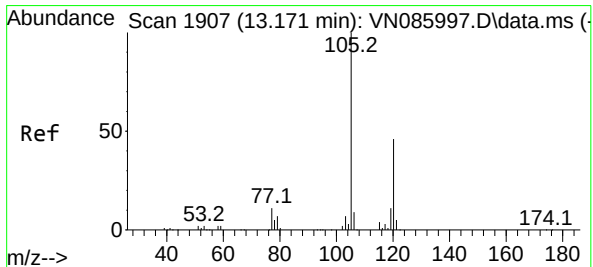
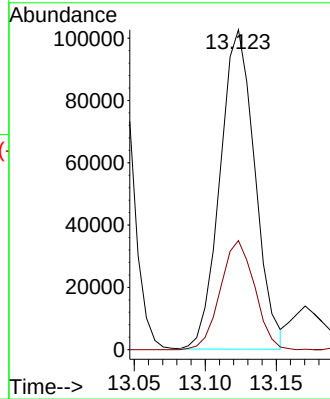
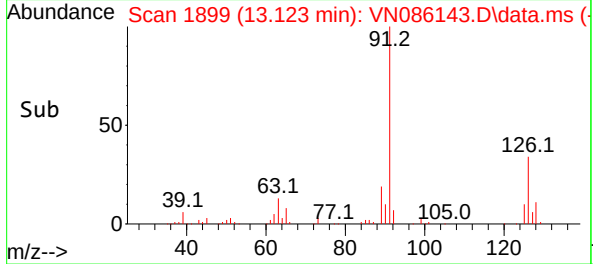
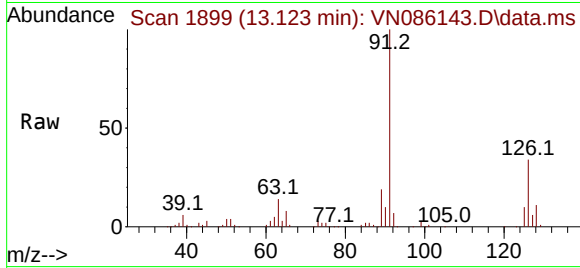
#79
2-Chlorotoluene
Concen: 19.139 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. -0.000 min
Lab File: VN086143.D
Acq: 28 Mar 2025 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0328WBS01

Tgt Ion: 91 Resp: 17530
Ion Ratio Lower Upper
91 100
126 33.5 16.4 49.2

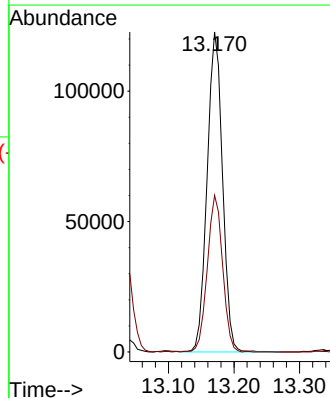
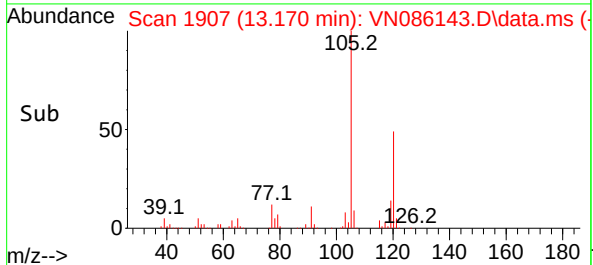
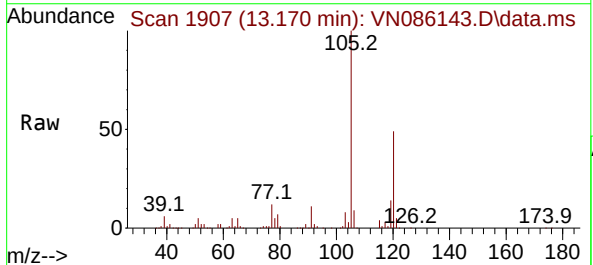
Manual Integrations
APPROVED

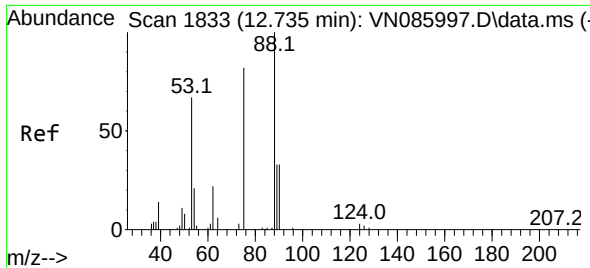
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#80
1,3,5-Trimethylbenzene
Concen: 19.489 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN086143.D
Acq: 28 Mar 2025 12:07

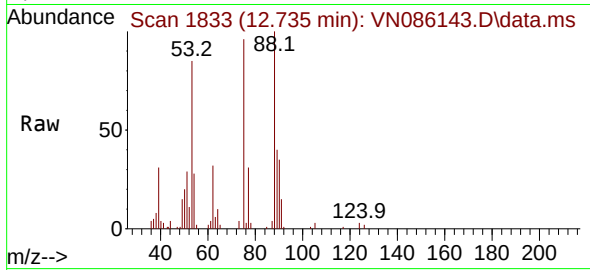
Tgt Ion:105 Resp: 200388
Ion Ratio Lower Upper
105 100
120 48.7 23.7 71.1





#81
trans-1,4-Dichloro-2-butene
Concen: 17.202 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. -0.000 min
Lab File: VN086143.D
Acq: 28 Mar 2025 12:07

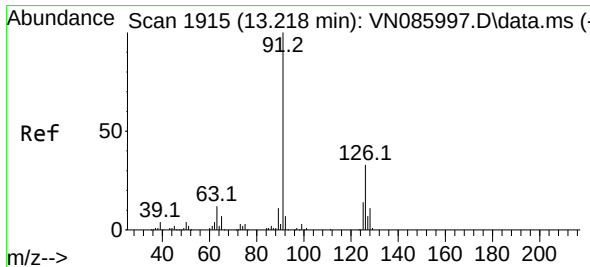
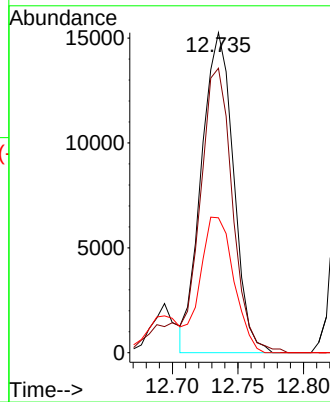
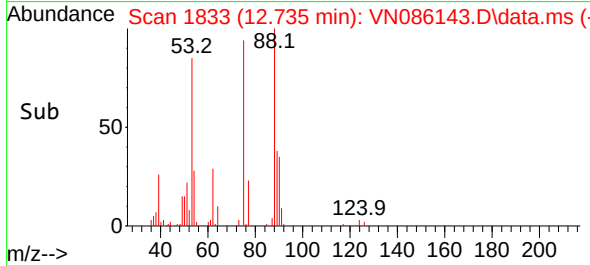
Instrument :
MSVOA_N
ClientSampleId :
VN0328WBS01



Tgt Ion: 75 Resp: 2597
Ion Ratio Lower Upper
75 100
53 98.1 66.0 99.0
89 44.8 36.9 55.3

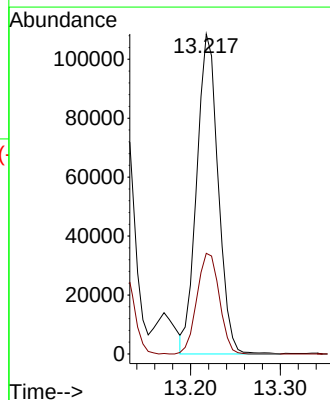
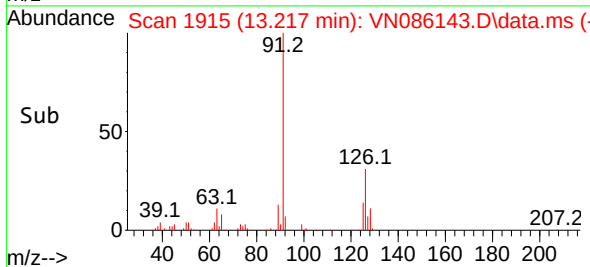
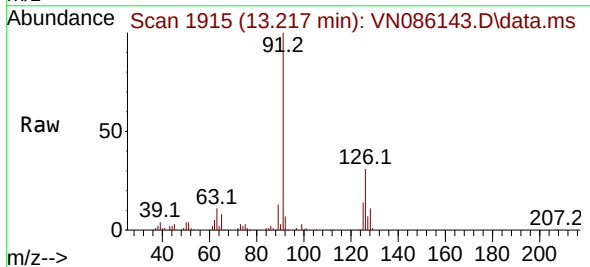
Manual Integrations
APPROVED

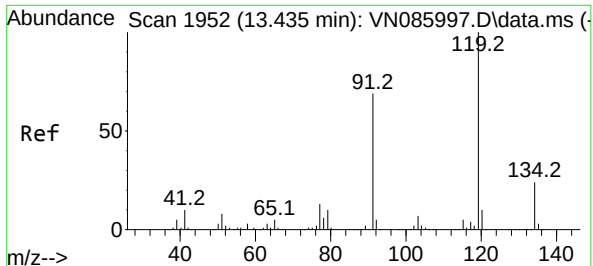
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#82
4-Chlorotoluene
Concen: 19.118 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. -0.000 min
Lab File: VN086143.D
Acq: 28 Mar 2025 12:07

Tgt Ion: 91 Resp: 180075
Ion Ratio Lower Upper
91 100
126 32.8 16.1 48.2





#83

tert-Butylbenzene

Concen: 18.257 ug/l

RT: 13.435 min Scan# 1952

Delta R.T. -0.000 min

Lab File: VN086143.D

Acq: 28 Mar 2025 12:07

Instrument :

MSVOA_N

ClientSampleId :

VN0328WBS01

Tgt Ion:119 Resp: 160550

Ion Ratio Lower Upper

119 100

91 65.1 34.3 102.9

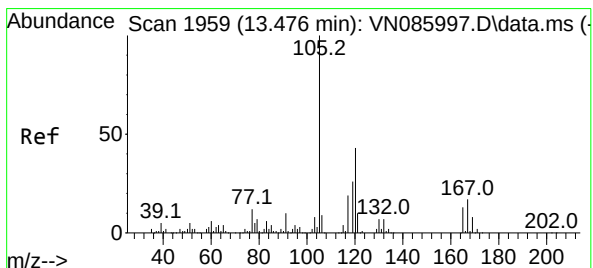
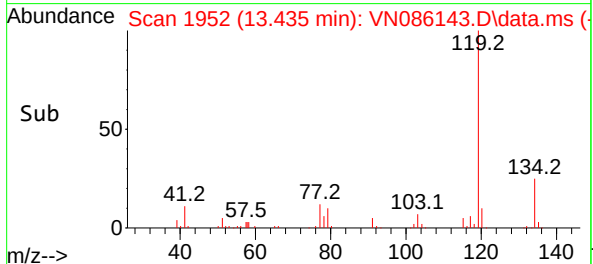
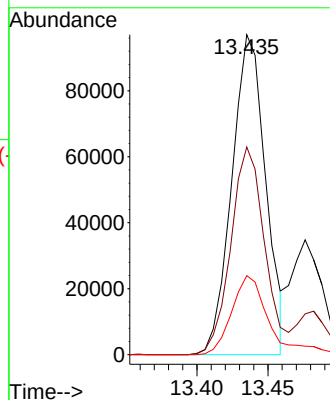
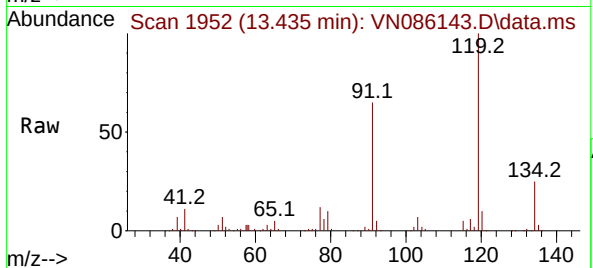
134 27.0 13.5 40.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/31/2025

Supervised By :Mahesh Dadoda 03/31/2025



#84

1,2,4-Trimethylbenzene

Concen: 19.653 ug/l

RT: 13.482 min Scan# 1960

Delta R.T. 0.006 min

Lab File: VN086143.D

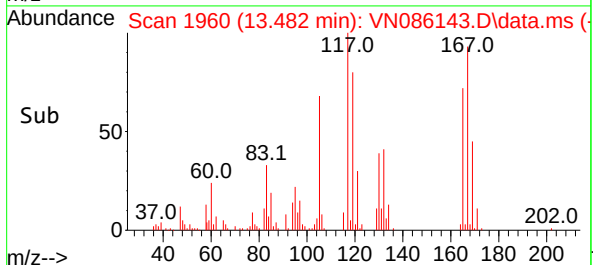
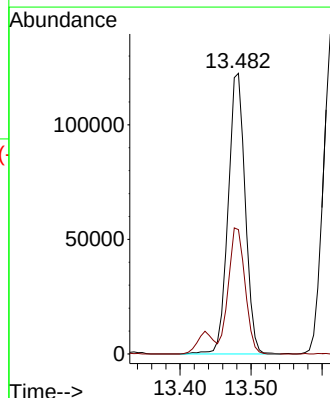
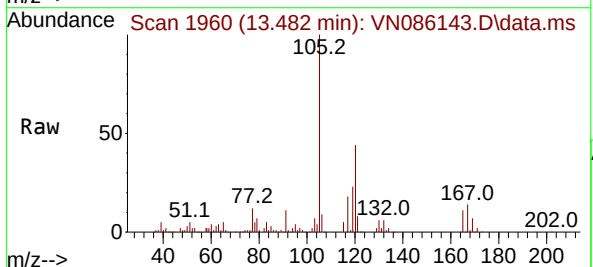
Acq: 28 Mar 2025 12:07

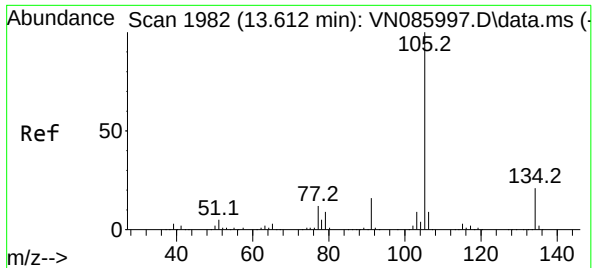
Tgt Ion:105 Resp: 203809

Ion Ratio Lower Upper

105 100

120 43.9 21.9 65.8





#85

sec-Butylbenzene

Concen: 19.663 ug/l

RT: 13.612 min Scan# 1982

Delta R.T. -0.000 min

Lab File: VN086143.D

Acq: 28 Mar 2025 12:07

Instrument :

MSVOA_N

ClientSampleId :

VN0328WBS01

Tgt Ion:105 Resp: 225569

Ion Ratio Lower Upper

105 100

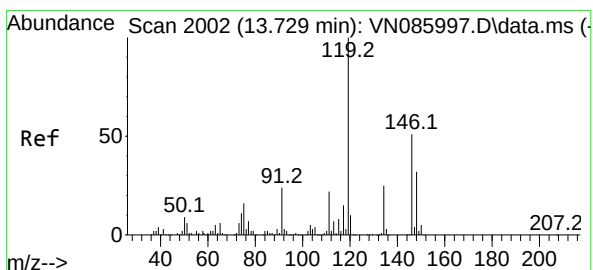
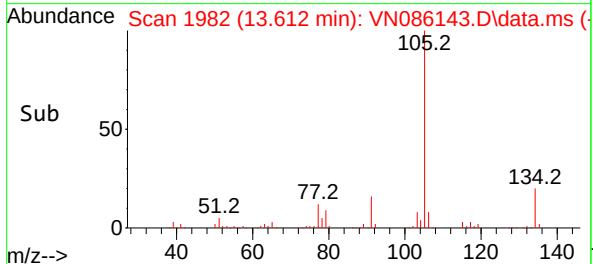
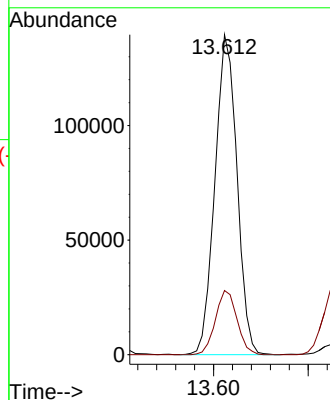
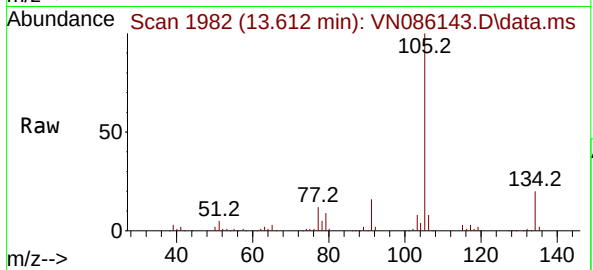
134 19.6 10.1 30.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/31/2025

Supervised By :Mahesh Dadoda 03/31/2025



#86

p-Isopropyltoluene

Concen: 18.940 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.000 min

Lab File: VN086143.D

Acq: 28 Mar 2025 12:07

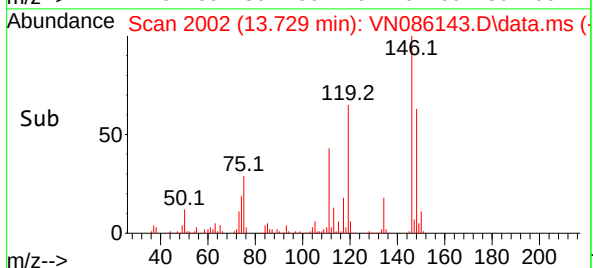
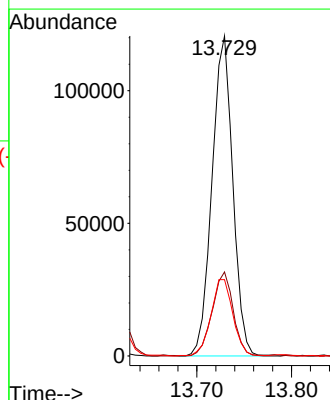
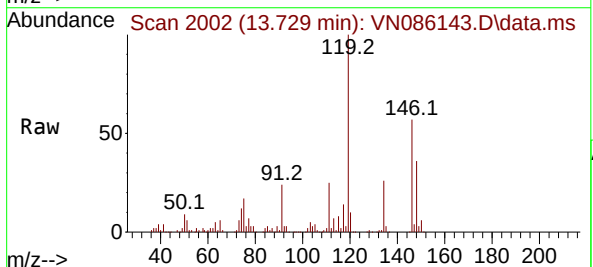
Tgt Ion:119 Resp: 183923

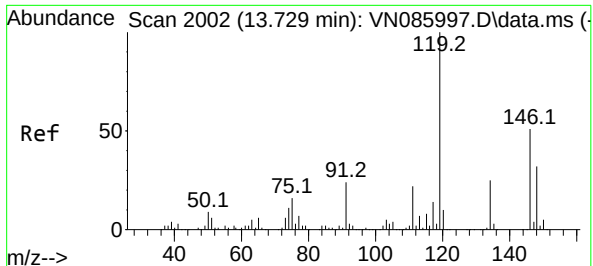
Ion Ratio Lower Upper

119 100

134 26.5 12.6 37.8

91 25.4 12.3 36.8





#87

1,3-Dichlorobenzene

Concen: 19.130 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.000 min

Lab File: VN086143.D

Acq: 28 Mar 2025 12:07

Instrument :

MSVOA_N

ClientSampleId :

VN0328WBS01

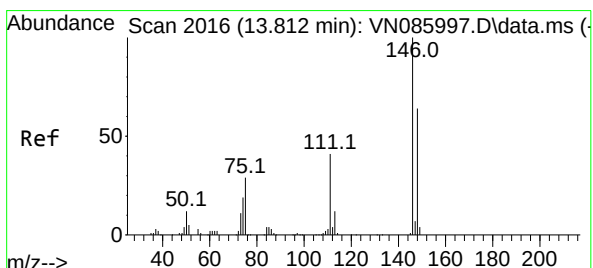
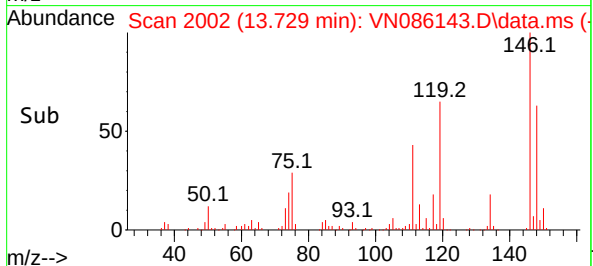
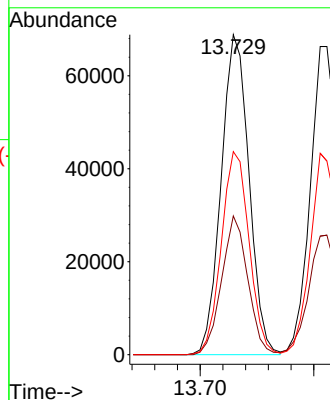
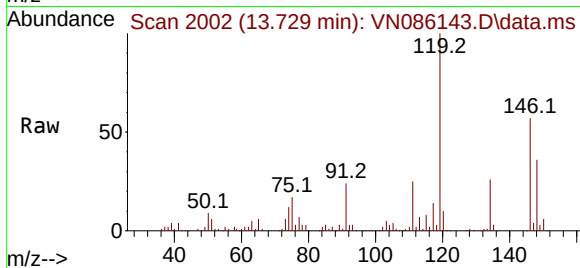
Tgt Ion:	146	Resp:	11709
Ion Ratio	Lower	Upper	
146	100		
111	40.8	21.2	63.6
148	63.4	31.8	95.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/31/2025

Supervised By :Mahesh Dadoda 03/31/2025



#88

1,4-Dichlorobenzene

Concen: 17.839 ug/l

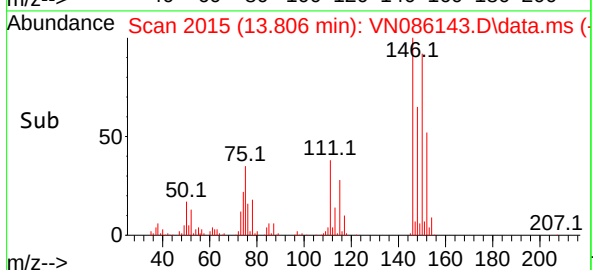
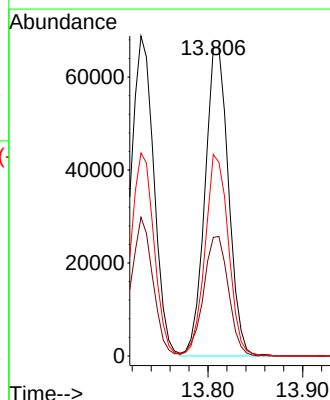
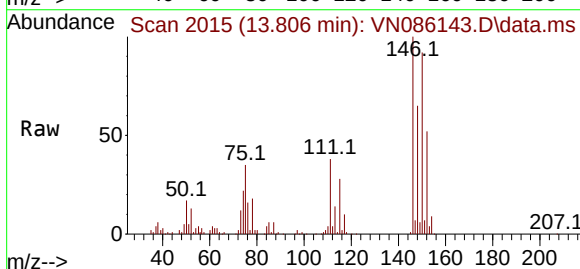
RT: 13.806 min Scan# 2015

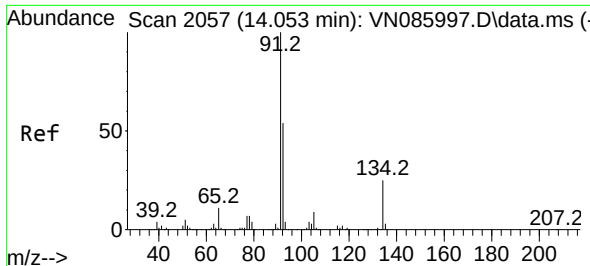
Delta R.T. -0.006 min

Lab File: VN086143.D

Acq: 28 Mar 2025 12:07

Tgt Ion:	146	Resp:	114724
Ion Ratio	Lower	Upper	
146	100		
111	41.0	20.4	61.3
148	64.7	32.1	96.5





#89

n-Butylbenzene

Concen: 17.656 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.000 min

Lab File: VN086143.D

Acq: 28 Mar 2025 12:07

Instrument :

MSVOA_N

ClientSampleId :

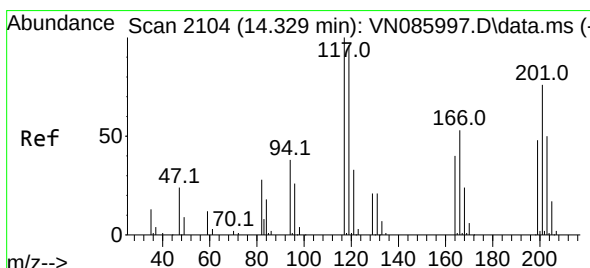
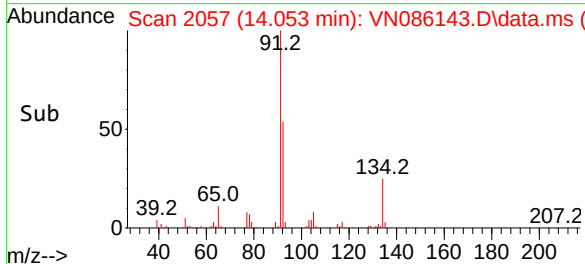
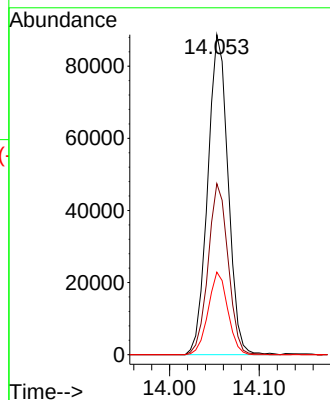
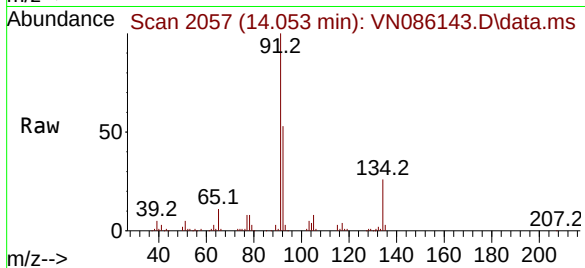
VN0328WBS01

Tgt Ion:	91	Resp:	13962
Ion Ratio	Lower	Upper	
91	100		
92	52.6	26.9	80.6
134	24.9	13.0	39.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/31/2025

Supervised By :Mahesh Dadoda 03/31/2025



#90

Hexachloroethane

Concen: 17.629 ug/l

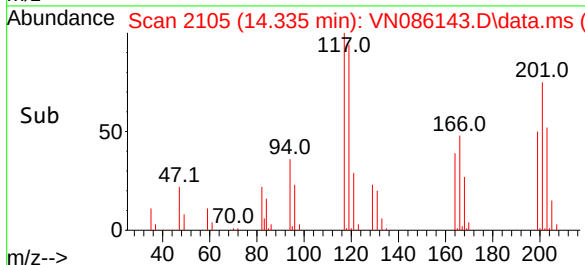
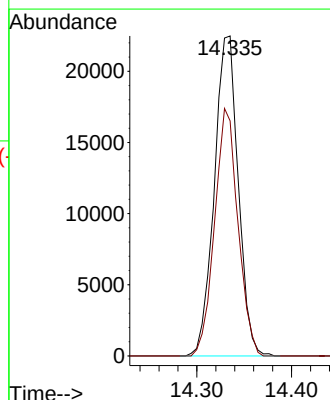
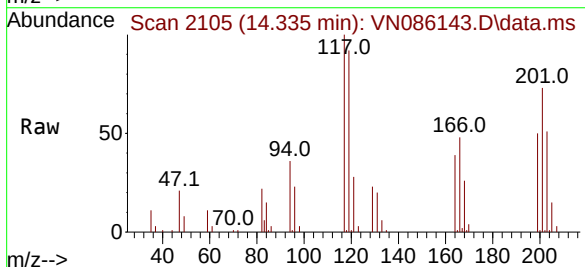
RT: 14.335 min Scan# 2105

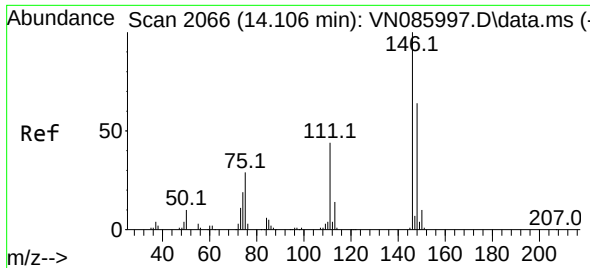
Delta R.T. 0.006 min

Lab File: VN086143.D

Acq: 28 Mar 2025 12:07

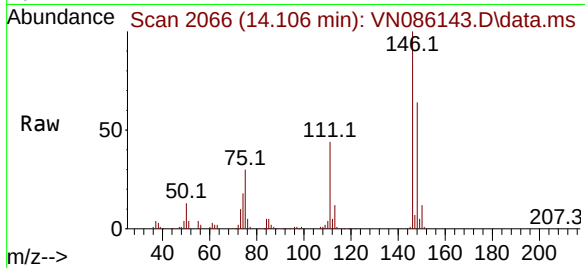
Tgt Ion:	117	Resp:	39502
Ion Ratio	Lower	Upper	
117	100		
201	75.4	39.1	117.3





#91
1,2-Dichlorobenzene
Concen: 18.677 ug/l
RT: 14.106 min Scan# 2066
Delta R.T. -0.000 min
Lab File: VN086143.D
Acq: 28 Mar 2025 12:07

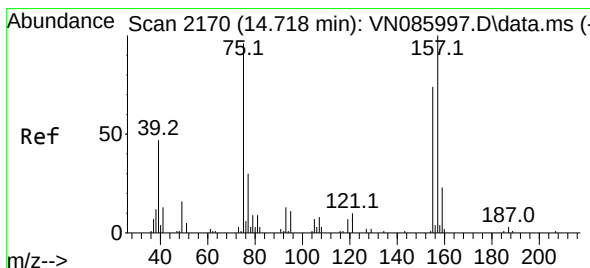
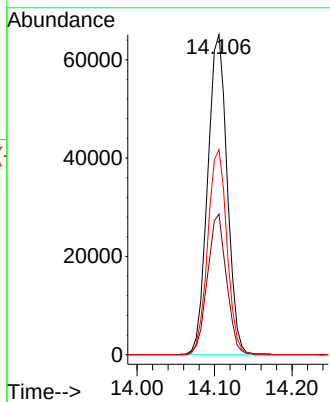
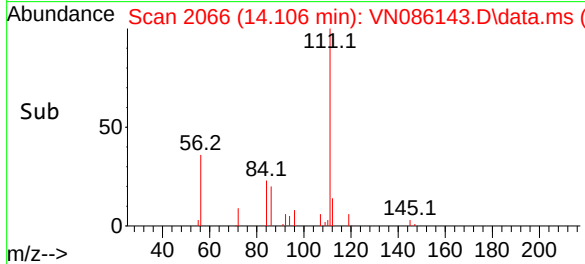
Instrument :
MSVOA_N
ClientSampleId :
VN0328WBS01



Tgt Ion:146 Resp: 11364
Ion Ratio Lower Upper
146 100
111 43.1 22.3 66.8
148 63.3 32.1 96.5

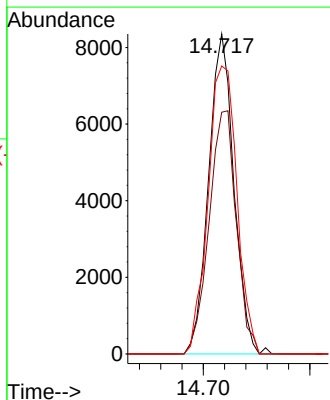
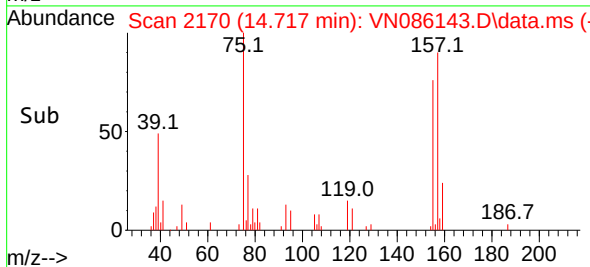
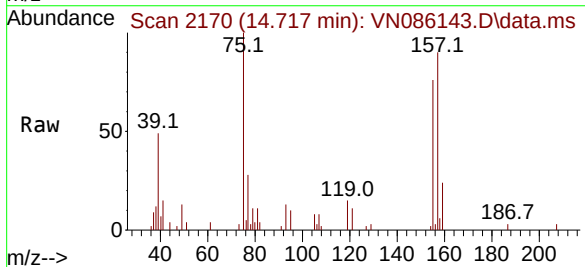
Manual Integrations
APPROVED

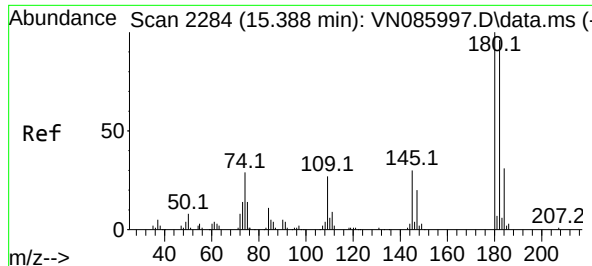
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 16.781 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN086143.D
Acq: 28 Mar 2025 12:07

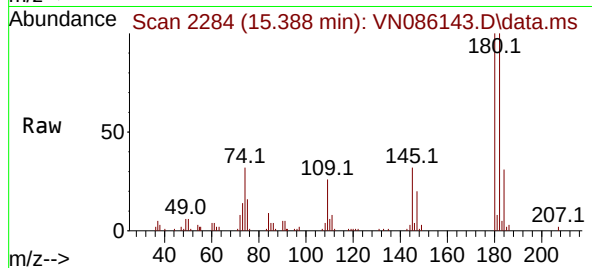
Tgt Ion: 75 Resp: 13801
Ion Ratio Lower Upper
75 100
155 81.6 41.0 123.0
157 102.8 53.7 161.1





#93
1,2,4-Trichlorobenzene
Concen: 15.473 ug/l
RT: 15.388 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN086143.D
Acq: 28 Mar 2025 12:07

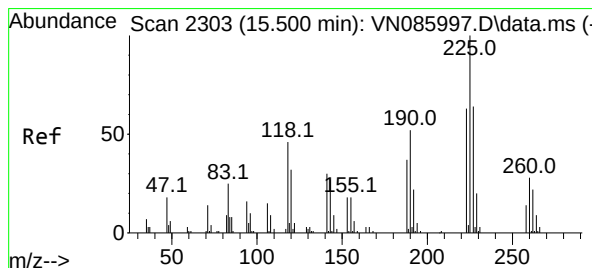
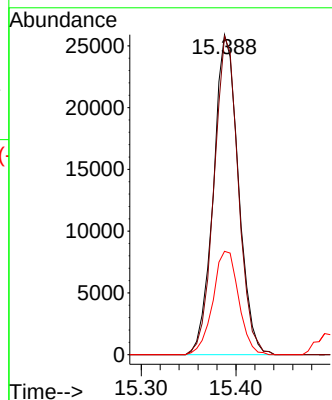
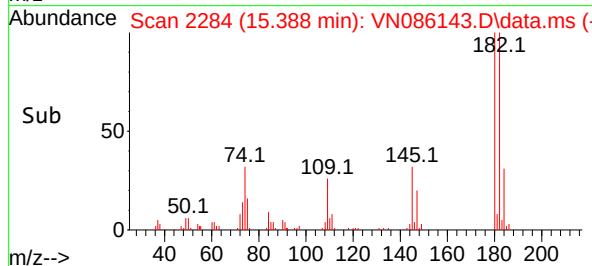
Instrument :
MSVOA_N
ClientSampleId :
VN0328WBS01



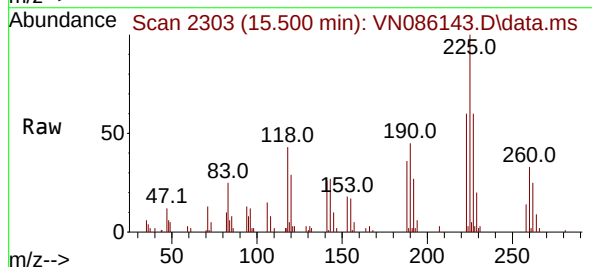
Tgt Ion:180 Resp: 4734
Ion Ratio Lower Upper
180 100
182 96.7 47.0 141.0
145 33.5 15.5 46.5

Manual Integrations
APPROVED

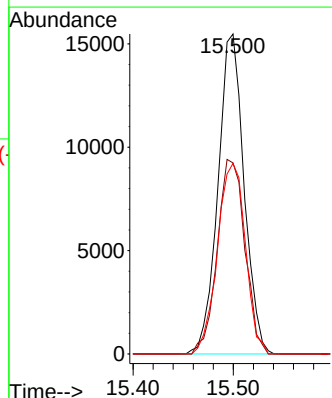
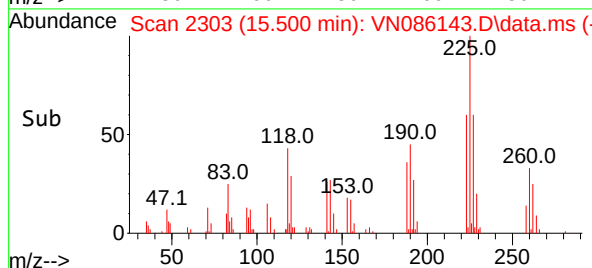
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025

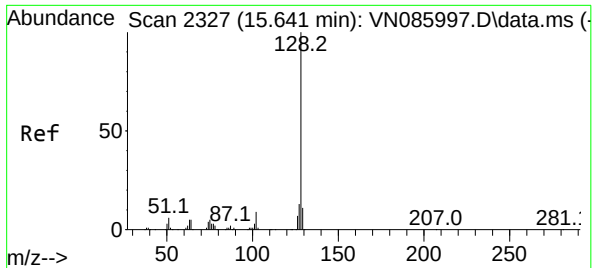


#94
Hexachlorobutadiene
Concen: 15.743 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. -0.000 min
Lab File: VN086143.D
Acq: 28 Mar 2025 12:07



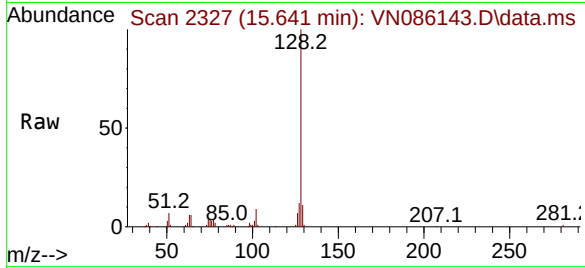
Tgt Ion:225 Resp: 27945
Ion Ratio Lower Upper
225 100
223 64.5 31.3 93.9
227 63.8 32.1 96.3





#95
Naphthalene
Concen: 14.294 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. -0.000 min
Lab File: VN086143.D
Acq: 28 Mar 2025 12:07

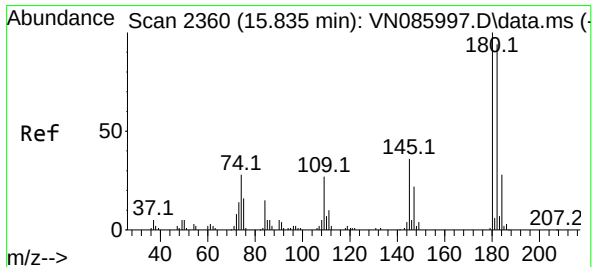
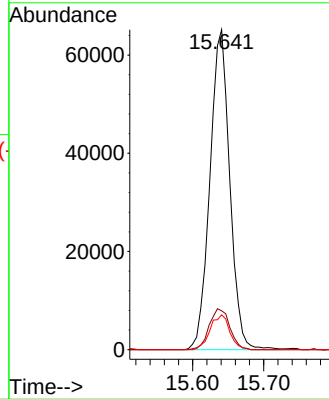
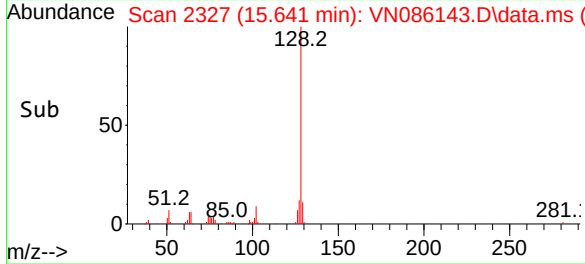
Instrument :
MSVOA_N
ClientSampleId :
VN0328WBS01



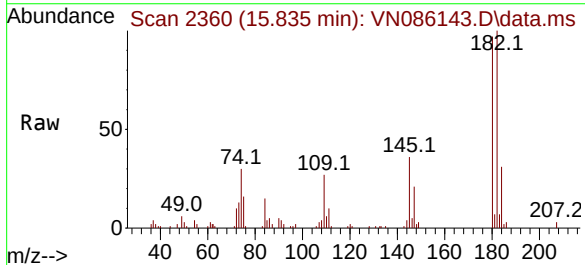
Tgt Ion:128 Resp: 126634
Ion Ratio Lower Upper
128 100
127 13.3 10.2 15.4
129 10.7 9.0 13.6

Manual Integrations
APPROVED

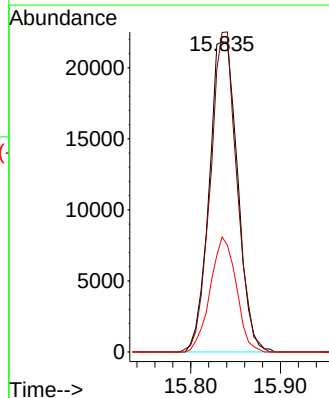
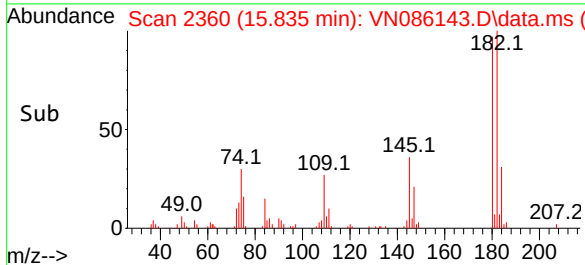
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#96
1,2,3-Trichlorobenzene
Concen: 16.478 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VN086143.D
Acq: 28 Mar 2025 12:07



Tgt Ion:180 Resp: 47837
Ion Ratio Lower Upper
180 100
182 96.5 47.5 142.5
145 34.0 17.7 53.1



Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	03/26/25	
Project:	RFP 905		Date Received:	03/27/25	
Client Sample ID:	P001-BBDGA-001-01MS		SDG No.:	Q1664	
Lab Sample ID:	Q1664-05MS		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	SPLP VOA	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086163.D	1		03/28/25 20:18	VN032825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	39.3		0.22	5.00	ug/L
74-87-3	Chloromethane	42.8		0.32	5.00	ug/L
75-01-4	Vinyl Chloride	41.2		0.26	5.00	ug/L
74-83-9	Bromomethane	31.9		1.40	5.00	ug/L
75-00-3	Chloroethane	34.8		0.47	5.00	ug/L
75-69-4	Trichlorofluoromethane	41.3		0.33	5.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	45.3		0.25	5.00	ug/L
75-35-4	1,1-Dichloroethene	45.9		0.23	5.00	ug/L
67-64-1	Acetone	260		1.50	25.0	ug/L
75-15-0	Carbon Disulfide	38.7		0.21	5.00	ug/L
1634-04-4	Methyl tert-butyl Ether	45.8		0.16	5.00	ug/L
79-20-9	Methyl Acetate	54.6		0.27	5.00	ug/L
75-09-2	Methylene Chloride	49.3		0.28	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	46.2		0.23	5.00	ug/L
75-34-3	1,1-Dichloroethane	46.5		0.23	5.00	ug/L
110-82-7	Cyclohexane	46.5		1.50	5.00	ug/L
78-93-3	2-Butanone	240		0.98	25.0	ug/L
56-23-5	Carbon Tetrachloride	44.3		0.25	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	47.5		0.19	5.00	ug/L
74-97-5	Bromochloromethane	51.5		0.22	5.00	ug/L
67-66-3	Chloroform	46.3		0.25	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	44.0		0.20	5.00	ug/L
108-87-2	Methylcyclohexane	47.3		0.16	5.00	ug/L
71-43-2	Benzene	48.7		0.15	5.00	ug/L
107-06-2	1,2-Dichloroethane	44.1		0.22	5.00	ug/L
79-01-6	Trichloroethene	64.9		0.090	5.00	ug/L
78-87-5	1,2-Dichloropropane	51.6		0.20	5.00	ug/L
75-27-4	Bromodichloromethane	47.4		0.22	5.00	ug/L
108-10-1	4-Methyl-2-Pentanone	250		0.68	25.0	ug/L
108-88-3	Toluene	50.5		0.14	5.00	ug/L

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	03/26/25	
Project:	RFP 905		Date Received:	03/27/25	
Client Sample ID:	P001-BBDGA-001-01MS		SDG No.:	Q1664	
Lab Sample ID:	Q1664-05MS		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	SPLP VOA	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086163.D	1		03/28/25 20:18	VN032825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	45.7		0.17	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	48.0		0.16	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	50.7		0.21	5.00	ug/L
591-78-6	2-Hexanone	260		0.89	25.0	ug/L
124-48-1	Dibromochloromethane	47.9		0.18	5.00	ug/L
106-93-4	1,2-Dibromoethane	47.3		0.15	5.00	ug/L
127-18-4	Tetrachloroethene	73.3		0.23	5.00	ug/L
108-90-7	Chlorobenzene	46.7		0.12	5.00	ug/L
100-41-4	Ethyl Benzene	49.9		0.13	5.00	ug/L
179601-23-1	m/p-Xylenes	100		0.24	10.0	ug/L
95-47-6	o-Xylene	52.8		0.12	5.00	ug/L
100-42-5	Styrene	53.2		0.15	5.00	ug/L
75-25-2	Bromoform	44.6		0.19	5.00	ug/L
98-82-8	Isopropylbenzene	47.5		0.12	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	16.7		0.26	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	46.5		0.16	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	44.0		0.19	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	45.4		0.16	5.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	40.9		0.53	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	42.3		0.20	5.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	44.1		0.20	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	43.8		74 - 125	88%	SPK: 50
1868-53-7	Dibromofluoromethane	39.0		75 - 124	78%	SPK: 50
2037-26-5	Toluene-d8	48.1		86 - 113	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.6		77 - 121	101%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	228000	8.224			
540-36-3	1,4-Difluorobenzene	361000	9.1			
3114-55-4	Chlorobenzene-d5	326000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	171000	13.788			

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-001-01MS	SDG No.:	Q1664
Lab Sample ID:	Q1664-05MS	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	SPLP VOA
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086163.D	1		03/28/25 20:18	VN032825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032825\
 Data File : VN086163.D
 Acq On : 28 Mar 2025 20:18
 Operator : JC\MD
 Sample : Q1664-05MS
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 P001-BBDGA-001-01MS

Quant Time: Mar 28 23:40:36 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 19 03:20:56 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 03/31/2025
 Supervised By :Mahesh Dadoda 03/31/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	227713	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	361019	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	325952	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	170825	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	136570	43.798	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	87.600%		
35) Dibromofluoromethane	8.165	113	98166	38.957	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	77.920%		
50) Toluene-d8	10.565	98	439543	48.062	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	96.120%		
62) 4-Bromofluorobenzene	12.847	95	165058	50.608	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	101.220%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	118498	39.279	ug/l	97
3) Chloromethane	2.359	50	113101	42.764	ug/l	100
4) Vinyl Chloride	2.512	62	111324	41.167	ug/l	96
5) Bromomethane	2.948	94	58723	31.880	ug/l	96
6) Chloroethane	3.118	64	59308	34.765	ug/l	90
7) Trichlorofluoromethane	3.495	101	200811	41.309	ug/l	98
8) Diethyl Ether	3.959	74	66847	44.919	ug/l	91
9) 1,1,2-Trichlorotrifluo...	4.365	101	117134	45.338	ug/l	98
10) Methyl Iodide	4.589	142	152174	45.203	ug/l	97
11) Tert butyl alcohol	5.512	59	76034	172.226	ug/l	98
12) 1,1-Dichloroethene	4.342	96	106968	45.852	ug/l	96
13) Acrolein	4.177	56	83277	176.858	ug/l	96
14) Allyl chloride	5.024	41	130753	44.926	ug/l	98
15) Acrylonitrile	5.712	53	268570	230.347	ug/l	99
16) Acetone	4.424	43	246325	258.574	ug/l	97
17) Carbon Disulfide	4.712	76	296887	38.696	ug/l	98
18) Methyl Acetate	5.024	43	128611	54.566	ug/l	96
19) Methyl tert-butyl Ether	5.789	73	349983	45.781	ug/l	98
20) Methylene Chloride	5.277	84	137253	49.250	ug/l	95
21) trans-1,2-Dichloroethene	5.783	96	117855	46.226	ug/l	94
22) Diisopropyl ether	6.671	45	287268	46.318	ug/l	98
23) Vinyl Acetate	6.671	43	158187	33.645	ug/l #	67
24) 1,1-Dichloroethane	6.565	63	212075	46.500	ug/l	99
25) 2-Butanone	7.477	43	323956	235.675	ug/l	94
26) 2,2-Dichloropropane	7.488	77	155514	35.418	ug/l	97
27) cis-1,2-Dichloroethene	7.488	96	137479	47.453	ug/l	98
28) Bromochloromethane	7.812	49	99579	51.534	ug/l	94
29) Tetrahydrofuran	7.835	42	208057	245.171	ug/l	94
30) Chloroform	7.959	83	233212	46.262	ug/l	99
31) Cyclohexane	8.253	56	180539	46.468	ug/l	98
32) 1,1,1-Trichloroethane	8.165	97	210092	44.027	ug/l	99
36) 1,1-Dichloropropene	8.371	75	157763	47.547	ug/l	99
37) Ethyl Acetate	7.559	43	111808	39.942	ug/l	98
38) Carbon Tetrachloride	8.359	117	193294	44.306	ug/l	99
39) Methylcyclohexane	9.600	83	155609	47.270	ug/l	96
40) Benzene	8.606	78	507344	48.708	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032825\
 Data File : VN086163.D
 Acq On : 28 Mar 2025 20:18
 Operator : JC\MD
 Sample : Q1664-05MS
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 P001-BBDGA-001-01MS

Quant Time: Mar 28 23:40:36 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 19 03:20:56 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 03/31/2025
 Supervised By :Mahesh Dadoda 03/31/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	71043	53.150	ug/l	91
42) 1,2-Dichloroethane	8.665	62	159959	44.073	ug/l	96
43) Isopropyl Acetate	8.688	43	211195	34.817	ug/l	98
44) Trichloroethene	9.347	130	175105	64.863	ug/l	98
45) 1,2-Dichloropropane	9.618	63	122320	51.632	ug/l	98
46) Dibromomethane	9.706	93	88901	47.716	ug/l	99
47) Bromodichloromethane	9.882	83	184562	47.398	ug/l	98
48) Methyl methacrylate	9.677	41	89351	44.639	ug/l	98
49) 1,4-Dioxane	9.694	88	42160	890.990	ug/l	91
51) 4-Methyl-2-Pentanone	10.441	43	674213	252.028	ug/l	97
52) Toluene	10.629	92	322818	50.496	ug/l	99
53) t-1,3-Dichloropropene	10.829	75	172876	45.715	ug/l	98
54) cis-1,3-Dichloropropene	10.312	75	191689	48.044	ug/l	99
55) 1,1,2-Trichloroethane	11.012	97	123781	50.730	ug/l	97
56) Ethyl methacrylate	10.871	69	167499	44.928	ug/l	96
57) 1,3-Dichloropropane	11.159	76	205955	49.696	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.159	63	399789	269.917	ug/l	96
59) 2-Hexanone	11.194	43	503146	258.178	ug/l	97
60) Dibromochloromethane	11.359	129	150858	47.913	ug/l	98
61) 1,2-Dibromoethane	11.465	107	118559	47.330	ug/l	98
64) Tetrachloroethene	11.100	164	190692	73.339	ug/l	98
65) Chlorobenzene	11.888	112	348563	46.733	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.959	131	131172	47.309	ug/l	99
67) Ethyl Benzene	11.959	91	595807	49.937	ug/l	98
68) m/p-Xylenes	12.070	106	480459	102.455	ug/l	99
69) o-Xylene	12.394	106	227414	52.838	ug/l	95
70) Styrene	12.406	104	391221	53.217	ug/l	98
71) Bromoform	12.576	173	103403	44.612	ug/l #	100
73) Isopropylbenzene	12.694	105	554510	47.535	ug/l	99
74) N-amyl acetate	12.488	43	172649	44.237	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.935	83	65940	16.708	ug/l	99
76) 1,2,3-Trichloropropane	12.994	75	137638m	35.989	ug/l	
77) Bromobenzene	12.976	156	145420	44.707	ug/l	98
78) n-propylbenzene	13.035	91	663204	50.207	ug/l	100
79) 2-Chlorotoluene	13.123	91	416519	47.473	ug/l	99
80) 1,3,5-Trimethylbenzene	13.170	105	487730	49.521	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.735	75	62448	43.170	ug/l	94
82) 4-Chlorotoluene	13.217	91	426559	47.277	ug/l	99
83) tert-Butylbenzene	13.435	119	392748	46.626	ug/l	98
84) 1,2,4-Trimethylbenzene	13.482	105	494906	49.821	ug/l	99
85) sec-Butylbenzene	13.612	105	552196	50.251	ug/l	99
86) p-Isopropyltoluene	13.729	119	467935	50.305	ug/l	98
87) 1,3-Dichlorobenzene	13.729	146	272420	46.463	ug/l	100
88) 1,4-Dichlorobenzene	13.812	146	270819	43.963	ug/l	99
89) n-Butylbenzene	14.053	91	370059	48.853	ug/l	99
90) Hexachloroethane	14.329	117	94053	43.820	ug/l	96
91) 1,2-Dichlorobenzene	14.106	146	264604	45.398	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.717	75	32206	40.881	ug/l	96
93) 1,2,4-Trichlorobenzene	15.388	180	124095	42.343	ug/l	98
94) Hexachlorobutadiene	15.500	225	64271	37.800	ug/l	99
95) Naphthalene	15.635	128	357507	42.128	ug/l	99
96) 1,2,3-Trichlorobenzene	15.835	180	122528	44.061	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032825\
Data File : VN086163.D
Acq On : 28 Mar 2025 20:18
Operator : JC\MD
Sample : Q1664-05MS
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Mar 28 23:40:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 19 03:20:56 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-001-01MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025

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

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

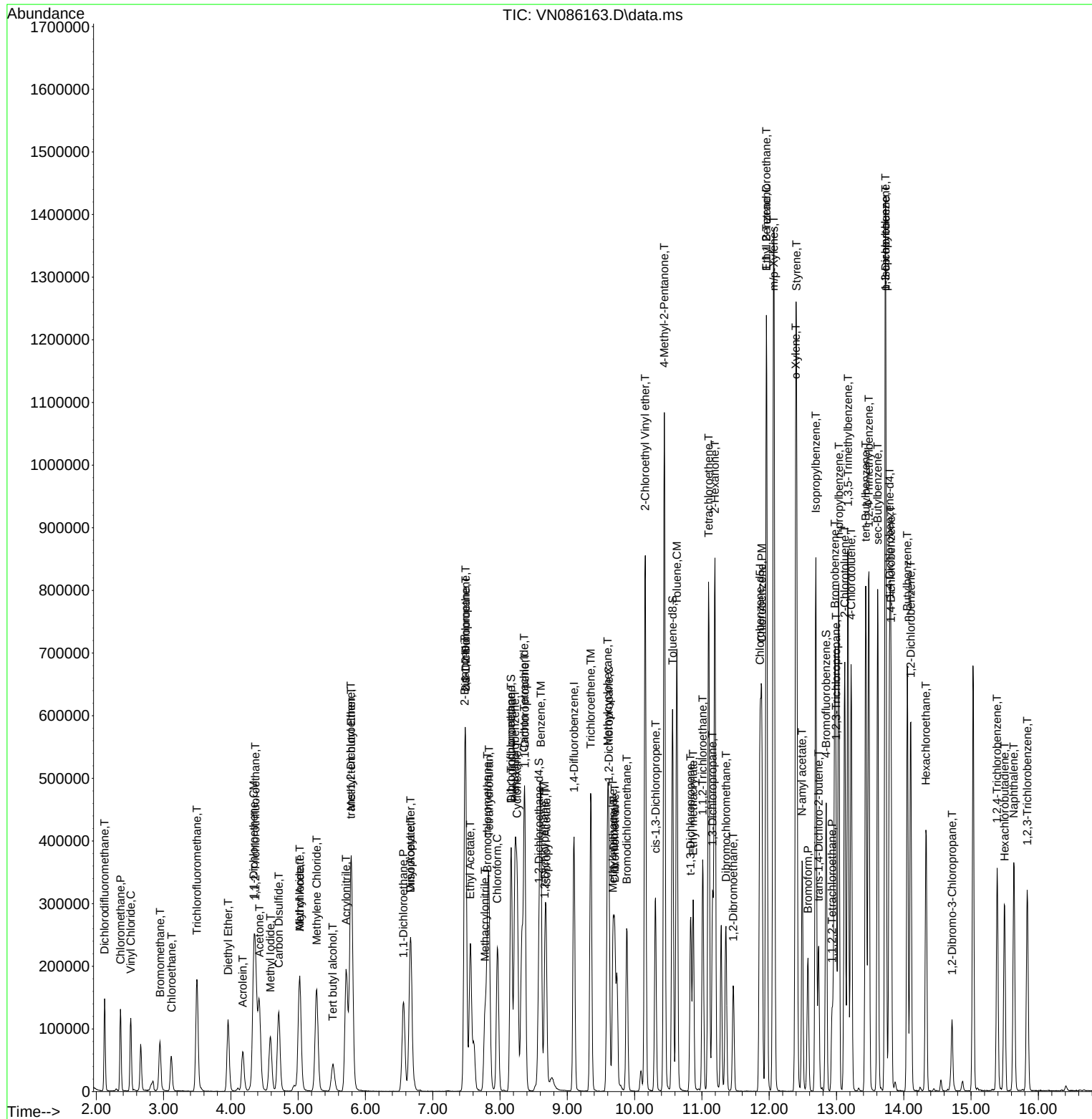
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 Data File : VN086163.D
 Acq On : 28 Mar 2025 20:18
 Operator : JC\MD
 Sample : Q1664-05MS
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 26 Sample Multiplier: 1

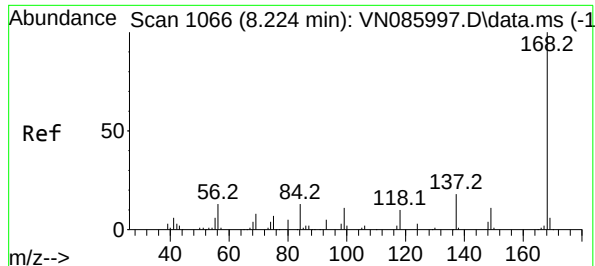
Instrument :
 MSVOA_N
 ClientSampleId :
 P001-BBDGA-001-01MS

Quant Time: Mar 28 23:40:36 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 19 03:20:56 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

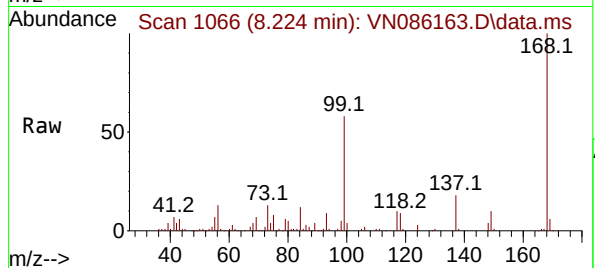
Reviewed By : John Carlone 03/31/2025
 Supervised By : Mahesh Dadoda 03/31/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN086163.D
Acq: 28 Mar 2025 20:18

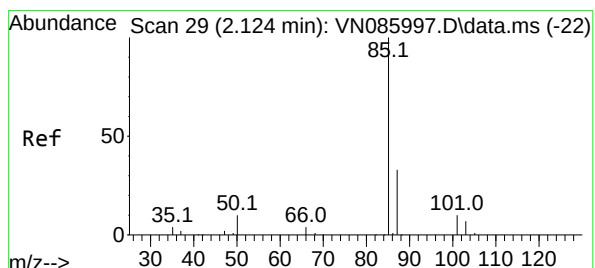
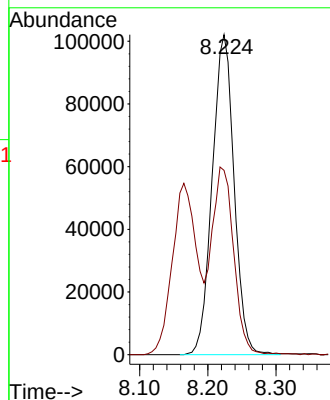
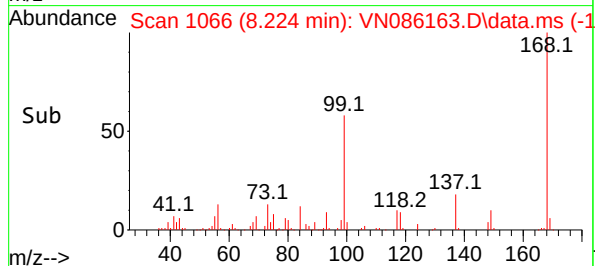
Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-001-01MS



Tgt Ion:168 Resp: 22771
Ion Ratio Lower Upper
168 100
99 57.3 49.4 74.2

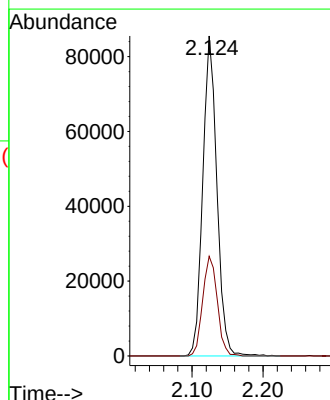
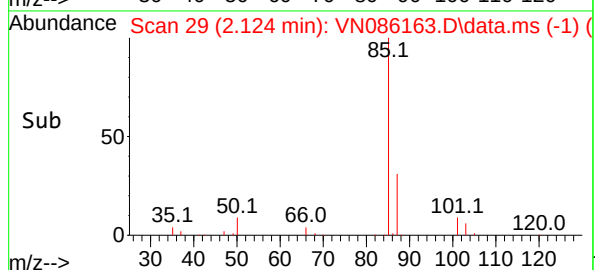
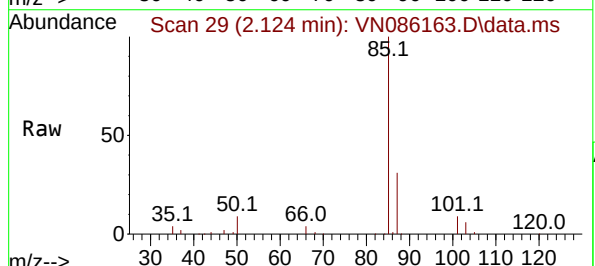
Manual Integrations
APPROVED

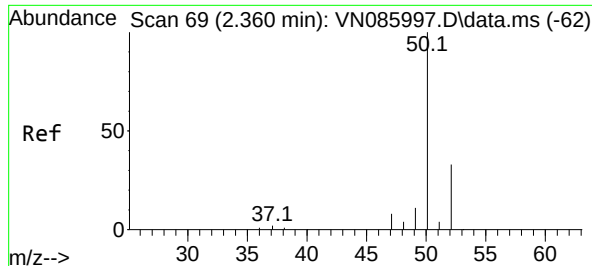
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#2
Dichlorodifluoromethane
Concen: 39.279 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN086163.D
Acq: 28 Mar 2025 20:18

Tgt Ion: 85 Resp: 118498
Ion Ratio Lower Upper
85 100
87 31.1 16.5 49.5





#3

Chloromethane

Concen: 42.764 ug/l

RT: 2.359 min Scan# 69

Delta R.T. -0.000 min

Lab File: VN086163.D

Acq: 28 Mar 2025 20:18

Instrument :

MSVOA_N

ClientSampleId :

P001-BBDGA-001-01MS

Tgt Ion: 50 Resp: 11310

Ion Ratio Lower Upper

50 100

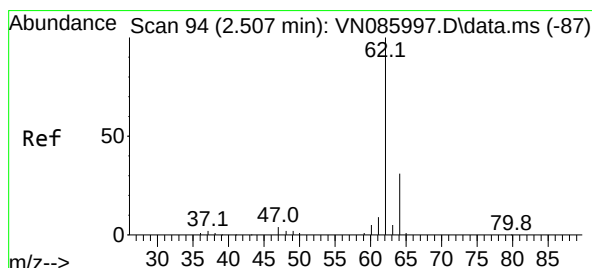
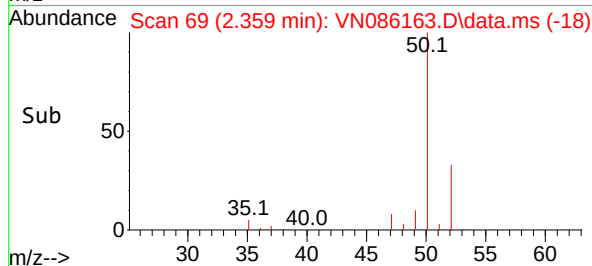
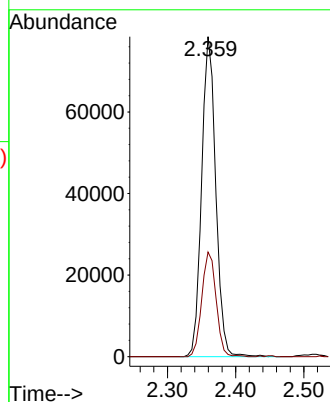
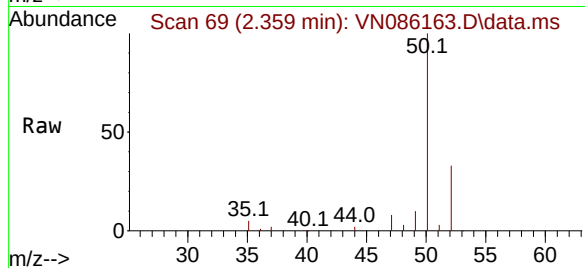
52 32.7 26.0 39.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/31/2025

Supervised By :Mahesh Dadoda 03/31/2025



#4

Vinyl Chloride

Concen: 41.167 ug/l

RT: 2.512 min Scan# 95

Delta R.T. 0.006 min

Lab File: VN086163.D

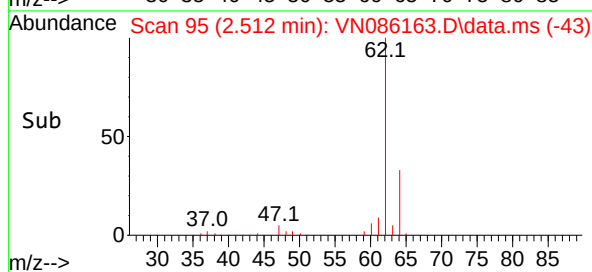
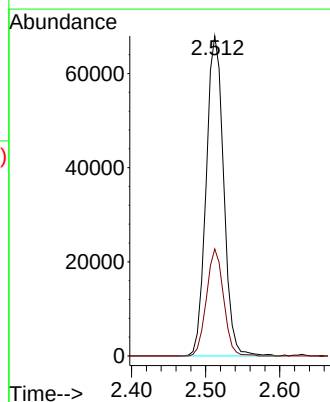
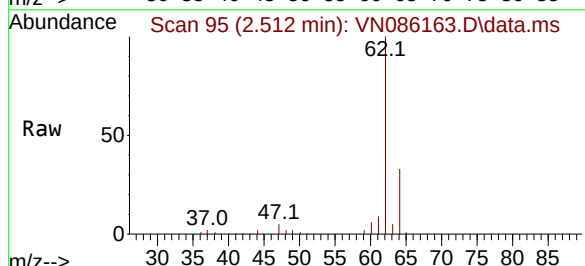
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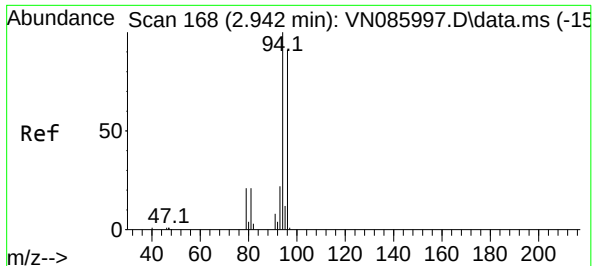
Tgt Ion: 62 Resp: 111324

Ion Ratio Lower Upper

62 100

64 33.5 25.2 37.8





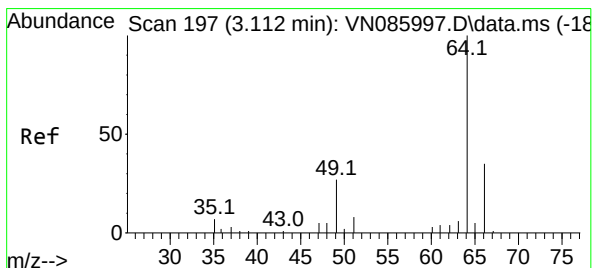
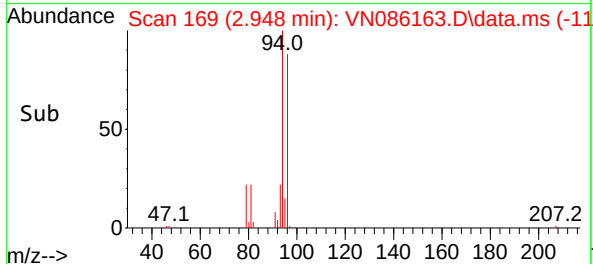
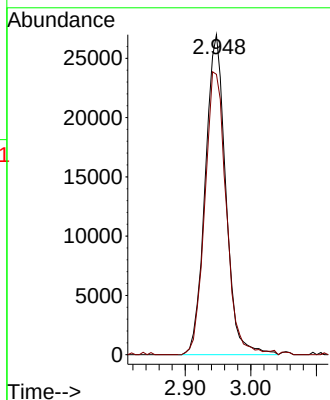
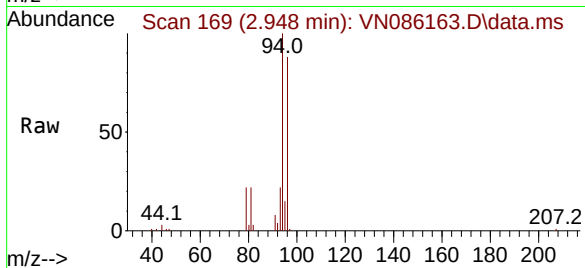
#5
Bromomethane
Concen: 31.880 ug/l
RT: 2.948 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN086163.D
Acq: 28 Mar 2025 20:18

Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-001-01MS

Tgt Ion: 94 Resp: 5872
Ion Ratio Lower Upper
94 100
96 87.6 72.8 109.2

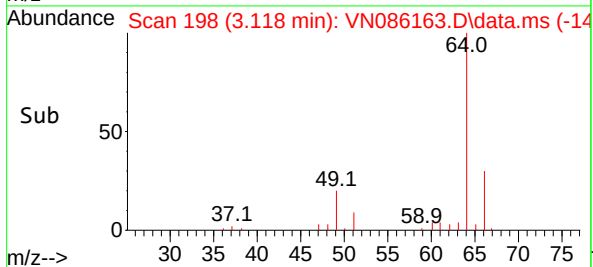
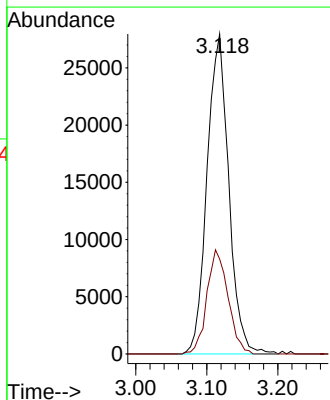
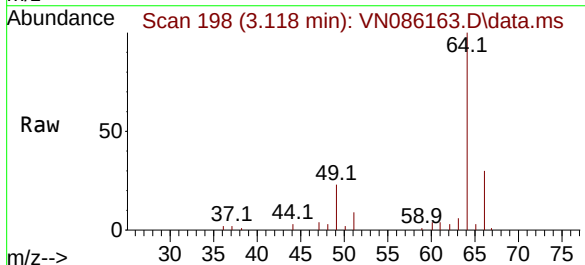
Manual Integrations
APPROVED

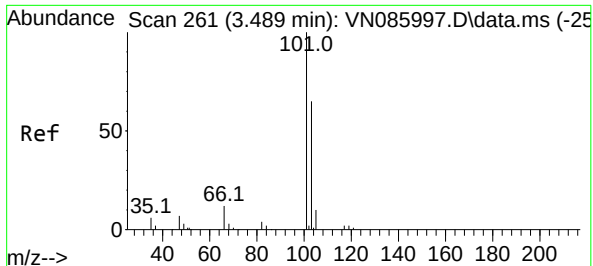
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#6
Chloroethane
Concen: 34.765 ug/l
RT: 3.118 min Scan# 198
Delta R.T. 0.006 min
Lab File: VN086163.D
Acq: 28 Mar 2025 20:18

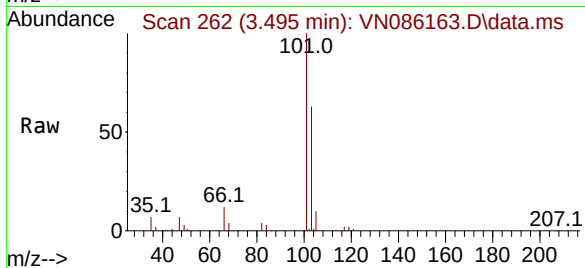
Tgt Ion: 64 Resp: 59308
Ion Ratio Lower Upper
64 100
66 29.6 28.3 42.5





#7
Trichlorofluoromethane
Concen: 41.309 ug/l
RT: 3.495 min Scan# 261
Delta R.T. 0.006 min
Lab File: VN086163.D
Acq: 28 Mar 2025 20:18

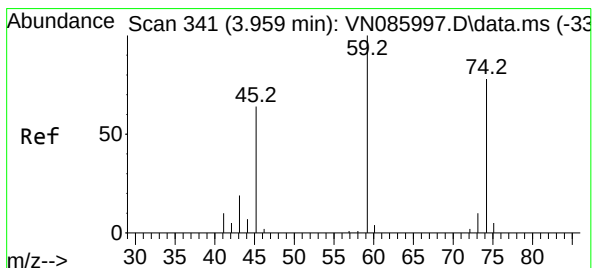
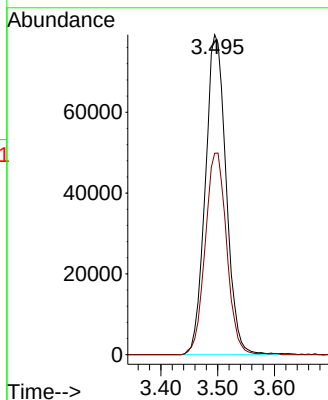
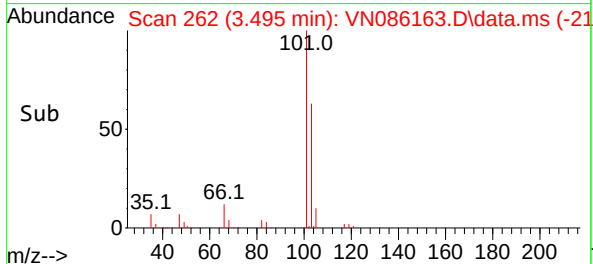
Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-001-01MS



Tgt Ion:101 Resp: 20081
Ion Ratio Lower Upper
101 100
103 63.0 51.7 77.5

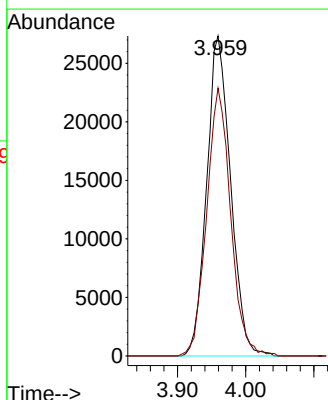
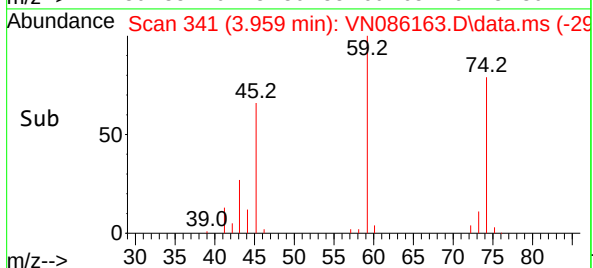
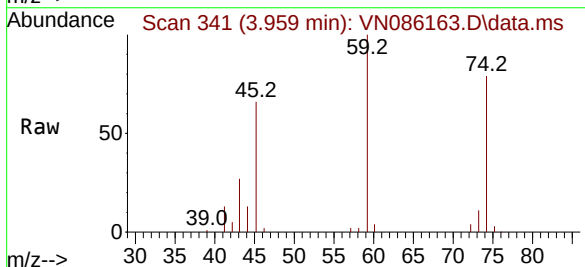
Manual Integrations
APPROVED

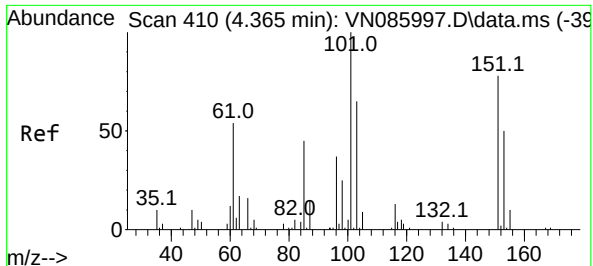
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#8
Diethyl Ether
Concen: 44.919 ug/l
RT: 3.959 min Scan# 341
Delta R.T. -0.000 min
Lab File: VN086163.D
Acq: 28 Mar 2025 20:18

Tgt Ion: 74 Resp: 66847
Ion Ratio Lower Upper
74 100
45 83.9 38.0 113.9





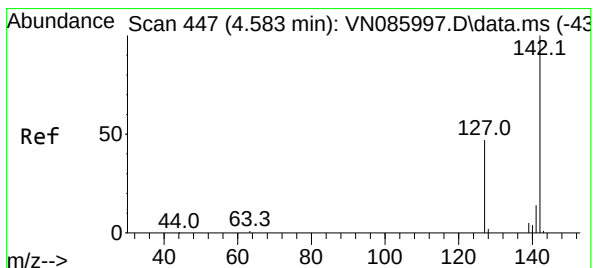
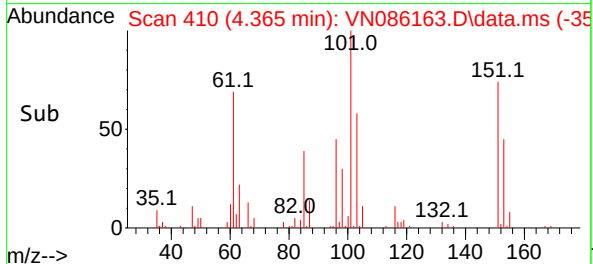
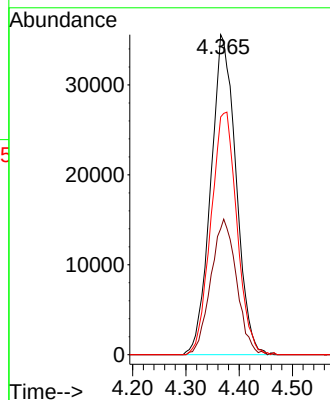
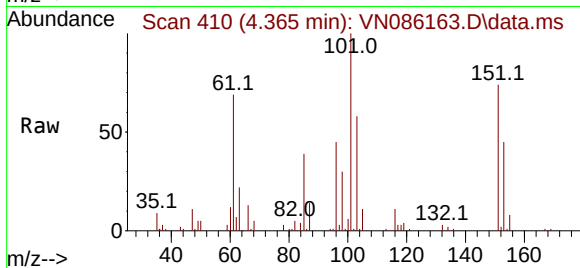
#9
1,1,2-Trichlorotrifluoroethane
Concen: 45.338 ug/l
RT: 4.365 min Scan# 410
Delta R.T. -0.000 min
Lab File: VN086163.D
Acq: 28 Mar 2025 20:18

Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-001-01MS

Tgt Ion:101 Resp: 117134
Ion Ratio Lower Upper
101 100
85 43.2 36.5 54.7
151 77.9 63.4 95.0

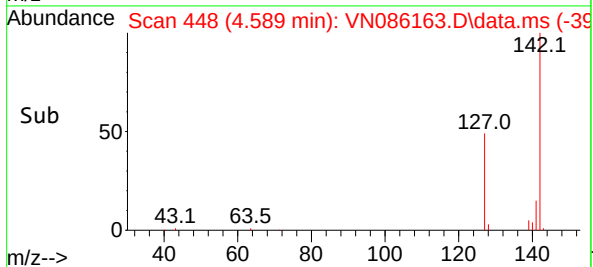
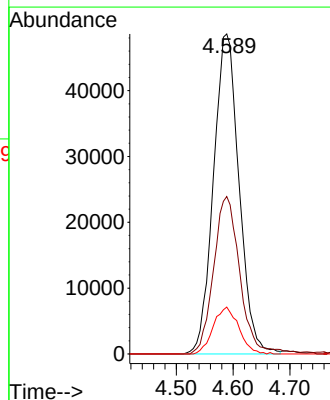
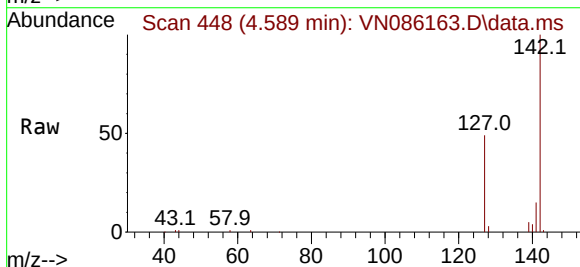
Manual Integrations
APPROVED

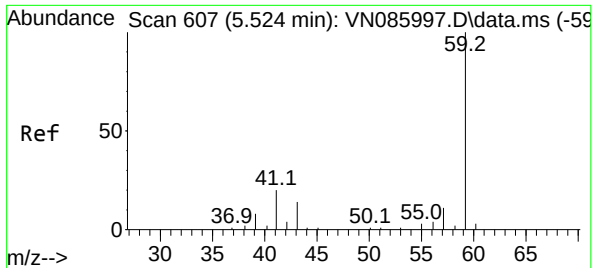
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#10
Methyl Iodide
Concen: 45.203 ug/l
RT: 4.589 min Scan# 448
Delta R.T. 0.006 min
Lab File: VN086163.D
Acq: 28 Mar 2025 20:18

Tgt Ion:142 Resp: 152174
Ion Ratio Lower Upper
142 100
127 49.2 37.5 56.3
141 14.6 11.0 16.6





#11

Tert butyl alcohol

Concen: 172.226 ug/l

RT: 5.512 min Scan# 607

Delta R.T. -0.012 min

Lab File: VN086163.D

Acq: 28 Mar 2025 20:18

Instrument :

MSVOA_N

ClientSampleId :

P001-BBDGA-001-01MS

Tgt Ion: 59 Resp: 76034

Ion Ratio Lower Upper

59 100

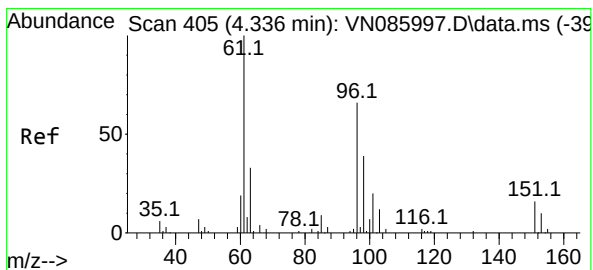
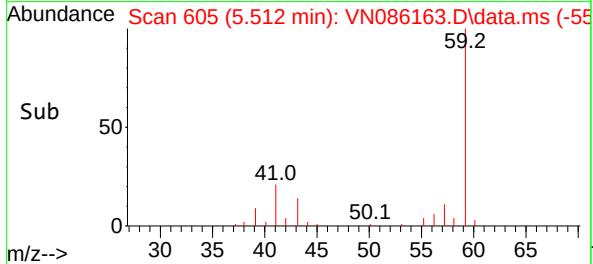
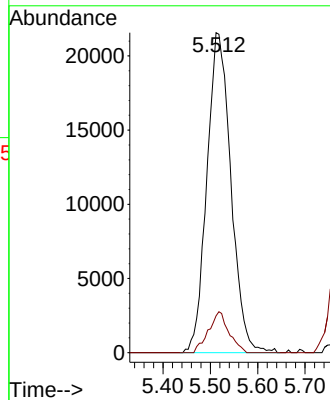
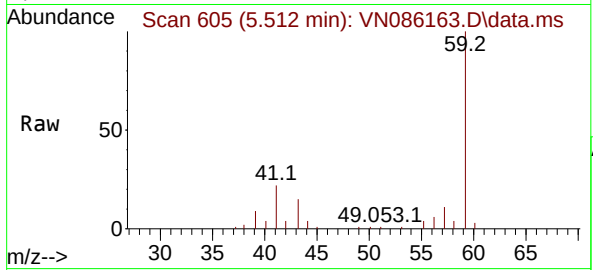
57 10.8 7.9 11.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/31/2025

Supervised By :Mahesh Dadoda 03/31/2025



#12

1,1-Dichloroethene

Concen: 45.852 ug/l

RT: 4.342 min Scan# 406

Delta R.T. 0.006 min

Lab File: VN086163.D

Acq: 28 Mar 2025 20:18

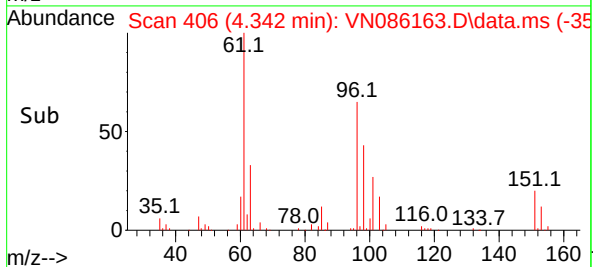
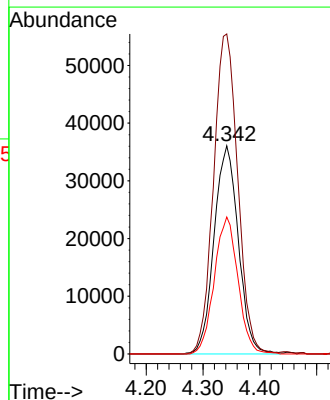
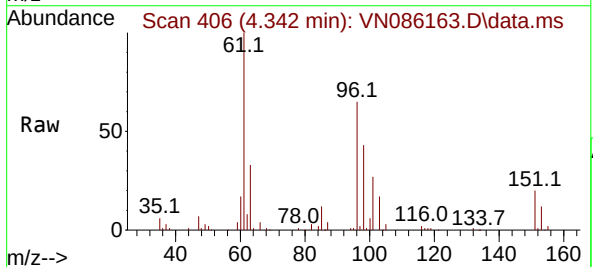
Tgt Ion: 96 Resp: 106968

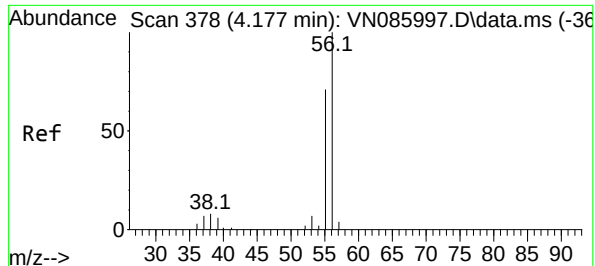
Ion Ratio Lower Upper

96 100

61 153.7 120.5 180.7

98 65.8 47.4 71.0





#13

Acrolein

Concen: 176.858 ug/l

RT: 4.177 min Scan# 31

Delta R.T. -0.000 min

Lab File: VN086163.D

Acq: 28 Mar 2025 20:18

Instrument :

MSVOA_N

ClientSampleId :

P001-BBDGA-001-01MS

Tgt Ion: 56 Resp: 8327

Ion Ratio Lower Upper

56 100

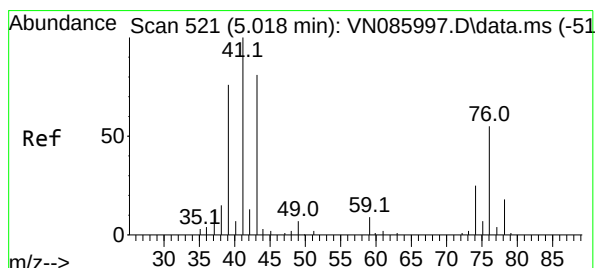
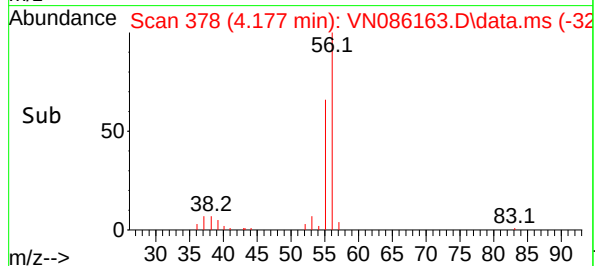
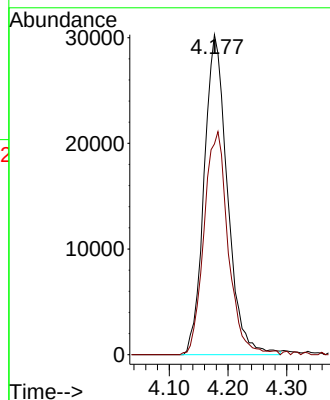
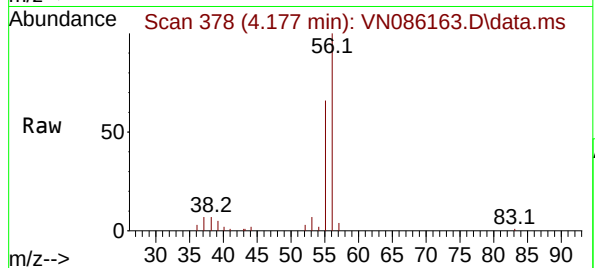
55 72.3 55.1 82.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/31/2025

Supervised By :Mahesh Dadoda 03/31/2025



#14

Allyl chloride

Concen: 44.926 ug/l

RT: 5.024 min Scan# 522

Delta R.T. 0.006 min

Lab File: VN086163.D

Acq: 28 Mar 2025 20:18

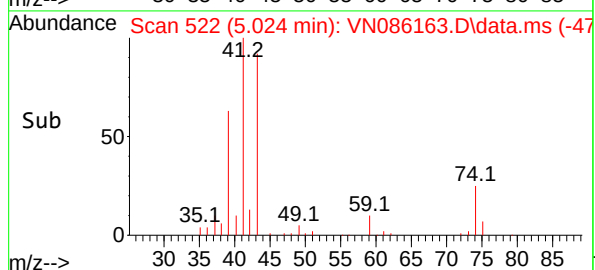
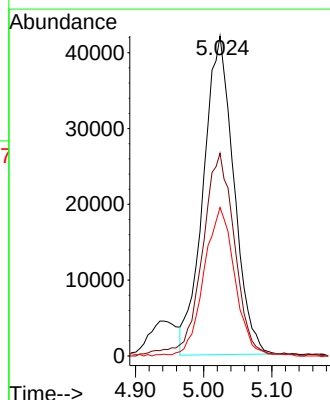
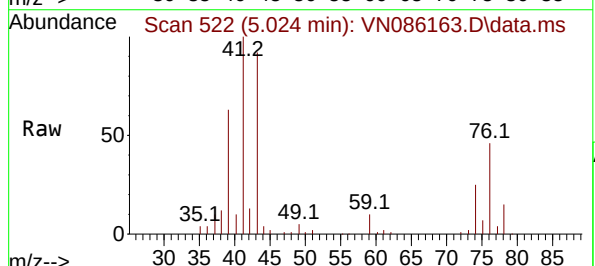
Tgt Ion: 41 Resp: 130753

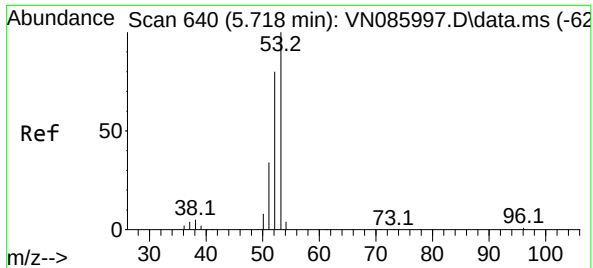
Ion Ratio Lower Upper

41 100

39 68.0 55.5 83.3

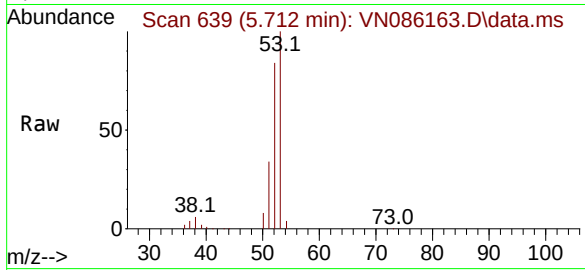
76 47.4 39.1 58.7





#15
Acrylonitrile
Concen: 230.347 ug/l
RT: 5.712 min Scan# 61
Delta R.T. -0.006 min
Lab File: VN086163.D
Acq: 28 Mar 2025 20:18

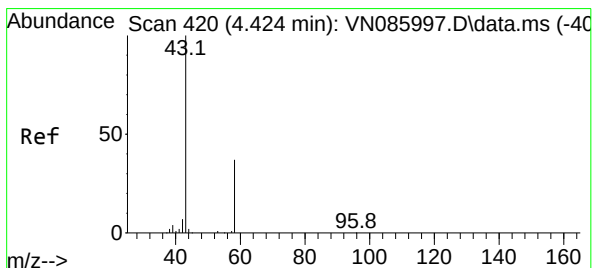
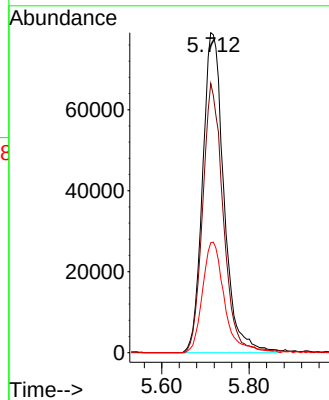
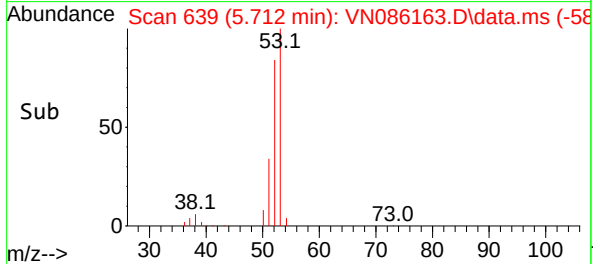
Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-001-01MS



Tgt Ion: 53 Resp: 268570
Ion Ratio Lower Upper
53 100
52 80.6 63.9 95.9
51 35.6 27.1 40.7

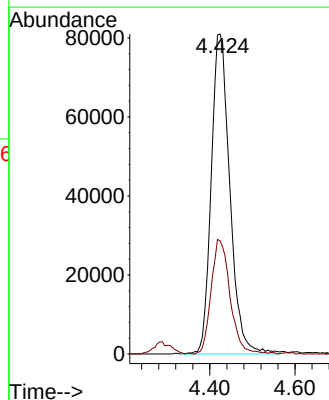
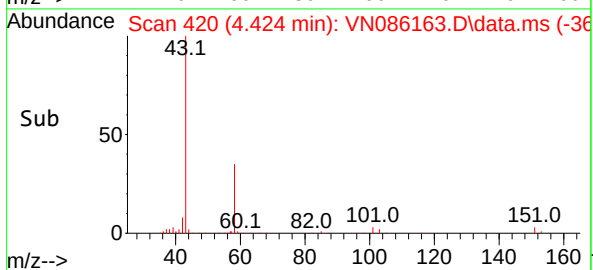
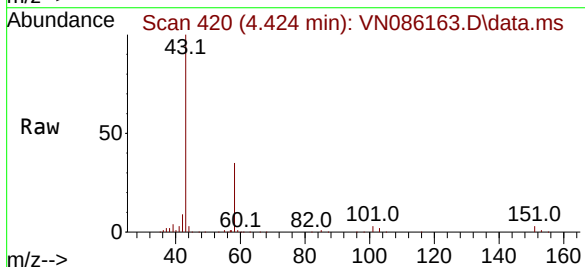
Manual Integrations
APPROVED

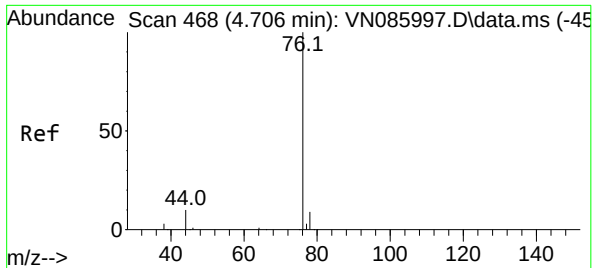
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#16
Acetone
Concen: 258.574 ug/l
RT: 4.424 min Scan# 420
Delta R.T. -0.000 min
Lab File: VN086163.D
Acq: 28 Mar 2025 20:18

Tgt Ion: 43 Resp: 246325
Ion Ratio Lower Upper
43 100
58 35.2 29.4 44.2





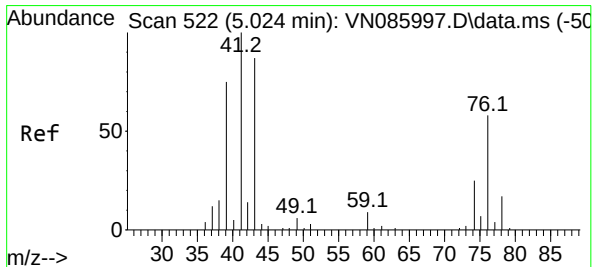
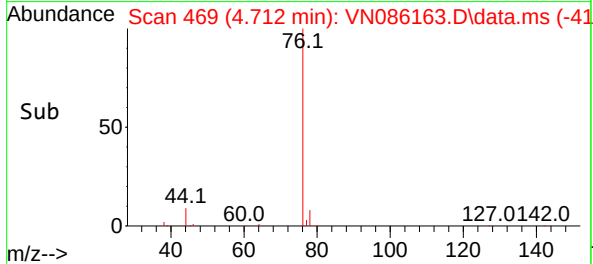
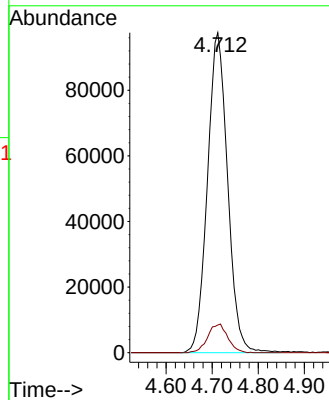
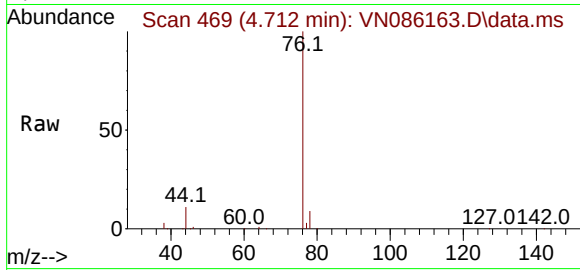
#17
Carbon Disulfide
Concen: 38.696 ug/l
RT: 4.712 min Scan# 469
Delta R.T. 0.006 min
Lab File: VN086163.D
Acq: 28 Mar 2025 20:18

Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-001-01MS

Tgt Ion: 76 Resp: 29688
Ion Ratio Lower Upper
76 100
78 8.7 7.4 11.2

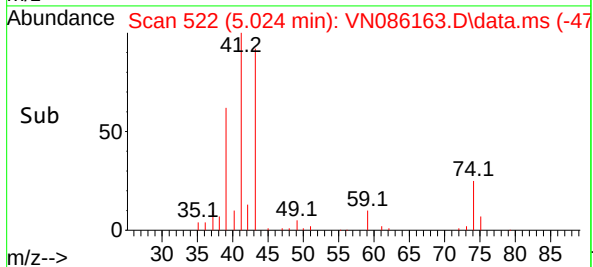
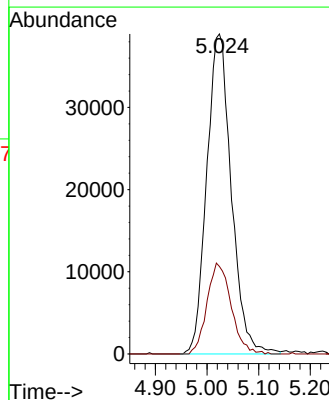
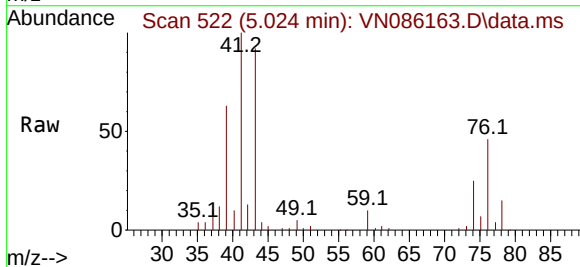
Manual Integrations
APPROVED

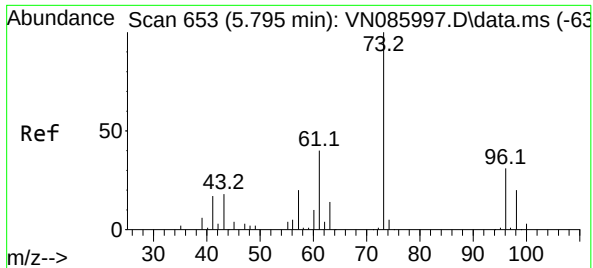
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#18
Methyl Acetate
Concen: 54.566 ug/l
RT: 5.024 min Scan# 522
Delta R.T. -0.000 min
Lab File: VN086163.D
Acq: 28 Mar 2025 20:18

Tgt Ion: 43 Resp: 128611
Ion Ratio Lower Upper
43 100
74 27.9 23.9 35.9





#19

Methyl tert-butyl Ether

Concen: 45.781 ug/l

RT: 5.789 min Scan# 61

Delta R.T. -0.006 min

Lab File: VN086163.D

Acq: 28 Mar 2025 20:18

Instrument :

MSVOA_N

ClientSampleId :

P001-BBDGA-001-01MS

Tgt Ion: 73 Resp: 34998

Ion Ratio Lower Upper

73 100

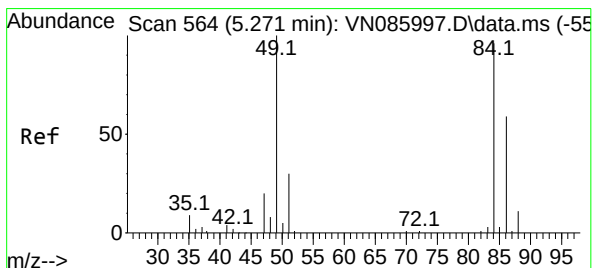
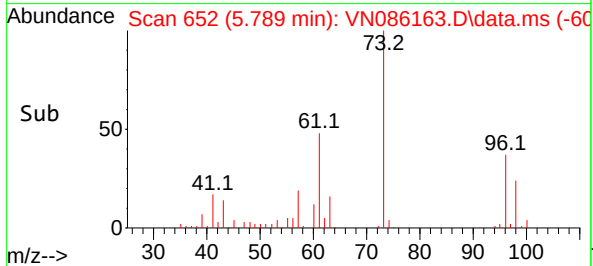
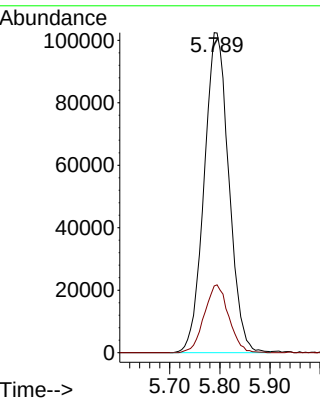
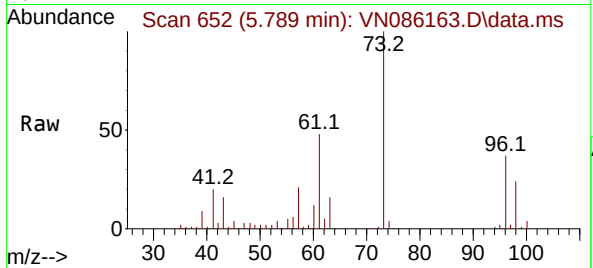
57 20.9 16.1 24.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/31/2025

Supervised By :Mahesh Dadoda 03/31/2025



#20

Methylene Chloride

Concen: 49.250 ug/l

RT: 5.277 min Scan# 565

Delta R.T. 0.006 min

Lab File: VN086163.D

Acq: 28 Mar 2025 20:18

Tgt Ion: 84 Resp: 137253

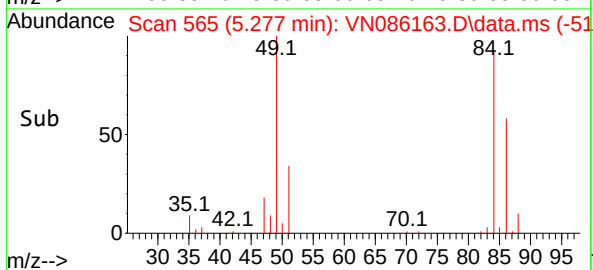
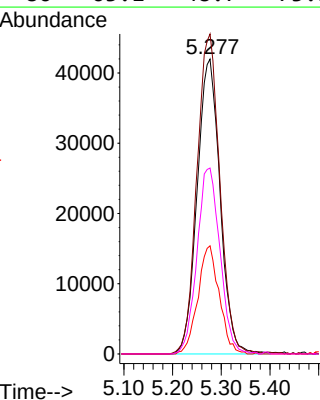
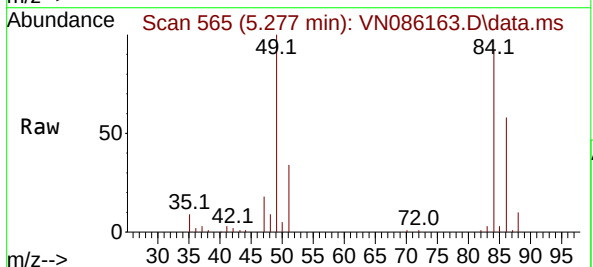
Ion Ratio Lower Upper

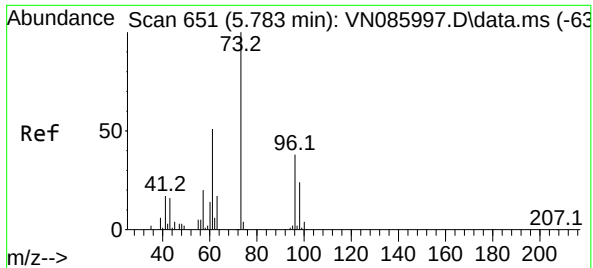
84 100

49 108.5 83.3 124.9

51 36.7 24.8 37.2

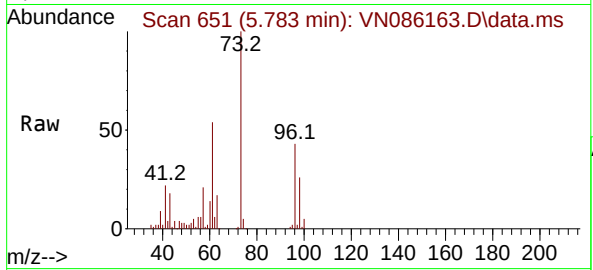
86 63.1 48.7 73.1





#21
trans-1,2-Dichloroethene
Concen: 46.226 ug/l
RT: 5.783 min Scan# 651
Delta R.T. -0.000 min
Lab File: VN086163.D
Acq: 28 Mar 2025 20:18

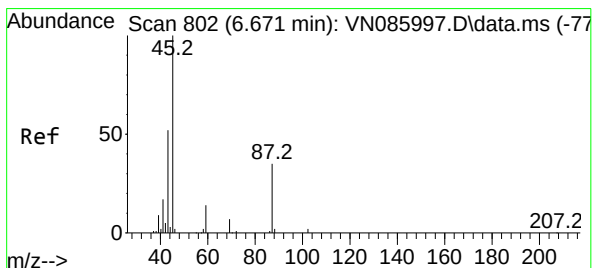
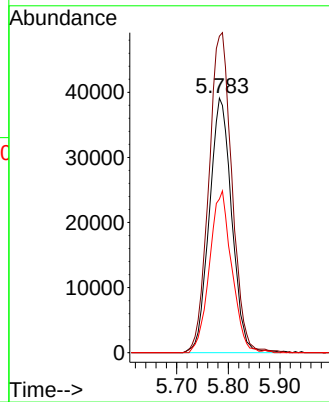
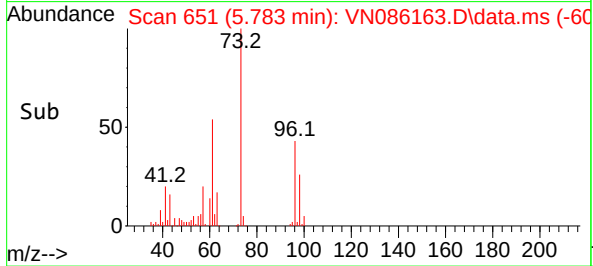
Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-001-01MS



Tgt Ion: 96 Resp: 11785
Ion Ratio Lower Upper
96 100
61 124.4 106.6 160.0
98 60.4 50.0 75.0

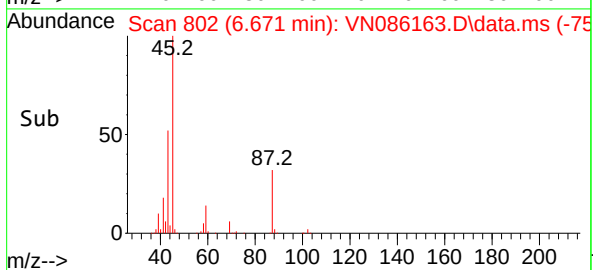
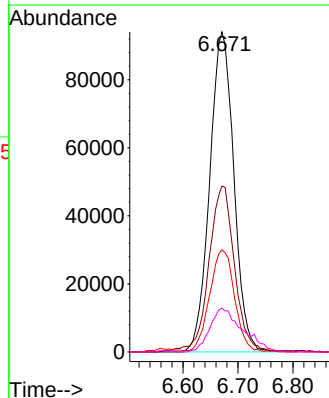
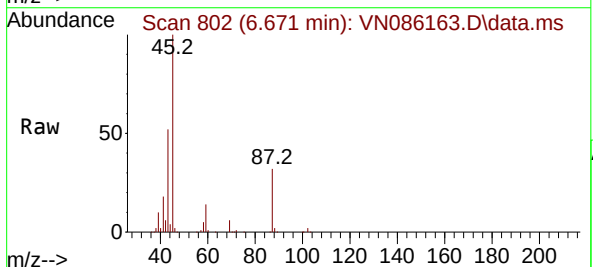
Manual Integrations
APPROVED

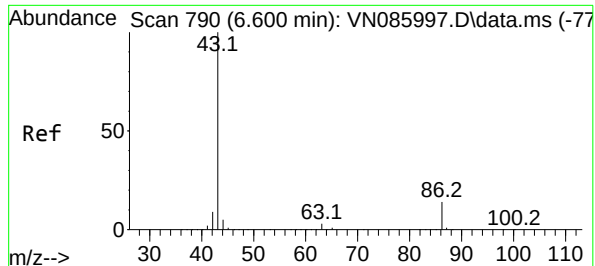
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#22
Diisopropyl ether
Concen: 46.318 ug/l
RT: 6.671 min Scan# 802
Delta R.T. -0.000 min
Lab File: VN086163.D
Acq: 28 Mar 2025 20:18

Tgt Ion: 45 Resp: 287268
Ion Ratio Lower Upper
45 100
43 51.4 41.2 61.8
87 31.9 28.5 42.7
59 13.7 11.2 16.8





#23

Vinyl Acetate

Concen: 33.645 ug/l

RT: 6.671 min Scan# 802

Delta R.T. 0.070 min

Lab File: VN086163.D

Acq: 28 Mar 2025 20:18

Instrument :

MSVOA_N

ClientSampleId :

P001-BBDGA-001-01MS

Tgt Ion: 43 Resp: 15818

Ion Ratio Lower Upper

43 100

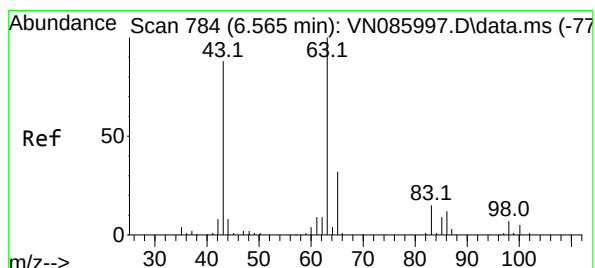
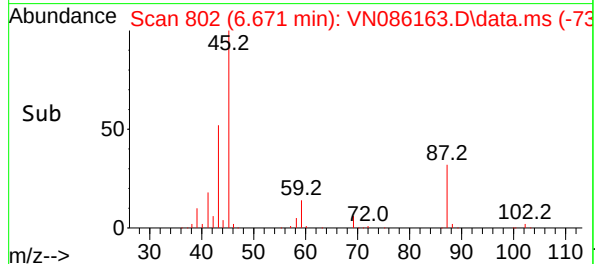
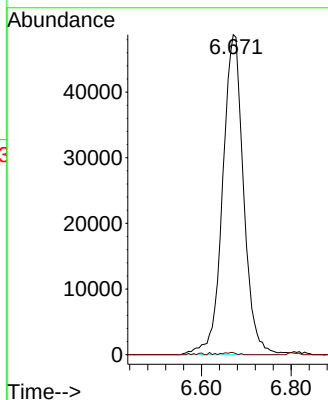
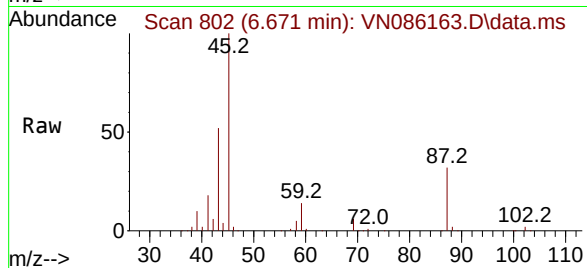
86 0.7 11.2 16.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/31/2025

Supervised By :Mahesh Dadoda 03/31/2025



#24

1,1-Dichloroethane

Concen: 46.500 ug/l

RT: 6.565 min Scan# 784

Delta R.T. -0.000 min

Lab File: VN086163.D

Acq: 28 Mar 2025 20:18

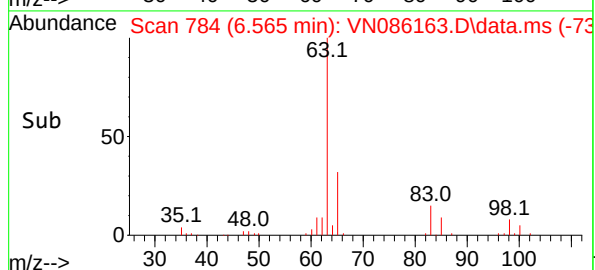
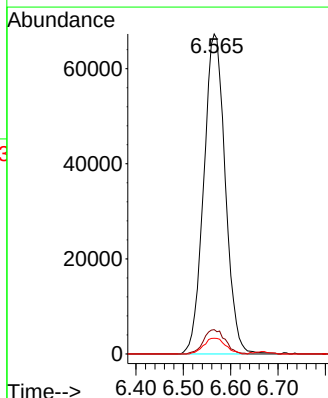
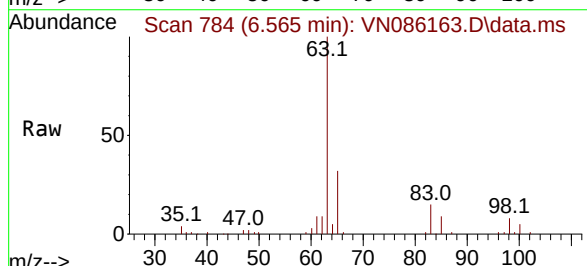
Tgt Ion: 63 Resp: 212075

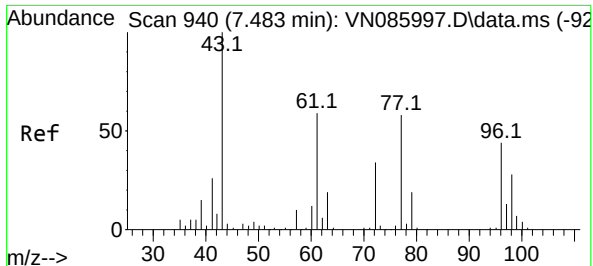
Ion Ratio Lower Upper

63 100

98 7.6 3.6 10.9

100 4.9 2.5 7.5





#25

2-Butanone

Concen: 235.675 ug/l

RT: 7.477 min Scan# 91

Delta R.T. -0.006 min

Lab File: VN086163.D

Acq: 28 Mar 2025 20:18

Instrument :

MSVOA_N

ClientSampleId :

P001-BBDGA-001-01MS

Tgt Ion: 43 Resp: 32395

Ion Ratio Lower Upper

43 100

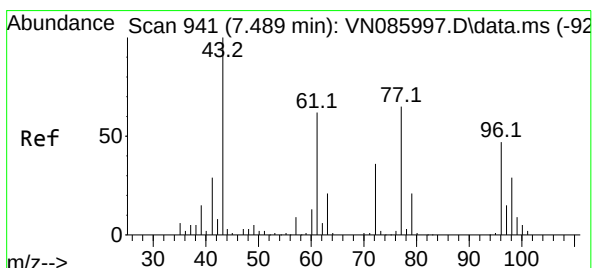
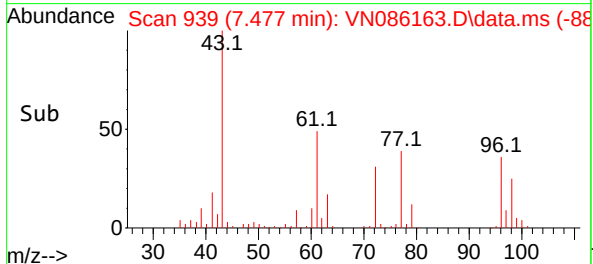
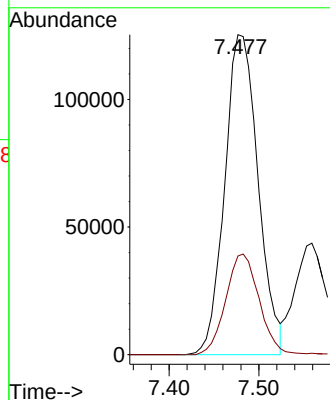
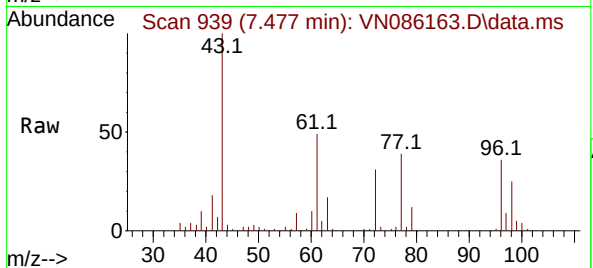
72 30.8 27.4 41.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/31/2025

Supervised By :Mahesh Dadoda 03/31/2025



#26

2,2-Dichloropropane

Concen: 35.418 ug/l

RT: 7.488 min Scan# 941

Delta R.T. -0.000 min

Lab File: VN086163.D

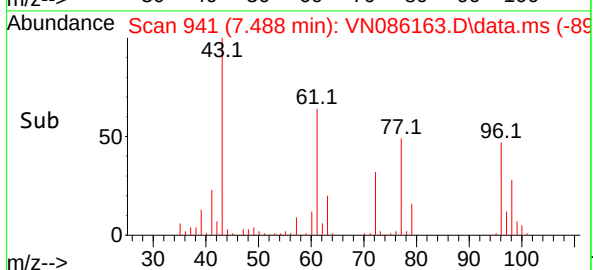
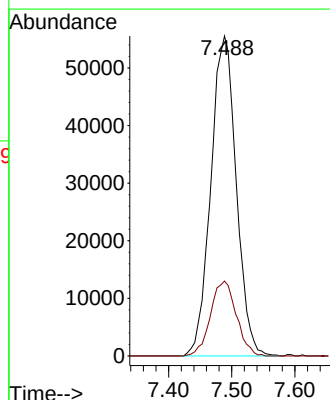
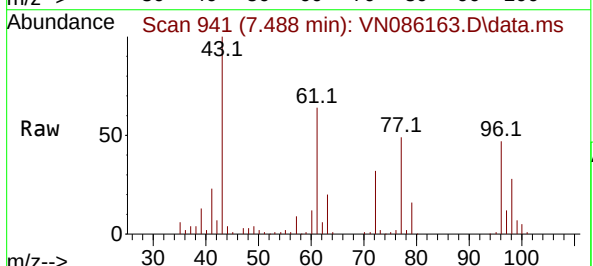
Acq: 28 Mar 2025 20:18

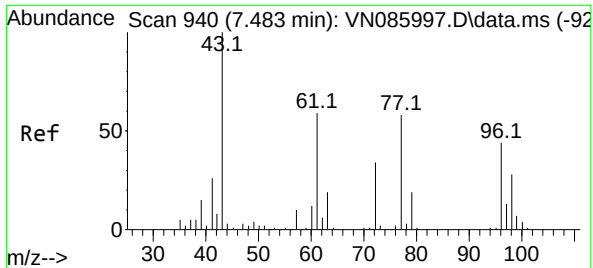
Tgt Ion: 77 Resp: 155514

Ion Ratio Lower Upper

77 100

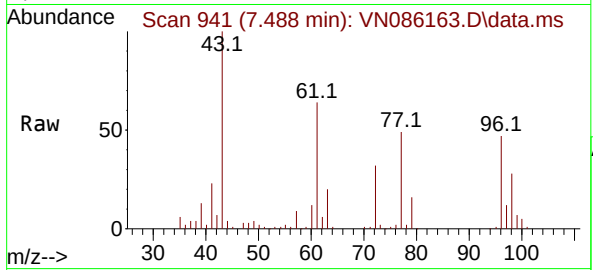
97 23.8 11.2 33.5





#27
cis-1,2-Dichloroethene
Concen: 47.453 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN086163.D
Acq: 28 Mar 2025 20:18

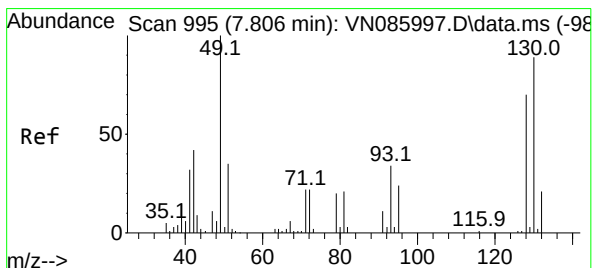
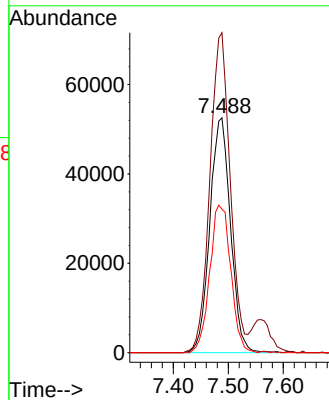
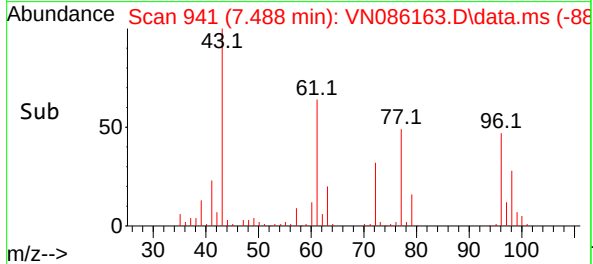
Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-001-01MS



Tgt Ion: 96 Resp: 137479
Ion Ratio Lower Upper
96 100
61 134.3 0.0 272.8
98 63.7 0.0 124.8

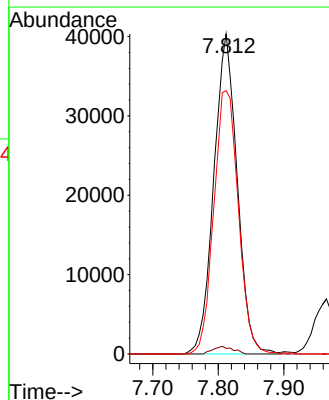
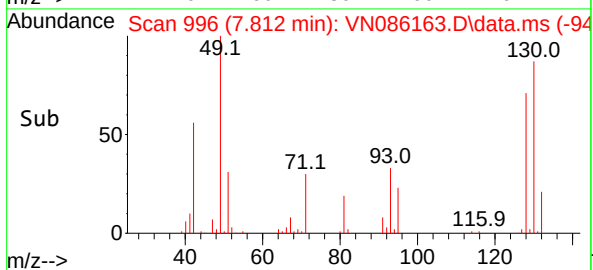
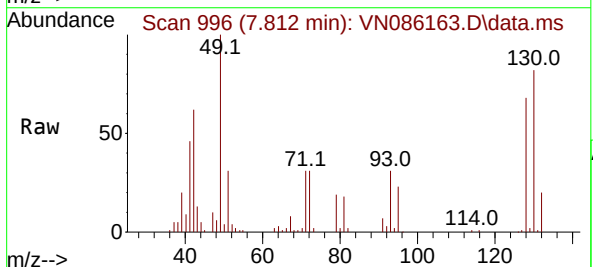
Manual Integrations
APPROVED

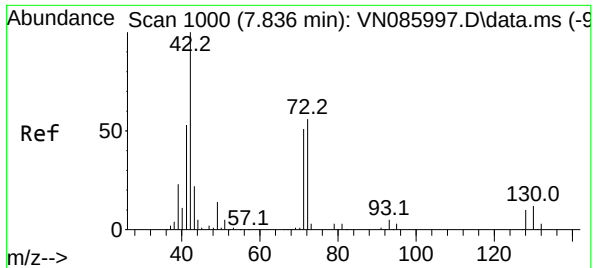
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#28
Bromochloromethane
Concen: 51.534 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.006 min
Lab File: VN086163.D
Acq: 28 Mar 2025 20:18

Tgt Ion: 49 Resp: 99579
Ion Ratio Lower Upper
49 100
129 2.0 0.0 4.2
130 86.6 74.2 111.4





#29

Tetrahydrofuran

Concen: 245.171 ug/l

RT: 7.835 min Scan# 1000

Delta R.T. -0.000 min

Lab File: VN086163.D

Acq: 28 Mar 2025 20:18

Instrument :

MSVOA_N

ClientSampleId :

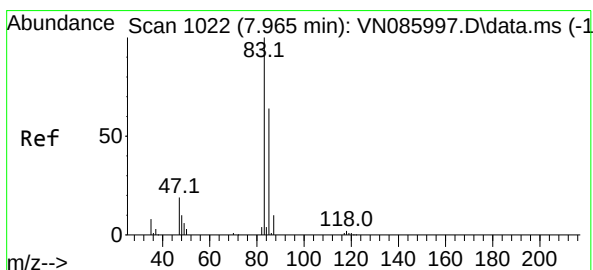
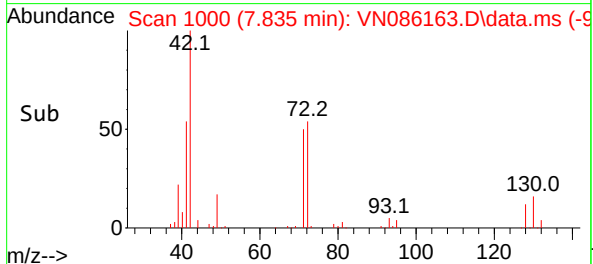
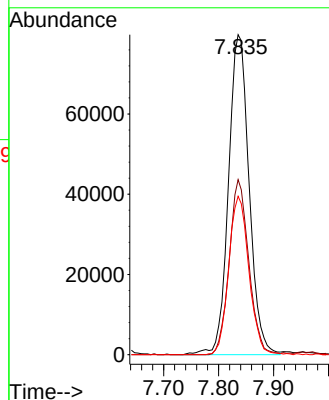
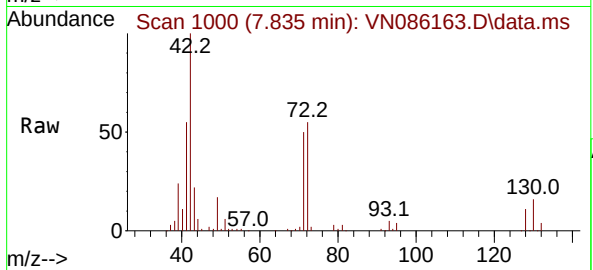
P001-BBDGA-001-01MS

Tgt Ion:	42	Resp:	20805
Ion	Ratio	Lower	Upper
42	100		
72	51.9	45.0	67.4
71	48.4	41.9	62.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/31/2025

Supervised By :Mahesh Dadoda 03/31/2025



#30

Chloroform

Concen: 46.262 ug/l

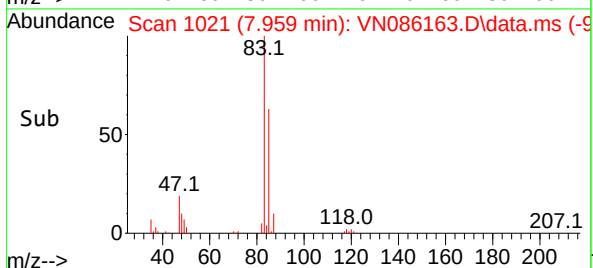
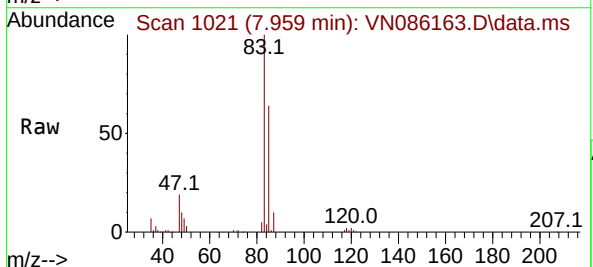
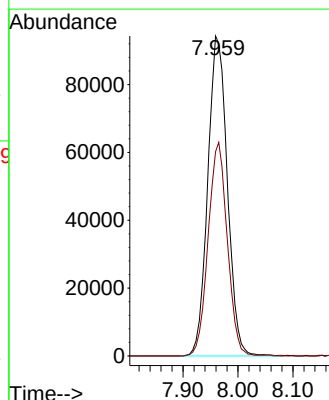
RT: 7.959 min Scan# 1021

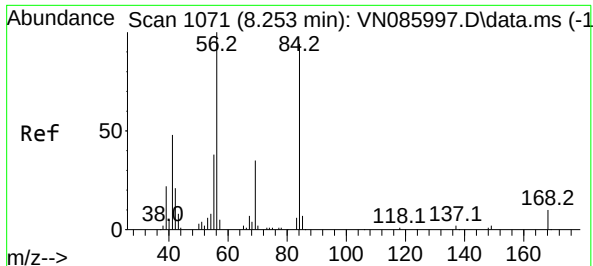
Delta R.T. -0.006 min

Lab File: VN086163.D

Acq: 28 Mar 2025 20:18

Tgt Ion:	83	Resp:	233212
Ion	Ratio	Lower	Upper
83	100		
85	63.8	51.5	77.3





#31

Cyclohexane

Concen: 46.468 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. -0.000 min

Lab File: VN086163.D

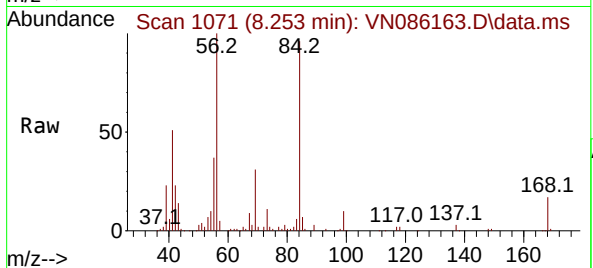
Acq: 28 Mar 2025 20:18

Instrument :

MSVOA_N

ClientSampleId :

P001-BBDGA-001-01MS



Tgt Ion: 56 Resp: 180539

Ion Ratio Lower Upper

56 100

69 31.1 28.0 42.0

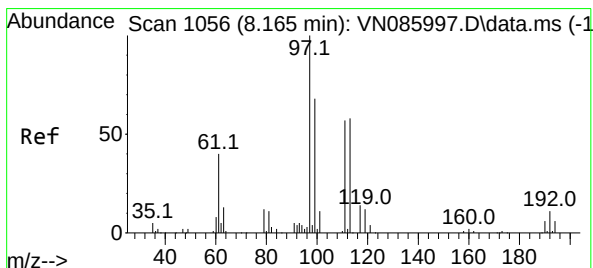
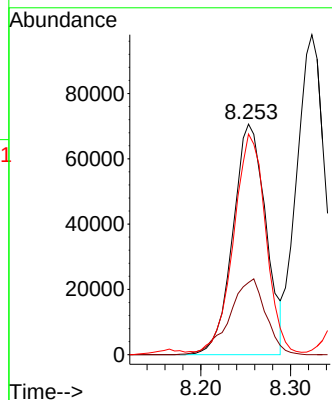
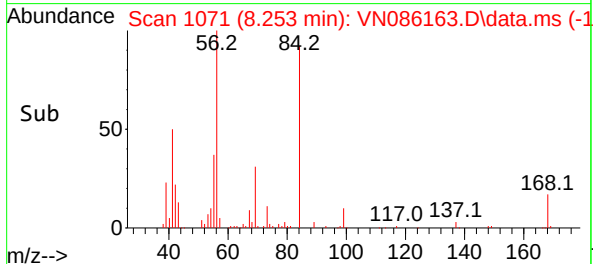
84 94.0 75.0 112.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/31/2025

Supervised By :Mahesh Dadoda 03/31/2025



#32

1,1,1-Trichloroethane

Concen: 44.027 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086163.D

Acq: 28 Mar 2025 20:18

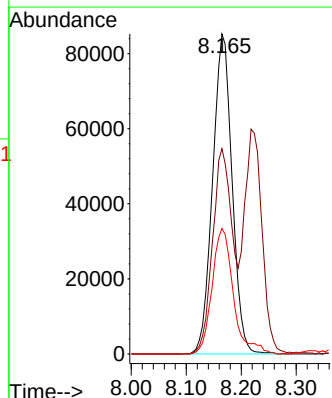
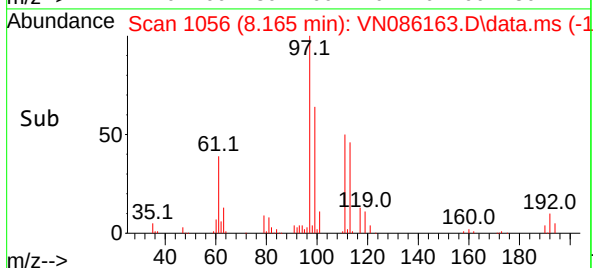
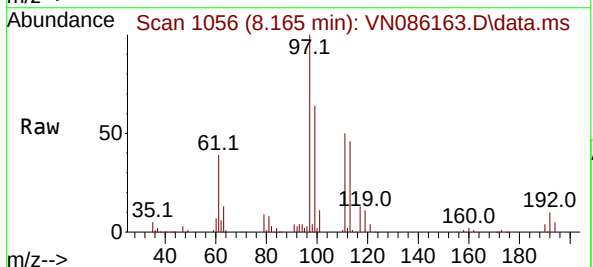
Tgt Ion: 97 Resp: 210092

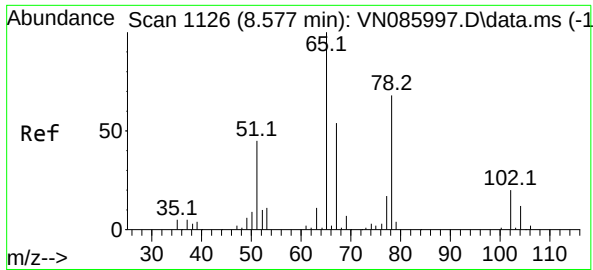
Ion Ratio Lower Upper

97 100

99 65.5 52.8 79.2

61 42.8 33.6 50.4





#33

1,2-Dichloroethane-d4

Concen: 43.798 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN086163.D

Acq: 28 Mar 2025 20:18

Instrument :

MSVOA_N

ClientSampleId :

P001-BBDGA-001-01MS

Tgt Ion: 65 Resp: 136570

Ion Ratio Lower Upper

65 100

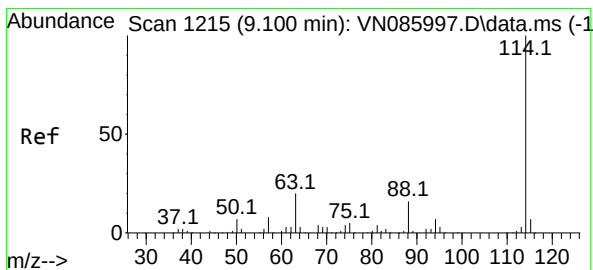
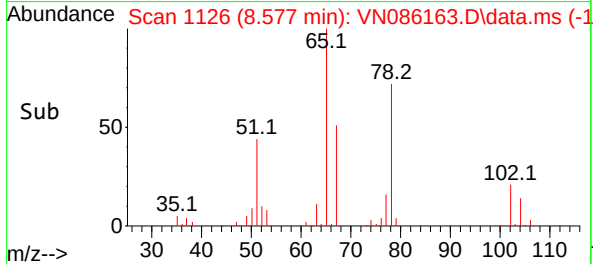
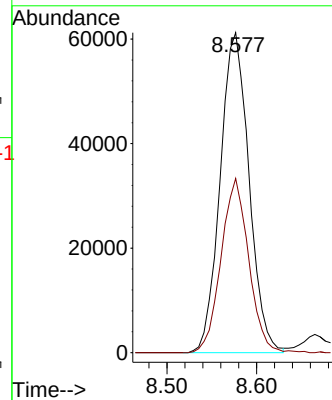
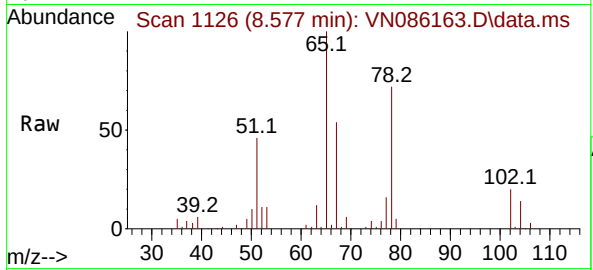
67 52.3 0.0 102.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/31/2025

Supervised By :Mahesh Dadoda 03/31/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN086163.D

Acq: 28 Mar 2025 20:18

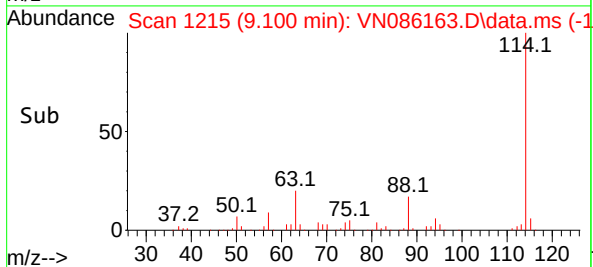
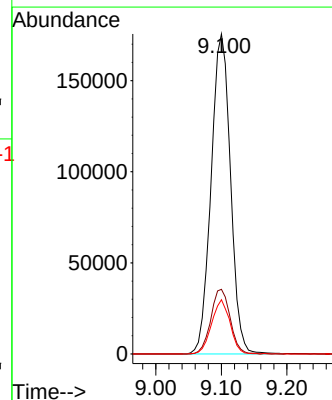
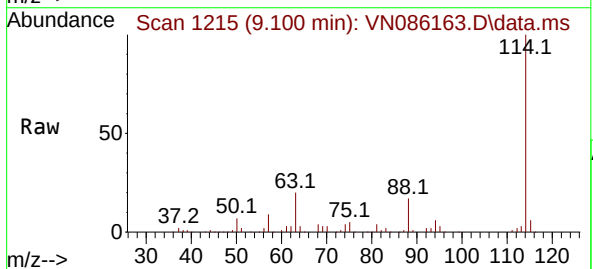
Tgt Ion:114 Resp: 361019

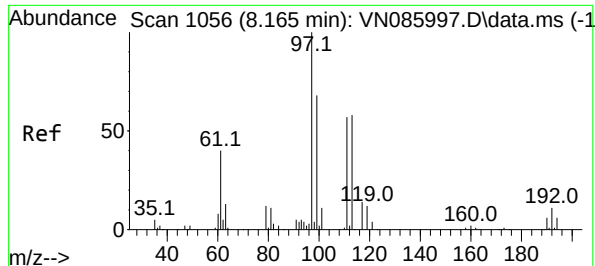
Ion Ratio Lower Upper

114 100

63 20.2 0.0 39.6

88 17.0 0.0 32.6





#35

Dibromofluoromethane

Concen: 38.957 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086163.D

Acq: 28 Mar 2025 20:18

Instrument :

MSVOA_N

ClientSampleId :

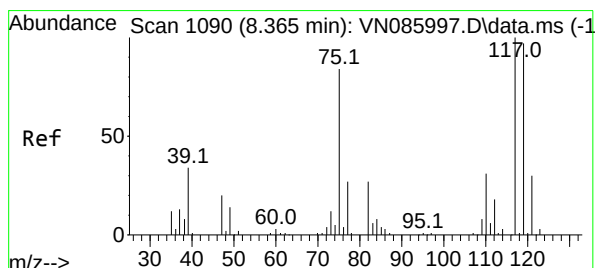
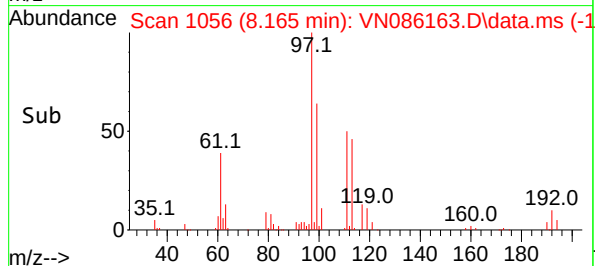
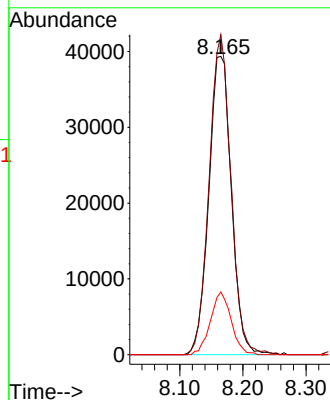
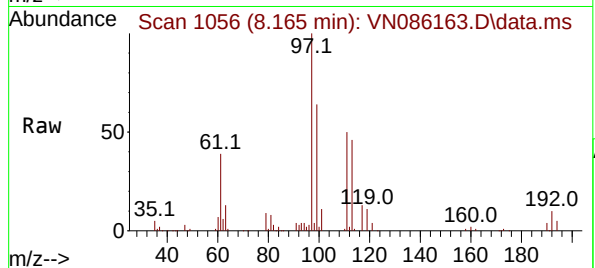
P001-BBDGA-001-01MS

Tgt Ion:	113	Resp:	9816
Ion	Ratio	Lower	Upper
113	100		
111	102.9	81.8	122.8
192	19.3	15.9	23.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/31/2025

Supervised By :Mahesh Dadoda 03/31/2025



#36

1,1-Dichloropropene

Concen: 47.547 ug/l

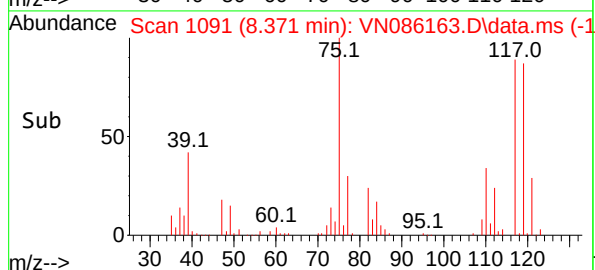
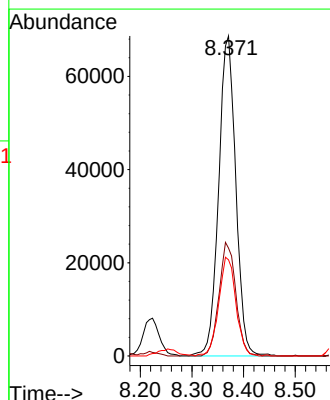
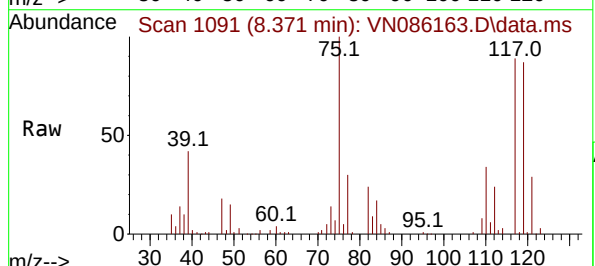
RT: 8.371 min Scan# 1091

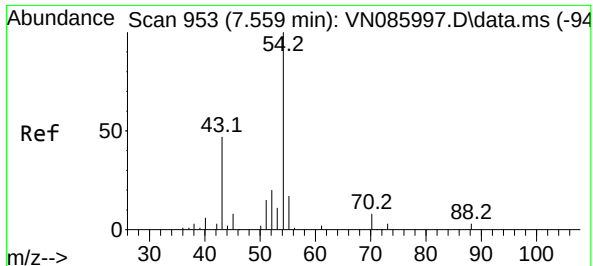
Delta R.T. 0.006 min

Lab File: VN086163.D

Acq: 28 Mar 2025 20:18

Tgt Ion:	75	Resp:	157763
Ion	Ratio	Lower	Upper
75	100		
110	35.0	17.8	53.3
77	31.1	25.0	37.4





#37

Ethyl Acetate

Concen: 39.942 ug/l

RT: 7.559 min Scan# 91

Delta R.T. -0.000 min

Lab File: VN086163.D

Acq: 28 Mar 2025 20:18

Instrument :

MSVOA_N

ClientSampleId :

P001-BBDGA-001-01MS

Tgt Ion: 43 Resp: 111808

Ion Ratio Lower Upper

43

61

70

100

15.7

12.7

13.0

11.0

19.4

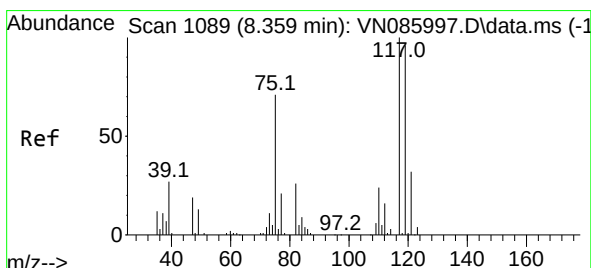
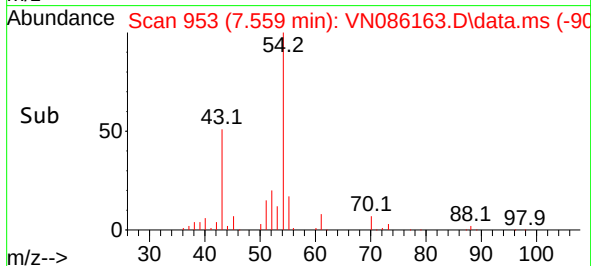
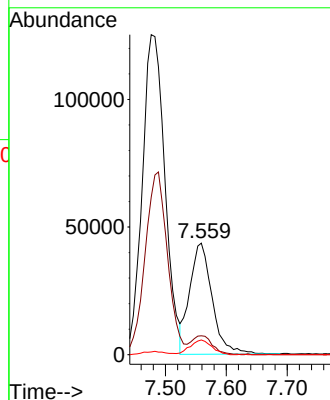
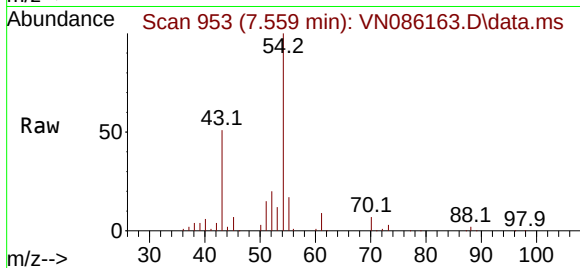
16.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/31/2025

Supervised By :Mahesh Dadoda 03/31/2025



#38

Carbon Tetrachloride

Concen: 44.306 ug/l

RT: 8.359 min Scan# 1089

Delta R.T. -0.000 min

Lab File: VN086163.D

Acq: 28 Mar 2025 20:18

Tgt Ion:117 Resp: 193294

Ion Ratio Lower Upper

117

119

121

100

94.9

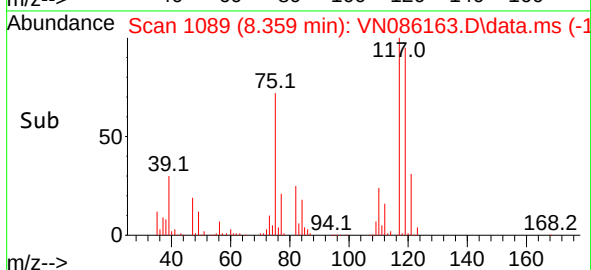
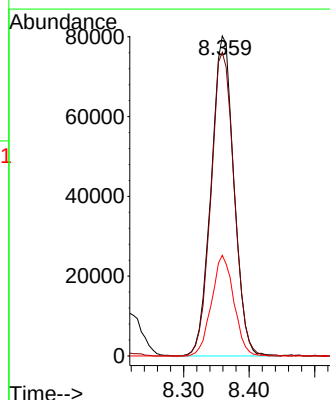
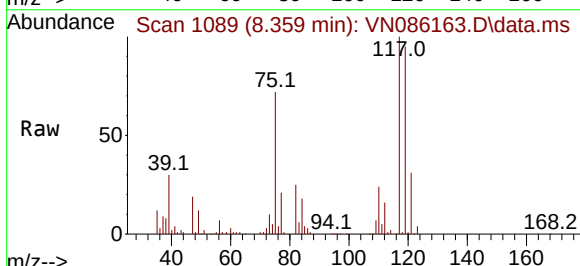
31.4

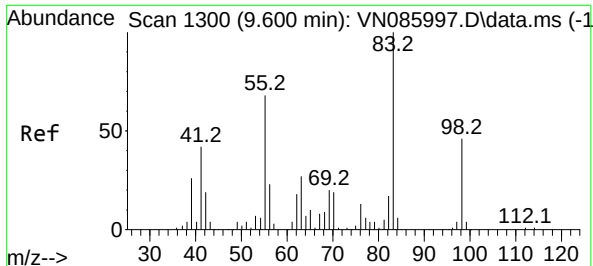
77.0

25.6

115.4

38.4





#39

Methylcyclohexane

Concen: 47.270 ug/l

RT: 9.600 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN086163.D

Acq: 28 Mar 2025 20:18

Instrument :

MSVOA_N

ClientSampleId :

P001-BBDGA-001-01MS

Tgt Ion: 83 Resp: 155609

Ion Ratio Lower Upper

83 100

55 71.3 54.2 81.2

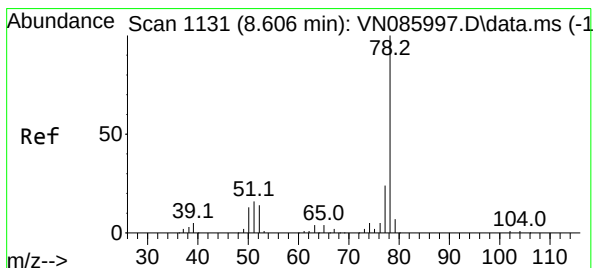
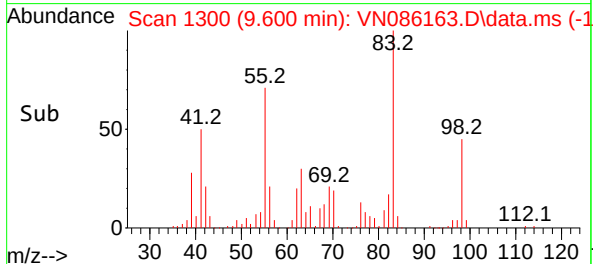
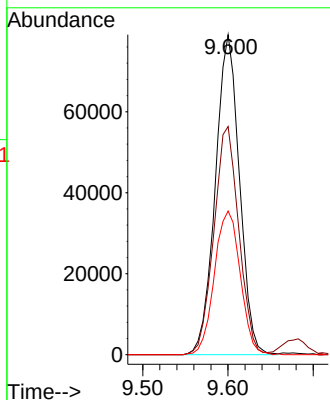
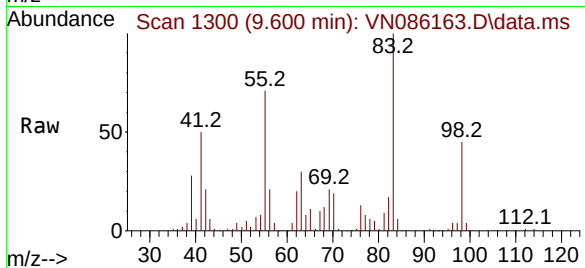
98 44.9 37.1 55.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/31/2025

Supervised By :Mahesh Dadoda 03/31/2025



#40

Benzene

Concen: 48.708 ug/l

RT: 8.606 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VN086163.D

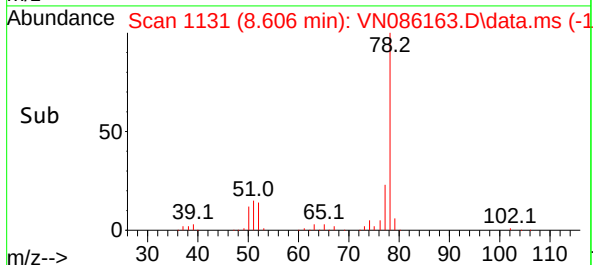
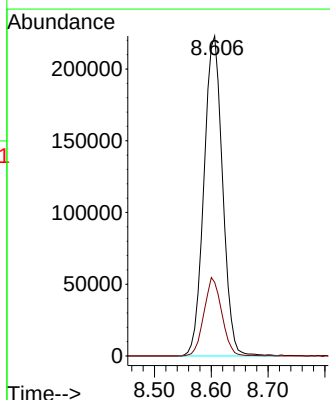
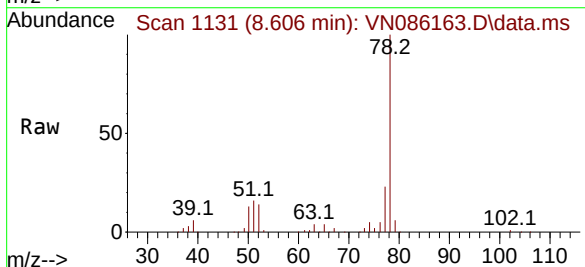
Acq: 28 Mar 2025 20:18

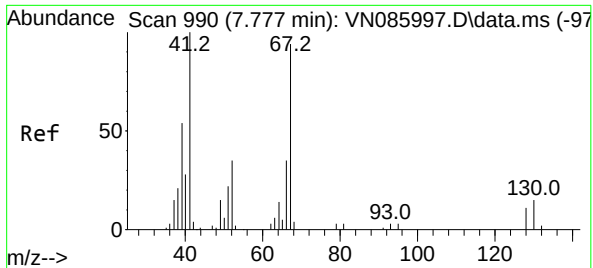
Tgt Ion: 78 Resp: 507344

Ion Ratio Lower Upper

78 100

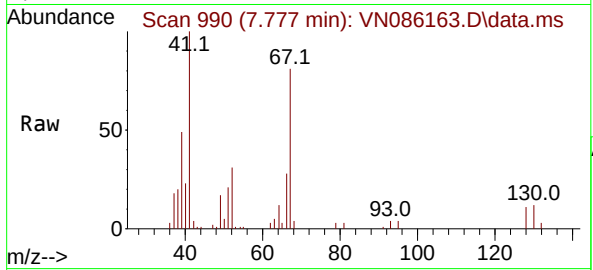
77 23.0 18.9 28.3





#41
Methacrylonitrile
Concen: 53.150 ug/l
RT: 7.777 min Scan# 990
Delta R.T. -0.000 min
Lab File: VN086163.D
Acq: 28 Mar 2025 20:18

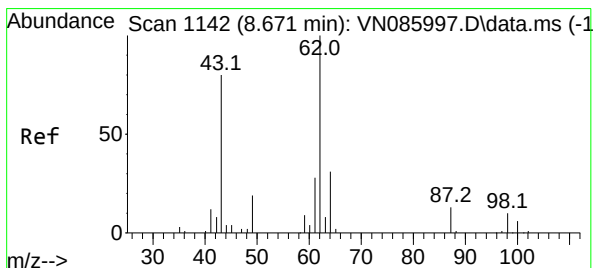
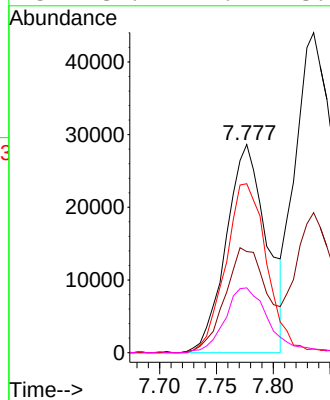
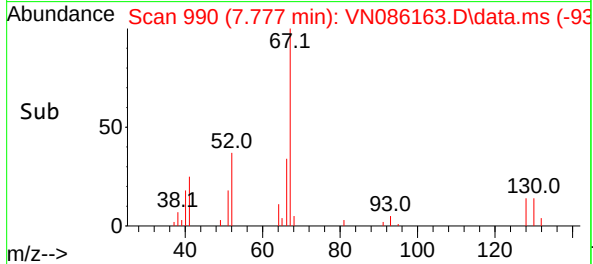
Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-001-01MS



Tgt Ion: 41 Resp: 7104
Ion Ratio Lower Upper
41 100
39 52.8 46.2 69.2
67 82.9 75.9 113.9
52 34.1 29.2 43.8

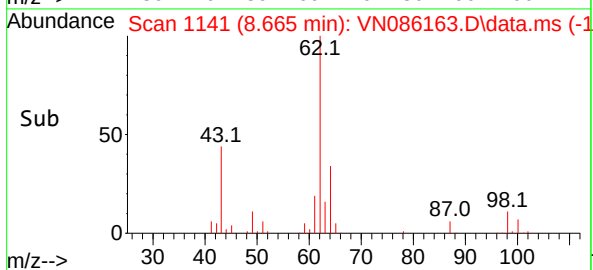
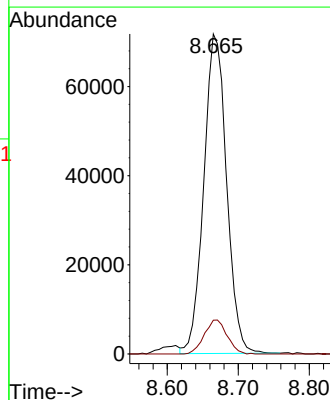
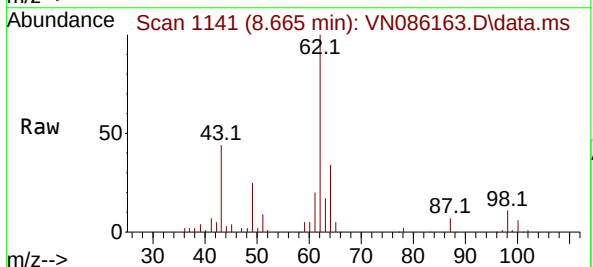
Manual Integrations
APPROVED

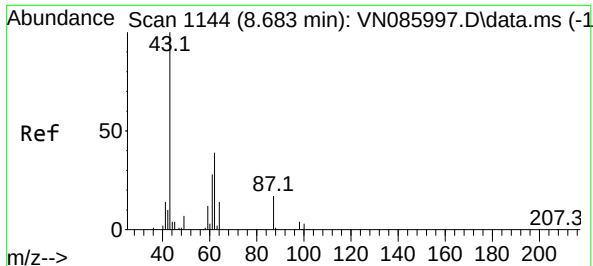
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#42
1,2-Dichloroethane
Concen: 44.073 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. -0.006 min
Lab File: VN086163.D
Acq: 28 Mar 2025 20:18

Tgt Ion: 62 Resp: 159959
Ion Ratio Lower Upper
62 100
98 10.6 0.0 18.6





#43

Isopropyl Acetate

Concen: 34.817 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.006 min

Lab File: VN086163.D

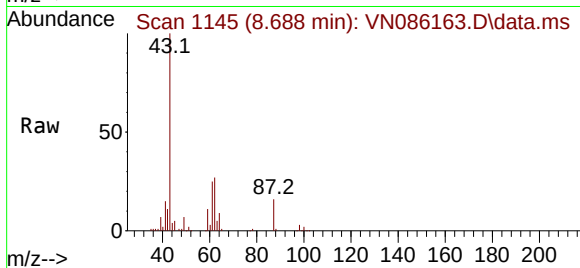
Acq: 28 Mar 2025 20:18

Instrument :

MSVOA_N

ClientSampleId :

P001-BBDGA-001-01MS

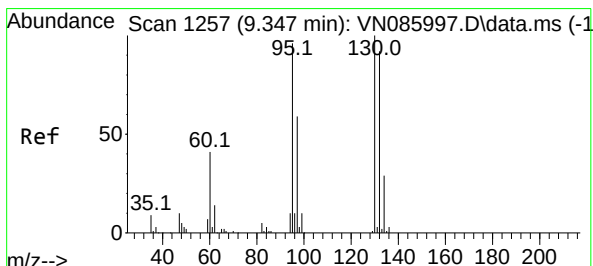
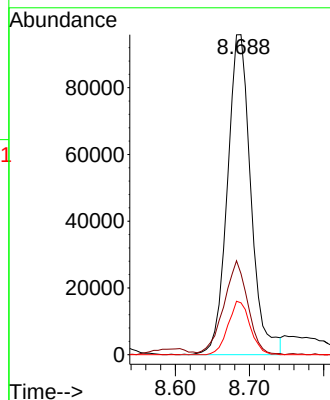
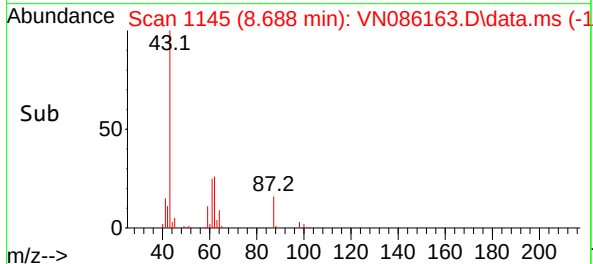


Tgt Ion:	43	Resp:	21119
Ion	Ratio	Lower	Upper
43	100		
61	30.1	25.0	37.6
87	15.7	13.0	19.4

Manual Integrations
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Reviewed By :John Carlone 03/31/2025

Supervised By :Mahesh Dadoda 03/31/2025



#44

Trichloroethene

Concen: 64.863 ug/l

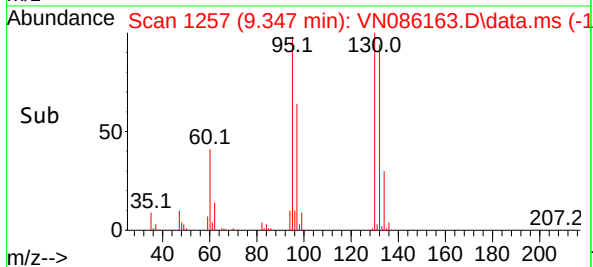
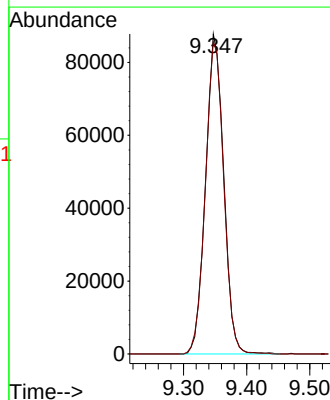
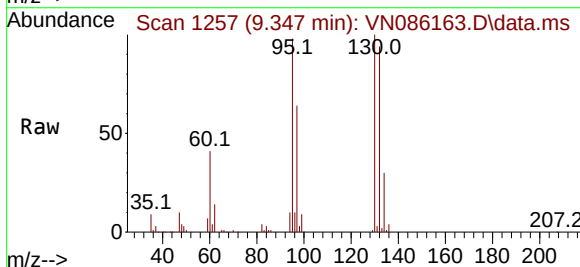
RT: 9.347 min Scan# 1257

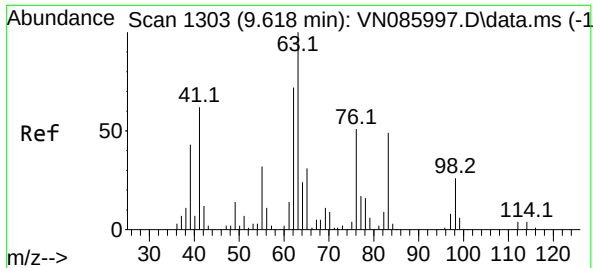
Delta R.T. -0.000 min

Lab File: VN086163.D

Acq: 28 Mar 2025 20:18

Tgt Ion:	130	Resp:	175105
Ion	Ratio	Lower	Upper
130	100		
95	97.5	0.0	191.6





#45

1,2-Dichloropropane

Concen: 51.632 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. -0.000 min

Lab File: VN086163.D

Acq: 28 Mar 2025 20:18

Instrument :

MSVOA_N

ClientSampleId :

P001-BBDGA-001-01MS

Tgt Ion: 63 Resp: 122320

Ion Ratio Lower Upper

63 100

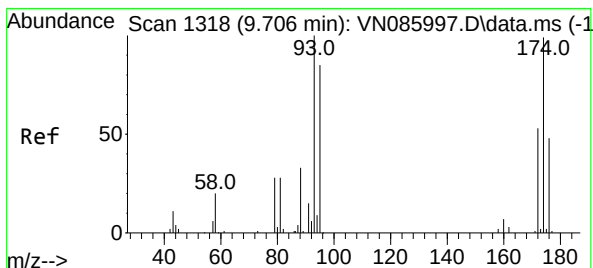
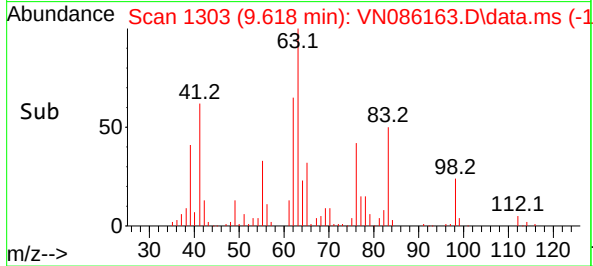
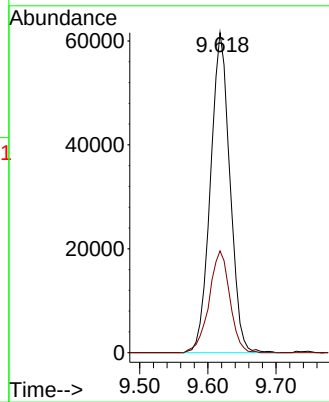
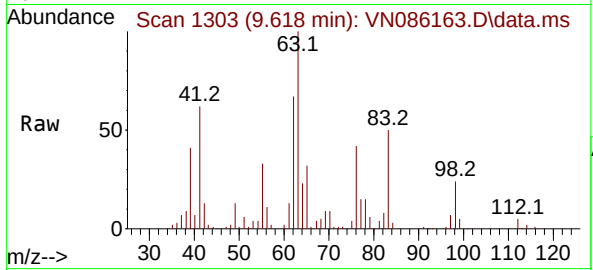
65 31.8 24.7 37.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/31/2025

Supervised By :Mahesh Dadoda 03/31/2025



#46

Dibromomethane

Concen: 47.716 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. -0.000 min

Lab File: VN086163.D

Acq: 28 Mar 2025 20:18

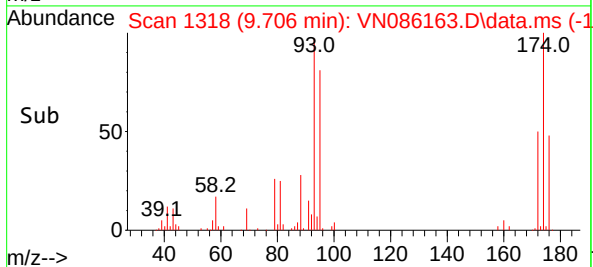
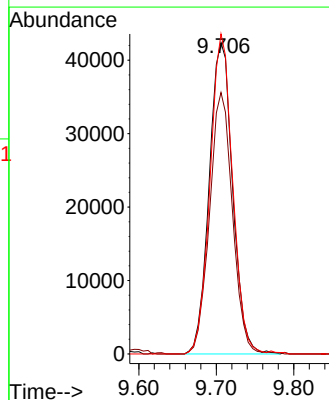
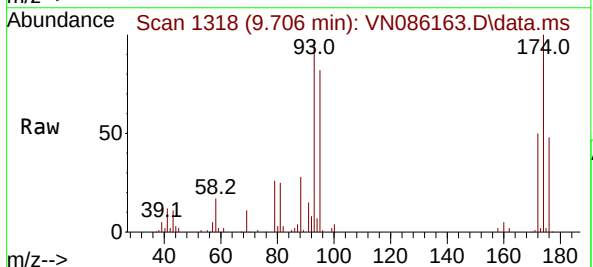
Tgt Ion: 93 Resp: 88901

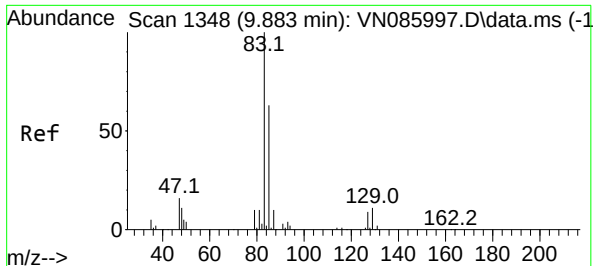
Ion Ratio Lower Upper

93 100

95 82.5 66.2 99.2

174 99.0 80.1 120.1





#47

Bromodichloromethane

Concen: 47.398 ug/l

RT: 9.882 min Scan# 1348

Delta R.T. -0.000 min

Lab File: VN086163.D

Acq: 28 Mar 2025 20:18

Instrument :

MSVOA_N

ClientSampleId :

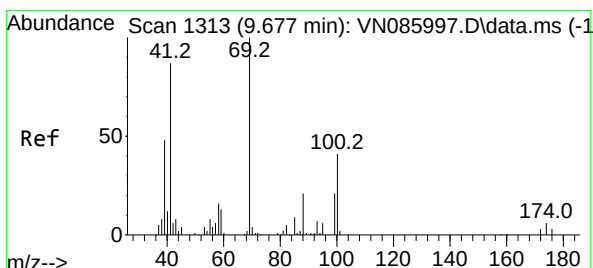
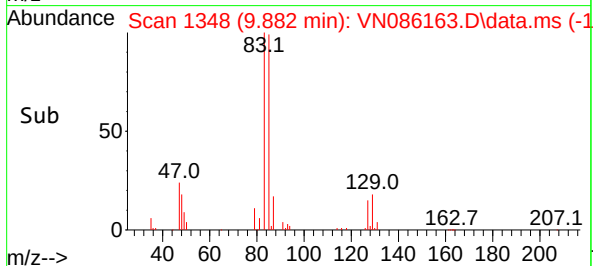
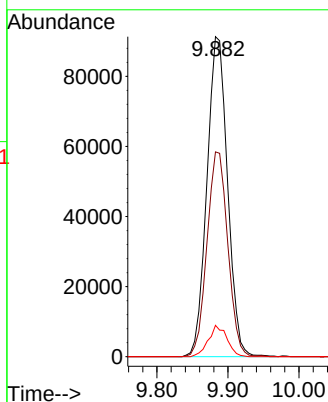
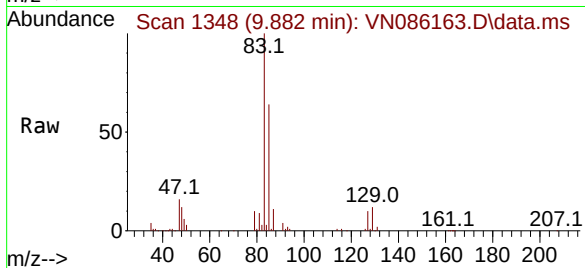
P001-BBDGA-001-01MS

Tgt Ion:	83	Resp:	18456
Ion Ratio	Lower	Upper	
83	100		
85	64.0	50.2	75.2
127	9.8	7.1	10.7

Manual Integrations
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Reviewed By :John Carlone 03/31/2025

Supervised By :Mahesh Dadoda 03/31/2025



#48

Methyl methacrylate

Concen: 44.639 ug/l

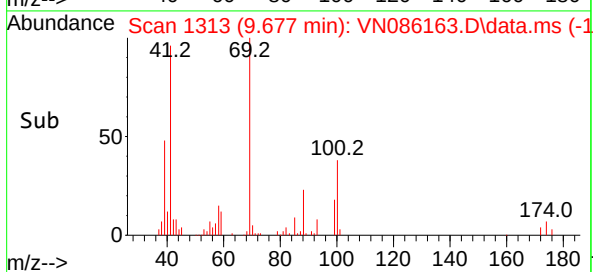
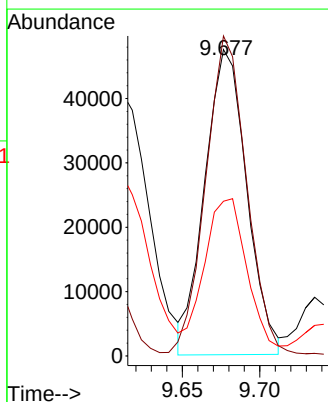
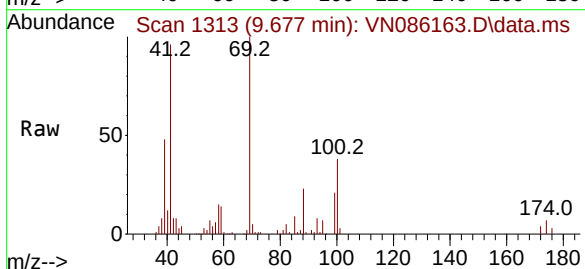
RT: 9.677 min Scan# 1313

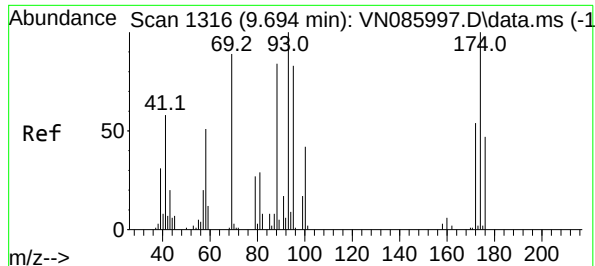
Delta R.T. -0.000 min

Lab File: VN086163.D

Acq: 28 Mar 2025 20:18

Tgt Ion:	41	Resp:	89351
Ion Ratio	Lower	Upper	
41	100		
69	103.3	83.1	124.7
39	53.8	45.6	68.4





#49

1,4-Dioxane

Concen: 890.990 ug/l

RT: 9.694 min Scan# 1316

Delta R.T. -0.000 min

Lab File: VN086163.D

Acq: 28 Mar 2025 20:18

Instrument :

MSVOA_N

ClientSampleId :

P001-BBDGA-001-01MS

Tgt Ion: 88 Resp: 42160

Ion Ratio Lower Upper

88 100

43 21.9 21.7 32.5

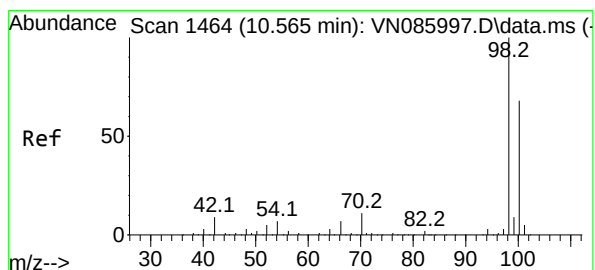
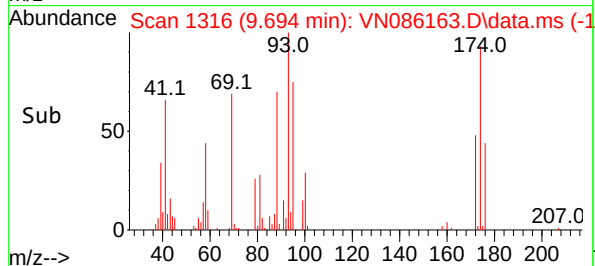
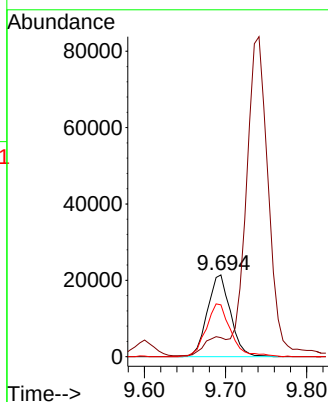
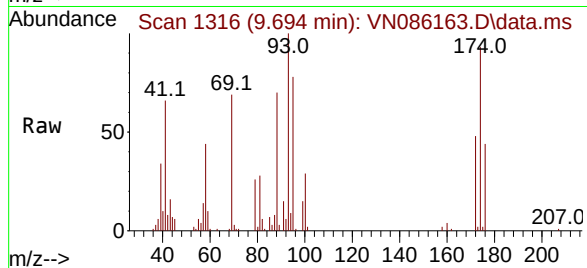
58 69.2 50.4 75.6

Manual Integrations

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Reviewed By :John Carlone 03/31/2025

Supervised By :Mahesh Dadoda 03/31/2025



#50

Toluene-d8

Concen: 48.062 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN086163.D

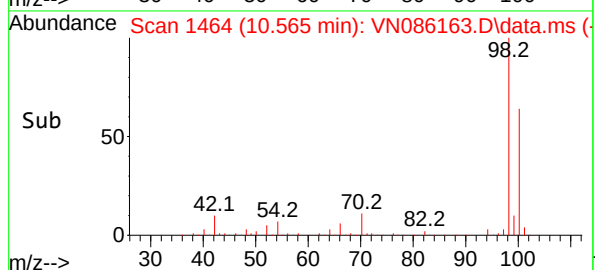
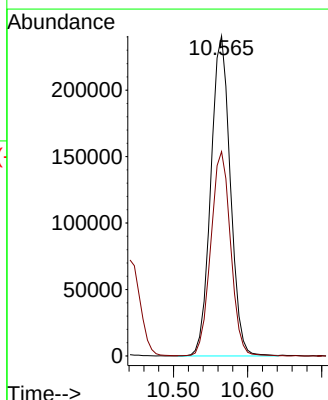
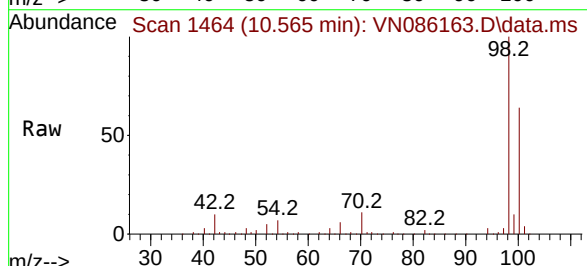
Acq: 28 Mar 2025 20:18

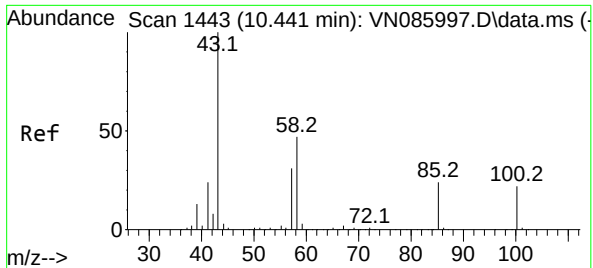
Tgt Ion: 98 Resp: 439543

Ion Ratio Lower Upper

98 100

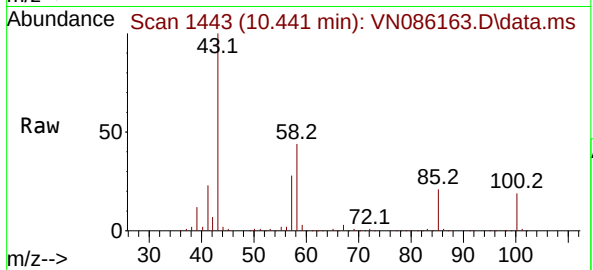
100 64.9 53.1 79.7





#51
4-Methyl-2-Pentanone
Concen: 252.028 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN086163.D
Acq: 28 Mar 2025 20:18

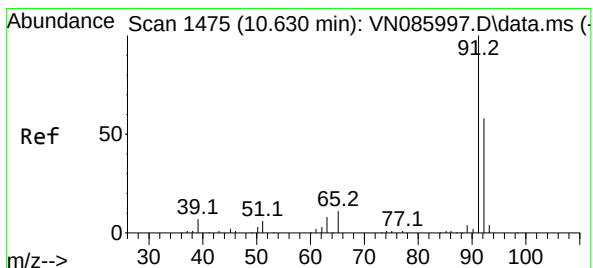
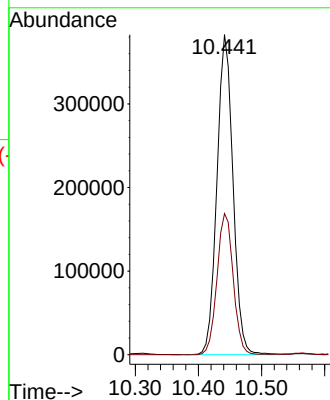
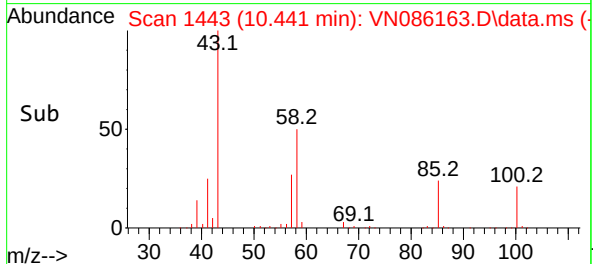
Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-001-01MS



Tgt Ion: 43 Resp: 67421
Ion Ratio Lower Upper
43 100
58 44.6 37.4 56.0

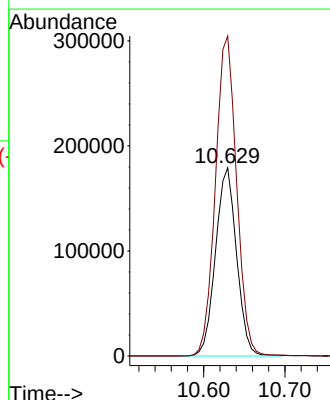
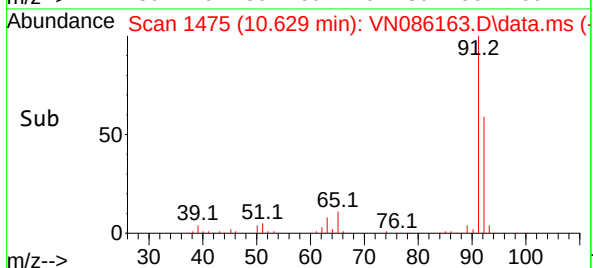
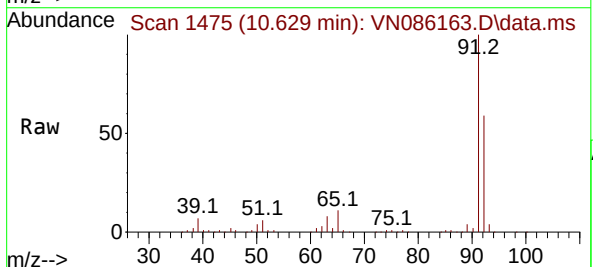
Manual Integrations
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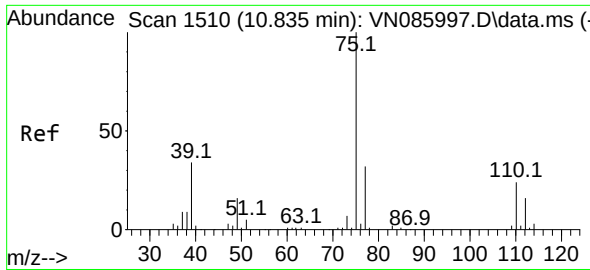
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#52
Toluene
Concen: 50.496 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN086163.D
Acq: 28 Mar 2025 20:18

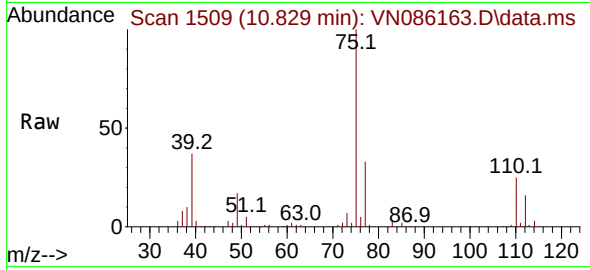
Tgt Ion: 92 Resp: 322818
Ion Ratio Lower Upper
92 100
91 171.4 136.2 204.4





#53
t-1,3-Dichloropropene
Concen: 45.715 ug/l
RT: 10.829 min Scan# 1109
Delta R.T. -0.006 min
Lab File: VN086163.D
Acq: 28 Mar 2025 20:18

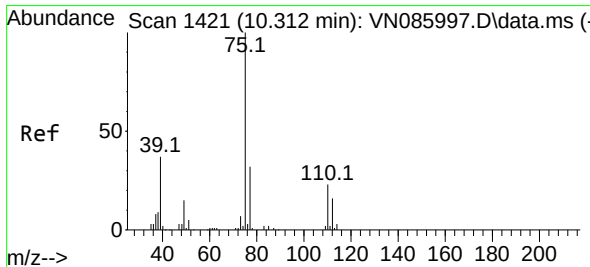
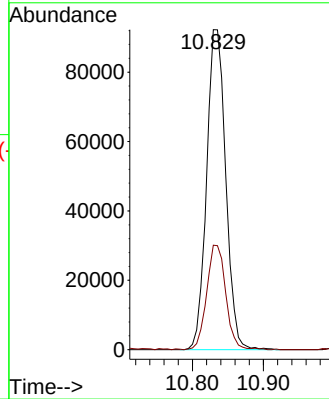
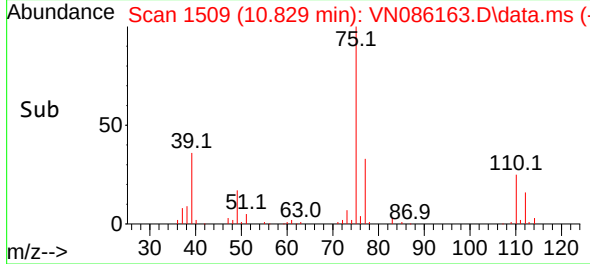
Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-001-01MS



Tgt Ion: 75 Resp: 172870
Ion Ratio Lower Upper
75 100
77 32.7 25.3 37.9

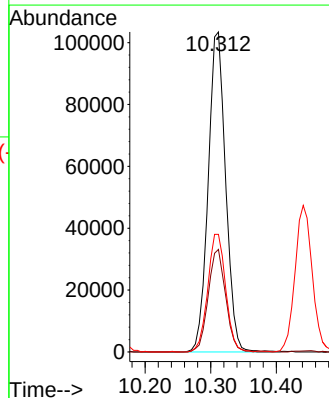
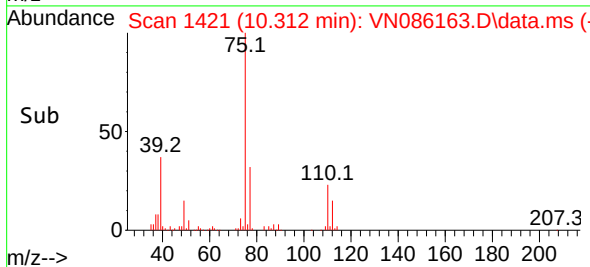
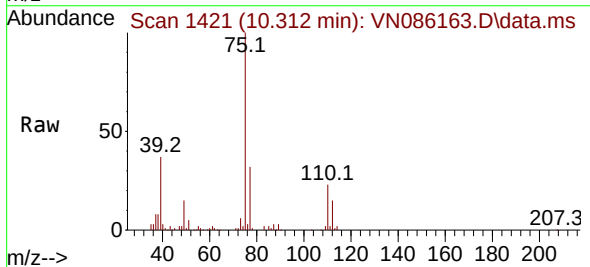
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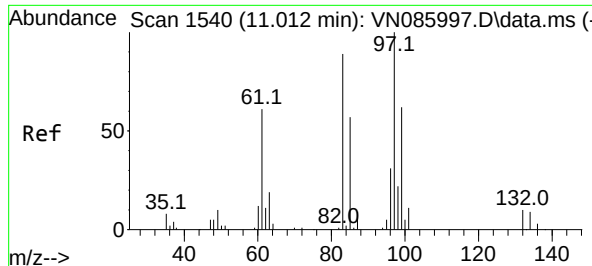
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#54
cis-1,3-Dichloropropene
Concen: 48.044 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. -0.000 min
Lab File: VN086163.D
Acq: 28 Mar 2025 20:18

Tgt Ion: 75 Resp: 191689
Ion Ratio Lower Upper
75 100
77 32.1 25.3 37.9
39 36.8 29.6 44.4





#55

1,1,2-Trichloroethane

Concen: 50.730 ug/l

RT: 11.012 min Scan# 1540

Delta R.T. -0.000 min

Lab File: VN086163.D

Acq: 28 Mar 2025 20:18

Instrument :

MSVOA_N

ClientSampleId :

P001-BBDGA-001-01MS

Tgt Ion: 97 Resp: 12378

Ion Ratio Lower Upper

97 100

83 85.3 71.2 106.8

85 56.4 45.4 68.0

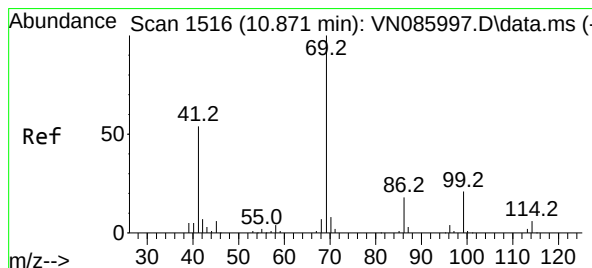
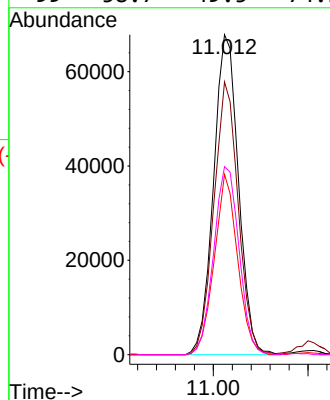
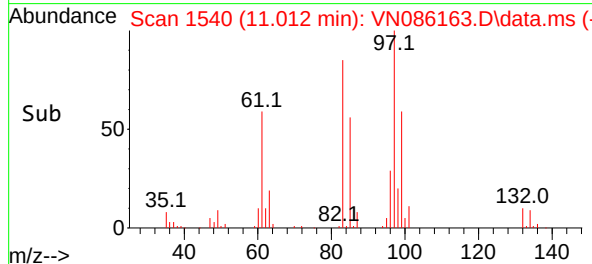
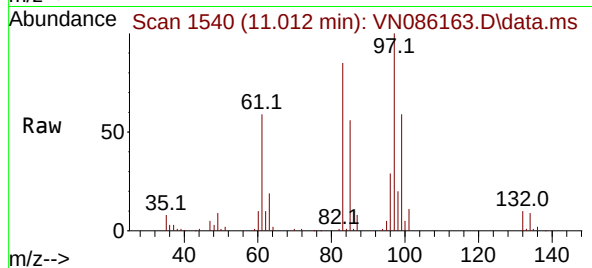
99 58.7 49.5 74.3

Manual Integrations

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Reviewed By :John Carlone 03/31/2025

Supervised By :Mahesh Dadoda 03/31/2025



#56

Ethyl methacrylate

Concen: 44.928 ug/l

RT: 10.871 min Scan# 1516

Delta R.T. -0.000 min

Lab File: VN086163.D

Acq: 28 Mar 2025 20:18

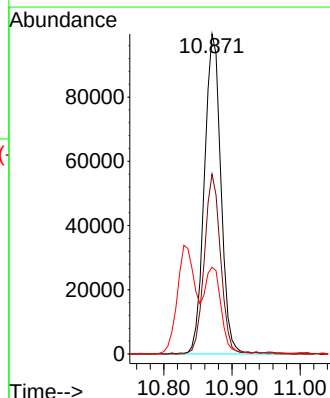
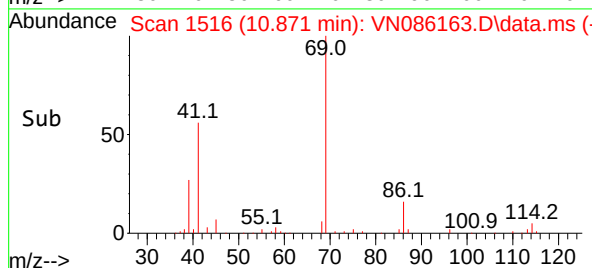
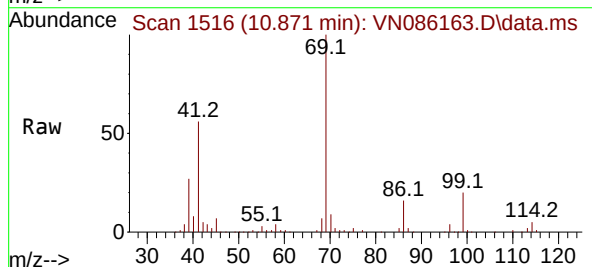
Tgt Ion: 69 Resp: 167499

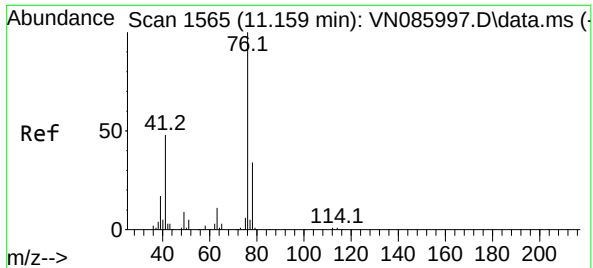
Ion Ratio Lower Upper

69 100

41 55.4 41.6 62.4

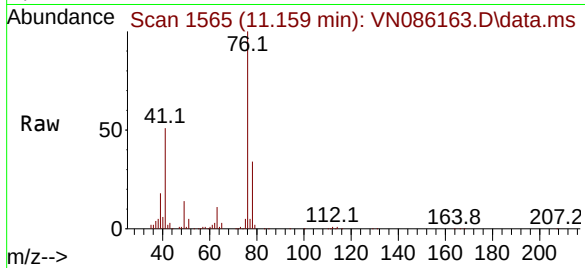
39 26.6 21.8 32.8





#57
1,3-Dichloropropane
Concen: 49.696 ug/l
RT: 11.159 min Scan# 1565
Delta R.T. -0.000 min
Lab File: VN086163.D
Acq: 28 Mar 2025 20:18

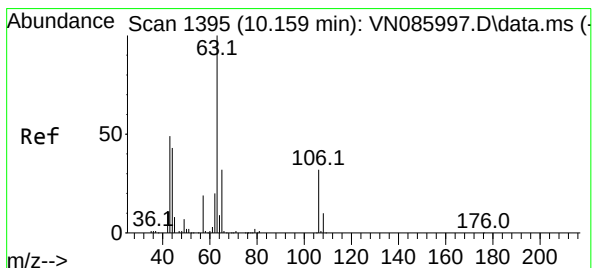
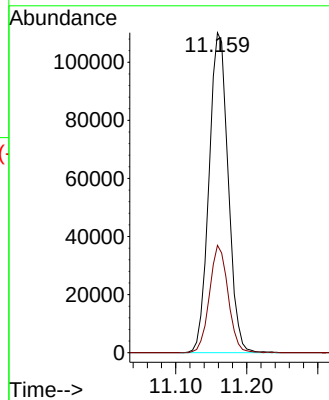
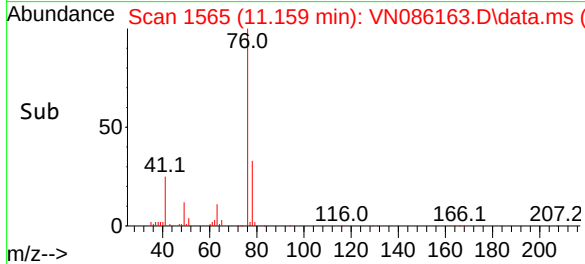
Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-001-01MS



Tgt Ion: 76 Resp: 20595
Ion Ratio Lower Upper
76 100
78 32.6 25.8 38.6

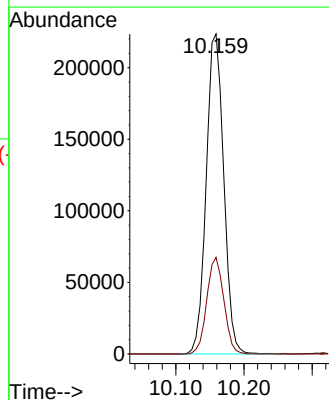
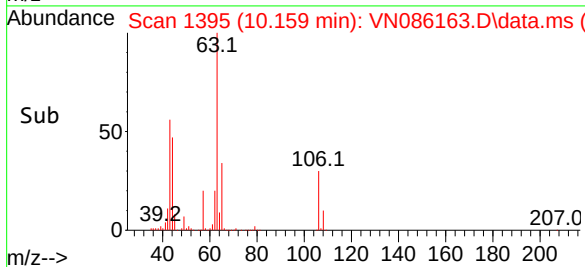
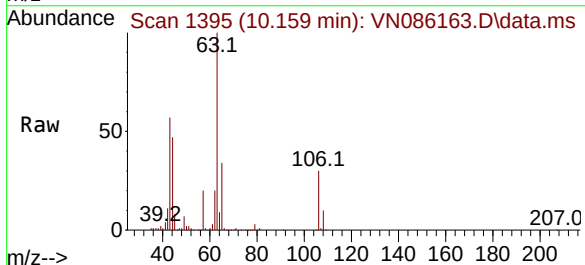
Manual Integrations
APPROVED

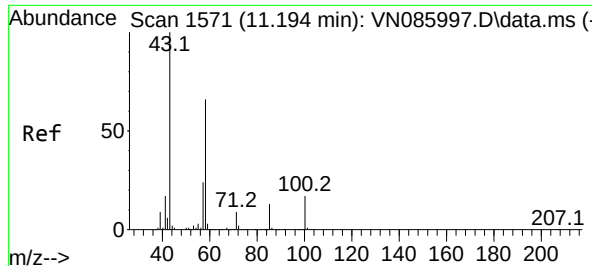
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#58
2-Chloroethyl Vinyl ether
Concen: 269.917 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VN086163.D
Acq: 28 Mar 2025 20:18

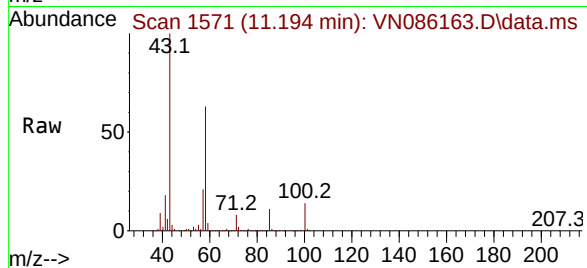
Tgt Ion: 63 Resp: 399789
Ion Ratio Lower Upper
63 100
106 29.3 25.0 37.6





#59
2-Hexanone
Concen: 258.178 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. -0.000 min
Lab File: VN086163.D
Acq: 28 Mar 2025 20:18

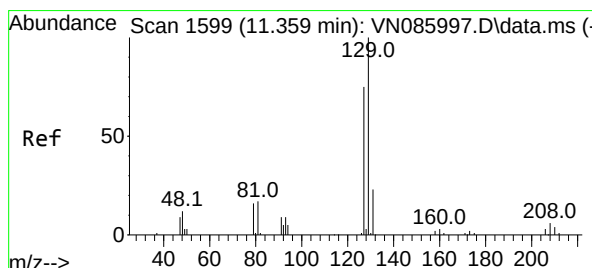
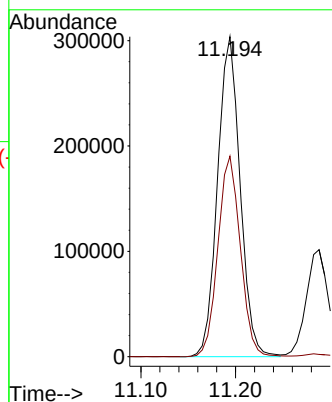
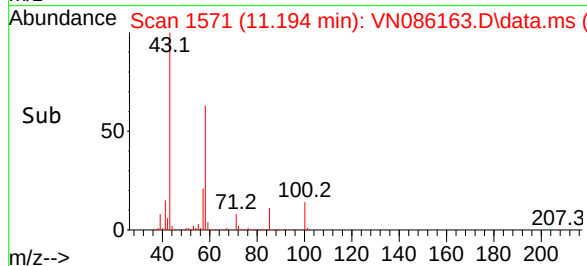
Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-001-01MS



Tgt Ion: 43 Resp: 503140
Ion Ratio Lower Upper
43 100
58 62.4 32.4 97.2

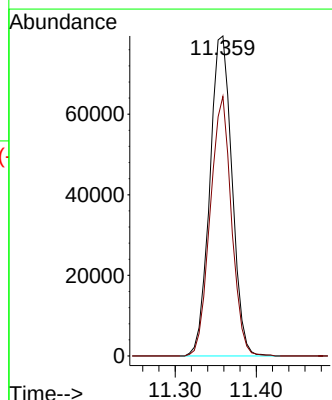
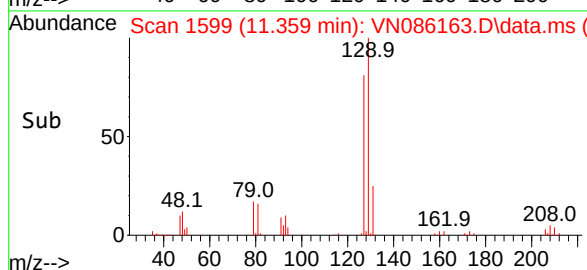
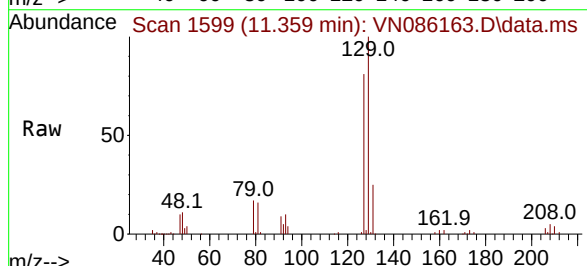
Manual Integrations
APPROVED

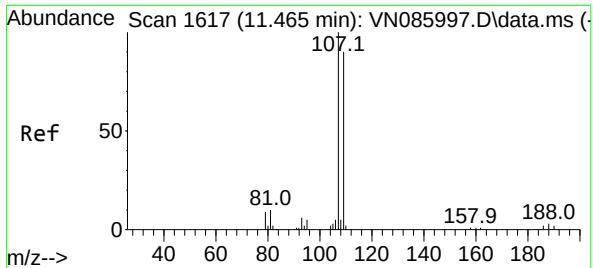
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#60
Dibromochloromethane
Concen: 47.913 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VN086163.D
Acq: 28 Mar 2025 20:18

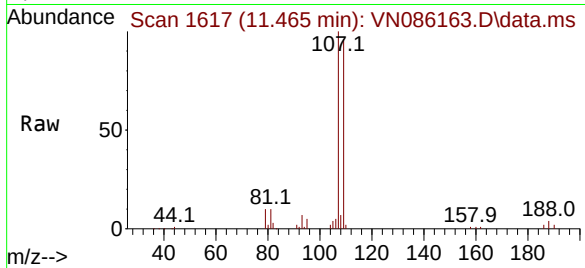
Tgt Ion:129 Resp: 150858
Ion Ratio Lower Upper
129 100
127 77.5 37.8 113.4





#61
1,2-Dibromoethane
Concen: 47.330 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VN086163.D
Acq: 28 Mar 2025 20:18

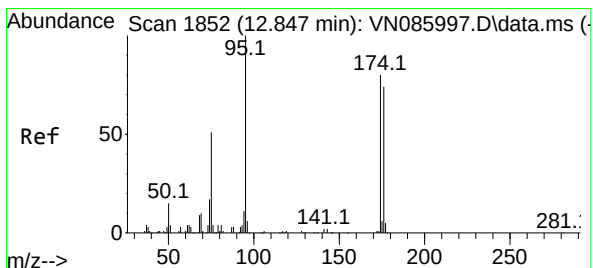
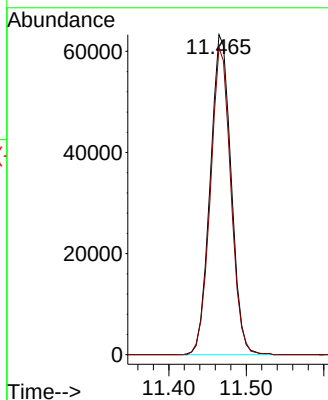
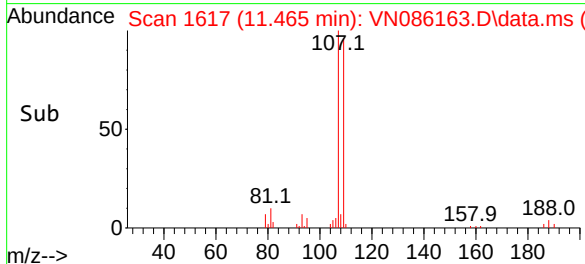
Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-001-01MS



Tgt Ion:107 Resp: 118558
Ion Ratio Lower Upper
107 100
109 93.8 73.3 109.9

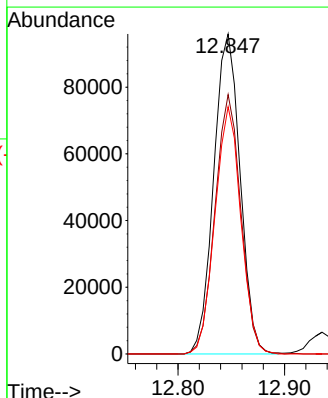
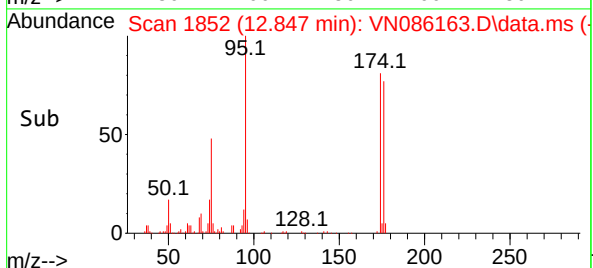
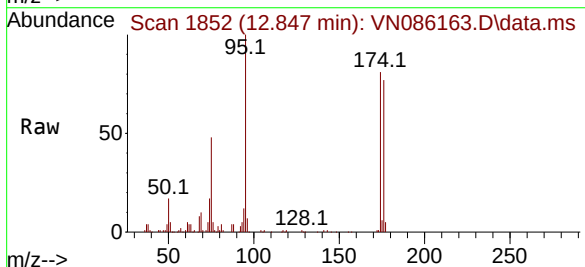
Manual Integrations
APPROVED

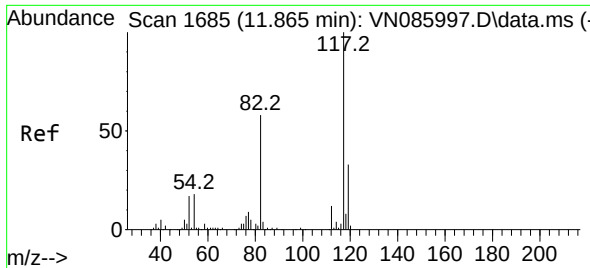
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#62
4-Bromofluorobenzene
Concen: 50.608 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086163.D
Acq: 28 Mar 2025 20:18

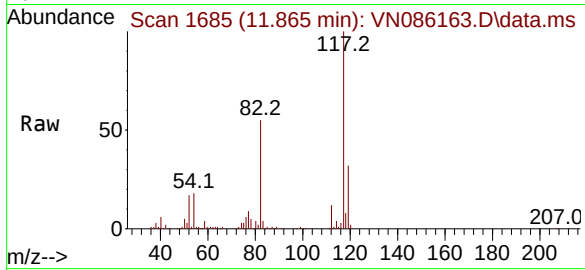
Tgt Ion: 95 Resp: 165058
Ion Ratio Lower Upper
95 100
174 79.4 0.0 156.8
176 75.9 0.0 152.2





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086163.D
Acq: 28 Mar 2025 20:18

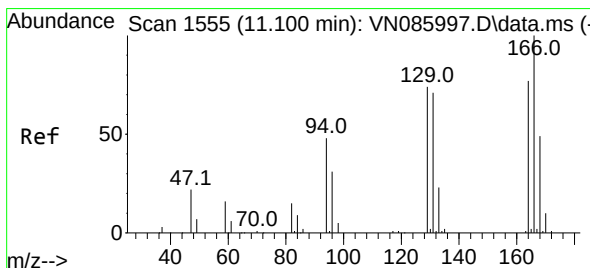
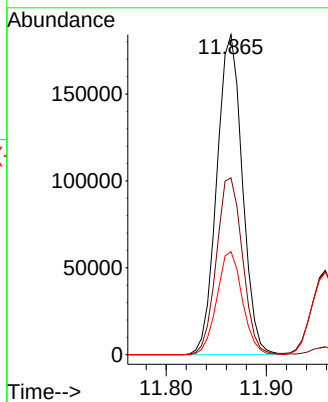
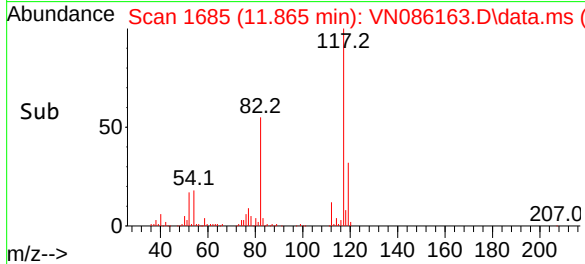
Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-001-01MS



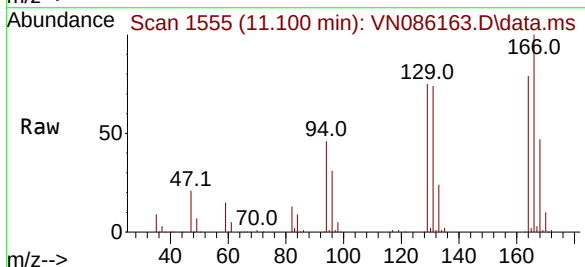
Tgt Ion:117 Resp: 325952
Ion Ratio Lower Upper
117 100
82 55.2 46.7 70.1
119 32.2 26.5 39.7

Manual Integrations
APPROVED

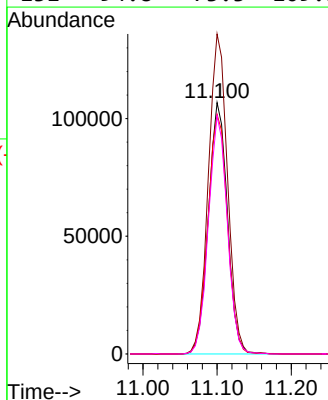
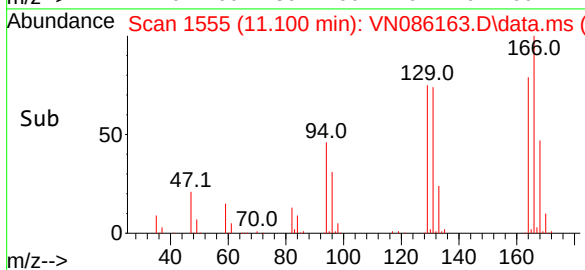
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025

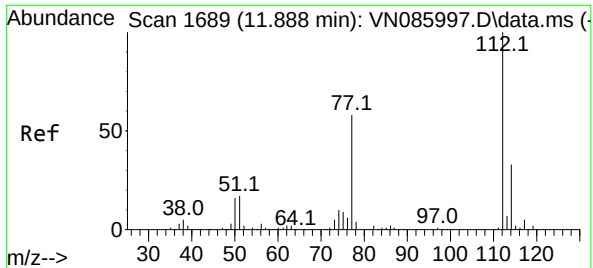


#64
Tetrachloroethene
Concen: 73.339 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. -0.000 min
Lab File: VN086163.D
Acq: 28 Mar 2025 20:18



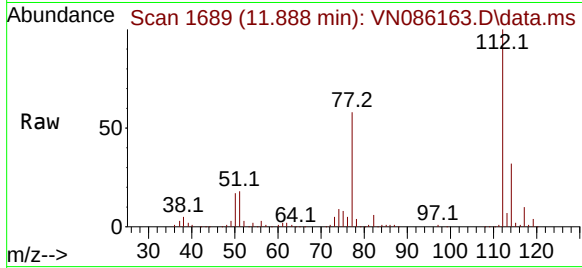
Tgt Ion:164 Resp: 190692
Ion Ratio Lower Upper
164 100
166 127.3 103.7 155.5
129 95.3 77.1 115.7
131 94.8 73.3 109.9





#65
Chlorobenzene
Concen: 46.733 ug/l
RT: 11.888 min Scan# 110
Delta R.T. -0.000 min
Lab File: VN086163.D
Acq: 28 Mar 2025 20:18

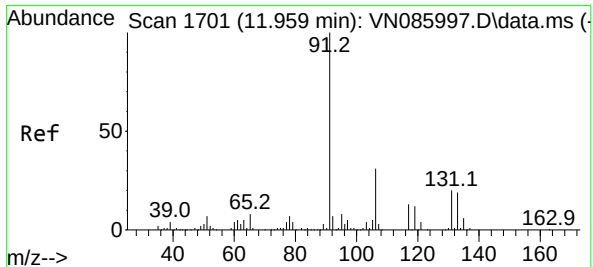
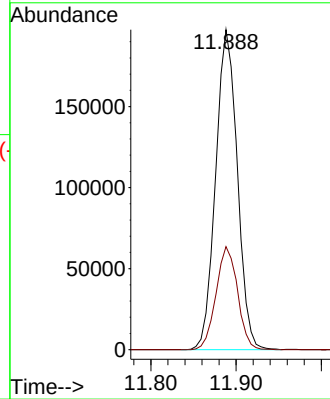
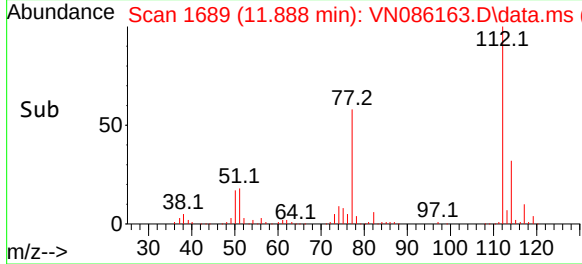
Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-001-01MS



Tgt Ion:112 Resp: 34856
Ion Ratio Lower Upper
112 100
114 32.2 26.3 39.5

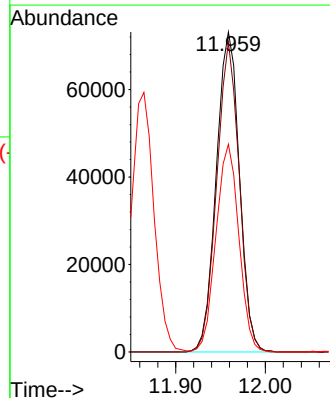
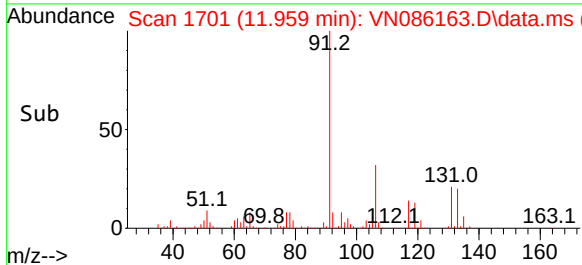
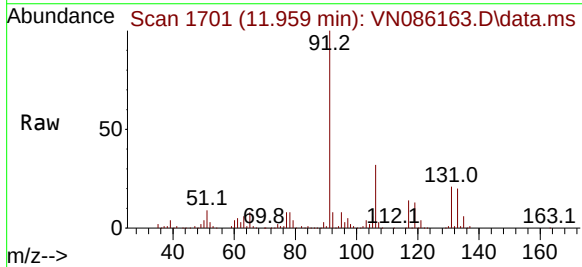
Manual Integrations
APPROVED

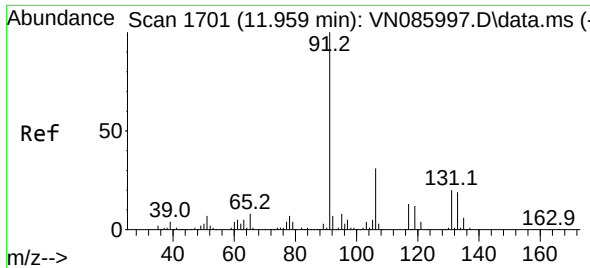
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 47.309 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN086163.D
Acq: 28 Mar 2025 20:18

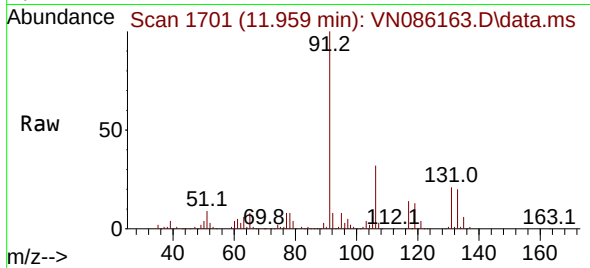
Tgt Ion:131 Resp: 131172
Ion Ratio Lower Upper
131 100
133 94.0 47.0 141.0
119 64.2 31.4 94.0





#67
Ethyl Benzene
Concen: 49.937 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN086163.D
Acq: 28 Mar 2025 20:18

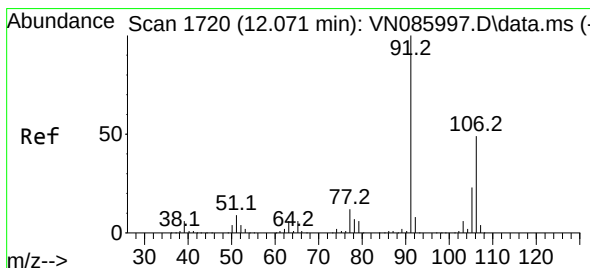
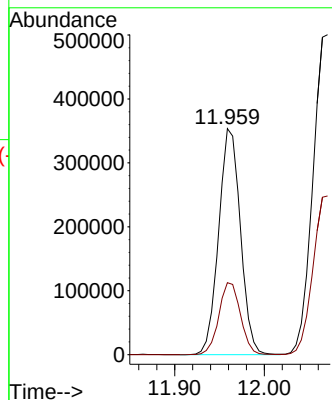
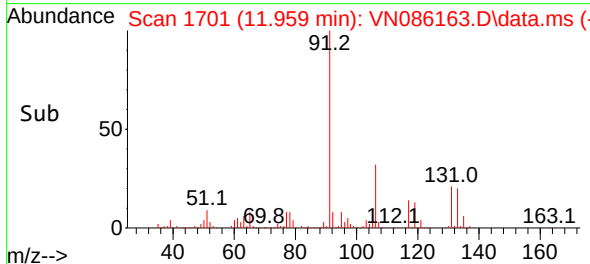
Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-001-01MS



Tgt Ion: 91 Resp: 59580
Ion Ratio Lower Upper
91 100
106 31.9 24.5 36.7

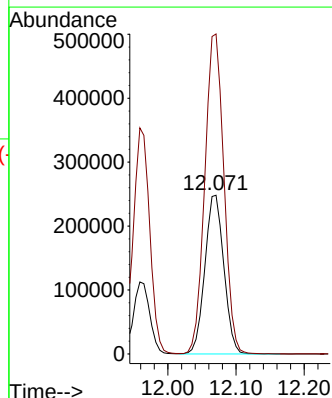
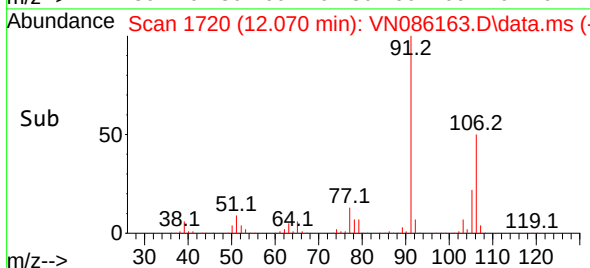
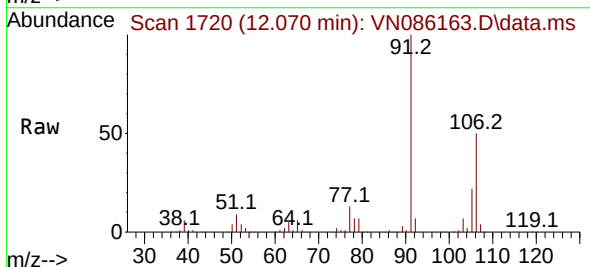
Manual Integrations
APPROVED

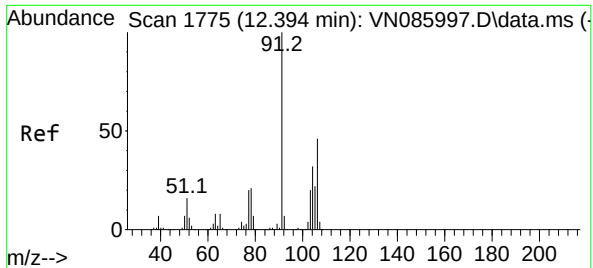
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#68
m/p-Xylenes
Concen: 102.455 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN086163.D
Acq: 28 Mar 2025 20:18

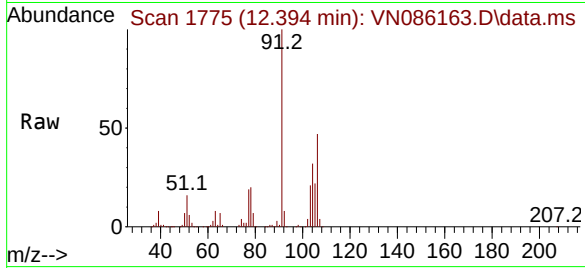
Tgt Ion:106 Resp: 480459
Ion Ratio Lower Upper
106 100
91 203.0 163.9 245.9





#69
o-Xylene
Concen: 52.838 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. -0.000 min
Lab File: VN086163.D
Acq: 28 Mar 2025 20:18

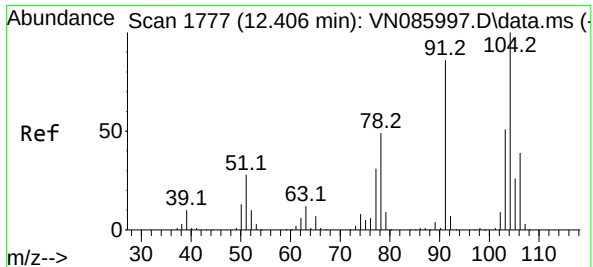
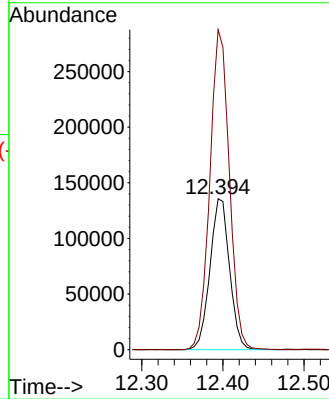
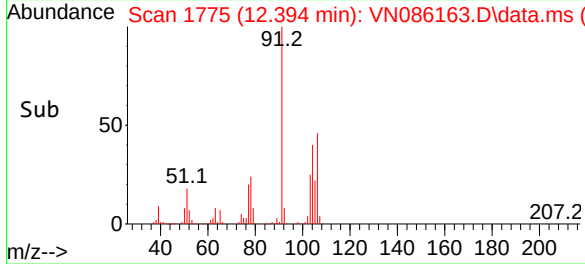
Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-001-01MS



Tgt Ion:106 Resp: 227414
Ion Ratio Lower Upper
106 100
91 210.6 109.1 327.2

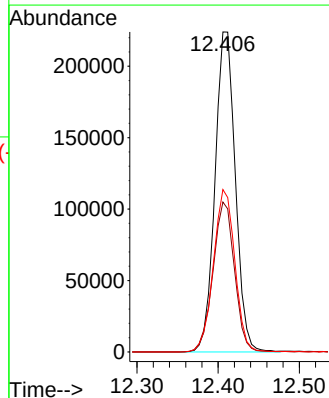
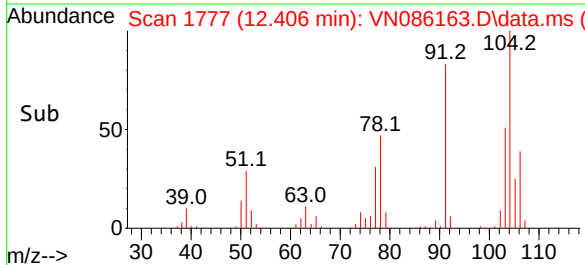
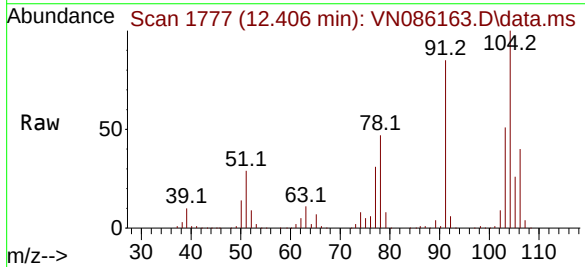
Manual Integrations
APPROVED

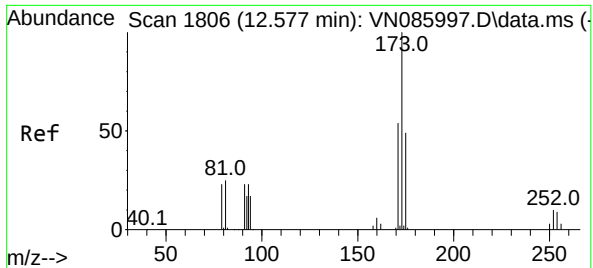
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#70
Styrene
Concen: 53.217 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VN086163.D
Acq: 28 Mar 2025 20:18

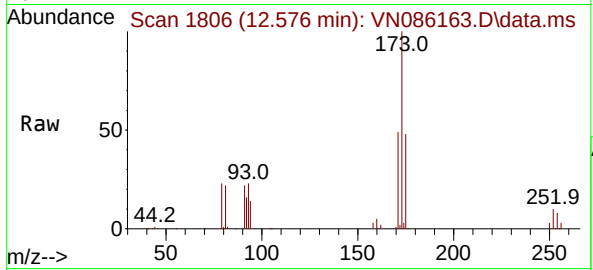
Tgt Ion:104 Resp: 391221
Ion Ratio Lower Upper
104 100
78 49.5 41.4 62.2
103 53.6 42.9 64.3





#71
Bromoform
Concen: 44.612 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. -0.000 min
Lab File: VN086163.D
Acq: 28 Mar 2025 20:18

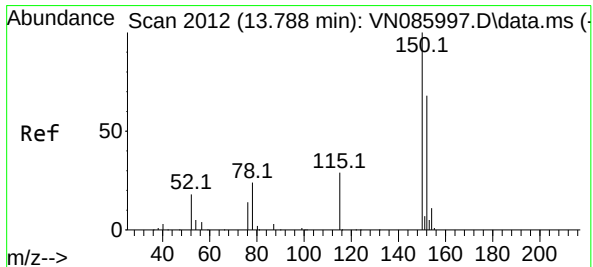
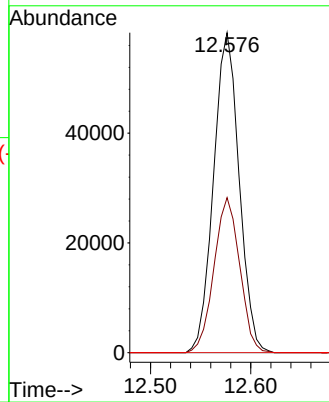
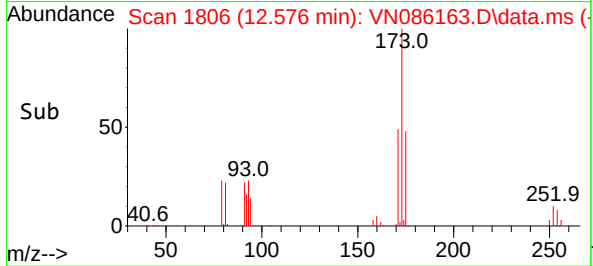
Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-001-01MS



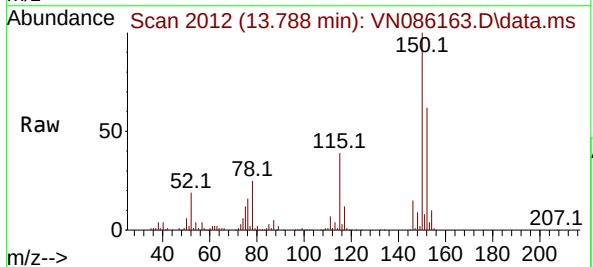
Tgt Ion:173 Resp: 103400
Ion Ratio Lower Upper
173 100
175 48.7 24.3 73.0
254 0.0 0.0 0.0

Manual Integrations
APPROVED

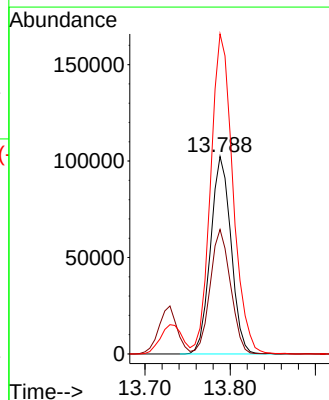
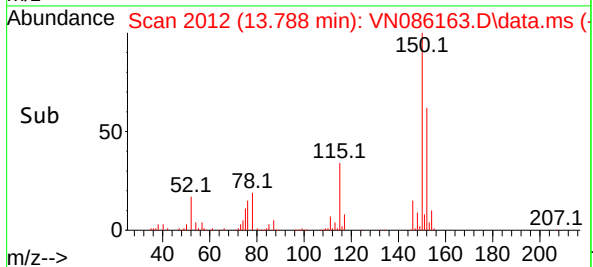
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025

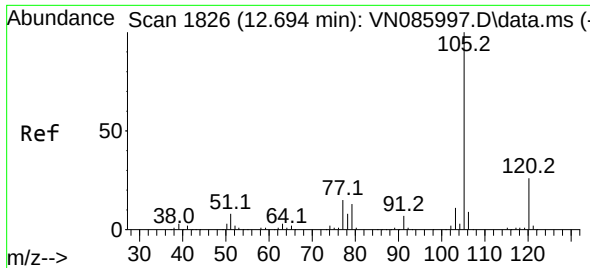


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN086163.D
Acq: 28 Mar 2025 20:18



Tgt Ion:152 Resp: 170825
Ion Ratio Lower Upper
152 100
115 62.9 31.1 93.2
150 176.2 0.0 359.6





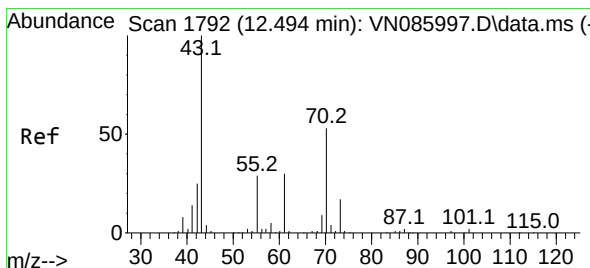
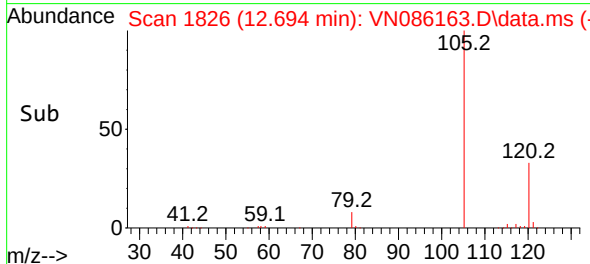
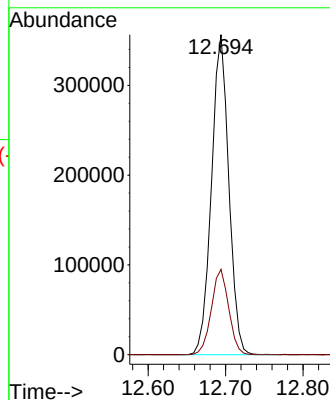
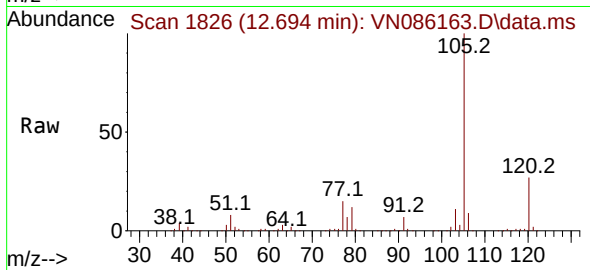
#73
Isopropylbenzene
Concen: 47.535 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. -0.000 min
Lab File: VN086163.D
Acq: 28 Mar 2025 20:18

Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-001-01MS

Tgt Ion:105 Resp: 554510
Ion Ratio Lower Upper
105 100
120 26.6 13.0 39.0

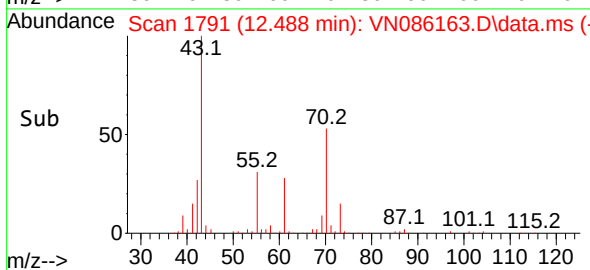
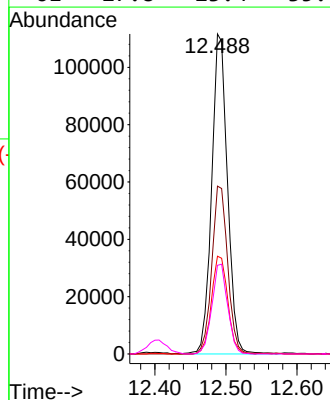
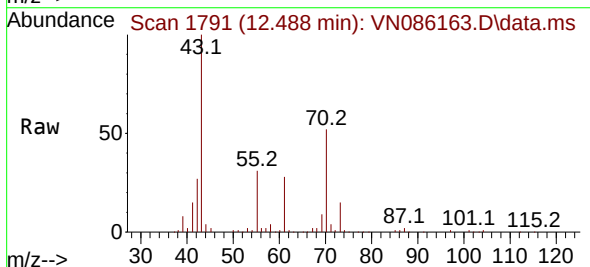
Manual Integrations
APPROVED

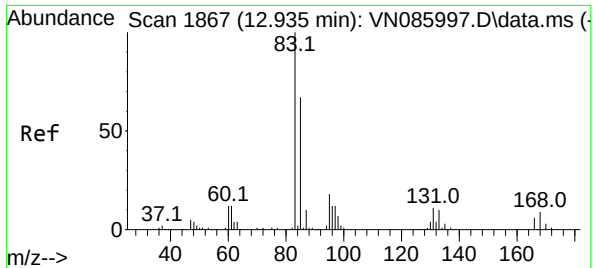
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#74
N-ethyl acetate
Concen: 44.237 ug/l
RT: 12.488 min Scan# 1791
Delta R.T. -0.006 min
Lab File: VN086163.D
Acq: 28 Mar 2025 20:18

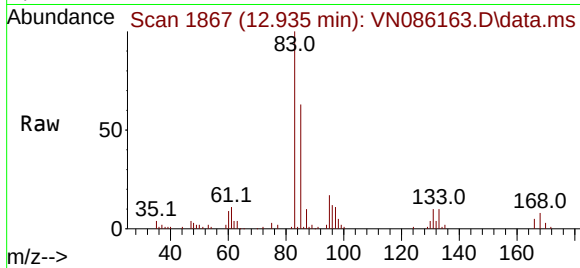
Tgt Ion: 43 Resp: 172649
Ion Ratio Lower Upper
43 100
70 52.4 43.0 64.4
55 31.6 23.8 35.8
61 27.8 23.4 35.0





#75
1,1,2,2-Tetrachloroethane
Concen: 16.708 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. -0.000 min
Lab File: VN086163.D
Acq: 28 Mar 2025 20:18

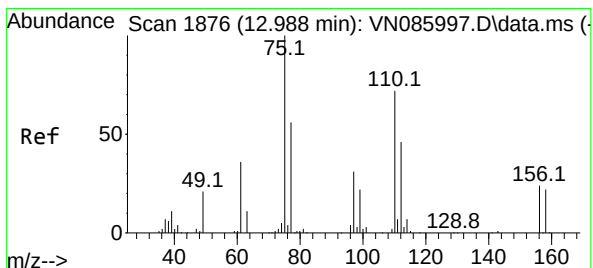
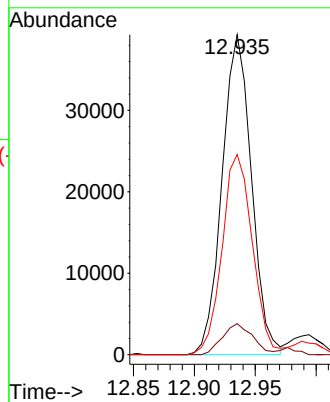
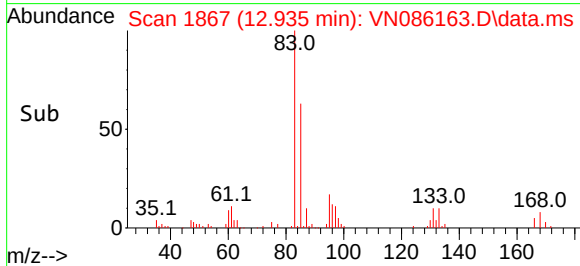
Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-001-01MS



Tgt Ion: 83 Resp: 65940
Ion Ratio Lower Upper
83 100
131 10.0 5.5 16.5
85 64.5 32.6 97.8

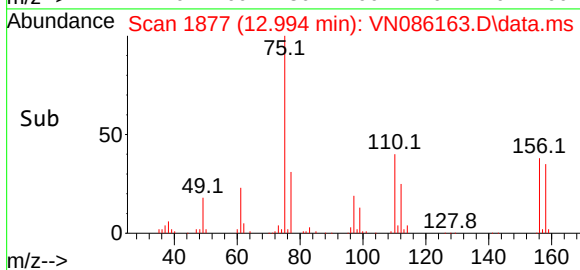
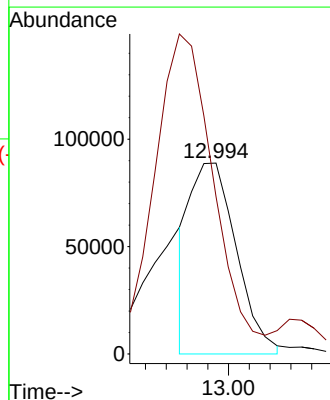
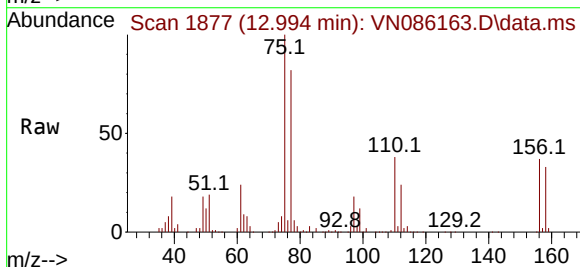
Manual Integrations
APPROVED

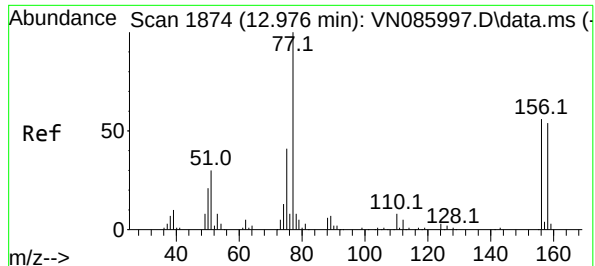
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#76
1,2,3-Trichloropropane
Concen: 35.989 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. 0.006 min
Lab File: VN086163.D
Acq: 28 Mar 2025 20:18

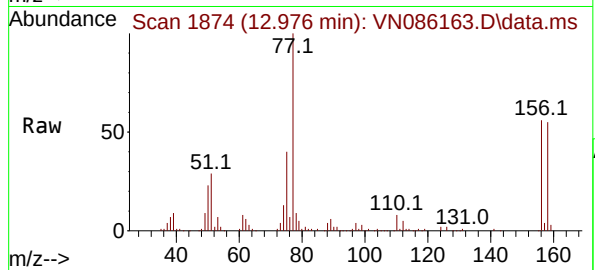
Tgt Ion: 75 Resp: 137638
Ion Ratio Lower Upper
75 100
77 216.0 83.7 251.0





#77
Bromobenzene
Concen: 44.707 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. -0.000 min
Lab File: VN086163.D
Acq: 28 Mar 2025 20:18

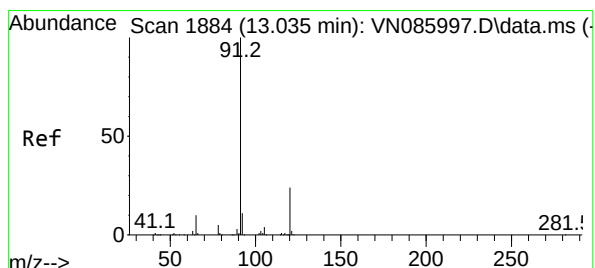
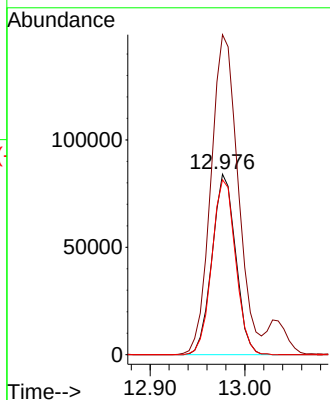
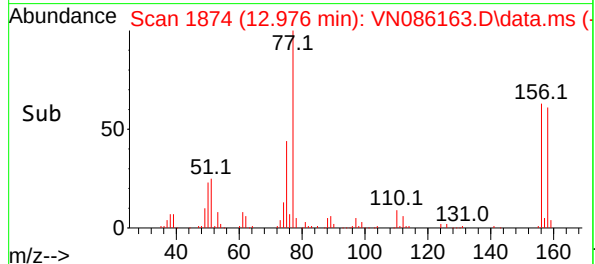
Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-001-01MS



Tgt Ion:156 Resp: 145420
Ion Ratio Lower Upper
156 100
77 204.4 104.1 312.3
158 97.5 49.0 147.0

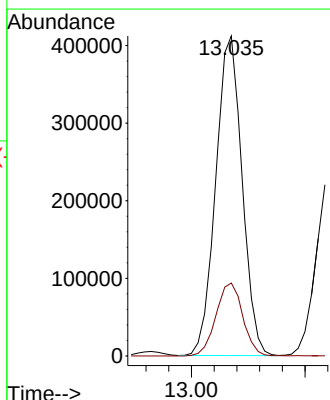
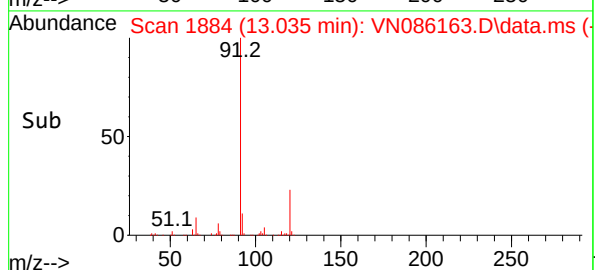
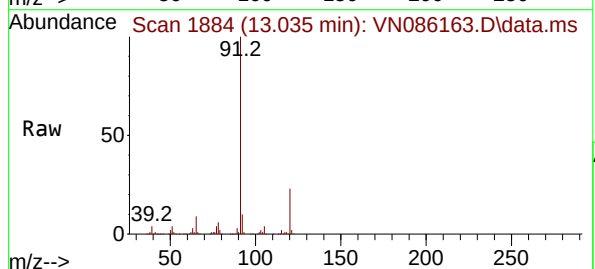
Manual Integrations
APPROVED

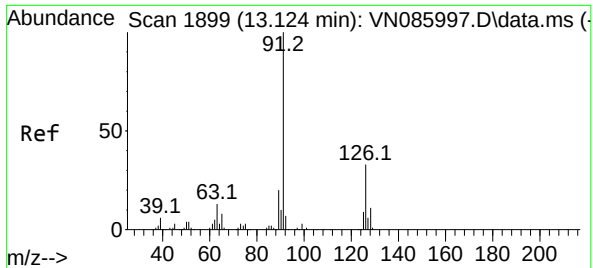
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#78
n-propylbenzene
Concen: 50.207 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN086163.D
Acq: 28 Mar 2025 20:18

Tgt Ion: 91 Resp: 663204
Ion Ratio Lower Upper
91 100
120 23.2 11.7 35.0





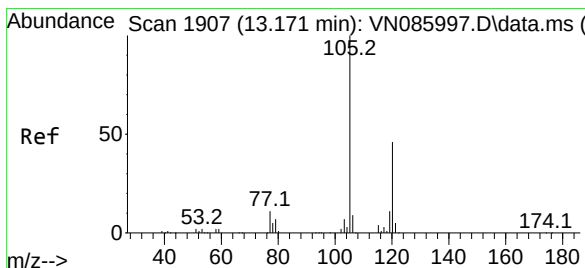
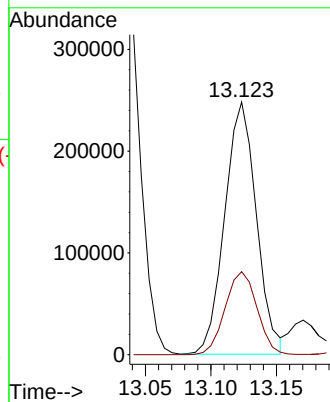
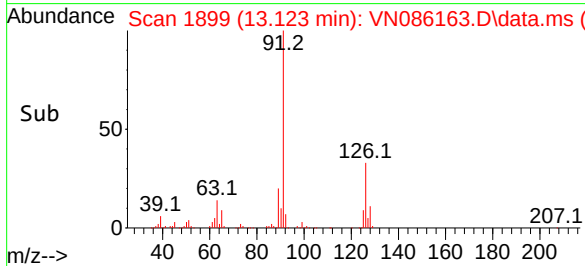
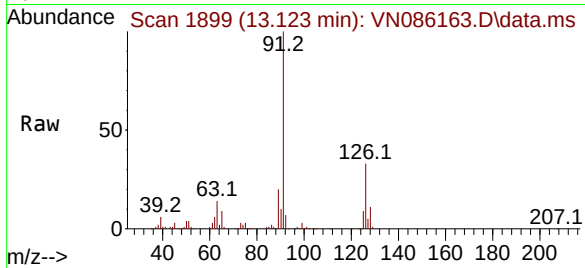
#79
2-Chlorotoluene
Concen: 47.473 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. -0.000 min
Lab File: VN086163.D
Acq: 28 Mar 2025 20:18

Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-001-01MS

Tgt Ion: 91 Resp: 416519
Ion Ratio Lower Upper
91 100
126 33.1 16.4 49.2

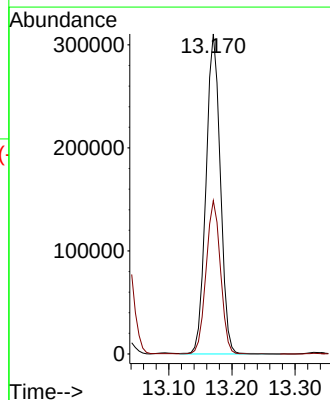
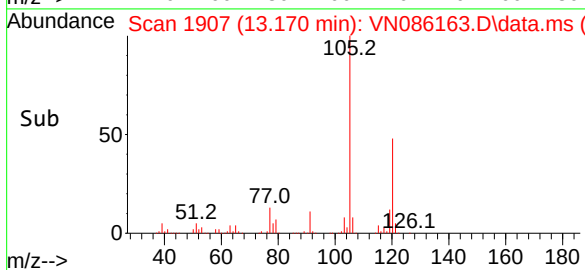
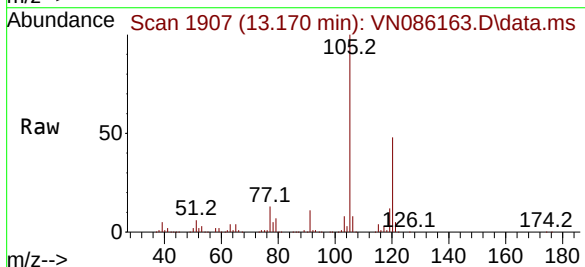
Manual Integrations
APPROVED

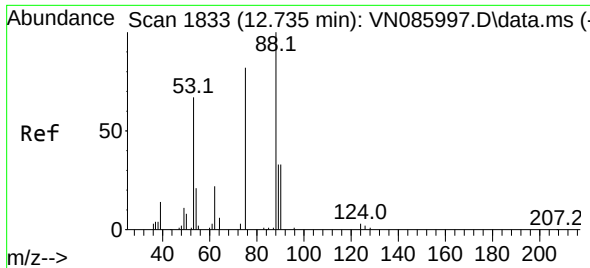
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#80
1,3,5-Trimethylbenzene
Concen: 49.521 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN086163.D
Acq: 28 Mar 2025 20:18

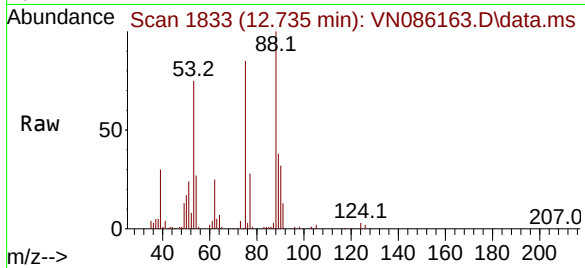
Tgt Ion:105 Resp: 487730
Ion Ratio Lower Upper
105 100
120 48.2 23.7 71.1





#81
trans-1,4-Dichloro-2-butene
Concen: 43.170 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. -0.000 min
Lab File: VN086163.D
Acq: 28 Mar 2025 20:18

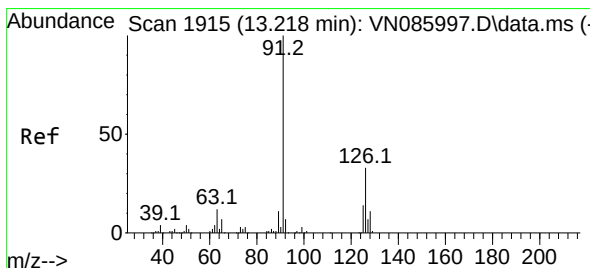
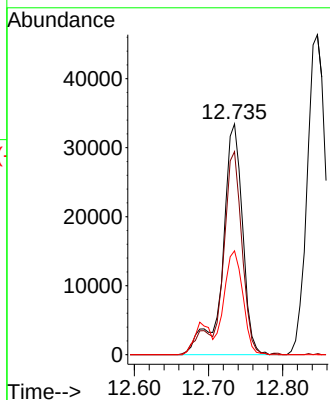
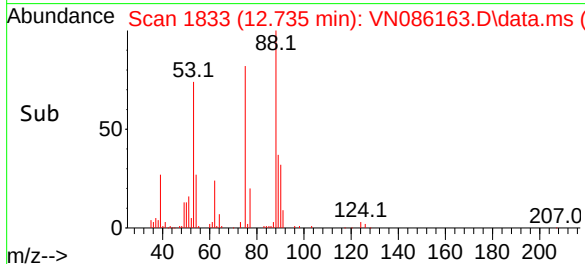
Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-001-01MS



Tgt Ion: 75 Resp: 62448
Ion Ratio Lower Upper
75 100
53 77.3 66.0 99.0
89 42.4 36.9 55.3

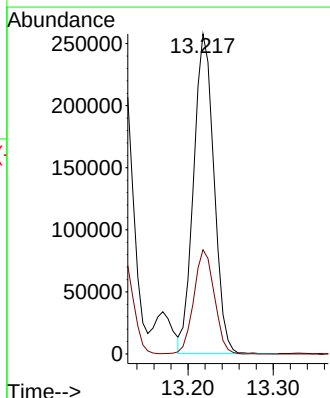
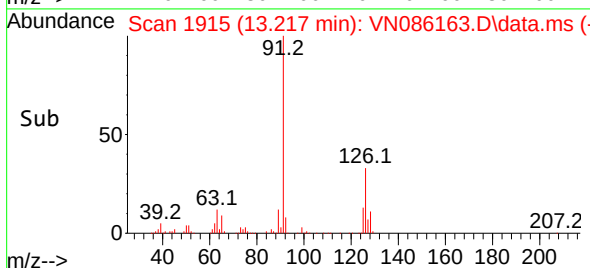
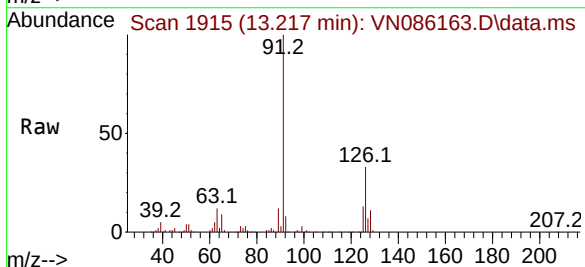
Manual Integrations
APPROVED

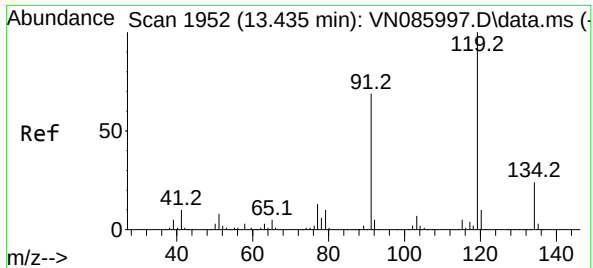
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#82
4-Chlorotoluene
Concen: 47.277 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. -0.000 min
Lab File: VN086163.D
Acq: 28 Mar 2025 20:18

Tgt Ion: 91 Resp: 426559
Ion Ratio Lower Upper
91 100
126 32.9 16.1 48.2





#83

tert-Butylbenzene

Concen: 46.626 ug/l

RT: 13.435 min Scan# 1952

Delta R.T. -0.000 min

Lab File: VN086163.D

Acq: 28 Mar 2025 20:18

Instrument :

MSVOA_N

ClientSampleId :

P001-BBDGA-001-01MS

Tgt Ion:119 Resp: 392748

Ion Ratio Lower Upper

119 100

91 67.4 34.3 102.9

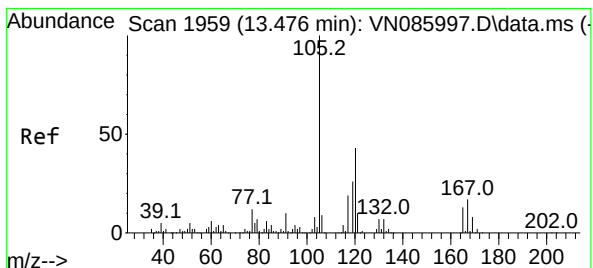
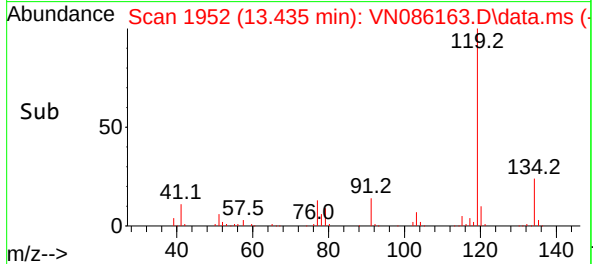
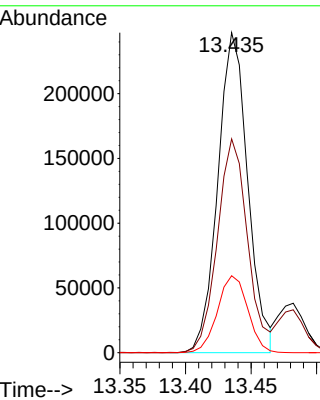
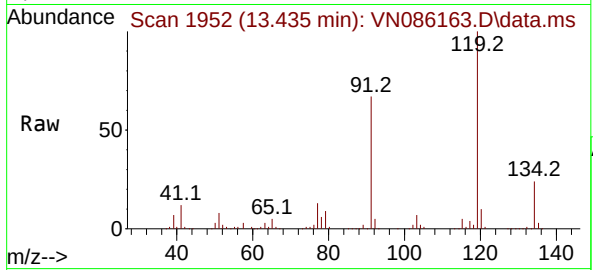
134 24.3 13.5 40.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/31/2025

Supervised By :Mahesh Dadoda 03/31/2025



#84

1,2,4-Trimethylbenzene

Concen: 49.821 ug/l

RT: 13.482 min Scan# 1960

Delta R.T. 0.006 min

Lab File: VN086163.D

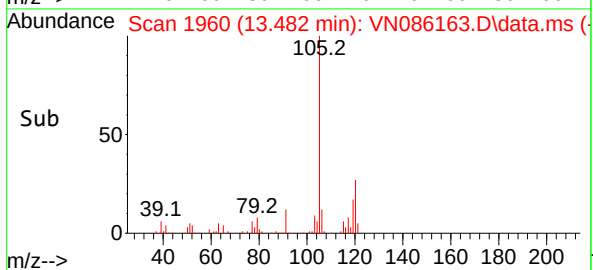
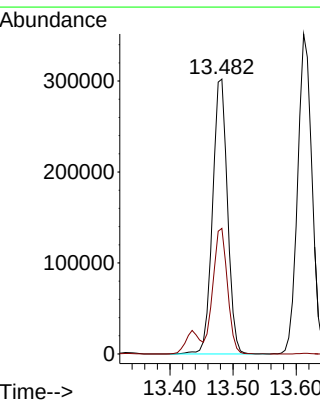
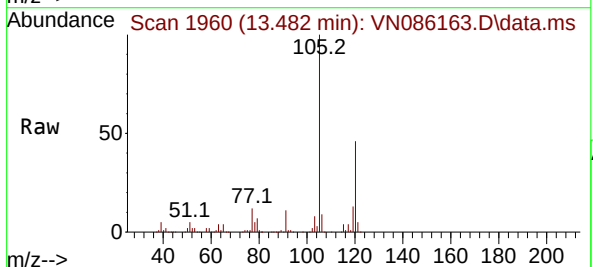
Acq: 28 Mar 2025 20:18

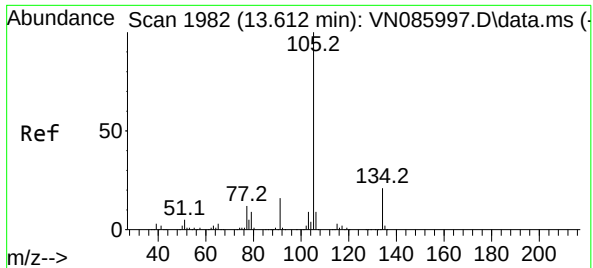
Tgt Ion:105 Resp: 494906

Ion Ratio Lower Upper

105 100

120 44.5 21.9 65.8





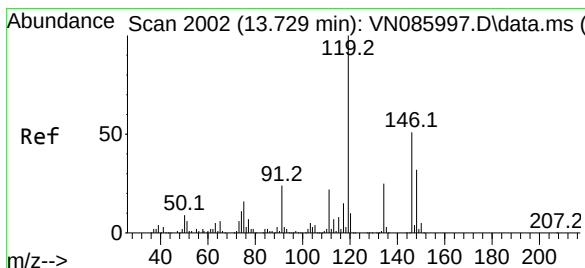
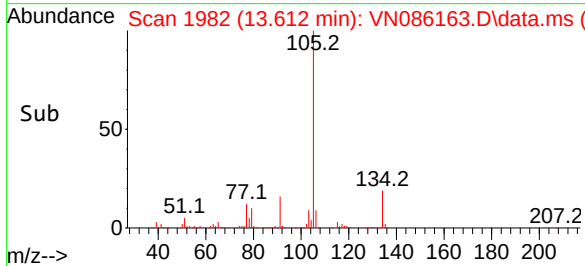
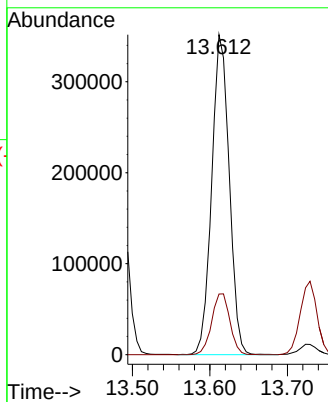
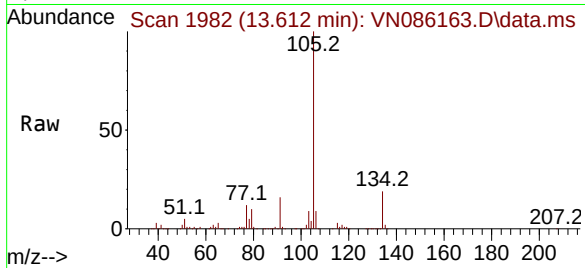
#85
sec-Butylbenzene
Concen: 50.251 ug/l
RT: 13.612 min Scan# 1982
Delta R.T. -0.000 min
Lab File: VN086163.D
Acq: 28 Mar 2025 20:18

Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-001-01MS

Tgt Ion:105 Resp: 552190
Ion Ratio Lower Upper
105 100
134 19.8 10.1 30.1

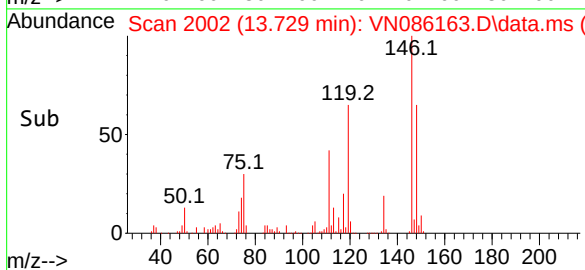
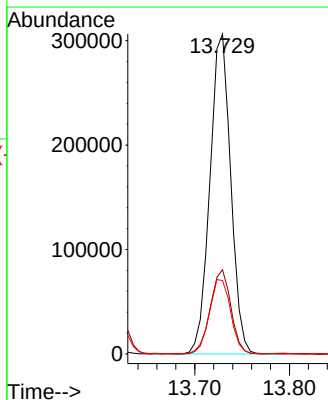
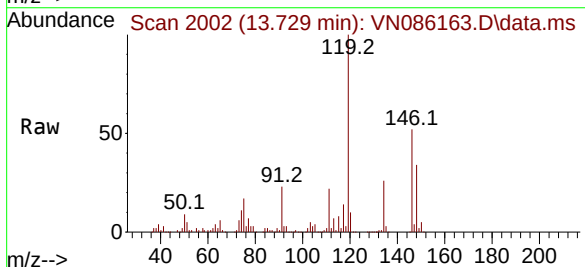
Manual Integrations
APPROVED

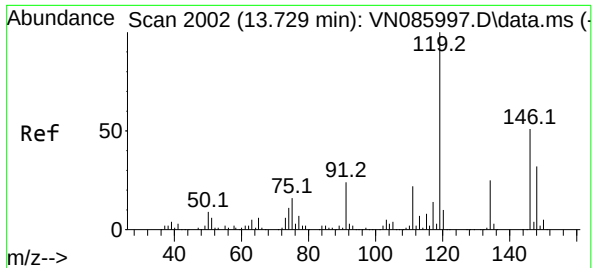
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#86
p-Isopropyltoluene
Concen: 50.305 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN086163.D
Acq: 28 Mar 2025 20:18

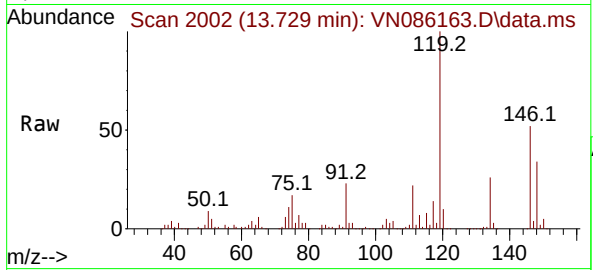
Tgt Ion:119 Resp: 467935
Ion Ratio Lower Upper
119 100
134 26.0 12.6 37.8
91 23.8 12.3 36.8





#87
1,3-Dichlorobenzene
Concen: 46.463 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN086163.D
Acq: 28 Mar 2025 20:18

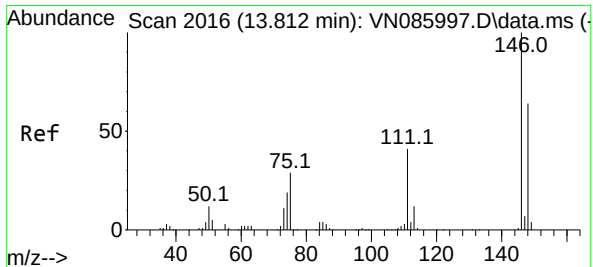
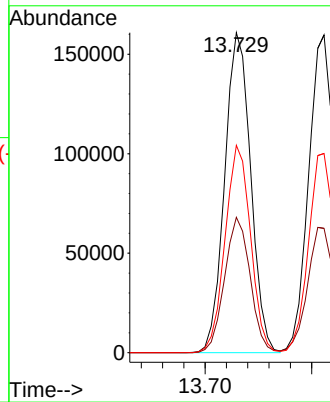
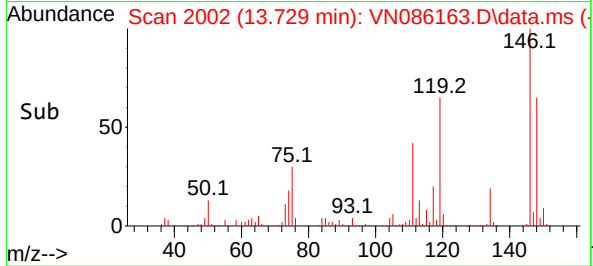
Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-001-01MS



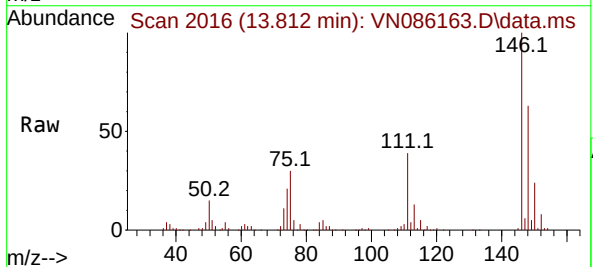
Tgt Ion:146 Resp: 272420
Ion Ratio Lower Upper
146 100
111 41.7 21.2 63.6
148 63.6 31.8 95.4

Manual Integrations
APPROVED

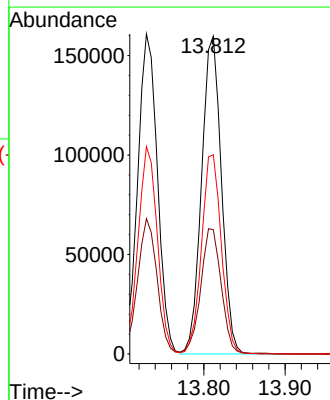
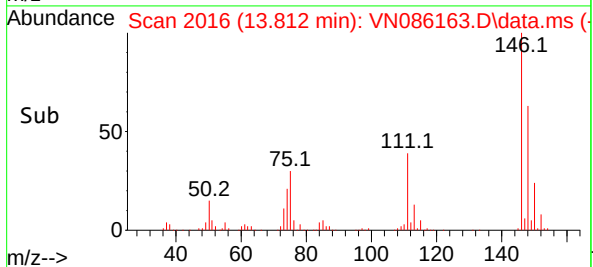
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025

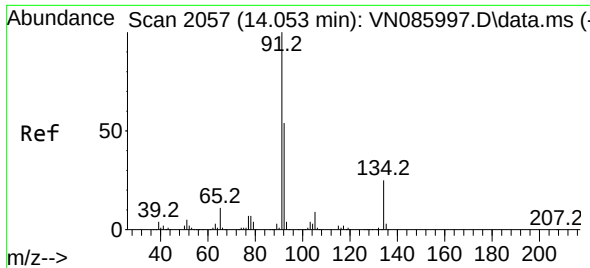


#88
1,4-Dichlorobenzene
Concen: 43.963 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN086163.D
Acq: 28 Mar 2025 20:18



Tgt Ion:146 Resp: 270819
Ion Ratio Lower Upper
146 100
111 40.4 20.4 61.3
148 63.0 32.1 96.5





#89

n-Butylbenzene

Concen: 48.853 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.000 min

Lab File: VN086163.D

Acq: 28 Mar 2025 20:18

Instrument :

MSVOA_N

ClientSampleId :

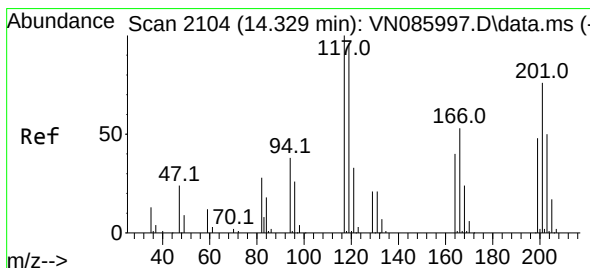
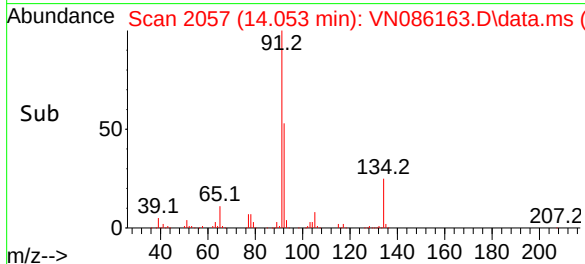
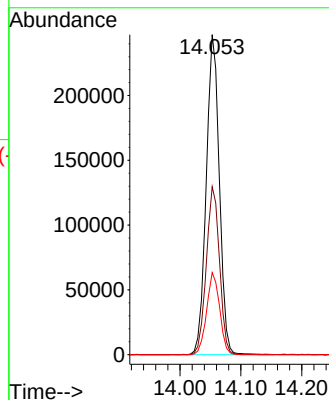
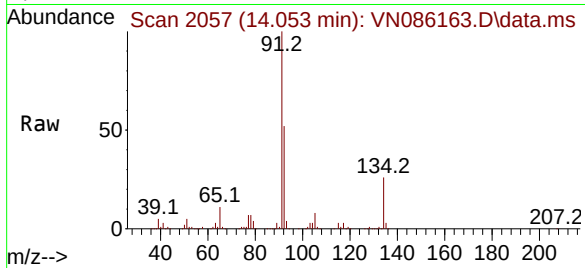
P001-BBDGA-001-01MS

Tgt Ion:	91	Resp:	37005
Ion	Ratio	Lower	Upper
91	100		
92	52.8	26.9	80.6
134	25.4	13.0	39.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/31/2025

Supervised By :Mahesh Dadoda 03/31/2025



#90

Hexachloroethane

Concen: 43.820 ug/l

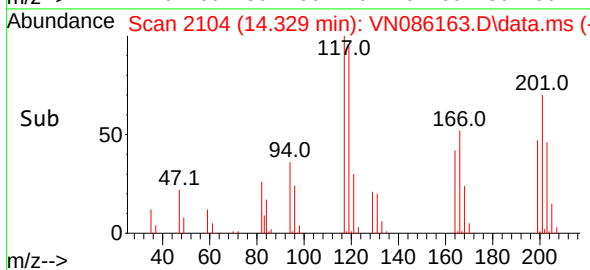
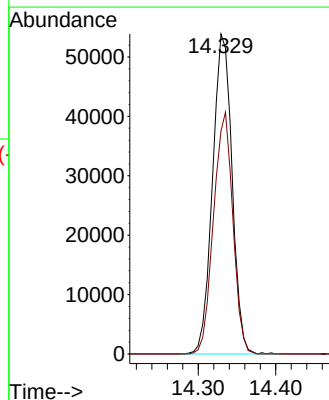
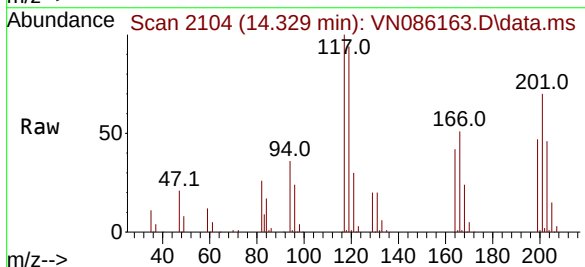
RT: 14.329 min Scan# 2104

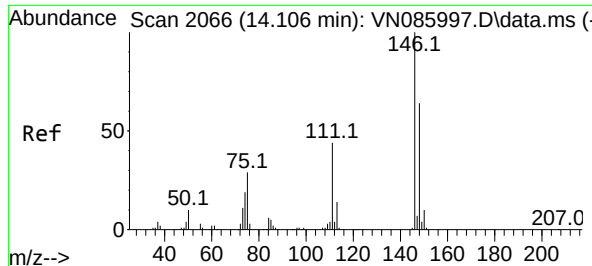
Delta R.T. -0.000 min

Lab File: VN086163.D

Acq: 28 Mar 2025 20:18

Tgt Ion:	117	Resp:	94053
Ion	Ratio	Lower	Upper
117	100		
201	74.8	39.1	117.3





#91

1,2-Dichlorobenzene

Concen: 45.398 ug/l

RT: 14.106 min Scan# 2066

Delta R.T. -0.000 min

Lab File: VN086163.D

Acq: 28 Mar 2025 20:18

Instrument :

MSVOA_N

ClientSampleId :

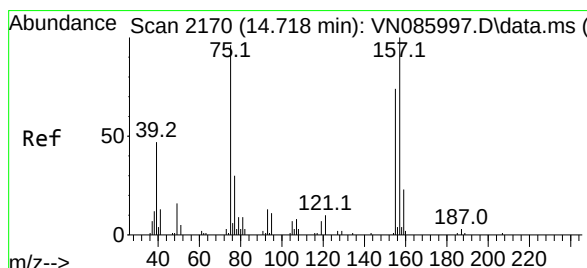
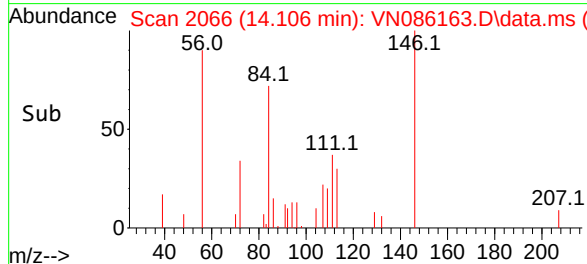
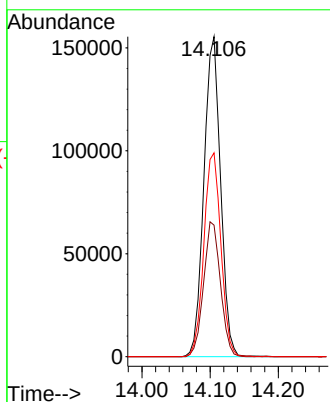
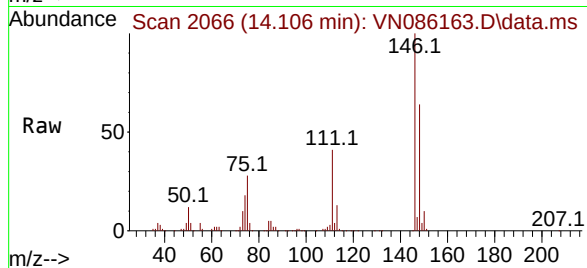
P001-BBDGA-001-01MS

Tgt Ion:	146	Resp:	264604
Ion Ratio	Lower	Upper	
146	100		
111	42.5	22.3	66.8
148	65.0	32.1	96.5

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/31/2025

Supervised By :Mahesh Dadoda 03/31/2025



#92

1,2-Dibromo-3-Chloropropane

Concen: 40.881 ug/l

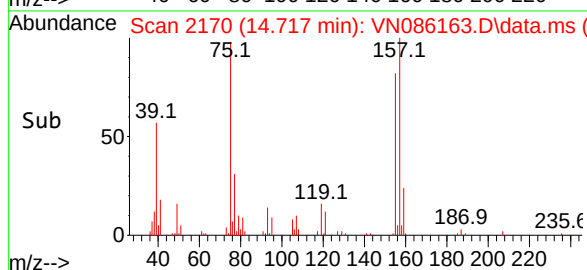
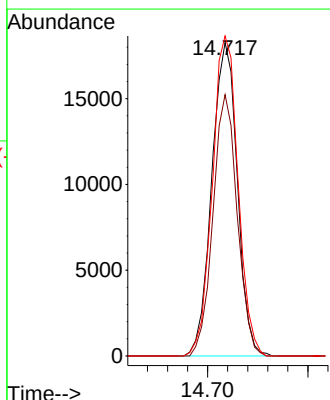
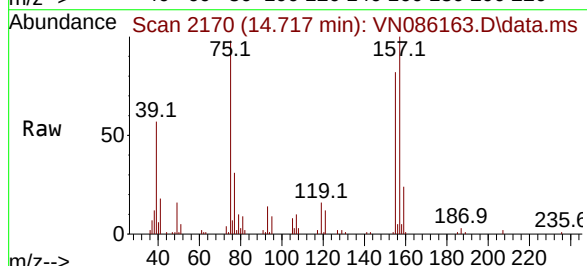
RT: 14.717 min Scan# 2170

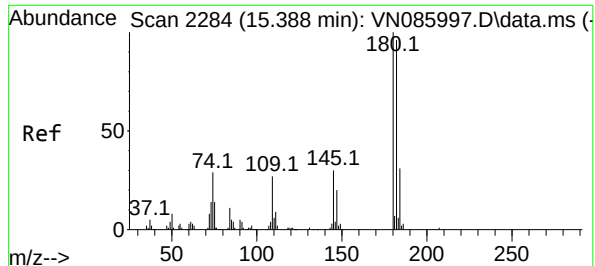
Delta R.T. -0.000 min

Lab File: VN086163.D

Acq: 28 Mar 2025 20:18

Tgt Ion:	75	Resp:	32206
Ion Ratio	Lower	Upper	
75	100		
155	79.4	41.0	123.0
157	102.7	53.7	161.1





#93

1,2,4-Trichlorobenzene

Concen: 42.343 ug/l

RT: 15.388 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN086163.D

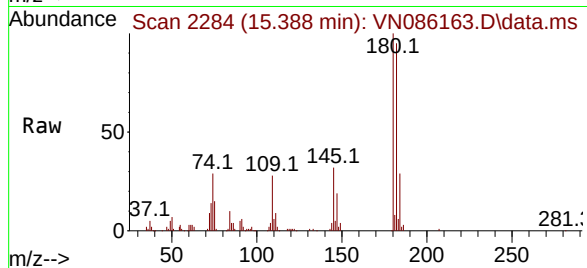
Acq: 28 Mar 2025 20:18

Instrument :

MSVOA_N

ClientSampleId :

P001-BBDGA-001-01MS



Tgt Ion:180 Resp: 124095

Ion Ratio Lower Upper

180 100

182 95.4 47.0 141.0

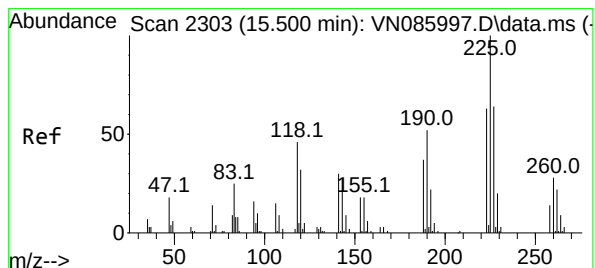
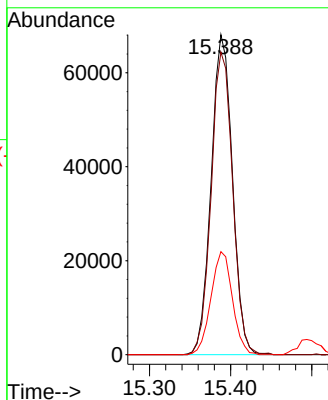
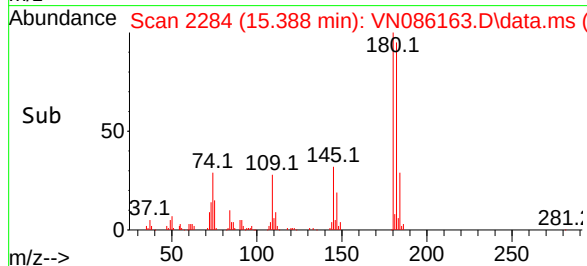
145 32.5 15.5 46.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/31/2025

Supervised By :Mahesh Dadoda 03/31/2025



#94

Hexachlorobutadiene

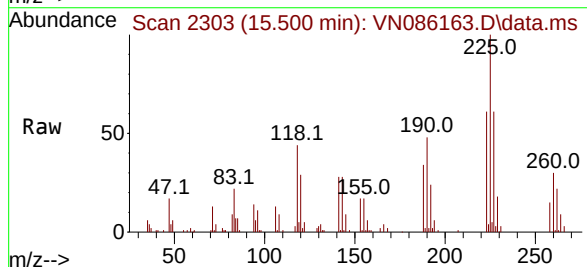
Concen: 37.800 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. -0.000 min

Lab File: VN086163.D

Acq: 28 Mar 2025 20:18



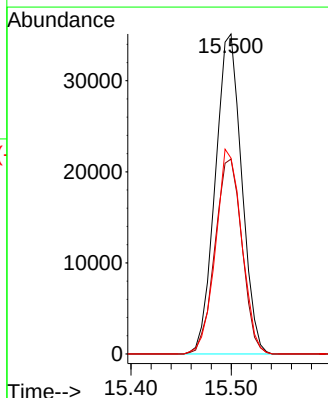
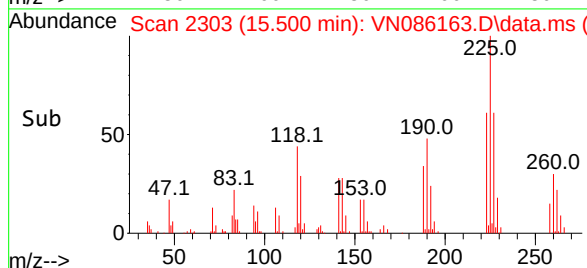
Tgt Ion:225 Resp: 64271

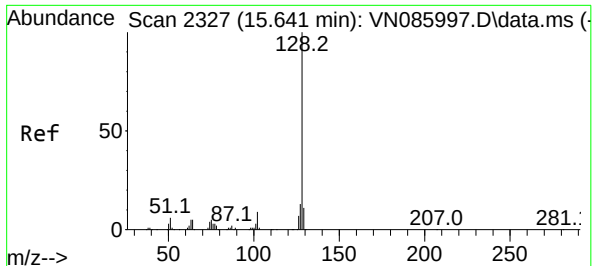
Ion Ratio Lower Upper

225 100

223 62.2 31.3 93.9

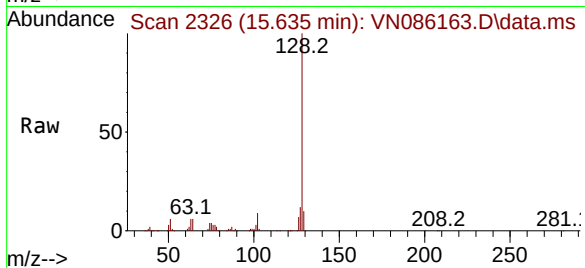
227 63.2 32.1 96.3





#95
Naphthalene
Concen: 42.128 ug/l
RT: 15.635 min Scan# 21
Delta R.T. -0.006 min
Lab File: VN086163.D
Acq: 28 Mar 2025 20:18

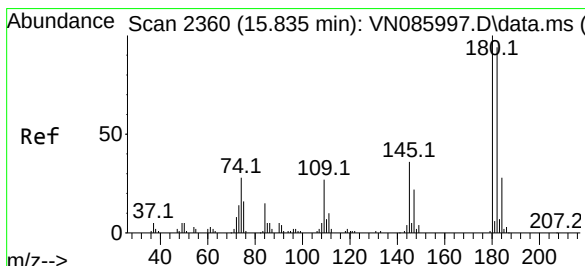
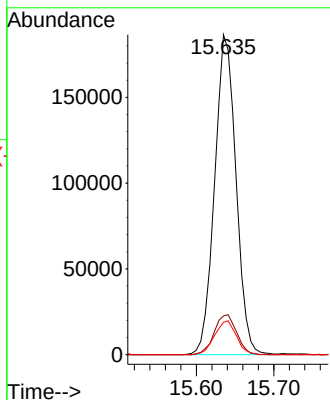
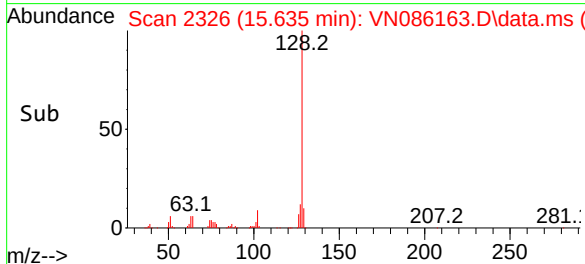
Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-001-01MS



Tgt Ion:128 Resp: 35750
Ion Ratio Lower Upper
128 100
127 13.1 10.2 15.4
129 10.8 9.0 13.6

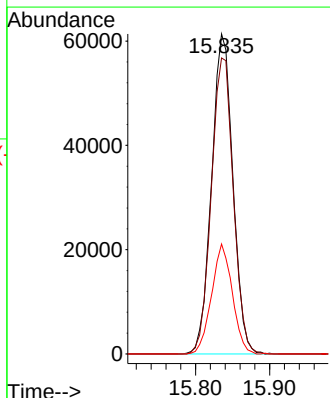
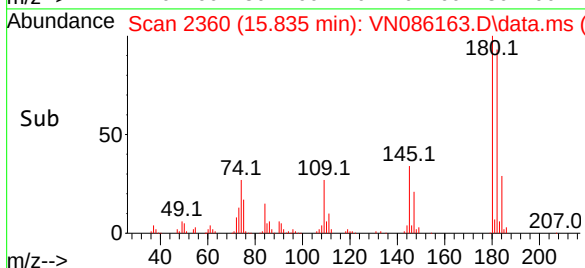
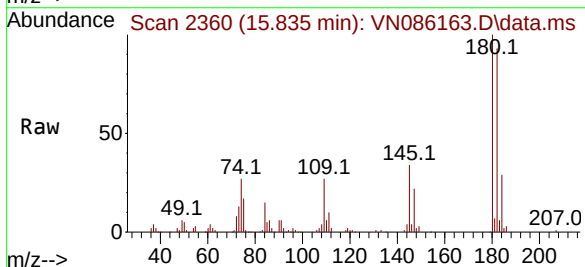
Manual Integrations
APPROVED

Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#96
1,2,3-Trichlorobenzene
Concen: 44.061 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VN086163.D
Acq: 28 Mar 2025 20:18

Tgt Ion:180 Resp: 122528
Ion Ratio Lower Upper
180 100
182 95.3 47.5 142.5
145 33.4 17.7 53.1



Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	03/26/25	
Project:	RFP 905		Date Received:	03/27/25	
Client Sample ID:	P001-BBDGA-001-01MSD		SDG No.:	Q1664	
Lab Sample ID:	Q1664-06MSD		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	SPLP VOA	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086164.D	1		03/28/25 20:42	VN032825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	45.5		0.22	5.00	ug/L
74-87-3	Chloromethane	47.5		0.32	5.00	ug/L
75-01-4	Vinyl Chloride	48.2		0.26	5.00	ug/L
74-83-9	Bromomethane	43.9		1.40	5.00	ug/L
75-00-3	Chloroethane	40.5		0.47	5.00	ug/L
75-69-4	Trichlorofluoromethane	39.6		0.33	5.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	50.6		0.25	5.00	ug/L
75-35-4	1,1-Dichloroethene	53.6		0.23	5.00	ug/L
67-64-1	Acetone	290		1.50	25.0	ug/L
75-15-0	Carbon Disulfide	44.0		0.21	5.00	ug/L
1634-04-4	Methyl tert-butyl Ether	52.5		0.16	5.00	ug/L
79-20-9	Methyl Acetate	63.4		0.27	5.00	ug/L
75-09-2	Methylene Chloride	54.9		0.28	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	52.0		0.23	5.00	ug/L
75-34-3	1,1-Dichloroethane	52.4		0.23	5.00	ug/L
110-82-7	Cyclohexane	51.9		1.50	5.00	ug/L
78-93-3	2-Butanone	270		0.98	25.0	ug/L
56-23-5	Carbon Tetrachloride	49.3		0.25	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	54.2		0.19	5.00	ug/L
74-97-5	Bromochloromethane	55.4		0.22	5.00	ug/L
67-66-3	Chloroform	51.6		0.25	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	49.7		0.20	5.00	ug/L
108-87-2	Methylcyclohexane	53.8		0.16	5.00	ug/L
71-43-2	Benzene	53.8		0.15	5.00	ug/L
107-06-2	1,2-Dichloroethane	48.7		0.22	5.00	ug/L
79-01-6	Trichloroethene	73.7		0.090	5.00	ug/L
78-87-5	1,2-Dichloropropane	56.5		0.20	5.00	ug/L
75-27-4	Bromodichloromethane	52.2		0.22	5.00	ug/L
108-10-1	4-Methyl-2-Pentanone	280		0.68	25.0	ug/L
108-88-3	Toluene	56.3		0.14	5.00	ug/L

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	03/26/25	
Project:	RFP 905		Date Received:	03/27/25	
Client Sample ID:	P001-BBDGA-001-01MSD		SDG No.:	Q1664	
Lab Sample ID:	Q1664-06MSD		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	SPLP VOA	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086164.D	1		03/28/25 20:42	VN032825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	52.5		0.17	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	53.6		0.16	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	54.6		0.21	5.00	ug/L
591-78-6	2-Hexanone	290		0.89	25.0	ug/L
124-48-1	Dibromochloromethane	52.6		0.18	5.00	ug/L
106-93-4	1,2-Dibromoethane	53.1		0.15	5.00	ug/L
127-18-4	Tetrachloroethene	80.7		0.23	5.00	ug/L
108-90-7	Chlorobenzene	50.8		0.12	5.00	ug/L
100-41-4	Ethyl Benzene	54.3		0.13	5.00	ug/L
179601-23-1	m/p-Xylenes	110		0.24	10.0	ug/L
95-47-6	o-Xylene	57.2		0.12	5.00	ug/L
100-42-5	Styrene	57.4		0.15	5.00	ug/L
75-25-2	Bromoform	48.2		0.19	5.00	ug/L
98-82-8	Isopropylbenzene	51.5		0.12	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	17.7		0.26	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	50.3		0.16	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	47.5		0.19	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	48.6		0.16	5.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	44.3		0.53	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	47.5		0.20	5.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	49.9		0.20	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.4		74 - 125	97%	SPK: 50
1868-53-7	Dibromofluoromethane	41.4		75 - 124	83%	SPK: 50
2037-26-5	Toluene-d8	51.8		86 - 113	104%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.6		77 - 121	105%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	211000	8.224			
540-36-3	1,4-Difluorobenzene	340000	9.1			
3114-55-4	Chlorobenzene-d5	312000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	165000	13.788			

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-001-01MSD	SDG No.:	Q1664
Lab Sample ID:	Q1664-06MSD	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5	Units:	mL
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086164.D	1		03/28/25 20:42	VN032825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032825\
 Data File : VN086164.D
 Acq On : 28 Mar 2025 20:42
 Operator : JC\MD
 Sample : Q1664-06MSD
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 P001-BBDGA-001-01MSD

Manual Integrations APPROVED

Reviewed By :John Carlone 03/31/2025
 Supervised By :Mahesh Dadoda 03/31/2025

Quant Time: Mar 28 23:40:57 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 19 03:20:56 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	211032	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	339619	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	311913	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	165361	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	139967	48.436	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	96.880%		
35) Dibromofluoromethane	8.165	113	98177	41.416	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	82.840%		
50) Toluene-d8	10.565	98	445431	51.775	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	103.540%		
62) 4-Bromofluorobenzene	12.847	95	161458	52.623	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	105.240%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	127192	45.493	ug/l	98
3) Chloromethane	2.359	50	116321	47.458	ug/l	97
4) Vinyl Chloride	2.512	62	120703	48.164	ug/l	99
5) Bromomethane	2.948	94	74985	43.926	ug/l	98
6) Chloroethane	3.112	64	64005	40.484	ug/l	98
7) Trichlorofluoromethane	3.501	101	178447	39.610	ug/l	99
8) Diethyl Ether	3.959	74	72670	52.692	ug/l	94
9) 1,1,2-Trichlorotrifluo...	4.371	101	121188	50.614	ug/l	99
10) Methyl Iodide	4.589	142	158899	50.932	ug/l	99
11) Tert butyl alcohol	5.512	59	83937	205.156	ug/l	98
12) 1,1-Dichloroethene	4.336	96	115856	53.587	ug/l	97
13) Acrolein	4.177	56	90073	206.411	ug/l	98
14) Allyl chloride	5.018	41	135720	50.318	ug/l	98
15) Acrylonitrile	5.718	53	285641	264.353	ug/l	99
16) Acetone	4.424	43	253604	287.258	ug/l	98
17) Carbon Disulfide	4.712	76	312709	43.980	ug/l	100
18) Methyl Acetate	5.024	43	138411	63.366	ug/l	97
19) Methyl tert-butyl Ether	5.795	73	371659	52.460	ug/l	98
20) Methylene Chloride	5.277	84	141769	54.892	ug/l	95
21) trans-1,2-Dichloroethene	5.783	96	122782	51.966	ug/l	98
22) Diisopropyl ether	6.671	45	303286	52.766	ug/l	99
23) Vinyl Acetate	6.671	43	165978	38.093	ug/l #	66
24) 1,1-Dichloroethane	6.565	63	221680	52.448	ug/l	99
25) 2-Butanone	7.483	43	340080	266.962	ug/l	96
26) 2,2-Dichloropropane	7.489	77	160675	39.486	ug/l	98
27) cis-1,2-Dichloroethene	7.483	96	145644	54.244	ug/l	98
28) Bromochloromethane	7.812	49	99124	55.354	ug/l	93
29) Tetrahydrofuran	7.836	42	221840	282.076	ug/l	94
30) Chloroform	7.965	83	241165	51.621	ug/l	100
31) Cyclohexane	8.253	56	186803	51.880	ug/l	98
32) 1,1,1-Trichloroethane	8.165	97	219727	49.686	ug/l	99
36) 1,1-Dichloropropene	8.371	75	163612	52.417	ug/l	99
37) Ethyl Acetate	7.559	43	120762	45.859	ug/l	98
38) Carbon Tetrachloride	8.359	117	202403	49.318	ug/l	99
39) Methylcyclohexane	9.600	83	166661	53.817	ug/l	96
40) Benzene	8.606	78	527165	53.800	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032825\
 Data File : VN086164.D
 Acq On : 28 Mar 2025 20:42
 Operator : JC\MD
 Sample : Q1664-06MSD
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 P001-BBDGA-001-01MSD

Quant Time: Mar 28 23:40:57 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 19 03:20:56 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 03/31/2025
 Supervised By : Mahesh Dadoda 03/31/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	75956	60.406	ug/l	92
42) 1,2-Dichloroethane	8.665	62	166260	48.695	ug/l	98
43) Isopropyl Acetate	8.683	43	225330	39.488	ug/l	99
44) Trichloroethene	9.347	130	187133	73.686	ug/l	97
45) 1,2-Dichloropropane	9.618	63	125905	56.494	ug/l	97
46) Dibromomethane	9.706	93	91354	52.122	ug/l	99
47) Bromodichloromethane	9.883	83	191064	52.160	ug/l	99
48) Methyl methacrylate	9.677	41	97891	51.987	ug/l	96
49) 1,4-Dioxane	9.694	88	46544	1045.620	ug/l #	91
51) 4-Methyl-2-Pentanone	10.441	43	713371	283.468	ug/l	97
52) Toluene	10.630	92	338846	56.343	ug/l	100
53) t-1,3-Dichloropropene	10.835	75	186698	52.481	ug/l	100
54) cis-1,3-Dichloropropene	10.312	75	201114	53.583	ug/l	98
55) 1,1,2-Trichloroethane	11.012	97	125256	54.569	ug/l	98
56) Ethyl methacrylate	10.871	69	179897	50.201	ug/l	98
57) 1,3-Dichloropropane	11.159	76	213787	54.836	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.159	63	416791	293.456	ug/l	98
59) 2-Hexanone	11.194	43	536279	292.519	ug/l	97
60) Dibromochloromethane	11.353	129	155904	52.636	ug/l	98
61) 1,2-Dibromoethane	11.465	107	125166	53.116	ug/l	99
64) Tetrachloroethene	11.100	164	200899	80.742	ug/l	98
65) Chlorobenzene	11.888	112	362817	50.833	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.959	131	135988	51.254	ug/l	99
67) Ethyl Benzene	11.959	91	619894	54.295	ug/l	99
68) m/p-Xylenes	12.071	106	497659	110.900	ug/l	99
69) o-Xylene	12.394	106	235729	57.235	ug/l	97
70) Styrene	12.406	104	403513	57.360	ug/l	99
71) Bromoform	12.576	173	106894	48.194	ug/l #	99
73) Isopropylbenzene	12.694	105	581850	51.526	ug/l	99
74) N-amyl acetate	12.488	43	183222	48.497	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.935	83	67661	17.711	ug/l	98
76) 1,2,3-Trichloropropane	12.988	75	164661m	44.478	ug/l	
77) Bromobenzene	12.976	156	152223	48.344	ug/l	99
78) n-propylbenzene	13.035	91	688082	53.812	ug/l	99
79) 2-Chlorotoluene	13.123	91	439506	51.748	ug/l	100
80) 1,3,5-Trimethylbenzene	13.171	105	505392	53.010	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.735	75	66221	47.291	ug/l	96
82) 4-Chlorotoluene	13.218	91	441745	50.578	ug/l	98
83) tert-Butylbenzene	13.435	119	413107	50.663	ug/l	98
84) 1,2,4-Trimethylbenzene	13.476	105	515282	53.586	ug/l	99
85) sec-Butylbenzene	13.612	105	578990	54.431	ug/l	99
86) p-Isopropyltoluene	13.723	119	491467	54.580	ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	285296	50.267	ug/l	100
88) 1,4-Dichlorobenzene	13.812	146	283074	47.471	ug/l	99
89) n-Butylbenzene	14.053	91	395798	53.978	ug/l	98
90) Hexachloroethane	14.329	117	95068	45.756	ug/l	97
91) 1,2-Dichlorobenzene	14.106	146	274237	48.605	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	33782	44.299	ug/l	98
93) 1,2,4-Trichlorobenzene	15.388	180	134893	47.549	ug/l	99
94) Hexachlorobutadiene	15.494	225	69127	41.999	ug/l	99
95) Naphthalene	15.635	128	397198	48.351	ug/l	99
96) 1,2,3-Trichlorobenzene	15.835	180	134358	49.911	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032825\
Data File : VN086164.D
Acq On : 28 Mar 2025 20:42
Operator : JC\MD
Sample : Q1664-06MSD
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Mar 28 23:40:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 19 03:20:56 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-001-01MSD

Manual Integrations
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Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025

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

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

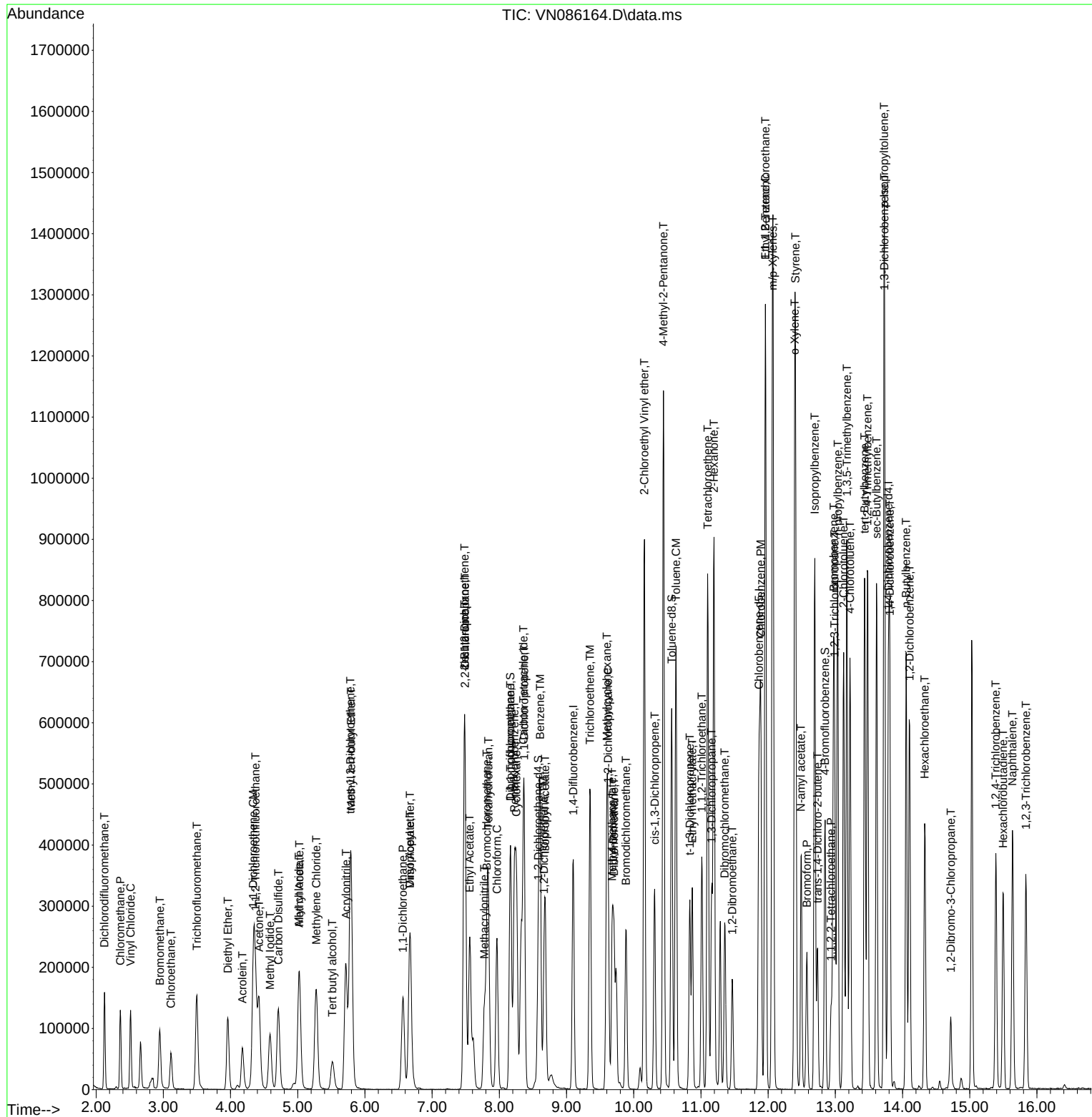
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Data File : VN086164.D
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Operator : JC\MD
Sample : Q1664-06MSD
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 27 Sample Multiplier: 1

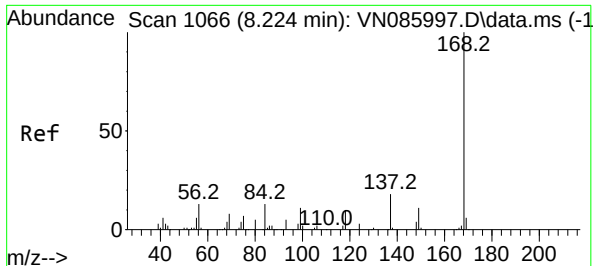
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QLast Update : Wed Mar 19 03:20:56 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-001-01MSD

Manual Integrations
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Reviewed By : John Carlone 03/31/2025
Supervised By : Mahesh Dadoda 03/31/2025





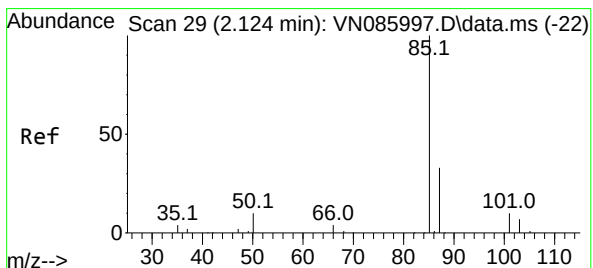
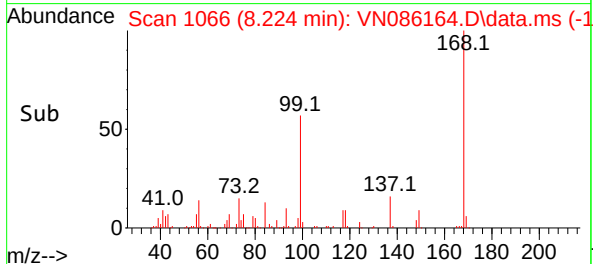
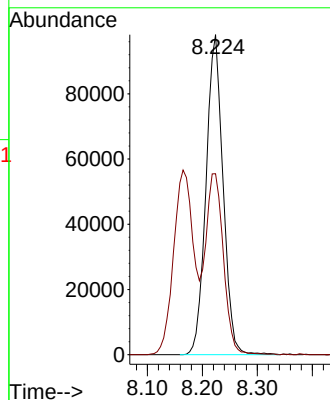
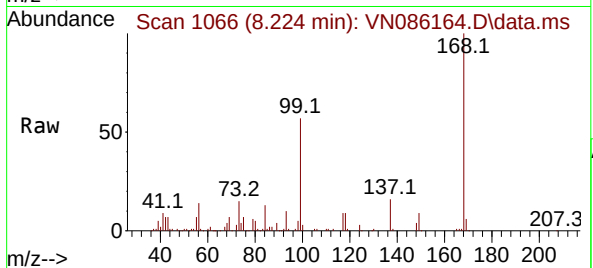
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN086164.D
Acq: 28 Mar 2025 20:42

Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-001-01MSD

Tgt Ion:168 Resp: 21103
Ion Ratio Lower Upper
168 100
99 56.5 49.4 74.2

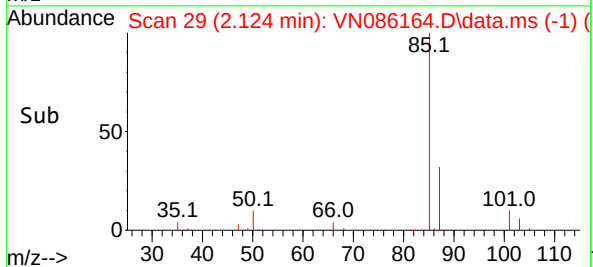
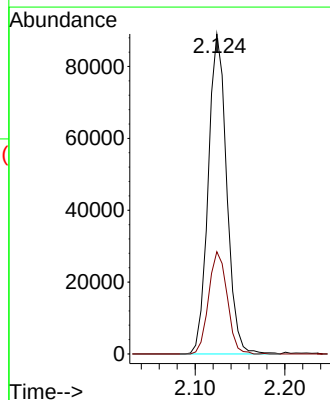
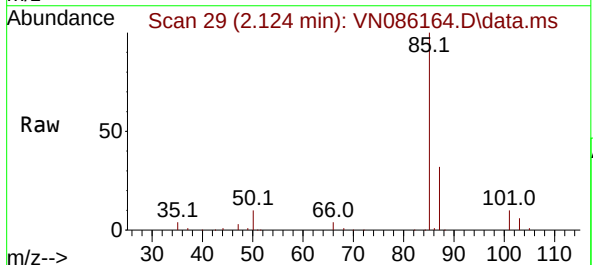
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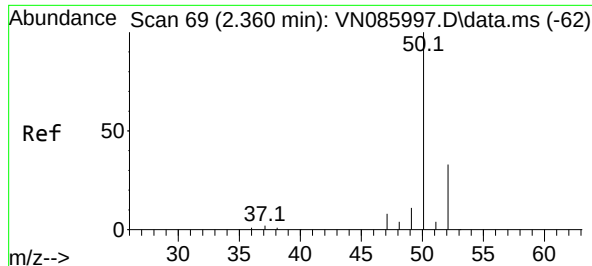
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#2
Dichlorodifluoromethane
Concen: 45.493 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN086164.D
Acq: 28 Mar 2025 20:42

Tgt Ion: 85 Resp: 127192
Ion Ratio Lower Upper
85 100
87 31.9 16.5 49.5





#3

Chloromethane

Concen: 47.458 ug/l

RT: 2.359 min Scan# 69

Delta R.T. -0.000 min

Lab File: VN086164.D

Acq: 28 Mar 2025 20:42

Instrument :

MSVOA_N

ClientSampleId :

P001-BBDGA-001-01MSD

Tgt Ion: 50 Resp: 11632

Ion Ratio Lower Upper

50 100

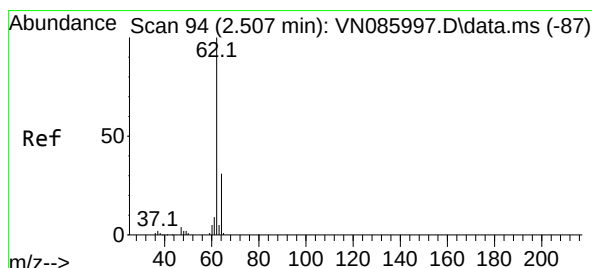
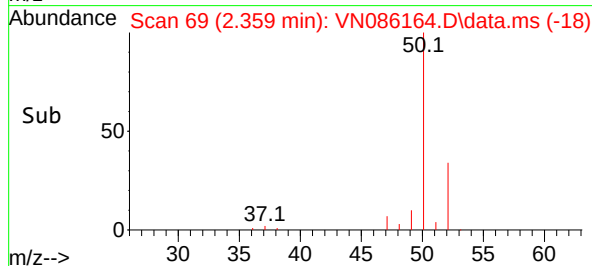
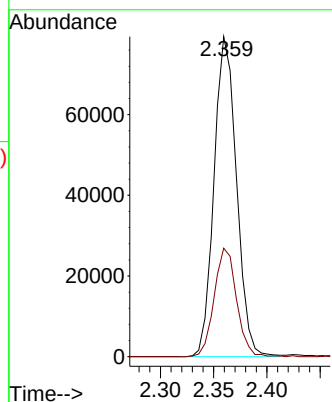
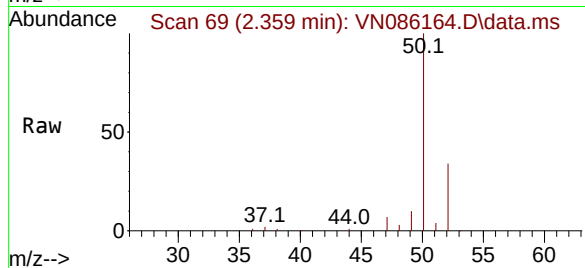
52 33.9 26.0 39.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/31/2025

Supervised By :Mahesh Dadoda 03/31/2025



#4

Vinyl Chloride

Concen: 48.164 ug/l

RT: 2.512 min Scan# 95

Delta R.T. 0.006 min

Lab File: VN086164.D

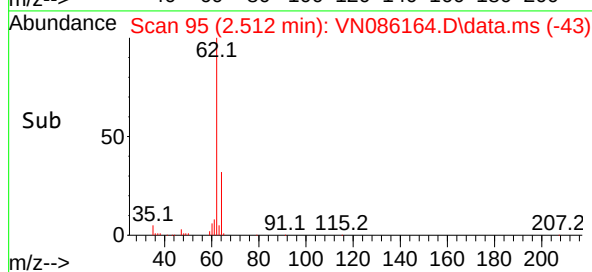
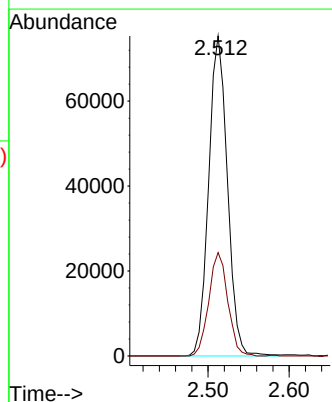
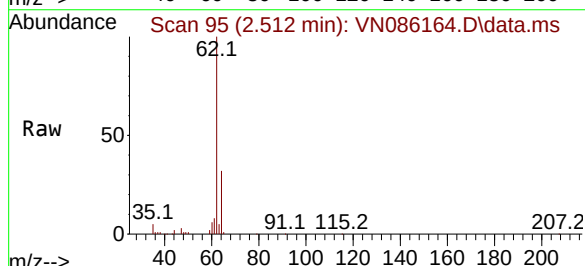
Acq: 28 Mar 2025 20:42

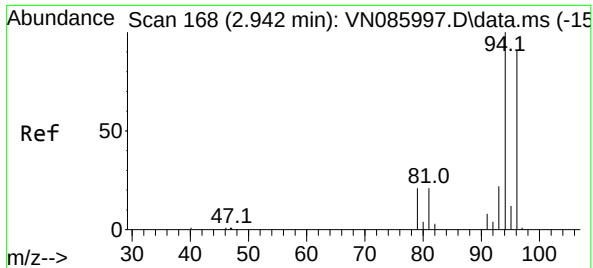
Tgt Ion: 62 Resp: 120703

Ion Ratio Lower Upper

62 100

64 32.3 25.2 37.8





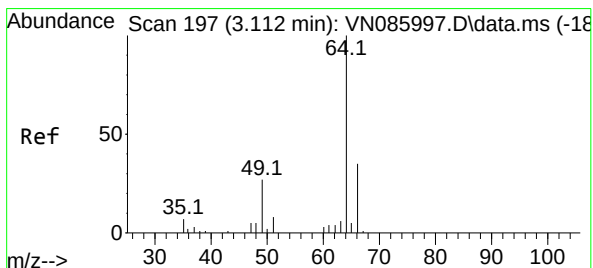
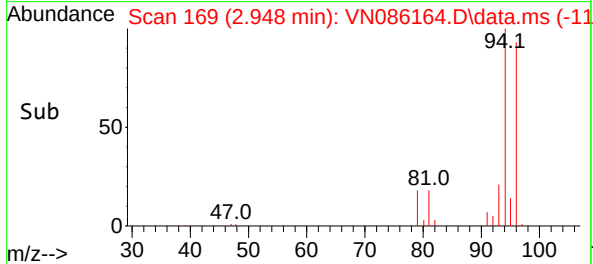
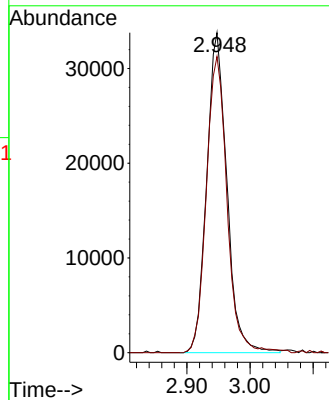
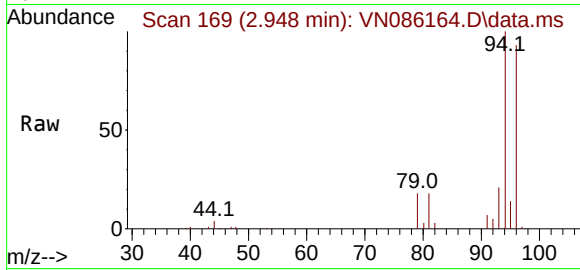
#5
Bromomethane
Concen: 43.926 ug/l
RT: 2.948 min Scan# 169
Delta R.T. 0.006 min
Lab File: VN086164.D
Acq: 28 Mar 2025 20:42

Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-001-01MSD

Tgt Ion: 94 Resp: 74985
Ion Ratio Lower Upper
94 100
96 92.5 72.8 109.2

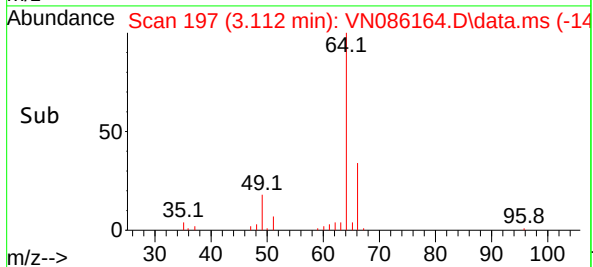
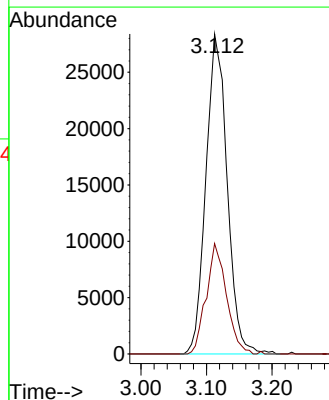
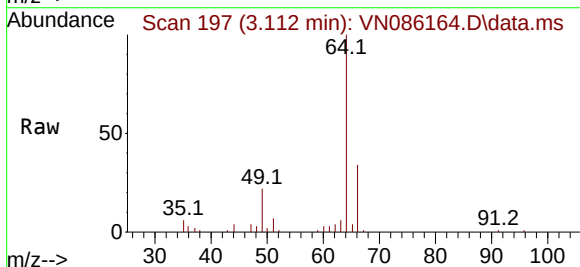
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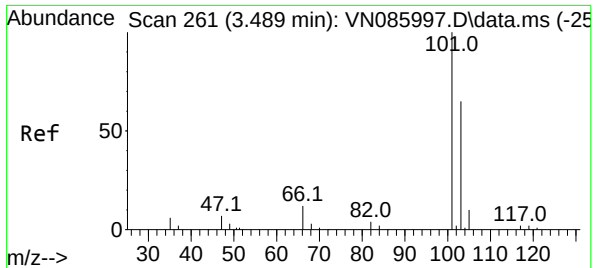
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#6
Chloroethane
Concen: 40.484 ug/l
RT: 3.112 min Scan# 197
Delta R.T. -0.000 min
Lab File: VN086164.D
Acq: 28 Mar 2025 20:42

Tgt Ion: 64 Resp: 64005
Ion Ratio Lower Upper
64 100
66 34.5 28.3 42.5





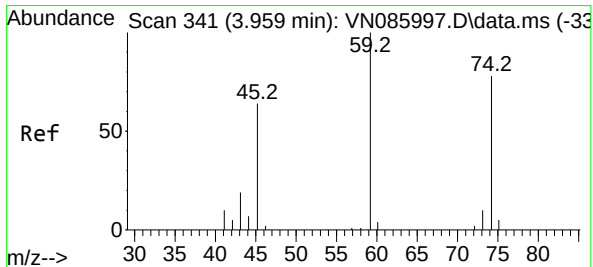
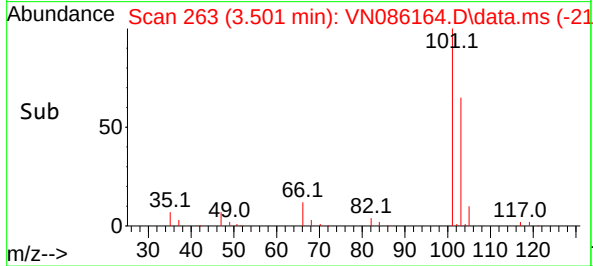
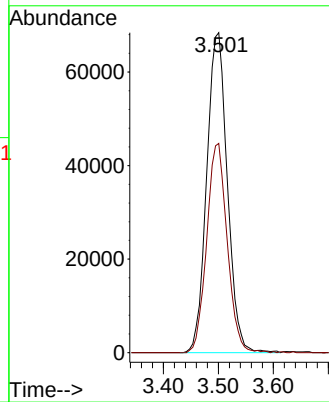
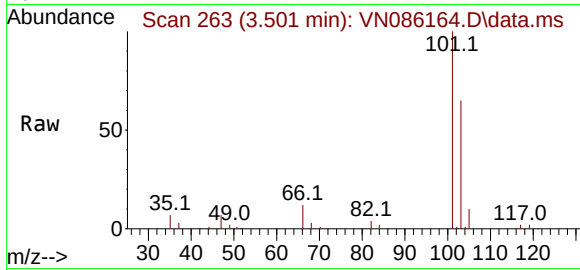
#7
Trichlorofluoromethane
Concen: 39.610 ug/l
RT: 3.501 min Scan# 263
Delta R.T. 0.012 min
Lab File: VN086164.D
Acq: 28 Mar 2025 20:42

Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-001-01MSD

Tgt Ion:101 Resp: 17844
Ion Ratio Lower Upper
101 100
103 65.4 51.7 77.5

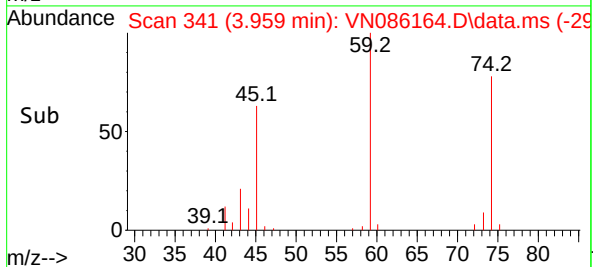
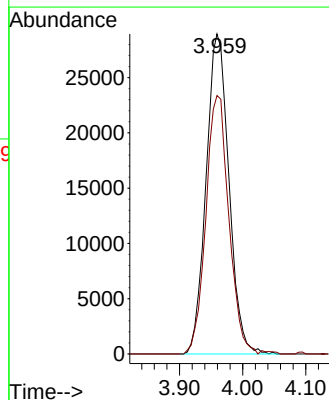
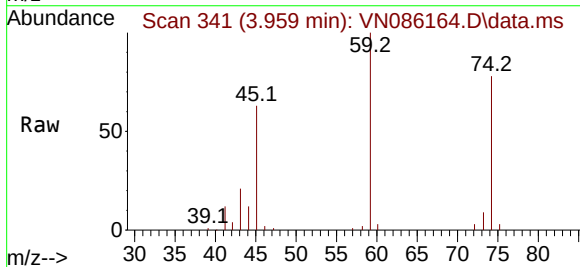
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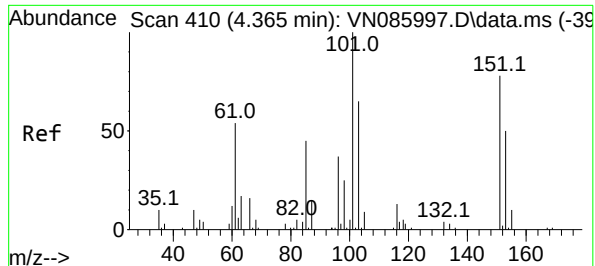
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#8
Diethyl Ether
Concen: 52.692 ug/l
RT: 3.959 min Scan# 341
Delta R.T. -0.000 min
Lab File: VN086164.D
Acq: 28 Mar 2025 20:42

Tgt Ion: 74 Resp: 72670
Ion Ratio Lower Upper
74 100
45 81.2 38.0 113.9





#9

1,1,2-Trichlorotrifluoroethane

Concen: 50.614 ug/l

RT: 4.371 min Scan# 411

Delta R.T. 0.006 min

Lab File: VN086164.D

Acq: 28 Mar 2025 20:42

Instrument :

MSVOA_N

ClientSampleId :

P001-BBDGA-001-01MSD

Tgt Ion:101 Resp: 12118

Ion Ratio Lower Upper

101 100

85 43.3 36.5 54.7

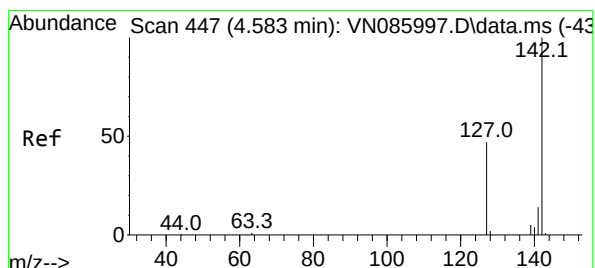
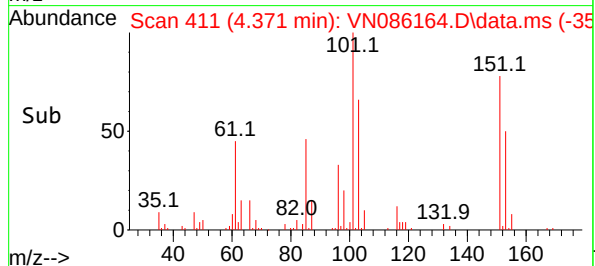
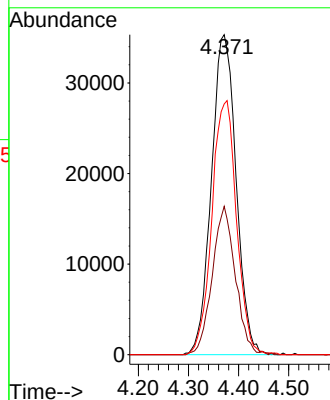
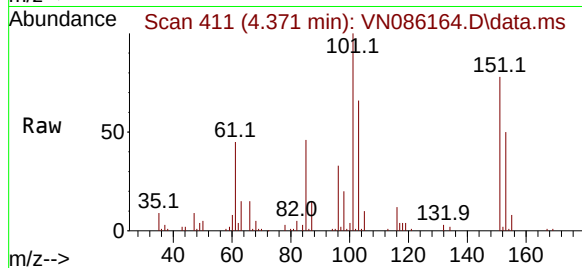
151 79.1 63.4 95.0

Manual Integrations

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Reviewed By :John Carlone 03/31/2025

Supervised By :Mahesh Dadoda 03/31/2025



#10

Methyl Iodide

Concen: 50.932 ug/l

RT: 4.589 min Scan# 448

Delta R.T. 0.006 min

Lab File: VN086164.D

Acq: 28 Mar 2025 20:42

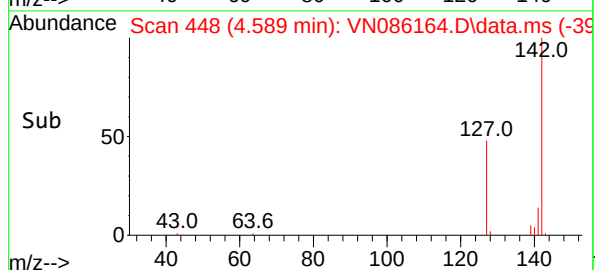
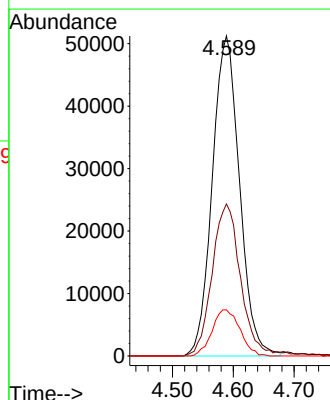
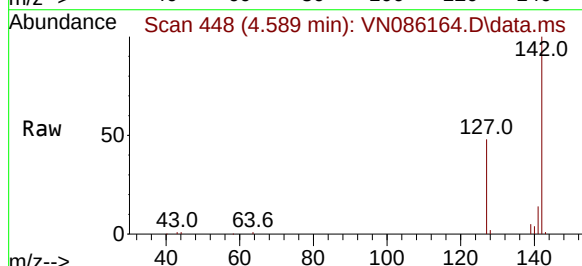
Tgt Ion:142 Resp: 158899

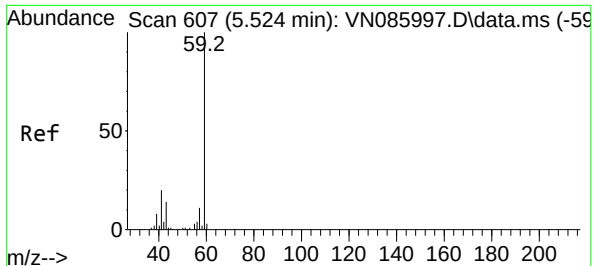
Ion Ratio Lower Upper

142 100

127 47.5 37.5 56.3

141 14.4 11.0 16.6





#11

Tert butyl alcohol

Concen: 205.156 ug/l

RT: 5.512 min Scan# 607

Delta R.T. -0.012 min

Lab File: VN086164.D

Acq: 28 Mar 2025 20:42

Tgt Ion: 59 Resp: 8393

Ion Ratio Lower Upper

59 100

57 10.5 7.9 11.9

Instrument :

MSVOA_N

ClientSampleId :

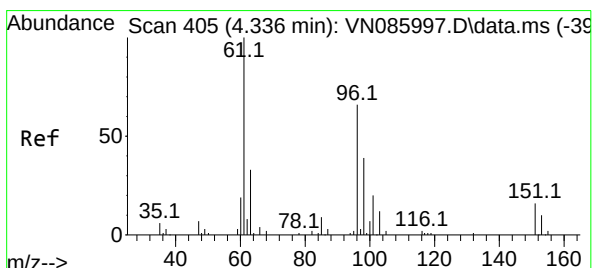
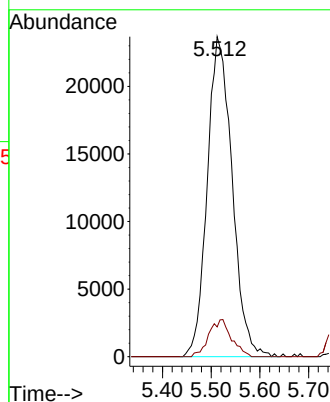
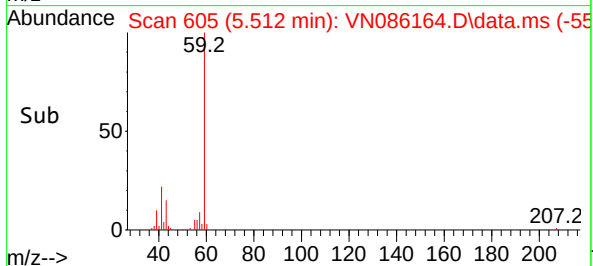
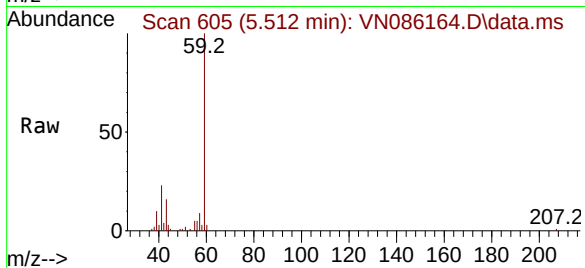
P001-BBDGA-001-01MSD

Manual Integrations

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Reviewed By :John Carlone 03/31/2025

Supervised By :Mahesh Dadoda 03/31/2025



#12

1,1-Dichloroethene

Concen: 53.587 ug/l

RT: 4.336 min Scan# 405

Delta R.T. -0.000 min

Lab File: VN086164.D

Acq: 28 Mar 2025 20:42

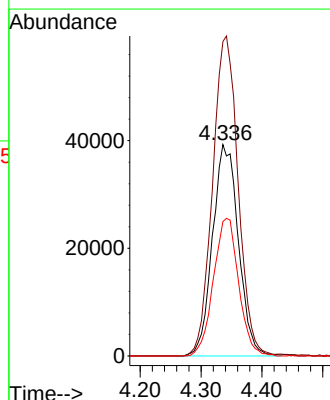
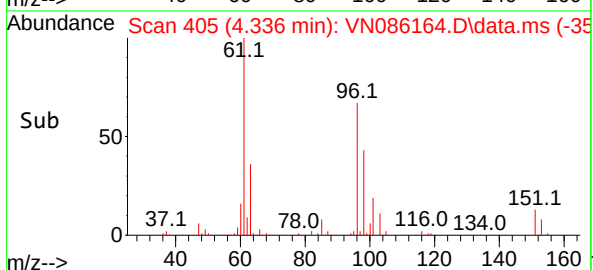
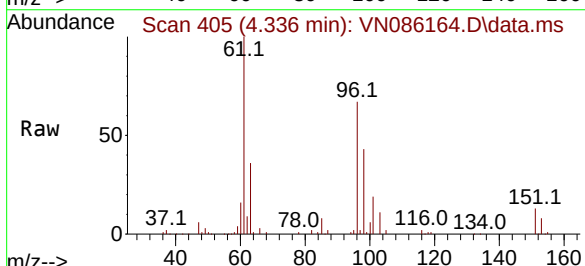
Tgt Ion: 96 Resp: 115856

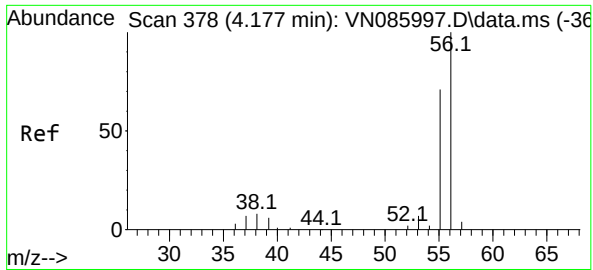
Ion Ratio Lower Upper

96 100

61 148.8 120.5 180.7

98 63.6 47.4 71.0





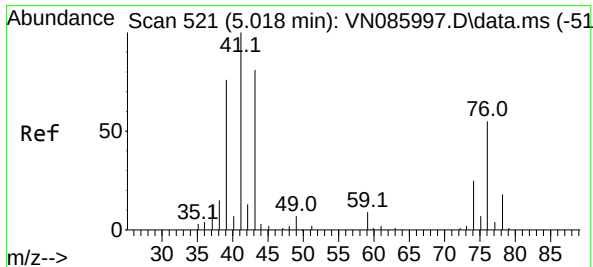
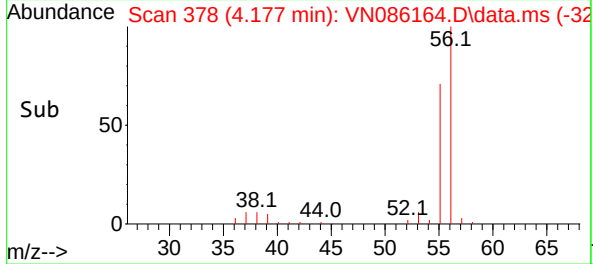
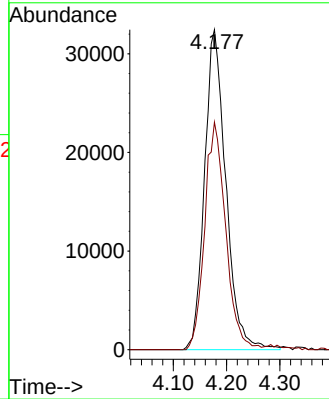
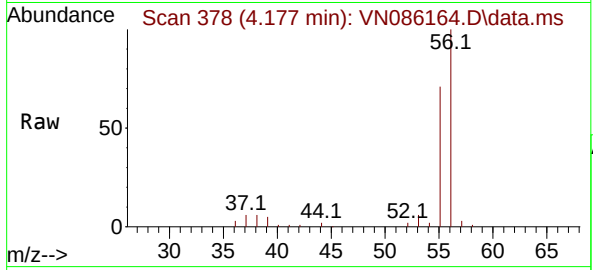
#13
Acrolein
Concen: 206.411 ug/l
RT: 4.177 min Scan# 31
Delta R.T. -0.000 min
Lab File: VN086164.D
Acq: 28 Mar 2025 20:42

Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-001-01MSD

Tgt Ion: 56 Resp: 9007
Ion Ratio Lower Upper
56 100
55 70.2 55.1 82.7

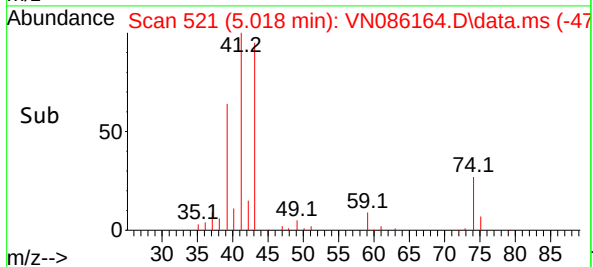
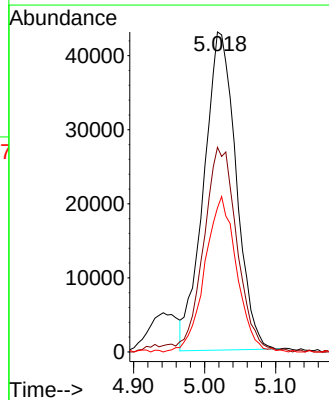
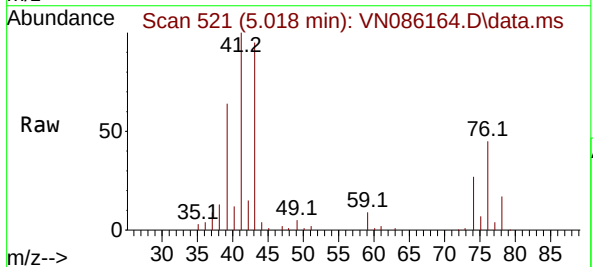
Manual Integrations
APPROVED

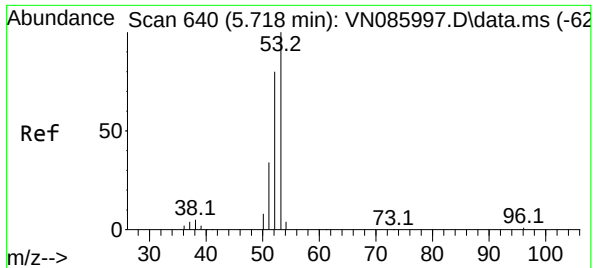
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#14
Allyl chloride
Concen: 50.318 ug/l
RT: 5.018 min Scan# 521
Delta R.T. -0.000 min
Lab File: VN086164.D
Acq: 28 Mar 2025 20:42

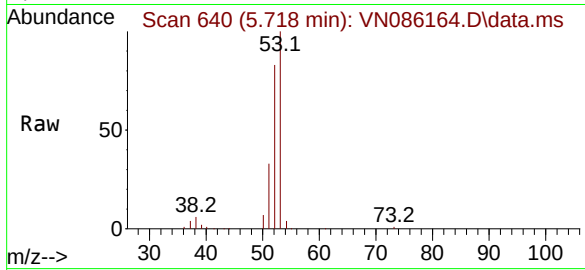
Tgt Ion: 41 Resp: 135720
Ion Ratio Lower Upper
41 100
39 67.1 55.5 83.3
76 48.1 39.1 58.7





#15
Acrylonitrile
Concen: 264.353 ug/l
RT: 5.718 min Scan# 640
Delta R.T. -0.000 min
Lab File: VN086164.D
Acq: 28 Mar 2025 20:42

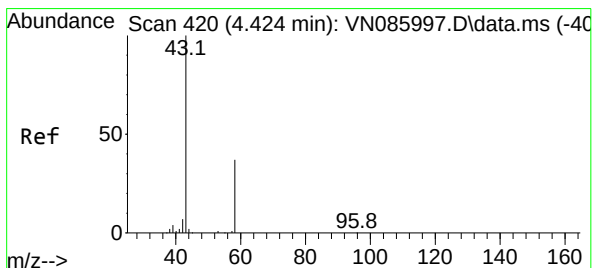
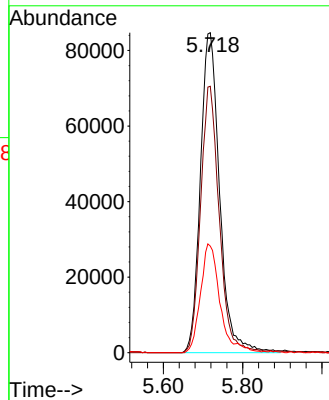
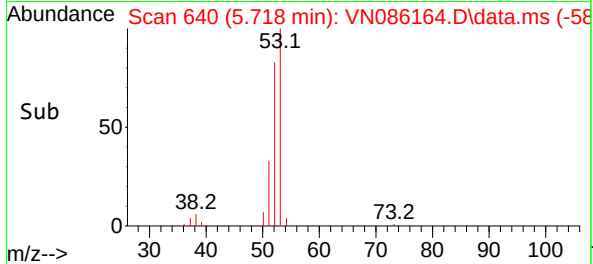
Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-001-01MSD



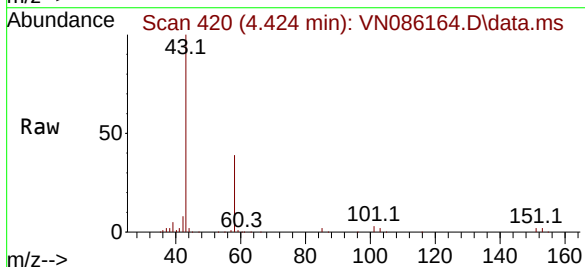
Tgt Ion: 53 Resp: 28564
Ion Ratio Lower Upper
53 100
52 80.4 63.9 95.9
51 34.4 27.1 40.7

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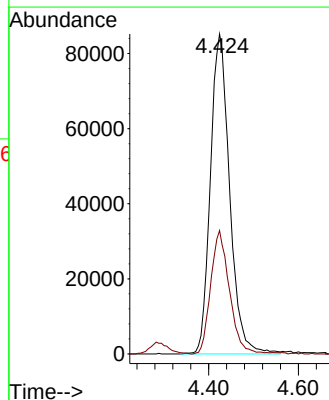
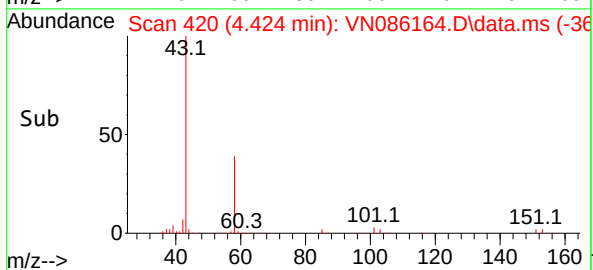
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025

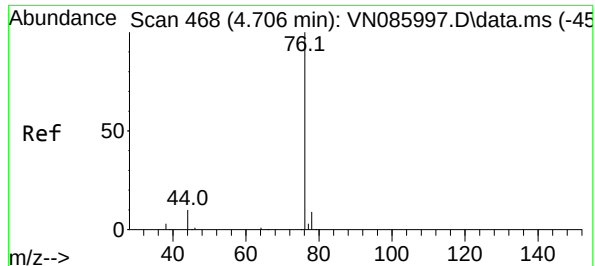


#16
Acetone
Concen: 287.258 ug/l
RT: 4.424 min Scan# 420
Delta R.T. -0.000 min
Lab File: VN086164.D
Acq: 28 Mar 2025 20:42



Tgt Ion: 43 Resp: 253604
Ion Ratio Lower Upper
43 100
58 38.2 29.4 44.2





#17

Carbon Disulfide

Concen: 43.980 ug/l

RT: 4.712 min Scan# 469

Delta R.T. 0.006 min

Lab File: VN086164.D

Acq: 28 Mar 2025 20:42

Instrument :

MSVOA_N

ClientSampleId :

P001-BBDGA-001-01MSD

Tgt Ion: 76 Resp: 312709

Ion Ratio Lower Upper

76 100

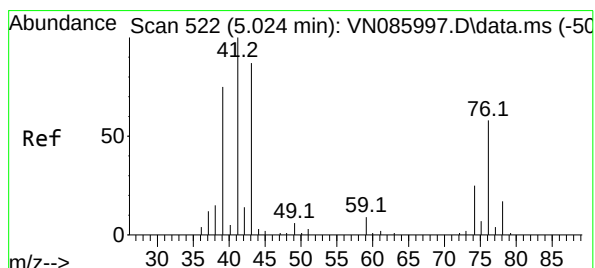
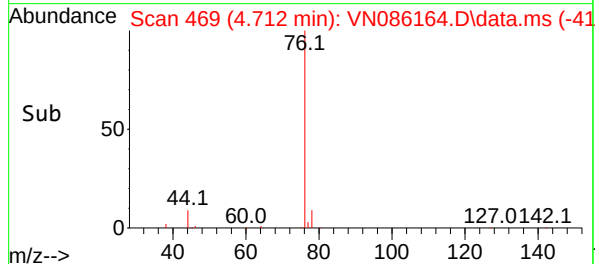
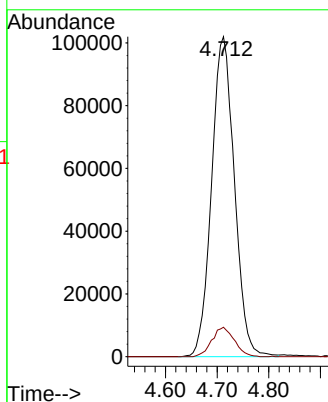
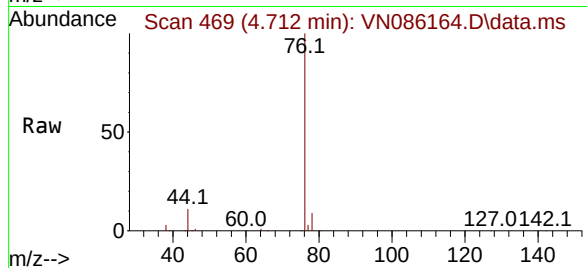
78 9.2 7.4 11.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/31/2025

Supervised By :Mahesh Dadoda 03/31/2025



#18

Methyl Acetate

Concen: 63.366 ug/l

RT: 5.024 min Scan# 522

Delta R.T. -0.000 min

Lab File: VN086164.D

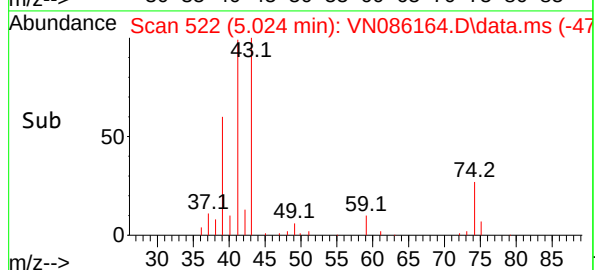
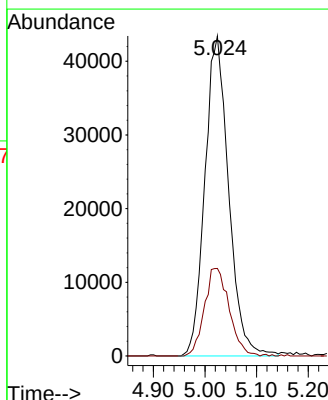
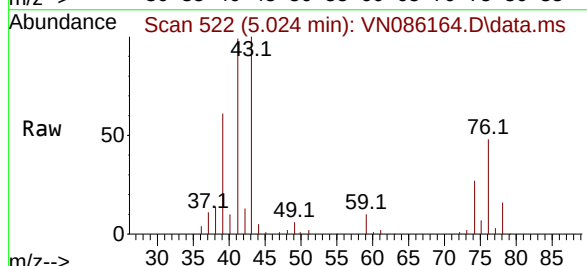
Acq: 28 Mar 2025 20:42

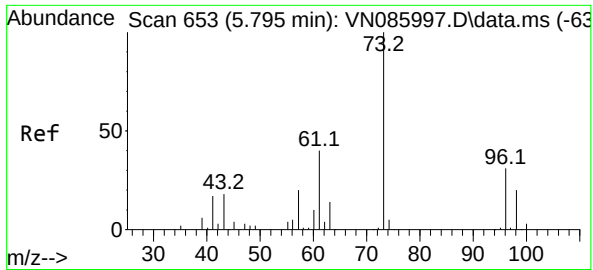
Tgt Ion: 43 Resp: 138411

Ion Ratio Lower Upper

43 100

74 28.5 23.9 35.9





#19

Methyl tert-butyl Ether

Concen: 52.460 ug/l

RT: 5.795 min Scan# 61

Delta R.T. -0.000 min

Lab File: VN086164.D

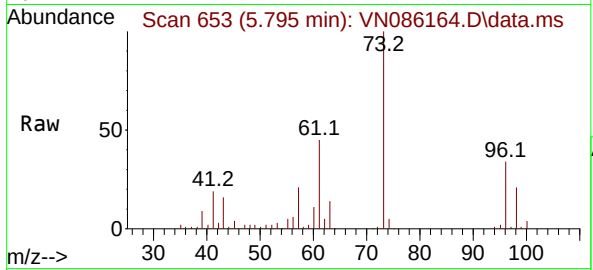
Acq: 28 Mar 2025 20:42

Instrument :

MSVOA_N

ClientSampleId :

P001-BBDGA-001-01MSD



Tgt Ion: 73 Resp: 371659

Ion Ratio Lower Upper

73 100

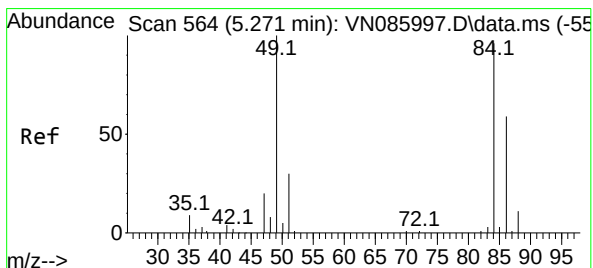
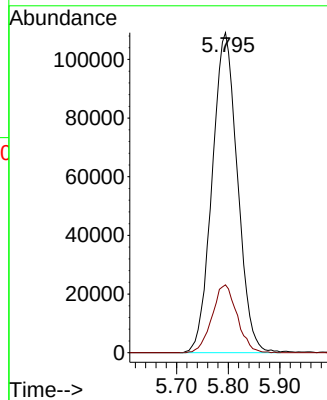
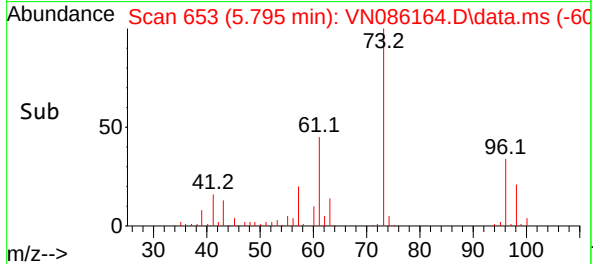
57 21.2 16.1 24.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/31/2025

Supervised By :Mahesh Dadoda 03/31/2025



#20

Methylene Chloride

Concen: 54.892 ug/l

RT: 5.277 min Scan# 565

Delta R.T. 0.006 min

Lab File: VN086164.D

Acq: 28 Mar 2025 20:42

Tgt Ion: 84 Resp: 141769

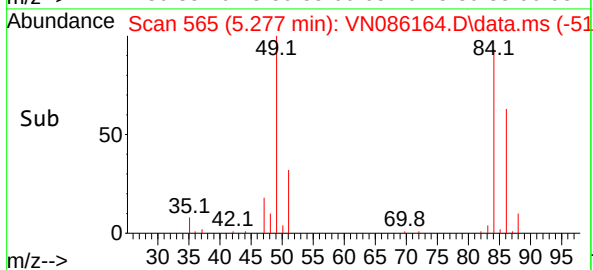
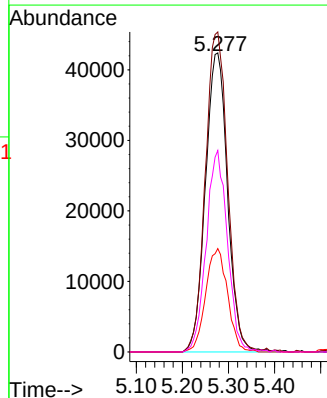
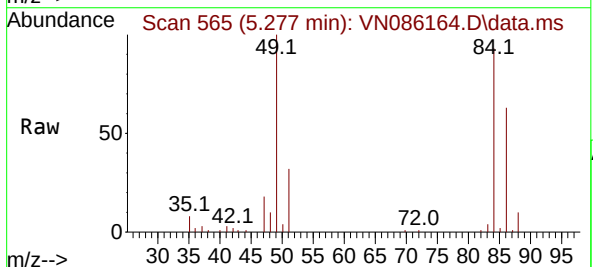
Ion Ratio Lower Upper

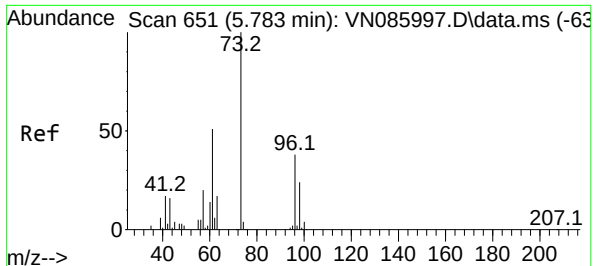
84 100

49 107.0 83.3 124.9

51 34.6 24.8 37.2

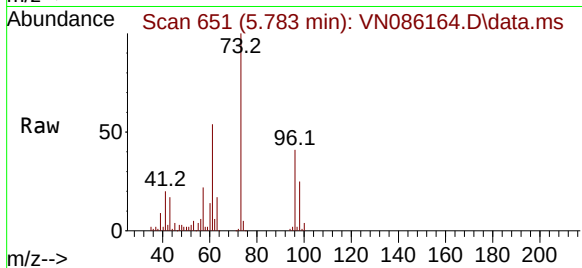
86 67.4 48.7 73.1





#21
trans-1,2-Dichloroethene
Concen: 51.966 ug/l
RT: 5.783 min Scan# 651
Delta R.T. -0.000 min
Lab File: VN086164.D
Acq: 28 Mar 2025 20:42

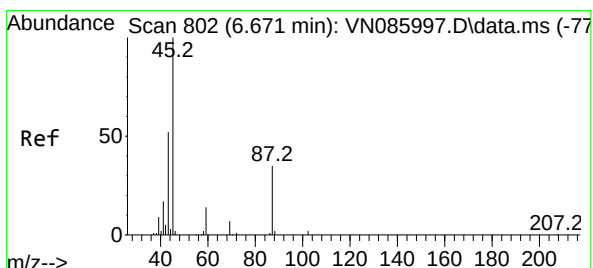
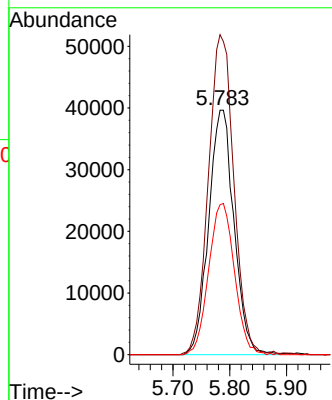
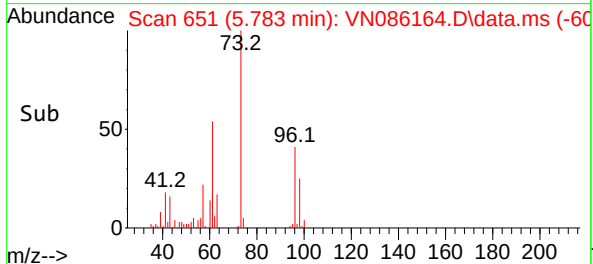
Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-001-01MSD



Tgt Ion: 96 Resp: 12278
Ion Ratio Lower Upper
96 100
61 130.9 106.6 160.0
98 61.3 50.0 75.0

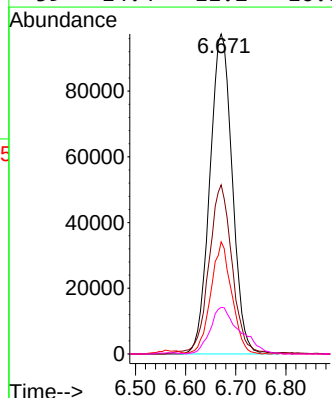
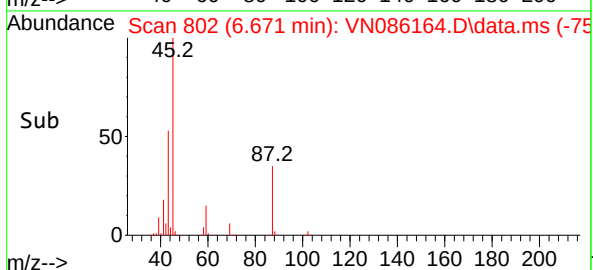
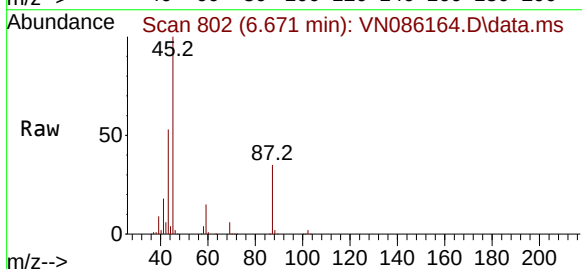
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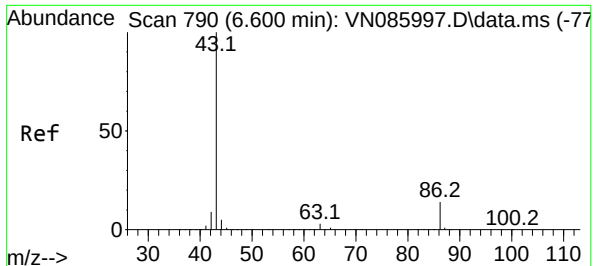
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#22
Diisopropyl ether
Concen: 52.766 ug/l
RT: 6.671 min Scan# 802
Delta R.T. -0.000 min
Lab File: VN086164.D
Acq: 28 Mar 2025 20:42

Tgt Ion: 45 Resp: 303286
Ion Ratio Lower Upper
45 100
43 52.5 41.2 61.8
87 34.9 28.5 42.7
59 14.4 11.2 16.8





#23

Vinyl Acetate

Concen: 38.093 ug/l

RT: 6.671 min Scan# 802

Delta R.T. 0.071 min

Lab File: VN086164.D

Acq: 28 Mar 2025 20:42

Instrument :

MSVOA_N

ClientSampleId :

P001-BBDGA-001-01MSD

Tgt Ion: 43 Resp: 165978

Ion Ratio Lower Upper

43 100

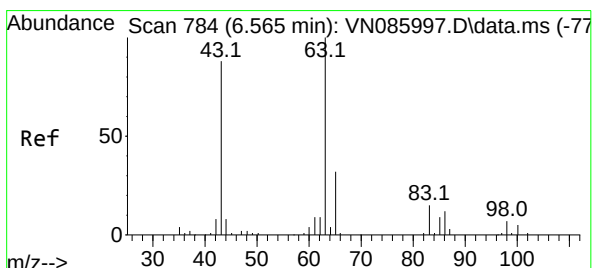
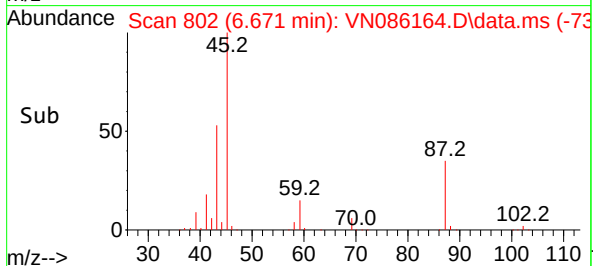
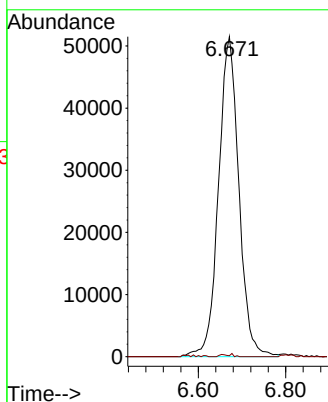
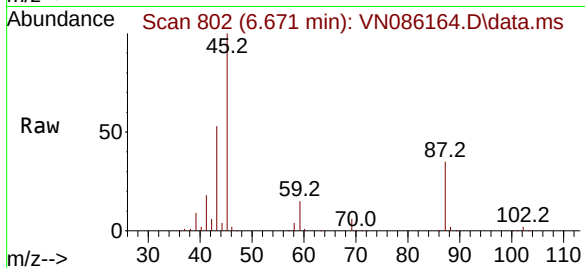
86 0.3 11.2 16.8

Manual Integrations

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Reviewed By :John Carlone 03/31/2025

Supervised By :Mahesh Dadoda 03/31/2025



#24

1,1-Dichloroethane

Concen: 52.448 ug/l

RT: 6.565 min Scan# 784

Delta R.T. -0.000 min

Lab File: VN086164.D

Acq: 28 Mar 2025 20:42

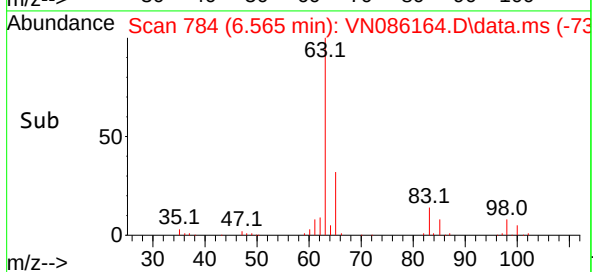
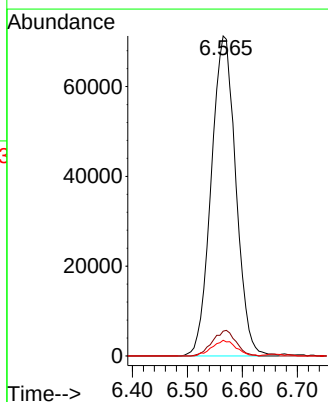
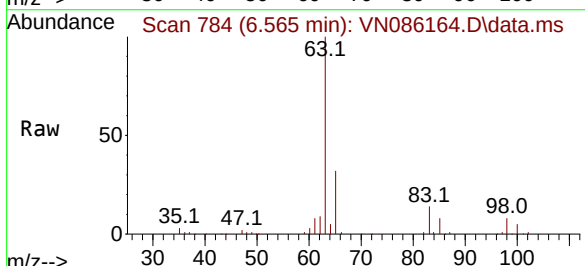
Tgt Ion: 63 Resp: 221680

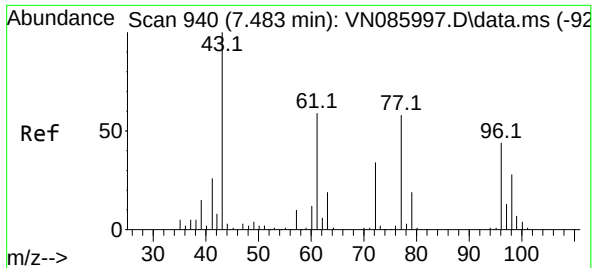
Ion Ratio Lower Upper

63 100

98 7.8 3.6 10.9

100 4.9 2.5 7.5





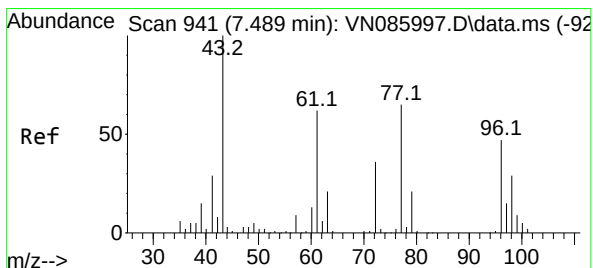
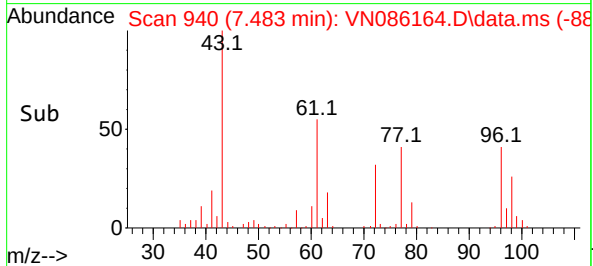
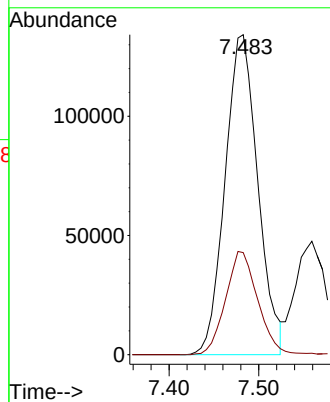
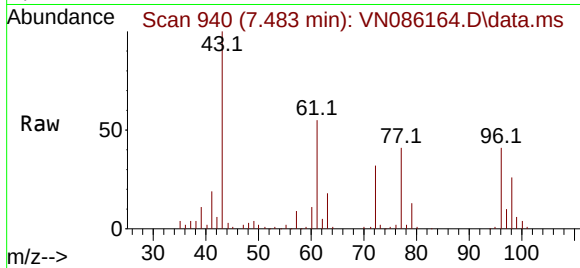
#25
2-Butanone
Concen: 266.962 ug/l
RT: 7.483 min Scan# 940
Delta R.T. -0.000 min
Lab File: VN086164.D
Acq: 28 Mar 2025 20:42

Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-001-01MSD

Tgt Ion: 43 Resp: 340080
Ion Ratio Lower Upper
43 100
72 31.9 27.4 41.0

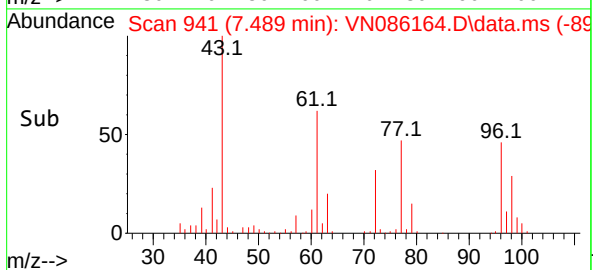
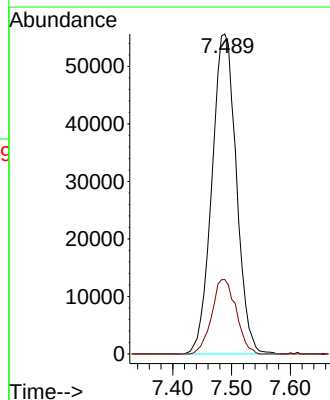
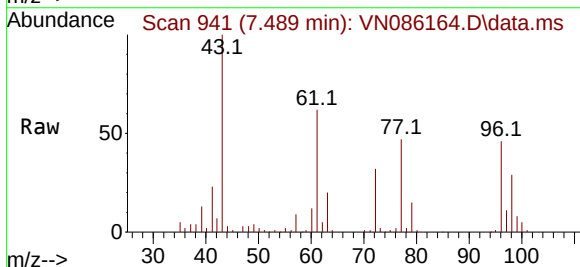
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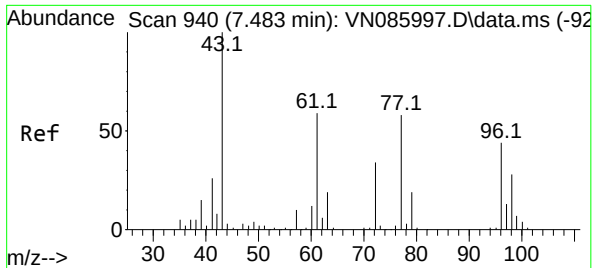
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#26
2,2-Dichloropropane
Concen: 39.486 ug/l
RT: 7.489 min Scan# 941
Delta R.T. -0.000 min
Lab File: VN086164.D
Acq: 28 Mar 2025 20:42

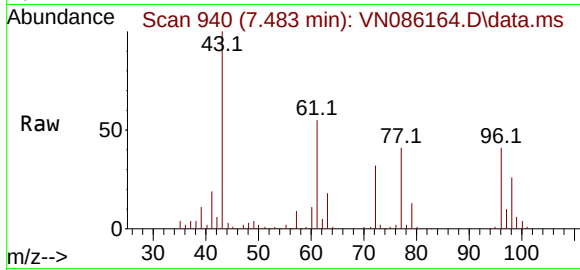
Tgt Ion: 77 Resp: 160675
Ion Ratio Lower Upper
77 100
97 23.3 11.2 33.5





#27
cis-1,2-Dichloroethene
Concen: 54.244 ug/l
RT: 7.483 min Scan# 940
Delta R.T. -0.000 min
Lab File: VN086164.D
Acq: 28 Mar 2025 20:42

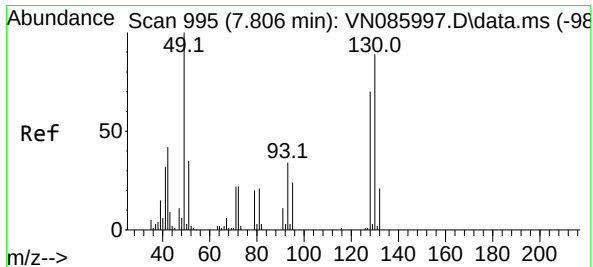
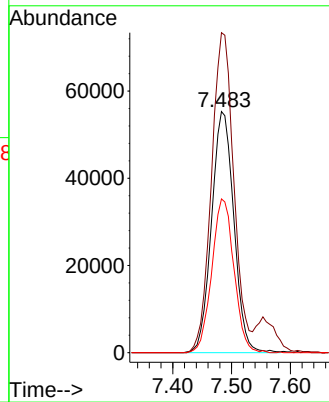
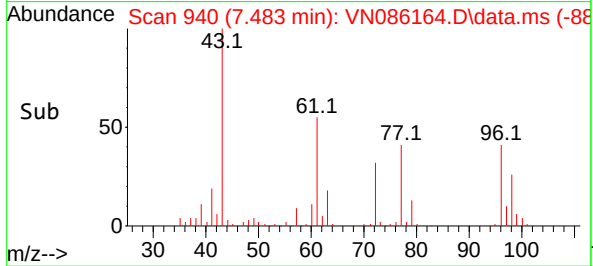
Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-001-01MSD



Tgt Ion: 96 Resp: 145644
Ion Ratio Lower Upper
96 100
61 133.6 0.0 272.8
98 63.4 0.0 124.8

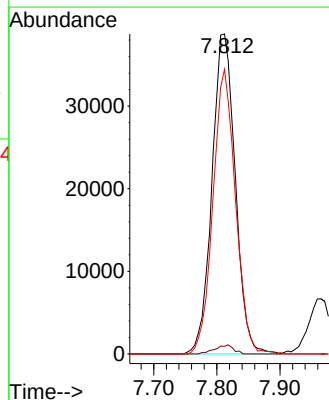
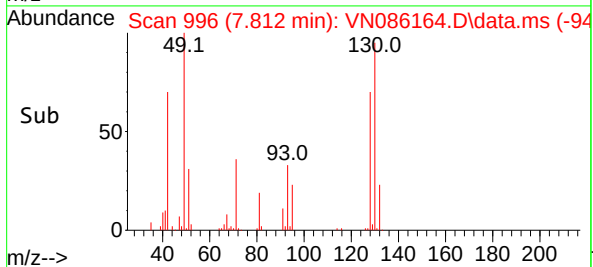
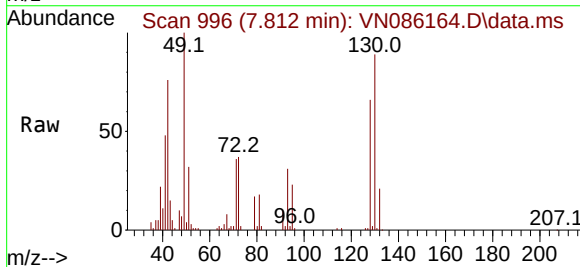
Manual Integrations
APPROVED

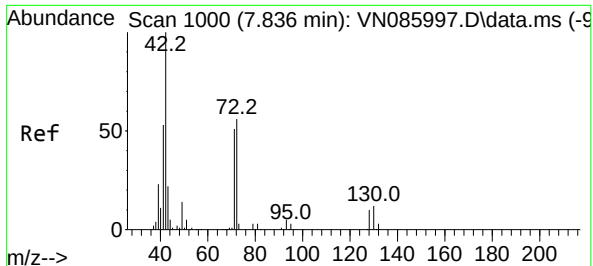
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#28
Bromochloromethane
Concen: 55.354 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.006 min
Lab File: VN086164.D
Acq: 28 Mar 2025 20:42

Tgt Ion: 49 Resp: 99124
Ion Ratio Lower Upper
49 100
129 2.3 0.0 4.2
130 86.1 74.2 111.4





#29

Tetrahydrofuran

Concen: 282.076 ug/l

RT: 7.836 min Scan# 1000

Delta R.T. -0.000 min

Lab File: VN086164.D

Acq: 28 Mar 2025 20:42

Instrument :

MSVOA_N

ClientSampleId :

P001-BBDGA-001-01MSD

Tgt Ion: 42 Resp: 221840

Ion Ratio Lower Upper

42 100

72 51.7 45.0 67.4

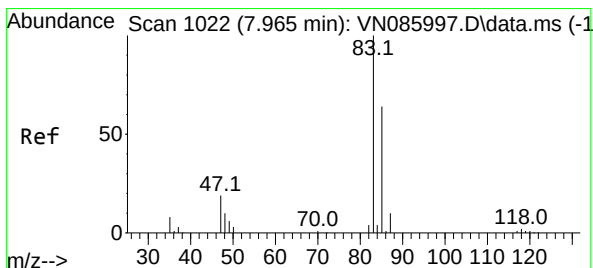
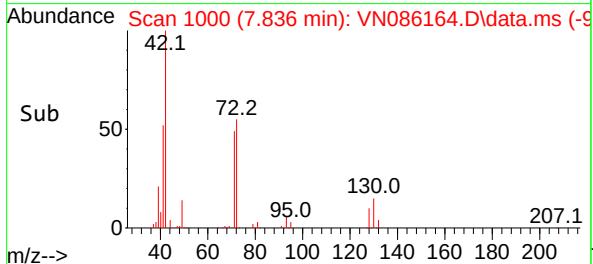
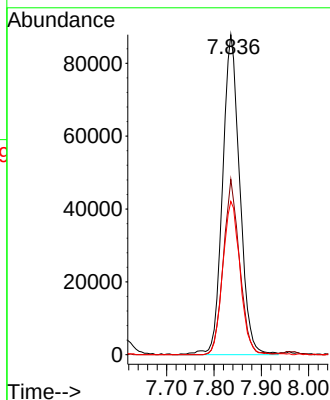
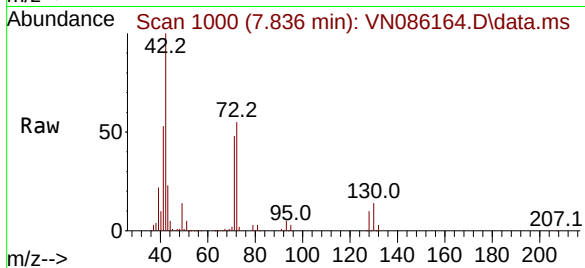
71 48.4 41.9 62.9

Manual Integrations

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Reviewed By :John Carlone 03/31/2025

Supervised By :Mahesh Dadoda 03/31/2025



#30

Chloroform

Concen: 51.621 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. -0.000 min

Lab File: VN086164.D

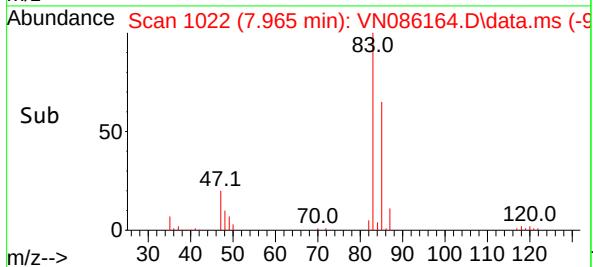
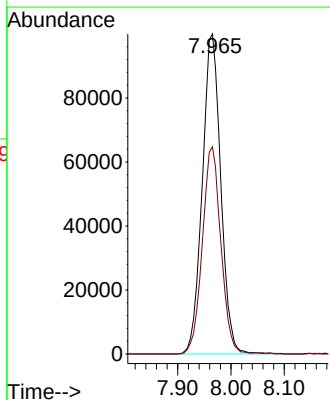
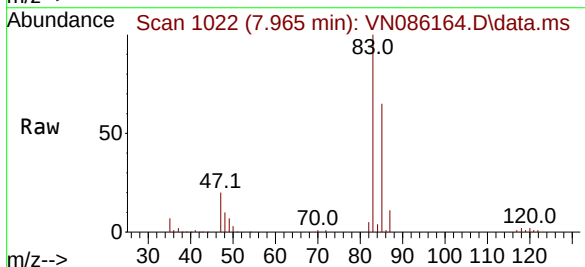
Acq: 28 Mar 2025 20:42

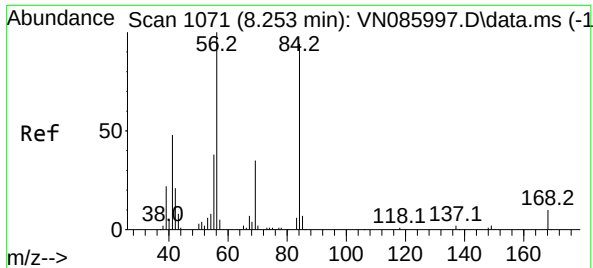
Tgt Ion: 83 Resp: 241165

Ion Ratio Lower Upper

83 100

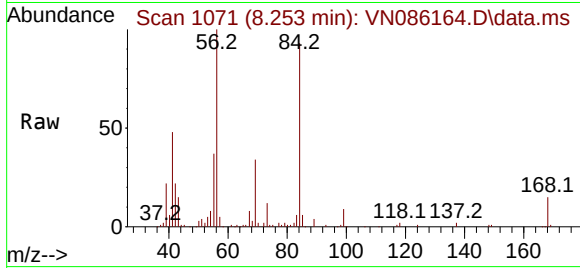
85 64.8 51.5 77.3





#31
Cyclohexane
Concen: 51.880 ug/l
RT: 8.253 min Scan# 1071
Delta R.T. -0.000 min
Lab File: VN086164.D
Acq: 28 Mar 2025 20:42

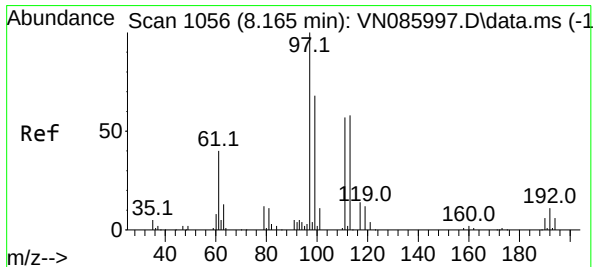
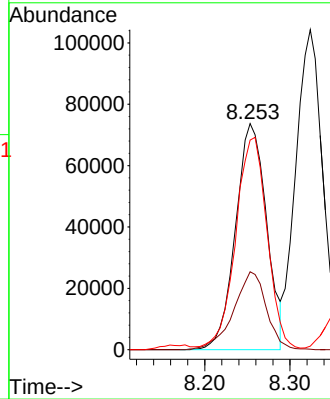
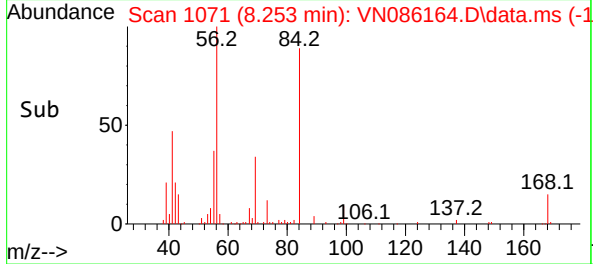
Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-001-01MSD



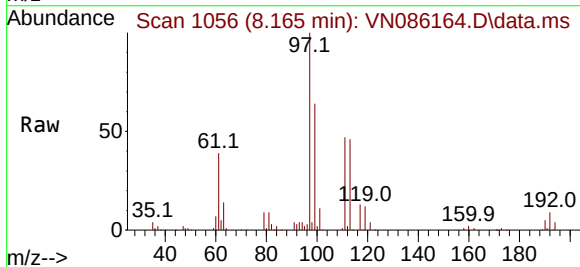
Tgt Ion: 56 Resp: 18680
Ion Ratio Lower Upper
56 100
69 34.5 28.0 42.0
84 90.9 75.0 112.6

Manual Integrations
APPROVED

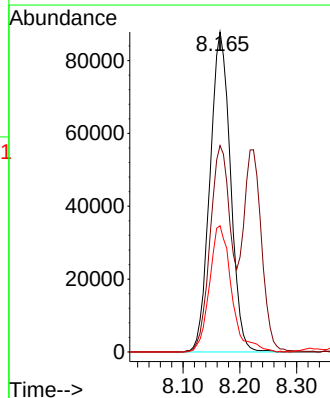
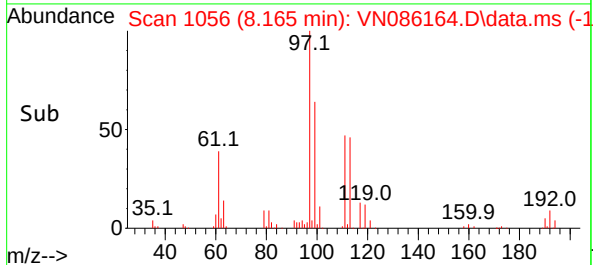
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025

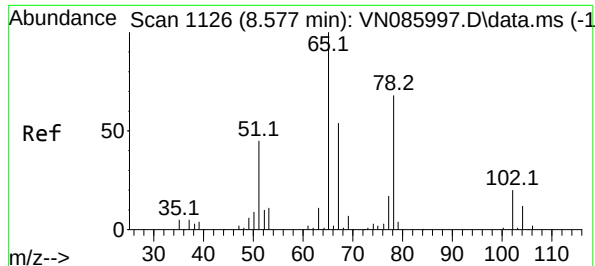


#32
1,1,1-Trichloroethane
Concen: 49.686 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN086164.D
Acq: 28 Mar 2025 20:42



Tgt Ion: 97 Resp: 219727
Ion Ratio Lower Upper
97 100
99 65.4 52.8 79.2
61 42.5 33.6 50.4





#33

1,2-Dichloroethane-d4

Concen: 48.436 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN086164.D

Acq: 28 Mar 2025 20:42

Instrument :

MSVOA_N

ClientSampleId :

P001-BBDGA-001-01MSD

Tgt Ion: 65 Resp: 13996

Ion Ratio Lower Upper

65 100

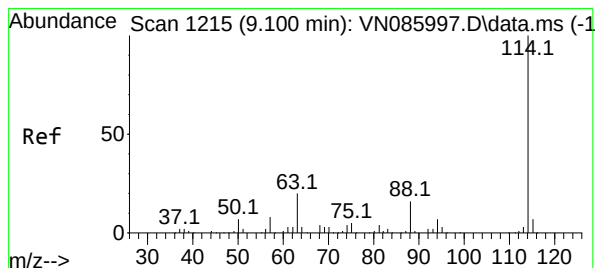
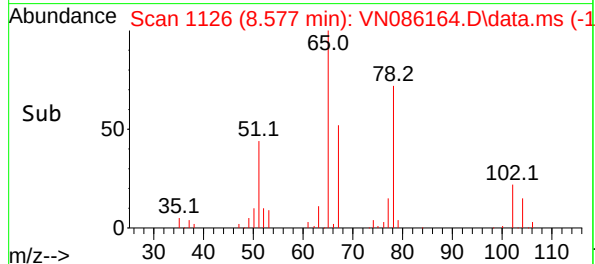
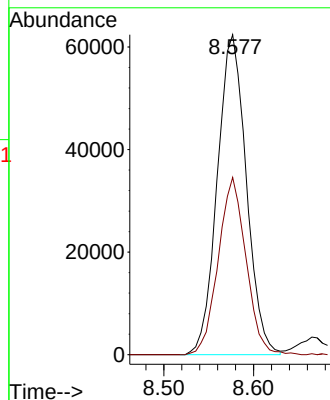
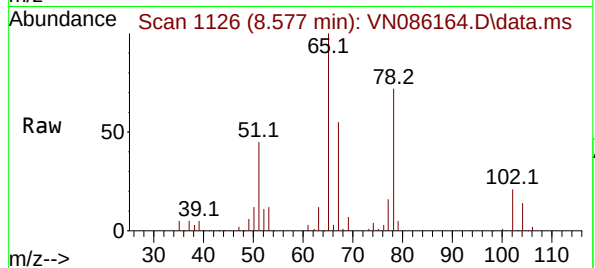
67 53.1 0.0 102.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/31/2025

Supervised By :Mahesh Dadoda 03/31/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN086164.D

Acq: 28 Mar 2025 20:42

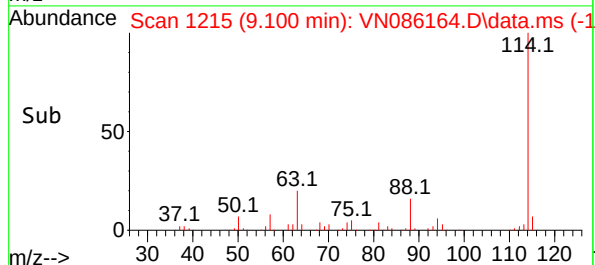
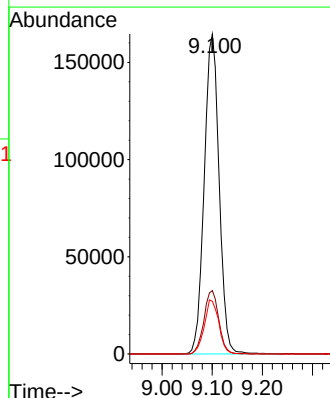
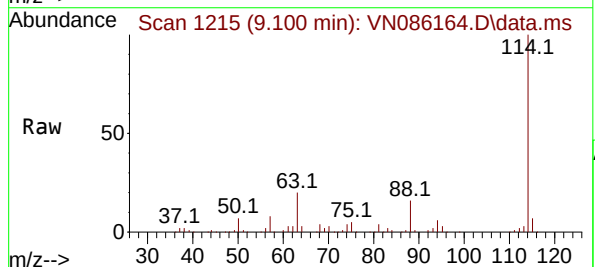
Tgt Ion:114 Resp: 339619

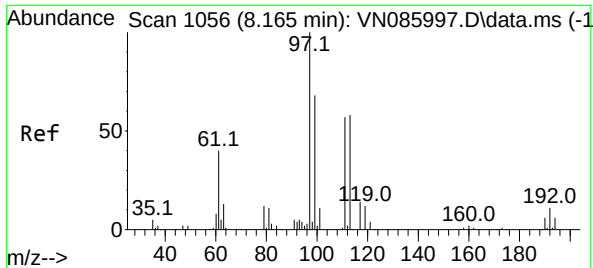
Ion Ratio Lower Upper

114 100

63 19.8 0.0 39.6

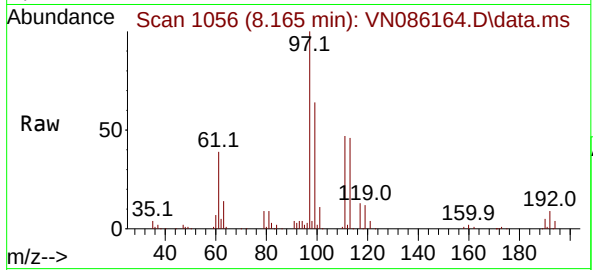
88 16.5 0.0 32.6





#35
Dibromofluoromethane
Concen: 41.416 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN086164.D
Acq: 28 Mar 2025 20:42

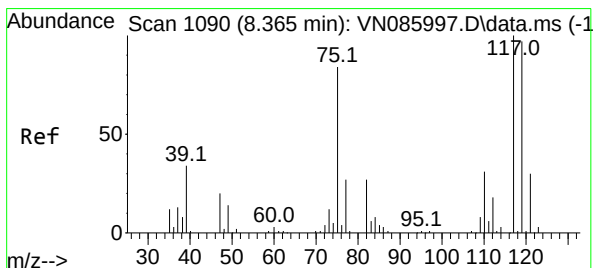
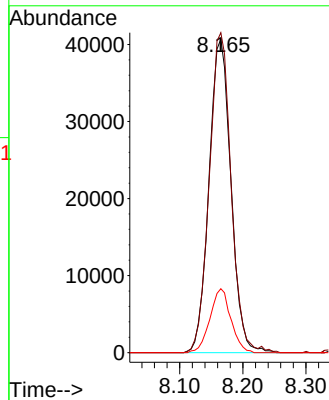
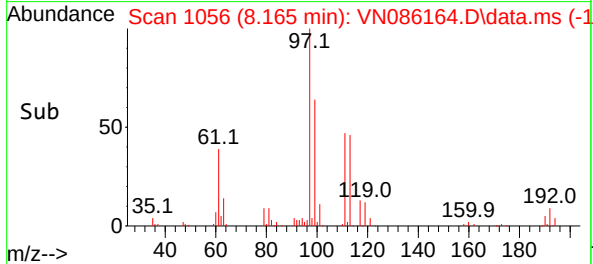
Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-001-01MSD



Tgt Ion: 113 Resp: 9817
Ion Ratio Lower Upper
113 100
111 101.5 81.8 122.8
192 19.4 15.9 23.9

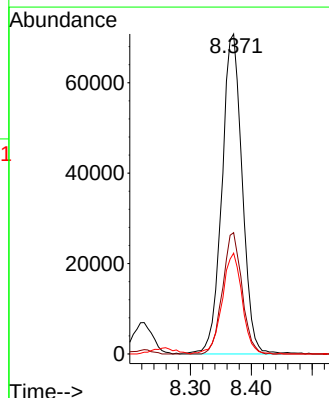
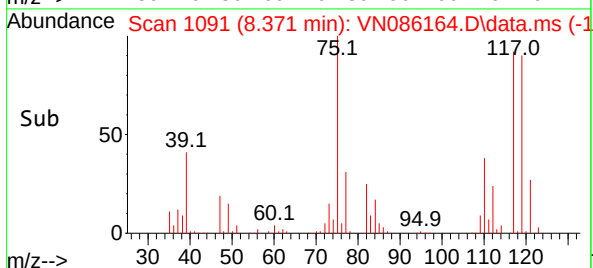
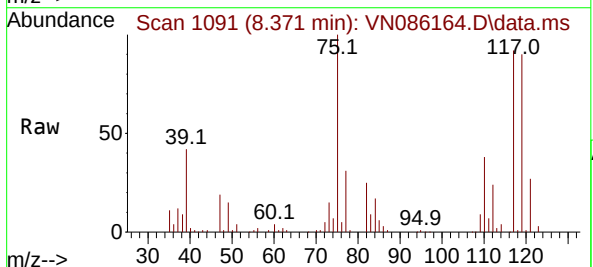
Manual Integrations
APPROVED

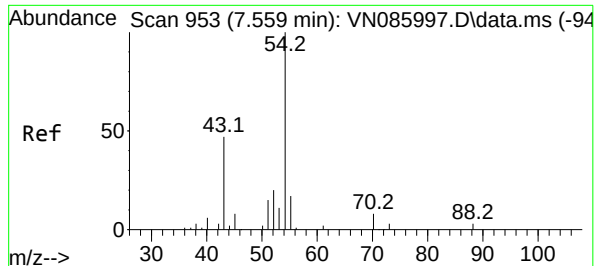
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#36
1,1-Dichloropropene
Concen: 52.417 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. 0.006 min
Lab File: VN086164.D
Acq: 28 Mar 2025 20:42

Tgt Ion: 75 Resp: 163612
Ion Ratio Lower Upper
75 100
110 36.3 17.8 53.3
77 31.2 25.0 37.4





#37

Ethyl Acetate

Concen: 45.859 ug/l

RT: 7.559 min Scan# 91

Delta R.T. -0.000 min

Lab File: VN086164.D

Acq: 28 Mar 2025 20:42

Instrument :

MSVOA_N

ClientSampleId :

P001-BBDGA-001-01MSD

Tgt Ion: 43 Resp: 120762

Ion Ratio Lower Upper

43

61

70

100

15.4

12.7

13.0

11.0

19.4

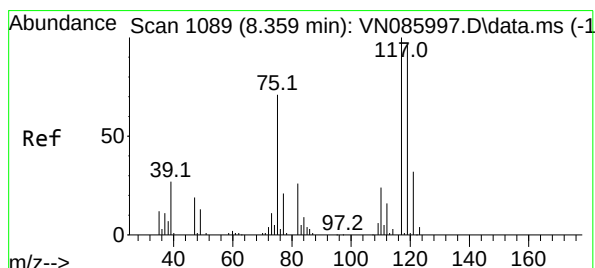
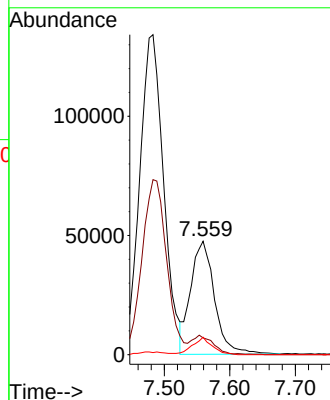
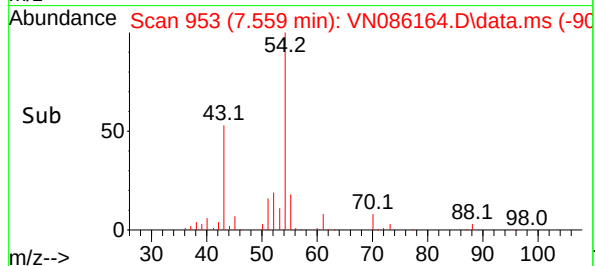
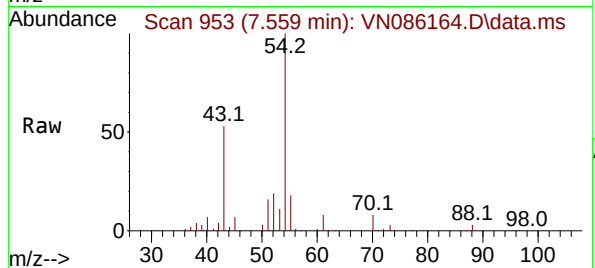
16.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/31/2025

Supervised By :Mahesh Dadoda 03/31/2025



#38

Carbon Tetrachloride

Concen: 49.318 ug/l

RT: 8.359 min Scan# 1089

Delta R.T. -0.000 min

Lab File: VN086164.D

Acq: 28 Mar 2025 20:42

Tgt Ion:117 Resp: 202403

Ion Ratio Lower Upper

117

119

121

100

96.6

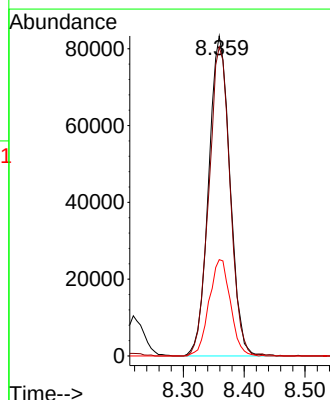
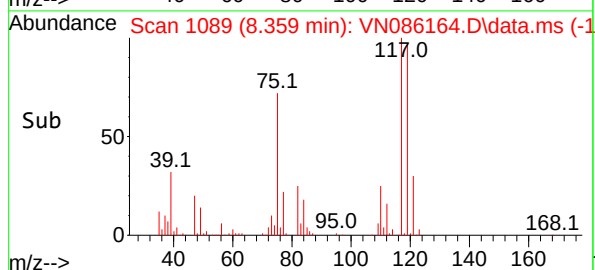
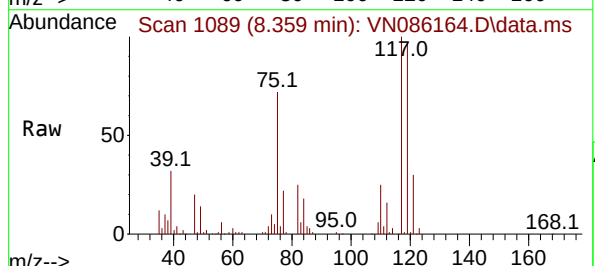
30.1

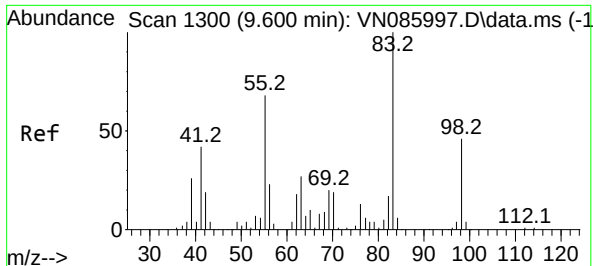
77.0

25.6

115.4

38.4





#39

Methylcyclohexane

Concen: 53.817 ug/l

RT: 9.600 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN086164.D

Acq: 28 Mar 2025 20:42

Instrument :

MSVOA_N

ClientSampleId :

P001-BBDGA-001-01MSD

Tgt Ion: 83 Resp: 16666

Ion Ratio Lower Upper

83 100

55 72.2 54.2 81.2

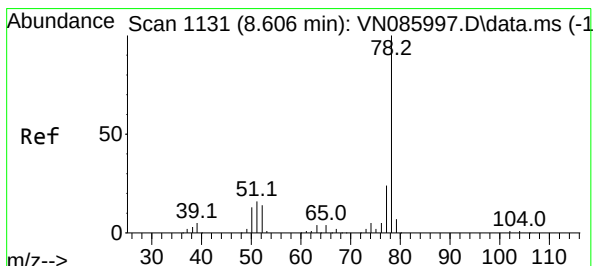
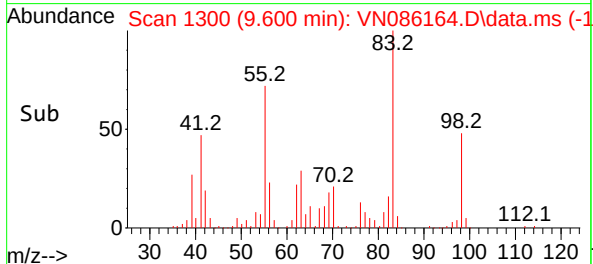
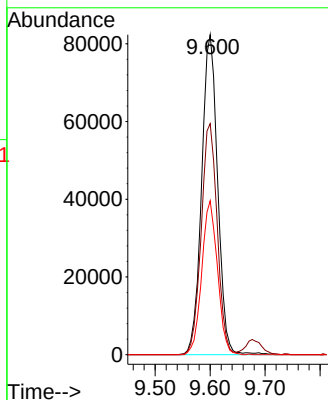
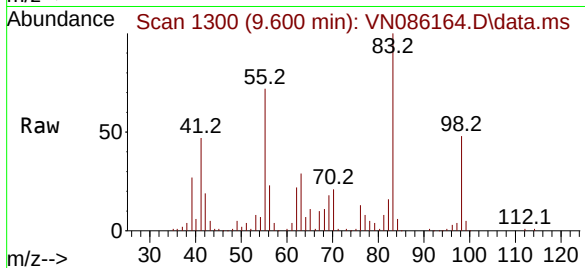
98 48.1 37.1 55.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/31/2025

Supervised By :Mahesh Dadoda 03/31/2025



#40

Benzene

Concen: 53.800 ug/l

RT: 8.606 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VN086164.D

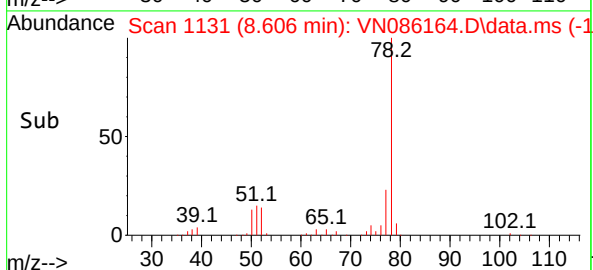
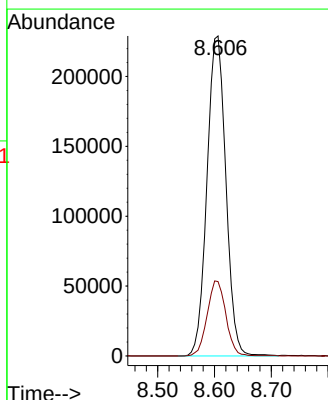
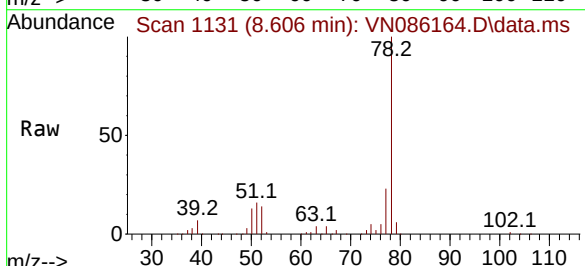
Acq: 28 Mar 2025 20:42

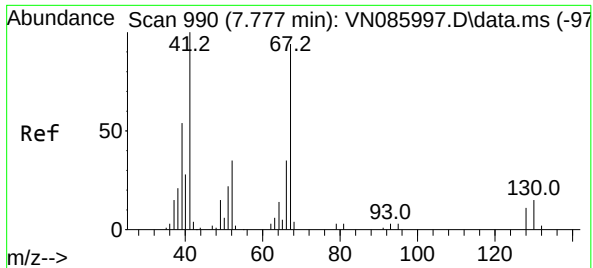
Tgt Ion: 78 Resp: 527165

Ion Ratio Lower Upper

78 100

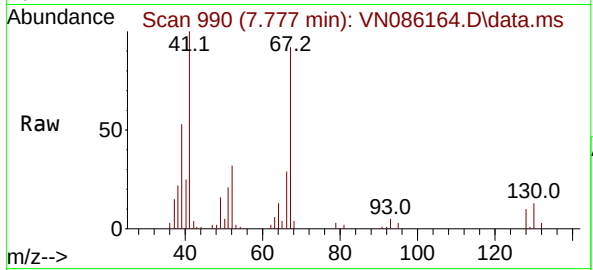
77 23.3 18.9 28.3





#41
Methacrylonitrile
Concen: 60.406 ug/l
RT: 7.777 min Scan# 990
Delta R.T. -0.000 min
Lab File: VN086164.D
Acq: 28 Mar 2025 20:42

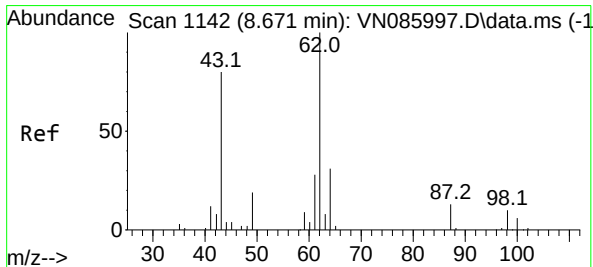
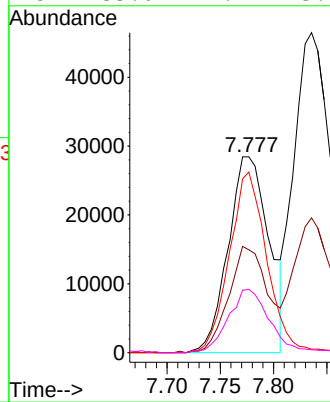
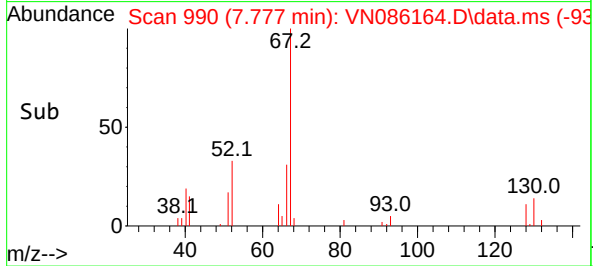
Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-001-01MSD



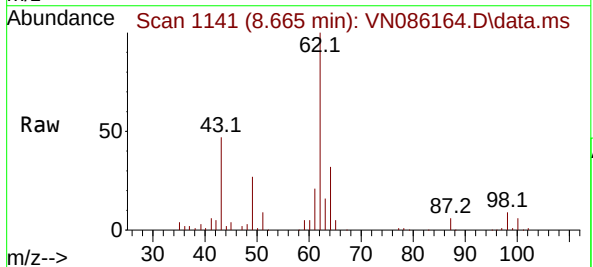
Tgt Ion: 41 Resp: 75950
Ion Ratio Lower Upper
41 100
39 52.3 46.2 69.2
67 85.3 75.9 113.9
52 33.0 29.2 43.8

Manual Integrations
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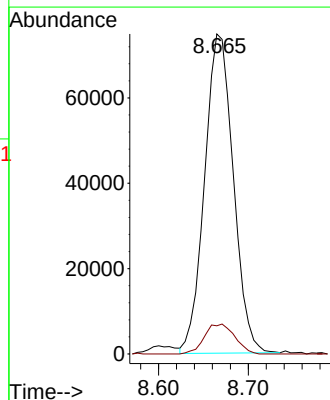
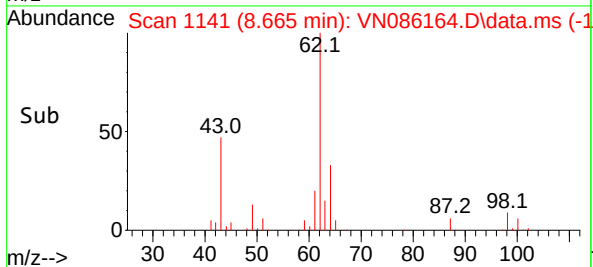
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025

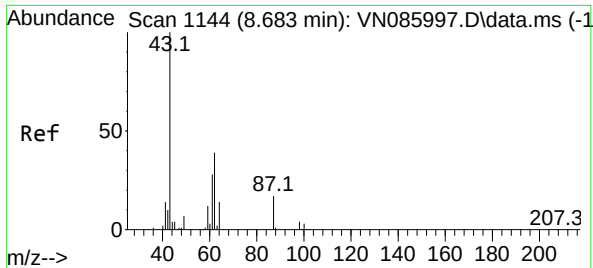


#42
1,2-Dichloroethane
Concen: 48.695 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. -0.006 min
Lab File: VN086164.D
Acq: 28 Mar 2025 20:42



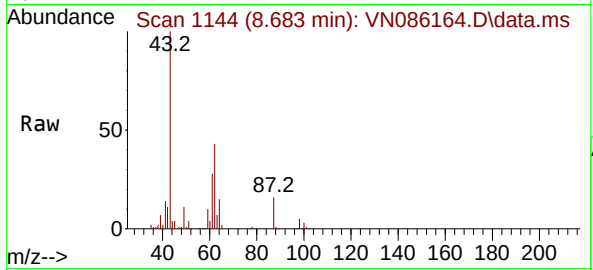
Tgt Ion: 62 Resp: 166260
Ion Ratio Lower Upper
62 100
98 9.9 0.0 18.6





#43
Isopropyl Acetate
Concen: 39.488 ug/l
RT: 8.683 min Scan# 1144
Delta R.T. -0.000 min
Lab File: VN086164.D
Acq: 28 Mar 2025 20:42

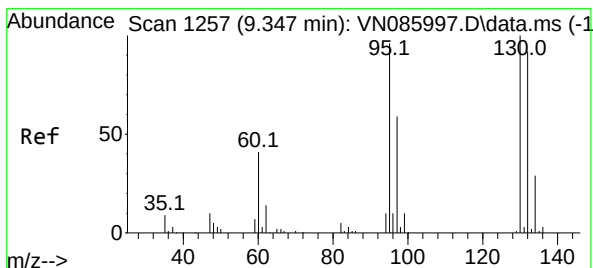
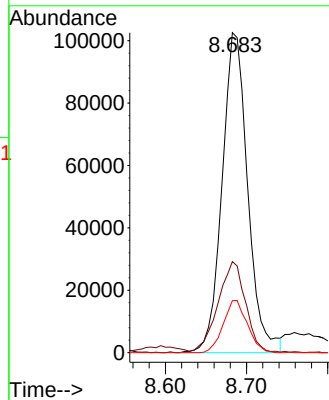
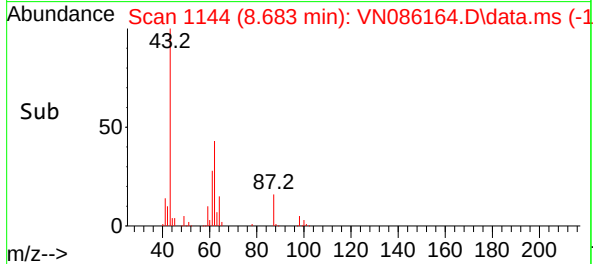
Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-001-01MSD



Tgt Ion: 43 Resp: 225330
Ion Ratio Lower Upper
43 100
61 30.7 25.0 37.6
87 15.3 13.0 19.4

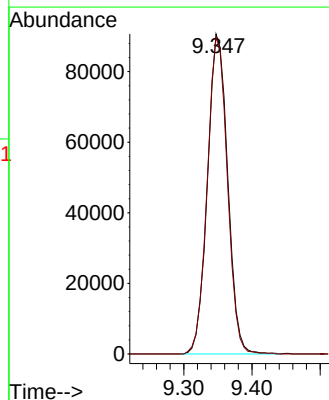
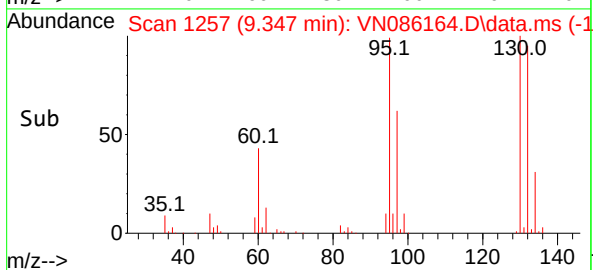
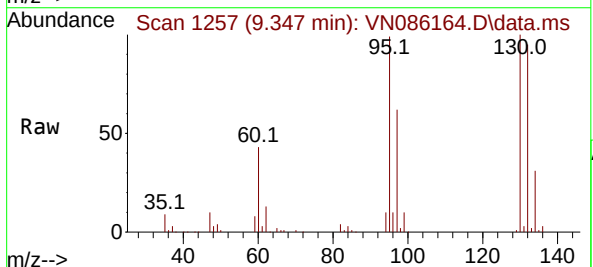
Manual Integrations
APPROVED

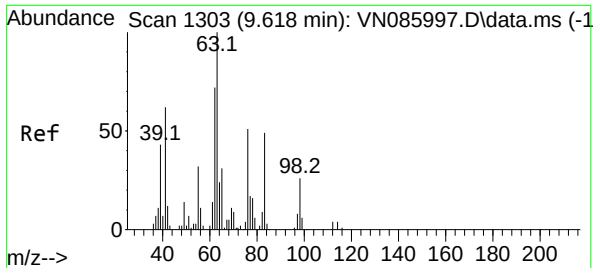
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#44
Trichloroethene
Concen: 73.686 ug/l
RT: 9.347 min Scan# 1257
Delta R.T. -0.000 min
Lab File: VN086164.D
Acq: 28 Mar 2025 20:42

Tgt Ion:130 Resp: 187133
Ion Ratio Lower Upper
130 100
95 98.9 0.0 191.6





#45

1,2-Dichloropropane

Concen: 56.494 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. -0.000 min

Lab File: VN086164.D

Acq: 28 Mar 2025 20:42

Instrument :

MSVOA_N

ClientSampleId :

P001-BBDGA-001-01MSD

Tgt Ion: 63 Resp: 12590

Ion Ratio Lower Upper

63 100

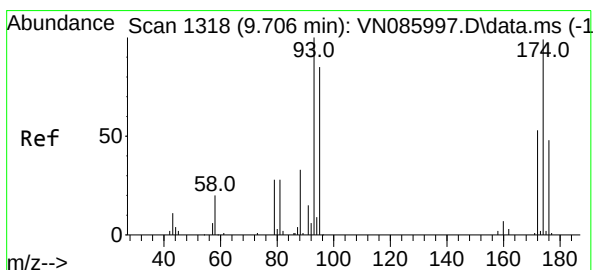
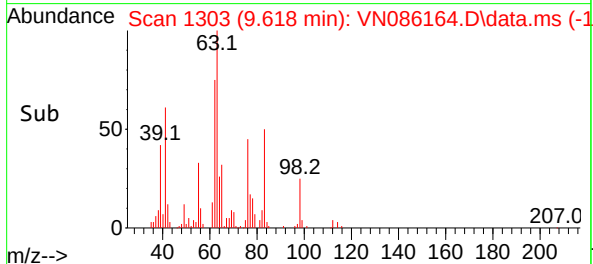
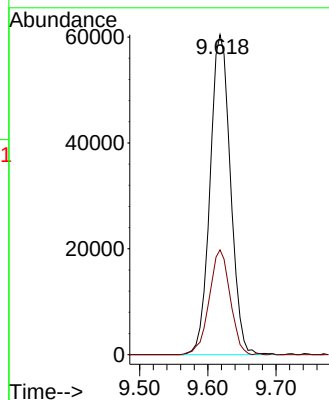
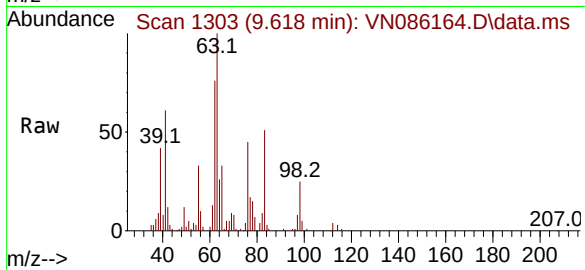
65 32.8 24.7 37.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/31/2025

Supervised By :Mahesh Dadoda 03/31/2025



#46

Dibromomethane

Concen: 52.122 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. -0.000 min

Lab File: VN086164.D

Acq: 28 Mar 2025 20:42

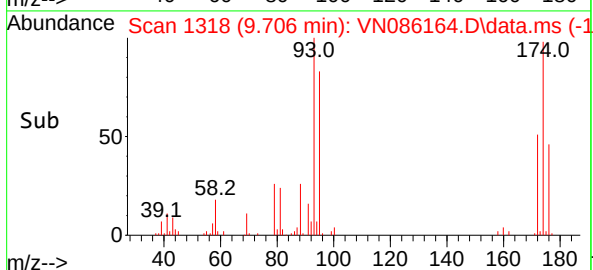
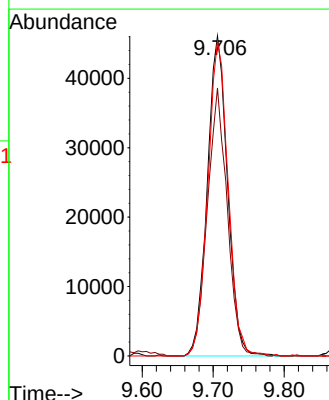
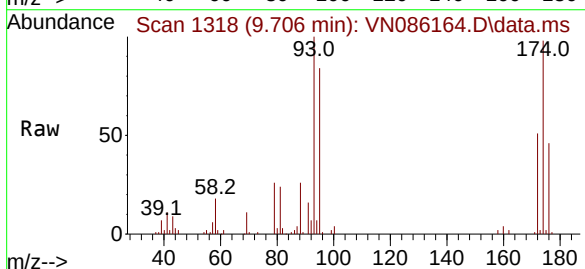
Tgt Ion: 93 Resp: 91354

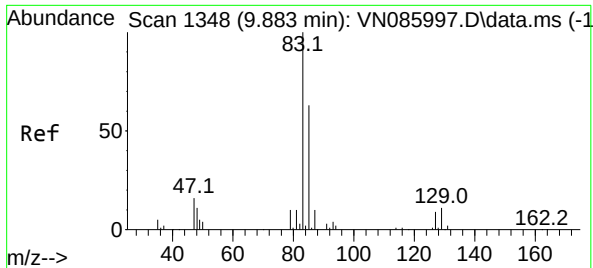
Ion Ratio Lower Upper

93 100

95 82.2 66.2 99.2

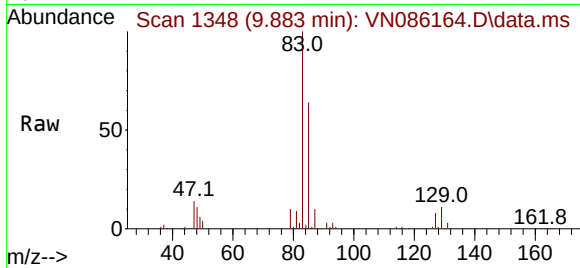
174 98.9 80.1 120.1





#47
Bromodichloromethane
Concen: 52.160 ug/l
RT: 9.883 min Scan# 1348
Delta R.T. -0.000 min
Lab File: VN086164.D
Acq: 28 Mar 2025 20:42

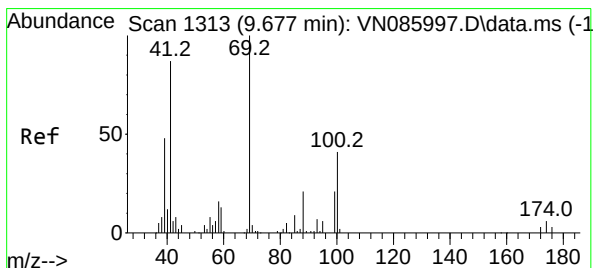
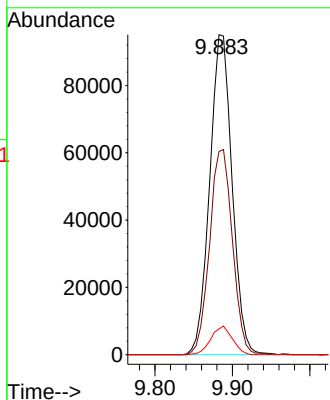
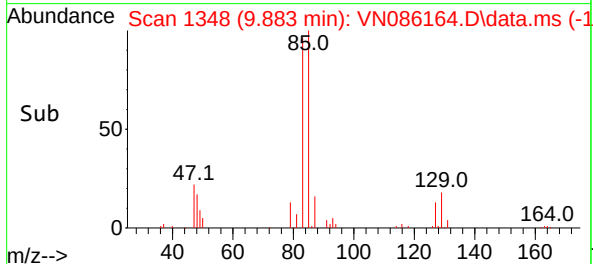
Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-001-01MSD



Tgt Ion: 83 Resp: 191064
Ion Ratio Lower Upper
83 100
85 63.5 50.2 75.2
127 8.1 7.1 10.7

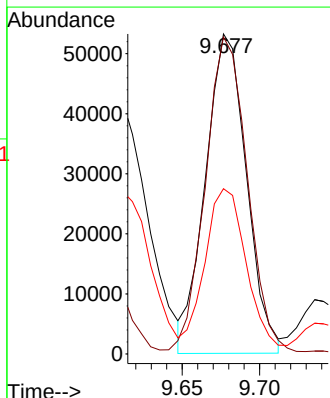
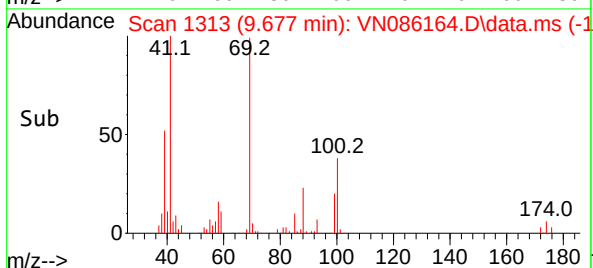
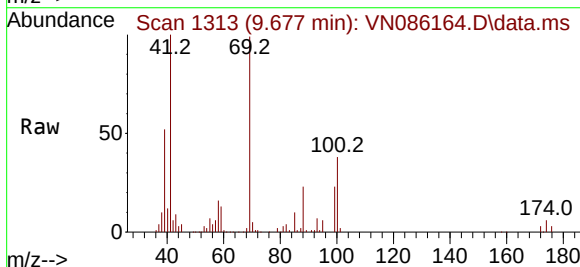
Manual Integrations
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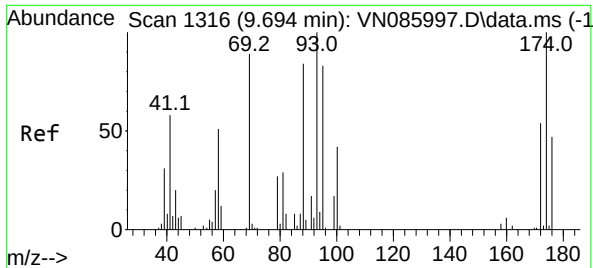
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#48
Methyl methacrylate
Concen: 51.987 ug/l
RT: 9.677 min Scan# 1313
Delta R.T. -0.000 min
Lab File: VN086164.D
Acq: 28 Mar 2025 20:42

Tgt Ion: 41 Resp: 97891
Ion Ratio Lower Upper
41 100
69 100.6 83.1 124.7
39 53.7 45.6 68.4





#49

1,4-Dioxane

Concen: 1045.620 ug/l

RT: 9.694 min Scan# 1316

Delta R.T. -0.000 min

Lab File: VN086164.D

Acq: 28 Mar 2025 20:42

Instrument :

MSVOA_N

ClientSampleId :

P001-BBDGA-001-01MSD

Tgt Ion: 88 Resp: 46544

Ion Ratio Lower Upper

88 100

43 21.1 21.7 32.5

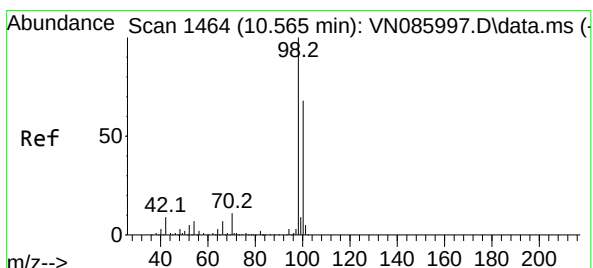
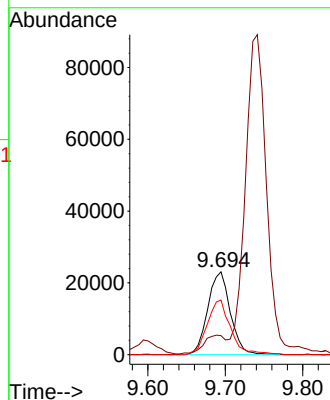
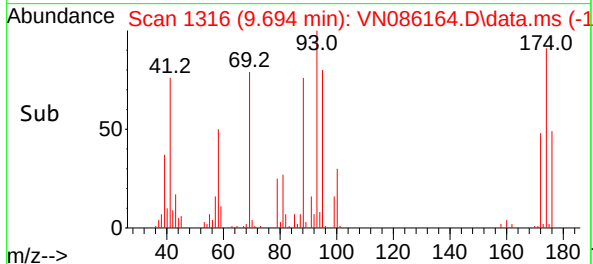
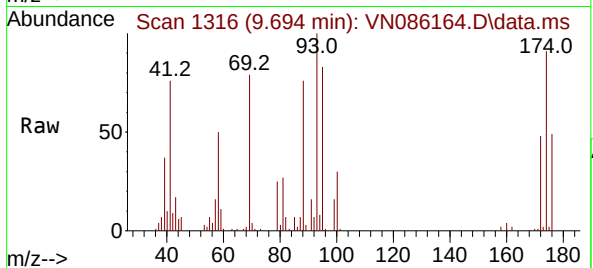
58 69.0 50.4 75.6

Manual Integrations

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Reviewed By :John Carlone 03/31/2025

Supervised By :Mahesh Dadoda 03/31/2025



#50

Toluene-d8

Concen: 51.775 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN086164.D

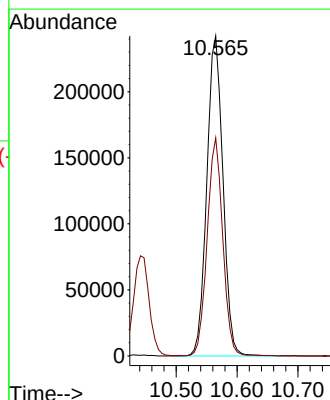
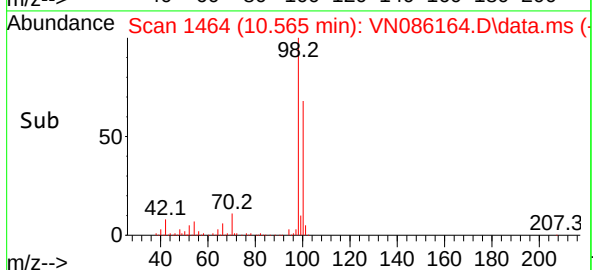
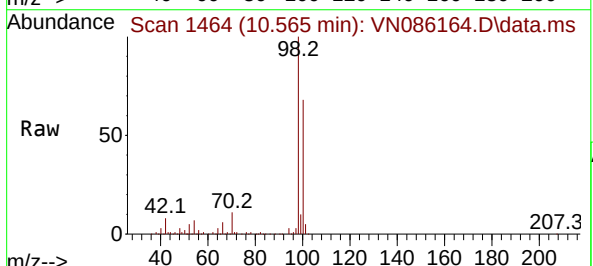
Acq: 28 Mar 2025 20:42

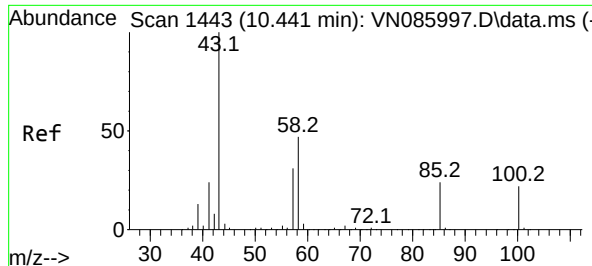
Tgt Ion: 98 Resp: 445431

Ion Ratio Lower Upper

98 100

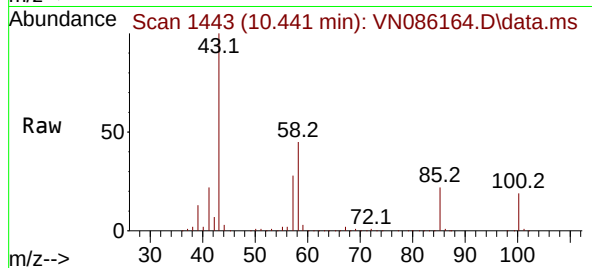
100 65.9 53.1 79.7





#51
4-Methyl-2-Pentanone
Concen: 283.468 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN086164.D
Acq: 28 Mar 2025 20:42

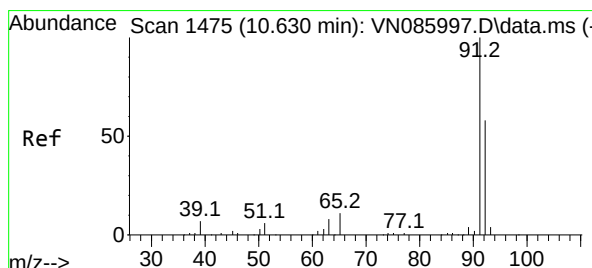
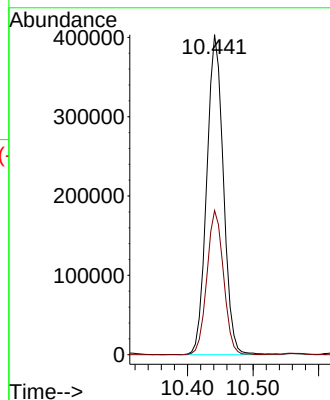
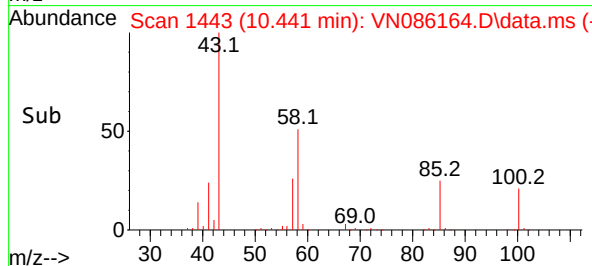
Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-001-01MSD



Tgt Ion: 43 Resp: 71337
Ion Ratio Lower Upper
43 100
58 44.9 37.4 56.0

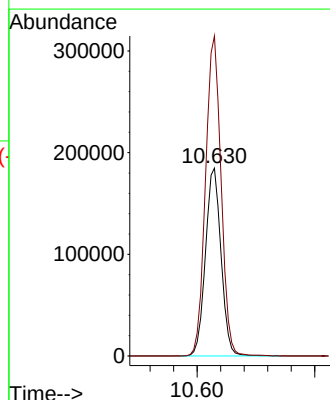
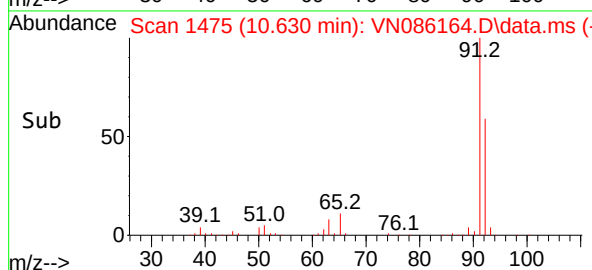
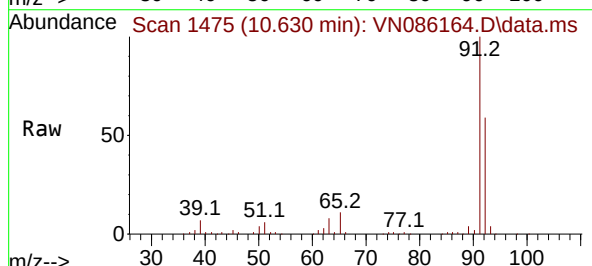
Manual Integrations
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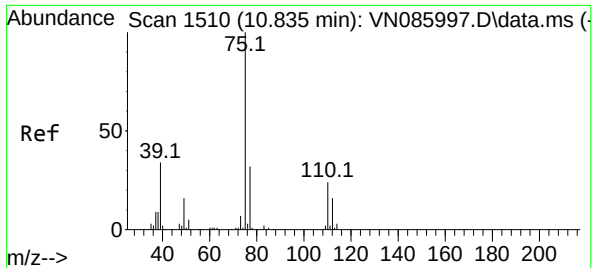
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#52
Toluene
Concen: 56.343 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN086164.D
Acq: 28 Mar 2025 20:42

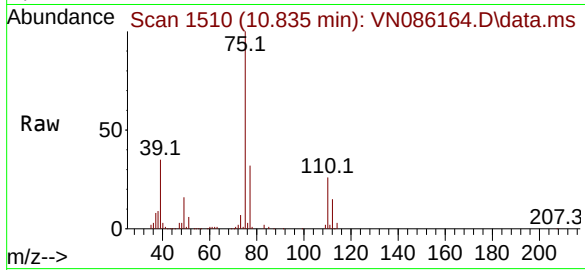
Tgt Ion: 92 Resp: 338846
Ion Ratio Lower Upper
92 100
91 170.0 136.2 204.4





#53
t-1,3-Dichloropropene
Concen: 52.481 ug/l
RT: 10.835 min Scan# 1510
Delta R.T. -0.000 min
Lab File: VN086164.D
Acq: 28 Mar 2025 20:42

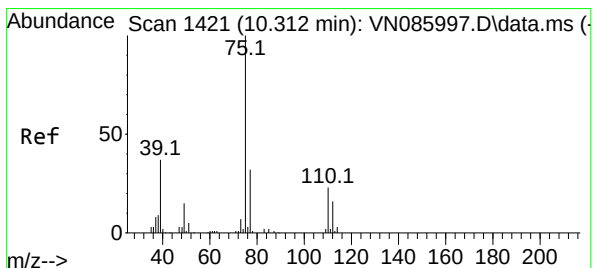
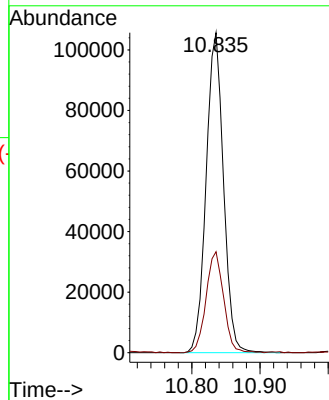
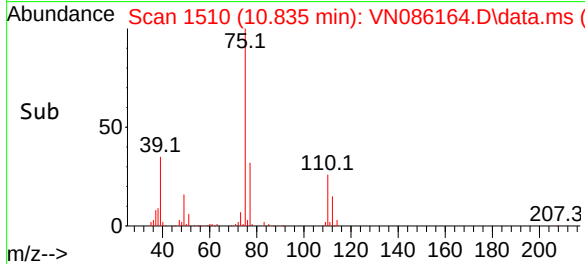
Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-001-01MSD



Tgt Ion: 75 Resp: 186698
Ion Ratio Lower Upper
75 100
77 31.5 25.3 37.9

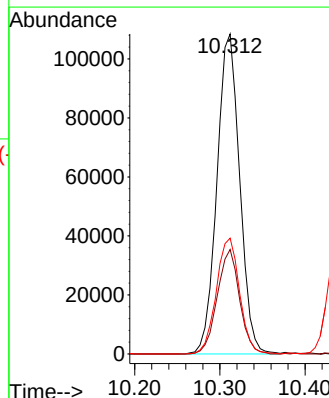
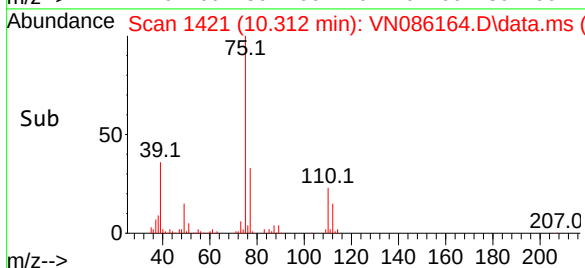
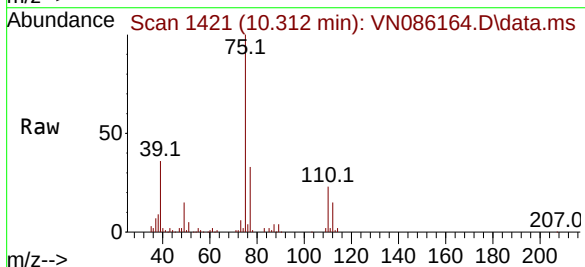
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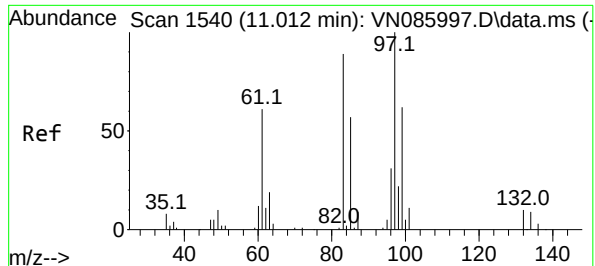
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#54
cis-1,3-Dichloropropene
Concen: 53.583 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. -0.000 min
Lab File: VN086164.D
Acq: 28 Mar 2025 20:42

Tgt Ion: 75 Resp: 201114
Ion Ratio Lower Upper
75 100
77 32.7 25.3 37.9
39 36.2 29.6 44.4





#55

1,1,2-Trichloroethane

Concen: 54.569 ug/l

RT: 11.012 min Scan# 1540

Delta R.T. -0.000 min

Lab File: VN086164.D

Acq: 28 Mar 2025 20:42

Instrument :

MSVOA_N

ClientSampleId :

P001-BBDGA-001-01MSD

Tgt Ion: 97 Resp: 125250

Ion Ratio Lower Upper

97 100

83 90.9 71.2 106.8

85 58.1 45.4 68.0

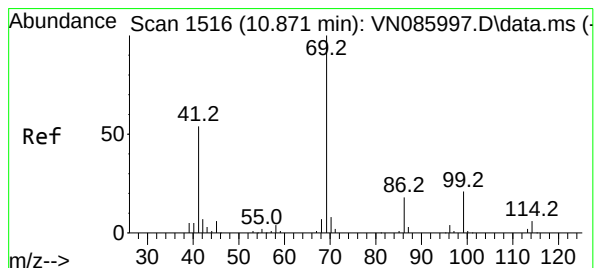
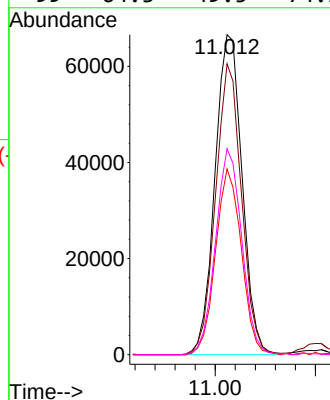
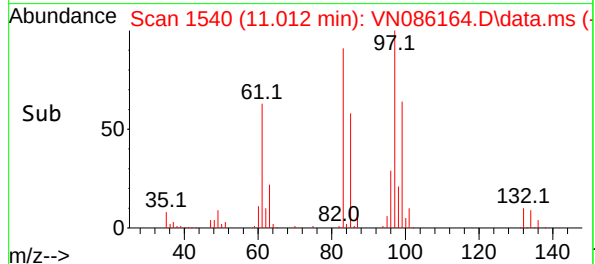
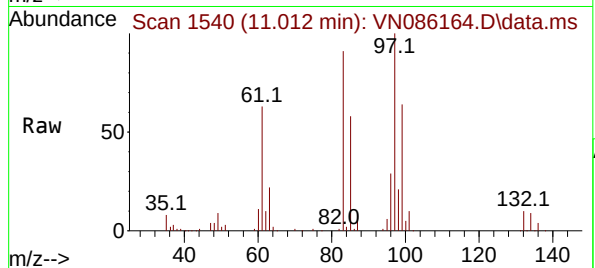
99 64.3 49.5 74.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/31/2025

Supervised By :Mahesh Dadoda 03/31/2025



#56

Ethyl methacrylate

Concen: 50.201 ug/l

RT: 10.871 min Scan# 1516

Delta R.T. -0.000 min

Lab File: VN086164.D

Acq: 28 Mar 2025 20:42

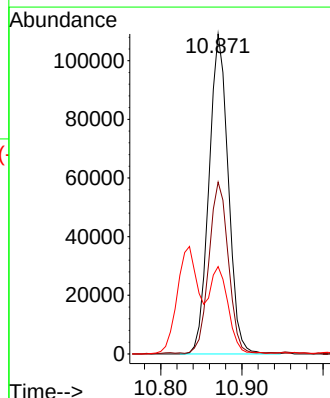
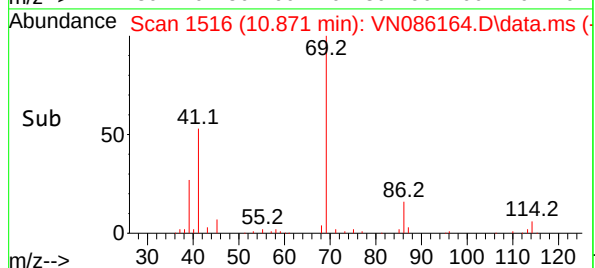
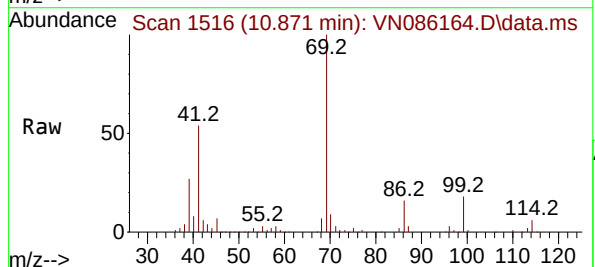
Tgt Ion: 69 Resp: 179897

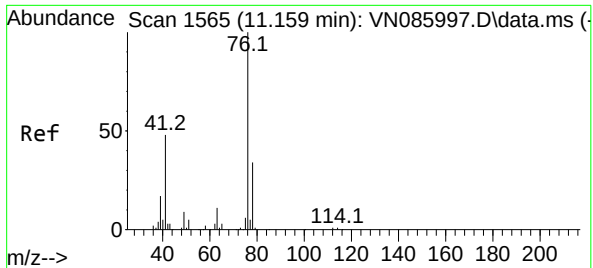
Ion Ratio Lower Upper

69 100

41 53.7 41.6 62.4

39 26.1 21.8 32.8





#57

1,3-Dichloropropane

Concen: 54.836 ug/l

RT: 11.159 min Scan# 1565

Delta R.T. -0.000 min

Lab File: VN086164.D

Acq: 28 Mar 2025 20:42

Instrument :

MSVOA_N

ClientSampleId :

P001-BBDGA-001-01MSD

Tgt Ion: 76 Resp: 21378

Ion Ratio Lower Upper

76 100

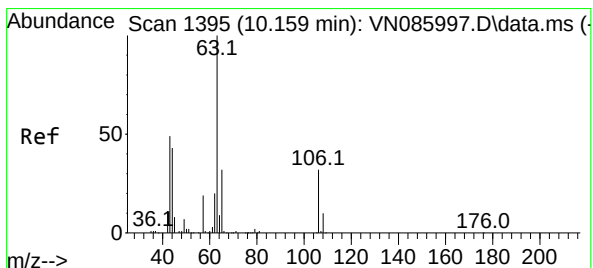
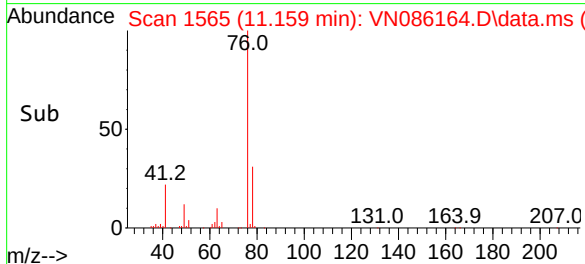
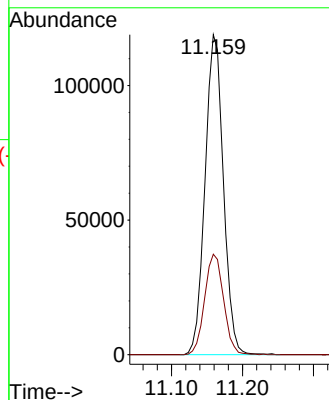
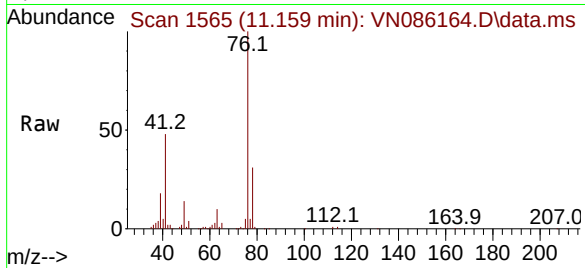
78 32.4 25.8 38.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/31/2025

Supervised By :Mahesh Dadoda 03/31/2025



#58

2-Chloroethyl Vinyl ether

Concen: 293.456 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. -0.000 min

Lab File: VN086164.D

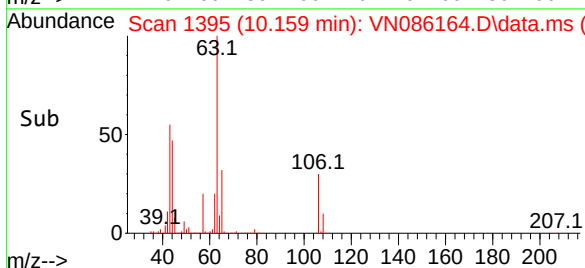
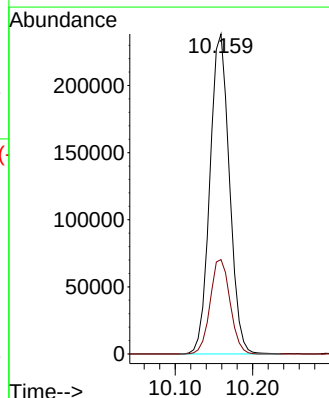
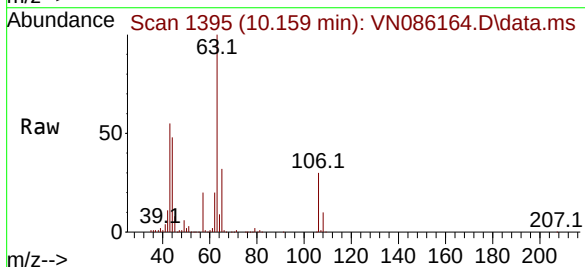
Acq: 28 Mar 2025 20:42

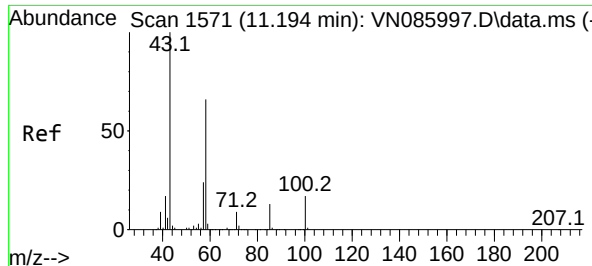
Tgt Ion: 63 Resp: 416791

Ion Ratio Lower Upper

63 100

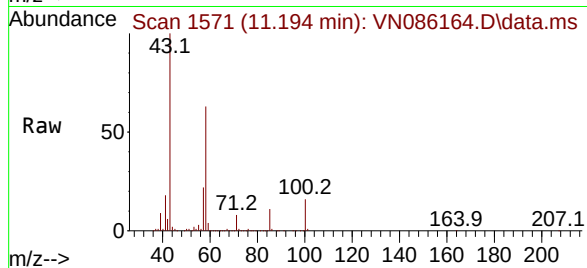
106 30.1 25.0 37.6





#59
2-Hexanone
Concen: 292.519 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. -0.000 min
Lab File: VN086164.D
Acq: 28 Mar 2025 20:42

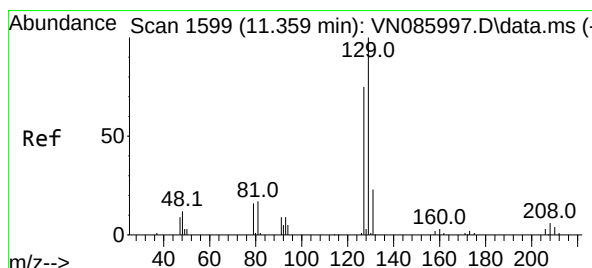
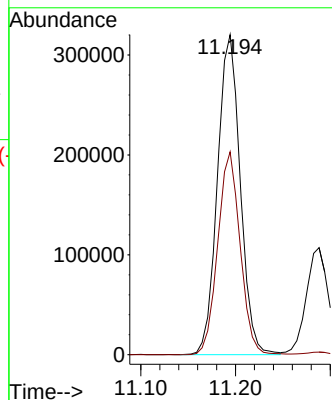
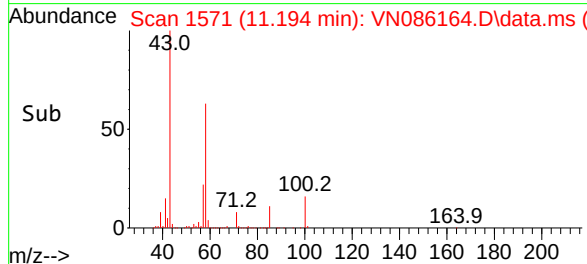
Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-001-01MSD



Tgt Ion: 43 Resp: 536279
Ion Ratio Lower Upper
43 100
58 62.1 32.4 97.2

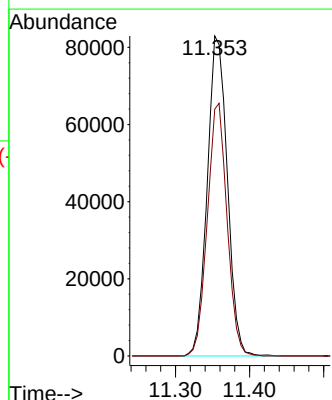
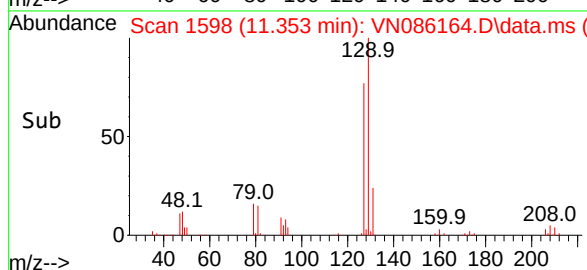
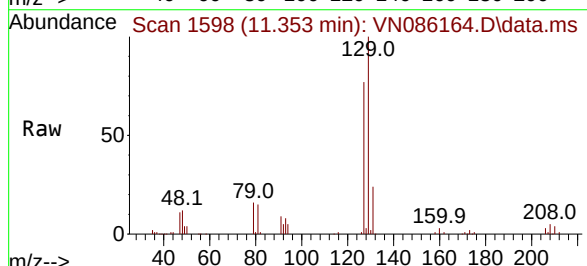
Manual Integrations
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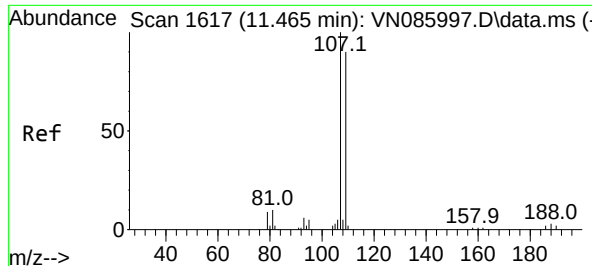
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#60
Dibromochloromethane
Concen: 52.636 ug/l
RT: 11.353 min Scan# 1598
Delta R.T. -0.006 min
Lab File: VN086164.D
Acq: 28 Mar 2025 20:42

Tgt Ion:129 Resp: 155904
Ion Ratio Lower Upper
129 100
127 77.5 37.8 113.4





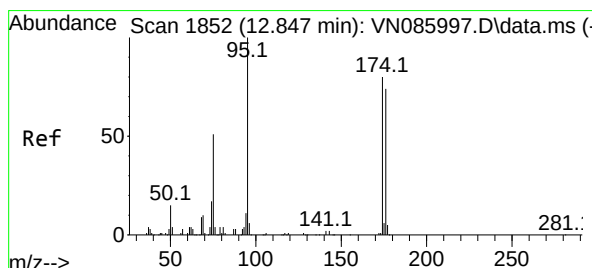
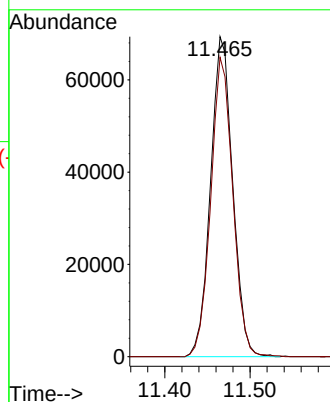
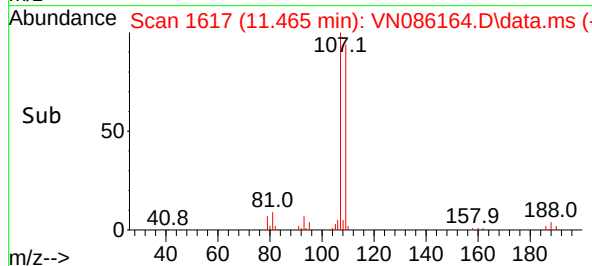
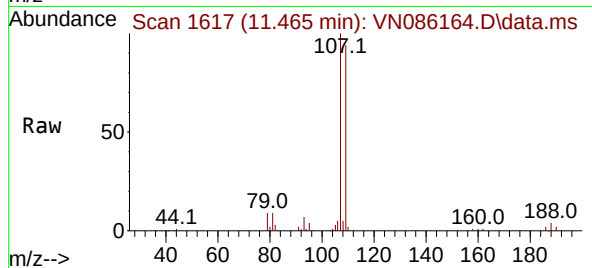
#61
1,2-Dibromoethane
Concen: 53.116 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VN086164.D
Acq: 28 Mar 2025 20:42

Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-001-01MSD

Tgt Ion:107 Resp: 125160
Ion Ratio Lower Upper
107 100
109 93.0 73.3 109.9

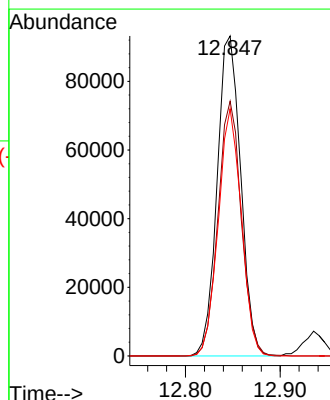
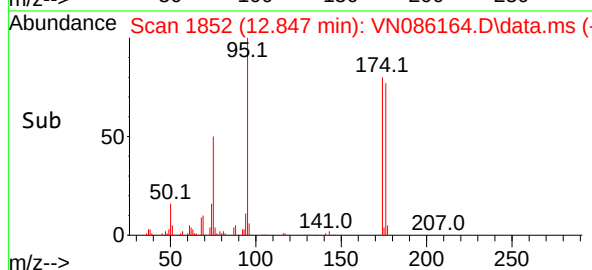
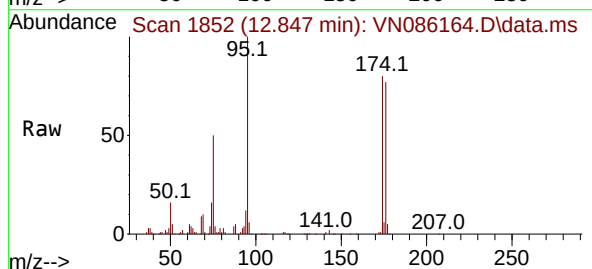
Manual Integrations
APPROVED

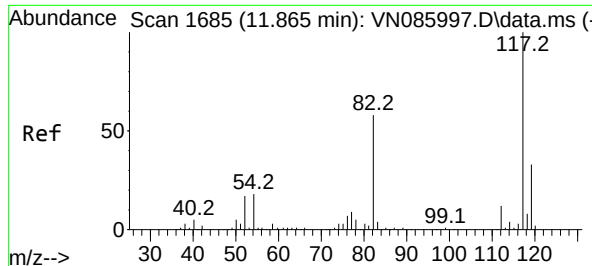
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#62
4-Bromofluorobenzene
Concen: 52.623 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086164.D
Acq: 28 Mar 2025 20:42

Tgt Ion: 95 Resp: 161458
Ion Ratio Lower Upper
95 100
174 78.9 0.0 156.8
176 75.5 0.0 152.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086164.D

Acq: 28 Mar 2025 20:42

Instrument :

MSVOA_N

ClientSampleId :

P001-BBDGA-001-01MSD

Tgt Ion:117 Resp: 31191

Ion Ratio Lower Upper

117 100

82 54.7 46.7 70.1

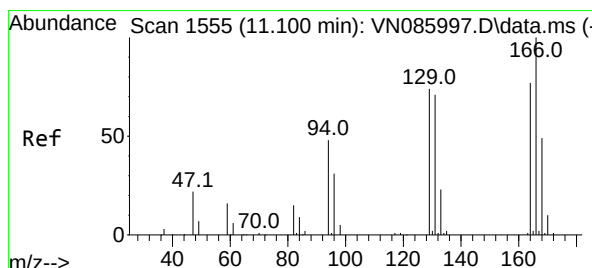
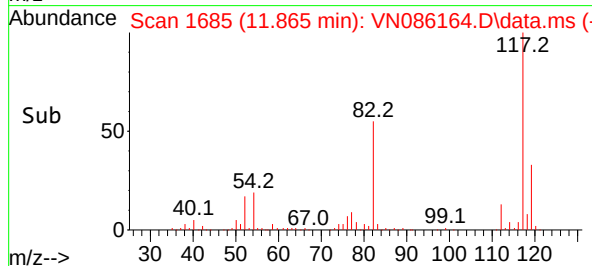
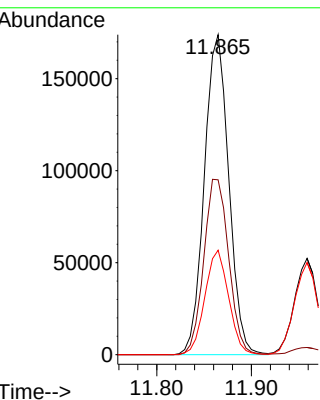
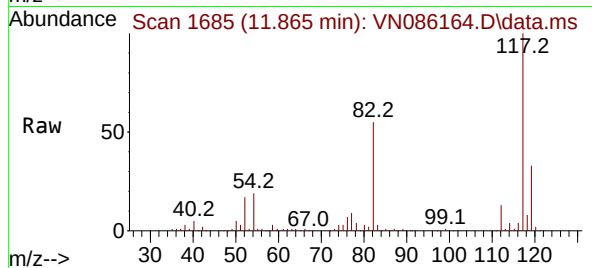
119 32.7 26.5 39.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/31/2025

Supervised By :Mahesh Dadoda 03/31/2025



#64

Tetrachloroethene

Concen: 80.742 ug/l

RT: 11.100 min Scan# 1555

Delta R.T. -0.000 min

Lab File: VN086164.D

Acq: 28 Mar 2025 20:42

Tgt Ion:164 Resp: 200899

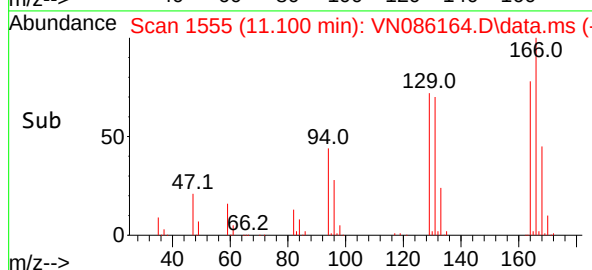
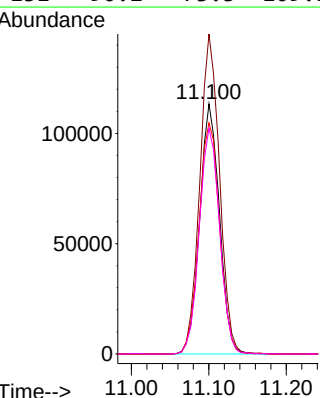
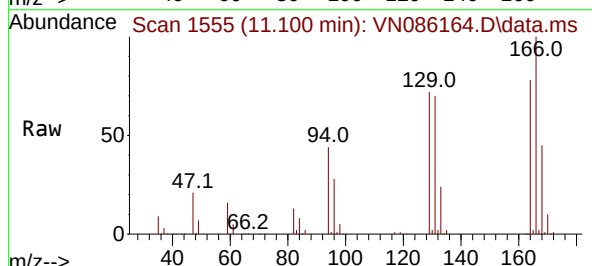
Ion Ratio Lower Upper

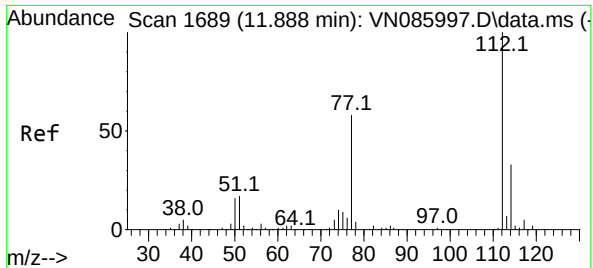
164 100

166 128.0 103.7 155.5

129 92.4 77.1 115.7

131 90.2 73.3 109.9





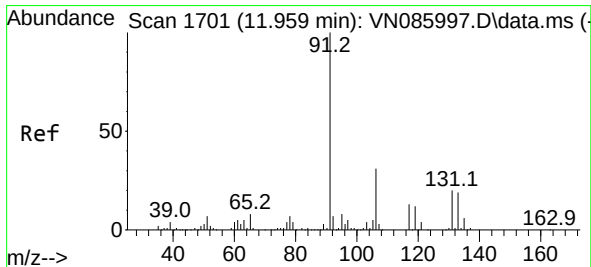
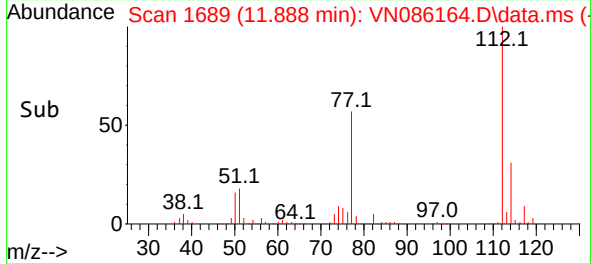
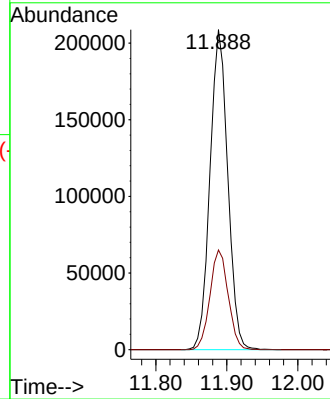
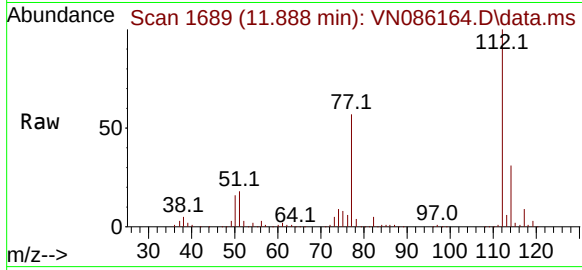
#65
Chlorobenzene
Concen: 50.833 ug/l
RT: 11.888 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086164.D
Acq: 28 Mar 2025 20:42

Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-001-01MSD

Tgt Ion:112 Resp: 36281
Ion Ratio Lower Upper
112 100
114 31.1 26.3 39.5

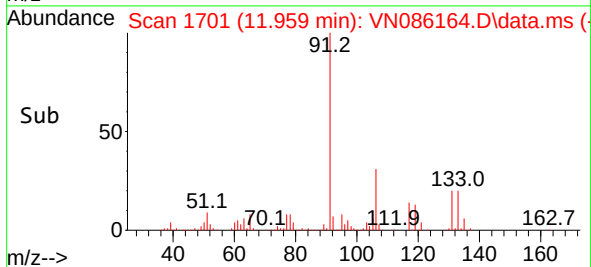
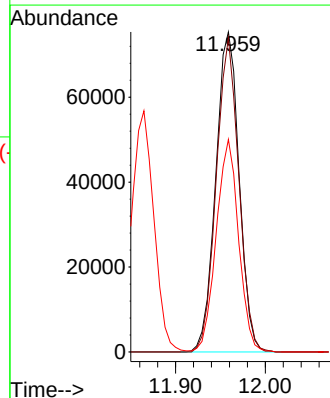
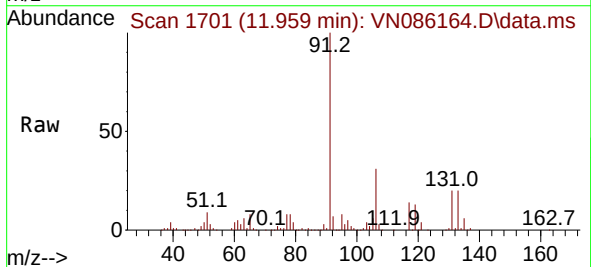
Manual Integrations
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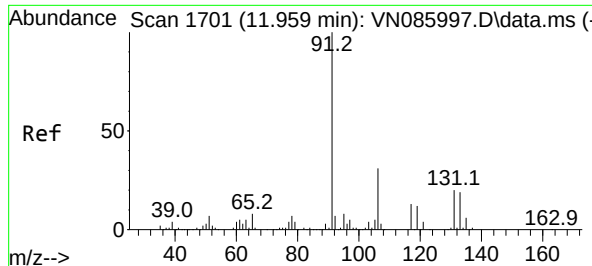
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 51.254 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN086164.D
Acq: 28 Mar 2025 20:42

Tgt Ion:131 Resp: 135988
Ion Ratio Lower Upper
131 100
133 94.8 47.0 141.0
119 63.8 31.4 94.0





#67

Ethyl Benzene

Concen: 54.295 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VN086164.D

Acq: 28 Mar 2025 20:42

Instrument :

MSVOA_N

ClientSampleId :

P001-BBDGA-001-01MSD

Tgt Ion: 91 Resp: 619894

Ion Ratio Lower Upper

91 100

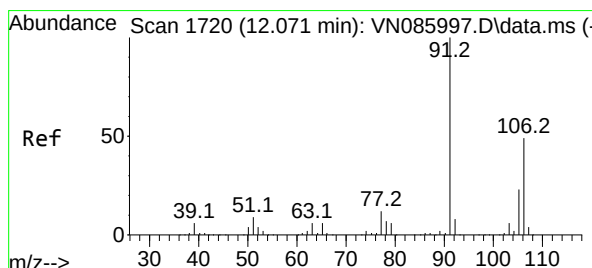
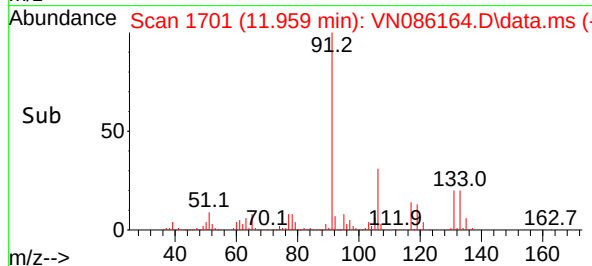
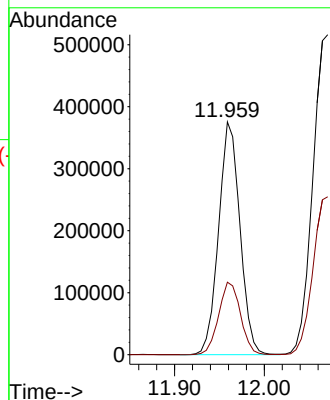
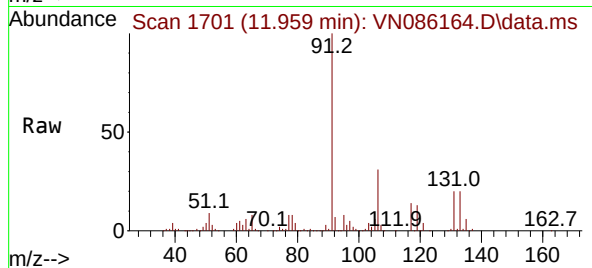
106 31.1 24.5 36.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 03/31/2025

Supervised By :Mahesh Dadoda 03/31/2025



#68

m/p-Xylenes

Concen: 110.900 ug/l

RT: 12.071 min Scan# 1720

Delta R.T. -0.000 min

Lab File: VN086164.D

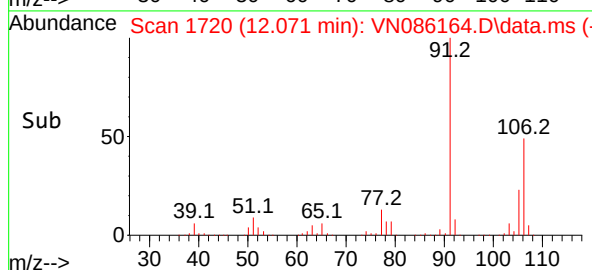
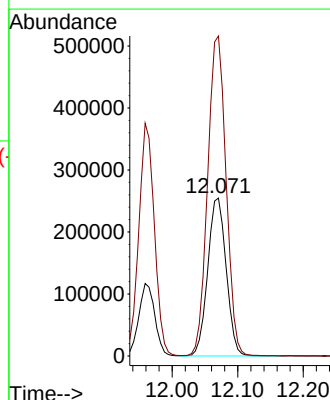
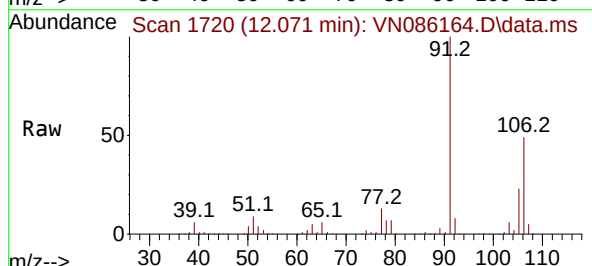
Acq: 28 Mar 2025 20:42

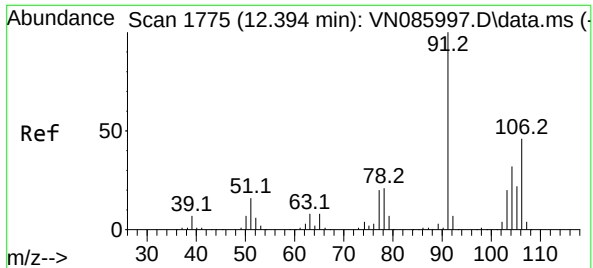
Tgt Ion:106 Resp: 497659

Ion Ratio Lower Upper

106 100

91 202.7 163.9 245.9





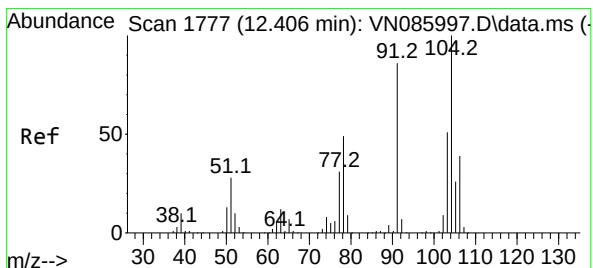
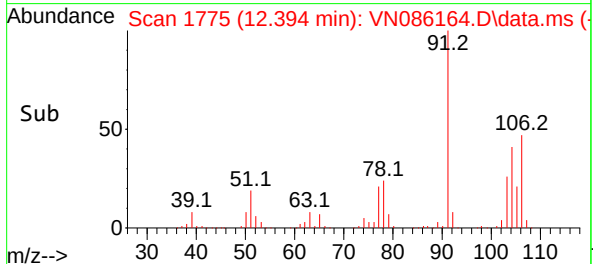
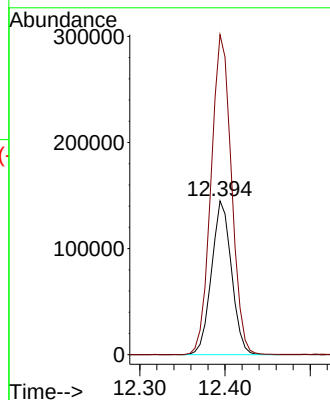
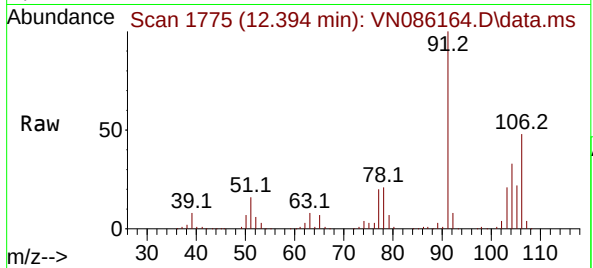
#69
o-Xylene
Concen: 57.235 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. -0.000 min
Lab File: VN086164.D
Acq: 28 Mar 2025 20:42

Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-001-01MSD

Tgt Ion:106 Resp: 235729
Ion Ratio Lower Upper
106 100
91 213.5 109.1 327.2

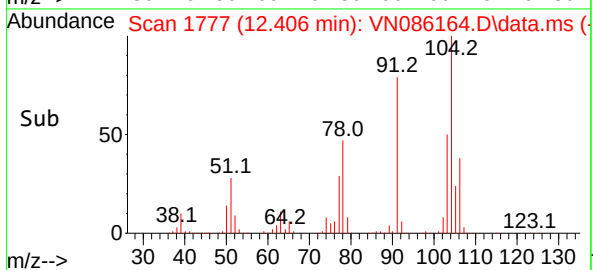
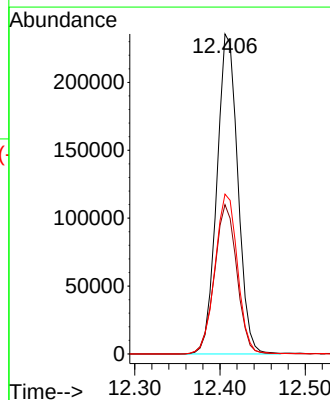
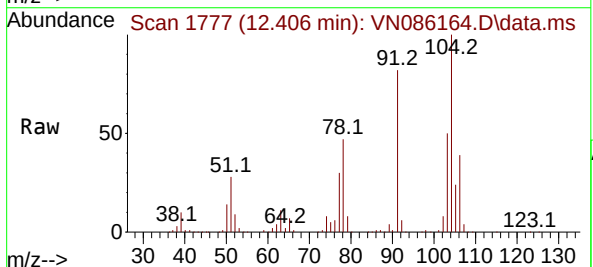
Manual Integrations
APPROVED

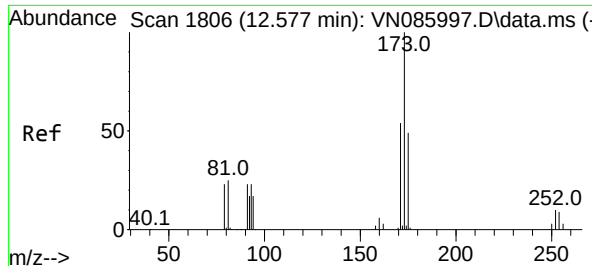
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#70
Styrene
Concen: 57.360 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VN086164.D
Acq: 28 Mar 2025 20:42

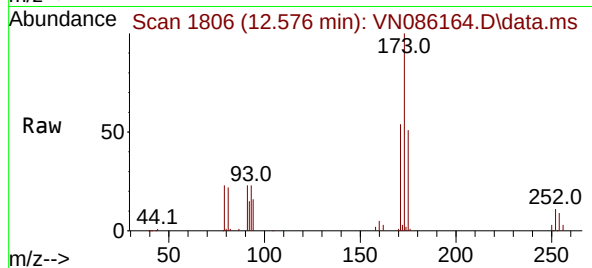
Tgt Ion:104 Resp: 403513
Ion Ratio Lower Upper
104 100
78 49.8 41.4 62.2
103 53.7 42.9 64.3





#71
Bromoform
Concen: 48.194 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. -0.000 min
Lab File: VN086164.D
Acq: 28 Mar 2025 20:42

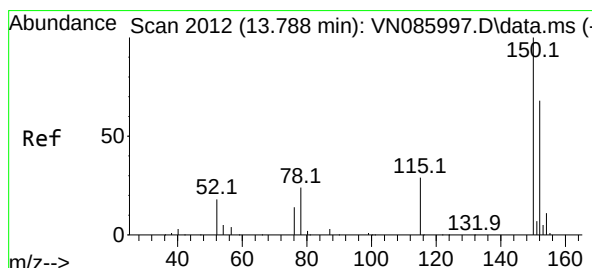
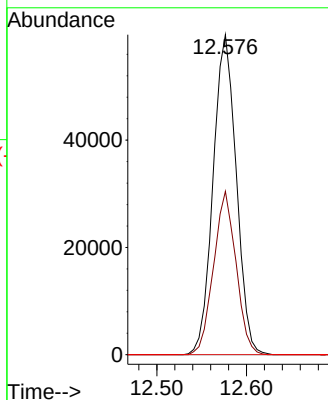
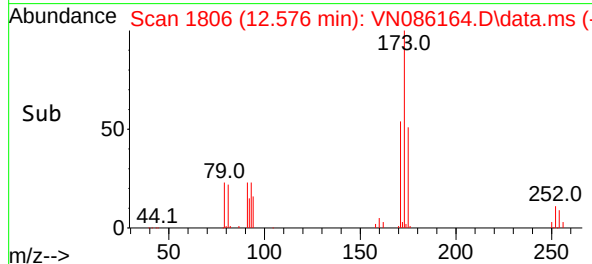
Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-001-01MSD



Tgt Ion:173 Resp: 106894
Ion Ratio Lower Upper
173 100
175 49.5 24.3 73.0
254 0.0 0.0 0.0

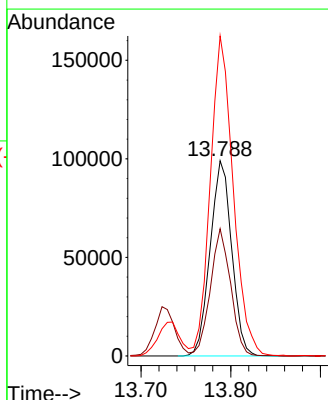
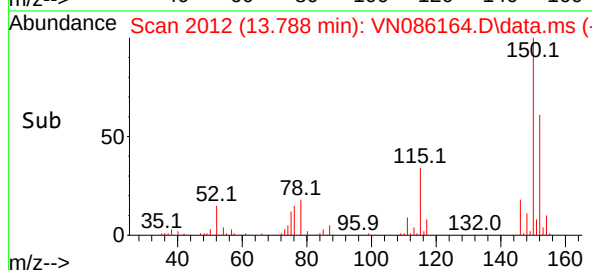
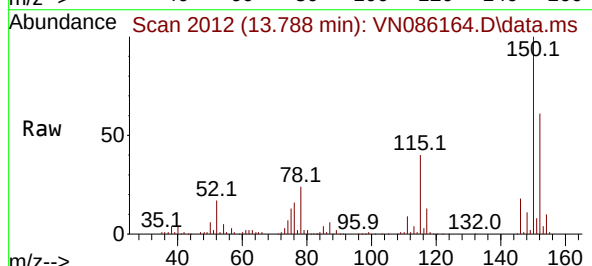
Manual Integrations
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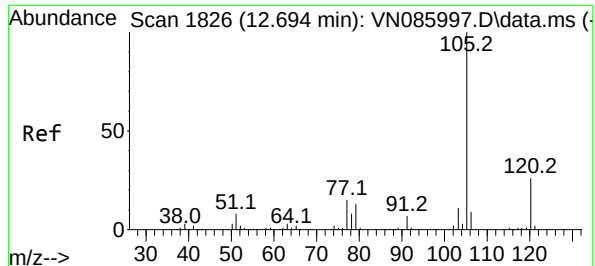
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN086164.D
Acq: 28 Mar 2025 20:42

Tgt Ion:152 Resp: 165361
Ion Ratio Lower Upper
152 100
115 61.5 31.1 93.2
150 174.4 0.0 359.6





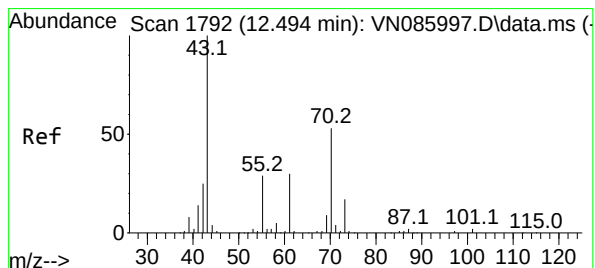
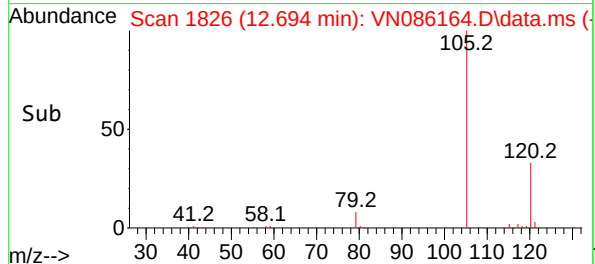
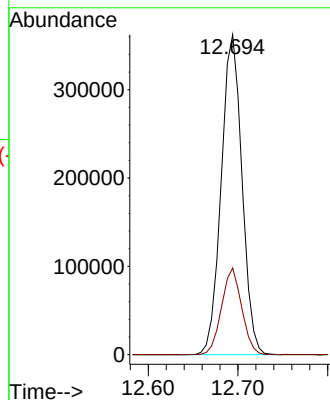
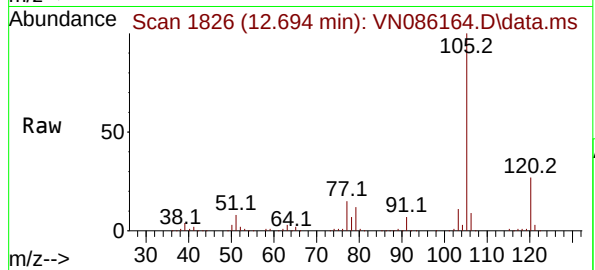
#73
Isopropylbenzene
Concen: 51.526 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. -0.000 min
Lab File: VN086164.D
Acq: 28 Mar 2025 20:42

Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-001-01MSD

Tgt Ion:105 Resp: 581850
Ion Ratio Lower Upper
105 100
120 26.3 13.0 39.0

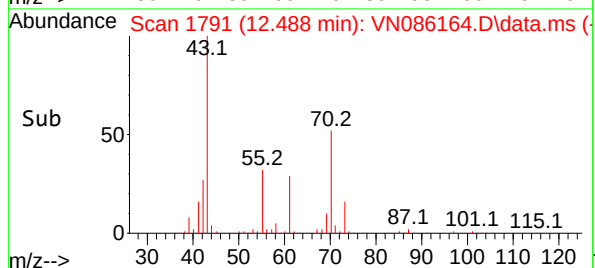
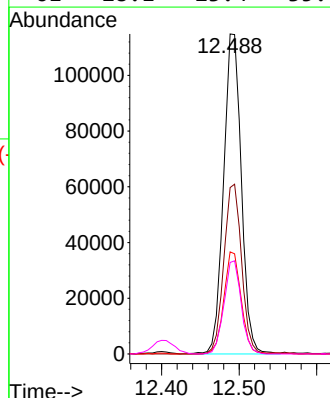
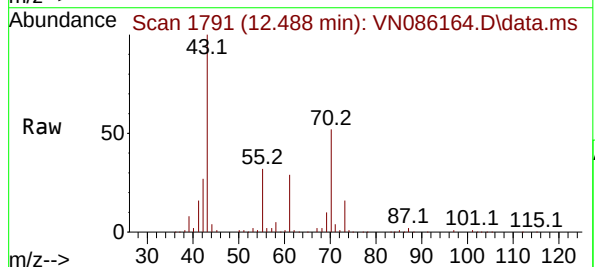
Manual Integrations
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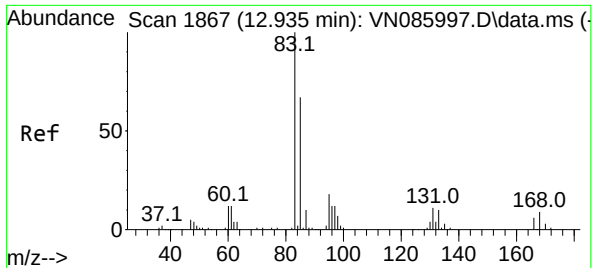
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#74
N-ethyl acetate
Concen: 48.497 ug/l
RT: 12.488 min Scan# 1791
Delta R.T. -0.006 min
Lab File: VN086164.D
Acq: 28 Mar 2025 20:42

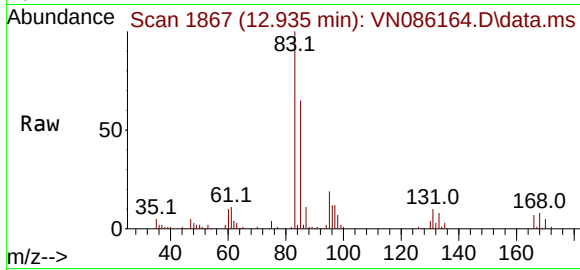
Tgt Ion: 43 Resp: 183222
Ion Ratio Lower Upper
43 100
70 52.8 43.0 64.4
55 31.1 23.8 35.8
61 28.1 23.4 35.0





#75
1,1,2,2-Tetrachloroethane
Concen: 17.711 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. -0.000 min
Lab File: VN086164.D
Acq: 28 Mar 2025 20:42

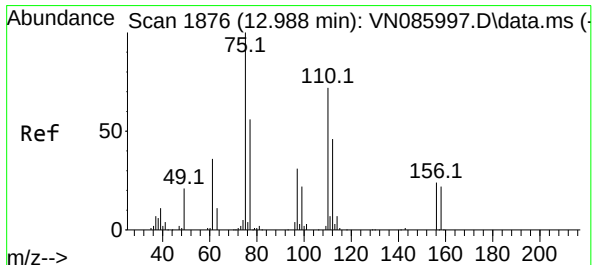
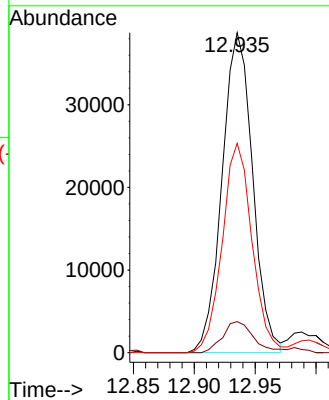
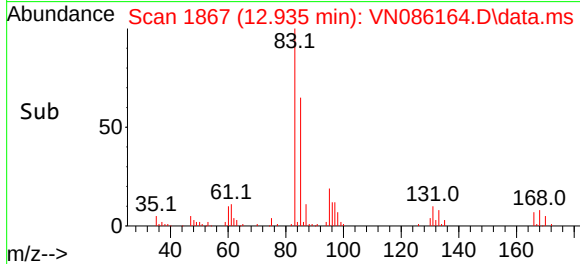
Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-001-01MSD



Tgt Ion: 83 Resp: 67661
Ion Ratio Lower Upper
83 100
131 10.0 5.5 16.5
85 64.0 32.6 97.8

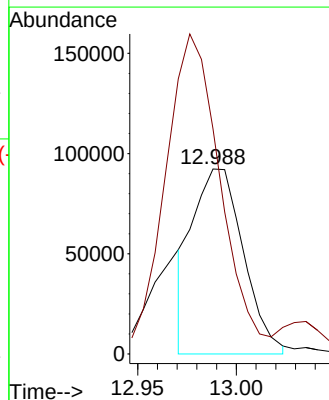
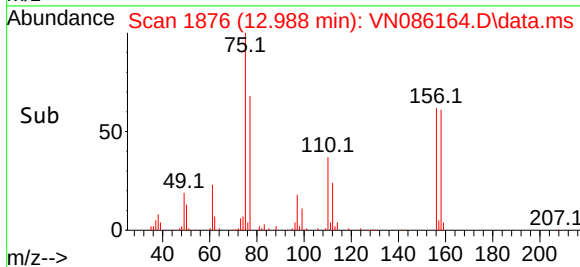
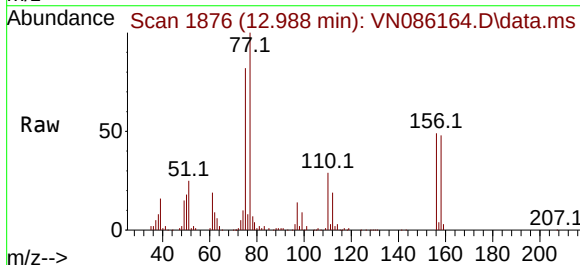
Manual Integrations
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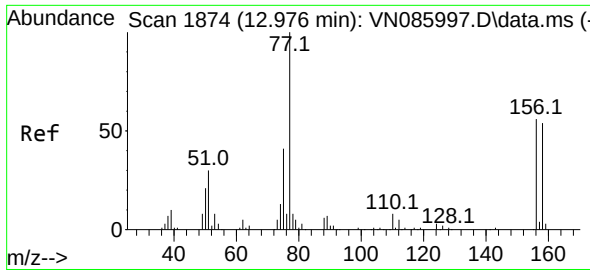
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#76
1,2,3-Trichloropropane
Concen: 44.478 ug/l m
RT: 12.988 min Scan# 1876
Delta R.T. -0.000 min
Lab File: VN086164.D
Acq: 28 Mar 2025 20:42

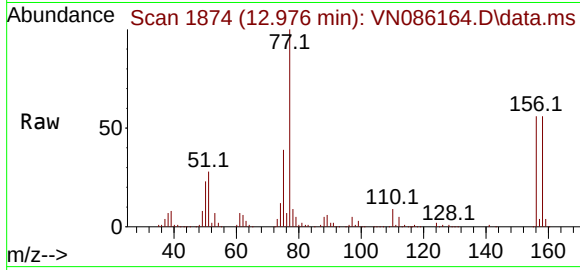
Tgt Ion: 75 Resp: 164661
Ion Ratio Lower Upper
75 100
77 189.7 83.7 251.0





#77
Bromobenzene
Concen: 48.344 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. -0.000 min
Lab File: VN086164.D
Acq: 28 Mar 2025 20:42

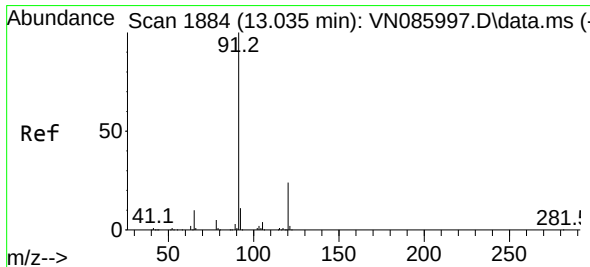
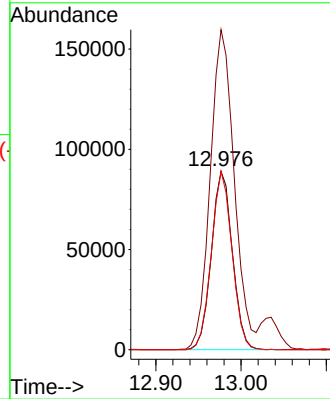
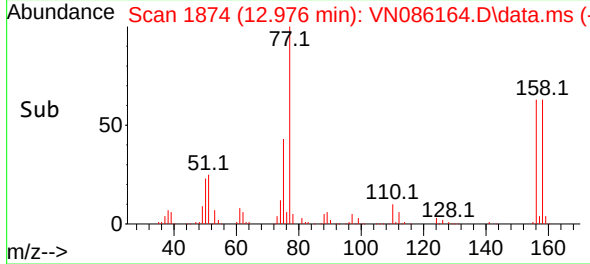
Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-001-01MSD



Tgt Ion:156 Resp: 15222
Ion Ratio Lower Upper
156 100
77 205.2 104.1 312.3
158 98.4 49.0 147.0

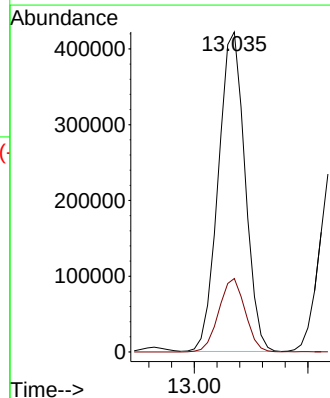
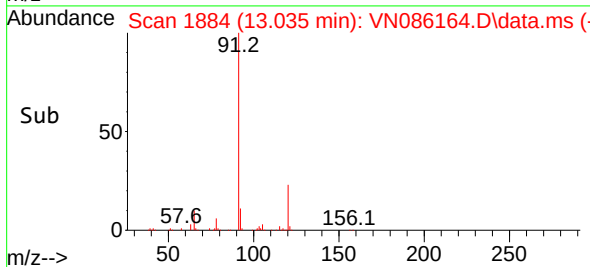
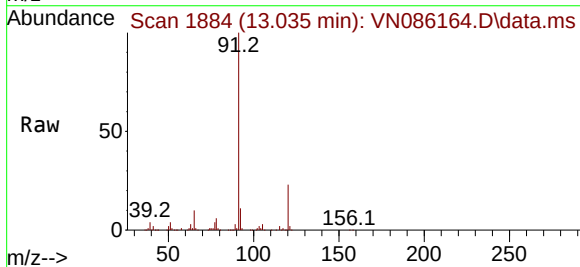
Manual Integrations
APPROVED

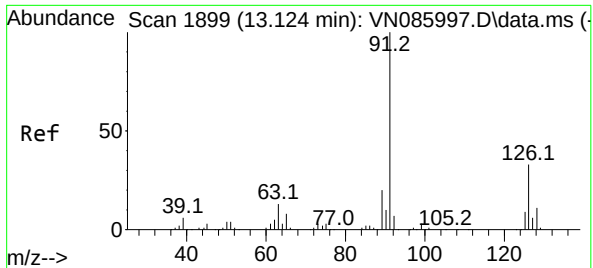
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#78
n-propylbenzene
Concen: 53.812 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN086164.D
Acq: 28 Mar 2025 20:42

Tgt Ion: 91 Resp: 688082
Ion Ratio Lower Upper
91 100
120 22.7 11.7 35.0





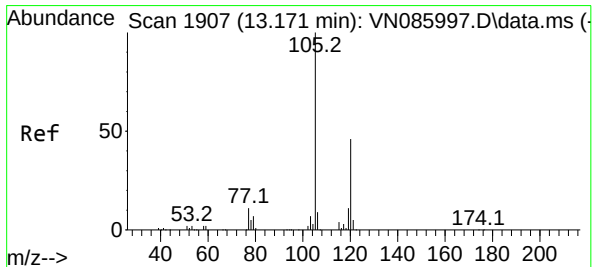
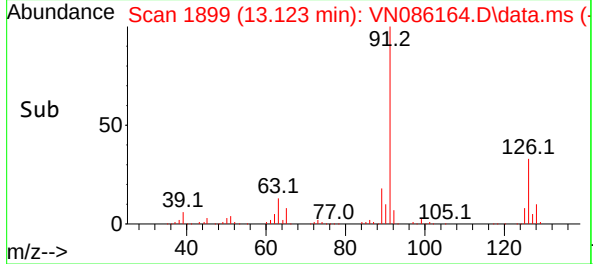
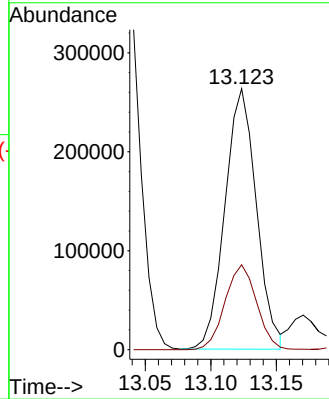
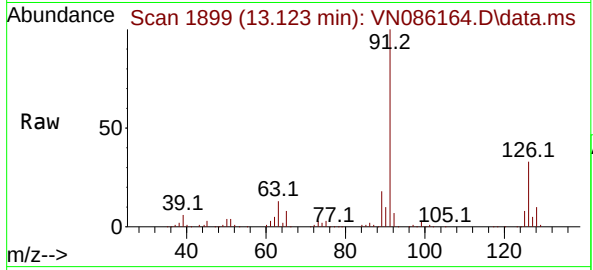
#79
2-Chlorotoluene
Concen: 51.748 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. -0.000 min
Lab File: VN086164.D
Acq: 28 Mar 2025 20:42

Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-001-01MSD

Tgt Ion: 91 Resp: 439500
Ion Ratio Lower Upper
91 100
126 32.8 16.4 49.2

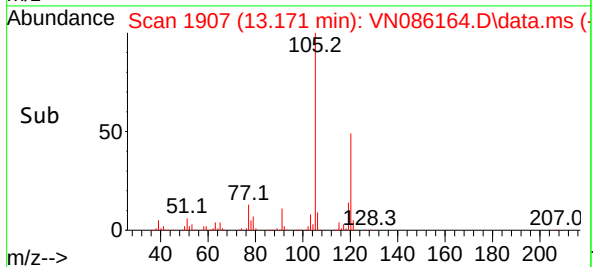
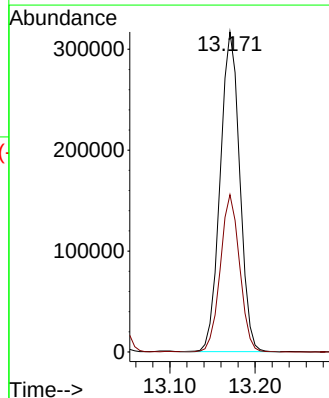
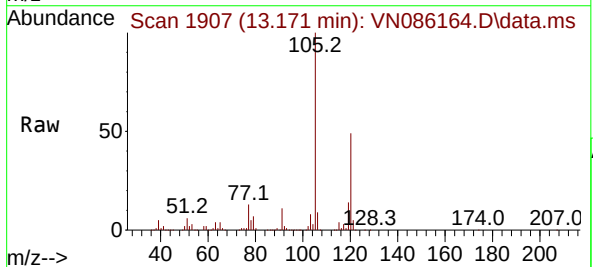
Manual Integrations
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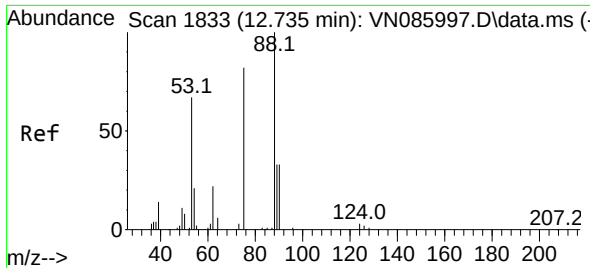
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#80
1,3,5-Trimethylbenzene
Concen: 53.010 ug/l
RT: 13.171 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN086164.D
Acq: 28 Mar 2025 20:42

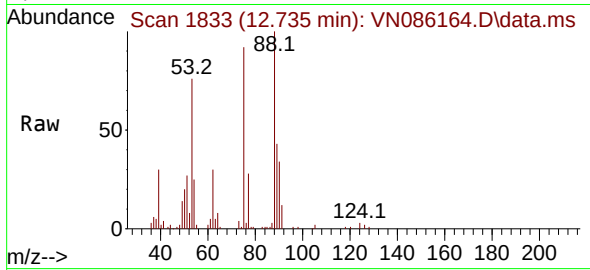
Tgt Ion:105 Resp: 505392
Ion Ratio Lower Upper
105 100
120 48.6 23.7 71.1





#81
trans-1,4-Dichloro-2-butene
Concen: 47.291 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. -0.000 min
Lab File: VN086164.D
Acq: 28 Mar 2025 20:42

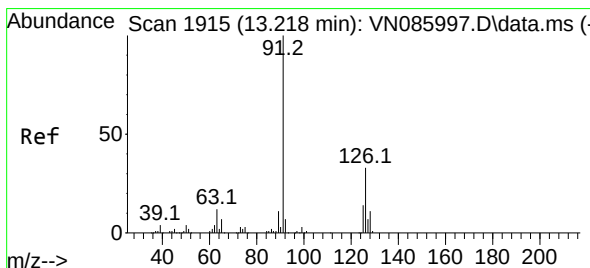
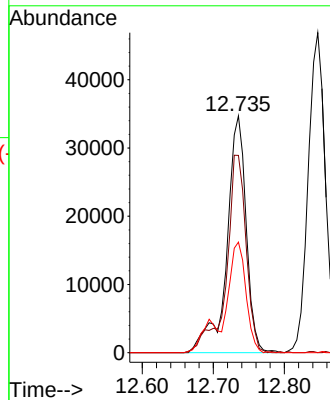
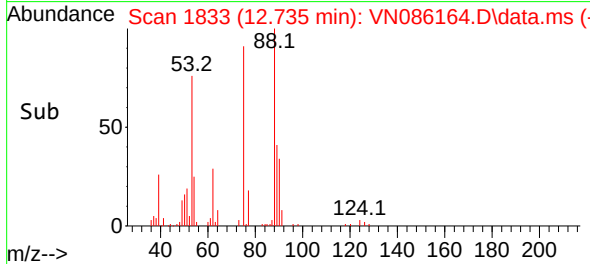
Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-001-01MSD



Tgt Ion: 75 Resp: 6622
Ion Ratio Lower Upper
75 100
53 84.1 66.0 99.0
89 40.1 36.9 55.3

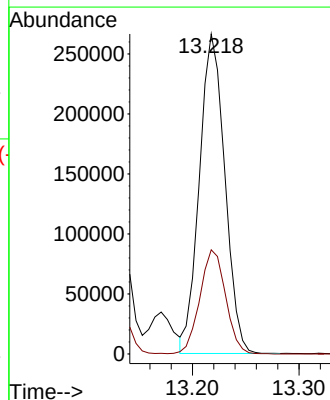
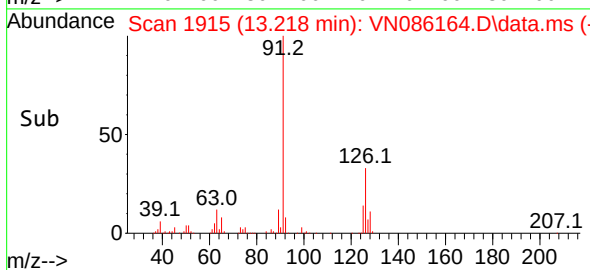
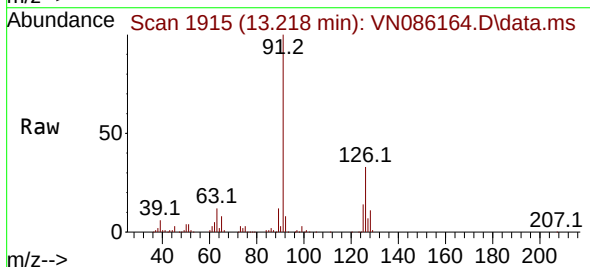
Manual Integrations
APPROVED

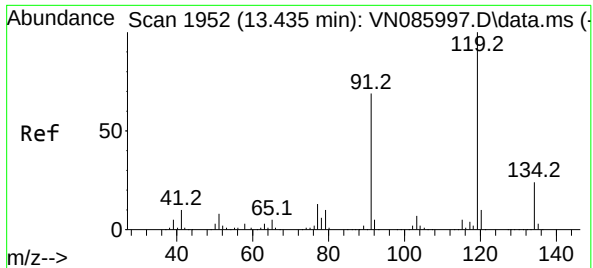
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#82
4-Chlorotoluene
Concen: 50.578 ug/l
RT: 13.218 min Scan# 1915
Delta R.T. -0.000 min
Lab File: VN086164.D
Acq: 28 Mar 2025 20:42

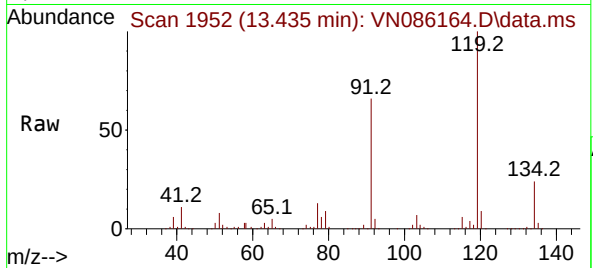
Tgt Ion: 91 Resp: 441745
Ion Ratio Lower Upper
91 100
126 33.1 16.1 48.2





#83
tert-Butylbenzene
Concen: 50.663 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. -0.000 min
Lab File: VN086164.D
Acq: 28 Mar 2025 20:42

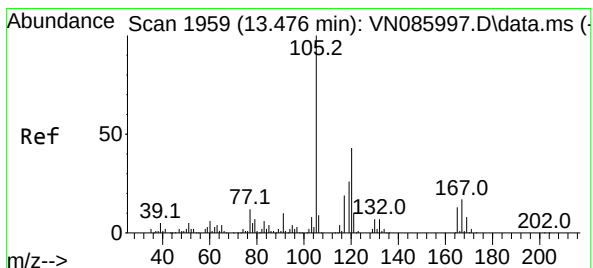
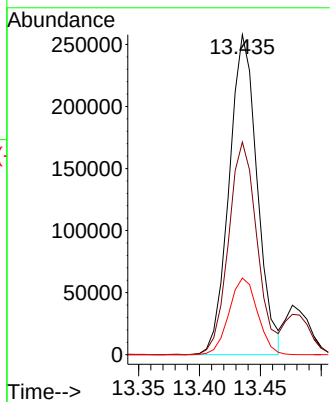
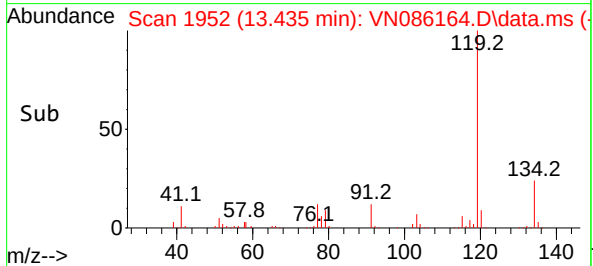
Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-001-01MSD



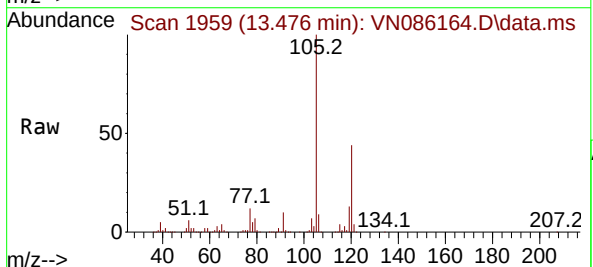
Tgt Ion:119 Resp: 41310
Ion Ratio Lower Upper
119 100
91 67.9 34.3 102.9
134 24.3 13.5 40.5

Manual Integrations
APPROVED

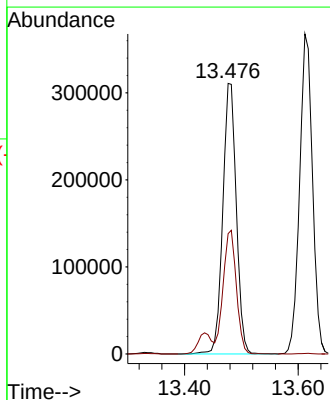
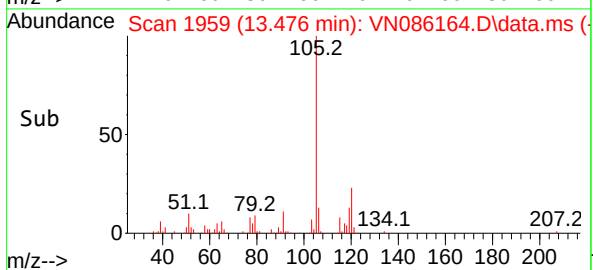
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025

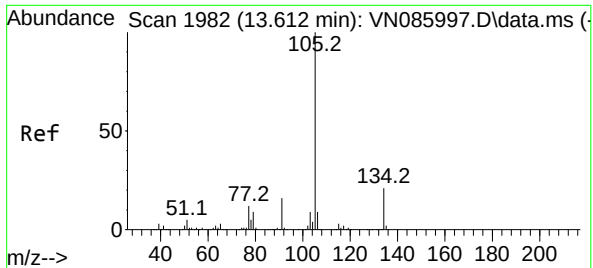


#84
1,2,4-Trimethylbenzene
Concen: 53.586 ug/l
RT: 13.476 min Scan# 1959
Delta R.T. -0.000 min
Lab File: VN086164.D
Acq: 28 Mar 2025 20:42



Tgt Ion:105 Resp: 515282
Ion Ratio Lower Upper
105 100
120 44.6 21.9 65.8





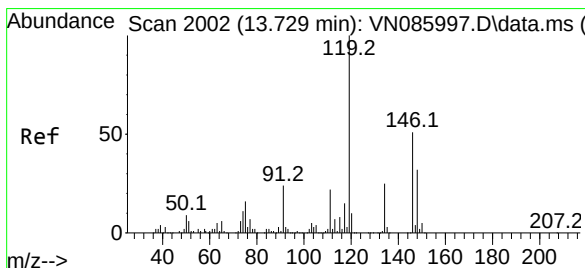
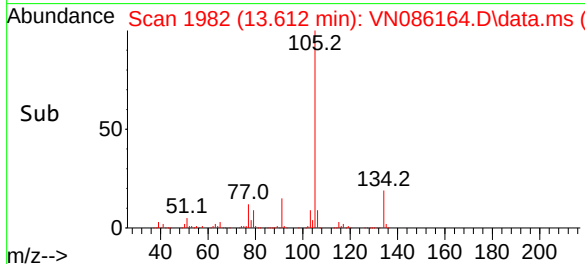
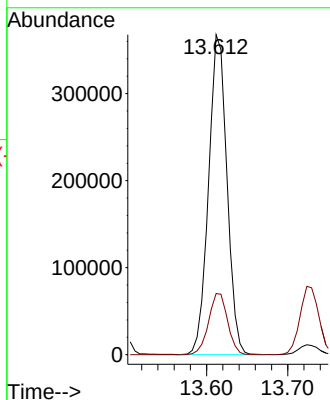
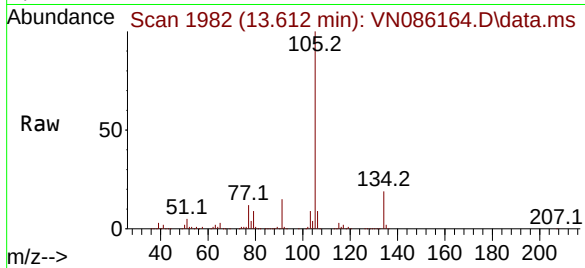
#85
sec-Butylbenzene
Concen: 54.431 ug/l
RT: 13.612 min Scan# 1982
Delta R.T. -0.000 min
Lab File: VN086164.D
Acq: 28 Mar 2025 20:42

Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-001-01MSD

Tgt Ion:105 Resp: 578990
Ion Ratio Lower Upper
105 100
134 19.8 10.1 30.1

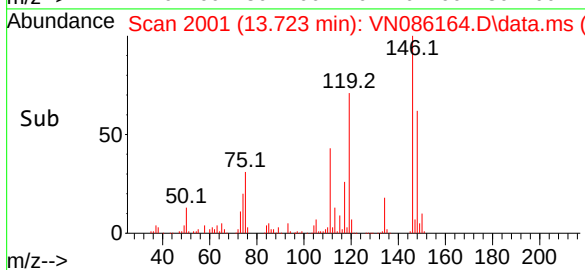
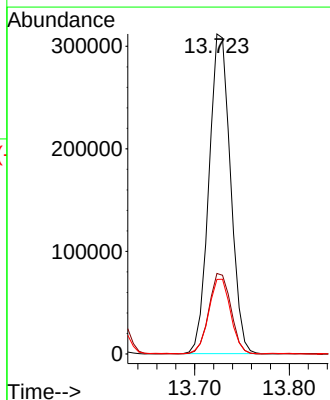
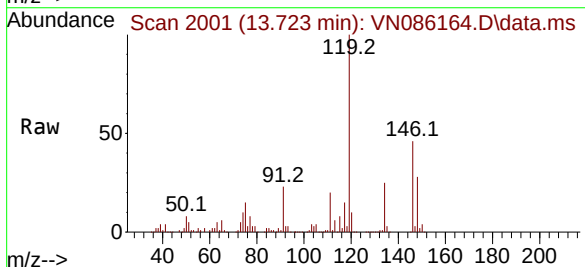
Manual Integrations
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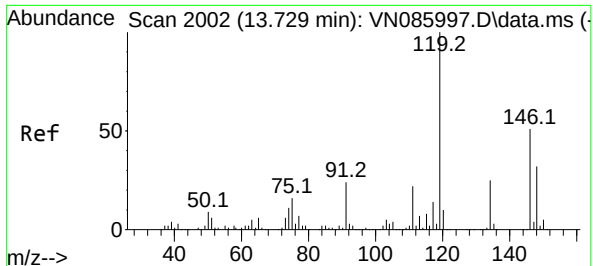
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#86
p-Isopropyltoluene
Concen: 54.580 ug/l
RT: 13.723 min Scan# 2001
Delta R.T. -0.006 min
Lab File: VN086164.D
Acq: 28 Mar 2025 20:42

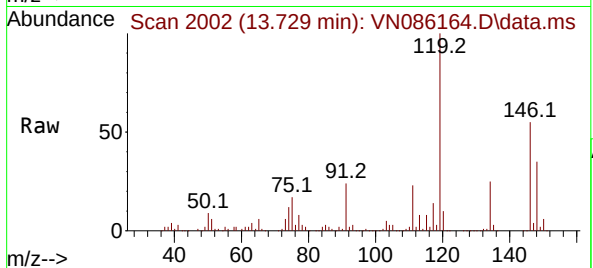
Tgt Ion:119 Resp: 491467
Ion Ratio Lower Upper
119 100
134 25.8 12.6 37.8
91 23.8 12.3 36.8





#87
1,3-Dichlorobenzene
Concen: 50.267 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN086164.D
Acq: 28 Mar 2025 20:42

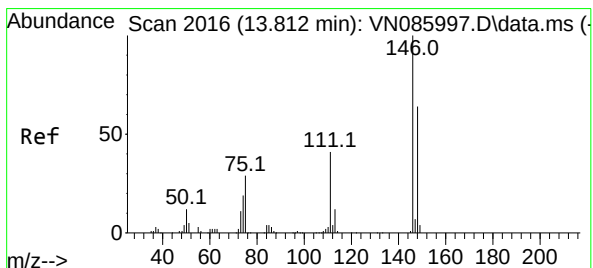
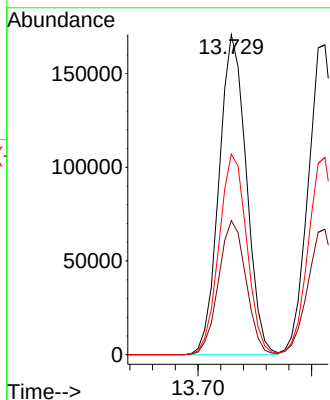
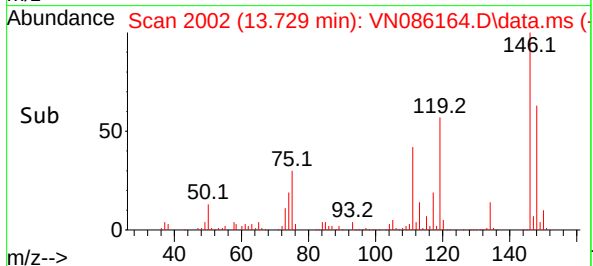
Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-001-01MSD



Tgt Ion:146 Resp: 285290
Ion Ratio Lower Upper
146 100
111 42.2 21.2 63.6
148 63.8 31.8 95.4

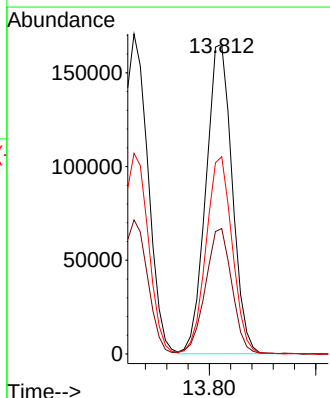
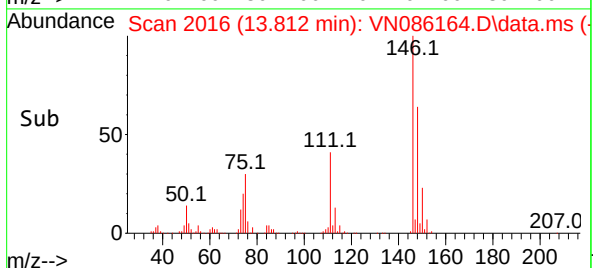
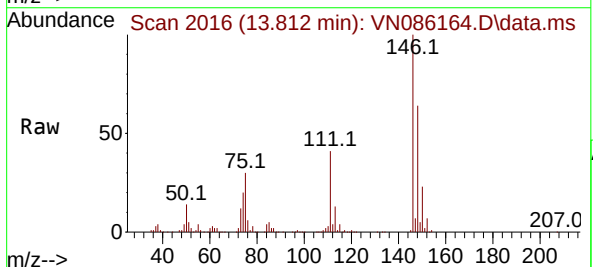
Manual Integrations
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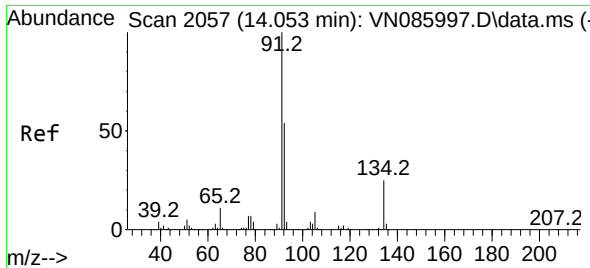
Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#88
1,4-Dichlorobenzene
Concen: 47.471 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN086164.D
Acq: 28 Mar 2025 20:42

Tgt Ion:146 Resp: 283074
Ion Ratio Lower Upper
146 100
111 40.6 20.4 61.3
148 63.8 32.1 96.5





#89

n-Butylbenzene

Concen: 53.978 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.000 min

Lab File: VN086164.D

Acq: 28 Mar 2025 20:42

Instrument :

MSVOA_N

ClientSampleId :

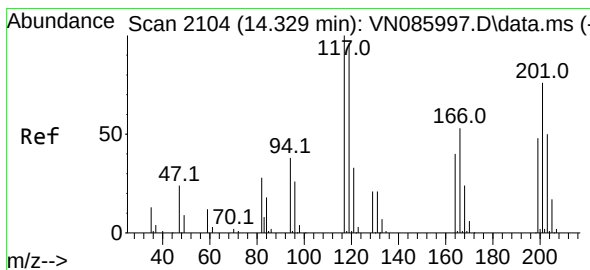
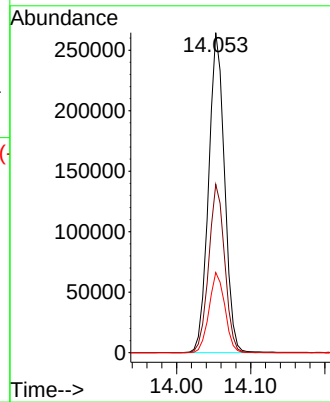
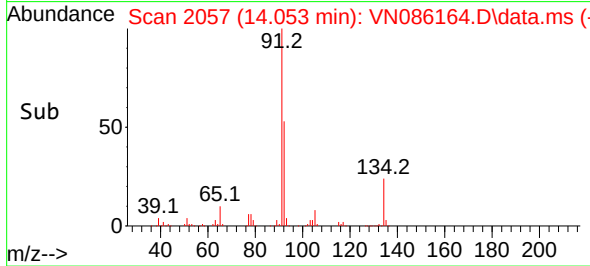
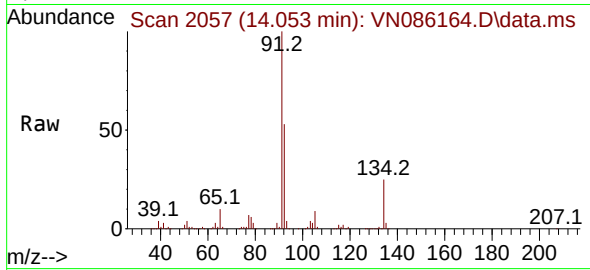
P001-BBDGA-001-01MSD

Tgt Ion:	91	Resp:	395798
Ion	Ratio	Lower	Upper
91	100		
92	52.5	26.9	80.6
134	24.9	13.0	39.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/31/2025

Supervised By :Mahesh Dadoda 03/31/2025



#90

Hexachloroethane

Concen: 45.756 ug/l

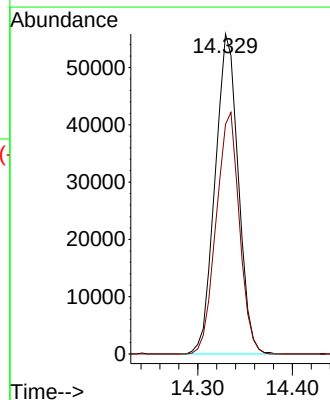
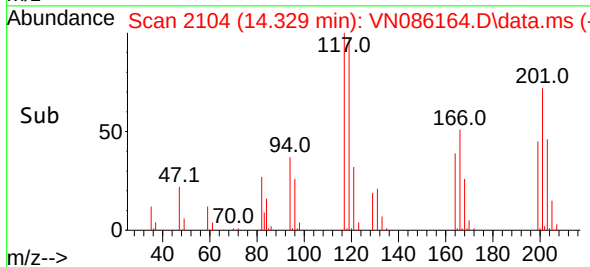
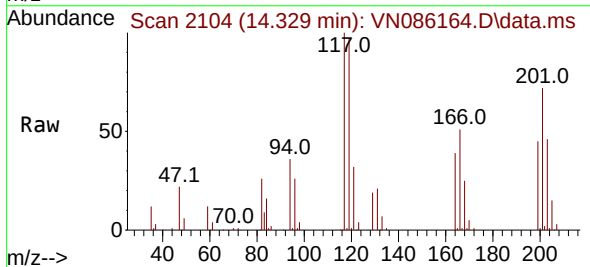
RT: 14.329 min Scan# 2104

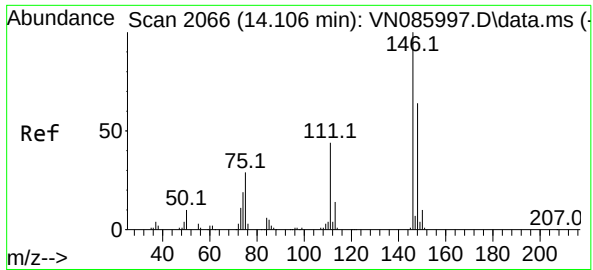
Delta R.T. -0.000 min

Lab File: VN086164.D

Acq: 28 Mar 2025 20:42

Tgt Ion:	117	Resp:	95068
Ion	Ratio	Lower	Upper
117	100		
201	75.6	39.1	117.3





#91

1,2-Dichlorobenzene

Concen: 48.605 ug/l

RT: 14.106 min Scan# 2066

Delta R.T. -0.000 min

Lab File: VN086164.D

Acq: 28 Mar 2025 20:42

Instrument :

MSVOA_N

ClientSampleId :

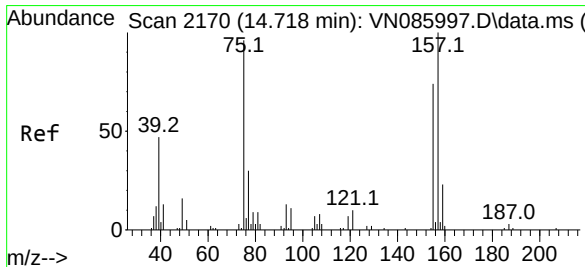
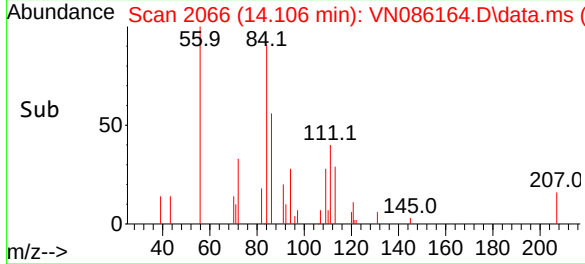
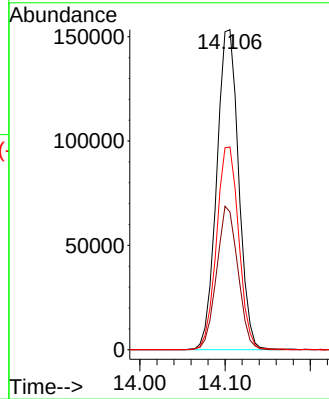
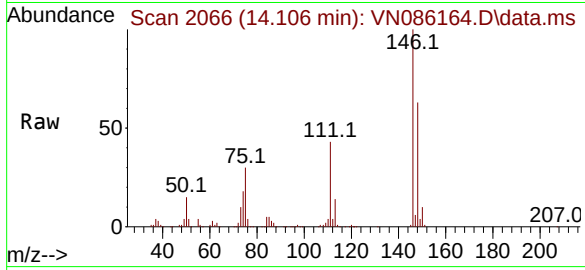
P001-BBDGA-001-01MSD

Tgt Ion:	146	Resp:	27423
Ion Ratio	Lower	Upper	
146	100		
111	43.7	22.3	66.8
148	64.2	32.1	96.5

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/31/2025

Supervised By :Mahesh Dadoda 03/31/2025



#92

1,2-Dibromo-3-Chloropropane

Concen: 44.299 ug/l

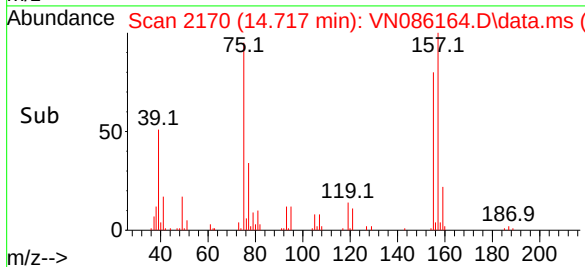
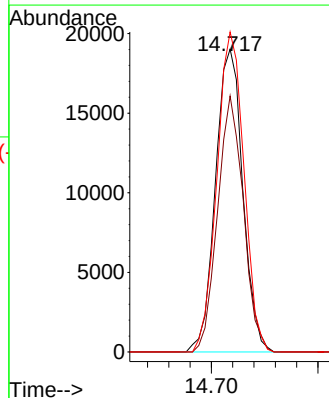
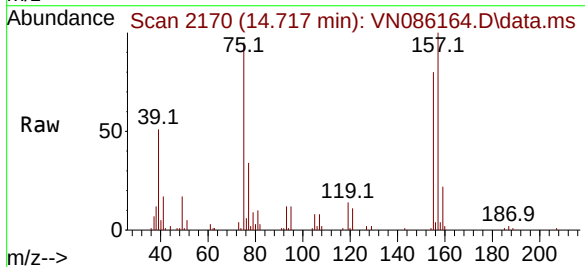
RT: 14.717 min Scan# 2170

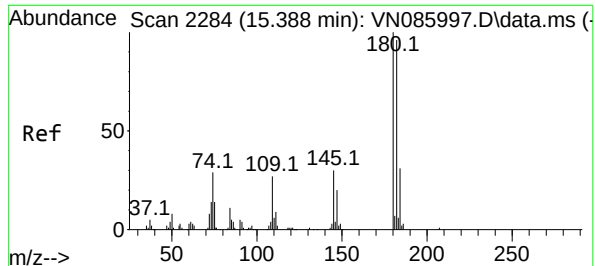
Delta R.T. -0.000 min

Lab File: VN086164.D

Acq: 28 Mar 2025 20:42

Tgt Ion:	75	Resp:	33782
Ion Ratio	Lower	Upper	
75	100		
155	80.0	41.0	123.0
157	104.7	53.7	161.1





#93

1,2,4-Trichlorobenzene

Concen: 47.549 ug/l

RT: 15.388 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN086164.D

Acq: 28 Mar 2025 20:42

Instrument :

MSVOA_N

ClientSampleId :

P001-BBDGA-001-01MSD

Tgt Ion:180 Resp: 13489

Ion Ratio Lower Upper

180 100

182 93.9 47.0 141.0

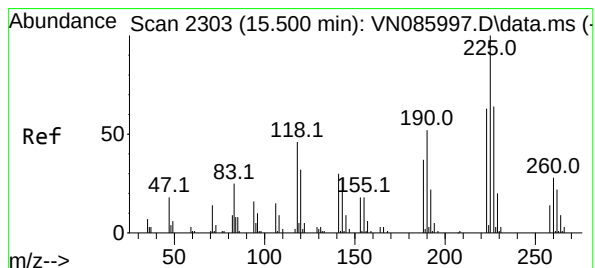
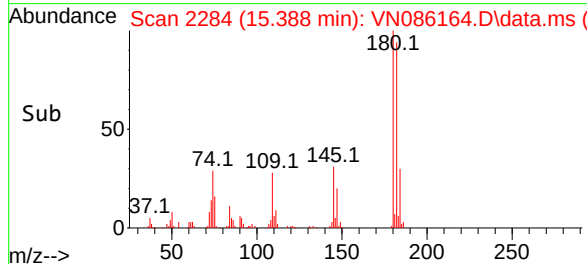
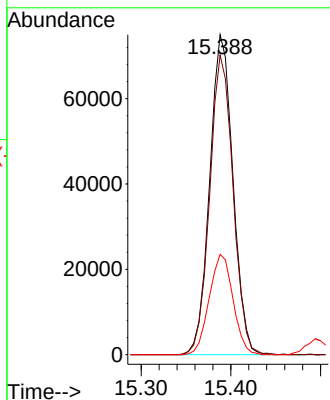
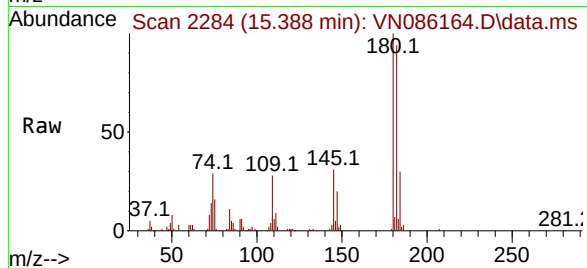
145 32.1 15.5 46.5

Manual Integrations

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Reviewed By :John Carlone 03/31/2025

Supervised By :Mahesh Dadoda 03/31/2025



#94

Hexachlorobutadiene

Concen: 41.999 ug/l

RT: 15.494 min Scan# 2302

Delta R.T. -0.006 min

Lab File: VN086164.D

Acq: 28 Mar 2025 20:42

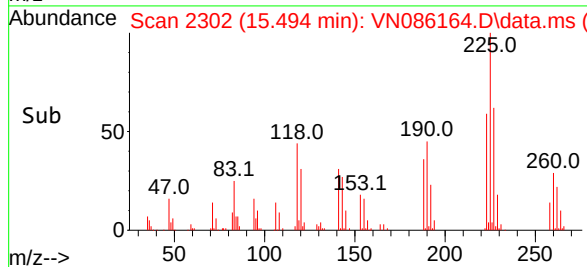
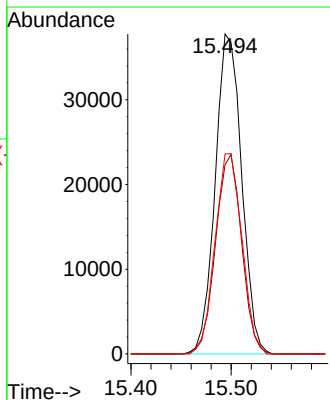
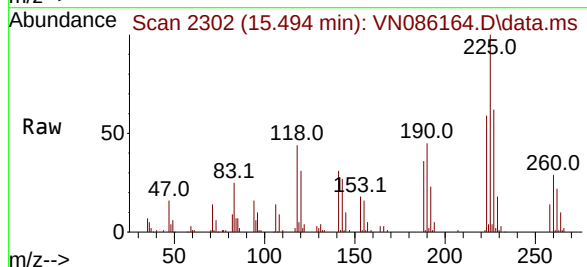
Tgt Ion:225 Resp: 69127

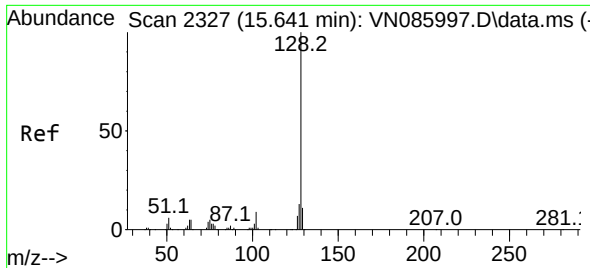
Ion Ratio Lower Upper

225 100

223 61.5 31.3 93.9

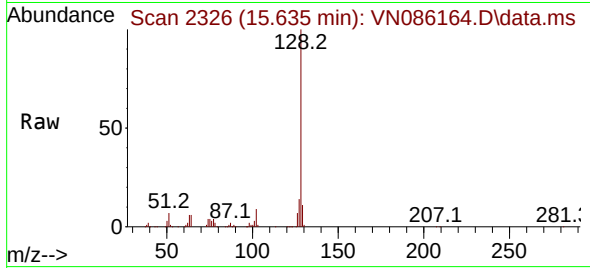
227 63.6 32.1 96.3





#95
Naphthalene
Concen: 48.351 ug/l
RT: 15.635 min Scan# 2327
Delta R.T. -0.006 min
Lab File: VN086164.D
Acq: 28 Mar 2025 20:42

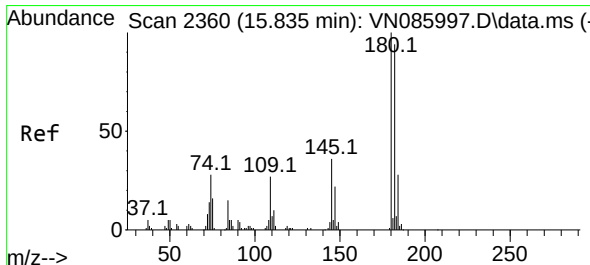
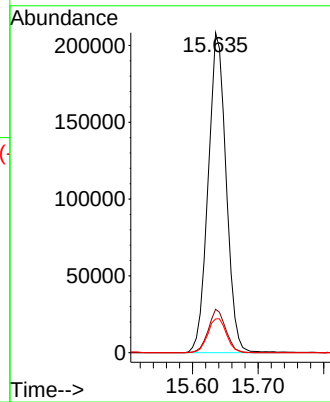
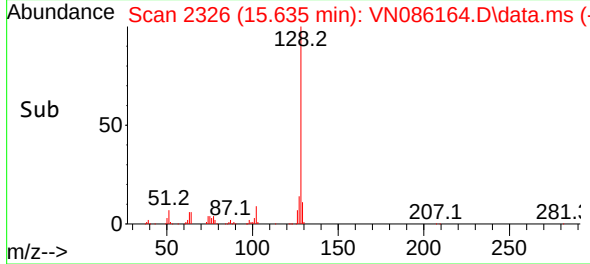
Instrument :
MSVOA_N
ClientSampleId :
P001-BBDGA-001-01MSD



Tgt Ion:128 Resp: 397198
Ion Ratio Lower Upper
128 100
127 13.2 10.2 15.4
129 11.0 9.0 13.6

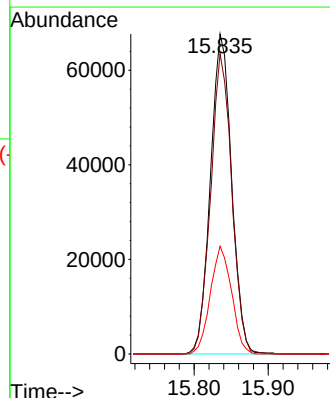
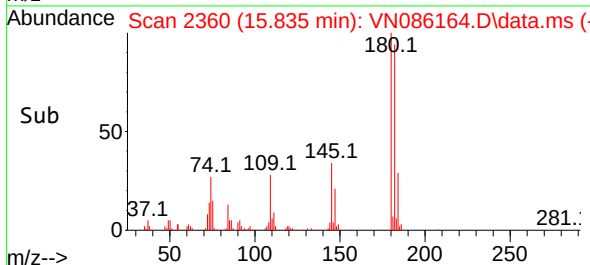
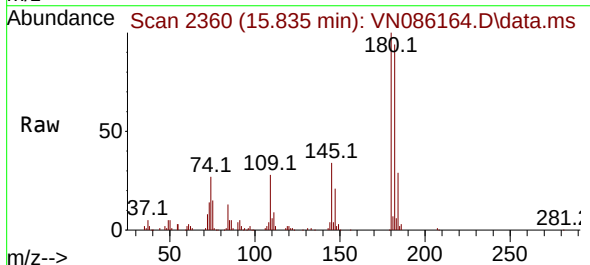
Manual Integrations
APPROVED

Reviewed By :John Carlone 03/31/2025
Supervised By :Mahesh Dadoda 03/31/2025



#96
1,2,3-Trichlorobenzene
Concen: 49.911 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VN086164.D
Acq: 28 Mar 2025 20:42

Tgt Ion:180 Resp: 134358
Ion Ratio Lower Upper
180 100
182 93.2 47.5 142.5
145 33.7 17.7 53.1



Manual Integration Report

Sequence:	VN031825	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC100	VN085996.D	1,2,3-Trichloropropane	JOHN	3/19/2025 9:42:30 AM	MMDadoda	3/19/2025 2:21:56 PM	Peak Integrated by Software
VSTDICCC050	VN085997.D	1,2,3-Trichloropropane	JOHN	3/19/2025 9:42:35 AM	MMDadoda	3/19/2025 2:21:58 PM	Peak Integrated by Software
VSTDICCC050	VN085997.D	Isopropyl Acetate	JOHN	3/19/2025 9:42:35 AM	MMDadoda	3/19/2025 2:21:58 PM	Peak Integrated by Software
VSTDICC020	VN085998.D	1,2,3-Trichloropropane	JOHN	3/19/2025 9:42:41 AM	MMDadoda	3/19/2025 2:22:00 PM	Peak Integrated by Software
VSTDICC020	VN085998.D	Isopropyl Acetate	JOHN	3/19/2025 9:42:41 AM	MMDadoda	3/19/2025 2:22:00 PM	Peak Integrated by Software
VSTDICC020	VN085998.D	Vinyl Acetate	JOHN	3/19/2025 9:42:41 AM	MMDadoda	3/19/2025 2:22:00 PM	Peak Integrated by Software
VSTDICC010	VN085999.D	1,2,3-Trichloropropane	JOHN	3/19/2025 9:42:46 AM	MMDadoda	3/19/2025 2:22:02 PM	Peak Integrated by Software
VSTDICC010	VN085999.D	Isopropyl Acetate	JOHN	3/19/2025 9:42:46 AM	MMDadoda	3/19/2025 2:22:02 PM	Peak Integrated by Software
VSTDICC005	VN086000.D	1,2,3-Trichloropropane	JOHN	3/19/2025 9:42:51 AM	MMDadoda	3/19/2025 2:22:03 PM	Peak Integrated by Software
VSTDICC001	VN086001.D	1,1,2-Trichlorotrifluoroethane	JOHN	3/19/2025 9:42:57 AM	MMDadoda	3/19/2025 2:22:05 PM	Peak Integrated by Software
VSTDICC001	VN086001.D	1,1-Dichloroethane	JOHN	3/19/2025 9:42:57 AM	MMDadoda	3/19/2025 2:22:05 PM	Peak Integrated by Software
VSTDICC001	VN086001.D	1,2,3-Trichloropropane	JOHN	3/19/2025 9:42:57 AM	MMDadoda	3/19/2025 2:22:05 PM	Peak Integrated by Software
VSTDICC001	VN086001.D	1,4-Dichlorobenzene	JOHN	3/19/2025 9:42:57 AM	MMDadoda	3/19/2025 2:22:05 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

VN031825

Instrument

MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VN086001.D	Diisopropyl ether	JOHN	3/19/2025 9:42:57 AM	MMDadoda	3/19/2025 2:22:05 PM	Peak Integrated by Software
VSTDICC001	VN086001.D	Ethyl Acetate	JOHN	3/19/2025 9:42:57 AM	MMDadoda	3/19/2025 2:22:05 PM	Peak Integrated by Software
VSTDICV050	VN086003.D	1,2,3-Trichloropropane	JOHN	3/19/2025 9:43:04 AM	MMDadoda	3/19/2025 2:22:08 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

VN032825

Instrument

MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VN086140.D	1,2,3-Trichloropropane	JOHN	3/31/2025 9:49:13 AM	MMDadoda	3/31/2025 9:56:29 AM	Peak Integrated by Software
VN0328WBS01	VN086143.D	1,2,3-Trichloropropane	JOHN	3/31/2025 9:49:17 AM	MMDadoda	3/31/2025 9:56:28 AM	Peak Integrated by Software
Q1664-05MS	VN086163.D	1,2,3-Trichloropropane	JOHN	3/31/2025 9:49:36 AM	MMDadoda	3/31/2025 9:56:24 AM	Peak Integrated by Software
Q1664-06MSD	VN086164.D	1,2,3-Trichloropropane	JOHN	3/31/2025 9:49:41 AM	MMDadoda	3/31/2025 9:56:22 AM	Peak Integrated by Software
VSTDCCC050	VN086166.D	1,2,3-Trichloropropane	JOHN	3/31/2025 9:49:51 AM	MMDadoda	3/31/2025 9:56:20 AM	Peak Integrated by Software

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QCBatch ID # VN031825

Review By	John Carlone	Review On	3/19/2025 9:43:20 AM
Supervise By	Mahesh Dadoda	Supervise On	3/19/2025 2:22:13 PM
SubDirectory	VN031825	HP Acquire Method	HP Processing Method 82N031825W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP133352		
Initial Calibration Stds	VP133393,VP133394,VP133395,VP133396,VP133397,VP133399		
CCC	VP133353		
Internal Standard/PEM			
ICV/I.BLK	VP133401		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN085994.D	18 Mar 2025 08:52	JC\MD	Ok
2	VSTDCCC050	VN085995.D	18 Mar 2025 10:55	JC\MD	Not Ok
3	VSTDICC100	VN085996.D	18 Mar 2025 11:44	JC\MD	Ok,M
4	VSTDICCC050	VN085997.D	18 Mar 2025 12:08	JC\MD	Ok,M
5	VSTDICC020	VN085998.D	18 Mar 2025 12:32	JC\MD	Ok,M
6	VSTDICC010	VN085999.D	18 Mar 2025 12:57	JC\MD	Ok,M
7	VSTDICC005	VN086000.D	18 Mar 2025 13:21	JC\MD	Ok,M
8	VSTDICC001	VN086001.D	18 Mar 2025 14:09	JC\MD	Ok,M
9	IBLK	VN086002.D	18 Mar 2025 14:34	JC\MD	Ok
10	VSTDICV050	VN086003.D	18 Mar 2025 16:49	JC\MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN032825

Review By	John Carlone	Review On	3/31/2025 9:53:34 AM
Supervise By	Maresh Dadoda	Supervise On	3/31/2025 9:56:37 AM
SubDirectory	VN032825	HP Acquire Method	HP Processing Method 82N031825W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP133515		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP133516,VP133517		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN086139.D	28 Mar 2025 10:11	JC\MD	Ok
2	VSTDCCC050	VN086140.D	28 Mar 2025 10:44	JC\MD	Ok,M
3	VN0328MBL01	VN086141.D	28 Mar 2025 11:19	JC\MD	Ok
4	VN0328WBL01	VN086142.D	28 Mar 2025 11:43	JC\MD	Ok
5	VN0328WBS01	VN086143.D	28 Mar 2025 12:07	JC\MD	Ok,M
6	VN0328WBSD01	VN086144.D	28 Mar 2025 12:41	JC\MD	Ok,M
7	Q1648-02	VN086145.D	28 Mar 2025 13:05	JC\MD	Ok
8	Q1648-04	VN086146.D	28 Mar 2025 13:29	JC\MD	Ok
9	Q1648-06	VN086147.D	28 Mar 2025 13:53	JC\MD	Ok
10	Q1648-08	VN086148.D	28 Mar 2025 14:18	JC\MD	Ok
11	Q1648-10	VN086149.D	28 Mar 2025 14:42	JC\MD	Ok
12	Q1648-12	VN086150.D	28 Mar 2025 15:06	JC\MD	Ok
13	Q1648-14	VN086151.D	28 Mar 2025 15:30	JC\MD	Ok
14	Q1661-02	VN086152.D	28 Mar 2025 15:54	JC\MD	Ok
15	Q1664-08	VN086153.D	28 Mar 2025 16:18	JC\MD	Ok
16	Q1664-10	VN086154.D	28 Mar 2025 16:42	JC\MD	Ok
17	Q1664-12	VN086155.D	28 Mar 2025 17:06	JC\MD	Ok
18	Q1664-14	VN086156.D	28 Mar 2025 17:30	JC\MD	Ok
19	Q1664-16	VN086157.D	28 Mar 2025 17:54	JC\MD	Ok
20	Q1664-18	VN086158.D	28 Mar 2025 18:18	JC\MD	Ok
21	Q1664-20	VN086159.D	28 Mar 2025 18:42	JC\MD	Ok

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QCBatch ID # VN032825

Review By	John Carlone	Review On	3/31/2025 9:53:34 AM
Supervise By	Mahesh Dadoda	Supervise On	3/31/2025 9:56:37 AM
SubDirectory	VN032825	HP Acquire Method	HP Processing Method 82N031825W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP133515		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP133516,VP133517		

22	Q1664-22	VN086160.D	28 Mar 2025 19:06	JC\MD	Ok
23	Q1666-01	VN086161.D	28 Mar 2025 19:30	JC\MD	Ok
24	Q1664-04	VN086162.D	28 Mar 2025 19:54	JC\MD	Ok
25	Q1664-05MS	VN086163.D	28 Mar 2025 20:18	JC\MD	Ok,M
26	Q1664-06MSD	VN086164.D	28 Mar 2025 20:42	JC\MD	Ok,M
27	VN0328MBS01	VN086165.D	28 Mar 2025 21:06	JC\MD	Ok,M
28	VSTDCCC050	VN086166.D	28 Mar 2025 21:30	JC\MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN031825

Review By	John Carlone	Review On	3/19/2025 9:43:20 AM
Supervise By	Mahesh Dadoda	Supervise On	3/19/2025 2:22:13 PM
SubDirectory	VN031825	HP Acquire Method	HP Processing Method 82N031825W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133352
Initial Calibration Stds	VP133393,VP133394,VP133395,VP133396,VP133397,VP133399
CCC	VP133353
Internal Standard/PEM	
ICV/I.BLK	VP133401
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN085994.D	18 Mar 2025 08:52		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN085995.D	18 Mar 2025 10:55	Need ICAL	JC\MD	Not Ok
3	VSTDICC100	VSTDICC100	VN085996.D	18 Mar 2025 11:44		JC\MD	Ok,M
4	VSTDICCC050	VSTDICCC050	VN085997.D	18 Mar 2025 12:08	Comp.#56 and 58 is on Quadratic Regression	JC\MD	Ok,M
5	VSTDICC020	VSTDICC020	VN085998.D	18 Mar 2025 12:32		JC\MD	Ok,M
6	VSTDICC010	VSTDICC010	VN085999.D	18 Mar 2025 12:57	%D failed for Comp. #58 in 01PPB and 20PPB	JC\MD	Ok,M
7	VSTDICC005	VSTDICC005	VN086000.D	18 Mar 2025 13:21		JC\MD	Ok,M
8	VSTDICC001	VSTDICC001	VN086001.D	18 Mar 2025 14:09		JC\MD	Ok,M
9	IBLK	IBLK	VN086002.D	18 Mar 2025 14:34		JC\MD	Ok
10	VSTDICV050	ICVVN031825	VN086003.D	18 Mar 2025 16:49	ICV Failed for comp. #39,52,58,68,69,70,78,80,84,85, 86,89 For DOD	JC\MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN032825

Review By	John Carlone	Review On	3/31/2025 9:53:34 AM
Supervise By	Mahesh Dadoda	Supervise On	3/31/2025 9:56:37 AM
SubDirectory	VN032825	HP Acquire Method	HP Processing Method 82N031825W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP133515		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP133516,VP133517		

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN086139.D	28 Mar 2025 10:11		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN086140.D	28 Mar 2025 10:44	pH#Lot#V12668	JC\MD	Ok,M
3	VN0328MBL01	VN0328MBL01	VN086141.D	28 Mar 2025 11:19		JC\MD	Ok
4	VN0328WBL01	VN0328WBL01	VN086142.D	28 Mar 2025 11:43		JC\MD	Ok
5	VN0328WBS01	VN0328WBS01	VN086143.D	28 Mar 2025 12:07		JC\MD	Ok,M
6	VN0328WBSD01	VN0328WBSD01	VN086144.D	28 Mar 2025 12:41		JC\MD	Ok,M
7	Q1648-02	TP-4	VN086145.D	28 Mar 2025 13:05	vial A pH#5.0	JC\MD	Ok
8	Q1648-04	TP-5	VN086146.D	28 Mar 2025 13:29	vial A pH#5.0	JC\MD	Ok
9	Q1648-06	TP-3	VN086147.D	28 Mar 2025 13:53	vial A pH#5.0	JC\MD	Ok
10	Q1648-08	TP-6	VN086148.D	28 Mar 2025 14:18	vial A pH#5.0	JC\MD	Ok
11	Q1648-10	TP-7	VN086149.D	28 Mar 2025 14:42	vial A pH#5.0	JC\MD	Ok
12	Q1648-12	TP-8	VN086150.D	28 Mar 2025 15:06	vial A pH#5.0	JC\MD	Ok
13	Q1648-14	TP-2	VN086151.D	28 Mar 2025 15:30	vial A pH#5.0	JC\MD	Ok
14	Q1661-02	351	VN086152.D	28 Mar 2025 15:54		JC\MD	Ok
15	Q1664-08	P001-BBDGA-001-02	VN086153.D	28 Mar 2025 16:18	vial A pH#6.0	JC\MD	Ok
16	Q1664-10	P001-BBDGA-002-01	VN086154.D	28 Mar 2025 16:42	vial A pH#6.0	JC\MD	Ok
17	Q1664-12	P001-BBDGA-003-01	VN086155.D	28 Mar 2025 17:06	vial A pH#6.0	JC\MD	Ok
18	Q1664-14	P001-BBDGA-004-01	VN086156.D	28 Mar 2025 17:30	vial A pH#6.0	JC\MD	Ok

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN032825

Review By	John Carlone	Review On	3/31/2025 9:53:34 AM
Supervise By	Maresh Dadoda	Supervise On	3/31/2025 9:56:37 AM
SubDirectory	VN032825	HP Acquire Method	HP Processing Method 82N031825W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP133515		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP133516,VP133517		

19	Q1664-16	P001-BBDGA-005-01	VN086157.D	28 Mar 2025 17:54	vial A pH#6.0	JC\MD	Ok
20	Q1664-18	P001-BBDGA-006-01	VN086158.D	28 Mar 2025 18:18	vial A pH#6.0	JC\MD	Ok
21	Q1664-20	P001-BBDGA-007-01	VN086159.D	28 Mar 2025 18:42	vial A pH#6.0	JC\MD	Ok
22	Q1664-22	P001-BBDGA-008-01	VN086160.D	28 Mar 2025 19:06	vial A pH#6.0	JC\MD	Ok
23	Q1666-01	TW-WTS-05	VN086161.D	28 Mar 2025 19:30	vial A pH<2	JC\MD	Ok
24	Q1664-04	P001-BBDGA-001-01	VN086162.D	28 Mar 2025 19:54	vial A pH#6.0	JC\MD	Ok
25	Q1664-05MS	P001-BBDGA-001-01M	VN086163.D	28 Mar 2025 20:18	vial A pH#6.0	JC\MD	Ok,M
26	Q1664-06MSD	P001-BBDGA-001-01M	VN086164.D	28 Mar 2025 20:42	vial A pH#6.0	JC\MD	Ok,M
27	VN0328MBS01	VN0328MBS01	VN086165.D	28 Mar 2025 21:06		JC\MD	Ok,M
28	VSTDCCC050	VSTDCCC050EC	VN086166.D	28 Mar 2025 21:30		JC\MD	Ok,M

M : Manual Integration

SOP ID : M1312-SPLP-10
 SDG No : N/A
 Weigh By : JP
 Balance ID : WC SC-7
 pH Meter ID : WC PH METER-1
 Extraction By : JP
 Filter By : JP
 Pippete ID : WC
 Tumbler ID : ZHE-1
 TCLP Filter ID : 50223706

Start Prep Date : 03/27/2025 Time : 15:30
 End Prep Date : 03/28/2025 Time : 09:45
 Combination Ratio : 20
 ZHE Cleaning Batch : 1A
 Initial Room Temperature: 23 °C
 Final Room Temperature: 22 °C
 TCLP Technician Signature : [Signature]
 Supervisor By : 12

Standard Name	MLS USED	STD REF. # FROM LOG
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE U	Lot Number
DI WATER	N/A	W3112
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
40ml VOA Vials	23237	N/A

Extraction Conformance/Non-Conformance Comments:

ALL ZHE SAMPLES ARE EXTRACTED AND GIVEN AS VIAL A & B. Leak checked after 10 mintues of tumbling.
 TUMBLER ZHE-1 checked,30 rpm.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
03/28/25 11:30	[Signature] HCC-AHOCM	P.S 100C LAB
	Preparation Group	Analysis Group

SPLP EXTRACTION LOGPAGE

PB167360

Sample ID	ClientID	ZHE Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
PB167360TB	LEB360	20	N/A	500	N/A	N/A	N/A	5.05	N/A	ZHE-1
Q1664-04	P001-BBDGA-001-01	11	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1664-05	Q1664-04MS	11	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1664-06	Q1664-04MSD	11	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1664-08	P001-BBDGA-001-02	12	25.01	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1664-10	P001-BBDGA-002-01	13	25.04	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1664-12	P001-BBDGA-003-01	14	25.05	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1664-14	P001-BBDGA-004-01	15	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1664-16	P001-BBDGA-005-01	16	25.04	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1664-18	P001-BBDGA-006-01	17	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1664-20	P001-BBDGA-007-01	18	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1664-22	P001-BBDGA-008-01	19	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-1

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
PB167360TB	LEB360	N/A	N/A	N/A	N/A	N/A	N/A
Q1664-04	P001-BBDGA-001-01	N/A	N/A	N/A	N/A	100	N/A
Q1664-05	Q1664-04MS	N/A	N/A	N/A	N/A	100	N/A
Q1664-06	Q1664-04MSD	N/A	N/A	N/A	N/A	100	N/A
Q1664-08	P001-BBDGA-001-02	N/A	N/A	N/A	N/A	100	N/A
Q1664-10	P001-BBDGA-002-01	N/A	N/A	N/A	N/A	100	N/A
Q1664-12	P001-BBDGA-003-01	N/A	N/A	N/A	N/A	100	N/A
Q1664-14	P001-BBDGA-004-01	N/A	N/A	N/A	N/A	100	N/A
Q1664-16	P001-BBDGA-005-01	N/A	N/A	N/A	N/A	100	N/A
Q1664-18	P001-BBDGA-006-01	N/A	N/A	N/A	N/A	100	N/A
Q1664-20	P001-BBDGA-007-01	N/A	N/A	N/A	N/A	100	N/A
Q1664-22	P001-BBDGA-008-01	N/A	N/A	N/A	N/A	100	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : splp zhe q1664

WorkList ID : 188600

Department : TCLP Extraction

Date : 03-27-2025 13:03:18

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1664-04	P001-BBDGA-001-01	Solid	SPLP ZHE Ext	Cool 4 deg C	ROYF02	I31	03/26/2025	1312
Q1664-05	Q1664-04MS	Solid	SPLP ZHE Ext	Cool 4 deg C	ROYF02	I31	03/26/2025	1312
Q1664-06	Q1664-04MSD	Solid	SPLP ZHE Ext	Cool 4 deg C	ROYF02	I31	03/26/2025	1312
Q1664-08	P001-BBDGA-001-02	Solid	SPLP ZHE Ext	Cool 4 deg C	ROYF02	I31	03/26/2025	1312
Q1664-10	P001-BBDGA-002-01	Solid	SPLP ZHE Ext	Cool 4 deg C	ROYF02	I31	03/26/2025	1312
Q1664-12	P001-BBDGA-003-01	Solid	SPLP ZHE Ext	Cool 4 deg C	ROYF02	I31	03/26/2025	1312
Q1664-14	P001-BBDGA-004-01	Solid	SPLP ZHE Ext	Cool 4 deg C	ROYF02	I31	03/26/2025	1312
Q1664-16	P001-BBDGA-005-01	Solid	SPLP ZHE Ext	Cool 4 deg C	ROYF02	I31	03/26/2025	1312
Q1664-18	P001-BBDGA-006-01	Solid	SPLP ZHE Ext	Cool 4 deg C	ROYF02	I31	03/26/2025	1312
Q1664-20	P001-BBDGA-007-01	Solid	SPLP ZHE Ext	Cool 4 deg C	ROYF02	I31	03/26/2025	1312
Q1664-22	P001-BBDGA-008-01	Solid	SPLP ZHE Ext	Cool 4 deg C	ROYF02	I31	03/26/2025	1312

Date/Time

03/27/25 13:40

Raw Sample Received by:

JO WOC

Raw Sample Relinquished by:

QJ SM

Date/Time

03/27/25 16:00

Raw Sample Received by:

QJ SM

Raw Sample Relinquished by:

JO WOC

Prep Standard - Chemical Standard Summary

Order ID : Q1664

Test : SPLP VOA

Prepbatch ID :

Sequence ID/Qc Batch ID: VN032825,

Standard ID :

VP131746,VP131767,VP132035,VP132096,VP133174,VP133178,VP133342,VP133515,VP133516,VP133517,

Chemical ID :

V13391,V13457,V13460,V13465,V13466,V13706,V14154,V14175,V14176,V14289,V14433,V14439,V14521,V14522,V14613,V14614,V14630,V14631,V14632,V14633,V14722,V14723,V14724,V14744,V14754,V14809,V14814,V14842,V14883,V14896,V14897,V14898,V14899,W3112,

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
247	8260 Internal Standard, 250PPM	VP131746	11/22/2024	05/18/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								11/23/2024

FROM 0.50000ml of V14289 + 49.50000ml of V14154 = Final Quantity: 50.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
218	BFB, 25PPM	VP131767	11/22/2024	05/18/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								11/27/2024

FROM 0.50000ml of V13391 + 49.50000ml of V14154 = Final Quantity: 50.000 ml

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1810	8260 Working Std(2-CVE)-800ppm	VP132035	12/10/2024	06/10/2025	Semsettin Yesilyurt	None	None	Maresh 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

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
719	8260 Working STD (BCM)-First source, 400PPM	VP132096	12/12/2024	06/10/2025	Semsettin Yesilyurt	None	None	Maresh 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

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
617	8260 Surrogate, 400PPM	VP133174	02/27/2025	08/27/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								03/04/2025

FROM 0.40000ml of V13706 + 24.60000ml of V14613 = Final Quantity: 25.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
257	8260 Calibration Working STD Mix-First source, 160PPM	VP133178	02/27/2025	03/31/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								03/04/2025

FROM 0.40000ml of V14842 + 1.00000ml of V14175 + 1.00000ml of V14176 + 1.00000ml of V14433 + 1.00000ml of V14439 + 1.00000ml of V14521 + 1.00000ml of V14522 + 1.00000ml of V14724 + 1.00000ml of V14744 + 1.00000ml of V14754 + 1.00000ml of V14809 + 1.00000ml of V14814 + 1.50000ml of V14722 + 1.50000ml of V14723 + 10.60000ml of V14613 = Final Quantity: 25.000 ml

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
51	8260 Working STD (Acrolein) -first source, 800PPM	VP133342	03/18/2025	04/17/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								03/20/2025

FROM 1.00000ml of V14896 + 1.00000ml of V14897 + 1.00000ml of V14898 + 1.00000ml of V14899 + 21.00000ml of V14883 = Final Quantity: 25.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
589	BFB TUNE CHECK	VP133515	03/28/2025	03/29/2025	John Carlone	None	None	Maresh Dadoda
								03/31/2025

FROM 39.98400ml of W3112 + 0.01600ml of VP131767 = Final Quantity: 40.000 ml

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
620	50 PPB CCC, 8260-Water	VP133516	03/28/2025	03/29/2025	John Carlone	None	None	Maresh Dadoda
FROM 39.94450ml of W3112 + 0.00500ml of VP132096 + 0.00500ml of VP133174 + 0.00800ml of VP131746 + 0.01250ml of VP132035 + 0.01250ml of VP133178 + 0.01250ml of VP133342 = Final Quantity: 40.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
620	50 PPB CCC, 8260-Water	VP133517	03/28/2025	03/29/2025	John Carlone	None	None	Maresh Dadoda
FROM 39.94450ml of W3112 + 0.00500ml of VP132096 + 0.00500ml of VP133174 + 0.00800ml of VP131746 + 0.01250ml of VP132035 + 0.01250ml of VP133178 + 0.01250ml of VP133342 = Final Quantity: 40.000 ml								

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30067 / BFB tuneing solution	A0191805	11/22/2025	11/22/2024 / SAM	01/13/2023 / SAM	V13391

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0193071	06/12/2025	12/12/2024 / SAM	01/27/2023 / SAM	V13457

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0193071	06/12/2025	12/12/2024 / SAM	01/27/2023 / SAM	V13460

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0193071	06/12/2025	12/12/2024 / SAM	01/27/2023 / SAM	V13465

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0193071	06/12/2025	12/12/2024 / SAM	01/27/2023 / SAM	V13466

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555582 / Custom Mixture, 8260 A/B Surrogate Mix [CS 5179-2]	A0196865	02/27/2026	02/27/2025 / SAM	04/12/2023 / SAM	V13706

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	05/18/2025	11/18/2024 / pedro	02/06/2024 / SAM	V14154

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	021624	07/10/2025	01/10/2025 / SAM	02/20/2024 / SAM	V14175

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	021624	07/10/2025	01/10/2025 / SAM	02/20/2024 / SAM	V14176

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555581 / Custom Standard, 8260 Internal Std [CS 5179-1]	A0210184	11/22/2025	11/22/2024 / SAM	04/15/2024 / SAM	V14289

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0209618	07/10/2025	01/10/2025 / SAM	08/15/2024 / SAM	V14433

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0209618	07/10/2025	01/10/2025 / SAM	08/15/2024 / SAM	V14439

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95319 / Revised Additions Mix (Min = 5)	091724	07/10/2025	01/10/2025 / SAM	09/18/2024 / SAM	V14521

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95319 / Revised Additions Mix (Min = 5)	091724	07/10/2025	01/10/2025 / SAM	09/18/2024 / SAM	V14522

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	08/27/2025	02/27/2025 / SAM	11/26/2024 / SAM	V14613

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	06/10/2025	12/10/2024 / SAM	11/26/2024 / SAM	V14614

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14630

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14631

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14632

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14633

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A02110618	07/10/2025	01/10/2025 / SAM	12/17/2024 / SAM	V14722

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A02110618	07/10/2025	01/10/2025 / SAM	12/17/2024 / SAM	V14723

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A02110618	07/10/2025	01/10/2025 / SAM	12/17/2024 / SAM	V14724

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix, 500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml	A0216826	08/27/2025	02/27/2025 / SAM	12/17/2024 / SAM	V14744

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml	A0216826	05/31/2031	01/10/2025 / SAM	12/17/2024 / SAM	V14754

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE	A0220471	07/10/2025	01/10/2025 / SAM	01/08/2025 / SAM	V14809

LOTS

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE	A0220471	07/10/2025	01/10/2025 / SAM	01/08/2025 / SAM	V14814

LOTS

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30470 / VOA Stock Solution, tert-butanol std, 1mL, P&TM	A0217535	08/27/2025	02/27/2025 / SAM	01/21/2025 / SAM	V14842

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	10/25/2025	02/19/2025 / Jaswal	04/22/2024 / Jaswal	V14883

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	031725	04/17/2025	03/18/2025 / SAM	03/18/2025 / SAM	V14896

CHEMICAL RECEIPT LOG BOOK

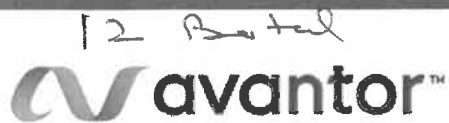
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	031725	04/17/2025	03/18/2025 / SAM	03/18/2025 / SAM	V14897

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	031725	04/17/2025	03/18/2025 / SAM	03/18/2025 / SAM	V14898

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	031725	04/17/2025	03/18/2025 / SAM	03/18/2025 / SAM	V14899

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / lwona	07/03/2024 / lwona	W3112

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



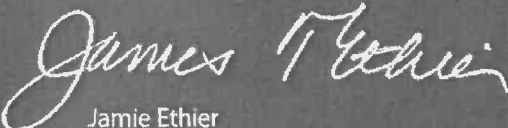
Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

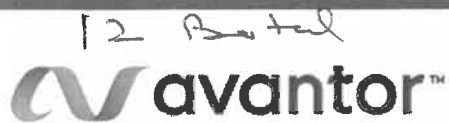
Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titration Acid (μeq/g)	≤ 0.3	0.2
Titration Base (μeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC


Jamie Ethier
Vice President Global Quality

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



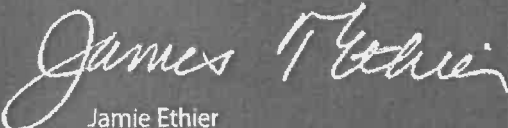
Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
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Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titration Acid (μeq/g)	≤ 0.3	0.2
Titration Base (μeq/g)	≤ 0.10	0.03
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Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC


Jamie Ethier
Vice President Global Quality



CERTIFIED WEIGHT REPORT

Part Number: **95317**
Lot Number: **021624**
Description: **Universal VOA Megamix**
69 components
Expiration Date: 021627
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 8UTB

Solvent(s): **Methanol**
Lot# **EG359-USQ12**

<i>Prashant Chauhan</i>		021624
Formulated By:	Prashant Chauhan	DATE
<i>Pedro L. Rentes</i>		021624
Reviewed By:	Pedro L. Rentes	DATE

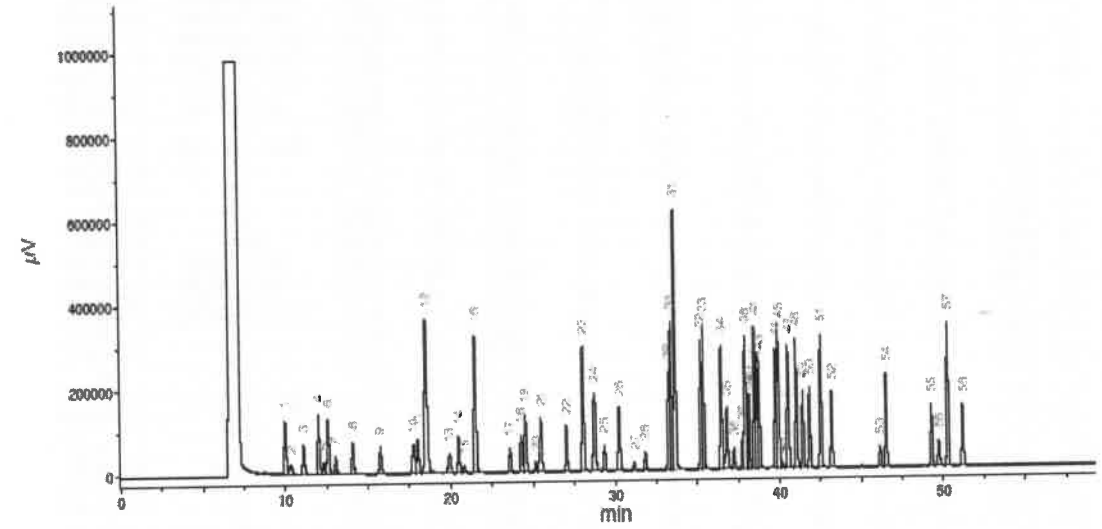
Weight(s) shown below were combined and diluted to (mL): **100.0** **0.021** Balance Uncertainty
Flask Uncertainty

Compound	(RM#)	Lot	Di.	Initial	Initial	Nominal	Purity	Purity	Uncertainty	Target	Actual	Actual	Expanded	SDS Information		
	Part Number	Number	Factor	Vol. (mL)	Conc. (µg/mL)	Conc. (µg/mL)	(%)	Uncertainty	Pipette (mL)	Weight(g)	Weight(g)	Conc (µg/mL)	(+/-) (µg/mL)	CAS#	OSHA PEL (TWA)	LD50
1. Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	8.1	75-05-8	40 ppm (70mg/m3/8H)	or-rat 2400mg/kg
2. Allyl chloride (3-Chloropropene)	(0325)	102395	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	107-05-1	1 ppm (3mg/m3/8H)	or-rat 700mg/kg
3. Carbon disulfide	(0060)	MKCR8561	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20023	2001.6	8.1	75-15-0	4 ppm (12mg/m3) (skin)	or-rat 1200mg/kg
4. cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21058	0.21069	2001.1	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)	IK18CA5000K	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	60-29-7	N/A	N/A
7. Ethyl methacrylate	(0381)	06126PK	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	97-63-2	N/A	N/A
8. Iodomethane	(0489)	5HBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20121	2001.5	8.2	74-88-4	5 ppm (28mg/m3/8H) (skin)	or-rat 14800mg/kg
9. 2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20120	2001.4	8.1	78-83-1	50 ppm (150mg/m3/8H)	or-rat 70mg/kg
10. Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	126-98-7	1 ppm (3mg/m3/8H) (skin)	or-rat 1200mg/kg
11. Methyl acrylate	(1075)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	96-33-3	10 ppm (35mg/m3/8H) (skin)	or-rat 277mg/kg
12. Methyl methacrylate	(0404)	MKBW5137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20041	2001.6	8.1	80-62-6	100 ppm (410mg/m3/8H)	or-rat 7872mg/kg
13. Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20220	2001.3	8.2	98-95-3	1 ppm (5mg/m3/8H) (skin)	or-rat 780mg/kg
14. 2-Nitropropane	(0481)	14002JK	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	79-46-9	10 ppm (35mg/m3/8H)	or-rat 720mg/kg
15. Perfluorooctane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.6	8.3	76-01-7	N/A	N/A
16. 1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20225	2001.8	8.2	76-13-1	1000 ppm (7800mg/m3/8H)	or-rat 43g/kg
17. Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	N/A	or-rat 916mg/kg
18. Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	N/A	or-rat 840mg/kg
19. cis-1,2-Dichloroethane	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	156-59-2	N/A	N/A
20. trans-1,2-Dichloroethane	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	156-60-5	N/A	or-rat 1235mg/kg
21. Methylene chloride	35171	101623	0.05	5.00	40002.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-09-2	500 ppm	or-rat 820mg/kg
22. 1,1-Dichloroethene	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.6	22.9	75-35-4	1 ppm (4mg/m3/8H)	or-rat 200mg/kg
23. Bromoform	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	or-rat 930mg/kg
24. Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.6mg/m3/8H)	or-rat 2350mg/kg
25. Chloroform	95321	020724	0.10	10.00	20024.0	2000	NA	NA	0.042	NA	NA	2001.9	20.5	67-66-3	50 ppm (240mg/m3) (CL)	or-rat 900mg/kg
26. Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-85-3	N/A	or-rat 105mg/kg
27. 1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	N/A	or-rat 108mg/kg
28. 2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	100 ppm	or-rat 725mg/kg
29. Tetrachloroethane	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	1999.8	20.4	584-20-7	N/A	N/A
30. 1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	2019.6	20.8	127-18-4	25 ppm (170mg/m3/8H) (final)	or-rat 2629mg/kg
31. 1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40016.5	2000	NA	NA	0.017	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	or-rat 10300mg/kg
32. 1,2-Dibromomethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-6	0.001 ppm	or-rat 170mg/kg
33. 1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	106-93-4	20 ppm (8H)	or-rat 108mg/kg
34. 1,2-Dichloropropane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2002.0	22.9	107-06-2	50 ppm (8H)	or-rat 870mg/kg
35. 1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	78-57-5	75 ppm (350mg/m3/8H)	or-rat 1947mg/kg
36. 1,1-Dichloropropene	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	N/A	un-rat 3600mg/kg
37. cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.1	22.9	563-56-6	N/A	N/A
38. trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.8	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-01-5	N/A	N/A
39. Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	22.9	87-68-3	0.02 ppm (0.24mg/m3/8H)	or-rat 82mg/kg
40. 1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.1	22.9	630-20-6	N/A	or-rat 670mg/kg
41. 1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/8H) (skin)	or-rat 800mg/kg
42. 1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (46mg/m3/8H) (skin)	or-rat 836mg/kg
43. Trichloroethene	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	50 ppm (270mg/m3/8H)	or-rat 2400mg/kg
44. 1,2,3-Trichloropropane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	96-18-4	10 ppm (50mg/m3/8H)	or-rat 149.6mg/kg
45. Benzene	35162	050823	0.05	5.00	40005.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	or-rat 4694mg/kg
46. Bromobenzene	35162	050823	0.05	5.00	40006.9	2000	NA	NA	0.017	NA	NA	1999.7	22.9	104-51-8	N/A	N/A
47. n-Butyl benzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8H)	or-rat >2000mg/kg
48. Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	99-87-6	N/A	or-rat 4750mg/kg
49. p-Isopropyl toluene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8H)	or-rat 4900mg/kg
50. Naphthalene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-42-5	100 ppm	or-rat 5000mg/kg
51. Styrene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-98-3	200 ppm	or-rat 5000mg/kg
52. Toluene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-61-6	N/A	or-rat 1390mg/kg
53. 1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	120-82-1	5 ppm (CL) (40mg/m3)	or-rat 750mg/kg
54. 1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.8	23.0	95-63-6	N/A	or-rat 5g/kg
55. 1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.6	2000	NA	NA	0.017	NA	NA	1999.8	22.9	106-57-8	N/A	or-rat 5000mg/kg
56. 1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-38-3	100 ppm (435mg/m3/8H)	or-rat 5g/kg
57. m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	98-06-6	N/A	N/A
58. tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.6	22.9	135-98-8	N/A	or-rat 2240mg/kg
59. sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	22.9	108-90-7	75 ppm (350mg/m3/8H)	or-rat 2290mg/kg
60. Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	95-49-8	50 ppm (250mg/m3/8H)	or-rat 3900mg/kg
61. 2-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	N/A	or-rat 2100mg/kg
62. 4-Chlorotoluene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-50-1	50 ppm (300mg/m3) (CL)	or-rat 500mg/kg
63. 1,2-Dichlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.6	23.0	541-73-1	N/A	or-rat 1063mg/kg
64. 1,3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA						

Run 16, "P95317 L021624 [2000µg/mL in MeOH]"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 8:56:46 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments
GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydrogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3



Peak #	Name	FID RT (min.)
1	Ether	9.97
2	1,1,2-Trichloro-1,2,2-trifluoroethane	10.33
3	1,1-Dichloroethane	11.10
4	Acetonitrile	12.00
5	Iodomethane	12.31
6	Allyl chloride	12.56
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethane	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.24
11	cis-1,2-Dichloroethane	18.00
12	Methacrylonitrile/methyl acrylate/Chloroform	18.46
13	Isobutane/1,1,1-Trichloroethane	19.01
14	1,1-Dichloropropane	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.49
17	Trichloroethane	23.58
18	1,2-Dichloropropane	24.38
19	Methyl methacrylate	24.52
20	Bromochloromethane	25.13
21	Dibromomethane/2-Hydropropane	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-Dichloropropene	30.24
27	Dibromochloromethane	31.16
28	1,2-Dibromomethane	31.84
29	Chlorobenzene	33.26
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.40
31	m-Xylene/p-Xylene	33.66
32	o-Xylene	35.22
33	Styrene	35.39
34	Isopropylbenzene/Bromoforn	36.18
35	cis-1,4-Dichloro-3-butene	36.80
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropene	37.77
38	n-Propylbenzene	37.93
39	trans-1,4-Dichloro-3-butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.80
42	2-Chlorotoluene	38.82
43	4-Chlorotoluene	38.77
44	tert-Butylbenzene	39.74
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropyltoluene	41.02
49	1,3-Dichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.83
51	n-Butylbenzene	42.53
52	1,2-Dichlorobenzene	43.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.46
55	1,2,4-Trichlorobenzene	49.26
56	Hexachlorobutadiene	49.72
57	Naphthalene	50.26
58	1,2,3-Trichlorobenzene	51.16

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	1-352-323-3500
		Date Prepared/Revised	January 1, 2023

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	Highly Flammable Liquid and Vapor	H301, 311, 331	Toxic if swallowed, skin contact, inhaled
H370	Cause damage to organs	H351	Suspected of causing cancer
P271	Use in ventilated area	P280	Use gloves, eye protection/face shield
P302,332	If on skin, wash with soap and water	P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Storage Conditions	Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1 TWA 200 ppm
Skin notation	TWA 200 ppm
Potential for skin absorption, ingestion and inhalation.	
Personal protective equipment	Respiratory protection. Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.	

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

CERTIFIED WEIGHT REPORT

Part Number: **95317**
Lot Number: **021624**
Description: **Universal VOA Megamix**
69 components
Expiration Date: 021627
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 8UTB

Solvent(s): **Methanol**
Lot# **EG359-USQ12**

		021624
Formulated By:	Prashant Chauhan	DATE
		021624
Reviewed By:	Pedro L. Rentes	DATE

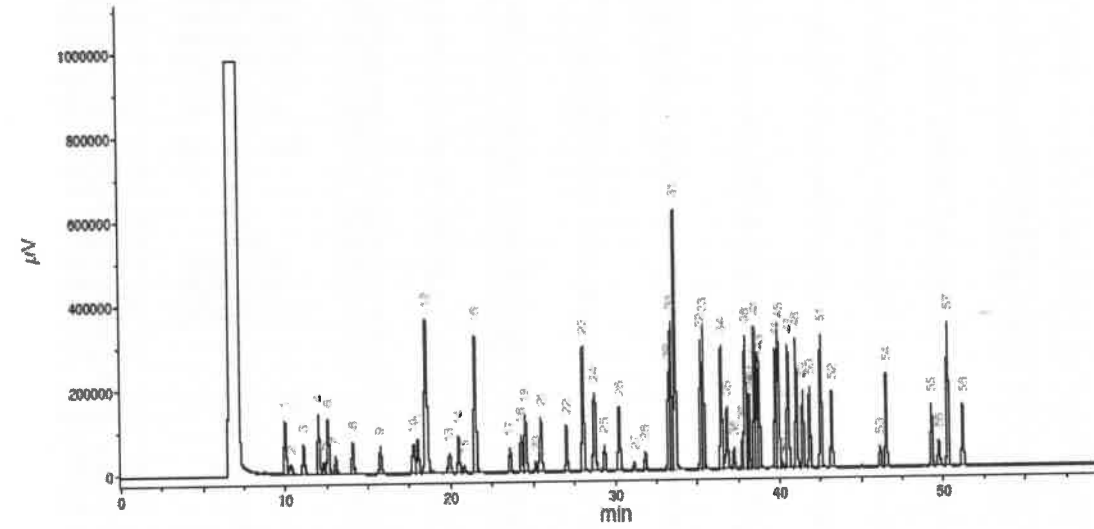
Weight(s) shown below were combined and diluted to (mL): **100.0** **0.021** Balance Uncertainty
Flask Uncertainty

Compound	(RM#)	Lot	Di.	Initial	Initial	Nominal	Purity	Purity	Uncertainty	Target	Actual	Actual	Expanded	SDS Information		
	Part Number	Number	Factor	Vol. (mL)	Conc. (µg/mL)	Conc. (µg/mL)	(%)	Uncertainty	Pipette (mL)	Weight(g)	Weight(g)	Conc (µg/mL)	(+/-) (µg/mL)	CAS#	OSHA PEL (TWA)	LD50
1. Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	8.1	75-05-8	40 ppm (70mg/m3/8H)	or-rat 2400mg/kg
2. Allyl chloride (3-Chloropropene)	(0325)	102395	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	107-05-1	1 ppm (3mg/m3/8H)	or-rat 700mg/kg
3. Carbon disulfide	(0060)	MKCR8561	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20023	2001.6	8.1	75-15-0	4 ppm (12mg/m3) (skin)	or-rat 1200mg/kg
4. cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21058	0.21069	2001.1	6.5	1476-11-5	N/A	N/A
5. trans-1,4-Dichloro-2-butene	(0486)	MKBP6041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20748	2001.7	8.4	110-57-6	N/A	N/A
6. Diethyl ether	(0153)	IK18CA5000K	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	60-29-7	N/A	N/A
7. Ethyl methacrylate	(0381)	06126PK	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	97-63-2	N/A	or-rat 14800mg/kg
8. Iodomethane	(0489)	5HBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20121	2001.5	8.2	74-88-4	5 ppm (28mg/m3/8H) (skin)	or-rat 70mg/kg
9. 2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20120	2001.4	8.1	78-83-1	50 ppm (150mg/m3/8H)	or-rat 3480mg/kg
10. Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	126-98-7	1 ppm (3mg/m3/8H) (skin)	or-rat 1200mg/kg
11. Methyl acrylate	(1075)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	96-33-3	10 ppm (35mg/m3/8H) (skin)	or-rat 277mg/kg
12. Methyl methacrylate	(0404)	MKBW5137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20041	2001.6	8.1	80-62-6	100 ppm (410mg/m3/8H)	or-rat 7872mg/kg
13. Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20220	2001.3	8.2	98-95-3	1 ppm (5mg/m3/8H) (skin)	or-rat 700mg/kg
14. 2-Nitropropane	(0461)	14002JX	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	79-46-9	10 ppm (35mg/m3/8H)	or-rat 720mg/kg
15. Perfluorooctane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.6	8.3	76-01-7	N/A	N/A
16. 1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20225	2001.8	8.2	76-13-1	1000 ppm (7800mg/m3/8H)	or-rat 43g/kg
17. Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	N/A	or-rat 916mg/kg
18. Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	N/A	or-rat 840mg/kg
19. cis-1,2-Dichloroethane	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	156-59-2	N/A	N/A
20. trans-1,2-Dichloroethane	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	156-60-5	N/A	or-rat 1235mg/kg
21. Methylene chloride	35171	101623	0.05	5.00	40002.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-09-2	500 ppm	or-rat 820mg/kg
22. 1,1-Dichloroethene	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.8	20.4	75-35-4	1 ppm (4mg/m3/8H)	or-rat 200mg/kg
23. Bromoform	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	or-rat 930mg/kg
24. Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.6mg/m3/8H)	or-rat 2350mg/kg
25. Chloroform	95321	020724	0.10	10.00	20024.0	2000	NA	NA	0.042	NA	NA	2001.9	20.5	67-68-3	50 ppm (240mg/m3) (CL)	or-rat 900mg/kg
26. Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-95-3	N/A	or-rat 105mg/kg
27. 1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	N/A	or-rat 108mg/kg
28. 2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	100 ppm	or-rat 725mg/kg
29. Tetrafluoroethane	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	1999.8	20.4	584-20-7	N/A	N/A
30. 1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	2019.6	20.8	127-18-4	25 ppm (170mg/m3/8H) (final)	or-rat 2629mg/kg
31. 1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40016.5	2000	NA	NA	0.017	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	or-rat 10300mg/kg
32. 1,2-Dibromomethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-6	0.001 ppm	or-rat 170mg/kg
33. 1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.7	22.9	106-93-4	20 ppm (8H)	or-rat 108mg/kg
34. 1,2-Dichloropropane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	107-08-2	50 ppm (8H)	or-rat 870mg/kg
35. 1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	2000.2	22.9	78-57-5	75 ppm (350mg/m3/8H)	or-rat 1947mg/kg
36. 1,1-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	N/A	un-rat 3600mg/kg
37. cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	29.7	563-56-6	N/A	N/A
38. trans-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
39. Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-02-6	N/A	N/A
40. 1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.6	29.7	87-68-3	0.02 ppm (0.24mg/m3/8H)	or-rat 62mg/kg
41. 1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	2000.1	22.9	630-20-6	N/A	or-rat 670mg/kg
42. 1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/8H) (skin)	or-rat 800mg/kg
43. Trichloroethene	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (46mg/m3/8H) (skin)	or-rat 636mg/kg
44. 1,2,3-Trichloropropane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	50 ppm (270mg/m3/8H)	or-rat 2400mg/kg
45. Benzene	35162	050823	0.05	5.00	40005.0	2000	NA	NA	0.017	NA	NA	1999.9	22.9	96-18-4	10 ppm (50mg/m3/8H)	or-rat 149.6mg/kg
46. Bromobenzene	35162	050823	0.05	5.00	40006.9	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	or-rat 4694mg/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	or-rat 2699mg/kg
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	N/A	N/A
49. p-Isopropyl toluene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8H)	or-rat >2000mg/kg
50. Naphthalene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	99-87-6	N/A	or-rat 4750mg/kg
51. Styrene	35162	050823	0.05	5.00	40004.6	2000	NA	NA	0.017	NA	NA	1999.7	22.9	91-20-3	10 ppm (50mg/m3/8H)	or-rat 490mg/kg
52. Toluene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-42-5	100 ppm	or-rat 5000mg/kg
53. 1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-98-3	200 ppm	or-rat 5000mg/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	87-61-6	N/A	or-rat 1390mg/kg
55. 1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.6	2000	NA	NA	0.017	NA	NA	1999.8	22.9	120-82-1	5 ppm (CL) (40mg/m3)	or-rat 750mg/kg
56. 1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	23.0	95-63-6	N/A	or-rat 5g/kg
57. m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	106-67-8	N/A	or-rat 5000mg/kg
58. tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	106-38-3	100 ppm (435mg/m3/8H)	or-rat 5g/kg
59. sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	22.9	98-06-6	N/A	N/A
60. Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	135-98-8	N/A	or-rat 2240mg/kg
61. 2-Chlorotoluene	35163	101923	0.05	5.00	40000.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-90-7	75 ppm (350mg/m3/8H)	or-rat 2290mg/kg
62. 4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.5	22.9	95-49-8	50 ppm (250mg/m3/8H)	or-rat 3900mg/kg
63. 1,2-Dichlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	N/A	or-rat 2100mg/kg
64. 1,3-Dichlorobenzene	35163	101923	0.05													

Run 16, "P95317 L021624 [2000µg/mL in MeOH]"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 8:56:46 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments
GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydrogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3



Peak #	Name	FID RT (min.)
1	Ether	9.97
2	1,1,2-Trichloro-1,2,2-trifluoroethane	10.33
3	1,1-Dichloroethane	11.10
4	Acetonitrile	12.00
5	Iodomethane	12.31
6	Allyl chloride	12.56
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethane	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.24
11	cis-1,2-Dichloroethane	18.00
12	Methacrylonitrile/methyl acrylate/Chloroform	18.48
13	Isobutane/1,1,1-Trichloroethane	19.01
14	1,1-Dichloropropane	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.48
17	Trichloroethane	23.58
18	1,2-Dichloropropane	24.38
19	Methyl methacrylate	24.52
20	Bromochloromethane	25.13
21	Dibromomethane/2-Hydropropane	25.46
22	cis-1,3-Dichloropropane	27.02
23	Toluene	28.05
24	Ethyl methacrylate/trans-1,3-Dichloropropane	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropane	30.24
27	Dibromochloromethane	31.16
28	1,2-Dibromomethane	31.84
29	Chlorobenzene	33.26
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.40
31	m-Xylene/p-Xylene	33.66
32	o-Xylene	35.22
33	Styrene	35.38
34	Isopropylbenzene/Bromoforn	36.18
35	cis-1,4-Dichloro-3-butene	36.48
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropane	37.77
38	n-Propylbenzene	37.93
39	trans-1,4-Dichloro-3-butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.80
42	2-Chlorotoluene	38.82
43	4-Chlorotoluene	38.77
44	tert-Butylbenzene	39.74
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropyltoluene	41.02
49	1,3-Dichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.83
51	n-Butylbenzene	42.53
52	1,2-Dichlorobenzene	43.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.46
55	1,2,4-Trichlorobenzene	49.26
56	Hexachlorobutadiene	49.72
57	Naphthalene	50.26
58	1,2,3-Trichlorobenzene	51.16

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	1-352-323-3500
		Date Prepared/Revised	January 1, 2023

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	Highly Flammable Liquid and Vapor	H301, 311, 331	Toxic if swallowed, skin contact, inhaled
H370	Cause damage to organs	H351	Suspected of causing cancer
P271	Use in ventilated area	P280	Use gloves, eye protection/face shield
P302,332	If on skin, wash with soap and water	P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Storage Conditions	Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1 TWA 200 ppm
Skin notation	TWA 200 ppm
Potential for skin absorption, ingestion and inhalation.	
Personal protective equipment	Respiratory protection. Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.	

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC. DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



222 03/18/24



CERTIFIED WEIGHT REPORT

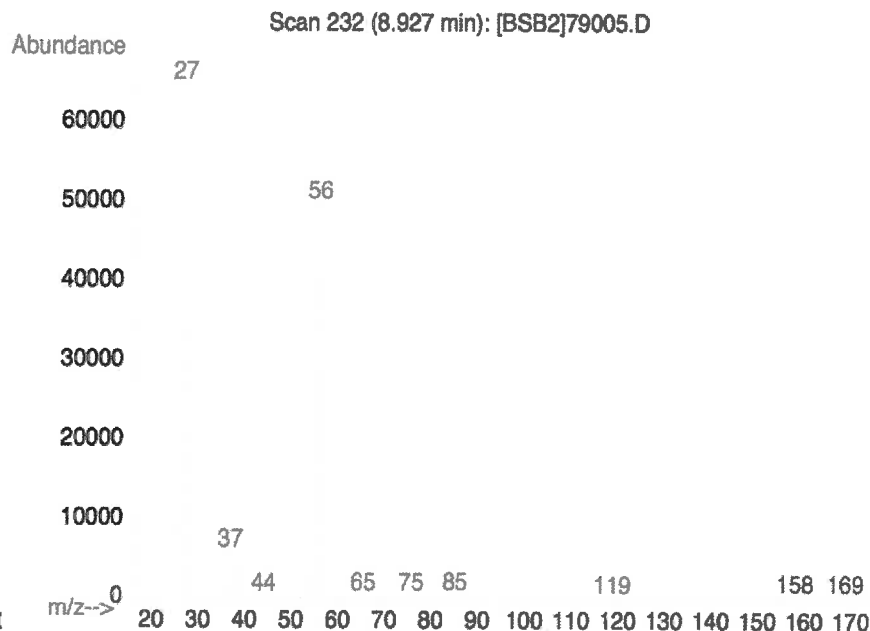
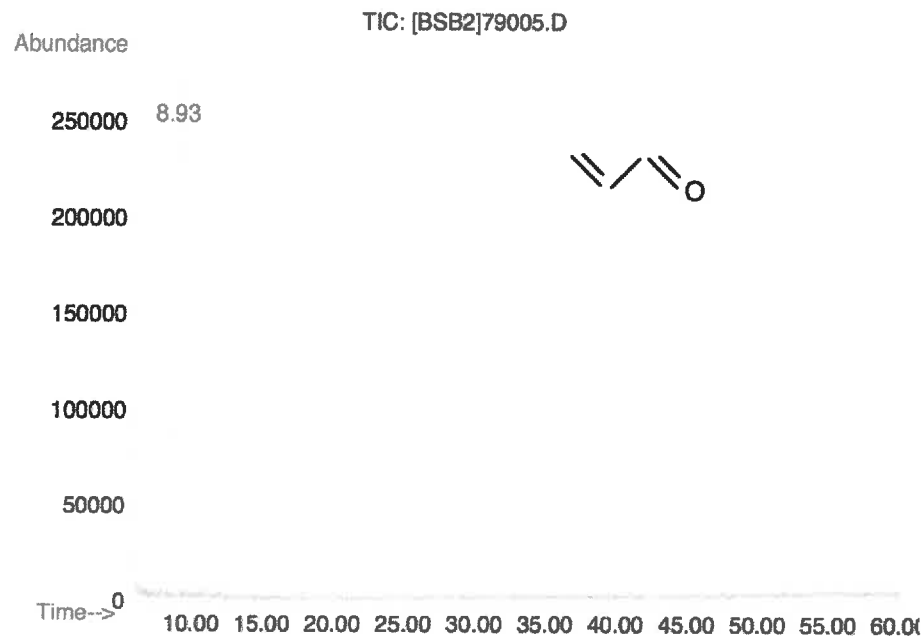
Part Number: 91980
Lot Number: 031725
Description: AcroleinSolvent(s): Water
Lot#: 072324QV14895 to
V14899Expiration Date: 041725
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Weight(s) shown below were combined and diluted to (mL): 10.0

		031725
Formulated By:	Lawrence Barry	DATE
		031725
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	SDS Information		
									Uncertainty (+/-) (µg/mL)	(Solvent Safety Info. On Attached pg.)	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05170	5004.1	52.5	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. Detector: Mass Selective Detector (Scan mode). Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Oven Profile: Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.)
Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas. NOTE: Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately.
Long term storage is not recommended. Please contact our technical department if further information is required.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN WATER

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	1-352-323-3500
		Date Prepared/Revised	January 1, 2025

Section II - Hazards Identification

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 shield
		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	

Vapor Density (AIR = 1)		NA	Evaporation rate (Butyl Acetate = 1)	0°C
Solubility in Water		Completely miscible		NA
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)	IATA
Not dangerous goods	Not dangerous goods
Proper shipping name: Water	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.



222 03/18/24



CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 031725
Description: AcroleinSolvent(s): Water
Lot#: 072324QV14895 to
V14899

		031725
Formulated By:	Lawrence Barry	DATE
		031725
Reviewed By:	Pedro L. Rentas	DATE

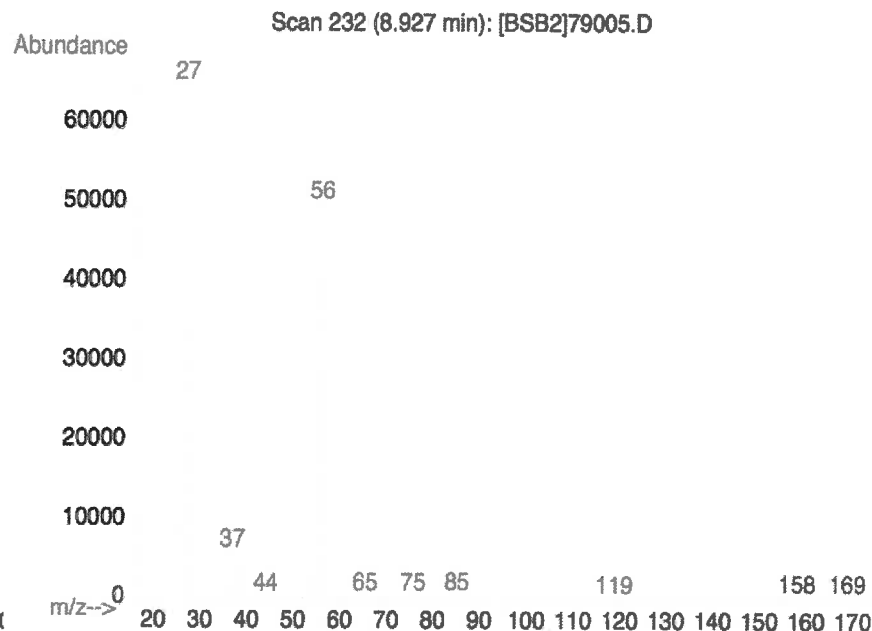
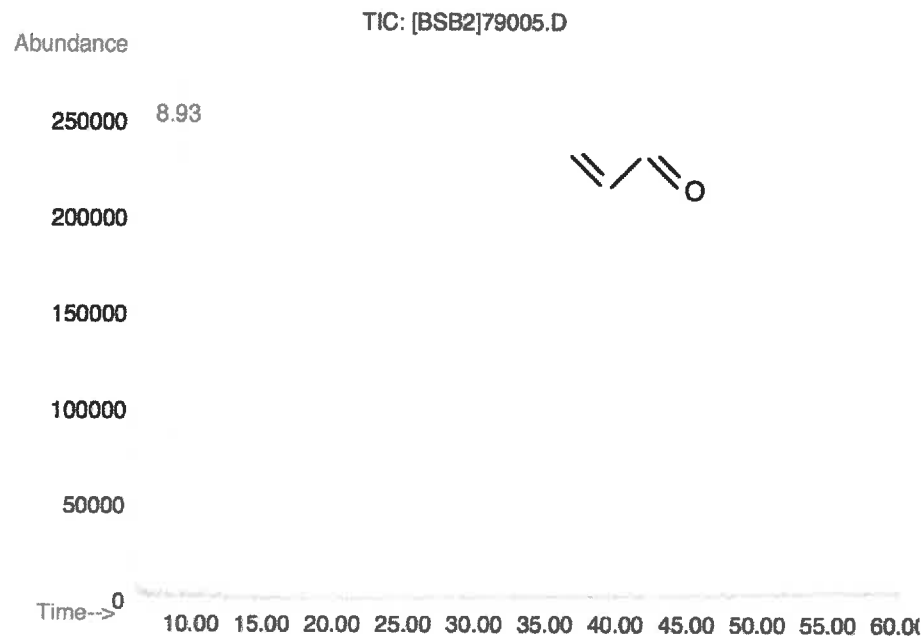
Expiration Date: 041725
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Weight(s) shown below were combined and diluted to (mL): 10.0

Expanded
Uncertainty
SDS Information
(Solvent Safety Info. On Attached pg.)
CAS# OSHA PEL (TWA) LD50

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05170	5004.1	52.5	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. Detector: Mass Selective Detector (Scan mode). Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Oven Profile: Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.)
Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas. NOTE: Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately
Long term storage is not recommended. Please contact our technical department if further information is required.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN WATER

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	1-352-323-3500
		Date Prepared/Revised	January 1, 2025

Section II - Hazards Identification

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 shield
		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	

Vapor Density (AIR = 1)		NA	Evaporation rate (Butyl Acetate = 1)	0°C
Solubility in Water		Completely miscible		NA
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)	IATA
Not dangerous goods	Not dangerous goods
Proper shipping name: Water	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.



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CERTIFIED WEIGHT REPORT

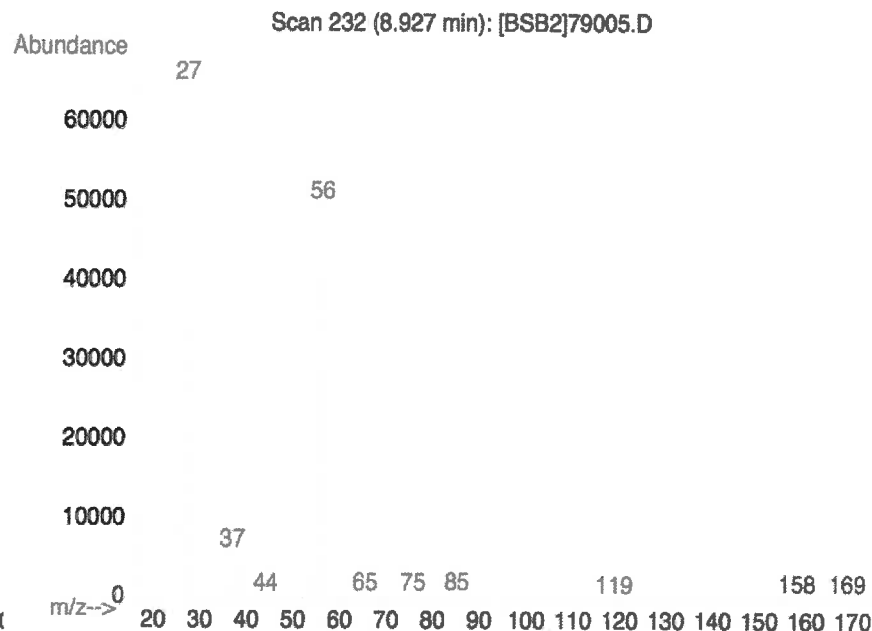
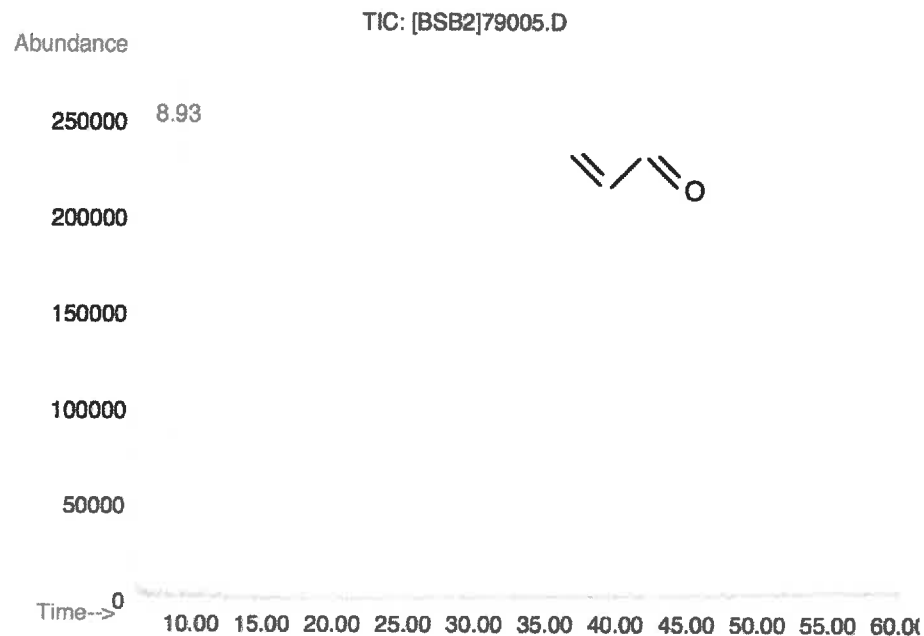
Part Number: 91980
Lot Number: 031725
Description: AcroleinSolvent(s): Water
Lot#: 072324QV14895 to
V14899Expiration Date: 041725
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Weight(s) shown below were combined and diluted to (mL): 10.0

		031725
Formulated By:	Lawrence Barry	DATE
		031725
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	SDS Information		
									Uncertainty (+/-) (µg/mL)	(Solvent Safety Info. On Attached pg.)	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05170	5004.1	52.5	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. Detector: Mass Selective Detector (Scan mode). Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Oven Profile: Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.)
Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas. NOTE: Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately.
Long term storage is not recommended. Please contact our technical department if further information is required.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN WATER

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	1-352-323-3500
		Date Prepared/Revised	January 1, 2025

Section II - Hazards Identification

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 shield
		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	

Vapor Density (AIR = 1)		NA	Evaporation rate (Butyl Acetate = 1)	0°C
Solubility in Water		Completely miscible		NA
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)	IATA
Not dangerous goods	Not dangerous goods
Proper shipping name: Water	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.



222 03/18/24



CERTIFIED WEIGHT REPORT

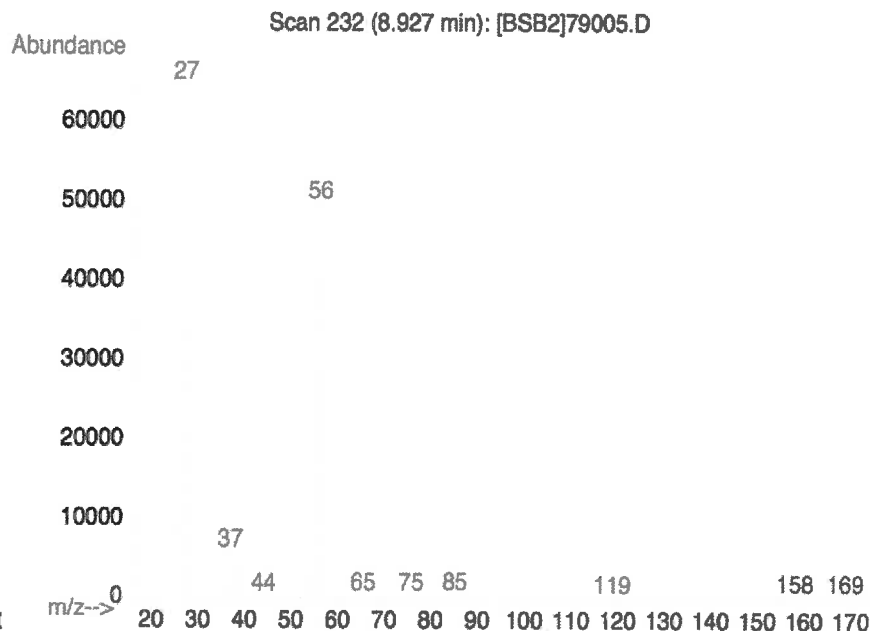
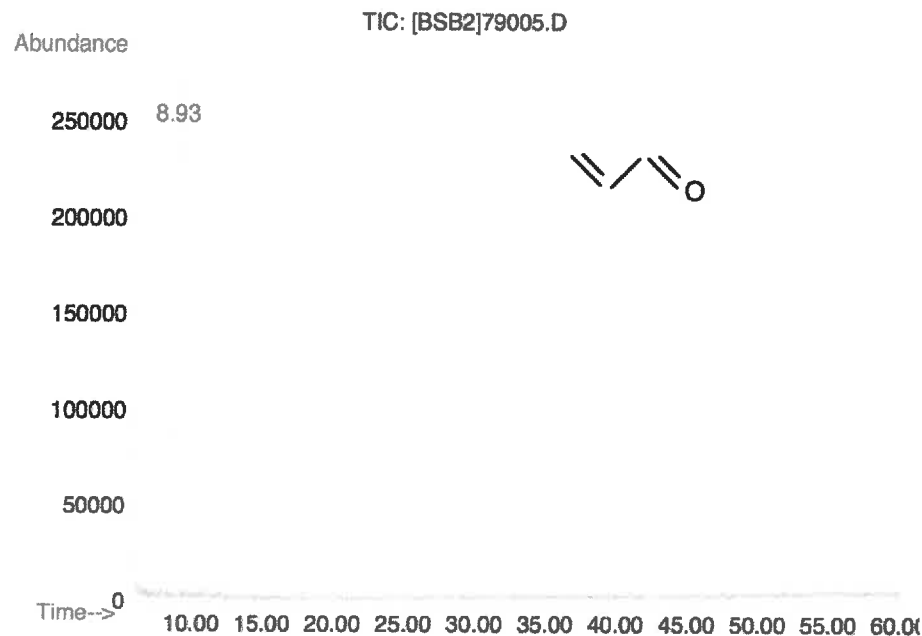
Part Number: 91980
Lot Number: 031725
Description: AcroleinSolvent(s): Water
Lot#: 072324QV14895 to
V14899Expiration Date: 041725
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Weight(s) shown below were combined and diluted to (mL): 10.0

		031725
Formulated By:	Lawrence Barry	DATE
		031725
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	SDS Information		
									Uncertainty (+/-) (µg/mL)	(Solvent Safety Info. On Attached pg.)	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05170	5004.1	52.5	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. Detector: Mass Selective Detector (Scan mode). Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Oven Profile: Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.)
Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas. NOTE: Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately.
Long term storage is not recommended. Please contact our technical department if further information is required.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
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- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
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- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

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Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	1-352-323-3500
		Date Prepared/Revised	January 1, 2025

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 shield
		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.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.		Eye protection.

Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	100°C	Specific Gravity (H2O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

Vapor Density (AIR = 1)		NA	Evaporation rate (Butyl Acetate = 1)	0°C
Solubility in Water		Completely miscible		NA
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)	IATA
Not dangerous goods	Not dangerous goods
Proper shipping name: Water	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

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Certified Reference Material CRM

Dec 09/17/24

2 vials

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

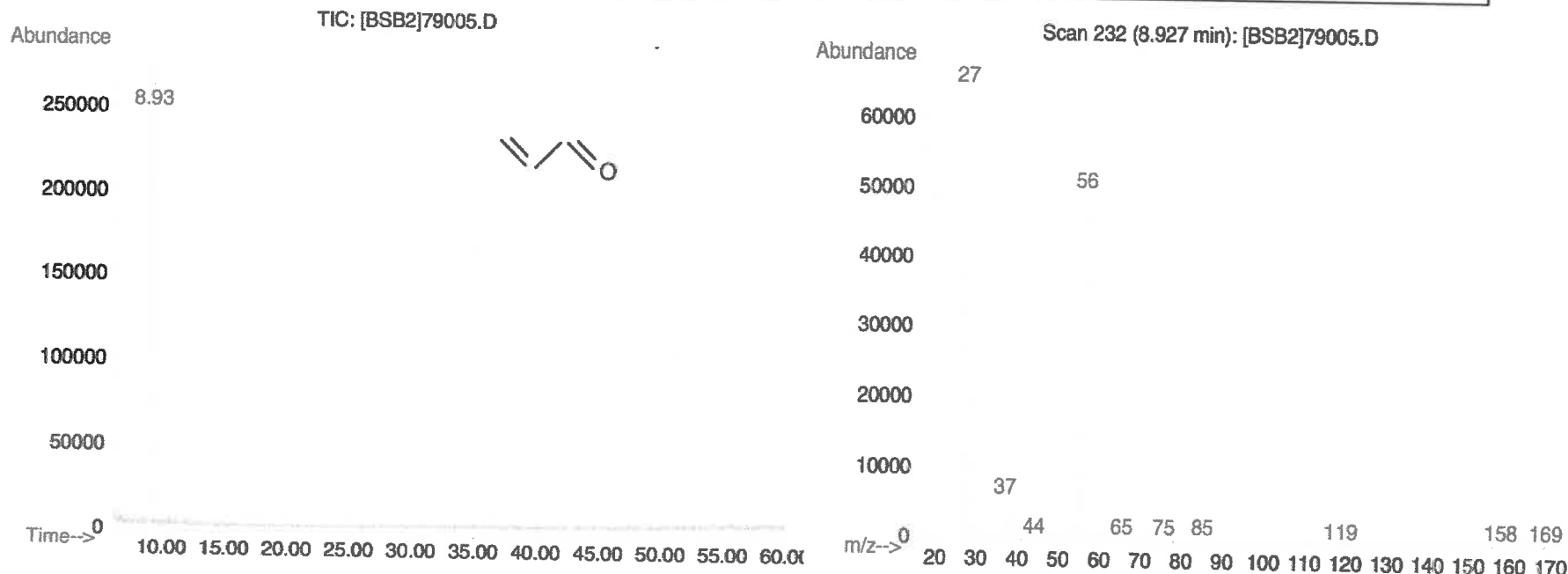
CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 091424
Description: AcroleinSolvent(s): Water
Lot#: 072324QExpiration Date: 101424
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTBWeight(s) shown below were combined and diluted to (mL): 10.0
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Formulated By:	Justin Dippold
091424 DATE	
Reviewed By:	Pedro L. Rentas
091424 DATE	

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05175	5008.9	52.5	107-02-8	0.1 ppm	ori-rat 46mg/kg

Method: GC6MSD-1. Detector: Mass Selective Detector (Scan mode). Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Oven Profile: Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2 = 200°C (Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas. NOTE: Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately. Long term storage is not recommended. Please contact our technical department if further information is required.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).



Certified Reference Material CRM

Dec 09/17/24

2 vials

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

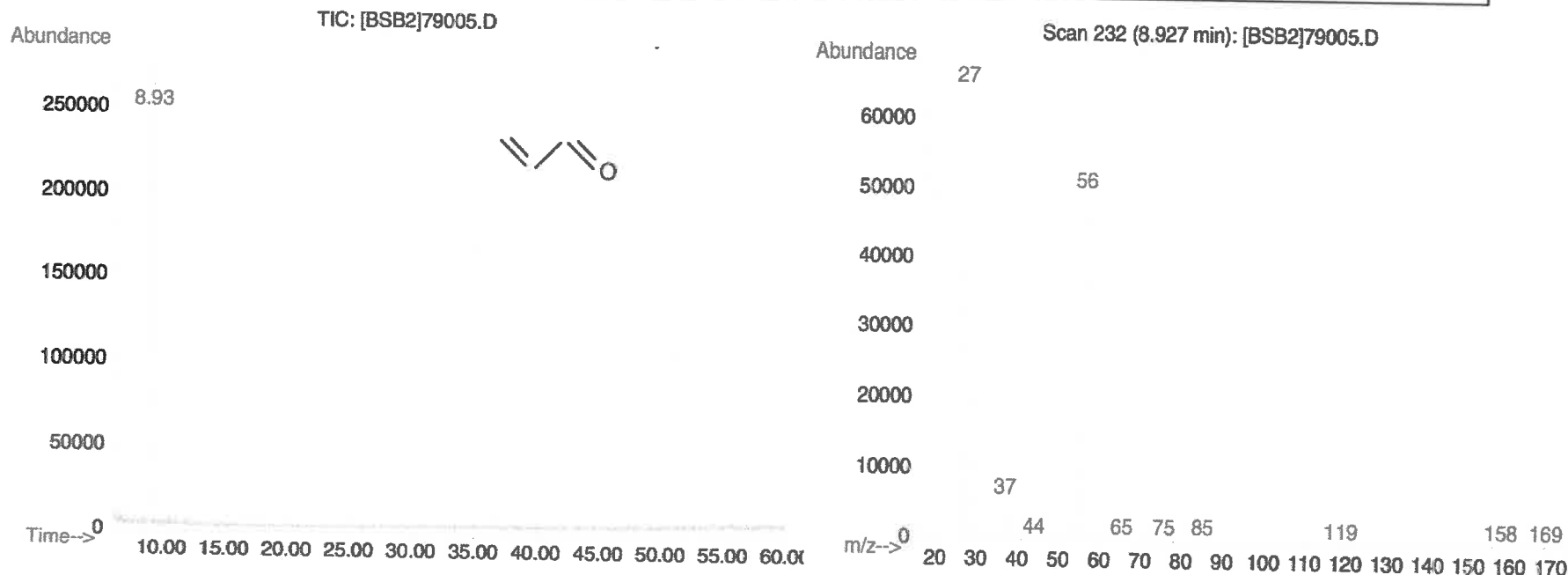
CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 091424
Description: AcroleinSolvent(s): Water
Lot#: 072324QExpiration Date: 101424
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTBWeight(s) shown below were combined and diluted to (mL): 10.0
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Formulated By:	Justin Dippold
091424 DATE	
Reviewed By:	Pedro L. Rentas
091424 DATE	

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05175	5008.9	52.5	107-02-8	0.1 ppm	ori-rat 46mg/kg

Method: GC6MSD-1. Detector: Mass Selective Detector (Scan mode). Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Oven Profile: Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2 = 200°C (Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas. NOTE: Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately. Long term storage is not recommended. Please contact our technical department if further information is required.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).



Certified Reference Material CRM



CERTIFIED WEIGHT REPORT

Part Number: **95318**
Lot Number: **120524**
Description: **2-Chloroethyl vinyl ether**

Solvent(s):
Methanol

Lot#
EJ143-US

Expiration Date: **120527**
Recommended Storage: **Refrigerate (4 °C)**
Nominal Concentration (µg/mL): **10000**
NIST Test ID#: **6UTB**

Weight(s) shown below were combined and diluted to (mL): **50.0**

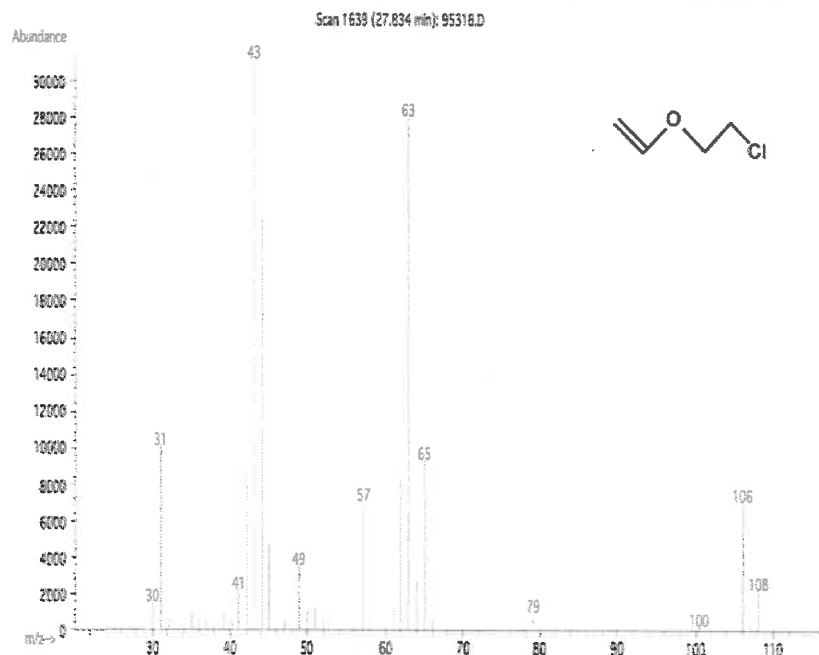
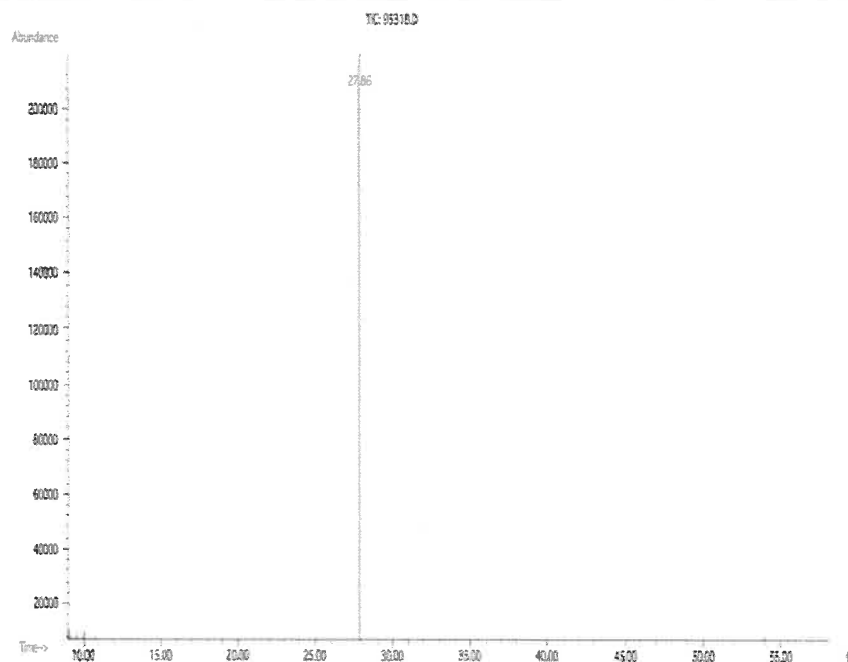
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Prashant Chauhan 120524
Formulated By: Prashant Chauhan DATE
Pedro L. Rentas 120524
Reviewed By: Pedro L. Rentas DATE

✓ 14630 to
✓ 14649

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 certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr.	Emergency Telephone International	1-352-323-3500
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	Highly Flammable Liquid and Vapor	H301, 311, 331	Toxic if swallowed, skin contact, inhaled
H370	Cause damage to organs	H351	Suspected of causing cancer
P271	Use in ventilated area	P280	Use gloves, eye protection/face shield
P302,332	If on skin, wash with soap and water	P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		% (optional)
Methanol	METHYL ALCOHOL	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1	TWA 200 ppm
Skin notation		TWA 200 ppm
Potential for skin absorption, ingestion and inhalation.		
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.		

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



Certified Reference Material CRM


 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**

 Solvent(s):
 Methanol EJ143-US

 Expiration Date: **120527**
 Recommended Storage: **Refrigerate (4 °C)**
 Nominal Concentration (µg/mL): **10000**
 NIST Test ID#: **6UTB**

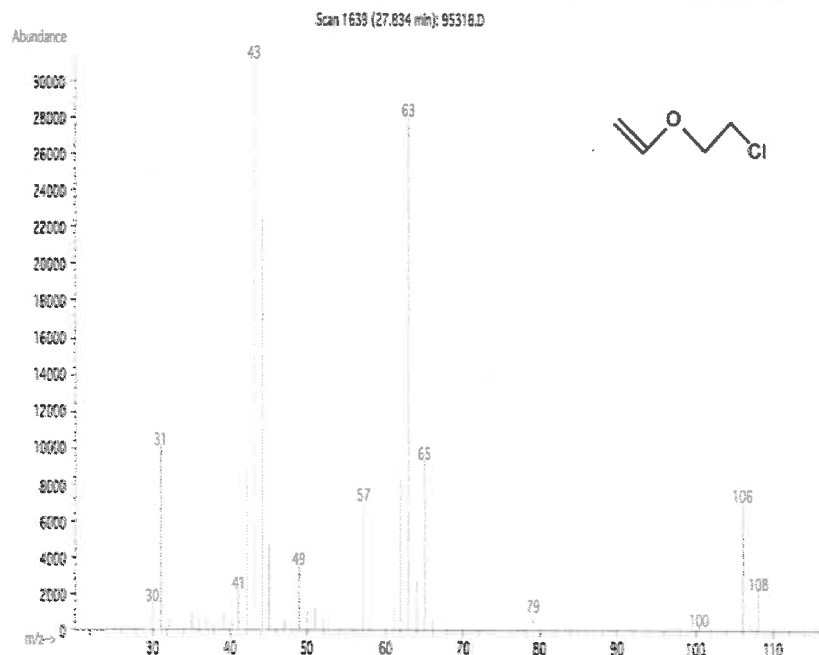
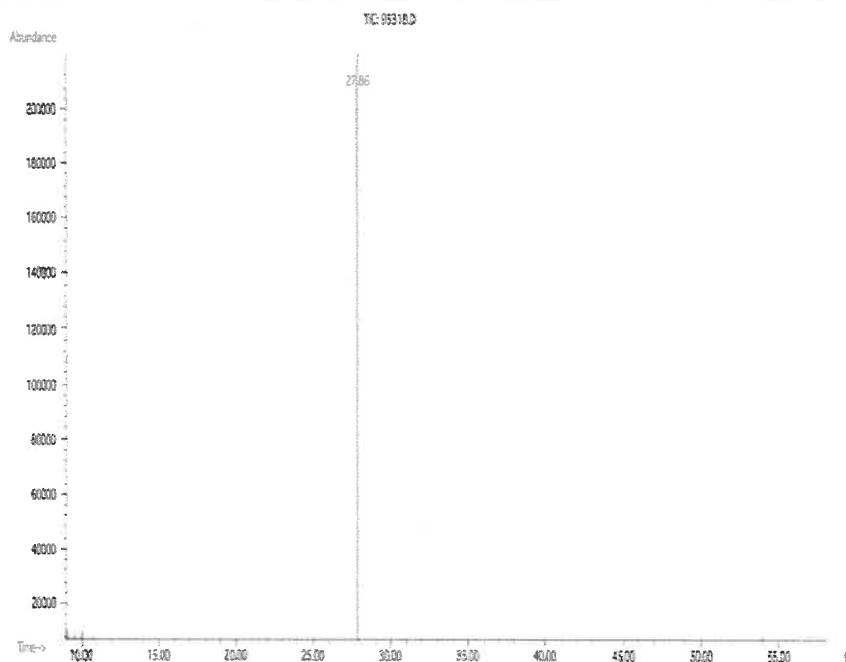
 Weight(s) shown below were combined and diluted to (mL): **50.0**
 5E-05 Balance Uncertainty
 0.001 Flask Uncertainty

<i>Prashant Chauhan</i>		120524
Formulated By:	Prashant Chauhan	DATE
<i>Pedro L. Rentas</i>		120524
Reviewed By:	Pedro L. Rentas	DATE

 Rec 12/6/24
 20 vial
 V14630 to
 V14649

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 certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr.	Emergency Telephone International	1-352-323-3500
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	Highly Flammable Liquid and Vapor	H301, 311, 331	Toxic if swallowed, skin contact, inhaled
H370	Cause damage to organs	H351	Suspected of causing cancer
P271	Use in ventilated area	P280	Use gloves, eye protection/face shield
P302,332	If on skin, wash with soap and water	P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		% (optional)
Methanol	METHYL ALCOHOL	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1	TWA 200 ppm
Skin notation		TWA 200 ppm
Potential for skin absorption, ingestion and inhalation.		
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.		

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



Certified Reference Material CRM



CERTIFIED WEIGHT REPORT

Part Number: **95318**
Lot Number: **120524**
Description: **2-Chloroethyl vinyl ether**

Solvent(s):
Methanol

Lot#
EJ143-US

Expiration Date: **120527**
Recommended Storage: **Refrigerate (4 °C)**
Nominal Concentration (µg/mL): **10000**
NIST Test ID#: **6UTB**

Weight(s) shown below were combined and diluted to (mL): **50.0**

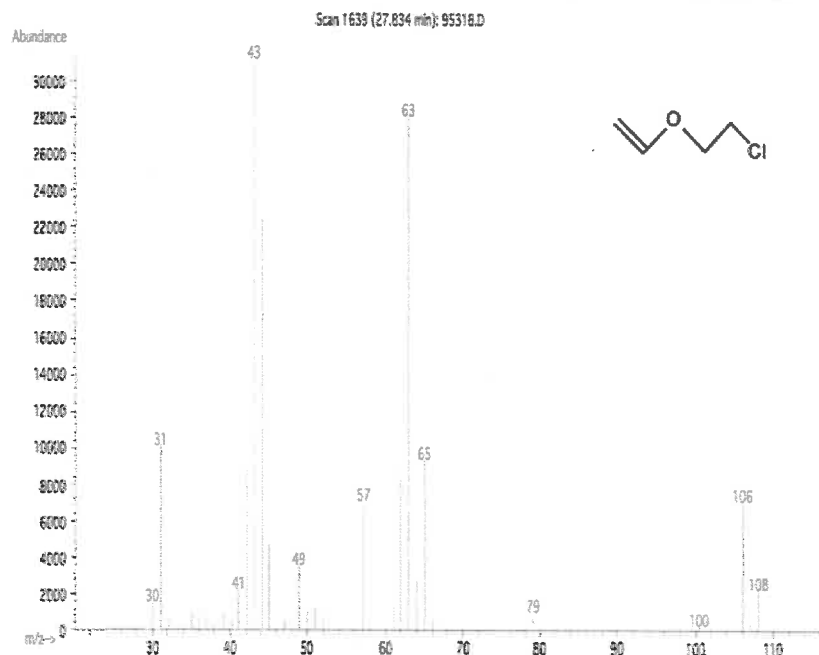
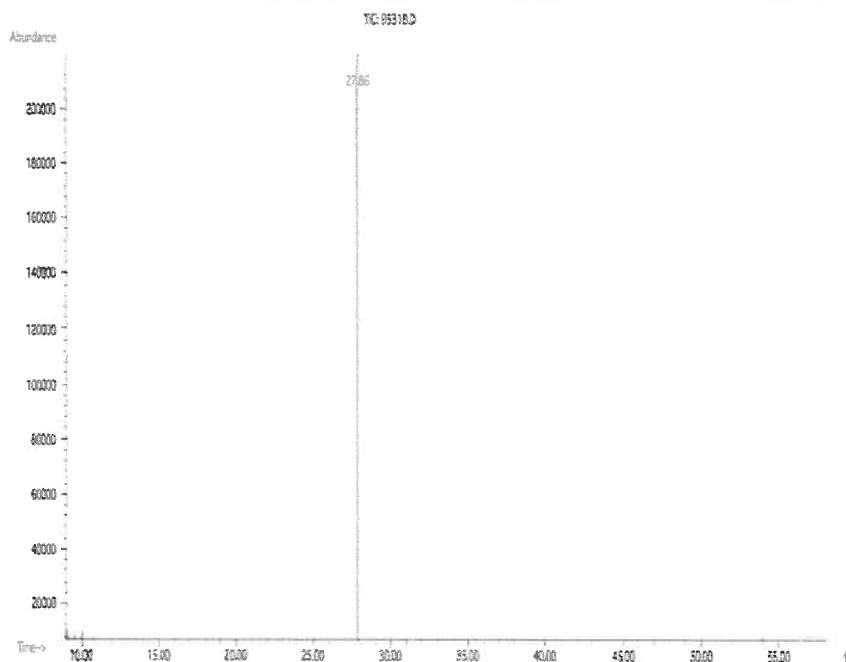
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Prashant Chauhan 120524
Formulated By: Prashant Chauhan DATE
Pedro L. Rentas 120524
Reviewed By: Pedro L. Rentas DATE

✓ 14630 to
✓ 14649

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.



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Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

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Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr.	Emergency Telephone International	1-352-323-3500
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	Highly Flammable Liquid and Vapor	H301, 311, 331	Toxic if swallowed, skin contact, inhaled
H370	Cause damage to organs	H351	Suspected of causing cancer
P271	Use in ventilated area	P280	Use gloves, eye protection/face shield
P302,332	If on skin, wash with soap and water	P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		% (optional)
Methanol	METHYL ALCOHOL	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

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Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1	TWA 200 ppm
Skin notation		TWA 200 ppm
Potential for skin absorption, ingestion and inhalation.		
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.		

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



Certified Reference Material CRM



CERTIFIED WEIGHT REPORT

Part Number: **95318**
Lot Number: **120524**
Description: **2-Chloroethyl vinyl ether**

Solvent(s):
Methanol

Lot#
EJ143-US

Expiration Date: **120527**
Recommended Storage: **Refrigerate (4 °C)**
Nominal Concentration (µg/mL): **10000**
NIST Test ID#: **6UTB**

Weight(s) shown below were combined and diluted to (mL): **50.0**

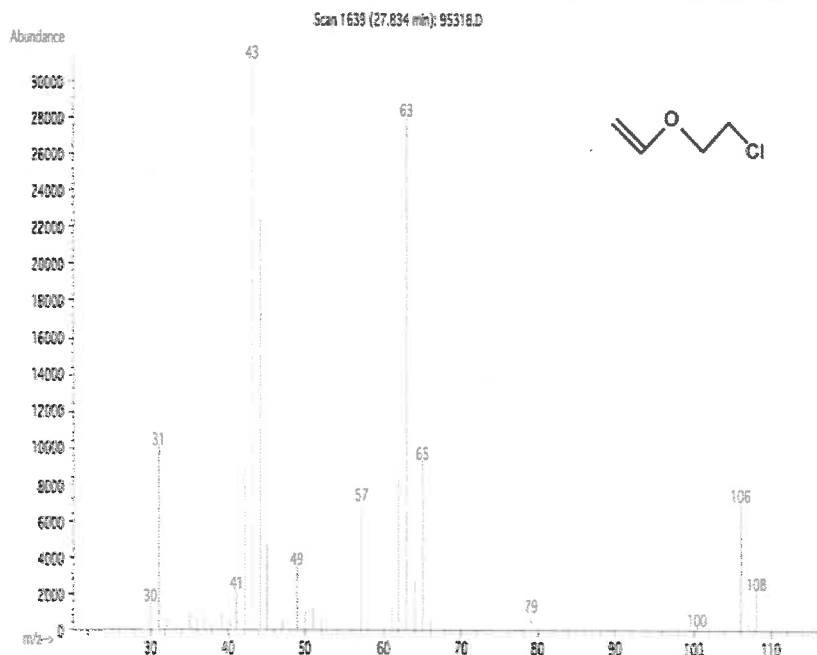
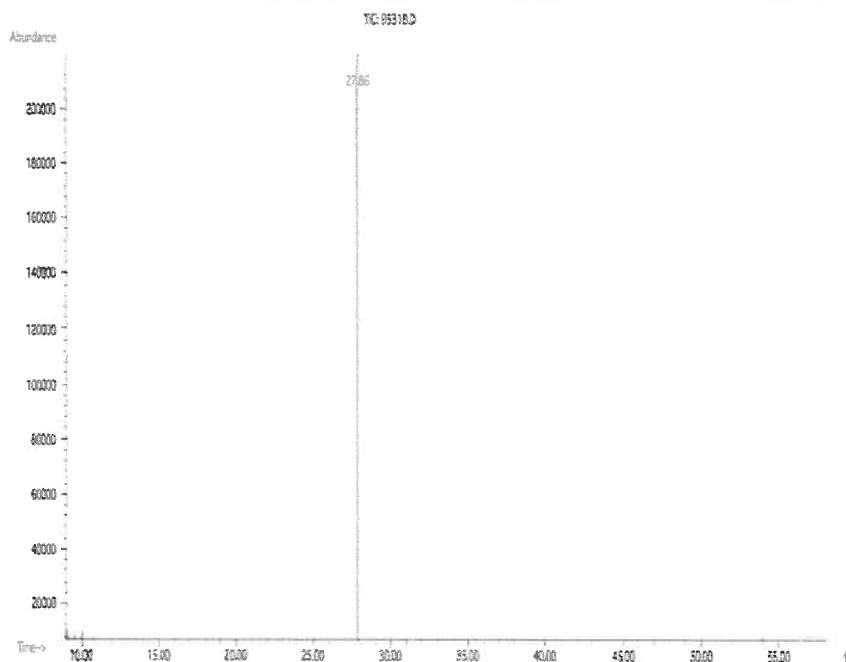
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Prashant Chauhan 120524
Formulated By: Prashant Chauhan DATE
Pedro L. Rentas 120524
Reviewed By: Pedro L. Rentas DATE

✓ 14630 to
✓ 14649

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded	SDS Information		
									Uncertainty (+/-) (µg/mL)	(Solvent Safety Info. On Attached pg.)	CAS#	OSHA PEL (TWA)
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 certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr.	Emergency Telephone International	1-352-323-3500
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	Highly Flammable Liquid and Vapor	H301, 311, 331	Toxic if swallowed, skin contact, inhaled
H370	Cause damage to organs	H351	Suspected of causing cancer
P271	Use in ventilated area	P280	Use gloves, eye protection/face shield
P302,332	If on skin, wash with soap and water	P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		% (optional)
Methanol	METHYL ALCOHOL	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1	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

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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



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30067 **Lot No.:** A0191805

Description : 4-Bromofluorobenzene Standard

4-Bromofluorobenzene Standard 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Bromo-4-fluorobenzene (BFB)	460-00-4	184975	99%	2,483.9 µg/mL	+/- 139.5488

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

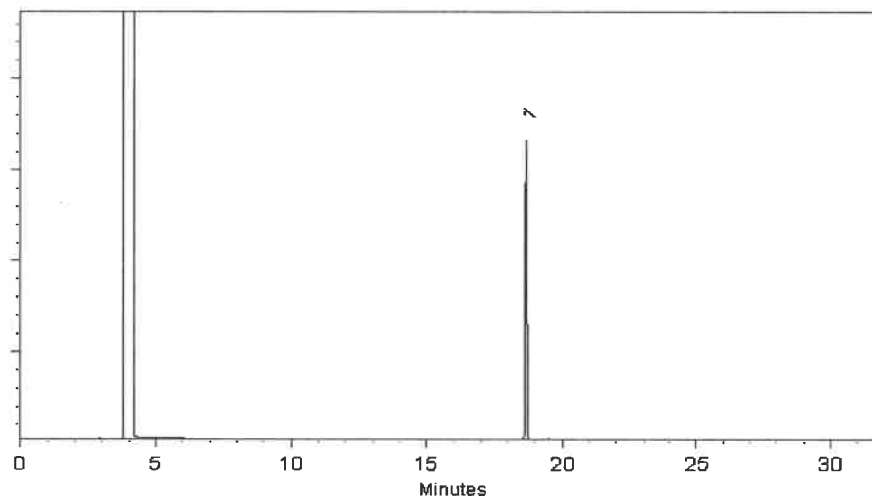
FID

Split Vent:

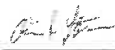
40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Alicia Leathers - Operation Technician I

Date Mixed: 17-Nov-2022

Balance Serial # B251644995


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 21-Nov-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0193071

Description : Bromochloromethane Standard
Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	00008541	99%	2,018.0 µg/mL	+/- 113.3890

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

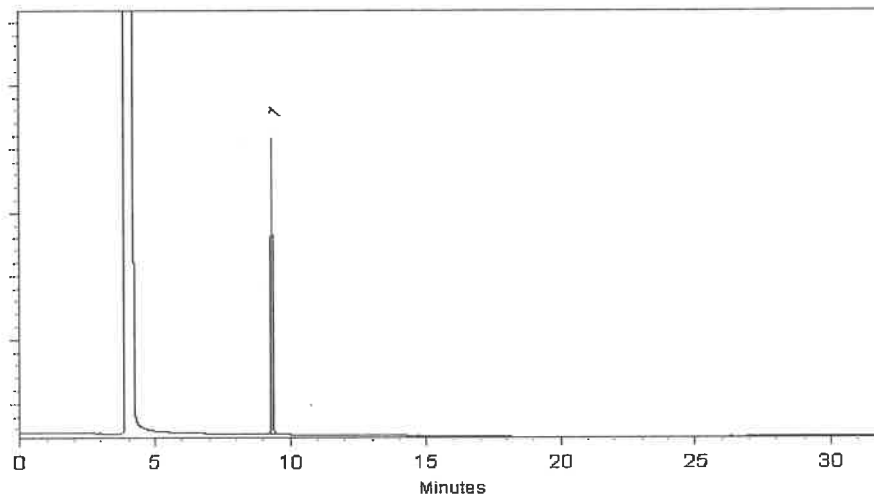
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022 Balance Serial # B707717271


Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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chromatographic plus



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Catalog No. : 30225 **Lot No.:** A0193071

Description : Bromochloromethane Standard
Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2027 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	00008541	99%	2,018.0 µg/mL	+/- 113.3890

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

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Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

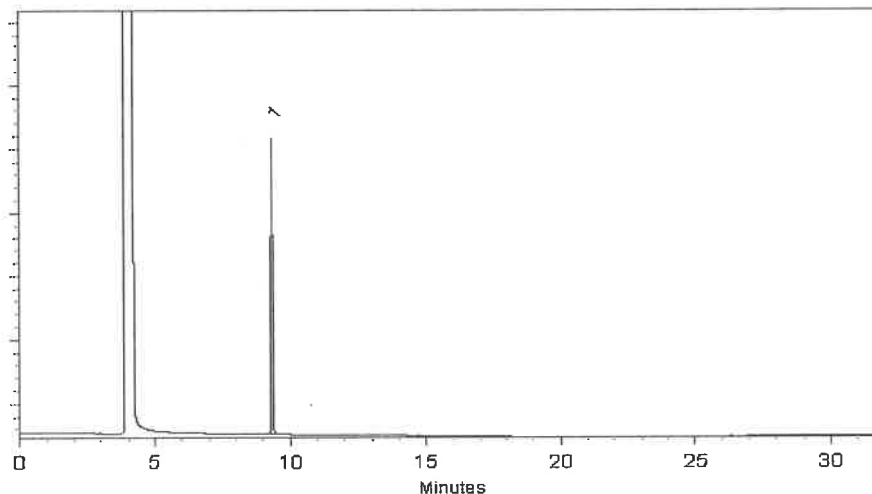
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



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Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022 Balance Serial # B707717271


Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

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Expiration Date : December 31, 2027 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

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CAS # 67-56-1
Purity 99%

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250°C

Det. Type:

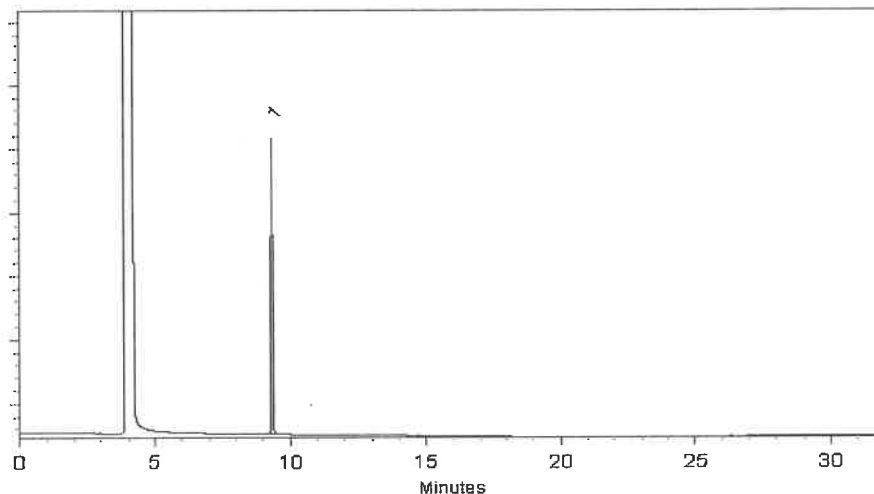
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



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Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022 Balance Serial # B707717271


Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-2023

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Registered Quality System
Certificate #FM 80397

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$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0193071

Description : Bromochloromethane Standard
Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	00008541	99%	2,018.0 µg/mL	+/- 113.3890

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

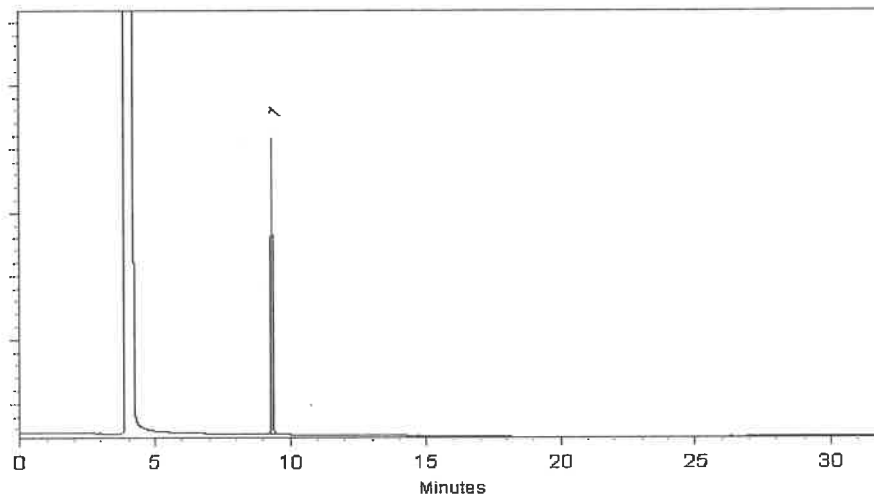
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022 Balance Serial # B707717271


Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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

Russ Bookhamer - Operations Technician I

Date Mixed: 11-Apr-2023

Balance: 1127510105

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30489 **Lot No.:** A0209618

Description : 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty* (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBP3100	99%	2,019.3 µg/mL	+/- 69.7974
2	Vinyl acetate	108-05-4	RP231030CTH	98%	2,016.8 µg/mL	+/- 69.7112
3	Ethyl acetate	141-78-6	SHBQ9682	99%	2,010.7 µg/mL	+/- 69.4979
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,016.0 µg/mL	+/- 69.6822
5	Propyl acetate	109-60-4	P8XLN	99%	2,008.0 µg/mL	+/- 69.4057
6	Butyl acetate	123-86-4	SHBP6314	99%	2,007.3 µg/mL	+/- 69.3826
7	Amyl acetate	628-63-7	41325/1	97%	2,004.7 µg/mL	+/- 69.2905

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol

CAS # 67-56-1

Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

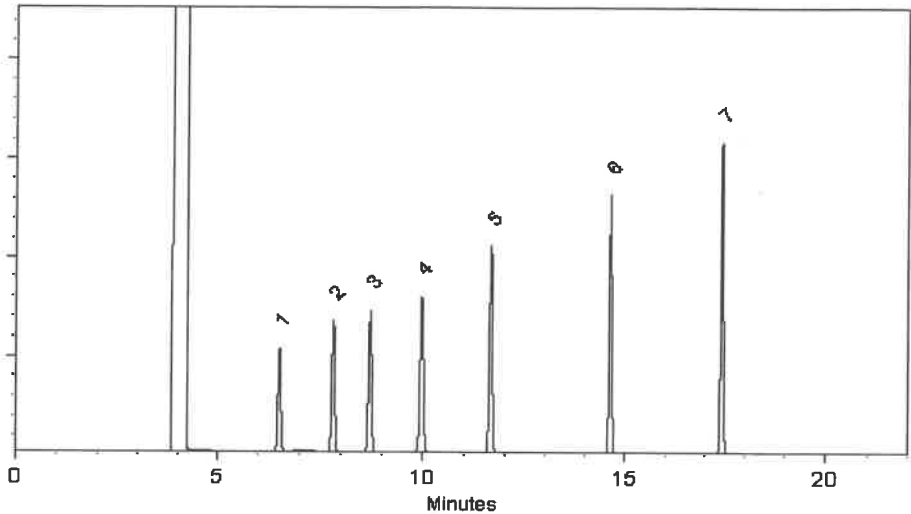
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 28-Mar-2024 Balance Serial # B707717271

Dylan Murphy
Dylan Murphy - Operations Technician I

Date Passed: 01-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30489 **Lot No.:** A0209618

Description : 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty* (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBP3100	99%	2,019.3 µg/mL	+/- 69.7974
2	Vinyl acetate	108-05-4	RP231030CTH	98%	2,016.8 µg/mL	+/- 69.7112
3	Ethyl acetate	141-78-6	SHBQ9682	99%	2,010.7 µg/mL	+/- 69.4979
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,016.0 µg/mL	+/- 69.6822
5	Propyl acetate	109-60-4	P8XLN	99%	2,008.0 µg/mL	+/- 69.4057
6	Butyl acetate	123-86-4	SHBP6314	99%	2,007.3 µg/mL	+/- 69.3826
7	Amyl acetate	628-63-7	41325/1	97%	2,004.7 µg/mL	+/- 69.2905

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

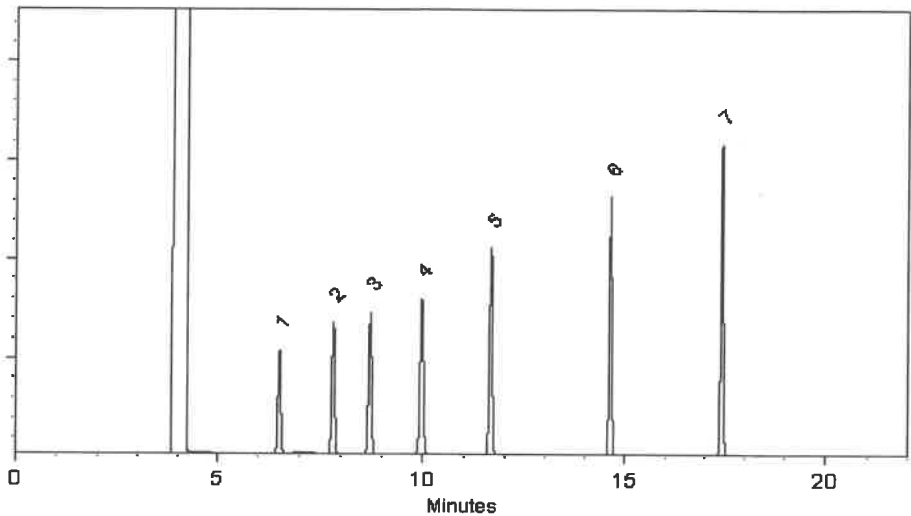
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 28-Mar-2024 Balance Serial # B707717271

Dylan Murphy
Dylan Murphy - Operations Technician I

Date Passed: 01-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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

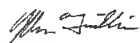
Expiration Date : April 30, 2027 **Storage:** 10°C or colder

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

REVISED
By: Restek America, Inc. 11/15/2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
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- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0210618
Description : VOA Calibration Mix #1
VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : July 31, 2027 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBQ8504	99%	5,014.8 µg/mL	+/- 173.2883
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	5,012.4 µg/mL	+/- 173.2054
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	5,011.6 µg/mL	+/- 173.1777
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,013.0 µg/mL	+/- 173.2261

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

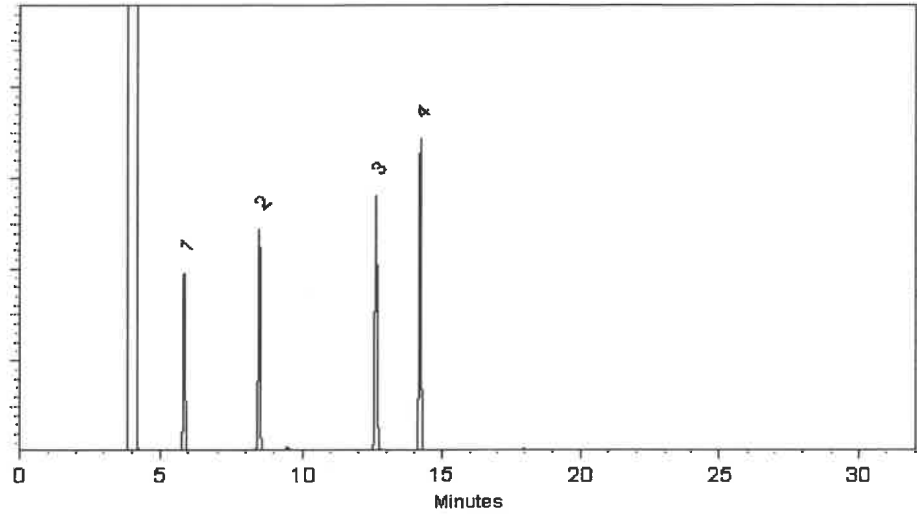
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

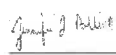


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024

Balance Serial # B707717271


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
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Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis
chromatographic plus
V14697-to-14726



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0210618
Description : VOA Calibration Mix #1
VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : July 31, 2027 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBQ8504	99%	5,014.8 µg/mL	+/- 173.2883
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	5,012.4 µg/mL	+/- 173.2054
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	5,011.6 µg/mL	+/- 173.1777
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,013.0 µg/mL	+/- 173.2261

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

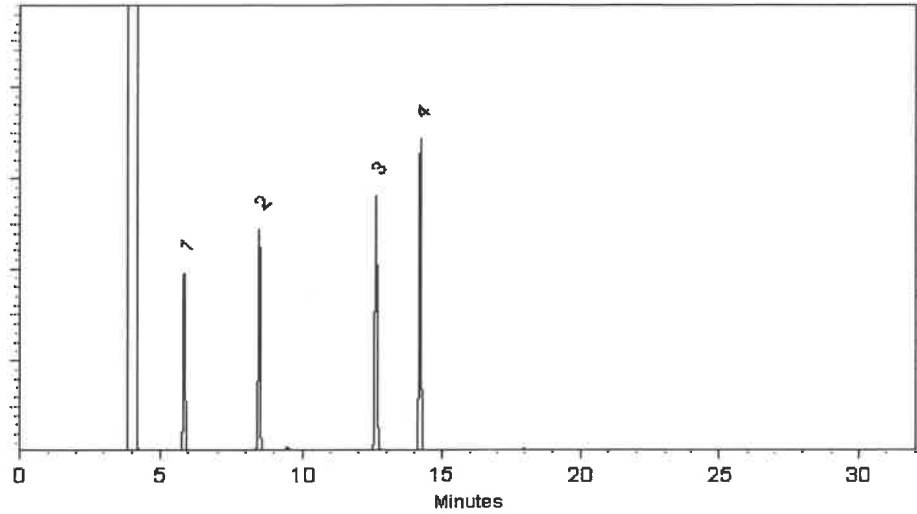
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

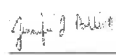


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024

Balance Serial # B707717271


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
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- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

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$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

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CERTIFIED REFERENCE MATERIAL

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0210618
Description : VOA Calibration Mix #1
VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : July 31, 2027 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBQ8504	99%	5,014.8 µg/mL	+/- 173.2883
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	5,012.4 µg/mL	+/- 173.2054
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	5,011.6 µg/mL	+/- 173.1777
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,013.0 µg/mL	+/- 173.2261

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

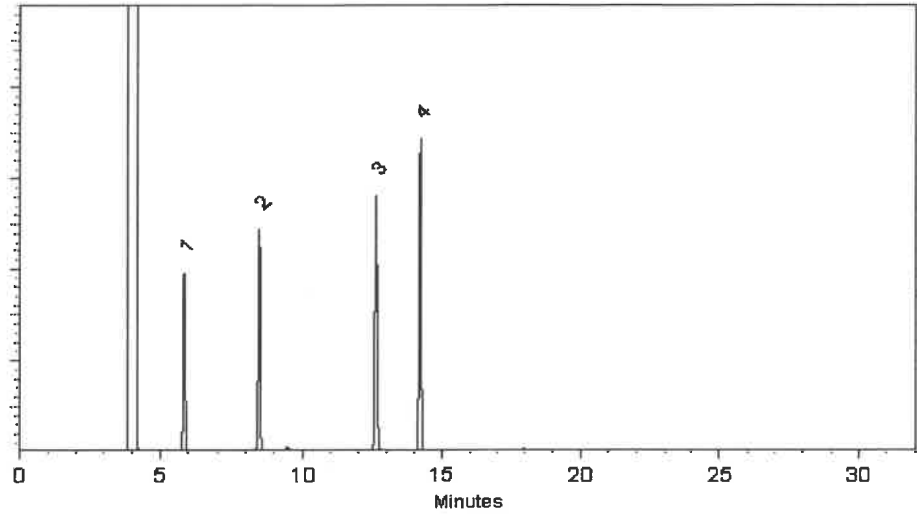
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

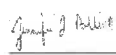


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Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024

Balance Serial # B707717271


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
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k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

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Manufacturing Notes:

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Handling Notes:

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30 ml
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V14727 to
V14756



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** A0216826
Description : 502.2 Calibration Mix #1
502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : May 31, 2031 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00022922	99%	2,000.9 µg/mL	+/- 112.4144
2	Chloromethane (methyl chloride)	74-87-3	00022694	99%	2,000.7 µg/mL	+/- 112.3998
3	Vinyl chloride	75-01-4	00015559	99%	2,000.3 µg/mL	+/- 112.3779
4	Bromomethane (methyl bromide)	74-83-9	00017022	99%	2,001.8 µg/mL	+/- 112.4650
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,000.1 µg/mL	+/- 112.3700
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCJ8658	99%	2,000.7 µg/mL	+/- 112.3992

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:

helium-constant flow 2.0 mL/min.

Temp. Program:

40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

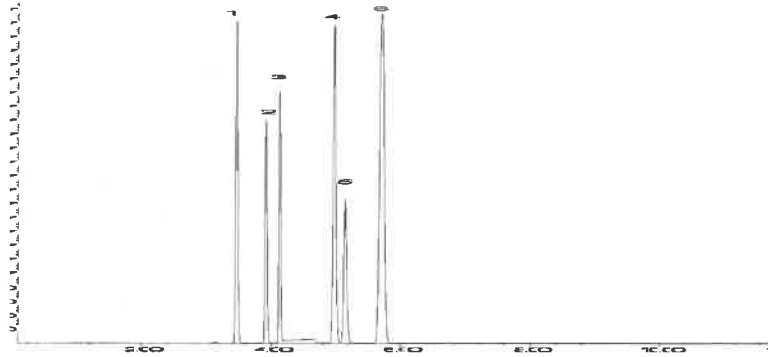
MSD

Split Vent:

Split ratio 10:1

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckal - Mix Technician

Date Mixed: 23-Sep-2024

Balance Serial # B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 04-Oct-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
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- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

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$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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Rec 12/17/24
30 ml
CERTIFIED REFERENCE MATERIAL

Certificate of Analysis
chromatographic plus

V14727 to
V14756



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** A0216826
Description : 502.2 Calibration Mix #1
502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : May 31, 2031 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00022922	99%	2,000.9 µg/mL	+/- 112.4144
2	Chloromethane (methyl chloride)	74-87-3	00022694	99%	2,000.7 µg/mL	+/- 112.3998
3	Vinyl chloride	75-01-4	00015559	99%	2,000.3 µg/mL	+/- 112.3779
4	Bromomethane (methyl bromide)	74-83-9	00017022	99%	2,001.8 µg/mL	+/- 112.4650
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,000.1 µg/mL	+/- 112.3700
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCJ8658	99%	2,000.7 µg/mL	+/- 112.3992

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:

helium-constant flow 2.0 mL/min.

Temp. Program:

40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

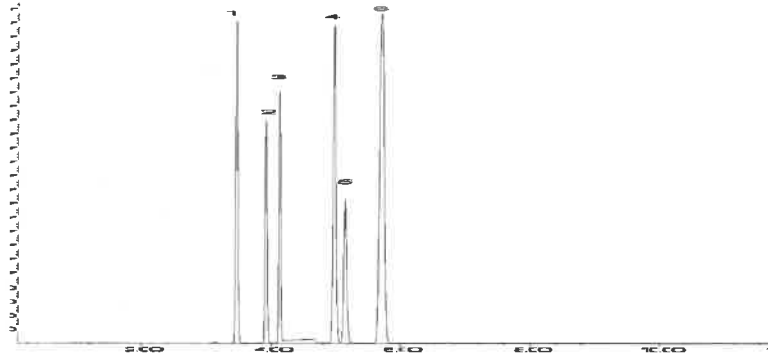
MSD

Split Vent:

Split ratio 10:1

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckal - Mix Technician

Date Mixed: 23-Sep-2024

Balance Serial # B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 04-Oct-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

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Purity Notes:

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Certified Uncertainty Value Notes:

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k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

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Manufacturing Notes:

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Handling Notes:

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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✓ 14842 to 14846



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30470 **Lot No.:** A0217535
Description : tert-Butanol Standard
tert-Butanol Std 50,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : October 31, 2027 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	tert-Butanol (TBA)	75-65-0	SHBQ8002-1	99%	50,007.5 µg/mL	+/- 717.6137

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

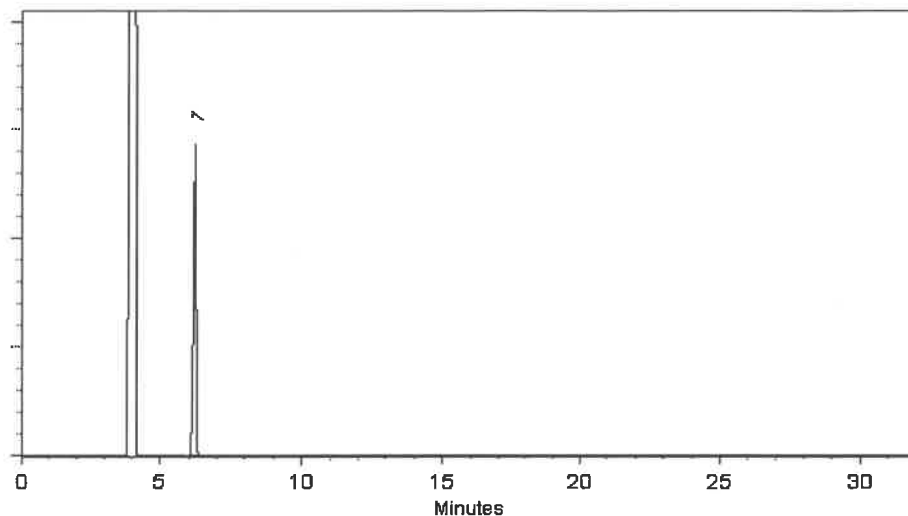
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



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A. O. E.
Aaron Enyart - Operations Tech I

Date Mixed: 07-Oct-2024

Balance Serial # B251644995

Brittany Federinko
Brittany Federinko - Operations Tech I

Date Passed: 09-Oct-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

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Handling Notes:

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- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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Fax: 1-814-353-1309

www.restek.com

2014 Dec 01/08/21
CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic

V14803 - V14822



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555408-SL **Lot No.:** A0220471
Description : Custom Vinyl Acetate Standard
Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : June 30, 2026 **Storage:** -20°C or colder
Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Vinyl acetate	108-05-4	RD240423RSR	99%	8,066.0 µg/mL	+/- 278.7979

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

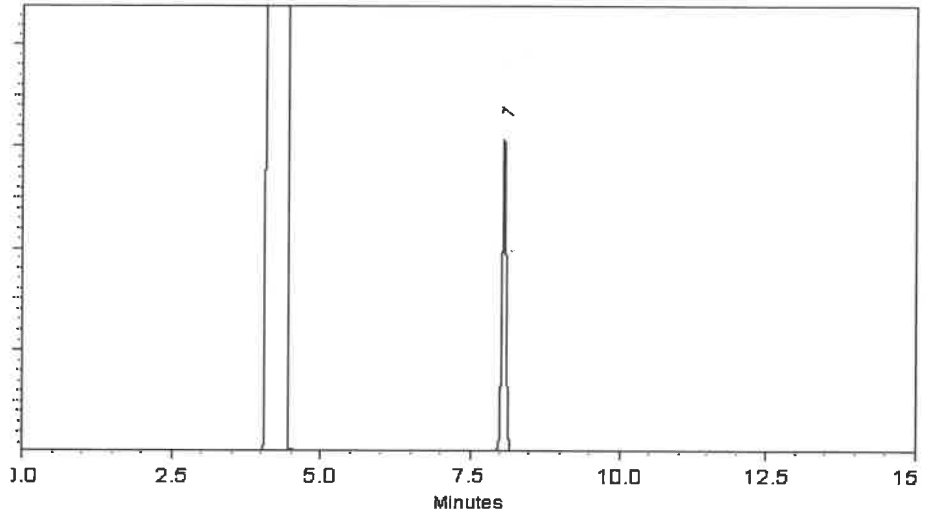
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ethan Winiarski - Operations Tech I

Date Mixed: 24-Dec-2024

Balance Serial # 1127510105

Dillan Murphy - Operations Technician I

Date Passed: 02-Jan-2025

REVIEWED
By Jennifer Pollock at 7:12 am, Jan 05, 2025

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

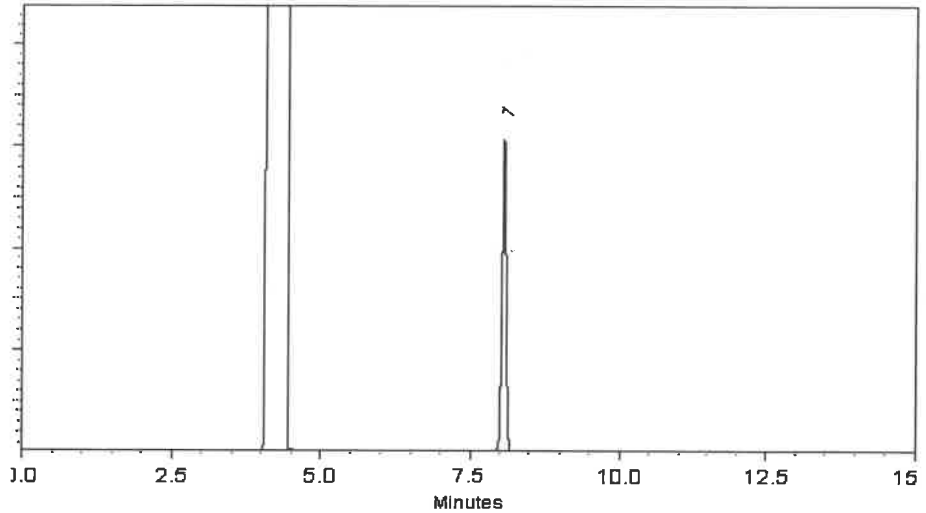
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Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titration Acid (μeq/g)	≤ 0.3	0.2
Titration Base (μeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis - Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



V14883
V14884

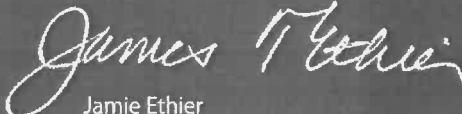
Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

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Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC


Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087, U.S.A. Phone 610.386.1700
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SHIPPING DOCUMENTS

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Q1664

USEPA

DateShipped: 3/26/2025

CarrierName: Hand Deliver

AirbillNo: N/a

CHAIN OF CUSTODY RECORD

Site #: 02FP

Contact Name Josh Frizzell

(470) 277-4600

No: 2-032625-0004-0037-01

RFP# 905A

Lab: Alliance Technical Group, LLC - Non
CLP

Lab Phone: 908-728-3144

Lab #	Sample #	Location	CLP Sample #	Tag	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	P001-BBDGA-001-01	P001-BBDGA-001		A	TAL VOCs (TAT 3 Days)	Stone	3/26/2025	09:30	9	5-g Encore	4 C	Y
	P001-BBDGA-001-01	P001-BBDGA-001		B	TAL SVOC+Pest+PCB (TAT 3 Days)	Stone	3/26/2025	09:30	6	8 oz glass	4 C	Y
	P001-BBDGA-001-01	P001-BBDGA-001		C	Percent Moisture (TAT 3 Days)	Stone	3/26/2025	09:30	3	4 oz glass w/septum	4 C	Y
	P001-BBDGA-001-01	P001-BBDGA-001		D	TAL Metals+Hg+CN (TAT 3 Days)	Stone	3/26/2025	09:30	6	8 oz glass	4 C	Y
	P001-BBDGA-001-01	P001-BBDGA-001		E	EPH (TAT 3 Days)	Stone	3/26/2025	09:30	3	8 oz glass	4 C	Y
	P001-BBDGA-001-01	P001-BBDGA-001		F	SPLP EPH	Stone	3/26/2025	09:30	3	8 oz glass	4 C	Y
	P001-BBDGA-001-01	P001-BBDGA-001		G	SPLP VOCs	Stone	3/26/2025	09:30	9	5-g Encore	4 C	Y
	P001-BBDGA-001-01	P001-BBDGA-001		H	SPLP SVOCs + Pest+PCBs (TAT 7 Days)	Stone	3/26/2025	09:30	6	8 oz glass	4 C	Y
	P001-BBDGA-001-01	P001-BBDGA-001		I	Percent Moisture (SPLP) (TAT 7 Days)	Stone	3/26/2025	09:30	3	4 oz glass w/septum	4 C	Y
	P001-BBDGA-001-01	P001-BBDGA-001		J	SPLP Metals+Hg+CN (TAT 7 Days)	Stone	3/26/2025	09:30	6	8 oz glass	4 C	Y

Special Instructions: Please email results to S.Sumbaly@WestonSolutions.com and Josh.Frizzell@WestonSolutions.com. TAT for TAL analyses is 3 days. TAT for SPLP analyses is 7 days.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL SAMPLES ALL ANALYSES	<i>mc</i> WESTON	8:35 3-27-25	<i>AR</i>	8:35 3-27-25	IF Gen #1 2.14 no Custody Seal Temp Blank present

Q1664

USEPA

DateShipped: 3/26/2025

CarrierName: Hand Deliver

AirbillNo: N/a

CHAIN OF CUSTODY RECORD

Site #: 02FP

Contact Name Josh Frizzell

(470) 277-4600

No: 2-032625-0004-0037-01

RFP# 905A

Lab: Alliance Technical Group, LLC - Non CLP

Lab Phone: 908-728-3144

Lab #	Sample #	Location	CLP Sample #	Tag	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	P001-BBDGA-001-02	P001-BBDGA-001		A	TAL VOCs (TAT 3 Days)	Stone	3/26/2025	09:30	3	5-g Encore	4 C	N
	P001-BBDGA-001-02	P001-BBDGA-001		B	TAL SVOC+Pest+PCB (TAT 3 Days)	Stone	3/26/2025	09:30	2	8 oz glass	4 C	N
	P001-BBDGA-001-02	P001-BBDGA-001		C	Percent Moisture (TAT 3 Days)	Stone	3/26/2025	09:30	1	4 oz glass w/septum	4 C	N
	P001-BBDGA-001-02	P001-BBDGA-001		D	TAL Metals+Hg+CN (TAT 3 Days)	Stone	3/26/2025	09:30	2	8 oz glass	4 C	N
	P001-BBDGA-001-02	P001-BBDGA-001		E	EPH (TAT 3 Days)	Stone	3/26/2025	09:30	1	8 oz glass	4 C	N
	P001-BBDGA-001-02	P001-BBDGA-001		F	SPLP EPH	Stone	3/26/2025	09:30	1	8 oz glass	4 C	N
	P001-BBDGA-001-02	P001-BBDGA-001		G	SPLP VOCs	Stone	3/26/2025	09:30	3	5-g Encore	4 C	N
	P001-BBDGA-001-02	P001-BBDGA-001		H	SPLP SVOCs + Pest+PCBs (TAT 7 Days)	Stone	3/26/2025	09:30	2	8 oz glass	4 C	N
	P001-BBDGA-001-02	P001-BBDGA-001		I	Percent Moisture (SPLP) (TAT 7 Days)	Stone	3/26/2025	09:30	1	4 oz glass w/septum	4 C	N
	P001-BBDGA-001-02	P001-BBDGA-001		J	SPLP Metals+Hg+CN (TAT 7 Days)	Stone	3/26/2025	09:30	2	8 oz glass	4 C	N

Special Instructions: Please email results to S.Sumbaly@WestonSolutions.com and Josh.Frizzell@WestonSolutions.com. TAT for TAL analyses is 3 days. TAT for SPLP analyses is 7 days.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL SAMPLES ALL ANALYSES	<i>WJ</i> WESTON	0835 3/27/25	<i>CF</i>	0835 3-27-25	IR-Bin #1 2-1-C No Custody Seal Temp Blank present

Q1664

USEPA

DateShipped: 3/26/2025

CarrierName: Hand Deliver

AirbillNo: N/a

CHAIN OF CUSTODY RECORD

Site #: 02FP

Contact Name Josh Frizzell

(470) 277-4600

No: 2-032625-0004-0037-01

RFP# 905A

Lab: Alliance Technical Group, LLC - Non
CLP

Lab Phone: 908-728-3144

Lab #	Sample #	Location	CLP Sample #	Tag	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	P001-BBDGA-002-01	P001-BBDGA-002		A	TAL VOCs (TAT 3 Days)	Stone	3/26/2025	09:35	3	5-g Encore	4 C	N
	P001-BBDGA-002-01	P001-BBDGA-002		B	TAL SVOC+Pest+PCB (TAT 3 Days)	Stone	3/26/2025	09:35	2	8 oz glass	4 C	N
	P001-BBDGA-002-01	P001-BBDGA-002		C	Percent Moisture (TAT 3 Days)	Stone	3/26/2025	09:35	1	4 oz glass w/septum	4 C	N
	P001-BBDGA-002-01	P001-BBDGA-002		D	TAL Metals+Hg+CN (TAT 3 Days)	Stone	3/26/2025	09:35	2	8 oz glass	4 C	N
	P001-BBDGA-002-01	P001-BBDGA-002		E	EPH (TAT 3 Days)	Stone	3/26/2025	09:35	1	8 oz glass	4 C	N
	P001-BBDGA-002-01	P001-BBDGA-002		F	SPLP EPH	Stone	3/26/2025	09:35	1	8 oz glass	4 C	N
	P001-BBDGA-002-01	P001-BBDGA-002		G	SPLP VOCs	Stone	3/26/2025	09:35	3	5-g Encore	4 C	N
	P001-BBDGA-002-01	P001-BBDGA-002		H	SPLP SVOCs + Pest+PCBs (TAT 7 Days)	Stone	3/26/2025	09:35	2	8 oz glass	4 C	N
	P001-BBDGA-002-01	P001-BBDGA-002		I	Percent Moisture (SPLP) (TAT 7 Days)	Stone	3/26/2025	09:35	1	4 oz glass w/septum	4 C	N
	P001-BBDGA-002-01	P001-BBDGA-002		J	SPLP Metals+Hg+CN (TAT 7 Days)	Stone	3/26/2025	09:35	2	8 oz glass	4 C	N

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ALL SAMPLES ALL ANALYSES	<i>Wm</i> WESTON	0835 3/27/25	<i>CF</i>	0835 3-27-25	If Cont#1 2-1°C No Custody Seal No Total Temp Blank

USEPA

DateShipped: 3/26/2025

CarrierName: Hand Deliver

AirbillNo: N/a

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CLP

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	P001-BBDGA-003-01	P001-BBDGA-003		A	TAL VOCs (TAT 3 Days)	Stone	3/26/2025	09:40	3	5-g Encore	4 C	N
	P001-BBDGA-003-01	P001-BBDGA-003		B	TAL SVOC+Pest+PCB (TAT 3 Days)	Stone	3/26/2025	09:40	2	8 oz glass	4 C	N
	P001-BBDGA-003-01	P001-BBDGA-003		C	Percent Moisture (TAT 3 Days)	Stone	3/26/2025	09:40	1	4 oz glass w/septum	4 C	N
	P001-BBDGA-003-01	P001-BBDGA-003		D	TAL Metals+Hg+CN (TAT 3 Days)	Stone	3/26/2025	09:40	2	8 oz glass	4 C	N
	P001-BBDGA-003-01	P001-BBDGA-003		E	EPH (TAT 3 Days)	Stone	3/26/2025	09:40	1	8 oz glass	4 C	N
	P001-BBDGA-003-01	P001-BBDGA-003		F	SPLP EPH	Stone	3/26/2025	09:40	1	8 oz glass	4 C	N
	P001-BBDGA-003-01	P001-BBDGA-003		G	SPLP VOCs	Stone	3/26/2025	09:40	3	5-g Encore	4 C	N
	P001-BBDGA-003-01	P001-BBDGA-003		H	SPLP SVOCs + Pest+PCBs (TAT 7 Days)	Stone	3/26/2025	09:40	2	8 oz glass	4 C	N
	P001-BBDGA-003-01	P001-BBDGA-003		I	Percent Moisture (SPLP) (TAT 7 Days)	Stone	3/26/2025	09:40	1	4 oz glass w/septum	4 C	N
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CHAIN OF CUSTODY #**

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					No Custody Seal
					Temp Blank present

USEPA

DateShipped: 3/26/2025

CarrierName: Hand Deliver

AirbillNo: N/a

CHAIN OF CUSTODY RECORD

Site #: 02FP

Contact Name Josh Frizzell

(470) 277-4600

No: 2-032625-0004-0037-01

RFP# 905A

Lab: Alliance Technical Group, LLC - Non
CLP

Lab Phone: 908-728-3144

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	P001-BBDGA-004-01	P001-BBDGA-004		B	TAL SVOC+Pest+PCB (TAT 3 Days)	Stone	3/26/2025	09:45	2	8 oz glass	4 C	N
	P001-BBDGA-004-01	P001-BBDGA-004		C	Percent Moisture (TAT 3 Days)	Stone	3/26/2025	09:45	1	4 oz glass w/septum	4 C	N
	P001-BBDGA-004-01	P001-BBDGA-004		D	TAL Metals+Hg+CN (TAT 3 Days)	Stone	3/26/2025	09:45	2	8 oz glass	4 C	N
	P001-BBDGA-004-01	P001-BBDGA-004		E	EPH (TAT 3 Days)	Stone	3/26/2025	09:45	1	8 oz glass	4 C	N
	P001-BBDGA-004-01	P001-BBDGA-004		F	SPLP EPH	Stone	3/26/2025	09:45	1	8 oz glass	4 C	N
	P001-BBDGA-004-01	P001-BBDGA-004		G	SPLP VOCs	Stone	3/26/2025	09:45	3	5-g Encore	4 C	N
	P001-BBDGA-004-01	P001-BBDGA-004		H	SPLP SVOCs + Pest+PCBs (TAT 7 Days)	Stone	3/26/2025	09:45	2	8 oz glass	4 C	N
	P001-BBDGA-004-01	P001-BBDGA-004		I	Percent Moisture (SPLP) (TAT 7 Days)	Stone	3/26/2025	09:45	1	4 oz glass w/septum	4 C	N
	P001-BBDGA-004-01	P001-BBDGA-004		J	SPLP Metals+Hg+CN (TAT 7 Days)	Stone	3/26/2025	09:45	2	8 oz glass	4 C	N

Special Instructions: Please email results to S.Sumbaly@WestonSolutions.com and Josh.Frizzell@WestonSolutions.com. TAT for TAL analyses is 3 days. TAT for SPLP analyses is 7 days.

**SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #**

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL SAMPLES ALL ANALYSES	<i>[Signature]</i> WESTON	0835 3/27/25	<i>[Signature]</i>	0835 3-27-25	If C-#1 2-1 No Custody Seal Temp Blank present

USEPA

DateShipped: 3/26/2025

CarrierName: Hand Deliver

AirbillNo: N/a

CHAIN OF CUSTODY RECORD

Site #: 02FP

Contact Name Josh Frizzell

(470) 277-4600

No: 2-032625-0004-0037-01

RFP# 905A

Lab: Alliance Technical Group, LLC - Non
CLP

Lab Phone: 908-728-3144

Lab #	Sample #	Location	CLP Sample #	Tag	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	P001-BBDGA-005-01	P001-BBDGA-005		A	TAL VOCs (TAT 3 Days)	Stone	3/26/2025	09:50	3	5-g Encore	4 C	N
	P001-BBDGA-005-01	P001-BBDGA-005		B	TAL SVOC+Pest+PCB (TAT 3 Days)	Stone	3/26/2025	09:50	2	8 oz glass	4 C	N
	P001-BBDGA-005-01	P001-BBDGA-005		C	Percent Moisture (TAT 3 Days)	Stone	3/26/2025	09:50	1	4 oz glass w/septum	4 C	N
	P001-BBDGA-005-01	P001-BBDGA-005		D	TAL Metals+Hg+CN (TAT 3 Days)	Stone	3/26/2025	09:50	2	8 oz glass	4 C	N
	P001-BBDGA-005-01	P001-BBDGA-005		E	EPH (TAT 3 Days)	Stone	3/26/2025	09:50	1	8 oz glass	4 C	N
	P001-BBDGA-005-01	P001-BBDGA-005		F	SPLP EPH	Stone	3/26/2025	09:50	1	8 oz glass	4 C	N
	P001-BBDGA-005-01	P001-BBDGA-005		G	SPLP VOCs	Stone	3/26/2025	09:50	3	5-g Encore	4 C	N
	P001-BBDGA-005-01	P001-BBDGA-005		H	SPLP SVOCs + Pest+PCBs (TAT 7 Days)	Stone	3/26/2025	09:50	2	8 oz glass	4 C	N
	P001-BBDGA-005-01	P001-BBDGA-005		I	Percent Moisture (SPLP) (TAT 7 Days)	Stone	3/26/2025	09:50	1	4 oz glass w/septum	4 C	N
	P001-BBDGA-005-01	P001-BBDGA-005		J	SPLP Metals+Hg+CN (TAT 7 Days)	Stone	3/26/2025	09:50	2	8 oz glass	4 C	N

Special Instructions: Please email results to S.Sumbaly@WestonSolutions.com and Josh.Frizzell@WestonSolutions.com. TAT for TAL analyses is 3 days. TAT for SPLP analyses is 7 days.

**SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #**

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL SAMPLES ALL ANALYSES	<i>Wm</i> WESTON	0135 3/27/25	<i>CF</i>	0135 3-27-25	IR Out 1 2.1 no custody seal Imp Blank print

USEPA

DateShipped: 3/26/2025

CarrierName: Hand Deliver

AirbillNo: N/a

CHAIN OF CUSTODY RECORD

Site #: 02FP

Contact Name Josh Frizzell

(470) 277-4600

No: 2-032625-0004-0037-01

RFP# 905A

Lab: Alliance Technical Group, LLC - Non
CLP

Lab Phone: 908-728-3144

Lab #	Sample #	Location	CLP Sample #	Tag	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	P001-BBDGA-006-01	P001-BBDGA-006		A	TAL VOCs (TAT 3 Days)	Stone	3/26/2025	09:55	3	5-g Encore	4 C	N
	P001-BBDGA-006-01	P001-BBDGA-006		B	TAL SVOC+Pest+PCB (TAT 3 Days)	Stone	3/26/2025	09:55	2	8 oz glass	4 C	N
	P001-BBDGA-006-01	P001-BBDGA-006		C	Percent Moisture (TAT 3 Days)	Stone	3/26/2025	09:55	1	4 oz glass w/septum	4 C	N
	P001-BBDGA-006-01	P001-BBDGA-006		D	TAL Metals+Hg+CN (TAT 3 Days)	Stone	3/26/2025	09:55	2	8 oz glass	4 C	N
	P001-BBDGA-006-01	P001-BBDGA-006		E	EPH (TAT 3 Days)	Stone	3/26/2025	09:55	1	8 oz glass	4 C	N
	P001-BBDGA-006-01	P001-BBDGA-006		F	SPLP EPH	Stone	3/26/2025	09:55	1	8 oz glass	4 C	N
	P001-BBDGA-006-01	P001-BBDGA-006		G	SPLP VOCs	Stone	3/26/2025	09:55	3	5-g Encore	4 C	N
	P001-BBDGA-006-01	P001-BBDGA-006		H	SPLP SVOCs + Pest+PCBs (TAT 7 Days)	Stone	3/26/2025	09:55	2	8 oz glass	4 C	N
	P001-BBDGA-006-01	P001-BBDGA-006		I	Percent Moisture (SPLP) (TAT 7 Days)	Stone	3/26/2025	09:55	1	4 oz glass w/septum	4 C	N
	P001-BBDGA-006-01	P001-BBDGA-006		J	SPLP Metals+Hg+CN (TAT 7 Days)	Stone	3/26/2025	09:55	2	8 oz glass	4 C	N

Special Instructions: Please email results to S.Sumbaly@WestonSolutions.com and Josh.Frizzell@WestonSolutions.com. TAT for TAL analyses is 3 days. TAT for SPLP analyses is 7 days.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL SAMPLES ALL ANALYSES	 WESTON	3/27/25 0835		8:35 3-27-25	IF Cont 1 2-1" no Custody Seal Intact Twp Blank print

USEPA

DateShipped: 3/26/2025

CarrierName: Hand Deliver

AirbillNo: N/a

CHAIN OF CUSTODY RECORD

Site #: 02FP

Contact Name Josh Frizzell

(470) 277-4600

No: 2-032625-0004-0037-01

RFP# 905A

Lab: Alliance Technical Group, LLC - Non
CLP

Lab Phone: 908-728-3144

Lab #	Sample #	Location	CLP Sample #	Tag	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	P001-BBDGA-007-01	P001-BBDGA-007		A	TAL VOCs (TAT 3 Days)	Stone	3/26/2025	10:00	3	5-g Encore	4 C	N
	P001-BBDGA-007-01	P001-BBDGA-007		B	TAL SVOC+Pest+PCB (TAT 3 Days)	Stone	3/26/2025	10:00	2	8 oz glass	4 C	N
	P001-BBDGA-007-01	P001-BBDGA-007		C	Percent Moisture (TAT 3 Days)	Stone	3/26/2025	10:00	1	4 oz glass w/septum	4 C	N
	P001-BBDGA-007-01	P001-BBDGA-007		D	TAL Metals+Hg+CN (TAT 3 Days)	Stone	3/26/2025	10:00	2	8 oz glass	4 C	N
	P001-BBDGA-007-01	P001-BBDGA-007		E	EPH (TAT 3 Days)	Stone	3/26/2025	10:00	1	8 oz glass	4 C	N
	P001-BBDGA-007-01	P001-BBDGA-007		F	SPLP EPH	Stone	3/26/2025	10:00	1	8 oz glass	4 C	N
	P001-BBDGA-007-01	P001-BBDGA-007		G	SPLP VOCs	Stone	3/26/2025	10:00	3	5-g Encore	4 C	N
	P001-BBDGA-007-01	P001-BBDGA-007		H	SPLP SVOCs + Pest+PCBs (TAT 7 Days)	Stone	3/26/2025	10:00	2	8 oz glass	4 C	N
	P001-BBDGA-007-01	P001-BBDGA-007		I	Percent Moisture (SPLP) (TAT 7 Days)	Stone	3/26/2025	10:00	1	4 oz glass w/septum	4 C	N
	P001-BBDGA-007-01	P001-BBDGA-007		J	SPLP Metals+Hg+CN (TAT 7 Days)	Stone	3/26/2025	10:00	2	8 oz glass	4 C	N

Special Instructions: Please email results to S.Sumbaly@WestonSolutions.com and Josh.Frizzell@WestonSolutions.com. TAT for TAL analyses is 3 days. TAT for SPLP analyses is 7 days.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL SAMPLES ALL ANALYSES	<i>Wu</i> WESTON	3/27/25 0835	<i>OR</i>	8:35 3-27-25	IR Cont #1 2-1 No Custody Seal Temp back print

USEPA

DateShipped: 3/26/2025

CarrierName: Hand Deliver

AirbillNo: N/a

CHAIN OF CUSTODY RECORD

Site #: 02FP

Contact Name Josh Frizzell

(470) 277-4600

No: 2-032625-0004-0037-01

RFP# 905A

Lab: Alliance Technical Group, LLC - Non
CLP

Lab Phone: 908-728-3144

Lab #	Sample #	Location	CLP Sample #	Tag	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	P001-BBDGA-008-01	P001-BBDGA-008		A	TAL VOCs (TAT 3 Days)	Stone	3/26/2025	10:05	3	5-g Encore	4 C	N
	P001-BBDGA-008-01	P001-BBDGA-008		B	TAL SVOC+Pest+PCB (TAT 3 Days)	Stone	3/26/2025	10:05	2	8 oz glass	4 C	N
	P001-BBDGA-008-01	P001-BBDGA-008		C	Percent Moisture (TAT 3 Days)	Stone	3/26/2025	10:05	1	4 oz glass w/septum	4 C	N
	P001-BBDGA-008-01	P001-BBDGA-008		D	TAL Metals+Hg+CN (TAT 3 Days)	Stone	3/26/2025	10:05	2	8 oz glass	4 C	N
	P001-BBDGA-008-01	P001-BBDGA-008		E	EPH (TAT 3 Days)	Stone	3/26/2025	10:05	1	8 oz glass	4 C	N
	P001-BBDGA-008-01	P001-BBDGA-008		F	SPLP EPH	Stone	3/26/2025	10:05	1	8 oz glass	4 C	N
	P001-BBDGA-008-01	P001-BBDGA-008		G	SPLP VOCs	Stone	3/26/2025	10:05	3	5-g Encore	4 C	N
	P001-BBDGA-008-01	P001-BBDGA-008		H	SPLP SVOCs + Pest+PCBs (TAT 7 Days)	Stone	3/26/2025	10:05	2	8 oz glass	4 C	N
	P001-BBDGA-008-01	P001-BBDGA-008		I	Percent Moisture (SPLP) (TAT 7 Days)	Stone	3/26/2025	10:05	1	4 oz glass w/septum	4 C	N
	P001-BBDGA-008-01	P001-BBDGA-008		J	SPLP Metals+Hg+CN (TAT 7 Days)	Stone	3/26/2025	10:05	2	8 oz glass	4 C	N

Special Instructions: Please email results to S.Sumbaly@WestonSolutions.com and Josh.Frizzell@WestonSolutions.com. TAT for TAL analyses is 3 days. TAT for SPLP analyses is 7 days.

**SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #**

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL SAMPLES ALL ANALYSES	<i>[Signature]</i> WESTON	0835 3/27/25	<i>[Signature]</i>	8:35 3/27/25	IF Cont #1 21°C no Custody Seal Temp Blank present

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1664 ROYF02

Order Date : 3/27/2025 10:47:00 AM

Project Mgr :

Client Name : Weston Solutions, Inc.

Project Name : RFP 905

Report Type : Level 4

Client Contact : Smita Sumbaly

Receive DateTime : 3/27/2025 8:35:00 AM

EDD Type : EXCEL NOCLEANUP

Invoice Name : Weston Solutions, Inc.

Purchase Order :

Hard Copy Date :

Invoice Contact : Smita Sumbaly

Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q1664-01	P001-BBDGA-001-01	Solid	03/26/2025	09:30	VOC-TCLVOA-10		8260D	10 Bus. Days	3 Days
Q1664-02	Q1664-01MS	Solid	03/26/2025	09:30	VOC-TCLVOA-10		8260D	10 Bus. Days	
Q1664-03	Q1664-01MSD	Solid	03/26/2025	09:30	VOC-TCLVOA-10		8260D	10 Bus. Days	
Q1664-07	P001-BBDGA-001-02	Solid	03/26/2025	09:30	VOC-TCLVOA-10		8260D	10 Bus. Days	
Q1664-09	P001-BBDGA-002-01	Solid	03/26/2025	09:35	VOC-TCLVOA-10		8260D	10 Bus. Days	
Q1664-11	P001-BBDGA-003-01	Solid	03/26/2025	09:40	VOC-TCLVOA-10		8260D	10 Bus. Days	
Q1664-13	P001-BBDGA-004-01	Solid	03/26/2025	09:45	VOC-TCLVOA-10		8260D	10 Bus. Days	
Q1664-15	P001-BBDGA-005-01	Solid	03/26/2025	09:50					

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1664	ROYF02	Order Date : 3/27/2025 10:47:00 AM	Project Mgr :
Client Name : Weston Solutions, Inc.		Project Name : RFP 905	Report Type : Level 4
Client Contact : Smita Sumbaly		Receive DateTime : 3/27/2025 8:35:00 AM	EDD Type : EXCEL NOCLEANUP
Invoice Name : Weston Solutions, Inc.		Purchase Order :	Hard Copy Date :
Invoice Contact : Smita Sumbaly			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q1664-17	P001-BBDGA-006-01	Solid	03/26/2025	09:55	VOC-TCLVOA-10		8260D	10 Bus. Days	3 days
Q1664-19	P001-BBDGA-007-01	Solid	03/26/2025	10:00	VOC-TCLVOA-10		8260D	10 Bus. Days	
Q1664-21	P001-BBDGA-008-01	Solid	03/26/2025	10:05	VOC-TCLVOA-10		8260D	10 Bus. Days	
					VOC-TCLVOA-10		8260D	10 Bus. Days	

Relinquished By :

Date / Time : 3/27/25 1200

Received By :

Date / Time :

Storage Area : VOA Refridgerator Room